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Part I, List of Patentees

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CONTENTS

| | |
|---|-----------|
| List of Patentees..... | Page 3 |
| List of Reissue Patentees..... | 2197 |
| List of Design Patentees..... | 2205 |
| List of Plant Patentees..... | 2255 |
| List of Defensive Publications (Applicants to whom issued)..... | 2259 |
| List of Disclaimers and Dedications..... | 2265 |

1972

PATENTS ISSUED¹

| | |
|-----------------------------|--|
| Patents..... | 74,808—No. 3,631,539 to No. 3,707,728 inclusive. |
| Reissues..... | 275—No. 27,264 to No. 27,539 inclusive. |
| Designs..... | 2,901—No. 222,793 to No. 225,694 inclusive. |
| Plant Patents..... | 199—No. 3,082 to No. 3,280 inclusive. |
| Defensive Publications..... | 183—No. T896,001 to No. T905,013. |

¹ The number of patents issued during a year may be fewer than the number derived by subtracting the number of the first patent and the last patent due to withdrawals, etc.

1972 LIST OF PATENTEEES

- A & D Fabricating Company, Inc.: *See—*
Hussey, Norman R., 3,661,167.
- A & L Battery & Electric Service, Inc.: *See—*
Aprill, Theophil, Jr.; and Leerkamp, John R., 3,666,104.
- A & T Development Corporation: *See—*
Avril, Arthur C., 3,675,790.
- A. B. Infrarodteknik: *See—*
Nilsson, Hans Erik, 3,654,471.
- A. E. C. Societe de Chimie Organique et Biologique: *See—*
Redel, Joseph; and Boch, Jean Baptiste Christian, 3,676,499.
- A. F. Hydraulics Limited: *See—*
Foster, Keith, 3,667,224.
- A. M. Liaaen A/S: *See—*
Liaaen, Anders M., 3,640,644.
- A. Menarini S.A.S.: *See—*
Ghelardoni, Mario; and Russo, Filippo, 3,651,133.
- A. R. I. Propoflor: *See—*
Harvey, Ronald William Stanley, 3,689,017.
- A. W. Faber-Castell: *See—*
Katz, Otto; and Kranich, Werner, 3,648,891.
- A-T-O Inc.: *See—*
Ault, Wayne E., 3,638,734.
Bovard, Robert M., 3,684,712.
Carter, Sidney T., 3,645,303.
Carter, Sidney T., 3,673,043.
Coolbaugh, Richard W.; and Engels, Floyd W., 3,670,067.
Fechheimer, Paul R.; and Gagliardo, John P., 3,658,100.
Rosenfeld, Howard; and Wetzler, Justin J., 3,686,899.
Sievenpiper, Donald A., 3,654,835.
Sievenpiper, Ward, 3,655,204.
Stevenson, Louis A., Jr., 3,702,472.
Zimmerman, Arthur W., 3,685,586.
- A-T-O Inc., *mesne: See—*
Ruth, Harold C.; and Thompson, James W., 3,698,487.
- A/S Apothekernes Laboratorium for Specialpraeparater: *See—*
Hoff, Erik, 3,660,279.
- A/S Ardal og Sundal Verk: *See—*
Schneider, Paul Adrian, 3,670,971.
- A/S Dansk Lecabeton: *See—*
Kamstrup-Larsen, Harry, 3,690,628.
- A/S Fredriksstad mek. Verksted: *See—*
Wilhelmsen, Jens, 3,705,564.
- A/S Hydraulik Brattvaag: *See—*
Dragsund, Inge Kore; and Naas, Erling M., 3,667,859.
- A/S Kiaettingfabriken: *See—*
Spilhaug, Tor W., 3,685,285.
- A/S Kongsberg Vapenfabrikk: *See—*
Andvig, Tore Anton, 3,642,383.
Ulrichsen, Borre Bengt, 3,644,999.
Westrum, Thorbjorn, 3,661,477.
- A/S Kyllingstad Plogfabrik: *See—*
Bo, Isak T., 3,664,433.
- A/S Modulex: *See—*
Christiansen, Godtfred K., 3,640,017.
- A/S Norcem: *See—*
Stranger-Johannessen, Per, 3,687,807.
- A/S Norsk Kabelfabrik: *See—*
Jacobsen, Arnulv Moe, 3,637,158.
Jacobsen, Arnulv Moe, 3,690,087.
Jacobsen, Arnulv Moe, 3,637,071.
- A/S Norsk Viftefabrikk: *See—*
Hover, Borre, 3,655,961.
Hover, Borre, 3,687,056.
- A/S Raufoss Ammunisjonsfabrikker: *See—*
Eftestol, Bard; and Osteng, Tor, 3,705,256.
Giljarhus, Gunnar; and Vien, Hans, 3,677,181.
Johnsen, Leif, 3,684,820.
- A/S Selvaagbygg: *See—*
Nustad, Per Eirik, 3,675,368.
- Aachtel, Gary D.: *See—*
Brayton, Robert K.; Gustavson, Fred G.; and Aachtel, Gary D., 3,705,409.
- Aagaard, Einar Andreas, to U.S. Philips Corporation. Telecommunication exchange with time division multiplex. 3,632,883, 1-4-72, Cl. 179-15.
- Aagaard, Einar Andreas, to U.S. Philips Corporation. Binary storage circuit arrangement. 3,671,946, 6-20-72, Cl. 340-173.0ff.
- Aagaard, Einar Andreas, to U.S. Philips Corporation. Circuit arrangement for a pulse-controlled connection of a telecommunication signal source to a telecommunication signal load. 3,688,051, 8-29-72, Cl. 179-18.0ff.
- Aagaard, Einar Andreas; Greekes, Johannes Anton; and Van Den Enden, Adrianus Wilhelmus Maria, to U.S. Philips Corporation. Hybrid circuit. 3,700,831, 10-24-72, Cl. 179-176.0nc.
- Aagard, Roger L.; and Schmit, Francis M., to Honeywell Inc. Magneto-optic readout system. 3,705,395, 12-5-72, Cl. 340-174.0yc.
- AAI Corporation: *See—*
Abbott, David D.; and Barr, Irwin R., 3,650,213.
Abbott, David D., 3,672,301.
Barr, Irwin R.; and Schnepfe, Robert W., 3,656,435.
Velazquez, Edward, 3,665,277.
- Aaland, Kristian, to United States of America, Atomic Energy Commission. Magnetic matrix recording system. 3,656,128, 4-11-72, Cl. 340-174.
- Aanstad, Ola J., to Westinghouse Electric Corporation. Controller for a back seated valve. 3,672,628, 6-27-72, Cl. 251-47.000.
- Aarhus Metalemballage Industri: *See—*
Pedersen, Johannes Sigurd, 3,693,398.
- Aarnio, Jaakko. Device for use in film development, fixing, and rinsing troughs with parallel drive rollers. 3,661,067, 5-9-72, Cl. 95-89.
- Aaron, Charles; Mount, Robert E.; and DeGelleke, Gerrit, to Midland-Ross Corporation, *mesne*. Foil separator and rewind machine. 3,680,804, 8-1-72, Cl. 242-67.300.
- Aaron, Herbert S.; and Ferguson, Clyde Parker, Jr., to United States of America, Army. Preparation of 1-acetary-3-(alkyl)6,9-trimethyl-7, 8,9,10-telegraph six dibenzo. 3,694,464, 9-26-72, Cl. 260-345.300.
- Aaron, Joseph E.: *See—*
Hardie, Waldo R.; and Aaron, Joseph E., 3,651,090.
- Aaron, Marvin Robert; Hammett, Warren Gail; and Oberst, James Francis, to Bell Telephone Laboratories, Incorporated. Dual-mode phase-locked loop with dead zone phase detector. 3,697,690, 10-10-72, Cl. 178-69.50r.
- Aaronson, Henry A.; Schwartz, Frank R.; and Sukornick, Bernard, to United States of America, Army. Deterrent coating for propellant grains. 3,636,882, 1-25-72, Cl. 102-104.
- Aarup, Carl P., to Dura Corporation. Coaster vehicle. 3,671,055, 6-20-72, Cl. 280-87.010.
- Aas, Saebjorn; and Brathen, Kare, to Norsk Hydro Verksteder A/S. Gauge cylinder assembly for position indicator and indicator system including such cylinder. 3,654,891, 4-11-72, Cl. 116-124.
- Aasen, T. F.; Hartman, Thomas E.; and Schaffel, Martin, to Copystatics Manufacturing Corporation. Exact length adjustment mechanism for copying machine. 3,706,490, 12-19-72, Cl. 355-13.000.
- Aasen, Torulf, to Copystatics Manufacturing Corporation. Automatic shut-off mechanism for copying machine. 3,673,419, 6-27-72, Cl. 250-222.00r.
- Aasen, Torulf F.: *See—*
Thomas, Herbert P.; Hartman, Thomas E.; and Aasen, Torulf F., 3,639,057.
- Aasen, Torulf F.; Mogil, Bernard; and Sepulveda, William, Jr., to Copystatics Manufacturing Corporation. Document turn-around device for copying machine. 3,700,231, 10-24-72, Cl. 271-64.000.
- Aasted, Kai Christian Sophus. Storing mechanism for use in transferring objects from one conveyor to another. 3,701,406, 10-31-72, Cl. 198-20.000.
- AB Akerlund & Rausing: *See—*
Andersson, Rolf Urban; and Persson, Lennart Gerhard, 3,669,344.
Dilot, Rolf Nagnus, 3,640,188.
Silvandersson, Jonnie Thor-Leif, 3,703,252.
- AB Autoindustri: *See—*
Rex, Gert Ingmar, 3,700,183.
- AB Backtemans Patenter: *See—*
Backteman, Hans Ulrich; and Taylor, Richard John, 3,691,595.

- AB Billingsfors-Langed: See—
Persson, Leif R., 3,674,594.
Persson, Leif Ramon, 3,706,618.
- AB Bolinder-Munktel: See—
Lingert, Birger Valdemar; and Lindblom, Axel Sture, 3,657,551.
- AB C. J. Wennbergs Mekaniska Verkstad: See—
Andersson, Bengt Ivar, 3,650,935.
- AB Cementa: See—
Naredi, Robert Gerhard Franz Josef, 3,637,147.
- AB Centralsug: See—
Ekstrom, Per-Olof; and Hyden, Hans, 3,687,503.
Naumburg, Per; and Norrman, Jan Olof, 3,672,630.
- AB Cold-Bound Pellets: See—
Kihlstedt, Per G., 3,676,104.
- AB Dentatus: See—
Edwardson, Svante Roland, 3,666,245.
- AB Electronic Components Limited: See—
Davies, Gwyn, 3,707,610.
Howitt, Henry Gazeley, 3,676,826.
- AB Elektroverken i Gavle: See—
Algotsson, Sven Erik, 3,654,663.
- AB Emmaboda Glasverk: See—
Nilsson, Leif Billy, 3,690,477.
Nilsson, Leif Billy, 3,693,321.
- AB Ferrosan: See—
Abramo, Aina Lisbeth; Bjorklund, Rolf; Borretzen, Bernt; Olsson, Knut Gunnar; and Sundbeck, Bertil, 3,660,501.
- AB Gitson-System: See—
Kring, Olof; and Yngve, Stig G. J., 3,685,904.
- AB Gustavsbergs Fabriken: See—
Bengtsson, Lars-Erik; and Allander, Claes G., 3,651,524.
Eklund, Sven Erik, 3,701,472.
Schonberg, Emil, 3,687,052.
- AB Gylling & Co.: See—
Eriksson, Lars; and Godhan, Ali, 3,632,435.
- AB Hagglund & Soner: See—
Gelfgren, Erik Hannes Kurt, 3,692,197.
- AB Hydraul-Verken: See—
Eliasson, Kurt Arnold, 3,631,546.
- AB Instrumenta: See—
Nyblom, Nils Goran, 3,677,227.
- AB Inventing: See—
Wallsten, Hans I., 3,659,347.
- AB Jarnforadling: See—
Bylund, Karl Gusten; and Bark, Evert Henry, 3,637,373.
Wennstrom, Elov Algot, 3,650,553.
- AB Kabi: See—
Eriksson, Sven Axel, 3,642,450.
- AB Karlshamns Oljefabriker: See—
Riiner, Ulo, 3,697,294.
- AB Kockum Landsverk Landskrona: See—
Samik, Stanislaw; and Olofsson, Mans Olof, 3,690,099.
- AB Konsulterna for Industri Och Handel: See—
Sundberg, Carl A., 3,653,058.
- AB Ljungmans Verkstader: See—
Eklund, Hans Erik, 3,638,689.
- AB Ludvig Svensson: See—
Bergholtz, Niels Rudolf, 3,650,676.
- AB Purac: See—
Malm, Lars G., 3,659,720.
- AB Spacio System Malmö: See—
Selandier, Bror Olle Herbert, 3,703,147.
- AB Svensk Industris Konstruktions-och Beraknings-Kontor SIKOB: See—
Eriksson, Anders Karl Oskar; and Wallenius, Jan Folke, 3,678,791.
- AB Svensk Industris Konstruktions-och Beraknings-Kontor SIKOB: See—
Stranicky, Fedor, 3,653,576.
Stranicky, Fedor, 3,653,579.
- AB Tico: See—
Frisk, Knot Olov, 3,693,655.
- AB Vibrasug: See—
Folke, Carl Tage Evert, 3,637,977.
- AB Volvo Penta: See—
Bergstedt, Karl Abdon, 3,653,270.
Bergstedt, Karl Abdon, 3,654,889.
- AB Wikstrand & Berg: See—
Wessel, Lars Anton, 3,672,105.
- Abac Corporation: See—
Rossi, Alberto; and Sury, Ernst, 3,647,791.
- Abakanovich, Vadim Vyacheslavovich: See—
Grinchenko, Nikolai Nikolaevich; Abakanovich, Vadim Vyacheslavovich; Goldshtein, Yuri Moiseevich; Gurevich, Grigory Zakharovich; Chepelev, Viktor Gavrilovich; and Kuvshinov, Vladimir Zakharovich, 3,693,077.
- Abakumov, Vladimir Borisovich: See—
Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pyanov, Valentin Nikiforovich; Golovkin, Yuri Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.
- Abar Corporation: See—
Kreider, Benjamin A.; Schmidt, Charles J.; and Martindell, Howard R., 3,698,698.
- Abardovsky, Isaak Pavlovich; and Gertsman, Lev Alexandrovich. Unit for calendaring pipes and extracting cores therefrom in a machine for producing fibrocement pipes. 3,671,387, 6-20-72, Cl. 162-284.000.
- Abarotin, Eugene V.; Nicely, Thomas E.; and Wilshire, Robert A., Jr., to United States Steel Corporation. Apparatus for withdrawing a casting from a mold. 3,650,315, 3-21-72, Cl. 164-274.
- Abbate, Ronald A., Jr.; and Fried, Stewart J., to International Playtex Corporation. Detent mechanism for a cabinet having a pull-out drawer. 3,658,398, 4-25-72, Cl. 312-333.000.
- Abbe, Lucien; and Sachs, Charles, to Commissariat a l'Energie Atomique. Syringe-supporting device for centrifuges. 3,648,927, 3-14-72, Cl. 233-926.
- Abbe, Robert C., to ADE Corporation. Coupled inductance impedance measuring circuit with increased sensitivity and frequency independence. 3,694,741, 9-26-72, Cl. 324-60.00c.
- Abbe, Robert C., to ADE Corporation. Capacitive gauge. 3,706,919, 12-19-72, Cl. 317-246.000.
- Abbey, Henry. Coaster arrangement. 3,633,863, 1-11-72, Cl. 248-346.1.
- Abbey, Nelson D.: See—
Vassar, Clyde W., 3,705,458.
- Abbot, Charles G. Apparatus for converting solar energy to low cost power. 3,654,759, 4-11-72, Cl. 60-26.
- Abbot, Charles G. Unlimited quantity of power from solar radiation secured with zero atmospheric pollution. 3,670,717, 6-20-72, Cl. 126-270.
- Abbot, Earl: See—
Lickliter, Robert Paul; Abbot, Earl; and Reeves, John F., 3,638,465.
- Abbott, Augustus E., to United States of America, Atomic Energy Commission. Laminated plastic propeller. 3,706,511, 12-19-72, Cl. 416-229.000.
- Abbott, Austin C., Jr., to Sherwin-Williams Company. The. Fire retardant polyesters and articles made therefrom. 3,642,944, 2-15-72, Cl. 260-864.
- Abbott, Bobby R. Collapsible stool. 3,638,588, 2-1-72, Cl. 108-128.
- Abbott Coin Counter Co., Inc.: See—
Conant, Barton C.; and Thomas, James A. (said Conant assor. to), 3,699,981.
- Abbott, Colin E., to Mining & Chemical Products Limited. Thermoelectric device having parallel circuits interconnected at equal potential points. 3,632,451, 1-4-72, Cl. 136-203.
- Abbott, David D.; and Barr, Irwin R., to AAI Corporation. Frangible filled-projectile ammunition. 3,650,213, 3-21-72, Cl. 102-38.
- Abbott, David D., to AAI Corporation. Cartridge. 3,672,301, 6-27-72, Cl. 102-39.000.
- Abbott, Dominic C.; and Chen, Godfrey, said Abbott, Dominic C., assor. to Abbott Tresses Inc. Method of making precut and preset wig and pre-cut and preset wig. 3,678,942, 7-25-72, Cl. 132-5.000.
- Abbott, Earl: See—
Lickliter, Robert Paul; Abbott, Earl; and Reeves, John F., 3,675,957.
- Abbott, Frank R., to United States of America, Navy. Low frequency electroceramic sonar transducer. 3,659,258, 4-25-72, Cl. 340-10.000.
- Abbott, Frank R., to United States of America, Navy. Ferroelectric ceramic stack. 3,700,939, 10-24-72, Cl. 310-9.800.
- Abbott, Franklin Paul, to Lubrizol Corporation. The. Lubricants containing oil-soluble graft polymers derived from degraded ethylene-propylene interpolymers. 3,687,849, 8-29-72, Cl. 252-47.500.
- Abbott, John A.; and Watson, Clyde D., to FMC Corporation. Method for continuous preparation of tobacco. 3,704,716, 12-5-72, Cl. 131-140.00p.
- Abbott, John F. Remote controlling device. 3,651,507, 3-21-72, Cl. 340-323.
- Abbott Laboratories: See—
Bernstein, Edith; Garmaise, David Lyon; and Plotnikoff, Nicholas Peter, 3,687,960.
Bernstein, Edith; Garmaise, David Lyon; and Plotnikoff, Nicholas Peter, 3,687,961.
Cambio, Orlando D., Jr., 3,667,638.
Chittenden, Richard Marion; Whitton, Alden William; Macalalad, Fidel Villaluna; Massman, Richard; and Wilson, Earl David, 3,690,315.
Cole, John Wayne; and Hallas, Robert, 3,686,187.
Crovetti, Aldo J.; and Winn, Martin, 3,663,623.
Crovetti, Aldo Joseph, 3,632,859.
Crovetti, Aldo Joseph; and Von Esch, Anne Mary, 3,651,054.
Crovetti, Aldo Joseph; Germann, Richard Paul; and Blank, Arthur, 3,657,353.
Donahoe, Joseph F.; and Macalalad, Fidel V., 3,693,612.

- Ebergardt, Thomas; and Welch, William H., 3,655,083.
- Esch, Anne Mary Von, 3,681,326.
- Freiberg, Leslie Alan, 3,681,325.
- Garmaise, David L., 3,652,574.
- Garmaise, David Lyon; Paris, Gerard Yvon; and Plotnikoff, Nicholas Peter, 3,705,902.
- Goldstein, Alma W.; and Prokop, Joseph F., 3,651,217.
- Hallas, Robert; and Cole, John Wayne, 3,691,176.
- Harrigan, Robert Emmet, 3,645,262.
- Hirner, Robert Eugene, 3,669,902.
- Horrom, Bruce Wayne; and Wright, Howard Bernard, 3,637,705.
- Horrom, Bruce Wayne, 3,649,618.
- Horrom, Bruce Wayne; and Crovetti, Aldo Joseph, 3,652,670.
- Horrom, Bruce Wayne, 3,689,504.
- Johnson, Robert Phillip, 3,636,201.
- Jones, Peter Hadley; and Iyer, Kishori S., 3,701,770.
- Katerndahl, Dean R.; Wilson, Earl D.; Macalalad, Fidel V.; and Ring, Gene C., 3,698,396.
- Knox, Kenneth H.; and Ries, Robert J., 3,664,338.
- Kurath, Paul, 3,674,773.
- Kurath, Paul; Egan, Richard Stephan; and Jones, Peter Hadley, 3,681,323.
- Kurath, Paul; and Egan, Richard Stephan, 3,697,547.
- Lee, Cheuk Man, 3,681,367.
- Lex, Charles George, 3,651,048.
- Lynch, Don Murl; and Cole, John Wayne, 3,681,436.
- Martin, Jerry Roy, 3,684,794.
- McFarland, Otho K.; and Tamburrino, James F., 3,678,375.
- McFarland, Otho K.; Illich, George M., Jr.; and Ling, Wilfred C., 3,689,222.
- Michaels, Raymond John, Jr.; and Zaugg, Harold Elmer, 3,663,549.
- Micheli, William Richard, 3,657,286.
- Paris, Gerard Y.; and Garmaise, David L., 3,654,289.
- Plotnikoff, Nicholas Peter, 3,699,229.
- Plotnikoff, Nicholas Peter, 3,666,859.
- Plotnikoff, Nicholas Peter, 3,686,409.
- Plotnikoff, Nicholas Peter, 3,689,643.
- Plotnikoff, Nicholas Peter, 3,689,644.
- Plotnikoff, Nicholas Peter; Dren, Anthony Thomas; and Jochimsen, William George, 3,706,831.
- Post, Gerald George, 3,637,654.
- Pride, Emanuel; and Warren, Brian, 3,677,707.
- Prillig, Elliott, 3,639,565.
- Scislowicz, Henry M., 3,672,367.
- Swett, Leo Ralph, 3,657,271.
- Swett, Leo Ralph; and Ratajczyk, James Daniel, 3,665,008.
- Swett, Leo Ralph; and Ratajczyk, James Daniel, 3,669,983.
- Swett, Leo Ralph; Ratajczyk, James Daniel; and Young, Patrick Richard, 3,686,171.
- Swett, Leo Ralph; and Paris, Gerard Yvon, 3,701,785.
- Von Esch, Anne Mary; and Crovetti, Aldo Joseph, 3,660,390.
- Wilson, Earl D.; and Ellmann, Norbert W., 3,654,924.
- Winn, Martin, 3,681,368.
- Yellin, Tobias O., 3,635,971.
- Abbott Machine Co., Inc.: See—
Abbott, Samuel L., 3,642,216.
Abbott, Samuel L., 3,695,548.
- Abbott, Malcolm K.; and Dowdy, David A., to Bendix Corporation. The. Diaphragm trimmer. 3,677,118, 7-18-72, Cl. 83-211.000.
- Abbott, Matthew C.; Ashley, Albert H.; and Garrigus, Kenneth A., to GTE Sylvania Incorporated. Limiter circuit. 3,666,970, 5-30-72, Cl. 307-237.000.
- Abbott, Norman Basil; and Chapman, Charles Brian, to Imperial Chemical Industries Limited. Thermally reversible polyester polyurethanes. 3,684,769, 8-15-72, Cl. 260-75.00k.
- Abbott, Paul, Company, Inc.: See—
Green, Edgar E.; and Nuckols, Phillip H., 3,669,195.
- Abbott, Paul Douglas. Elevator starting. 3,658,156, 4-25-72, Cl. 187-29.
- Abbott, Peter Charles Terence: See—
Raynor, Terence Robert; and Abbott, Peter Charles Terence, 3,702,455.
- Abbott, Randle Leslie. Lubrication system for change-speed epicyclic gearing. 3,650,353, 3-21-72, Cl. 184-6.12.
- Abbott, Robert Plowden, to Bell Telephone Laboratories, Incorporated. Recovery of horizontal sync pulses from a composite synchronizing format. 3,671,669, 6-20-72, Cl. 178-7.30s.
- Abbott, Roderic M. Removable dolly wheel for boat. 3,687,476, 8-29-72, Cl. 280-47.320.
- Abbott, Roy W., to General Electric Company. Gas-fired heater means. 3,670,713, 6-20-72, Cl. 126-110.00r.
- Abbott, Samuel L., to Abbott Machine Co., Inc. Device for applying tension to a running yarn. 3,642,216, 2-15-72, Cl. 242-35.5.
- Abbott, Samuel L., to Abbott Machine Co., Inc. Tensioning device for yarn packaging machinery. 3,695,548, 10-3-72, Cl. 242-150.000.
- Abbott, Terence Arnold: See—
Shephard, Robert Basil; Clachan, Margaret Loudon; Kennedy, David Rankine; and Abbott, Terence Arnold, 3,674,531.
- Abbott, Thomas I., to Eastman Kodak Company. Diffusion transfer film unit with improved dye image receiving layer comprising a basic polymeric mordant. 3,698,896, 10-17-72, Cl. 96-3.000.
- Abbott Tresses Inc.: See—
Abbott, Dominic C.; and Chen, Godfrey (said Abbott, Dominic C., assor. to), 3,678,942.
- Abbott, William H., to Battelle Memorial Institute. Low energy contacts. 3,661,569, 5-9-72, Cl. 75-165.
- Abbotts, William Edward, to Solartron Electronic Group Limited. The. Methods and apparatus for measuring the densities of fluids. 3,648,512, 3-14-72, Cl. 73-32.
- ABC Packaging Machine Corporation: See—
Cobelo, Vincent, Jr., 3,635,129.
Reichert, Donald G.; and Pasteris, John A., 3,634,996.
- Abcor, Inc.: See—
Cooper, William W., IV; and Shea, Edward M., 3,676,193.
Nuwayser, Elie S., 3,687,129.
Nuwayser, Elie S., 3,703,896.
- Abcor Water Management Company, Inc., mesne: See—
Hoffman, Robert R., 3,643,805.
Shaines, Alfred; Kalish, Robert L.; and Hamer, Edward A. G., 3,695,964.
- Abdallah, Abdulmunim H., to Dow Chemical Company. The. Triazine anorectic method. 3,646,204, 2-29-72, Cl. 424-249.
- Abdo, Joseph T. Slide valve. 3,701,365, 10-31-72, Cl. 137-625.430.
- Abdullah, Mukhtar: See—
Armbruster, Frederick C.; and Abdullah, Mukhtar, 3,652,398.
- Abdullah, Mukhtar, to CPC International Inc. Production of high maltotetraose syrup. 3,654,082, 4-4-72, Cl. 195-31.
- Abe, Arimichi: See—
Matsumoto, Jiro; Takeuchi, Masatoshi; Abe, Arimichi; and Sengoku, Koji, 3,673,010.
- Abe, Fujio; and Crawford, Clifford R., to Burlington Industries, Inc. Data monitoring system. 3,648,026, 3-7-72, Cl. 235-92.
- Abe, Hideki: See—
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Kojima, Kiyoshi; and Abe, Toshiro, 3,665,340.
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- Abell, Kendrick M. Test scoring method and apparatus. 3,631,611, 1-4-72, Cl. 35-48.
- Abell, Richard S.; and Privon, George T., to Carrier Corporation. Motor compressor unit. 3,689,207, 9-5-72, Cl. 417-363.000.
- Abell, Roy F., Jr., to Eaton Corporation. Hydraulic valve lifter. 3,704,696, 12-5-72, Cl. 123-90.330.
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Hartmann, Sven R.; Kurnit, Norman A.; and Abella, Isaac D., 3,638,029.
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Einerson, Amos M.; Schauer, Frank N.; and Abelle, Thomas G., 3,684,400.
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Nevarez, Richard J., 3,669,401.
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- Abercrombie, Jonathan C., to General Electric Company. Latch device. 3,704,906, 12-5-72, Cl. 292-247.000.
- Aberer, James B.; Mead, Bill G.; and Farkas, Joseph J., to Rival Manufacturing Company. Can opener with removable hand lever. 3,688,400, 9-5-72, Cl. 30-4.00r.
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Ehrhardt, Gerry H.; and Abernathy, Timothy G., 3,658,998.
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Adams, Cecil E., 3,636,977.
- Adams, Cecil E.; and Dillon, Leo H., 3,650,291.
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- Born, Ellis H., 3,633,809.
- Bortz, Seymour A.; Shipley, Linden E.; and Haughwout, Lefferd B., 3,689,614.
- Bradshaw, Clayton H., 3,685,623.
- Coakley, James L., 3,678,951.
- Coakley, James L., 3,691,767.
- Graham, Glenn R.; and Biggs, Robert W., 3,695,406.
- Keller, Emil C.; and Spokes, Raymond E., 3,673,276.
- Knapp, Kenneth K., 3,654,837.
- Kohler, William H., 3,640,586.
- Mac Keigan, Thomas H., 3,685,160.
- Novotny, Raymond J., 3,632,130.
- Novotny, Raymond J., 3,664,584.
- Ratkowski, Thomas A., 3,685,178.
- Sarbach, Ronald A.; and Porter, Richard E., 3,633,026.
- Walker, Colin Graham; Leadbeater, Edward John; Darlington, Ralph Fredrick; Traczyk, Edmond Michael; and Kubilos, Charles A., 3,665,809.
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Fullam, John Peter, 3,643,522.
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Leister, Gerhard, 3,699,855.
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United States of America, National Aeronautics and Space Administration, 3,700,334.

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Kasargod, Sadanand Vithal; and Abhyankar, Shreeniwas Shankar, 3,644,767.
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Deman, Heiko T., 3,689,185.
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Dyre, Mogens; and Abildtrup, Jorgen, 3,691,346.
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Vemuri, Krishna P., 3,691,153.
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Abkowitz, Stanley; Siergiej, John M.; and Regan, Ronald D., 3,700,434.
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Brandstrom, Arne Elov; Carlsson, Per Arvid Emil; Carlsson, Stig Ake Ingemar; Corrodi, Hans Rudolf; Ek, Lars; Lamm, Bo Robert; and Ablad, Bengt Arne, 3,674,840.
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Zernov, Peter; Gabel, Thomas H.; and Abler, Norman C., 3,667,751.
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Strand, David L.; and Abler, Roger L., 3,650,956.
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Stowell, Keith Christopher; and Howlett, Peter Michael, 3,647,473.
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- Abney, Thomas M. Arithmetic cards and game utilizing such. 3,661,392, 5-9-72, Cl. 273-152.1.
- Abolafia, Oscar R.; Butora, John A.; and Orinik, Michael T., to International Business Machines Corporation. Process for forming a microporous cellular polyimide. 3,705,118, 12-5-72, Cl. 260-2.50n.
- Abolins, Visvaldis, to General Electric Company. Glass reinforced polyester resins containing polytetrafluoroethylene and other flame retardant additives. 3,671,487, 6-20-72, Cl. 260-40.00r.
- Abos, Ralph L., to Ecom-Systems, Inc., mesne. Diverter valve. 3,690,565, 9-12-72, Cl. 239-447.000.
- Aboul-Saad, Ibrahim Ahmed, to Du Pont de Nemours, E. I., and Company. Pad-acid steam nylon-cotton blend with acid and vat dyes. 3,653,801, 4-4-72, Cl. 8-21.
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Unick, Alvin J.; and Abowd, Richard G., Jr., 3,650,711.
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- Abraham, Anton, 1/2 to Wiener Kammfabrik Anton Abraham Konim. Ges. Hair securing means, particularly a hair-clasp or barrette, or a hair-comb with such securing means. 3,645,278, 2-29-72, Cl. 132-48.
- Abraham, Bruce C.; Fegley, Charles R.; and Lougher, George B., III, to Western Electric Company, Incorporated. Article handling with fluid ejection. 3,674,141, 7-4-72, Cl. 209-74.000.
- Abraham, Dennis G.; and Pawletko, Joseph P., to International Business Machines Corporation. Stepping motor control system using pulse injection. 3,694,725, 9-26-72, Cl. 318-685.000.
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Cleary, John P.; and Abraham, Schulkin, 3,695,172.
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- Abrahams, Joseph L., to Rock Fall Company Limited. Method of rock drilling and apparatus for use therein. 3,703,212, 11-21-72, Cl. 175-173.000.
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Waters, James L.; Abrahams, Louis; and Hutchins, Burleigh M., Jr., 3,674,373.
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- Abrahamsson, Sixten. Time interval generating apparatus. 3,651,486, 3-21-72, Cl. 340-172.5.
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Reck, Richard A.; and Abramitis, Walter W., 3,683,010.
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- Abrams, Harvey W. Traffic marker having gravity switch controlled. 3,660,817, 5-2-72, Cl. 340-114.
- Abrams, Paul S.; and Peterson, Rudolph G., to Carco, Inc. Marking device. 3,653,596, 4-4-72, Cl. 239-93.
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- Abramson, Aaron L. Time coded, coin control gate system. 3,641,314, 2-8-72, Cl. 235-61.8.
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Nadir, Mark T.; and Abramson, Carl N., 3,646,273.
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Griffiths, Wilfred, 3,639,958.
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Field, Anthony Gerard, 3,640,023.
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- Abriss, Murray S. Method for stabilizing latices. 3,640,935, 2-8-72, Cl. 260-29.6.
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Cotter, John J.; and Abronson, Charles J., 3,684,983.

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Abruzzi, Pierluigi: See—
Vargiu, Silvio; Pitzalis, Mario; and Abruzzi, Pierluigi, 3,705,116.

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Stihl, Andreas; Abt, Ewald; and Rauh, Albrecht, 3,651,839.

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Borgstrom, Gote Ingvar, 3,675,847.

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Okamoto, Tosiaki; Mori, Koziro; Yamazaki, Hayao; Abu, Takao; and Sato, Takefumi, 3,706,971.

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Christie, John B.; Abuls, Dzintars; and Van Breukelen, Wilfridus G., 3,637,993.

Abura, Yoshinori: See—
Wada, Yukio; and Abura, Yoshinori, 3,701,882.

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Knack, John W., Sr., 3,649,152.

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Kravitz, Harley A., 3,659,762.

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Pearce, Douglas Henry, 3,697,032.

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Conley, Larry R., 3,660,631.

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Caplan, Stanley J., 3,642,625.

Accum-Matic Systems, Inc.: See—
Broser, Richard, 3,687,275.

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Sassmannshausen, Guenter; and Lahme, Norbert, 3,701,691.

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Bajusz, Harold F., 3,672,783.

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Ellis, Larry C.; Chorkey, William J.; and Heideman, Robert J., 3,666,256.

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De Woody, Charles M., 3,695,642.

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Shalders, Alan John, 3,635,315.

Shalders, Alan John, 3,659,677.

Ace Tool Engineering Co., Inc.: See—
Milovich, Walter E., 3,686,787.

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Frantz, Franklin D.; Acello, Salvatore J.; and Geller, Harold I., 3,670,091.

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Van Der Meer, Samuel; Kruyt, Willem; and Pouwels, Hendrik, 3,662,035.

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Bickhaus, James T.; and Carlson, Harold A., 3,680,846.

Carle, Ross C., 3,701,322.

Carney, John L., Jr.; and Schipper, Dennis J., 3,659,752.

Casey, Edward H.; and Bickhaus, James T., 3,652,065.

Coyle, Edward L.; Josephson, Edgar F.; and Schipper, Dennis J., 3,694,925.

Dare, Roy R.; and Carney, John L., Jr., 3,639,007.

Dugge, Richard H.; and Smith, Garth R., 3,656,666.

Dugge, Richard H.; and Carney, John L., Jr., 3,691,611.

Dugge, Richard H.; and Carney, John L., Jr., 3,701,460.

Grover, George M.; and Coyle, Edward L., 3,686,040.

Kalst, Manmohan S., 3,706,320.

Kunz, Eugene L.; and Bolte, Ronald P., 3,650,293.

Lazar, Jeffrey Michael, 3,655,170.

Nelson, Norman A., 3,640,299.

Nelson, Norman A., 3,658,087.

O'Leary, Walter E.; Thornton, Duane V.; Hammonds, James C.; and Dare, Roy R., 3,678,866.

O'Leary, Walter E.; and Charles, Asa Franklin, 3,687,084.

O'Leary, Walter E.; and Thornton, Duane V., 3,693,554.

Randolph, Robert W., 3,661,275.

Randolph, Robert W.; and Terlecky, Boris S., 3,662,899.

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Thornton, Duane V., 3,670,664.

Vicari, Felix J., 3,706,321.

Yurkoski, Frank R.; Coyle, Edward L.; Needham, Robert F.; and Rollins, Dallas W., 3,687,087.

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Muller, Reiner; and Achelpohl, Fritz, 3,680,770.

Schwarzkopf, August; and Achelpohl, Fritz, 3,644,163.

Achelpohl, Fritz, to Windmoller & Holscher. Conveying apparatus. 3,636,828, 1-25-72, Cl. 93-93.

Acher, Heinz: See—
Traube, Klaus; and Acher, Heinz, 3,632,471.

Achermann, Franz: See—
Achermann, Werner; and Achermann, Franz, 3,669,067.

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Goodricke, John Charles, 3,672,571.

A.C.I. Operations Pty., Limited: See—
Barton, Patrick William, 3,700,470.

Corderoy, Henry M., 3,678,647.

Corderoy, Henry Morgan, 3,651,614.

Corderoy, Henry Morgan, 3,694,994.

Acker, Jacob, & Sohne oHG: See—
Acker, Josef; Hofmann, Albert; and Fruhholz, Georg, 3,696,845.

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Goldstein, Murray S.; Lerman, Harold; Acker, Robert; and Ross, Herbert S., 3,680,355.

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Ackerfeldt, Bo Ingemar, to USNR Forest Industries, Inc. Log adjusting and aligning device. 3,665,984, 5-30-72, Cl. 143-157.

Ackerman, Alfred J.: See—
Carrock, Frederick E.; Doak, Kenneth W.; and Ackerman, Alfred J., 3,660,534.

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Strianese, Bernard V., 3,638,009.

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Weisfeld, Joseph; Tringali, Alfred M.; Ackerman, Joseph F.; and Bernardo, Joseph J., 3,650,997.

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Ackermann, Hans: See—
Meindl, Hubert; Ackermann, Hans; and Von Kaenel, Fred, 3,655,665.

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Paleologo, Teo; and Ackermann, Jacob, 3,632,655.

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Ackermann, Karl-Heinz: See—

Moser, Wilhelm; Ariendorf, B. Honningen; Wirks, Wilhelm; and Ackermann, Karl-Heinz, 3,680,798.

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Ackermann, Walter Thomas; and Daley, Thomas Joseph, to Scovill Manufacturing Company. Guide for sewing invisible fasteners. 3,703,148, 11-21-72, Cl. 112-150.000.

Acket, Gerard Adriaan; and Vlaardingerbroek, Marinus Teunis, to U.S. Philips Corporation. Semiconductor device for amplifying microwaves. 3,648,185, 3-7-72, Cl. 330-5.

Ackilli, Joseph Anthony: See—
Cahn, Arno; Ackilli, Joseph Anthony; and Carroll, Frank Emery, 3,649,543.

Ackley, James W., to Varian Associates. Large area sputtering target electrode structure. 3,649,512, 3-14-72, Cl. 204-298.

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Ackrell, Jack: See—
Edwards, John A.; and Ackrell, Jack, 3,707,490.

Ackroyd, Harry Briggs, to Scot Meat Products Limited. Production of cooked meats. 3,638,554, 2-1-72, Cl. 99-107.

Ackroyd, Ronald Tunstall; and Perks, Maurice Arthur, to United Kingdom Atomic Energy Authority. Nuclear reactors. 3,660,227, 5-2-72, Cl. 176-17.

Acle, Luis, Jr.: See—
Boram, William R.; and Acle, Luis, Jr., 3,700,649.

Acme Electric Corporation: See—
Archer, William A.; Randall, Ronald H.; and Lewis, Richard M., 3,668,508.

Acme Engineering Company, Inc.: See—
Ames, Richard H.; and Williams, Andrew W., 3,682,177.

Acme General Corporation: See—
Ramsey, Joe B., 3,688,915.

Acme Highway Products Corporation: See—
Berchou, William J., 3,645,176.

Kerschner, James J., 3,682,053.

Sharpe, James F., 3,667,105.

Wicks, Harry O., III, 3,699,853.

Acme Manufacturing Company, Inc.: See—
Herrett, Wilfred H., 3,683,829.

Acme Marls Limited: See—
Lovatt, William John, 3,681,817.

Acme Maschinenfabrik GmbH: See—
Faure, Robert, 3,670,458.

Acme Precision Products, Inc.: See—
McCarroll, Raymond A., 3,663,064.

Acme Products Incorporated: See—
Stanfield, Howard E.; Stanfield, Gary W.; and Camp, George F., 3,693,800.

Acme Spring Company: See—
Swatt, Leonard W., 3,644,946.

Acme Visible Records, Inc.: See—
Tomlinson, Charles W., 3,672,663.

Wilson, George, 3,658,170.

Acme-Hamilton Manufacturing Corporation: See—
Bauman, Joseph F.; Kurtz, Edward, Jr.; Cini, Adrian V.; and Antrobus, Robert E., 3,640,312.

Bauman, Joseph F.; and Elson, Arthur M., 3,688,802.

Acorn Products Company: See—
DiFazio, Joseph, 3,698,883.

Acoustifone Corporation: See—
Mackey, Richard C.; and Neill, W. James, 3,667,569.

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Dixon, Brook, 3,636,257.

Acrodyn Industries, Incorporated: See—
Ostroff, Nathaniel S.; and Rose, Willie, 3,667,049.

Acron Corporation: See—
Cohen, Herbert L., 3,703,607.

ACS Industries, Inc.: See—
Walterscheid, Ted B., 3,656,183.

- Action Film, Inc.: See—
Skinner, James R.; Uitz, Mark O.; and Hait, Paul W., 3,706,439.
- Activated Sludge Limited: See—
Branton, Eric Sidney, 3,700,197.
- Active Garage Builders, Inc.: See—
Monroe, Donald G., 3,636,673.
- Actmedia, Inc., mesne: See—
Hedu, Jon, 3,677,570.
- Acton, Daniel D.: See—
Risch, William E.; and Acton, Daniel D., 3,637,101.
- Acton, Edward M.; Leafer, Morris A.; and Stone, Herbert, to Stanford Research Institute. 8,9-Epoxyperillartine sweeteners. 3,699,132, 10-17-72, Cl. 260-348.00r.
- Acton, Hugh C.; and Fink, Roy W., to Tartan Corporation. Seat construction. 3,695,693, 10-3-72, Cl. 297-239.000.
- Acton Research Corporation: See—
Flint, Bruce K., 3,698,795.
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- Actron Industries, Inc.: See—
Forys, Edward Louis; Lofftus, Leroy A.; Malueg, Richard Milton; and Montalbano, Albert F., 3,703,999.
- Acu-Tech Corporation: See—
Ayres, John E., 3,647,121.
- Acushnet Company: See—
Le Goff, Loman H., 3,675,698.
Woolley, Edward R.; and Thompson, William H., 3,695,618.
- Aczel, Rezso: See—
Cohen, Edward M.; Grabowski, Edward J. J.; and Aczel, Rezso, 3,670,083.
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Komatsu, Fumito; and Adachi, Goro, 3,691,286.
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- Adachi, Iwao P., to Itek Corporation. Optical surface generating apparatus. 3,669,867, 6-13-72, Cl. 204-224.000.
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- Adachi, Kikbo: See—
Tsuno, Shigeru; Horisaka, Kazuyoshi; Yamaguchi, Akiyuki; Adachi, Kikuo; and Umezawa, Osamu, 3,658,966.
- Adachi, Kiyoshi: See—
Ozawa, Goro; Kosaka, Kenzo; Adachi, Kiyoshi; Okaya, Tsutomu; and Arikki, Takeo, 3,656,214.
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Baba, Nobuyoshi; Adachi, Makoto; and Nagata, Hideo, 3,689,232.
- Adachi, Michio: See—
Sakamoto, Toshikazu; and Adachi, Michio, 3,687,495.
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Iwai, Tadashi; Yamashina, Hisao; Takagi, Tettsu; and Adachi, Shoichi, 3,697,386.
- Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Circuit for rapid note passage in electronic musical instrument. 3,651,729, 3-28-72, Cl. 84-91.17.
- Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Sound level control device in electronic musical instrument employing touch responsive keying means. 3,651,730, 3-28-72, Cl. 84-1.24.
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- Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Monophonic electronic musical instrument with a variable frequency oscillator employing positive feed back. 3,659,031, 4-25-72, Cl. 84-1.01.
- Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Keying system capable of producing piano-tone effects for use in electronic musical instruments. 3,697,662, 10-10-72, Cl. 84-1.130.
- Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Muscular voltage-controlled tone modifying system for electronic musical instrument. 3,699,234, 10-17-72, Cl. 84-1.240.
- Adachi, Teruho, to Sumitomo Chemical Company, Ltd. Preparation of aromatic polyamides by interfacial polycondensation. 3,663,517, 5-16-72, Cl. 260-78.
- Adachi, Toshio; Onishi, Masayoshi; and Hayashi, Kiyohide, to Daido Seiko Kabushiki Kaisha. Electrical transfer type plasma arc melting furnace. 3,671,655, 6-20-72, Cl. 13-1.000.
- Adachi, Toshio; Hayashi, Kiyohide; and Okura, Yukio, to Daido Seiko Kabushiki Kaisha. Ingot casting apparatus. 3,700,026, 10-24-72, Cl. 164-256.000.
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- Adaev, Evgeny Ivanovich; Blinov, Alexandr Vasilievich; and Kamarian, Georgy Mikirtychevich. Device for setting cathodes in electrolyzers. 3,645,878, 2-29-72, Cl. 204-243.
- Adaev, Evgeny Ivanovich; Blinov, Alexander Vasilievich; Kamaria, Georgy Mikirtychevich; Alexandrovich, Novoselov Viktor; and Yakimenko, Leonid Markovich. Templet hat method for assembling cathode caps electrolyzer for molten salts. 3,685,121, 8-22-72, Cl. 29-203.00j.
- Adage, Inc.: See—
Lucas, Paul G.; and Talambiras, Robert P., 3,634,659.
- Adaglio, Marie-Francoise. Warning device for cylinders for liquefied gas under pressure. 3,640,241, 2-8-72, Cl. 116-109.
- Adahan, Carmeli, to Singer Company, The. Keyboard assembly. 3,702,449, 11-7-72, Cl. 335-206.000.
- Adahan, Carmeli. Fluid control valve. 3,704,727, 12-5-72, Cl. 137-625.650.
- Adair, Edwin Lloyd. Retention catheter and suprapubic shunt. 3,692,029, 9-19-72, Cl. 128-349.00r.
- Adair, James Richard, to United Engineering and Foundry Company. Rotatable mandrel. 3,658,274, 4-25-72, Cl. 242-72.1.
- Adair, Michael H.: See—
Ingram, Gordon B., 3,651,736.
Wer Bell, Mitchell L., III, 3,667,570.
- Adair, Raymond K. S. Overshoe for golf. 3,643,352, 2-22-72, Cl. 36-7.3.
- Adair, Robert S., to United States of America, Navy. Vertical reference pendulum. 3,675,549, 7-11-72, Cl. 95-1.100.
- Adam, Georges Clement. Cable clamping device. 3,638,172, 1-25-72, Cl. 339-249.
- Adam, Karl: See—
Fuerst, Ernst; Adam, Karl; Hoffmann, Herwig; Pilch, Kurt; Winderl, Siegfried; and Sanne, Walter, 3,649,627.
- Adam, Macedon Emil: See—
Szumilas, Wladislaw; Adam, Macedon Emil; Lata, Ilie; and Muresan, Gheorghe, 3,685,793.
- Adam, Marie Henri Hubert. Discharge tube assembly. 3,646,340, 2-29-72, Cl. 240-11.4.
- Adam, Robert; and Keefe, Dayle. Setting device for a boring tool. 3,673,694, 7-4-72, Cl. 33-185.00r.
- Adam, Vernon F.; and Vogel, Carl A. Trailer for erecting and transporting storage tanks. 3,687,319, 8-29-72, Cl. 214-501.000.
- Adamant Laboratories (Proprietary) Limited: See—
Pope, Noel C.; Kempis, Edward B.; and O'Donovan, Kevin H., 3,642,412.
- Adamas Carbide Corporation: See—
Scheyer, Gerard, 3,654,374.
- Adamczyk, Marion F. Holder for feeding punched tape. 3,682,405, 8-8-72, Cl. 242-55.000.
- Adamek, John A.: See—
Turner, Lyman H.; and Adamek, John A., 3,671,094.
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- Adamik, Jaroslav F. Slush molding machine. 3,652,193, 3-28-72, Cl. 425-214.
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Muselik, Miloslav, 3,685,445.
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- Adamowicz, Norman C.: See—
Clauss, Richard J.; and Adamowicz, Norman C., 3,689,380.
- Adams & Westlake Company, The: See—
Krizman, Theodore M.; and Emmons, Clayton M., 3,668,576.
- Adams, Aaron W., Jr.: See—
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- Adams, Albert John. Vehicle seat support. 3,700,203, 10-24-72, Cl. 248-419.000.
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- Adams, Archibald H., to Gulf Oil Corporation. Method of manufacturing liquid phase for explosive slurries. 3,707,412, 12-26-72, Cl. 149-46.000.
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- Adams, Gary A., to Koehring Company. Part removing mechanism for removing container parts and the like from nested stacks of parts. 3,640,408, 2-8-72, Cl. 214-8.5.
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- Adams, Harvey Keith, to Radco Manufacturing Co., Inc. Water ski rack. 3,701,436, 10-31-72, Cl. 211-60.0sk.
- Adams, Harvey N. Protective coating for surfaces of silver and mirror fabrication. 3,687,713, 8-29-72, Cl. 117-71.00r.
- Adams, Henry G., to International Telephone and Telegraph Corporation. Automatic direction finder. 3,701,155, 10-24-72, Cl. 343-117.00r.
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Adams, Cecil S., 3,672,146.
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Tilp, George E., 3,701,883.
- Adams, Jack C., to Ecological Controls, Inc. Combustion chamber supplemental air supply assembly and method. 3,685,946, 8-22-72, Cl. 431-8.000.
- Adams, Jack J.: See—
Stafford, Owen L.; and Adams, Jack J., 3,642,949.
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Haas, Werner E. L.; and Adams, James E., 3,671,231.
Haas, Werner E. L.; Adams, James E.; and Flannery, John B., Jr., 3,687,515.
Haas, Werner Erwin Louis; Adams, James E.; Flannery, John B., Jr.; and Mechlowitz, Bela, 3,666,947.
Mechlowitz, Bela; Adams, James E.; and Haas, Werner Erwin Louis, 3,666,948.
Wysocki, Joseph J.; Adams, James E.; Becker, James H.; Madrid, Robert W.; and Haas, Werner E. L., 3,652,148.
Wysocki, Joseph J.; Adams, James E.; and Madrid, Robert W., 3,704,056.
Wysocki, Joseph J.; Adams, James E.; Becker, James H.; Madrid, Robert W.; and Haas, Werner E. L., 3,707,322.
Wysocki, Joseph J.; Adams, James E.; and Madrid, Robert W., 3,642,348.
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Lee, Ernest O., Jr.; and Adams, John A., Jr., 3,671,677.
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- Adams, John F.; and Steltzer, Ernest R. Vehicle marker light. 3,692,998, 9-19-72, Cl. 240-8.200.
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- Adams, Kenneth D., to Singer Company, The. Pattern cam removal mechanism for sewing machines. 3,648,633, 3-14-72, Cl. 112-158.
- Adams, Kenneth D.; and Odermann, Charles R., to Singer Company, The. Monogramming insert for buttonhole attachment. 3,669,044, 6-13-72, Cl. 112-77.000.

- Adams, Kenneth D., to Singer Company, The. Push button presser bar release. 3,669,050, 6-13-72, Cl. 112-237,000.
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- Adams, Larry D. Wall construction. 3,702,522, 11-14-72, Cl. 52-476,000.
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- Adams, Lloyd M.; and Hoelscher, Robert L., to Cubic Corporation. Film transport deck unit. 3,697,017, 10-10-72, Cl. 242-189,000.
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- Adams, Madison B. Power assisting assembly for a clutch mechanism. 3,677,379, 7-18-72, Cl. 192-91,000.
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- Adams, Patrick James; and Lewis, Richard Newton, to Stauffer Chemical Company. Process for grafting organopolysiloxanes. 3,694,478, 9-26-72, Cl. 260-448,200.
- Adams, Peter F.: See—
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- Adams, Ralph C.; and Anderson, John R., to Sybron Corporation. Method of operating and regenerating ion exchange apparatus. 3,632,506, 1-4-72, Cl. 210-34.
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- Davidson, Robert E., 3,638,984.
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- Adams, Robert J. Container washing apparatus. 3,664,355, 5-23-72, Cl. 134-143.
- Adams, Robert P., to Cenco Medical/Health Supply Corporation, mesne. Apparatus for tissue preparation. 3,639,999, 2-8-72, Cl. 34-92.
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- Adams, Ronald Alfred Charles, to Algraphy Limited. Apparatus for applying a surface coating of a liquid to a sheet. 3,641,905, 2-15-72, Cl. 95-89.
- Adams, Ronald Alfred Charles, to Algraphy Limited. Process of strengthening presensitized lithographic plate with lacquer emulsion. 3,669,664, 6-13-72, Cl. 96-33,000.
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- Adams, Thomas F.; Mattes, Lyle T.; and Roulund, Poul B., to FMA, Inc. Segmented light table. 3,639,746, 2-1-72, Cl. 240-2.
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- Adams, William E.: See—
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- Adams, William L., to Industrial Nucleonics Corporation. Process and apparatus for moisture and fiber content control in a paper-making machine. 3,666,621, 5-30-72, Cl. 162-198.
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- Adamson, Wayne G., to Square D Company. Handle locking attachment for electrical control devices. 3,678,228, 7-18-72, Cl. 200-42,000.
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- Abramson, Carl N.; and Nadir, Mark T., 3,697,959.
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- Adaptronics, Inc.: See—
- Barron, Roger L.; Kelleher, Kenneth S.; and Vieth, George C., Jr., 3,680,126.
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- Landers, Adrian L.; and Byrd, Commodore B., 3,682,210.
- Adcock, Stuart Samuel: See—
- Bryce-Smith, Derek; and Adcock, Stuart Samuel, 3,647,715.
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- Addie, Albert N., to General Motors Corporation. Engine turbosupercharger with vibration reducing drive. 3,667,214, 6-6-72, Cl. 60-13,000.
- Addie, Albert N., to General Motors Corporation. Bi-modal vehicles with drive means for external or self-propulsion. 3,699,351, 10-17-72, Cl. 290-14,000.
- Addin, Leo. Method of growing pear trees from slips. 3,645,041, 2-29-72, Cl. 47-58.
- Addinall, Ramon L.; Lewis, William T.; and Mudroch, Otokar, to Steel Company of Canada Limited, The. Process for applying a polymeric film to a steel substrate. 3,679,513, 7-25-72, Cl. 156-309,000.
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- Addington, Robert L.; and Latus, Gerald J., Jr., 3,680,006.
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- Weinkle, David, 3,664,259.
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- Addoutte, Roland: See—
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- Addressograph-Multigraph Corporation: See—
- Baltazzi, Evan S.; Shelffo, Loren E.; and Moduthagam, Michael, 3,646,866.
- Baltazzi, Evan S., 3,658,518.
- Baltazzi, Evan S.; Blanchette, Robert G.; and Minnis, Ralph L., 3,672,889.
- Blanchette, Robert G., 3,674,473.
- Booth, Thomas A., 3,697,177.
- Bornarth, Dennis M.; and Schneideringer, Frank, 3,652,271.
- Botkin, Carl, 3,676,001.
- Burger, Jack E.; Deutsch, Fritz A.; Howe, Warren B.; and Kyle, William, 3,650,204.
- Copeland, John S., 3,702,096.
- Deutsch, Fritz A., 3,653,060.
- Deutsch, Fritz A., 3,685,819.
- Di Giulio, Albert J.; and Naujokas, Frank B., 3,645,157.
- Gawron, Stanley A.; and Helland, Kristian L., 3,691,375.
- Gawron, Stanley A., 3,707,134.
- Germuska, Richard W., 3,689,133.
- Granzow, Daniel B.; Gawron, Stanley A.; Graff, William P.; and Swain, Pervis A., 3,632,201.
- Gray, Donald R.; and Miller, Donald J., 3,683,803.
- Gray, Donald R., 3,689,141.
- Hellar, Martin W.; and Kiener, Michael A., 3,701,673.
- Johnson, Robert M.; Toby, Dennis E.; and Koch, Robert M. (said Toby and said Koch assors. to), 3,704,661.
- Johnson, Robert M.; and Toby, Dennis E., 3,704,662.
- Kent, Richard T.; and Koch, Robert M., 3,682,077.
- Koch, Robert M.; Webb, Samuel L.; and Toby, Dennis E., 3,687,049.
- Kolibas, James A., 3,632,203.
- Kolibas, James A., 3,690,646.
- Kumins, Charles A., 3,671,232.
- Lake, Francis K., 3,645,202.
- Lee, Richard G., 3,672,770.
- Lux, George K.; Ellis, James B.; and Schulze, John J., 3,685,894.
- Margulis, Harry; and Miles, William B., 3,655,283.
- Marinoff, George, 3,648,816.
- Mignone, Albert E.; Miller, Donald J.; and Schmidlin, Raymond J., 3,631,800.
- Miles, William B., 3,655,285.
- Miller, Donald J.; and Schmidlin, Raymond J., 3,649,005.
- Miller, Donald J.; and Schmidlin, Raymond J., 3,664,260.
- Morgan, Edward T., 3,693,547.
- Murphy, William S., Jr.; and Bialczak, Edward, 3,661,590.
- Raab, Lester R.; and Toby, Dennis E., 3,640,203.
- Rateman, Donald E., 3,685,906.
- Robertson, Richard C., 3,707,328.
- Schultz, Ronald B., 3,698,895.
- Schulze, John J., 3,672,326.
- Seelenbinder, Terrence G., 3,655,184.
- Serfahs, Arthur S.; and Patzke, Robert C., 3,653,755.
- Shimola, Howard G., 3,706,588.
- Stevko, Phillip J., 3,634,740.
- Tandy, William H., 3,690,878.
- Turner, Charles L.; and Zerfahs, Arthur S., 3,655,282.
- Van Acker, John J.; and Zimmer, Robert E., 3,684,941.
- Van Dusen, Charles H., Jr., 3,687,694.
- Verderber, Joseph A.; Fortcamp, James A.; and Kolibas, James A., 3,634,007.
- Zerfahs, Arthur S., 3,663,102.
- Adduci, Nicholas F.; and Valente, Raymond L. Evasive action tackling practice apparatus. 3,658,332, 4-25-72, Cl. 273-55.
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- Abbe, Robert C., 3,694,741.
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- Adegeest, Marco, to Corodex N.V. Process for the purification of waste water. 3,655,047, 4-11-72, Cl. 210-59.
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- Adelman, Robert Leonard: See—
- Inskip, Harold Kirkwood; and Adelman, Robert Leonard, 3,689,469.
- Adelman, Robert Leonard, to Du Pont de Nemours, E. I., and Company. Ethylene-vinyl acetate-allyl glycidyl ether terpolymer and plasticized compositions containing same. 3,639,365, 2-1-72, Cl. 260-80,72.
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- Adelstein, Jerome; and Frey, Robert R. Method of incorporating volatile aromatics into hard candy. 3,687,691, 8-29-72, Cl. 99-134,000.
- Adesko, Paul L., to Du Pont de Nemours, E. I., and Company. Wire enamel of an aromatic polysulfone resin and a heat reactive condensate. 3,657,177, 4-18-72, Cl. 260-30,4.
- Adgate, Frank N.: See—
- Walkey, George J.; and Adgate, Frank N., 3,631,745.
- Adica, Osamu; Naito, Kenji; Ogino, Katsuhiko; and Kuroda, Hiroyuki, to Takeda Chemical Industries, Ltd. Purification of xylylene organic diisocyanate by fractional distillation in the presence of an inert gas or superheated vapor of an organic solvent. 3,68,656, 4-25-72, Cl. 203-49.
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- Adicoff, Arnold: See—
- Woodman, Alan L.; and Adicoff, Arnold, 3,638,698.
- Adie, Bryce C., to Atomic Power Development Associates, Inc. Material handling device. 3,680,904, 8-1-72, Cl. 294-19,000.
- Adie, William: See—
- Wheeler, Donald J.; and Adie, William, 3,662,639.
- Adjusta-Post Manufacturing Company: See—
- Patry, Leon R., 3,704,368.
- Adkin, William C. Batting practice device. 3,703,286, 11-21-72, Cl. 273-26,000.
- Adkins, Frank M.: See—
- Smith, Max D.; and Adkins, Frank M., 3,703,287.

- Adkins, Joel E., to Otis Engineering Corporation. Jar stroke accelerator for pump down well tool. 3,642,069, 2-15-72, Cl. 166-301.
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- Adler, Nathan: See—
Fullmer, Roger W., 3,659,492.
- Adler, Norman R., to Ilco Corporation. Panic lock device. 3,705,739, 12-12-72, Cl. 292-92.000.
- Adler Process Corporation: See—
Alder, Ralph M., 3,655,490.
- Adler, Robert, to Zenith Radio Corporation. Solid-state traveling-wave amplification system. 3,678,401, 7-18-72, Cl. 330-5.5.
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- Adler, Stanford L.: See—
Livshitz, Stanley L.; Engelhardt, Alvin; and Adler, Stanford L., 3,679,129.
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- Adler, Wilfried: See—
Nagel, Horstmar; Berg, Markus; Lohr, Albrecht; and Adler, Wilfried, 3,700,600.
- Adlerwerke vorm. Heinrich Kleyer A.G.: See—
Werner, Kurt; and Kuhn, Lothar, 3,633,721.
- ADM Tronics: See—
Di Mino, Alfonso, 3,676,633.
- Admiraal, Daniel Johannes Hindericus: See—
Cardozo, Benjamin Lopes; Admiraal, Daniel Johannes Hindericus; and Domburg, Gerrit, 3,659,195.
- Admiraal, Lambertus, to Mac Millan Bloedel Limited. Microwave drying apparatus and method. 3,670,133, 6-13-72, Cl. 219-10.550.
- Admiral Coated Products, Inc.: See—
Alexander, Martin J., 3,654,016.
- Admiral Corporation: See—
Dawley, Daniel B.; and Johnson, Roy V., 3,707,317.
- Ekstrand, Roy A., 3,688,021.
- Jarosz, George J., 3,643,179.
- Knoll, Ronald S., 3,692,933.
- Maleck, Le Roy R., 3,676,896.
- Meier, James L., 3,637,930.
- Squire, Herbert D., 3,690,744.
- Virva, John, 3,687,220.
- Admiral Corporation, mesne: See—
Chamberlain, Richard Travers, 3,686,575.
- Adolph, Horst G.; and Kamlet, Mortimer J., to United States of America, Navy. Bis (2-fluoro-2,2-dinitroethyl) amides. 3,644,519, 2-22-72, Cl. 260-561.
- Adolph, George, to Ametek, Inc. Multiple riveting machine. 3,693,832, 9-26-72, Cl. 221-93.000.
- Adolph, Heinrich: See—
Bachmann, Gerhard; and Adolph, Heinrich, 3,702,892.
- Vollrath, Robert; Nucrenbach, Axel; and Adolph, Heinrich, 3,673,215.
- Adolph, Heinrich; Steimmig, Anna; and Spaenig, Hermann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Imidazole synergist-enhanced phosphoric ester insecticide compositions and insect control therewith. 3,641,248, 2-8-72, Cl. 424-212.
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- Adolphson, Carl: See—
Markham, Aaron E.; and Adolphson, Carl, 3,686,119.
- Adret-Electronique Vladimir Komarov Trappes: See—
Charbonnier, Roger Charles, 3,684,982.
- Adrian, Howard, to Itak Corporation. Photographic media. 3,661,587, 5-9-72, Cl. 96-76.000.
- Adtrol Electronics, Inc.: See—
Busch, Edward G., 3,649,823.
- Advanced Patent Technology, Inc.: See—
Snaper, Alvin A.; Gregory, George D.; and Munroe, Miles R., 3,675,220.
- Advance Drainage Systems, Inc.: See—
Martin, Ronald C.; and Sixt, Marty E., 3,669,473.
- Advance Metal Products, Inc.: See—
Piccolo, Jerry, 3,640,294.
- Sagers, Stanley M., 3,637,183.
- Advance Transformer Co.: See—
Freegard, Ernest M., 3,664,624.
- Hasson, Sol; and Freegard, Ernest M., 3,646,401.
- Advanced Computer Techniques Corporation: See—
Lecht, Charles P.; Harden, William O.; Lavell, Matthew J.; Kos, Stanley M.; and Pace, Robert A., 3,660,645.
- Advanced Controls Corporation: See—
Kosmowski, Wojciech B., 3,672,256.
- Advanced Digital Systems, Inc.: See—
Hancock, John B.; and Salbert, George R., 3,657,775.
- Advanced Drainage Systems, Inc.: See—
Martin, Ronald C.; and Sixt, Marty E., 3,658,097.
- Sixt, Marty E., 3,699,684.
- Advanced Geophysics, Inc.: See—
Owen, Robert L.; and Busby, Julian M. (said Owen assor. to), 3,651,395.
- Advanced Instruments, Inc.: See—
Alessi, Patrick A.; and Jansky, Joel W., 3,650,038.
- Advanced Management Engineering & Research Co.: See—
Abromavage, John C.; and Ryden, James W., 3,667,780.
- Glissendorf, Wilmer E., 3,700,053.
- Sweeten, Orlin L.; and Abromavage, John C., 3,696,805.
- Advanced Memory Systems, Inc.: See—
Fa, Charles H.; and Suzuki, Clarence K., 3,690,968.
- Advanced Research Instrument Systems, Inc.: See—
Golden, David E., 3,670,172.
- Advanced Technology Center, Inc.: See—
Claytor, Richard N.; and Eden, Dayton D., 3,655,256.
- Advanced Technology Center, Inc., mesne: See—
Boatner, Lynn A.; and Sewell, Kenneth G., 3,651,426.
- Downs, Robert F., 3,638,128.
- Farmer, Bobby Joe; and Johnson, Jim Howard, 3,646,347.
- Reed, Madison W., Jr.; and Schwemer, Warren C., 3,647,551.
- Sewell, Kenneth G., 3,651,423.
- Advanced Terminals, Inc.: See—
Hutley, Ronald W. F., 3,640,521.
- Advenier, Pierre M.: See—
Monpetit, Louis A.; and Advenier, Pierre M., 3,665,901.
- Advertising Metal Display Co.: See—
Fischer, Jack, 3,701,577.
- Adwest Engineering Limited: See—
Jenvey, Leslie Richard, 3,661,032.
- Jenvey, Leslie Richard, 3,680,443.
- Jenvey, Leslie Richard, 3,698,188.
- Millard, Barry John, 3,633,933.
- Adwick, Albert Graham; and Nicholson, Henry, to Morganite Resistors Limited. Shunt for oil-immersed circuit breaker. 3,688,242, 8-29-72, Cl. 338-49.000.
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- Aebi, Hans: See—
Martin, Henry; Aebi, Hans; and Ebner, Ludwig, 3,692,911.
- Aebi, Hans Riechen: See—
Martin, Henry; Aebi, Hans Riechen; and Ebner, Ludwig, 3,702,363.
- AEG-Elotherm G.m.b.H.: See—
Reinke, Friedhelm; and Frisch, Karl, 3,684,851.
- Seulen, Gerhard; and Reinke, Friedhelm, 3,631,698.
- Seulen, Gerhard; Reinke, Friedhelm H.; and Stengel, Edgar, 3,682,721.
- Seulen, Gerhard; and Von Starck, Axel, 3,696,858.
- Von Starck, Axel, 3,632,229.

- Von Starck, Axel, 3,645,646.
- Von Starck, Axel, 3,656,537.
- Von Starck, Axel, 3,684,402.
- A.E.I. Corporation: See—
Christine, William C.; and Pierce, Joseph E., 3,694,997.
- Pierce, Joseph E., 3,702,667.
- Ael Food Automation, Inc.: See—
Longenecker, John G., 3,680,994.
- Aelony, David; and McKillip, William James, to Ashland Oil, Inc. Synthesis of 4H-3,1-benzoxazine-2(1H)-one. 3,705,154, 12-5-72, Cl. 260-244.00r.
- Aelterman, Marcel Frans; and Stievenart, Emile Frans, to Gevaert-Agfa N.V. Photographic processing apparatus. 3,641,911, 2-15-72, Cl. 95-94.
- Aeppli, Otto T.: See—
Sedliar, Ronald M.; Garvin, Donald F.; and Aeppli, Otto T., 3,650,964.
- Sedliar, Ronald M.; Aeppli, Otto T.; and Burkard, Perle N., 3,705,856.
- Aerazur Construcciones Aeronautiques Societe Anonyme: See—
Collec, Henri, 3,693,917.
- Aereon Corporation: See—
Kukon, John P.; and Putman, William F., 3,684,217.
- Aero Union Corporation: See—
Newton, Dale P., 3,698,480.
- Aero Vac Corporation: See—
Dizio, Steven F., 3,651,686.
- Aero-Flow Dynamics, Inc. (The Wing Company Division): See—
Creuz, Walter R., 3,701,139.
- Aero-Flow Dynamics, Inc. (Wing Company Division, The): See—
Rohrs, Marvin K.; and Neary, Robert J., 3,702,156.
- Aero-Flow Dynamics, Inc., mesne: See—
Heffron, Donald B., 3,672,128.
- AeroChem Research Laboratories, Inc.: See—
Calcote, Hartwell Forrest, 3,685,810.
- Aerocoat S.A.: See—
Wanner, Maurice Paul; and Wallis, Neil Rudolph, 3,695,226.
- Wanner, Maurice Paul; and Wallis, Neil Rudolph, 3,700,389.
- Aerodyne Controls Corporation: See—
Miller, James R., 3,654,410.
- Shea, Edward T., 3,659,062.
- Tetrault, Leonard P., 3,632,920.
- Aerojet-General Corporation: See—
Andrews, Donald W.; Kessler, Eugene L.; and Newton, Roland A., 3,650,337.
- Barsh, Max K.; and Edwards, James N., 3,673,560.
- Batchelder, George W.; and Zimmerman, Gilbert A., 3,653,993.
- Batchelder, George W.; and Zimmerman, Gilbert A., 3,653,994.
- Binnings, Gerald F.; Meyer, Theodore N.; and Riley, Mel J., 3,650,437.
- Binnings, Gerald F.; Meyer, Theodore N.; and Riley, Mel J., 3,654,091.
- Chalfin, Gregory T.; Louapre, Merlin E.; and Olson, Richard C., 3,680,140.
- De Pree David O.; Weyland, Herman H.; and Gold, Marvin H., 3,658,729.
- Depee, David O., 3,700,592.
- Doherty, Alfred E., Jr.; and Knop, Louis H., 3,645,435.
- Eckles, Paul N.; and Ryan, Edwin B., 3,689,737.
- Eggington, Wilfred J., 3,631,938.
- Eggington, Wilfred J., 3,700,065.
- Frankel, Milton B.; Gold, Marvin H.; and Marcus, Henry J., 3,644,494.
- Frankel, Milton B.; Gold, Marvin H.; and Marcus, Henry J., 3,646,228.
- Gold, Marvin H.; and Marcus, Henry J., 3,632,756.
- Gold, Marvin H.; and Marcus, Henry J., 3,632,772.
- Gold, Marvin H.; and Marcus, Henry J., 3,632,773.
- Gold, Marvin H.; and Marcus, Henry J., 3,632,781.
- Grakauskas, Vytautas, 3,639,102.
- Grakauskas, Vytautas, 3,698,864.
- Grakauskas, Vytautas, 3,706,788.
- Hankins, Ronald A.; Culver, Donald W.; and Scammon, Harrison B., Jr., 3,702,174.
- Hoffman, Lawrence C.; Rudnicki, Mark I.; and Williams, Howard W., 3,702,110.
- Kays, David D., 3,672,960.
- King, William M.; and Cantor, Paul A., 3,673,084.
- Kromrey, Robert V., 3,694,284.
- Lucas, James M., 3,676,232.
- Lucas, James M.; Suder, Jack K.; and Vander Wall, Eugene M., 3,696,616.
- Meriano, Albert P.; Fuller, Giles A.; and Knuth, William H., 3,698,507.
- Morrison, Robert A., 3,634,808.
- Neal, Warren D., 3,647,050.
- Paul, Ben E.; and Olmstead, Ival L., 3,688,697.
- Roberts, Ernest Roth, 3,664,928.
- Rudy, Erwin, 3,690,962.
- Steele, Robert D.; and Farris, Richard J., 3,660,904.
- Steele, Roger B.; Katzakian, Arthur, Jr.; Scigliano, Joseph J.; and Barry, Jude W., 3,635,869.
- Walker, Lloyd A.; and Peterson, Rudolph A., 3,663,148.
- Weyland, Herman H.; and Hamel, Edward E., 3,649,687.
- Witz, Samuel; Carleton, Lee T.; Anderson, Howard H.; Moyer, Rudolph H.; and Neufeld, Harold A. (said Witz, Anderson and assor. to), 3,690,837.
- Wooten, Robert D.; Neal, Warren D.; and Einfeldt, George J., 3,669,245.
- Zimmerman, Harry M., 3,660,906.
- Aerojet-General Corporation, mesne: See—
Bieker, Lawrence W.; Schuler, Harold E.; and Kinghorn, Mark D., 3,666,158.
- Tidball, Robert A., 3,697,385.
- Wagoner, Robert B.; and Kinghorn, John S., 3,701,458.
- Aeromarine Corporation: See—
Carter, John Henry, 3,670,589.
- Aeronca, Inc.: See—
Page, George A.; Rathbun, Robert R.; and Kramer, Bruce E., 3,676,635.
- Aeroplane and Motor Aluminum Castings Limited: See—
Brown, Warwick N.; and Robinson, Peter M., 3,645,491.
- Aeroponica S.p.A.: See—
Longhini, Fernando, 3,667,157.
- Aeroprojects Incorporated: See—
Maropis, Nicholas, 3,640,180.
- Walraven, Thomas A.; Maropis, Nicholas; Elmore, William C.; and Devine, Janet, 3,695,500.
- Aeroquip Corporation: See—
Alcenius, James E., 3,667,109.
- Allread, Alan R., 3,645,294.
- Contreras, Gilbert E.; and Graves, Robert W., 3,663,044.
- Graves, Robert W., 3,695,636.
- Hubbel, Edward F., 3,639,721.
- Reinker, Joseph F., Jr., 3,645,567.
- Richmond, Abraham W., 3,701,556.
- Aerospace America, Inc.: See—
Kontranowski, Edward S., 3,675,730.
- Aerospace Research, Inc.: See—
Galvin, Aaron A., 3,665,443.
- Aerostatic Limited: See—
Dee, Colin W., 3,635,577.
- Dee, Colin W., 3,647,272.
- Aerotherm Corporation: See—
Adler, Alan J., 3,668,673.
- Aerotron, Inc.: See—
Saubert, Charles R.; and Parker, Roy A. (said Sauber assor. to), 3,638,832.
- Aerotron Associates, Inc.: See—
Grant, John; and Longley, Miner R., 3,697,815.
- Aerovox Corporation: See—
Kalstein, Abraham G., 3,705,336.
- Aerpat A.G.: See—
Alvi, Zia R.; Heslop, Victor L.; and Summerlin, Frederick A., 3,695,088.
- Savage, Donald Stanley, 3,695,086.
- Aerpat A.G., mesne: See—
Bradley, William David; and Summerlin, Frederick Arthur, 3,657,956.
- Sanders, John Stewart; Savage, Donald Stanley; and Summerlin, Frederick Arthur, 3,646,757.
- Aerotech: See—
Mouw, Robert B., 3,693,103.
- Aesculap-Werke Aktiengesellschaft vormals Jetter & Scheerer: See—
Beuerle, Harbert; and Haberen, Roland, 3,685,518.
- Hildebrandt, Hans G.; and Hilzinger, Fritz, 3,651,811.
- Aetna Life & Casualty: See—
Frame, Wayne W.; Gustavson, Roy A.; and Wiltse, James, 3,704,526.
- Aetva-Standard Engineering Company: See—
Scheib, William R., 3,687,348.
- AFA Corporation of Florida, The: See—
Malone, Carl E., 3,650,473.
- AFA Corporation, The: See—
Vanier, Vance R., 3,685,739.
- AFA Protective Systems, Inc., mesne: See—
Zinn, Leon; and Bodin, Milton, 3,634,824.
- Zinn, Leon; and Bodin, Milton, 3,652,867.
- Afanador, Carlos P.: See—
Ischabrun, Richard G.; and Afanador, Carlos P., 3,677,910.
- Afanasyev, Mikhail Andreevich: See—
Pshenichny, Gennady Ivanovich; Chocholjak, Yakov Zinovievich; and Afanasyev, Mikhail Andreevich, 3,685,435.
- AFCO Products, Inc.: See—
Rizzo, Anthony R., 3,681,121.
- Afdahl, Ronald L.; and Barber, Harold W., to Phillips Petroleum Company. Treatment of hydrocarbon gases. 3,676,981, 7-18-72, Cl. 55-30.000.
- AFE Industries, Inc.: See—
Alms, Erhard E.; and Mitchell, James E. (said Mitchell assor. to), 3,645,511.

- Alms, Erhard E.; and Mitchell, James E. (said Mitchell assor. to), 3,659,351.
 Alms, Erhard E.; and Mitchell, James E. (said Mitchell assor. to), 3,660,007.
 Affeldt, Hans, to Metallgesellschaft Aktiengesellschaft. Coating porous substrates with solid rubber foam. 3,649,325, 3-14-72, Cl. 117-11.
 Affiliated Hospital Products, Inc.: See—
 Baldwin, Brian E., 3,659,587.
 Einstein, Alfred C., 3,705,724.
 Hoover, Robert B., 3,680,772.
 Wexstaff, Charles W., 3,679,209.
 Affsli, A. Brom: See—
 Koenig, Wolf M., 3,694,062.
 Agfa-Gevaert Aktiengesellschaft: See—
 Nittel, Fritz; and Reckziegel, Erich, 3,689,271.
 Afifi, Mostafa S. Offset paraboloid-plane reflector antenna. 3,633,209, 1-4-72, Cl. 343-781.
 Afinogenov, Fridrikh Ivanovich: See—
 Nekrasov, Nikolai Nikolaevich; Blinichikov, Alexandr Lvovich; Kazansky, Vasily Leonidovich; Besedin, Alexandr Fedorovich; Krikunenko, Anatoly Filippovich; Makarov, Egor Maximovich; Zernskov, Alexei Lavrentievich; Afinogenov, Fridrikh Ivanovich; Kirichenko, Sergei Pavlovich; and Kulikov, Alexei Andreevich, 3,681,003.
 African Explosives and Chemical Industries Limited: See—
 Louis, Rodney Brian, 3,672,225.
 Stander, Cornelius Martinus, 3,657,156.
 A.G. Elektron: See—
 Dill, Hans Rudolf, 3,689,759.
 AG fur Industrielle Elektronik AGIE Losone bei Locarno: See—
 Ullmann, Werner; Tadini, Costantino; and Salim, Ehsan, 3,655,937.
 Ullmann, Werner; Derighetti, Renato; and Marazzi, Valentino, 3,662,182.
 A.G. Rheinpreussen: See—
 Wollner, Johannes; Tietz, Wolfgang; and Neier, Wilhelm, 3,682,868.
 Ag-Rain, Inc.: See—
 Kruse, Frederick V.; and Pichon, James D., 3,695,632.
 AGA Aktiebolag: See—
 Beer, Palle-Finn, 3,650,699.
 Beer, Palle-Finn; and Smith, Kai Robert, 3,652,170.
 Beer, Palle-Finn, 3,688,290.
 Bohac, Johann Armin Josef, 3,682,454.
 Ekstrom, Staffan Walter, 3,703,191.
 Eriksson, Erik Torvald, 3,689,239.
 Granqvist, Carl-Erik, 3,634,838.
 Granqvist, Carl-Erik, 3,672,229.
 Granqvist, Carl-Erik, 3,677,646.
 Granqvist, Carl-Erik, 3,680,101.
 Granqvist, Carl-Erik, 3,680,964.
 Granqvist, Carl-Erik, 3,684,375.
 Hellquist, Ivan A., 3,672,384.
 Hill, Friedrich W., 3,680,999.
 Iso, Henry Ervin, 3,682,237.
 Jacobsson, Jan Roland, 3,695,217.
 Johannisson, Dag Olof Alfred; and Lundberg, Gustaf Silas Staffan, 3,662,774.
 Johannisson, Dag Olof Alfred, 3,677,527.
 Lilljefors, Gustaf Lennart, 3,636,994.
 Lilljefors, Gustaf Lennart, 3,683,703.
 Ljung, Bo Hans Gunnar, 3,691,852.
 Ljung, Bo Hans Gunnar, 3,696,363.
 Norr, Artur Valter Leopold; and Holm, Fritz Bertil Willy, 3,654,085.
 Scholdstrom, Karl O. R., 3,634,011.
 Scholdstrom, Karl O. R., 3,657,544.
 Scholdstrom, Karl Otto Ragnar, 3,656,828.
 Smars, Erik Algot, 3,671,883.
 Svensson, Sven Erik; and Lonngrén, Per-Lennart, 3,658,599.
 Unger, Hans Peter Olof; Westberg, Johan E. H.; Berndtsson, Gunnar Ingemar; and Schwartz, Stephan Lars, 3,679,128.
 Unger, Hans Peter Olof; and Westberg, Johan Eric Hayden, 3,684,160.
 Unger, Hans Peter Olof; and Westberg, Johan Eric Hayden, 3,684,161.
 Aga, Takashi: See—
 Yamanaka, Masami; and Aga, Takashi, 3,698,493.
 AGA-Platforadling Aktiebolag: See—
 Larsson, Gunnar, 3,632,141.
 Agafonov, Nikolai Georgievich: See—
 Maximovich, Boleslav Ivanovich; Dudko, Daniil Andreevich; Agafonov, Nikolai Georgievich; Maximov, Igor Petrovich; Andreev, Vadim Grigorievich; Lepilov, Nikolai Yakovlevich; Svinov, Alexei Kapitonovich; Slonimsky, Alexandr Borisovich; Volk, Boris Zakharovich; Gubin, Alexandr Ivanovich; and Katsman, Berta Osipovna, 3,677,330.
 Agalakov, Viktor Iosifovich; Gusevnikov, Eduard Mitrofanovich; and Smaikin, Viktor Gavrilovich, to Spetsialnoe Konstruktorskoye Byuro Po Oborudovaniyu dlya proizvodstva asbestotsementnykh Izedelyi Rolonokrovelnykh Materialov. Brake induction motor. 3,683,17, 8-8-72, Cl. 310-77,000.
 Agamennone, Marco: See—
 Pregaglia, Gianfranco; Agamennone, Marco; Santangelo, Nicola; and Croci, Mauro, 3,637,834.
 Pregaglia, Gianfranco; Agamennone, Marco; Santangelo, Nicola; and Matzuzi, Guglielmo, 3,660,480.
 Pregaglia, Gianfranco; Agamennone, Marco; and Cavilli, Luigi, 3,661,932.
 Agar, Joram, to Solartron Electronic Group Limited. The Force-transducers. 3,672,220, 6-27-72, Cl. 73-398,00r.
 Agari, Taiichiro: See—
 Yoneda, Shoji; Agari, Taiichiro; Goto, Tetsuo; and Taniguchi, Kyuhei, 3,680,515.
 Agata, Akihiko: See—
 Sato, Ryuichi; Harimaya, Seizi; Agata, Akihiko; Morishima, Kunio; Tsutsui, Toshiaki; and Kano, Yasuhiro, 3,637,329.
 Agatahama, Shunichi: See—
 Nakama, Katuhiko; and Agatahama, Shunichi, 3,693,119.
 Agatsuma, Kunio: See—
 Nakamura, Yasushi; Agatsuma, Kunio; Tanaka, Yoshihiro; and Aono, Shunji, 3,658,829.
 Agee, Charles W.: See—
 Kinley, John C.; Floeck, Wayne D.; and Agee, Charles W., 3,683,408.
 Agence Katimavik Inc.: See—
 Sollogoub, Nicolas; and Bloc, Jean A., 3,704,064.
 Agence Nationale de Valorisation de la Recherche (ANVAR): See—
 Globus, Anatol; Duplex, Paul; and Vautier, Roger, 3,674,218.
 Agence Nationale de Valorisation de la Recherche (ANVAR): See—
 Bonnier, Etienne; Allibert, Colette; Driole, Jean; and Wicker, Alain, 3,672,872.
 Bonnier, Etienne; Allibert, Colette; Driole, Jean; and Wicker, Alain, 3,700,428.
 Chakraverty, Benoy Kumar; and Plenier, Alain, 3,679,947.
 Deutscher, Guy; and Waysand, Georges, 3,663,902.
 Foch, Henri, 3,649,845.
 Kant, Michel; and Bonnefille, Robert, 3,663,844.
 Kastler, Alfred; Arditi, Maurice; and Cerez, Pierre, 3,667,066.
 Leipp, Emile A.; Castellengo, Michele M. T.; Lienard, Jean-Sylvain R.; Quinio, Jacques L.; Sapaly, Jean; and Teil, Daniel G., 3,632,887.
 Loup, Jean-Pierre Olivier; Gutknecht, Jacques Emile; and Anthony, Anne-Marie, nec Barbier, 3,676,771.
 Malavard, Lucien C.; and Marty, Pierre M., 3,632,874.
 Paris, Rene A.; Thibaudon, Dominique; Roubin, Marc P.; and Paris, Jacques M., 3,704,116.
 Peronneau, Pierre; and Leger, Fernand, 3,661,146.
 Roblin, Gerard; and Nomarski, Georges, 3,706,492.
 Agence Nationale de Valorisation de la Recherche Centre Nationale d'Etudes des Telecommunications: See—
 Delmas, Jean R., 3,698,808.
 Agence Nationale de Valorisation de la Recherche tour Aurore: See—
 Gerard, Paul, 3,685,874.
 Agens, Maynard C., to General Electric Company. Electroless copper plating. 3,649,350, 3-14-72, Cl. 117-160.
 Agens, Maynard C.; and Kantor, Simon W., to General Electric Company. Laminates containing stannous compound in bonding resin. 3,676,285, 7-11-72, Cl. 161-93,000.
 Ager, David Joseph; and Stanley, Ian William, to Post Office, The. Two terminal negative resistance device employing bipolar-unipolar transistor combination. 3,670,183, 6-13-72, Cl. 307-304,000.
 Ager, John W., to FMC Corporation. Oxidation of p-toluic acid to terephthalic acid. 3,654,356, 4-4-72, Cl. 260-524.
 Ager, John W., to FMC Corporation. Oxidation of p-xylene and p-toluic acid to terephthalic acid in aqueous medium. 3,678,106, 7-18-72, Cl. 260-524,00r.
 Ager, John W., Jr., to FMC Corporation. Oxidation of p-xylene and p-toluic acid to terephthalic acid. 3,683,017, 8-8-72, Cl. 260-524,00r.
 Ager, John Walter Albert: See—
 Jennings, Brian Michael; and Ager, John Walter Albert, 3,700,167.
 Ager, Patrick W., to FMC Corporation. Hydantoin-formaldehyde resin modified polypropylene. 3,637,905, 1-25-72, Cl. 260-854.
 Agerbeek, Paul F.: See—
 Vincken, Leonardus M. J.; Agerbeek, Paul F.; and Hoekenga, Piet E., 3,681,928.
 Ages, Frederik J., to Honeywell Inc. Electric control valve. 3,654,963, 4-11-72, Cl. 137-625,65.
 Agfa Aktiengesellschaft: See—
 Winkler, Alfred; and Zanner, Johann, Jr., 3,692,391.
 Agfa-Gevaert: See—
 Carpentier, Jan Albert; and De Pauw, Alfons Jozef, 3,676,142.
 De Haes, Louis Maria, 3,676,125.
 Depoorter, Henri; and Ghys, Theofil Hubert, 3,676,119.
 Lambrechts, Jan Bernard, 3,674,588.

- Poot, Albert Lucien; Van Besauw, Jan Frans; and Depoorter, Henri, 3,676,133.
 Poot, Albert Lucien; and Depoorter, Henri, 3,676,138.
 Poot, Albert Lucien; and Depoorter, Henri, 3,676,140.
 Stievenart, Emile Frans, 3,682,082.
 Vrancken, Marcel Nicolas; Brinckman, Eric Maria; and Heugebaert, Frans Clement, 3,674,483.
 Vrancken, Marcel Nicolas; and Claeys, Daniel Alois, 3,679,410.
 Willems, Jozef Frans; Heugebaert, Frans Clement; and Brinckman, Eric Maria, 3,676,131.
 Agfa-Gevaert Aktiengesellschaft: See—
 Abeck, Wilhelm; Kober, Heinrich; and Seidel, Bernhard, 3,652,334.
 Ambraschka, Kasimir; and Bickl, Horst, 3,635,135.
 Ankenbrand, Fritz; Herrmann, Kurt; and Wilke, Werner G., 3,681,138.
 Bestenreiner, Friedrich; and Deml, Reinhold, 3,641,895.
 Bestenreiner, Friedrich; Lambeir, Sijlaan Rene; and Meeussen, Louis Achilles, 3,642,349.
 Bestenreiner, Friedrich; Deml, Reinhold; Greis, Ulrich; and Pfeifer, Josef, 3,644,019.
 Bestenreiner, Friedrich; Weiershausen, Walter; and Janovjak, Paul, 3,698,810.
 Browatzki, Kurt; Gref, Hans; Herzhoff, Peter; Maus, Fritz; Platz, Stephan; Schaum, Gustav; Schweicher, Wolfgang; and Wasser, Willi, 3,676,178.
 Credner, Hans-Heinrich; Glockner, Hans; and Nittel, Fritz, 3,652,286.
 Credner, Hans-Heinrich; Glockner, Hans; Muller, Fritz; and Kunitz, Friedrich Wilhelm, 3,658,537.
 Durr, Helmut, 3,641,888.
 Ehgartner, Gabriele; and Wilsch, Herbert, 3,697,018.
 Eichler, Wolfgang; and Bruck, Rolf, 3,688,738.
 Engel, Herbert; and Schnall, Gunther, 3,659,084.
 Engel, Herbert; Hartwig, Karl; and Schnall, Gunther, 3,667,840.
 Engel, Herbert; Hartwig, Karl; and Schnall, Gunther, 3,671,119.
 Engelsmann, Dieter; Hackenberg, Hubert; Putschger, Johann; and Strittmatter, Rolf, 3,643,100.
 Engelsmann, Dieter; Maas, Dieter; and Zattler, Kurt, 3,657,984.
 Engelsmann, Dieter; Maas, Dieter; Schroder, Rolf; and Linke, Gerda, 3,667,366.
 Engelsmann, Dieter; and Schroder, Rolf, 3,668,988.
 Engelsmann, Dieter; Hackenberg, Hubert; and Prummer, Helmut, 3,688,661.
 Engelsmann, Dieter; Hackenberg, Hubert; and Deeg, Karl, 3,706,268.
 Fauth, Gunter; and Spinnler, Rainer, 3,702,953.
 Fleissner, Josef, 3,690,186.
 Frank, Karl; and Jaeken, Jan, 3,660,092.
 Frankiewicz, Gerhard; and Wiesbeck, Franz, 3,631,979.
 Frick, Hans-Dieter; Geyken, Erwin; Dawidowitsch, Peter; and Schausberger, Helmut, 3,688,677.
 Frick, Hans-Dieter; Geyken, Erwin; Dawidowitsch, Peter; and Schausberger, Helmut, 3,693,528.
 Glockner, Hans; Meier, Ernst; and Puschel, Walter, 3,677,764.
 Grabhofer, Herbert; Himmelmann, Wolfgang; and Glabisch, Dietrich, 3,635,715.
 Green, Jeff, 3,690,761.
 Gunther, Hans; Konigl, Georg; and Kortner, Hans, 3,644,048.
 Hackenberg, Hubert; Zobel, Siegfried; Spinnler, Rainer; Becker, Erwin; and Engelsmann, Dieter, 3,633,477.
 Hackenberg, Hubert; and Nicko, Reinhard, 3,672,279.
 Hartwig, Karl; Engel, Herbert; and Schnall, Gunther, 3,672,764.
 Hellmig, Ehrhard; and Reckziegel, Erich, 3,663,220.
 Hellmig, Ehrhard, 3,676,122.
 Herzhoff, Peter; Platz, Stephan; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Browatzki, Kurt; and Gref, Hans, 3,635,192.
 Herzhoff, Peter; Gref, Hans; Behr, Rolf; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Friedsam, Josef; and Browatzki, Kurt, 3,638,604.
 Herzhoff, Peter; Schweicher, Wolfgang; Maus, Fritz; Wasser, Willi; Browatzki, Kurt; and Gref, Hans, 3,638,845.
 Herzhoff, Peter; Gref, Hans; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Browatzki, Kurt; and Friedsam, Josef, 3,645,773.
 Herzhoff, Peter; Gref, Hans; and Platz, Stephan, 3,654,899.
 Herzhoff, Peter; Gref, Hans; Maus, Fritz; Wasser, Willi; Friedsam, Josef; and Schweicher, Wolfgang, 3,663,292.
 Herzhoff, Peter; Gref, Hans; Wolfgang, Leverkusen; Frenken, Hans; Assenmacher, Peter; and Westen, Dietmar, 3,677,076.
 Herzhoff, Peter; Gref, Hans; Maus, Fritz; Wasser, Willi; Browatzki, Kurt; Friedsam, Josef; and Schweicher, Wolfgang, 3,682,679.
 Herzhoff, Peter; Platz, Stephan; Gref, Hans; Schwenger, Willi; Maus, Fritz; Schweicher, Wolfgang; Koepke, Gunther; Wasser, Willi; and Browatzki, Kurt, 3,690,917.
 Herzhoff, Peter; Gref, Hans; and Platz, Stephan, 3,695,218.
 Himmelmann, Wolfgang; Schranz, Karl-Wilhelm; Sobel, Johannes; and Van Veelen, George Frans, 3,676,143.
 Hofmann, Wilfried; and Pfeife Josef, 3,689,151.
 Huber, Hans-Peter, 3,640,619.
 Huber, Hans-Peter, 3,650,751.
 Huber, Hans-Peter, 3,698,303.
 Huckstadt, Harald; Saleck, Wilhelm; Randolph, August; Moll, Franz; and Ranz, Erwin, 3,640,715.
 Huckstadt, Harald; Saleck, Wilhelm; Randolph, August; and Moll, Franz, 3,647,469.
 Kabbe, Hans-Joachim; and von Konig, Anita, 3,695,880.
 Kampfer, Helmut; Ohlschlager, Hans; and Gesierich, Wolf, 3,635,706.
 Kampfer, Helmut; Riester, Oskar; and Gotze, Johannes, 3,660,103.
 Kampfer, Helmut; von Konig, Anita; Ranz, Erwin; von Rintelen, Harald; Mayer, Dietmar; and Sasse, Klaus, 3,674,479.
 Kampfer, Helmut; von Konig, Anita; Ranz, Erwin; von Rintelen, Harald; Mayer, Dietmar; and Sasse, Klaus, 3,674,480.
 Kisselmann, Willy; Rumpelstein, Fritz; and Kopf, Paul, 3,637,286.
 Kisselmann, Willy; Rumpelstein, Fritz; Kopf, Paul; and Landbrecht, Franz, 3,639,836.
 Kisselmann, Willy; Rumpelstein, Fritz; and Kopf, Paul, 3,696,295.
 Knapp, Walter; and Ramsauer, Kurt, 3,694,082.
 Kohler, Roland; Nagel, Erich; Hujer, Friedrich; and Viehrig, Wolfgang, 3,674,365.
 Kohler, Roland; Frick, Hans-Dieter; Fengler, Harald; and Geyken, Erwin, 3,678,843.
 Koffe, Boris; and Nagel, Erich, 3,646,870.
 Kraft, Werner; Kruck, Peter; Meyer, Rudolf; and Scheibitz, Maria, 3,690,885.
 Kremp, Rudolf; and Winkler, Alfred, 3,677,147.
 Kremp, Rudolf; and Hennig, Fridolin, 3,702,727.
 Kremp, Rudolf; Winkler, Alfred; and Hennig, Fridolin, 3,702,729.
 Kreuder, Manfred; Metzner, Wolfgang; Sobel, Johannes; Himmelmann, Wolfgang; and Nittel, Fritz, 3,687,671.
 Kunitz, Friedrich Wilhelm; Mader, Helmut; and Otto, Rigobert, 3,632,347.
 Kwiatkowski, Wolfgang, 3,691,926.
 Lermann, Peter, 3,705,536.
 Liebe, Werner; von Rintelen, Harald; Vanreusel, Gerard Laurens; and Vandeputte, Camille Angelina, 3,645,731.
 Liebe, Werner; Petersen, Siegfried; and von Konig, Anita, 3,671,242.
 Marx, Paul; Heb, Ulrich; Otto, Rigobert; Puschel, Walter; and Pelz, Willibald, 3,632,345.
 Matejec, Reinhart, 3,674,490.
 Matejec, Reinhart; and Ranz, Erwin, 3,694,207.
 Mayr, Helmut; Pelte, Richard; Hubert, Theo; and Strasser, Helmut, 3,676,759.
 Meeussen, Louis Achilles; Stievenart, Emile Frans; Schranz, Karl-Wilhelm; Busch, Josef; Froch, Siegfried; and Bruck, Herbert, 3,662,665.
 Moll, Franz; Posse, Rolf-Fred; and Ringe, Werner, 3,674,703.
 Mucke, Bruno; Lohmer, Karl; and Gold, Heinrich, 3,645,743.
 Muller, Manfred, 3,665,833.
 Muller, Rudolf, 3,698,312.
 Nassenstein, Heinrich, 3,635,540.
 Neudecker, Karl; and Winkler, Friedrich, 3,662,666.
 Neudecker, Karl; and Theer, Anton, 3,667,362.
 Neumann, Wolfram; Muller, Gerhard; Ranz, Erwin; von Rintelen, Harald; and Schutz, Heinz-Dieter, 3,671,252.
 Nittel, Fritz; Sobel, Johannes; and Himmelmann, Wolfgang, 3,705,805.
 Noemer, Ewald Fred; Kau, Franz J.; and Ludemann, Heinz, 3,661,458.
 Ohlschlager, Hans; and Riester, Oskar, 3,650,756.
 Ohlschlager, Hans; Riester, Oskar; and Meckl, Heinz, 3,702,767.
 Otto, Rigobert; Pankow, Gerrit; De Cat, Arthur Henri; Puschel, Walter; and Pelz, Willibald, 3,671,257.
 Paulus, Rudolf; and Huber, Hans-Peter, 3,699,349.
 Pelz, Willibald; Kabitzke, Karlheinz; Freytag, Karl-Heinz; Vetter, Hans; Danhauser, Justus; and Bockly, Erich, 3,684,513.
 Pfeifer, Josef; and Bickl, Horst, 3,649,120.
 Platz, Stephan; Herzhoff, Peter; and Gref, Hans, 3,650,292.
 Psaar, Hubertus; Puschel, Walter; and Raue, Roderich, 3,684,510.
 Putschger, Johann; Gersch, Josef; Wiedemann, Otto; and Winkler, Alfred, 3,665,829.
 Putschger, Johann, 3,705,538.
 Radl, Heldemar, 3,672,755.
 Ranz, Erwin; von Rintelen, Harald; Pfeiffenschneider, Raymund; and Voight, Armin, 3,637,388.
 Ranz, Erwin; Kampfer, Helmut; von Rintelen, Harald; Schutz, Heinz-Dieter; Mayer, Dietmar; and Sasse, Klaus, 3,660,093.
 Ranz, Erwin; von Rintelen, Harald; Neumann, Wolfram; and Muller, Gerhard, 3,681,075.
 Ranz, Erwin; von Rintelen, Harald; Schutz, Heinz-Dieter; Muller, Gerhard; and Neumann, Wolfram, 3,694,208.
 Ranz, Erwin; Weyde, Edith; and von Rintelen, Harald, 3,705,033.
 Rauffer, Walter, 3,679,202.
 Riester, Oskar, 3,660,102.

- Riester, Oskar, 3,687,678.
 Riester, Oskar; and Hase, Marie, 3,697,282.
 Rinberger, Helmut, 3,648,599.
 Rosenberg, Otto, 3,705,330.
 Saleck, Wilhelm; Himmelmann, Wolfgang; Meyer, Rudolf; Moll, Franz; and Huckstadt, Harlad, 3,637,391.
 Sauer, Theo; and Schulz, Gunter, 3,655,166.
 Sauer, Theo; Posse, Rolf-Fred; and Schulz, Gunter, 3,692,283.
 Sauer, Theo, 3,693,656.
 Scheibitz, Maria; Von Konig, Anita; Kampfer, Helmut; Mayer, Dietmar; Sasse, Klaus; Kolb, Gunter; Honig, Hans Ludwig; and Meiser, Werner, 3,690,884.
 Schmierl, Richard; and Maas, Dieter, 3,662,663.
 Schnall, Gunther; and Engel, Herbert, 3,672,665.
 Schneider, Othmar; Fergg, Berthold; and Zahn, Wolfgang, 3,632,206.
 Schruoff, Horst; Lehmann, Helmut; Siefen, Jakob; Mathner, Hermann; Adams, Willi; and Weiss, Gunter, 3,700,531.
 Schulte, Walter; Boie, Immo; Mader, Helmut; and Otto, Rigobert, 3,684,515.
 Schulz, Gunter; Himmelmann, Wolfgang; and Randolph, August, 3,676,144.
 Simm, Walter; and Muller, Rudolf, 3,673,598.
 Sobel, Johannes; Himmelmann, Wolfgang; and Meckl, Heinz, 3,689,274.
 Szostak, Roland; Hartwig, Karl; and Maurischat, Gunter, 3,705,289.
 Thate, Kurt; and Muller, Jurgen, 3,647,596.
 Theer, Anton; and Zanner, Johann, 3,656,842.
 Theer, Anton, 3,674,349.
 Theer, Anton, 3,706,427.
 Thorwest, Harald; Lehmann, Helmut; Lange, Helmut; Schlosssarek, Udo; Siefen, Jakob; and Mathner, Hermann, 3,688,567.
 Vetter, Hans; Danhauser, Justus; Kabitzke, Karlheinz; Marx, Paul; Melzer, Arnfried; Pelz, Willibald; and Puschel, Walter, 3,705,035.
 von Albedyll, Joachim; Wagner, Karl; and Huber, Hans-Peter, 3,631,778.
 von Fischern, Bernhard; Winkler, Alfred; Fuchsle, Klaus; Zanner, Johann, Jr.; and Ungnadner, Peter, 3,690,751.
 von Konig, Anita; Moll, Franz; Muller-Bardorff, Wolfgang; and Saleck, Wilhelm, 3,640,719.
 von Konig, Anita; and Timmler, Helmut, 3,647,451.
 von Konig, Anita; Liebe, Werner; and Timmler, Helmut, 3,674,481.
 von Konig, Anita; Kabbe, Hans-Joachim; Mader, Helmut; Otto, Rigobert; and Reuss, Helmut, 3,692,527.
 Von Sybel, Reinhard; Englesmann, Dieter; and Fauth, Gunter, 3,646,862.
 Wagner, Karl; and Ganser, Josef, 3,636,841.
 Wagner, Karl, 3,638,542.
 Wagner, Karl, 3,645,183.
 Wagner, Karl, 3,665,824.
 Wagner, Karl; and Ganser, Josef, 3,672,270.
 Wagner, Karl; and Nicolay, Klaus, 3,672,271.
 Wagner, Karl; and Durr, Helmut, 3,672,286.
 Wagner, Karl, 3,692,995.
 Wagner, Karl, 3,696,721.
 Wagner, Karl; and Von Fischern, Bernard, 3,699,857.
 Wagner, Karl; Nicolay, Klaus; Schuchardt, Gerhard; and Putscher, Johann, 3,705,539.
 Weyde, Edith; Ranz, Erwin; and Matejec, Reinhart, 3,684,511.
 Wiesner, Max; Sonne, Herbert; and Schmidt, Hans-Robert, 3,653,604.
 Wilsch, Herbert, 3,672,602.
 Wilsch, Herbert; and Muller, Hermann, 3,675,996.
 Winkler, Alfred; Theer, Anton; Zanner, Johann; and Hennig, Fridolin, 3,668,989.
 Winkler, Alfred; Wilsch, Herbert; and Winkler, Friedrich, 3,675,992.
 Winkler, Alfred, 3,699,860.
 Winkler, Alfred; and Wagensooner, Eduard, 3,702,728.
 Winkler, Alfred; Zanner, Johann; Fischern, Bernhard V.; and Fuchsle, Klaus, 3,704,941.
 Winkler, Friedrich; and Zanner, Johann, 3,655,278.
 Agfa-Gevaert, Mortsel-Belgium: See—
 De Schampelaere, Lucien Amede, 3,705,978.
 Agfa-Gevaert N.V.: See—
 De Cock, Etienne Marie, 3,697,759.
 Pollet, Robert Joseph; and Willems, Jozef Frans, 3,681,078.
 Poot, Albert Lucien, 3,681,074.
 Timmerman, Daniel Maurice; Verhille, Karel Eugene; and Van Paesschen, August Jean, 3,681,070.
 Vrancken, Marcel Nicolas; Vanreusel, Gerard Laurens; Van Pee, Paul Desire; and De Laet, Jules Maria, 3,672,892.
 Aggarwal, Trilok C.; and Hasz, John R., to Cincinnati Milacron Inc. Vibration absorber for a supported member. 3,690,414, 9-12-72, Cl. 188-1.00b.
 Aggen, George: See—
 Lula, Remus A.; Aggen, George; and Hammond, Charles M., 3,658,514.
 Aggen, George, to Allegheny Ludlum Steel Corporation. Ferritic stainless steel. 3,650,731, 3-21-72, Cl. 75-128.
 Aggias, Zissis, to Henkel & Cie G.m.b.H. Hardenable reaction products based on triglycidyl isocyanurate. 3,632,665, 1-4-72, Cl. 260-830.
 Aggias, Zissis, to Henkel & Cie G.m.b.H. Internally plasticized epoxide resins of triglycidyl isocyanurate, hydroxy functional urethane polymer and polycarboxylic acid anhydride. 3,674,892, 7-4-72, Cl. 260-835.000.
 Aghazadeh, Shirzad, to Singer Company, The, mesne. Digital encoding system wherein information is indicated by transition placement. 3,699,556, 10-17-72, Cl. 340-174.10g.
 Aghnides, Elie P. Spray producing device in which the output jets are aerated. 3,633,824, 1-11-72, Cl. 239-428.5.
 Agin, Gerald J., to International Business Machines Corporation. Digital velocity servo for D-C servo motor. 3,634,745, 1-11-72, Cl. 318-341.
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 AgMac, Inc.: See—
 Richter, John Edward; and Tiura, George Olavi, 3,693,331.
 AgMac Inc., mesne: See—
 Tiura, George O., 3,646,738.
 Agnew, Frank R.: See—
 Goldstein, Robert P.; and Agnew, Frank R., 3,697,227.
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 Hurt, Zeno, 3,653,203.
 Hurt, Zeno, 3,656,292.
 Agon Uhrenfabrik Robert Triebold A.G.: See—
 Hurt, Zeno, 3,686,884.
 Agonis, Henry A., to Anaconda Wire Cable Company. Coil pay off. 3,659,802, 5-2-72, Cl. 242-128.
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 Blatt, William F.; Agranat, Edward A.; and Rigopoulos, Peter N., 3,705,100.
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 Houston, Richard K., 3,643,442.
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 Hoover, Richard D.; and Kohler, George O., 3,674,770.
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 Chiulli, Angelo J.; and Wegman, Edwin H., 3,705,083.

- Agricultural Specialty Co., Inc.: See—
 Decker, Robert W.; and Mole, Robert F., 3,690,468.
 Agristee Limited: See—
 Gugin, Robert J., 3,677,349.
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 Aguirre, Enrique Renteria: See—
 Solomka, Monroe M.; and Aguirre, Enrique Renteria, 3,706,829.
 Aguirre, Michael C., to Honeywell Information Systems, Inc. Signal sampling circuit. 3,702,942, 11-14-72, Cl. 307-235.00r.
 Ahbert, Robert J.: See—
 Albert, Robert J.; and Hoge, John H. (said Hoge, assor. to said), 3,650,784.
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 Ahillen, William G.: See—
 Barrows, Richard G.; and Ahillen, William G., 3,633,134.
 Ahland, Erwin: See—
 Schmalfeld, Paul; Janssen, Heinrich; Bock, Burkhard; Peters, Werner; and Ahland, Erwin, 3,674,449.
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 Ahldea Corporation: See—
 Deaton, David W., 3,659,629.
 Deaton, David W., 3,682,168.
 Ahle, James L.: See—
 Doyle, William C., Jr.; and Ahle, James L., 3,650,728.
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 Ahlfeld, Charles E.: See—
 Baumann, Norman P.; and Ahlfeld, Charles E., 3,699,338.
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 Ahlgren, Nils Harald; and Jahr, Odd. Jack assemblies. 3,685,801, 8-22-72, Cl. 254-105.000.
 Ahlgrim, Michael: See—
 Kandler, Joachim; Mietens, Gerhard; and Ahlgrim, Michael, 3,653,947.
 Ahlgrim, Michael; Kandler, Joachim; Lenz, Hans-Joachim; Mietens, Gerhard; and Ott, Willy, to Knapsack Aktiengesellschaft. Surfacepretreatment of articles made from polyethylene or polypropylene or corresponding copolymers for chemical nickel-plating. 3,645,14, 3-7-72, Cl. 117-47.
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 Gesche, Gunter, 3,688,740.
 Ahlquist, Norman C.: See—
 Charlson, Robert J.; and Ahlquist, Norman C., 3,700,333.
 Ahlrich, Willard K. Baffled ventilating hood. 3,645,194, 2-29-72, Cl. 98-115.
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 Dorfel, Gerhard Walter, 3,648,342.
 Ahlstrom, A., Osakeyhtio, Karhula Works: See—
 Makela, Aarne Olavi, 3,649,446.
 Ahlstrom, Raymond C.: See—
 Anderson, Gordon H.; Lea, Albert; and Ahlstrom, Raymond C., 3,707,058.
 Ahmed, Kamal: See—
 Startin, Kenneth John; and Ahmed, Kamal, 3,675,188.
 Ahmed, Kamal, to AMP Incorporated, mesne. Terminal for aluminum wire. 3,633,153, 1-4-72, Cl. 339-97.
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 Ahrens, Guenter: See—
 Spinner, Georg; Luchring, Juergen; and Ahrens, Guenter, 3,654,577.
 Ahrens, Robert H.; Bartlett, John A.; Roberts, James S.; Schipper, Pieter W.; and Mills, Roy, to Milwaukee Chaplet & Mfg. Company, Inc. Serial section photography of organic material. 3,649,108, 3-14-72, Cl. 352-84.
 Ahrens, William J. Truck with sliding roof. 3,675,967, 7-11-72, Cl. 296-137.00b.
 Ahrens, William L.: See—
 Merrick, Edward V.; and Ahrens, William L., 3,648,589.
 Ahnholm, Par; Grune, Per-Olof; and Nygaard, Tore, to Allmanna Svenska Elektriska Aktiebolaget. Operating means for electric switching apparatus for high voltage. 3,683,142, 8-8-72, Cl. 200-148.00r.
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 Aichenegg, Paul C.: See—
 Emerson, Carl D.; and Aichenegg, Paul C., 3,641,109.
 Emerson, Carl D.; and Aichenegg, Paul C., 3,652,653.
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 Aichenegg, Paul C., to Chemagro Corporation. Phosphono thioester amides. 3,666,842, 5-30-72, Cl. 260-957.000.
 Aichenegg, Paul C., to Chemagro Corporation. Method of combating insects, fungi or nematode using phosphono thioester amides. 3,702,890, 11-14-72, Cl. 424-220.000.
 Aichi Clock and Electric Implement Mfg. Co., Ltd.: See—
 Inoue, Yutaka; Hotta, Tadao; and Ito, Toshihiko, 3,699,415.
 Aichi Steel Works Limited: See—
 Fukui, Hiroshi; Iwatsu, Gakuji; and Kato, Junichi, 3,705,718.
 Aichilithic Company, The: See—
 Winn, James Buchanan, Jr., 3,703,264.
 Aidlin, Samuel S.; and Aidlin, Stephen H. Separator-conveyor. 3,704,780, 12-5-72, Cl. 209-73.000.
 Aidlin, Stephen H.: See—
 Aidlin, Samuel S.; and Aidlin, Stephen H., 3,704,780.
 Aiduck, Carl Joseph; and Mancini, Ronald Alfred, to RCA Corporation. Zero crossing point switching circuit. 3,702,941, 11-14-72, Cl. 307-133.000.
 Aigner, Franz Xaver. Sterilizing apparatus. 3,632,303, 1-4-72, Cl. 21-93.
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 Aihara, Hiroshi: See—
 Furukawa, Hikaru; and Aihara, Hiroshi, 3,662,376.
 Aihara, Katuzo: See—
 Mitani, Masao; Aihara, Katuzo; Kudo, Mitsuhiro; Hara, Nobuhiro; Irie, Fujio; and Yamafuji, Kaoru, 3,697,826.
 Aihara, Kenzo, to Ikegai Tekko Kabushiki Kaisha (Ikegai Iron Works, Ltd.). Hydrostatic bearing assembly. 3,661,432, 5-9-72, Cl. 308-9.

- Aihara, Toru: See—
Ito, Yoshiyuki; and Aihara, Toru, 3,695,377.
- Aihara, Toru, to Caterpillar Mitsubishi Ltd. Cable winder on tractor. 3,632,906, 1-4-72, Cl. 191-12.2.
- Aijala, Sulo A. Torque release hand tool. 3,633,445, 1-11-72, Cl. 81-52.5.
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- Aikawa, Katsuaki: See—
Furuuchi, Shigemasa; and Aikawa, Katsuaki, 3,660,137.
- Aiken, Howard H. Cryptography. 3,657,476, 4-18-72, Cl. 178-22.
- Aiki, Shiego: See—
Kobayashi, Toyoaki; Mori, Yoshinori; and Aiki, Shiego, 3,692,151.
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Kobashi, Uichiro; Aiki, Shiego; and Hirai, Akiyoshi, 3,685,289.
- Aikinson, James D.; Lepley, James W.; Nussbaum, Claire E.; and Stolfus, John E. Fill pipe for silo. 3,675,796, 7-11-72, Cl. 214-17.00c.
- Aikoh Co., Ltd.: See—
Takashima, Masaru; Saito, Masao; Matsuyama, Shigeru; and Ueki, Kazufusa, 3,681,051.
- Ueki, Kazufusa, 3,681,050.
- Aikoku Kogyo Kabushiki Kaisha: See—
Ogasawara, Sadanori, 3,672,200.
- Ailman, David Edgar: See—
Addor, Roger Williams; and Ailman, David Edgar, 3,681,505.
- Addor, Roger Williams; and Ailman, David Edgar, 3,705,211.
- Aim Products, Inc.: See—
Kvalheim, Andrew M.; and Wassem, Howard M., 3,671,369.
- Ainslie, Dianne B.; and Crapsey, Arthur H., Jr., to Eastman Kodak Company. Camera format. 3,690,235, 9-12-72, Cl. 95-11.00c.
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- Ainsworth, Richard A., to International Business Machines Corporation. Sense amplifier latch for monolithic memories. 3,668,429, 6-6-72, Cl. 307-235.000.
- Ainsworth, Wm., Inc.: See—
Smith, James E.; Borgogno, Victor E.; and Luehr, Robert E., 3,684,875.
- Smith, James E.; and Borgogno, Victor F., 3,685,604.
- Air Advantage (Australia) Pty., Limited: See—
McIntosh, Ian Arthur; Bowers, Norman John; Bowers, Brian Alfred; and Miles, Bruce Robert, 3,682,253.
- Air Balance, Inc., mesne: See—
Tarnoff, Sherwin S., 3,682,084.
- Air Cargo Equipment Corporation: See—
Byrd, Chester L.; and Blackwell, Randal L., 3,692,203.
- Air Cargo Equipment Corporation, mesne: See—
Feddersen, Donald W.; and Markowski, Everett L., 3,672,529.
- Air Control Industries, Inc.: See—
McLain, Bruce H.; Sallee, John P.; and Ashton, Shirley B., 3,665,679.
- Air Cushion Vehicles, Inc.: See—
Ramsey, Harry E., 3,662,851.
- Air Factors, Inc.: See—
Lambert, Robert R., 3,688,680.
- Lambert, Robert R., 3,690,243.
- Air Guard Control of Canada Limited: See—
Winder, Gary C., 3,666,144.
- Air Iptake Renu: See—
Tobin, Benjamin F., III, 3,693,406.
- Air King Corporation: See—
Bobrick, Mitchell, 3,697,742.
- Bobrick, Mitchell, 3,700,885.
- Air Land Systems Co.: See—
Fleming, James Evans; Lovell, Clarence A.; and Bandle, James M., 3,665,468.
- Air Logistics Corporation: See—
Schirtzinger, Joseph F., 3,669,052.
- Schirtzinger, Joseph F., 3,686,048.
- Air Monitor Corporation: See—
De Baun, Kenneth W., 3,685,355.
- Air Plastic Service GmbH: See—
Stirzenbecher, George H., 3,697,728.
- Air Pollution Industries, Inc.: See—
Pike, Daniel E., 3,707,069.
- Air Preheater Company, Inc., The: See—
Bakker, Lubertus, 3,678,870.
- Gach, Francis X.; Fanton, Ralph E.; and Hazzard, Noel D., 3,699,905.
- Theoclitus, Gregory, 3,693,558.
- Wright, Jerry J.; and Curtis, William H., Jr., 3,643,056.
- Air Products and Chemicals, Inc.: See—
Barrer, Richard M.; Cole, John F.; and Sticher, Hans, 3,663,164.
- Barrer, Richard M.; and Cole, John F., 3,674,709.
- Beale, John H.; and Smith, William Mayo, Jr., 3,700,632.
- Cebalo, Tony; and Alderman, John F., 3,669,982.
- Cornelius, Edward B.; and Koester, David W., 3,665,049.
- Cornelius, Edward B.; and Koester, David W., 3,669,904.
- Furon, Leon D., 3,667,287.
- Green, Harold A., 3,632,427.
- Green, Harold A., 3,637,417.
- Green, Harold A.; and Petrella, Robert G., 3,642,649.
- Green, Harold A., 3,642,698.
- Holland, Dewey G.; and Garis, Eric Vernon, 3,683,036.
- Holland, Dewey G.; and Polevy, John H., 3,686,288.
- Holland, Dewey G.; Moyer, Ronald C.; Polevy, John H.; and Walde, Robert A., 3,699,156.
- Holland, Dewey George, 3,692,643.
- Hornbeck, Clarence J., 3,656,583.
- Hornbeck, Clarence J., 3,692,206.
- Johnson, Glenn B.; and Petering, John L., 3,698,200.
- Kadi, Frank J.; Longworth, Ralph C.; and Meier, Richard N., 3,706,208.
- Klasson, George A., 3,632,951.
- Kucirka, John F., 3,654,318.
- Longworth, Ralph C., 3,696,627.
- Macarus, David P.; Upson, Lawrence L.; and Wood, Ronald T., 3,642,662.
- Miller, Keith A., 3,680,785.
- Moyer, Ronald C.; and Uffner, Melville W., 3,664,987.
- Moyer, Ronald C.; and Uffner, Melville W., 3,706,590.
- Ness, Leif A.; and Thomas, Edmund P., 3,657,898.
- Ness, Leif A.; and Thomas, Edmund P., 3,696,637.
- Robba, William A.; and Klasson, George A., 3,697,721.
- Rohrberg, Roderick, 3,649,805.
- Stowasser, William F.; and Miller, Keith A., 3,672,182.
- Uffner, Melville W., 3,674,757.
- Upson, Lawrence L.; and Wood, Ronald T., 3,663,456.
- Air Products and Chemicals, Inc., mesne: See—
Heiberger, Charles A.; and Mottern, Henry O., 3,670,056.
- Hoffman, Joseph K.; and Russell, James P., 3,642,876.
- Hoffman, Joseph K.; and Russell, James P., 3,647,862.
- Krueger, Paul C., 3,681,265.
- Lindemann, Martin K.; and Volpe, Rocco P., 3,645,952.
- Mottern, Henry O.; and Russell, James P., 3,642,878.
- Tedeschi, Robert J.; and McMahon, Herbert C., 3,636,167.
- Tedeschi, Robert J.; and Natali, Paul W., 3,642,640.
- Tedeschi, Robert J.; and Natali, Paul W., 3,642,641.
- Tedeschi, Robert J.; and Natali, Paul W., 3,655,571.
- Tedeschi, Robert J., 3,663,628.
- Air Reduction Company, Incorporated: See—
Bryant, Gerald T.; and Mayfield, James L., 3,635,599.
- Chadwick, George F., 3,689,618.
- Croix, Louis S., 3,637,477.
- Duron, Paul P.; and Rich, Harold T., 3,670,516.
- Firestone, Alexander H.; Fisk, Robert W.; and Kennedy, Kurt D., 3,655,902.
- Halfon, Albert, 3,690,040.
- Harker, Howard R.; and Humberstone, Geoffrey H., 3,690,635.
- Hay, Wayne W.; and Thompson, Charles S., 3,633,606.
- Hunt, Charles D'A., 3,652,325.
- Laird, William Burton; Williams, Roy L.; and Muska, Allen V., 3,671,022.
- Lewis, John G., 3,646,240.
- McNabney, Ralph; and Huibers, Derk Th. A., 3,654,126.
- Michals, Chester S.; and Motroni, Philip J., 3,640,166.
- Miller, Henry A., 3,682,437.
- Moen, Walter B.; and Spies, George R., 3,650,290.
- Nichols, Kenneth E., 3,635,581.
- Parks, Charles F., 3,700,606.
- Schrader, Robert L., 3,641,973.
- Shepherd, Thomas L., 3,685,740.
- Sielaff, Ulrich, 3,642,026.
- Smith, Hugh R., Jr., 3,654,108.
- Tsujimoto, Kazumi N., 3,701,915.
- Van Loan, Paul R., 3,682,840.
- Wallouch, Rudolph W., 3,642,962.
- Air Reduction Company, Incorporated, mesne: See—
Rhum, David; and Weintraub, Lester, 3,651,020.
- Air Techniques Incorporated: See—
Kauer, George C., Jr.; and Brooks, Louis E., 3,659,399.
- Air-Ject Corporation: See—
Mueller, John J., 3,656,660.
- Air-Lock Plastic, Inc.: See—
Confer, Raymond C.; and Talmon, Floyd H., 3,705,931.
- Air-Shields, Inc.: See—
Crowley, Charles L.; Grosholz, James R.; and Hutter, Charles G., III, 3,675,653.
- Air-Way Manufacturing Company: See—
Jaquette, Robert D., 3,665,578.

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- Aircheck, Inc.: See—
Schoenbrod, Michael P., 3,688,340.
- Airco Alloys AB: See—
Fabo, Endre, 3,684,479.
- Airco, Inc.: See—
Bryant, Gerald T.; Linhardt, Hans D.; and Nichols, Kenneth E., 3,696,975.
- Gray, Bronis G., 3,701,517.
- Hay, Wayne W., 3,703,172.
- Hunt, Charles D'A., 3,658,116.
- Hunt, Charles D'A.; and De Haven, Reese R., Jr., 3,658,119.
- Mc Cafferty, William Eugene, 3,666,688.
- Ormand, Frederick T.; and Auger, Huey V., 3,676,563.
- Poulsen, Stephen D., Jr., 3,670,914.
- Schrader, Robert L., 3,656,454.
- Schrader, Robert Leland, 3,662,708.
- Sielaff, Ulrich, 3,659,605.
- Terrell, Ross C., 3,663,714.
- Terrell, Ross C., 3,663,715.
- Terrell, Ross C., 3,666,864.
- Tibbetts, Alan R.; and Tucker, Donald R., 3,672,446.
- Trask, Robert B.; and Smith, Mark J., 3,658,476.
- Wallouch, Rudolph W., 3,706,596.
- Wasson, John H.; Sherry, John S.; and Kayser, John P., 3,699,235.
- Airco, Inc., mesne: See—
Bauer, Helmut, 3,661,173.
- Airco/Boc Cryogenic Plants Corporation: See—
Foster, Kenneth M.; and Lofredo, Antony, 3,653,220.
- Aircraft Mechanics, Inc.: See—
Pearne, Frank S.; and Pearne, Florentin J., 3,656,634.
- Aird, Alanson D., to General Electric Company. Method of manufacturing a semiconductor device utilizing a flexible carrier. 3,689,991, 9-12-72, Cl. 29-577.000.
- Airdo, Joseph, to Bishop Freeman Company. Fiber surfaced garment and fabric pressing device. 3,662,479, 5-16-72, Cl. 38-66.
- Aires, Ramon Hess: See—
Gamble, Edward Bernard; and Aires, Ramon Hess, 3,641,368.
- Airey, John M., to GTE Laboratories, Incorporated. Transistorized voltage regulator circuit. 3,656,050, 4-11-72, Cl. 322-28.
- Airhart, Robert V.: See—
Balogh, Edward, Jr.; Cook, Daewen J.; Bube, Carl E.; and Airhart, Robert V., 3,688,263.
- Airheart, Franklin B., to Airheart Products, Inc. Motion damper. 3,690,413, 9-12-72, Cl. 188-1.00b.
- Airheart, Franklin B., to Airheart Products, Inc. Wear compensated, force multiplying disc brake. 3,690,417, 9-12-72, Cl. 188-71.800.
- Airheart, Franklin B., to Airheart Products, Inc. Resettable, fail-safe disc brake system. 3,701,399, 10-31-72, Cl. 188-71.800.
- Airheart Products, Inc.: See—
Airheart, Franklin B., 3,690,413.
- Airheart, Franklin B., 3,690,417.
- Airheart, Franklin B., 3,701,399.
- Martins, Samuel J., 3,701,398.
- Airline Systems, Inc.: See—
Engel, Harry C.; and Ardolino, Edward J., 3,661,683.
- Airola, Aito Kasimir; and Saarinen, Martti Kaarlo Johannes, to Oy Airam AB. Mercury dosage device. 3,650,304, 3-21-72, Cl. 141-2.
- Airport Corporation: See—
Cohen, Arthur M., 3,638,769.
- Airtex Corporation, mesne: See—
Beck, Edward G., Jr., 3,703,758.
- Airtex Products; division of United Industrial Syndicate: See—
Ulm, Ralph E.; Phillips, Claude F.; Sullivan, Michael J.; Collins, Larry C.; and Parrent, William Russell, 3,666,381.
- Aisan Kogyo Co., Ltd.: See—
Arikawa, Toshinori, 3,648,987.
- Uozumi, Junzo; and Iwata, Junki, 3,661,129.
- Aisenberg, Sol; and Chang, Kuo Wei, to Space Sciences Incorporated. Magnetohydrodynamic generator. 3,660,700, 5-2-72, Cl. 310-11.
- Aisenberg, Sol; and Dodge, James B., to Whittaker Corporation, mesne. Extrusion system. 3,675,451, 7-11-72, Cl. 72-20.000.
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Fujisaki, Yoshisato; Aishima, Itsuho; Sakurai, Hisaya; Kitaoka, Atsushi; Kawasaki, Hironobu; and Oshima, Minoru, 3,632,670.
- Aishima, Itsuho; Sakurai, Hisaya; Kitaoka, Atsushi; and Katayama, Yoshihiko. Blend of ethylene polymer, crystalline polypropylene polymer and crystalline ethylene-propylene block copolymer. 3,632,674, 1-4-72, Cl. 260-876.
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Kobayashi, Toyoaki; Mori, Yoshinori; and Aiki, Shiego, 3,692,151.
- Aisin Seiki Company Limited: See—
Inada, Masami; Hayashi, Tatsuo; and Takayama, Katuki, 3,650,573.
- Inada, Masami; and Hayashi, Tatsuo, 3,685,867.
- Kawabe, Tsuneo; and Takeshita, Hiroshi, 3,684,329.
- Kazaoka, Kenichi; and Jindo, Takashi, 3,667,791.
- Kitano, Shin; and Momose, Yutaka, 3,637,243.
- Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara, Yoshiteru; and Asakura, Kouichi, 3,668,917.
- Okamoto, Toshiaki; Inada, Masami; and Mori, Koziro, 3,650,574.
- Okamoto, Tosiaki, 3,637,057.
- Okamoto, Tosiaki; Inada, Masami; Takayama, Katuki; Hayashi, Tatsuo; Nishida, Koji; Sakakibara, Naoji; and Kamiya, Masao, 3,656,817.
- Okamoto, Tosiaki; and Inada, Masami, 3,667,811.
- Okamoto, Tosiaki; Mori, Koziro; Yamazaki, Hayao; Abu, Takao; and Sato, Takefumi, 3,706,971.
- Torii, Nozomu, 3,667,792.
- Aisin Seiki Kabushiki Kaisha: See—
Fujita, Saburo; Ban, Hiroshi; and Takikawa, Yukio, 3,702,651.
- Hayashi, Masaharu, 3,642,382.
- Hikida, Ryotaro; Awano, Taikichi; Itoh, Junichiro; Danno, Atsushi; Matsui, Masao; Inaba, Mitigi; and Isogai, Mituyuki, 3,683,659.
- Hirozawa, Koichiro, 3,662,621.
- Hirozawa, Koichiro, 3,675,512.
- Hirozawa, Koichiro; and Asano, Tadao, 3,677,104.
- Hirozawa, Koichiro; and Takahashi, Shigeo, 3,677,277.
- Hirozawa, Koichiro, 3,693,605.
- Hirozawa, Koichiro; and Takahashi, Shigeo, 3,704,768.
- Inose, Hideo, 3,706,262.
- Ishikawa, Kazuo, 3,631,948.
- Kawabe, Tsuneo; Miyake, Hirotaka; and Ban, Masasi, 3,650,569.
- Kawabe, Tsuneo; and Kobayashi, Toyoaki, 3,656,589.
- Kawabe, Tsuneo, 3,679,030.
- Kawabe, Tsuneo; Suzuki, Kouichi; and Miyake, Hirotaka, 3,689,121.
- Kawabe, Tsuneo, 3,693,146.
- Kawai, Shinji, 3,701,616.
- Kawakami, Eiichi, 3,680,900.
- Kitano, Shin; Momose, Yutaka; Ishikawa, Kazuo; and Hida, Takashi, 3,656,600.
- Kitano, Shin; and Momose, Yutaka, 3,659,690.
- Kitano, Shin; and Momose, Yutaka, 3,696,897.
- Kito, Masahiro, 3,661,429.
- Kito, Masahiro, 3,684,330.
- Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara, Yoshiteru; and Asakura, Kouichi, 3,703,093.
- Kondo, Toshio, 3,661,232.
- Kondo, Toshio, 3,707,207.
- Kuno, Syozo, 3,707,211.
- Kuromitsu, Hiromu, 3,692,367.
- Miyai, Masaya, 3,698,190.
- Mori, Miyoshi; and Takasu, Shozo, 3,641,788.
- Murakami, Noboru; and Hirozawa, Koichiro, 3,672,243.
- Nyunoya, Mizuo, 3,706,360.
- Nyunoya, Mizuo; and Yokoi, Masatada, 3,707,210.
- Ochiai, Chiaki; and Fujii, Takashi, 3,662,552.
- Okuyama, Teiji, 3,659,870.
- Ono, Takeshi, 3,673,971.
- Sakakibara, Naoji, 3,670,174.
- Sakashita, Hitoshi; and Mitsui, Tsutomu, 3,695,198.
- Sawada, Oshio, 3,696,769.
- Sawada, Toshio, 3,670,676.
- Tsubouchi, Kaoru, 3,654,956.
- Tsubouchi, Kaoru, 3,680,044.
- Ueda, Atsumi, 3,632,230.
- Watabe, Shigeru; and Ohmi, Atsushi, 3,678,687.
- Yamazaki, Shinichiro, 3,693,937.
- Yamazaki, Toshio; Abu, Takao; Sato, Takefumi; Nishida, Koji; and Okamoto, Tosiaki, 3,652,133.
- Yoshimura, Noboru, 3,705,738.
- A.I.T. Industries, Inc.: See—
Stern, Theodore J., 3,673,738.
- Aitchison, Thomas Edmondston. Evaporators. 3,654,981, 4-11-72, Cl. 159-6.
- Aitken, Thomas; Anderson, Donald R.; and Jursich, Myron J., to Nalco Chemical Company. Cationization of starch for filler retention utilizing a cationic polyepihalohydrin-tertiary amine polymer. 3,674,725, 7-4-72, Cl. 260-9.000.
- Aitkenhead, William C.: See—
Grunig, James K.; Davis, William B.; and Aitkenhead, William C., 3,685,961.

Grunig, James K.; Davis, William B.; and Aitkenhead, William C., 3,699,208.
 Grunig, James K.; Davis, William B.; and Aitkenhead, William C., 3,704,091.
 Aiuppa, Francesco. Turf roller for tractor. 3,662,657, 5-16-72, Cl. 94-50.00r.
 Aiuppa, Francesco. Lawn sweeper. 3,676,886, 7-18-72, Cl. 15-83.000.
 Aizawa, Hiroshi: See—
 Ogiso, Mitsutoshi; and Aizawa, Hiroshi, 3,688,669.
 Aizawa, Horoshi; and Ogiso, Mitsutoshi, to Cannon Kabushiki Kaisha. Electric driving device for a camera. 3,656,420, 4-18-72, Cl. 95-31.
 Aizawa, Kensuke: See—
 Kato, Mahiko; Saito, Isamu; and Aizawa, Kensuke, 3,631,717.
 Aizawa, Shojiro: See—
 Misato, Tomomasa; Huang, Keng Tang; Shirato, Shiroh; Seino, Akio; Nakamura, Yuko; Aizawa, Shojiro; and Taguchi, Ryusuke, 3,657,422.
 Aizawa, Susumu; Nakamura, Koichi; Tsuruishi, Yuki; and Oguchi, Kikuo, to Kabushiki Kaisha Suwa Seikosha. Electric timepiece. 3,648,453, 3-14-72, Cl. 58-23.
 Aizawa, Tatsuo: See—
 Nihyakumen, Kouzi; Yokoyama, Taizo; Ueda, Yasuo; Kamezawa, Yasutoki; and Aizawa, Tatsuo, 3,653,903.
 Washio, Takaji; Tohi, Yasusuke; and Aizawa, Tatsuo, 3,695,754.
 Ajar, Charles. Motion picture projector soundtrack movement. 3,650,610, 3-21-72, Cl. 352-31.
 Ajax Flexible Coupling Co., Inc.: See—
 McAllister, George F., Jr., 3,655,045.
 Ajax Hardware Manufacturing Corporation: See—
 Gewertz, Harry R.; and Read, George D., 3,640,558.
 Holmes, Frank; Arias, Henry, Jr.; and Read, George, 3,675,883.
 Read, George D., 3,633,955.
 Ajax Magnethermic Corporation: See—
 Amend, Clifford L., 3,675,908.
 Havas, George; and Dewan, Shashi Bhushan, 3,686,558.
 Howell, Charles N., 3,689,726.
 Synnesteid, Don A., 3,704,336.
 Ajax Manufacturing Company, The: See—
 Mersek, Leo D.; and Backus, Robert G., 3,688,545.
 Ajax Tool Works, Inc.: See—
 Benedict, Neil W., Jr., 3,673,686.
 Ajem Associates, Inc.: See—
 Leff, Millard; Malazinsky, Joseph Daniel; and Weigel, Earl Howard, 3,661,469.
 Ajem Laboratories, Inc.: See—
 Frundl, Ronald J.; Hanson, Victor W.; Jamison, Robert M.; and Arnold, Orlan M., 3,666,248.
 Ajfro, Fortunato S.: See—
 Gottfried, Reuter; and Ajfro, Fortunato S., 3,687,227.
 Ajichi, Yoshio: See—
 Kawakami, Takaya; Kitamura, Toshinori; Ajichi, Yoshio; and Ono, Masayoshi, 3,706,949.
 Kitamura, Toshinori; Ajichi, Yoshio; Miyata, Itaru; and Ono, Masayoshi, 3,683,244.
 Ajinomoto Co., Inc.: See—
 Akamatsu, Akira; Togo, Kazushi; and Kida, Yoko, 3,669,717.
 Akamatsu, Akira; Takagi, Yasuo; Iwatsuki, Makoto; Kida, Yoko; and Takeshita, Kazuhisa, 3,695,822.
 Ariyoshi, Yasuo; Yamatani, Tetsuo; Uchiyama, Noboru; and Sato, Naotake, 3,678,026.
 Hanaoka, Takemi; Kakehashi, Toshiro; Toyomasu, Ryota; and Yata, Tomio, 3,704,316.
 Ikeda, Shigeo; Ishizaki, Ayaaki; Hirose, Yoshio; and Shiro, Teruo, 3,674,639.
 Ishida, Moriyo; Hori, Terutsugu; Otsuka, Yuzuru; Sato, Kunimitsu; Inoue, Katsuyuki; and Ogata, Yoshio, 3,702,341.
 Ito, Kenkichi; Mizoguchi, Naomasa; Dazai, Miyoji; and Sato, Osahiro, 3,646,082.
 Ito, Tomiyasu; Nagata, Koichiro; Ichikawa, Takehiko; and Kato, Tetsuya, 3,641,003.
 Kakuta, Hiroshi, 3,664,854.
 Kono, Kageaki; Oki, Toshikazu; Kitai, Atsuo; and Ozaki, Asaichiro, 3,663,370.
 Kubota, Koji; and Shiro, Teruo, 3,661,711.
 Maeda, Itsutoshi; Miyayashiki, Hideshi; and Yoshida, Ryonosuke, 3,646,061.
 Maeda, Itsutoshi; Nomura, Yasuichi; Hashimoto, Kohei; Shimizu, Akira; Mitsugi, Koji; and Yoshida, Ryonosuke, 3,707,505.
 Matsui, Yoshinari; Hara, Minoru; and Komachiya, Yoshioki, 3,642,888.
 Mitsugi, Koji; Nakase, Takashi; and Hasegawa, Yoshisuke, 3,677,898.
 Nagai, Toshiaki; and Yamaura, Isao, 3,639,467.
 Okumura, Shinji; Otsuke, Shinichiro; Yamanoi, Akio; Yoshinaga, Fumihiko; Honda, Takeshi; Kubota, Koji; and Tsuchida, Takayasu, 3,660,235.

Shiio, Isamu; and Sato, Hiroko, 3,700,559.
 Shiio, Isamu; Sano, Konosuke; and Nakamori, Shigeru, 3,707,441.
 Shimazaki, Hideo; Tsukamoto, Shuji; Saito, Tadaomi; Eguchi, Sadanari; and Komata, Yasushi, 3,647,825.
 Shirakawa, Tadashi; Inagaki, Tohru; Suzuki, Tadao; and Ogawa, Koji, 3,649,205.
 Shiro, Teruo; Takinami, Koichi; Akutsu, Eiichi; Yoshii, Hiroe; and Yamada, Yasutsugu, 3,704,205.
 Takeda, Yoshifumi; Takagi, Yasuo; and Mori, Shiego, 3,634,544.
 Wakamatsu, Hachiro; Okami, Taketoshi; and Sato, Jiro, 3,683,019.
 Yamada, Yoshitaka; Sakurai, Moritaro; and Kumashiro, Izumi, 3,671,649.
 Yamashita, Takashi; Chida, Yugo; Ninagawa, Sadayoshi; and Kato, Tetsuya, 3,704,317.
 Yamazaki, Akihiro; Furukawa, Teruo; and Kumashiro, Izumi, 3,678,030.
 Yoshida, Ryonosuke; Takehara, Masahiro; Akiba, Hitoshi; and Usuba, Yasunori, 3,663,459.
 Yoshimura, Ippei; Fukue, Norihiko; Sakamoto, Hiroshi; Murfushi, Hisashi; Hiyaama, Takami; and Matsunaga, Takao, 3,679,707.
 Ajioaka, James S., to Hughes Aircraft Company. Multichannel rotary joint supportive of energy in at least three mutually orthogonal circularly symmetric waveguide modes simultaneously. 3,633,130, 1-4-72, Cl. 333-21.
 Ajioaka, James S., to Hughes Aircraft Company. Shaped beam antenna for earth coverage from a stabilized satellite. 3,633,208, 1-4-72, Cl. 343-778.
 Ajioaka, James S.; and Rosen, Harold A., to Hughes Aircraft Company. Shaped beam antenna. 3,680,143, 7-25-72, Cl. 343-778.000.
 Ajmani, Mohan; DeLowe, Larry K.; and Hankins, Thomas C., to Systron-Donner Corporation. Security alarm system. 3,662,383, 5-9-72, Cl. 340-409.
 Akachi, Tuichi: See—
 Ichikawa, Yataro; Yamashita, Gentaro; and Akachi, Tuichi, 3,660,476.
 Akagi, Saburo: See—
 Murayama, Keisuke; Morimura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro, 3,645,965.
 Akahide, Kozo: See—
 Saito, Tatsuo; Akahide, Kozo; and Ukebe, Teruo, 3,704,358.
 Akahori, Hiroshi; Ohnuma, Yoshiro; and Kubozoe, Morioki, to Hitachi, Ltd. Electron beam generator for electron microscope or the like apparatus. 3,636,346, 1-18-72, Cl. 250-49.5.
 Akai Electric Company Limited: See—
 Atsumi, Katsuya, 3,643,895.
 Homma, Ku, 3,684,839.
 Nagano, Masahiko, 3,657,624.
 Nakano, Tatsumi, 3,652,030.
 Sato, Fujio; and Homma, Ko, 3,686,466.
 Sato, Noboru; and Nakano, Tatsumi, 3,636,275.
 Akai, Shin-ichi; and Aoyagi, Katsunosuke, to Sumitomo Electric Industries, Ltd. Method of manufacturing semiconducting compounds by vapor growth method. 3,690,846, 9-12-72, Cl. 23-294.000.
 Akai, Seiji; and Morinaga, Akira, to Nissan Motor Company Limited and Atsugi Motor Parts Company, Limited. Apparatus for separating lubricant from a refrigerant lubricant mixture in a reciprocating type automotive air conditioner compressor. 3,676,024, 7-11-72, Cl. 417-372.000.
 Akaishi, Takao: See—
 Ohmae, Kenji; Hirano, Tomiyoshi; and Akaishi, Takao, 3,662,208.
 Akamatsu, Akira; Togo, Kazushi; and Kida, Yoko, to Ajinomoto Co., Inc. Method of coating shaped articles of plasticized polyvinyl chloride. 3,669,717, 6-13-72, Cl. 117-72.000.
 Akamatsu, Akira; Takagi, Yasuo; Iwatsuki, Makoto; Kida, Yoko; and Takeshita, Kazuhisa, to Ajinomoto Co., Inc. Method of coloring a shaped body of poly- γ -alkyl glutamate. 3,695,822, 10-3-72, Cl. 8-4.000.
 Akamatsu, Kiyoshi; and Fukui, Hisaaki, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for preparing steric block with liquid photopolymerizable composition. 3,663,222, 5-16-72, Cl. 96-35.100.
 Akamatsu, Kiyoshi; Maruta, Masayasu; and Yonekura, Yasushi, to Asahi Kasei Kogyo Kabushiki Kaisha. Apparatus for the preparation of printing plate of photosensitive resin. 3,687,785, 8-29-72, Cl. 156-501.000.
 Akamatsu, Masahiko: See—
 Dhno, Eiichi; and Akamatsu, Masahiko, 3,665,286.
 Akamatsu, Masahiko, to Mitsubishi Denki Kabushiki Kaisha. Power control system. 3,683,267, 8-8-72, Cl. 321-45.000.
 Akamatsu, Susumu, 1/2% to Susumu, Akamatsu and 1/2% to Mitsubishi Kasei Kogyo Kabushiki Kaisha; a/t/a Mitsubishi Chemical Industries Limited. Method for the continuous manufacture of corrugated cardboard of synthetic resin. 3,682,736, 8-8-72, Cl. 156-210.00.

Akamatsu, Takashi: See—
 Hotta, Seiji; Nakano, Tomio; Kenmochi, Hirohito; and Akamatsu, Takashi, 3,636,064.
 Kenmochi, Hirohito; Hotta, Seiji; and Akamatsu, Takashi, 3,632,611.
 Kenmochi, Hirohito; Hotta, Seiji; and Akamatsu, Takashi, 3,663,537.
 Koga, Koichi; Hatori, Minoru; and Akamatsu, Takashi, 3,671,543.
 Koga, Koichi; Suda, Hideaki; and Akamatsu, Takashi, 3,691,203.
 Yamada, Eiji; Hamaguchi, Kunimasa; and Akamatsu, Takashi, 3,636,008.
 Yamada, Eiji; Yamaguchi, Kiichiro; and Akamatsu, Takashi, 3,649,645.
 Akamatsu, Toshiaki; and Honda, Shou, to Toyota Jidosha Kogyo Kabushiki Kaisha. Steering gear. 3,633,438, 1-11-72, Cl. 74-500.
 Akano, Akimi: See—
 Inouye, Ryuichiro; Nishikawa, Manaka; and Akano, Akimi, 3,650,981.
 Akanuma, Kaneco: See—
 Urushiyama, Nobuo; Koshiishi, Hiromichi; and Akanuma, Kaneco, 3,632,362.
 Akao, Mutsuo: See—
 Tatsuta, Sumitaka; Ueno, Wataru; Tajima, Tatsuya; and Akao, Mutsuo, 3,697,305.
 Akasaka, Shigeo, to Nippon Kogaku K.K. Automatic film sensitivity setting device. 3,636,847, 1-25-72, Cl. 95-31.
 Akasaka, Tadashi: See—
 Yasuda, Yukitomo; Akasaka, Tadashi; Nishikawa, Yasuhisa; and Magi, Mamoru, 3,634,791.
 Akasaki, Isamu, to Matsushita Electric Industrial Co., Ltd. Process of fabricating electroluminescent element. 3,649,383, 3-14-72, Cl. 148-171.
 Akashi, Goro; and Yamada, Yasuyuki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 3,634,137, 1-11-72, Cl. 117-235.
 Akashi, Goro; Fujiyama, Masaaki; Hirakawa, Takashi; and Suzuki, Osamu, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 3,634,253, 1-11-72, Cl. 252-62.54.
 Akashi, Goro; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 3,653,962, 4-4-72, Cl. 117-240.
 Akashi, Goro; Suzuki, Osamu; and Nakamura, Matsuaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 3,676,217, 7-11-72, Cl. 117-239.000.
 Akashi, Goro; and Yamada, Odawara, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 3,689,317, 9-5-72, Cl. 117-249.000.
 Akashi, Naotomo: See—
 Ito, Kunihiko; Fujimoto, Yukiya; Ohsato, Nobuyoshi; and Akashi, Naotomo, 3,661,548.
 Akashi, Tsuneo: See—
 Ohno, Tomeji; Takahashi, Masao; Akashi, Tsuneo; and Tsubouchi, Norio, 3,654,160.
 Sugano, Izuru; Akashi, Tsuneo; Matsubara, Tetsujin; Kenmoku, Yoshihiro; and Okuda, Taneaki, 3,652,416.
 Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo, 3,699,045.
 Akashi, Tsuneo; Sugano, Izuru; Okuda, Taneaki; Onoda, Yoshihiro; and Tsuji, Toshiro, to Nippon Electric Company, Limited. Heat treating sintered manganese-zinc ferrites to improve properties. 3,655,841, 4-11-72, Cl. 264-66.
 Akashiba, Takeo: See—
 Suzuki, Saburo; Isono, Kiyoshi; Nagatsu, Junsaku; Akashiba, Takeo; and Sasaki, Shigeki, 3,700,655.
 Akatsu, Mitsuharu; Kinoshita, Tomoo; and Iwasaki, Tadahiko, to Hitachi, Ltd. High voltage regulating circuit. 3,706,003, 12-12-72, Cl. 315-18.000.
 Akatsu, Mitsuhiro: See—
 Inaba, Shigeo; Akatsu, Mitsuhiro; and Yamamoto, Hisao, 3,674,808.
 Yamamoto, Hisao; Inaba, Shigeo; Hirohashi, Toshiyuki; Akatsu, Mitsuhiro; Maruyama, Isamu; and Izumi, Takahiro, 3,634,402.
 Yamamoto, Hisao; Kitagawa, Sumio; Inaba, Shigeo; Sakai, Shigeru; Hirohashi, Toshiyuki; Maruyama, Isamu; Akatsu, Mitsuhiro; and Izumi, Takahiro, 3,641,002.
 Akatsuka, Minoru: See—
 Nakamura, Masakatsu; Yonezawa, Toshio; Kato, Taketoshi; Watanabe, Masaharu; and Akatsuka, Minoru, 3,694,707.
 Akazawa, Hakuichi; Washio, Shigeaki; Kaji, Keiji; and Fujita, Shisao, to Taki Fertilizer Manufacturing Co., Ltd. Production of gypsum. 3,645,677, 2-29-72, Cl. 23-122.
 Akazawa, Hakuichi; and Washio, Shigeaki, to Taki Fertilizer Manufacturing Co., Ltd. Production of chromium-containing phosphoric acid or phosphate solution. 3,652,204, 3-28-72, Cl. 23-105.
 Akazome, Teizo: See—
 Abe, Zenmon; Suzuki, Takaji; Tsunoka, Masayuki; Kimura, Eiichi; Akazome, Teizo; Obayashi, Kanji; and Kasai, Gengo, 3,658,055.
 Ake, Nelson E.; and Kling, Harry C., to International Telephone and Telegraph Corporation. Method for sorting die. 3,698,976, 10-17-72, Cl. 156-155.000.

Akechi Taikarengs Kabushiki Kaisha: See—
 Nakamura, Toshio; and Ozeki, Hidekichi, 3,682,686.
 Akedo, Youichi: See—
 Ishikawa, Hajime; Akedo, Youichi; and Kominami, Toshio, 3,658,625.
 Akeley, Lloyd T., to Simmonds Precision Products, Inc. Engine shut-off control system with timer buzzer tell-tale package. 3,656,101, 4-11-72, Cl. 340-55.
 Akeley, Lloyd T., to Beckman Instruments, Inc. Differential pressure transducer. 3,680,387, 8-1-72, Cl. 73-398.00r.
 Akeley, Lloyd T., to Beckman Instruments, Inc. Reverse-acting relay valve. 3,683,968, 8-15-72, Cl. 137-625.660.
 Akeley, Lloyd T., to Beckman Instruments, Inc. Differential pressure transducer. 3,691,842, 9-19-72, Cl. 73-398.00c.
 Akeley, Lloyd T., to Simmonds Precision Products, Inc. Magnetic float point sensor for high pressure containers. 3,702,910, 11-14-72, Cl. 200-84.00r.
 Akell, Robert B., to Du Pont de Nemours, E. I., and Company. Emulsion breaking. 3,644,214, 2-22-72, Cl. 252-320.
 Akell, Robert B.; and Kemp, Harold S., to Du Pont de Nemours, E. I., and Company. Process for separating mixtures of N,N-dimethylacetamide and acetic acid by distilling with alternate pressures. 3,687,820, 8-29-72, Cl. 203-78.000.
 Aker, James E., to Standard Oil Company. Accumulator useful in molding articles of manufacture from plastic. 3,707,248, 12-26-72, Cl. 222-255.000.
 Aker, Jimmie R.: See—
 Cullen, Roy H.; Aker, Jimmie R.; and Burke, William E., 3,669,199.
 Aker, John L.: See—
 Alden, John R.; and Aker, John L., 3,702,475.
 Aker, Ludwig E.: See—
 Skanes, Frederick A.; Aker, Ludwig E.; and Kraemer, Ronald G., 3,662,847.
 Aker, Walter W.: See—
 Naydan, Theodore T.; and Aker, Walter W., 3,700,169.
 Akerberg, Dag E. Son: See—
 Mossberg, Kare Hjovard; and Akerberg, Dag E. Son, 3,636,466.
 Akers, Edward G., to Borg-Warner Corporation. Self-sealing tank connector. 3,650,551, 3-21-72, Cl. 285-158.
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 Akerstrom, Gary L.: See—
 Klett, George G.; and Akerstrom, Gary L., 3,703,058.
 Akerstrom, Stig Hjalmar Johannes; Tempel, Albert; and Gullfeldt, Bengt Hjalmar. Fungicidal and bactericidal composition and method containing 3-thiocyanoindeole derivatives. 3,646,210, 2-29-72, Cl. 424-274.
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 Akeyama, Katsumi: See—
 Kurihara, Sumio; Araki, Kazumi; Akeyama, Katsumi; and Takasawa, Yoshimasa, 3,687,810.
 Akeyama, Kenji; and Miyamoto, Norimasa, to Hitachi, Ltd. Multiple alloy ohmic contact for a semiconductor device. 3,686,698, 8-29-72, Cl. 317-234.00r.
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 AKG Akustische u. Kino-Geräte Gesellschaft m.b.H.: See—
 Fidi, Werner; and Srb, Franz, 3,649,933.
 Fidi, Werner; and Weingartner, Bernhard A., 3,662,292.
 Fidi, Werner, 3,697,059.
 Gorike, Rudolf, 3,642,558.
 Gorike, Rudolf; and Lemoch, Karl, 3,651,286.
 Gorike, Rudolf, 3,682,268.
 Reinthaler, Karl, 3,654,406.
 Weingartner, Bernhard, 3,652,810.
 Akgulian, Sahag C.; and Haffner, Donald G., to Jacobsen Manufacturing Company. Roller for reel type lawn mowers. 3,662,528, 5-16-72, Cl. 56-249.000.

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Akiba, Hitoshi: See—
Yoshida, Ryonosuke; Takehara, Masahiro; Akiba, Hitoshi; and Usuba, Yasunori, 3,663,459.

Akiba, Keiichi: See—
Fujinami, Akira; Ozaki, Toshiaki; Horiuchi, Fukashi; Yamamoto, Sigeo; Akiba, Keiichi; Tanaka, Katsutoshi; Ooba, Shigehiro; Oishi, Tadashi; Nodera, Katsuji; and Kameda, Nobuyuki, 3,668,217.

Akiba, Kosuke: See—
Doi, Toshitada; and Akiba, Kosuke, 3,680,134.

Akhihiko, Iochi: See—
Arikawa, Masayasu; Godai, Tomokazu; Arai, Toshio; Hironosuke, Kada; and Akihiko, Iochi, 3,679,866.

Akimoto, Hideo: See—
Uchida, Yasuo; and Akimoto, Hideo, 3,651,372.

Akimoto, Toshio: See—
Chikatsu, Tatsusuke; Shimokawa, Shinichi; Yoshida, Yoshinori; Imamura, Masatugu; Nishiwaki, Ituo; Akimoto, Toshio; and Fujiwara, Tatsuji, 3,692,861.

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Akio, Huruya: See—
Ishiwata, Mamoru; and Akio, Huruya, 3,640,752.

Akioka, Toshio: See—
Hatanaka, Yoshihiro; Abe, Masahiro; Oshima, Takeo; and Akioka, Toshio, 3,652,081.

Akira, Fukami: See—
Shunichiro, Nishizaki; and Akira, Fukami, 3,674,741.

Akira, Konno, to Pioneer Electronic Corporation. Automatic telephone answering apparatus. 3,688,044, 8-29-72, Cl. 179-6.00r.

Akira, Okayama: See—
Takeya, Kenji; Uno, Yoshihiro; and Akira, Okayama, 3,657,201.

Akira, Sato: See—
Shiba, Keisuke; Akira, Sato; and Tsubota, Motohiko, 3,667,960.

Shiba, Keisuke; Sueyoshi, Tohru; Akira, Sato; Kubodera, Seiiti; and Tsubota, Motohiko, 3,706,566.

Akita, Eiichi: See—
Shomura, Takashi; Ezaki, Norio; Tsuruoka, Takashi; Niwa, Tomizo; Akita, Eiichi; and Niida, Taro, 3,661,892.

Shomura, Takashi; Ezaki, Norio; Tsuruoka, Takashi; Niwa, Tomizo; Akita, Eiichi; and Niida, Taro, 3,697,648.

Akita, Minoru: See—
Inamura, Seiichi; Kondo, Yusuke; Akita, Minoru; and Chikanari, Kenichi, 3,640,509.

Akiya, Fumio: See—
Koyanagi, Shunichi; Ogawa, Kinya; and Akiya, Fumio, 3,639,270.

Akiyama, Hideaki: See—
Kakichi, Tokusaburo; and Akiyama, Hideaki, 3,642,225.

Kakiuchi, Tokusaburo; and Akiyama, Hideaki, 3,642,358.

Kakiuchi, Tokusaburo; and Akiyama, Hideaki, 3,650,378.

Kakiuchi, Tokusaburo; Ando, Akira; Akiyama, Hideaki; and Jin-senji, Sei, 3,685,767.

Katagiri, Nobuyuki; and Akiyama, Hideaki, 3,679,453.

Akiyama, Hideaki, to Ricoh Co., Ltd. Automatic flash bulb triggering device for use in ever-set type electronic shutter. 3,699,859, 10-24-72, Cl. 95-11.50r.

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Miyamoto, Akira; and Akiyama, Hiroyuki, 3,687,592.

Akiyama, Joseph S., to Lee, Raymond, Organization, Inc., The. Educational device. 3,672,072, 6-27-72, Cl. 35-31.0b.

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Honda, Kiyoshi; Miyazaki, Mitsumasa; Nomura, Shozaburo; Akiyama, Kazuo; and Hirose, Kazutoyo, 3,694,415.

Akiyama, Masakazu: See—
Yamaka, Biso; Karube, Norio; and Akiyama, Masakazu, 3,660,776.

Akiyama, Naoki: See—
Takayanagi, Kenjiro; Matsuyama, Kihachiro; Fujiwara, Tadashi; Mizuno, Hideaki; and Akiyama, Naoki, 3,692,576.

Akiyama, Shinichi: See—
Sakuragi, Taketami; and Akiyama, Shinichi, 3,681,414.

Akiyama, Shinichi; Minami, Shoichiro; and Toyoda, Akinobu, to Japanese Geon Company, Ltd., The. Process for the preparation of unsaturated carboxylic acid. 3,646,127, 2-29-72, Cl. 260-530.

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Fukuda, Hideo; Suzuki, Takashi; Sumino, Yasuhiro; and Akiyama, Shunichi, 3,671,395.

Fukuda, Hideo; Suzuki, Takashi; Akiyama, Shunichi; and Sumino, Yasuhiro, 3,689,359.

Akiyama, Susumu; and Naganuma, Mitsuaki, to Nippon Electric Company, Limited. Demodulation system regenerating carrier waves phase synchronized with corresponding carrier wave components in horizontal synchronizing pulse modulated carrier waves. 3,674,929, 7-4-72, Cl. 178-7.30r.

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Akoh, Shigeichi: See—
Tachibana, Sachihiko; Nakai, Susumu; Makino, Yoichi; Matsura, Hisashi; Tabuchi, Kimitaka; Hiraoka, Michio; Akoh, Shigeichi; and Orito, Hiroshi, 3,644,078.

Akre, Marvin L. Closure support for foundation vents and like openings. 3,645,044, 2-29-72, Cl. 49-465.

Akron Spool and Manufacturing Co.: See—
Hawley, John B., 3,674,069.

Akron Standard; division of Eagle-Picher Industries, Inc.: See—
Dieterich, Donald B.; and Schrum, George L., 3,647,126.

Akron Standard; division of Eagle-Picher Industries, Inc.: See—
Gross, Werner L., 3,682,576.

McCafferty, Robert F.; and Riggle, Gerald D., 3,690,989.

Akron Standard; division of Eagle-Picher Industries, Inc.: See—
Homa, George D.; Kindy, Ronald J.; and Miller, Earl D., 3,684,877.

Akrongold, Harold S.; and Akrongold, Rochelle. Washing polymers. 3,654,167, 4-4-72, Cl. 252-119.

Akrongold, Harold S.; Akrongold, Rochelle; and Goldsmith, Michael. Hair dye protective agent. 3,683,004, 8-8-72, Cl. 260-465.900.

Akrongold, Rochelle: See—
Akrongold, Harold S.; and Akrongold, Rochelle, 3,654,167.

Akrongold, Harold S.; Akrongold, Rochelle; and Goldsmith, Michael, 3,683,004.

Akroyd, P. R., Limited: See—
Akroyd, Peter Robert, 3,645,217.

Akroyd, Peter Robert, to Akroyd, P. R., Limited. Incinerators. 3,645,217, 2-29-72, Cl. 110-8.

Akroyd, Philip: See—
Van Dorp, David Adriaan; Akroyd, Philip; and Mindt, Lothar, 3,686,003.

Aksamit, Stephen M., to Standard Alliance Industries, Inc. Trolley retarder for power and free conveyors. 3,705,554, 12-12-72, Cl. 104-250.000.

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Aktiebolaget Arboga Mekaniska Verkstad: See—
Rabe, Karl Lars Gunnar; and Hanaeus, Karl Sune Ingemar, 3,648,495.

Aktiebolaget Armerad Betong: See—
Andersson, Artur Lennart, 3,663,132.

Aktiebolaget Asea-Atom: See—
Stilling, Jens Ole, 3,640,117.

Aktiebolaget Astra: See—
Bamberg, Peter; Ekstrom, Bertil Ake; Sjoberg, Berndt Olof Harald; and Nathorst-Westfelt, Lars Solve, 3,642,810.

Carlsson, Lars Anders Fritz; Helgstrand, Ake John Erik; Sjoberg, Berndt Olof Harald; and Stjernstrom, Nil Erik, 3,637,714.

Carlsson, Per Arvid Emil; Corrodi, Hans Rudolf; Florwall, Gosta Linnart; and Ross, Svante Bertil, 3,644,623.

Dahlbom, Johan Richard; and Nilsson, John Lars Gunnar, 3,632,766.

Eriksson, Axel Fredrik Valdemar; Svard, Per Olov; and Jurgens, Jorg, 3,646,195.

Hansen, Knut Bonde; and Petersson, John Soren, 3,659,940.

Lindberg, Ulf Henrik Anders, 3,692,784.

Sandberg, Rune Verner, 3,636,221.

Aktiebolaget Atomenergi: See—
Danielsson, Gunnar; and Winquist, Knut Ludvig, 3,680,503.

Holmer, Bernt Arne Gustaf, 3,674,006.

Margen, Peter Heinrich Erwin, 3,681,920.

Schmeling, Per Erik, 3,680,284.

Aktiebolaget Bahco Ventilation: See—

Gustavsson, Karl Axel Goran; and Tornqvist, Knut Melker Evald, 3,653,511.

Aktiebolaget Bofors: See—
Andersson, Ake Paul; and Wegmar, Per Augustin, 3,671,050.

Bakke, Jan Magnus; and Hakansson, Christer Lennart Lennart, 3,637,857.

Bakke, Jan Magnus; Heikman, Harald Erik; Hakanson, Christer Lennart; and Nilsson, John Martin, 3,694,505.

Bakke, Jan Magnus; and Heikman, Harald Erik, 3,699,120.

Bergqvist, Erik Arne, 3,689,850.

Borjeson, Jan Lennart, 3,691,284.

Borjeson, Jan Lennart, 3,697,848.

Davidson, Ragnar Per-Olof, 3,678,854.

Erhard, Rune Torsten Isidor, 3,685,159.

Jacobson, Gunnar; and Olsson, Olof Bertil, 3,684,215.

Jacobson, Gunnar, 3,701,550.

Johansson, Arnold Johannes, 3,684,383.

Karlsson, Hans Egon, 3,643,994.

Simmons, Bjorn Herman Olof, 3,702,588.

Svensson, Nils-Ake Birger, 3,650,496.

Wiberger, Ingvar, 3,662,072.

Aktiebolaget Borst & Penselfabriken: See—
Lundvall, Sven Albert, 3,688,338.

Aktiebolaget Carl Lamm: See—
Kvarnegard, Sven Bertil, 3,654,462.

Aktiebolaget Cellecto: See—
Jakobsson, Karl Folke Olof; and Forsner, Bo Ake, 3,696,927.

Aktiebolaget Electrodius: See—
Wijard, Endel; and Odsvall, Jan, 3,687,635.

Aktiebolaget Electrolux: See—
Blomberg, Peter Erik; and Enger, Lars Sivert, 3,681,938.

Crener, Bengt Olof; and Ernolf, Stig Carl-Oskar, 3,633,240.

Crener, Bengt Olof; Anderson, Erik Arne; and Ernolf, Stig Carl-Oskar, 3,639,939.

Eber, Nicolas, 3,683,640.

Fagerstrom, Kurt Gunnar, 3,678,595.

Hagdorn, Manfred Otto, 3,654,953.

Hagdorn, Manfred Otto; and Sandberg, Kjell T-son, 3,668,974.

Holleitner, Hans Johann Gustav, 3,678,699.

Liljendahl, Sven Algot Joel, 3,686,693.

Magnusson, Olov Tage; and Kenneryd, Karl Gosta Lennart, 3,668,889.

Mattsson, Bo Gunnar, 3,659,312.

Ohlin, Bror Eric Gustav, 3,647,079.

Ohlin, Bror Eric Gustav, 3,659,884.

Schwartz, Osten, 3,660,864.

Wallgren, Harald Anton Ake, 3,695,284.

Aktiebolaget Elektrodus: See—
Wijard, Endel; and Odsvall, Jan, 3,661,554.

Aktiebolaget Forenade Superfosfatfabriker: See—
Hamrin, Bjorn Staffan Artur, 3,688,437.

Aktiebolaget Gustavsbergs Fabriker: See—
Hellqvist, Ake Oscar Wilhelm, 3,633,610.

Aktiebolaget Hassle: See—
Brandstrom, Arne Elov; and Carlsson, Stig Ake Ingemar, 3,665,074.

Brandstrom, Arne Elov; Carlsson, Per Arvid Emil; Carlsson, Stig Ake Ingemar; Corrodi, Hans Rudolf; Ek, Lars; Lamm, Bo Robert; and Ablad, Bengt Arne, 3,674,840.

Carlsson, Per Arvid Emil; Corrodi, Hans Rudolf; Hallhagen, Sven Goran; and Junggren, Ulf Krister, 3,655,737.

Aktiebolaget Kalle-Regulatorer: See—
Enarsson, Knut; and Kitsnik, Henrik M., 3,688,563.

Enarsson, Knut, 3,700,246.

Aktiebolaget Kamy: See—
Verreyne, Abraham Jacob; Job, Leonard Austin; Rerolle, Paul; and Richter, Johan C. F. C., 3,660,225.

Aktiebolaget Kamy: See—
Richter, Johan C. F. C., 3,704,603.

Aktiebolaget Kanthal: See—
Bizzarri, Venanzio, 3,640,907.

Schrewelius, Nils Gustav, 3,668,599.

Schrewelius, Nils Gustav, 3,676,093.

Aktiebolaget Karlstads Mekaniska Werkstad: See—
Danielsson, Erik, 3,678,775.

Larsson, John Lars Arvid, 3,687,733.

Ordqvist, Olof Albert, 3,697,207.

Pehrsson, Anders Lennart; and Andersson, Sven-Ola, 3,647,318.

Skeppstedt, Nils Petri, 3,694,311.

Aktiebolaget Leo: See—
Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; Kneip, Paul Hans Otto Josef; and Rohte, Oskar Adolf, 3,637,660.

Aktiebolaget Leo (AB Leo): See—
Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; and Rohte, Oskar Adolf, 3,682,973.

Aktiebolaget Motala Verkstad: See—
Carlsson, Bengt; and Sundberg, Mauritz R. G., 3,692,612.

Carlsson, Bengt J., 3,649,396.

Carlsson, Bengt J.; and Sundberg, Mauritz R. G., 3,650,203.

Carlsson, Bengt J., 3,652,131.

Aktiebolaget Nohab: See—
Munkstrand, Nils Eric, 3,639,072.

Ringholm, Carl-Erik, 3,680,972.

Aktiebolaget Pharmacia: See—
Lindberg, Bernt Jabes, 3,681,319.

Aktiebolaget Platmanufaktur: See—
Jakobsen, Kjell Moswoll; and Eriksson, Hanslvar, 3,671,386.

Aktiebolaget Scania-Vabis: See—
Back, Anders Yngve, 3,667,289.

Aktiebolaget Secor: See—
Kalb, Lennart Reinhold; Olsson, Karl Gustav; and Blom, Bengt Gordon Teodor, 3,641,960.

Aktiebolaget Siefert & Fornander: See—
Struve, Hans Peter, 3,664,817.

Aktiebolaget Stadex: See—
Grundschober, Friedrich; Wyckera, Erhard; and Carriere, Jean Paul, 3,680,689.

Aktiebolaget Svenska Flaktfabriken: See—
Larkfeldt, Birger, 3,631,788.

Larkfeldt, Birger, 3,699,871.

Aktiebolaget Svenska Iscopalfabriken, mesne: See—
Bokvist, Kjell; and Ingestrom, Curt Holger, 3,673,750.

Aktiebolaget Svenska Kullagerfabriken: See—
Murray, Hans E. H., 3,659,324.

Nilsson, Sven Walter, 3,643,521.

Ullberg, Carl Woodrow, 3,656,824.

Aktiebolaget Svenska Metallverken: See—
Bergqvist, Ake Torgny, 3,705,647.

Remning, Ake Gustav Vilhelm, 3,636,616.

Aktiebolaget Svenska Precisionsverktyg: See—
Eriksson, Alf A. A., 3,656,858.

Aktiebolaget Thugus Mekaniska Verkstad: See—
Lindquist, Per G. E., 3,633,901.

Aktiebolaget Tudor: See—
Andersson, John Lennart; and Nilsson, Ove Karl-Gustav, 3,647,548.

Nilsson, Ove K-G, 3,684,950.

Sundberg, Erik G., 3,650,833.

Sundberg, Erik Gustav, 3,694,265.

Aktiebolaget Vallenbyggnadsbyran: See—
Westberg, Nils K. G., 3,652,406.

Aktiebolaget Vibro-Verken: See—
Fransson, Johnny, 3,703,128.

Aktiebolaget Volvo: See—
Hartelius, Nils Magnus, 3,669,469.

Aktiebolaget Electrolux: See—
Orr, Bengt Erik, 3,685,797.

Aktiebolaget Bahco Ventilation: See—
Gustavsson, Karl-Axel Goran, 3,640,053.

Aktiengesellschaft Berlin and Munich: See—
Honold, Peter, 3,683,374.

Aktiengesellschaft Brown, Boveri & Cie: See—
Bansal, Parma Nand; and Sonnenmoser, Alois, 3,656,281.

Baumann, Gustav; and Hentschel, Gerhard, 3,658,179.

Clerc, Denis; and Zahn, Dieter, 3,662,233.

Faber, Guy, 3,642,517.

Faber, Guy; and Maggi, Carlo, 3,689,178.

Faust, Werner, 3,651,374.

Floessel, Carl-Dieter, 3,686,453.

Floessel, Dieter, 3,678,234.

Friedrich, Edmund; and Strubin, Harald, 3,649,790.

Gillhaus, Horst; and Simons, Emil, 3,688,951.

Greuter, Robert, 3,670,204.

Herger, Hans, 3,632,118.

Hofer, Franz; and Schuler, Claus, 3,684,499.

Jaacklin, Andre, 3,675,125.

Jaacklin, Andre, 3,693,082.

Jaacklin, Andre; and Lietz, Manfred, 3,707,321.

Jaacklin, Andre; Mastner, Jiri; and Von Willisen, Friedrich K., 3,707,329.

Kalverboer, Cornelis, 3,683,620.

Kanngiesser, Karl-Werner; and Kluge, Dietrich, 3,694,728.

Kanngiesser, Karl-Werner; and Lips, Hans Peter, 3,707,669.

Kaser, Alfred, 3,673,653.

Kramer, Wilhelm, 3,632,915.

Kramer, Wilhelm, 3,671,698.

Kruckewitt, Wilfried, 3,649,791.

Kuhnen, Gottfried, 3,699,641.

Latal, Werner, 3,657,594.

Lau, Waldemar; and Schaffernak, Anton, 3,689,800.

Lautenschlager, Helmut, 3,648,494.

Mauhe, Gerhard, 3,676,624.

Merhof, Wilfried; and Noser, Renato, 3,667,014.

Mottier, Francois, 3,661,437.

Mottier, Francois, 3,666,344.

Mottier, Francois, 3,668,530.

Mottier, Francois, 3,702,737.

Muller, Elmar; and Weimann, Klaus, 3,638,080.

Nordmann, Harald; and Schmidt, Kurt, 3,665,576.

Peter, Peter, 3,681,634.

- Rudolph, Rene; and Tan, Tjning Thian, 3,686,532.
Rutz, Hansrudolf; and Schmollinger, Tassilo, 3,673,445.
Scharli, Otto, 3,653,433.
Schmitz, Wolfgang, 3,637,965.
Schmitz, Wolfgang; and Korner, Gerhard, 3,681,549.
Spiess, Gustav, 3,665,272.
Starcevic, Mihailo, 3,652,880.
Stemmler, Herbert, 3,639,820.
Sturm, Carl-Heinz; and Weber, Willi, 3,688,838.
Vig, Istvan, 3,641,871.
von Willisen, Friedrich K., 3,666,956.
Wideroe, Rolf, 3,689,796.
Wiedemann, Eugen, 3,633,054.
Wild, Peter J., 3,683,285.
Aktiengesellschaft für Biologische Verfahrenstechnik: See—
Baerfuss, Achilles, 3,686,073.
Aktiengesellschaft für Brauerei-Industrie: See—
Raible, Karl J., 3,676,367.
Aktiengesellschaft für Vogt-Patentverwertungen: See—
Vogt, Wilhelm, 3,701,553.
Aktiengesellschaft Loeffe: See—
Loeffe, Erich, 3,676,769.
Aktiengesellschaft 'Weser': See—
Janssen, Hans-Georg, 3,667,418.
Renz, Eberhard; Voss, Siegfried; and Ecke, Gunter, 3,668,725.
Voss, Siegfried, 3,648,311.
Aktiengesellschaft Brown, Boveri & Cie: See—
Pisecker, Johann, 3,683,251.
Aktieselskabet Burmeister & Wain's Maskin- OG Skibbyggeri: See—
Bendixen, Knud Erik, 3,672,812.
Aktieselskabet Dansk Svovlsyre- og Superphosphat-Fabrik: See—
Knudsen, Knud C. B., 3,652,254.
Aktieselskabet Grindstedvaerk: See—
Nielsen, Vagn; Lauridsen, Jens Birk; and Jensen, Kristian Stistrup, 3,691,150.
Aktieselskabet Grindstedvaerk: See—
Moller, Torben Torsbjerg; Nedenskov, Poul; and Rasmussen, Henning B., 3,635,949.
Aktieselskabet Laur. Knudsen, Nordisk Elektricitets Selskab Selskab: See—
Vilshammer, Theodor, 3,689,757.
Aktieselskabet Laur. Knudsen, Nordisk Elektricitets Selskab: See—
Nielsen, Per Ostergaard, 3,662,310.
Aktieselskabet Laur. Knudsen, Nordisk Elektricitets Selskab Selskab: See—
Lerstrup, Karl, 3,689,995.
Aktieselskabet Niro Atomizer: See—
Gude, Klaus Erik; and Lund, Bjorn, 3,669,432.
Moller, Aage; and Straarup, Orla, 3,640,467.
Aktieselskabet Rosco: See—
De Musquiz Reumert, Jorgen; Gylling-Pedersen, Ole; and Casals, Jose Bou, 3,666,749.
Aku N.V.: See—
Heijnis, James W. I.; and Geusgens, Joseph T. V. M., 3,698,355.
Akuba, Uche. Suturing instrument. 3,638,654, 2-1-72, Cl. 128-340.
Akulova, Galina Iosifovna: See—
Shindelmann, Jury Iosifovich; and Akulova, Galina Iosifovna, 3,683,227.
Akuta, Tomohiko; Seya, Atsumi; and Hashirizaki, Shinya, to Yawata Iron & Steel Co., Ltd. and Mitsubishi Seiko Kabushiki Kaisha. Method for measuring a weighing load rapidly. 3,670,833, 6-20-72, Cl. 177-1,000.
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Akutagawa, Susumu: See—
Moroe, Tatsuo; Komatsu, Akira; Akutagawa, Susumu; Sakaguchi, Toshiaki; and Matsuyama, Hirokazu, 3,706,809.
Akutsu, Eiichi: See—
Shiro, Teruo; Takinami, Koichi; Akutsu, Eiichi; Yoshii, Hiroe; and Yamada, Yasutsugu, 3,704,205.
Akuwa, Fumio: See—
Wada, Yoshiyo; Kinjo, Hisao; Suzuki, Toshi; and Akuwa, Fumio, 3,673,352.
Wada, Yoshiyo; Kinjo, Hisao; Takashima, Seiichi; and Akuwa, Fumio, 3,681,525.
Akwel Industries Incorporated: See—
Stepp, Wendell H., 3,684,643.
Akzo N.V.: See—
Brants, Johannes Petrus; and Van der Meulen, Johan, 3,674,522.
Bussink, Jan, 3,665,051.
Akzona Incorporated: See—
Arnold, Walter; and Wepner, Gunter, 3,648,554.
Castro, Anthony J., 3,699,078.
Fontijn, Wilhelmus J.; and Van Drunen, Korstiaan J. M., 3,707,341.
Heijnis, James W. I., 3,680,181.
Helmuth, Werner; Frank, Dieter; and Drachenberg, Werner, 3,676,245.
Hess, Rudolf; and Engel, Heinz, 3,680,302.
Leibbrand, Bertus; Mertens, Johan J.; Ploeger, Harm A.; Sluijters, Robert; and Van Assendelft, Leendert, 3,706,192.
Mamok, Herbert; Hejl, Rainer; and Korner, Joachim, 3,689,354.
Meyer, Ernst; Grimm, Wolfgang Erlenbach; Gerlach, Klaus; and Linhart, Helmut, 3,704,863.
Mohr, Bernhard; Engel, Heinz; and Heijnis, James Watt Ijstrand, 3,698,614.
Molenaar, Eenje, 3,692,745.
Munting, Johannes Pieter, 3,650,879.
Ostertag, Karl; and Nilgens, Heinrich, 3,679,114.
Rohner, Dieter; and Duhning, Wolfgang, 3,679,808.
Schwallier, Lando J.; and Razal, Albert J., 3,662,573.
Schwallier, Lando J.; Razal Albert J.; and White, John G., 3,675,450.
Sempel, Hendrinus; and Potman, Hendrik, 3,655,839.
Sempel, Hendrinus, 3,660,550.
Stapp, Hans, 3,650,659.
Werner, Helmut; and Stapp, Hans, 3,687,759.
Werner, Helmut; and Stapp, Hans, 3,691,004.
Al-Shaikh, Abdul-Rahman A., to Westvaco Corporation. Method and apparatus for controlling rush-drag in a paper machine. 3,661,701, 5-9-72, Cl. 162-198.
Aladdin Industries, Incorporated: See—
Bridges, John A., 3,684,123.
Aladdin Industries Limited: See—
Hebard, Hugh Charles, 3,672,809.
Aladjem, Abraham, to Israel Atomic Energy Commission, The State of. Metal oxide film structure. 3,675,021, 7-4-72, Cl. 250-106,00s.
Alago, Edward. Mattress panel cutter. 3,659,766, 5-2-72, Cl. 225-94,000.
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Alaimo, Robert J.; and Pelosi, Stanford S., Jr., to Morton-Norwich Products, Inc. Antifungal thiocyanatobenzothiazoles. 3,696,114, 10-3-72, Cl. 260-305,000.
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Alam, Anthony A. Vocabulary building game cards and holder. 3,678,602, 7-25-72, Cl. 35-35,00j.
Alamance Industries, Inc.: See—
Fain, Bobby Ray, 3,667,209.
Smith, John R., 3,694,816.
Alameda County, Sheriff of: See—
Lindberg, John E., Jr., 3,682,100.
Alarm Lock Company, Inc.: See—
Kossen, Dale J.; Foster, Richard W.; and Benson, Charles R., 3,641,396.
Alarm Products International, Inc.: See—
Parlato, Philip J., 3,671,690.
Parlato, Philip Joseph, 3,676,811.
Alarmtronic Engineering, Inc.: See—
Reiss, Martin H.; and Cotter, William L., 3,641,547.
Alas, Raigo: See—
Leavitt, John N.; Alas, Raigo; and Dafoe, Edwin C., 3,638,502.
Alazraki, Marcos: See—
Gapp, Roland Howard; Alazraki, Marcos; and Harper, John, 3,685,391.
Albanese, Damian F., to International Telephone and Telegraph Corporation. Pseudonoise radar system. 3,641,573, 2-8-72, Cl. 343-12.
Albanese, Pietro; Benzoni, Luigi; Corain, Benedetto; and Turco, Aldo, to Montecatini Edison S.p.A. Process for preparing predominantly linear pentene nitriles. 3,686,264, 8-22-72, Cl. 260-465,300.
Albanese, Victor J.; Johnson, Arthur E.; and Dietz, Charles L., to Grumman Aerospace Corporation. Portable passive reflector. 3,703,723, 11-21-72, Cl. 343-18,00d.
Albany Enterprises, Inc.: See—
Adams, Robert P., 3,648,025.
Albany Machine & Supply, Inc., mesne: See—
Fritz, Rene; and Fritz, Rene Eugene, 3,687,269.
Albatros Super Fosfaatfabrieken N.V.: See—
van Es, Adriaan Cornelis; and Waller, Arnoud, 3,632,307.
Albatys, Zigmund M., to United States of America, Navy. Mortar safety device for preventing double loading. 3,698,282, 10-17-72, Cl. 89-1,00f.
Albeancese, Joseph D., III. Insulated air-tight container for instruments. 3,666,340, 5-30-72, Cl. 312-283.

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Albee, Thomas K., to Bunker-Ramo Corporation, The. Double mitered compensated waveguide bend. 3,686,596, 8-22-72, Cl. 333-98,0be.
Alberani, Julius, to Teledyne Industries, Inc. Shaft mounted fuel control. 3,695,037, 10-3-72, Cl. 60-39,280.
Albers, Edwin W.: See—
Maher, Philip Kenerick; Albers, Edwin W.; and McDaniel, Carl Vance, 3,671,191.
Scherzer, Julius; and Albers, Edwin W., 3,676,368.
Albers, Kenneth H.; Blood, Alden E.; and Snapp, Thomas C., Jr., to Eastman Kodak Company. Water soluble alkyl resins. 3,652,501, 3-28-72, Cl. 260-75.
Albers, Kenneth H.; and Snapp, Thomas C., Jr., to Eastman Kodak Company. N,N-bis[2-hydroxyalkyl]2-hydroxyethoxyacetamide and process for making the same. 3,699,165, 10-17-72, Cl. 260-561,00b.
Albers, Rolf G., to Brasch Manufacturing Company, Inc. Backless electrical control panel box. 3,681,663, 8-1-72, Cl. 317-100,000.
Albers, Walter A., Jr., to General Motors Corporation. Process for making tetragonal germanium dioxide. 3,671,309, 6-20-72, Cl. 117-201,000.
Albers, Wouter; and Verberkt, Jacobus, to U.S. Philips Corporation. Semiconductor heterojunction device. 3,641,406, 2-8-72, Cl. 317-237.
Albert, Donald J., to Eastman Kodak Company. Loading mechanism improvement. 3,651,838, 3-28-72, Cl. 141-284.
Albert, Donald J., to Eastman Kodak Company. Exposure device for controlling charge on a portion of a charged surface bordering an image frame projected on the charged surface. 3,671,121, 6-20-72, Cl. 355-7,000.
Albert, Dorothy S.: See—
Haines, Paul G.; and Albert, Harry Elmer, 3,697,470.
Albert, Fred R. Snowmobile trailer. 3,672,523, 6-27-72, Cl. 214-506,000.
Albert, Gilbert. Finger ring with readily removable piece displayed thereby. 3,635,047, 1-18-72, Cl. 63-29.
Albert, Guy D., to North Electric Company. Multi-point program plug and receptacle connector arrangement having positive alignment prior to positive mating. 3,668,605, 6-6-72, Cl. 339-18,00b.
Albert, Harry Elmer: See—
Haines, Paul G.; and Albert, Harry Elmer, 3,697,470.
Albert, Harry Elmer; and Haines, Paul Gordon. Process for inhibiting popcorn polymer formation. 3,632,564, 1-4-72, Cl. 260-94,7.
Albert, James R.: See—
Kodama, Jiro K.; Haynes, George R.; and Albert, James R., 3,658,993.
Albert, Joel M.: See—
Weiss, Shirley I., 3,640,027.
Albert, Joseph J., to Martin-Marietta Corporation. Doppler mapping radar. 3,662,384, 5-9-72, Cl. 343-9.
Albert, Milton P.; and Scott, Milton J., to Monsanto Company. Method of manufacturing elemental phosphorus. 3,632,317, 1-4-72, Cl. 23-223.
Albert, Robert E. Cold water soluble foam plastic package. 3,695,989, 10-3-72, Cl. 161-160,000.
Albert, Robert J.; and Hoge, John H., said Hoge, assor. to said Albert, Robert J. Aggregate containing a treatment agent for improving concrete properties. 3,650,784, 3-21-72, Cl. 106-90.
Alberti, John; and Weber, Franz, to Boeing Company, The. Cargo handling system automatic center. 3,693,919, 9-26-72, Cl. 248-119,00r.
Alberti, Nicholas F.: See—
Johnson, John A.; Alberti, Nicholas F.; and Schuette, Joseph E., 3,659,333.
Albertini, Emanuele, to Societa Ceramica Italiana Richard-Ginori S.p.A. Method of making firing setters for tiles and other ceramic articles. 3,660,886, 5-9-72, Cl. 29-434.
Alberto-Culver Company: See—
Cella, John A.; and Schmitt, William H., 3,703,578.
Schmitt, William H., 3,639,568.
Schmitt, William H., 3,653,914.
Schmitt, William H.; and Lukey, Robert A., 3,653,922.
Alberts, Gene S.; and Flur, Barry L., to International Business Machines Corporation. Process of fabricating a hybrid magnetic film. 3,647,643, 3-7-72, Cl. 204-15.
Alberts, Herbert. Zipper tooth. 3,634,915, 1-18-72, Cl. 24-205,13.
Alberts Plating Works, Inc.: See—
Schumacher, Walter, 3,663,410.
Albertson, Clarence E.; and Okubo, Howard S. Friction elements and methods of their manufacture. 3,647,722, 3-7-72, Cl. 260-2,5.
Albertson, Nathan E. Wrench holder. 3,702,136, 11-7-72, Cl. 211-60,00t.
Albertson, Noel F.; and Archer, Sydney, to Sterling Drug Inc. 1,2,3,4,5,6-Hexahydro-3-(cycloaliphatic or cycloaliphatic alkyl)-6,11-dimethyl-2,6-methano-3-benzazocines. 3,632,591, 1-4-72, Cl. 260-294,7.
Albertson, Noel F.; Rosi, David; and Merola, Armando J., to Sterling Drug Inc. 1,2,3,4,5,6-Hexahydro-8-substituted-6-alkyl-11-(H or alkyl) 2,6-methano-3-benzazocines. 3,639,410, 2-1-72, Cl. 260-294,54.
Albertson, Noel F.; and Michne, William F., to Sterling Drug Inc. 1-Substituted-2-(phenyl or benzyl)-3- or 3,3-piperidine(mono or dicarboxylic) acids and esters thereof, and octahydrobenzo[g]quinolines and hexahydro-5H-indeno[1,2,α]pyridines produced therefrom. 3,639,411, 2-1-72, Cl. 260-294.
Albertson, Noel F.; and Wetterau, William F., to Sterling Drug Inc. Process for the preparation of 1,2,3,4,5,6-hexahydro-2,6-methano-3-benzazocines. 3,678,056, 7-18-72, Cl. 260-293,520.
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Albertson, Robert V. Safety device for an internal combustion engine. 3,672,344, 6-27-72, Cl. 123-198,0db.
Albertson, Robert V. Combined building humidifier and clothes dryer. 3,673,701, 7-4-72, Cl. 34-90,000.
Albertson, Robert V. Stepwise movable V-belt drive pulley. 3,675,500, 7-11-72, Cl. 74-230,17e.
Albertson, Robert V. Axial flow pump. 3,676,013, 7-11-72, Cl. 415-128,000.
Albertson, Robert V. Transmission belt-drive system. 3,698,256, 10-17-72, Cl. 74-230,17e.
Albertson, Robert V. All terrain vehicle stabilizing wheels. 3,698,499, 10-17-72, Cl. 180-6,200.
Albertson, Victor N.: See—
Albertson, Robert V.; and Albertson, Victor N., 3,653,273.
Albery, Ian B. Locks. 3,702,552, 11-14-72, Cl. 70-346,000.
Albiswerk Zurich AG: See—
Hossmann, Marcell; and Barb, Alfred, 3,698,013.
Kupfer, Hanspeter, 3,673,433.
Albo, Ronald T.; and Pastrone, John, to Information Printing Systems Corporation. Electromagnetic actuating means for print hammer. 3,656,425, 4-18-72, Cl. 101-93.
Albon, Colin: See—
Vessey, Clifford A.; Albon, Colin; and Holker, Kenneth, 3,706,603.
Albrecht, Ernst: See—
Pfister, Franz; Albrecht, Ernst; Durner, Josef; and Maus, Eicke, 3,687,005.
Albrecht, Ernst; and Hager, Walter, to Pfaff, G. M., AG, Firma. Machine for sewing on buttons. 3,680,506, 8-1-72, Cl. 112-112,000.
Albrecht, Gerd: See—
Augustin, Guenter; and Albrecht, Gerd, 3,663,133.
Schippers, Heinz; Geil, Walter Remscheid-Lennep; Albrecht, Gerd; and Jung, Reinhold, 3,642,397.
Schippers, Heinz; Geil, Walter; Albrecht, Gerd; and Jung, Reinhold, 3,677,863.
Albrecht, Hans; and Moffatt, John G., to Syntex Corporation. Branched chain ribofuranosyl nucleosides and intermediates. 3,658,786, 4-25-72, Cl. 260-210.
Albrecht, Harold Denton, Jr.: See—
Goldammer, Freeland Robert; and Albrecht, Harold Denton, Jr., 3,657,674.
Albrecht, Harry Allen; and Plati, John Thomas, to Hoffmann-La Roche Inc. 5-Amino-4-methoxyisoxazoles and 3-amino-4-methoxyisoxazoles. 3,706,761, 12-19-72, Cl. 260-307,00h.
Albrecht, Hermann Friedrich; and Strauss, Karl Peter, to Rollei-Werke Franke & Heidecke. Pulse generating direct-current measuring bridges. 3,699,427, 10-17-72, Cl. 318-674,000.
Albrecht, Joachim; Hansen, Hans; Oppen, Dieter; Rausch, Werner; and Schiefer, Peter, to Hooker Chemical Corporation. Metal treating process. 3,632,447, 1-4-72, Cl. 134-3.
Albrecht, Lance M.: See—
Goldman, Samuel C.; and Albrecht, Lance M., 3,697,956.
Albrecht, Leonard N.: See—
Harris, Joseph P.; and Albrecht, Leonard N., 3,652,012.
Albrecht, Robert E. Device for preventing the clogging of gutters and downspouts. 3,638,369, 2-1-72, Cl. 52-16.
Albrecht, Rudolf: See—
Gutsche, Klaus; Albrecht, Rudolf; Kessler, Hans-Joachim; and Schroder, Eberhard, 3,707,485.
Albrecht, Rudolf; Kessler, Hans-Joachim; and Schroder, Eberhard, to Schering A.G. 2-(5-Nitro-2-furfurylidene)-1-tetralones. 3,660,385, 5-2-72, Cl. 260-240.
Albrecht, Rudolf; Kessler, Hans-Joachim; and Schroder, Eberhard, to Schering AG. Antimicrobial indanones. 3,671,520, 6-20-72, Cl. 260-240,00a.
Albrecht, Wilhelm: See—
Naumann, Willy R.; Albrecht, Wilhelm; and Wieland, Egon, 3,680,405.
Albrecht, William J.: See—
Mustakas, Gus C.; Albrecht, William J.; and Bookwalter, George N., 3,639,129.
Albrecht, William L., to Nalco Chemical Company. Method of preparing silica sols containing large particle size silica. 3,673,104, 6-27-72, Cl. 252-313,00s.

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- Albrecht, William L.; and Fleming, Robert W., to Richardson-Merrell, Inc. Fluoranthene bis-basis ethers and thioethers. 3,707,471, 12-26-72, Cl. 260-293.620.
- Albright & Wilson Limited: See—
Dear, William Noel; Ramsay, James Ian; and Thomson, Alexander, 3,684,436.
Farquhar, James G.; Gibson, Geoffrey M.; and Joice, Brian J., 3,702,784.
Lyde, Derek Martin, 3,674,660.
Miller, Glyn; and Smart, Graham Michael, 3,639,645.
Porter, Kenneth E.; Ellis, Stephen R. M.; Ashton, Neil; and Hands, Clifford H. G., 3,687,818.
Vessey, Clifford A.; Albon, Colin; and Holker, Kenneth, 3,706,603.
- Albright & Wilson Limited, mesne: See—
Harris, Glyn I.; and Edwards, Alfred G., 3,632,555.
- Albright, Alva Z., to Eaton Yale & Towne Canada Limited. Apparatus for felling trees. 3,672,412, 6-27-72, Cl. 143-32.00n.
- Albright, Charles F.: See—
United States of America, National Aeronautics and Space Administration, 3,678,654.
- Albright, Charles Jere. Food-broiling apparatus. 3,654,912, 4-11-72, Cl. 126-41.
- Albright, Charles Jere. Apparatus for pressurized cooking of foods in high-temperature non-aqueous liquids. 3,655,411, 4-11-72, Cl. 99-330.
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- Albright, Charles Jere. Multiple facilities for assembling cooking and dispensing food-products. 3,673,948, 7-4-72, Cl. 99-355.000.
- Albright, Daniel M. Continuous template flow charting apparatus and method. 3,665,612, 5-30-72, Cl. 33-174.00b.
- Albright, Donald R.; Archibald, James B.; and Barton, Sterling C., to General Electric Company. Generator ventilation dome and cooler casing construction. 3,652,881, 3-28-72, Cl. 310-57.
- Albright, Jay Donald: See—
Morlock, Elizabeth Benz; Albright, Jay Donald; and Goldman, Leon, 3,646,060.
Morlock, Elizabeth Benz; Albright, Jay Donald; and Goldman, Leon, 3,673,194.
Shepherd, Robert Gordon; and Albright, Jay Donald, 3,660,419.
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- Albright, John D.; and Myers, Raymond J., to McQuay, Inc. Fin for a reversible heat exchanger. 3,645,330, 2-29-72, Cl. 165-151.
- Albright, John D., to United States of America, Navy, mesne. Stadiametric ranging system. 3,653,769, 4-4-72, Cl. 356-141.
- Albright, Penrose Lucas, to Zero Manufacturing Company. Teat cup assembly. 3,696,790, 10-10-72, Cl. 119-14.470.
- Albright, Robert L., to Rohm & Haas Company. Porous polymers based on trimethylolpropane trimethacrylate and related materials. 3,663,467, 5-16-72, Cl. 260-2.5.
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- Albrile, Walter, to Olivetti, Ing. C., & C., S.p.A. Friction clutch. 3,681,940, 8-8-72, Cl. 64-30.00c.
- Albritton, George Washington, to Ashbrook Corporation. Aeration. 3,640,514, 2-8-72, Cl. 261-91.
- Alburger, James R. Process of penetrant inspection. 3,636,759, 1-25-72, Cl. 73-104.
- Alburger, James R. Inspection penetrant process and compositions employing mixtures of fluorescent indicator dye and non-fluorescent ultraviolet absorber dye. 3,679,598, 7-25-72, Cl. 252-301.20r.
- Alburn, Harvey E.: See—
Dvovich, William; and Alburn, Harvey E., 3,704,297.
Russell, Peter B.; Fletcher, Horace, III; and Alburn, Harvey E., 3,704,312.
- Alburn, Harvey E.; and Greenspan, George, to American Home Products Corporation. Thymol as an anti-influenza agent. 3,632,782, 1-4-72, Cl. 424-346.
- Alburn, Harvey E.; Dvovich, William; and Grant, Norman H., to American Home Products Corporation. 2-Parachlorophenoxy-2-methylpropionic acid-fatty acid glycerides. 3,652,609, 3-28-72, Cl. 260-408.
- Alburn, Harvey E.; and Dvovich, William, to American Home Products Corporation. Aminocyclopentanecarboxylic acid derivatives. 3,655,725, 4-11-72, Cl. 260-468.
- Alburn, Harvey E.; Clark, Donald E.; Grant, Norman H.; and Lapidus, Milton, to American Home Products Corporation. Hydroxamic acid derivatives of 1-aminocyclohexanecarboxylic acid. 3,703,542, 11-21-72, Cl. 260-500.50h.
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- Albus, Peter, to Siemens Aktiengesellschaft. Planar technique for producing semiconductor microcomponents. 3,676,126, 7-11-72, Cl. 96-36.200.
- Alcala, Frank. Vacuum and pressure pick up device for home and commercial vacuum cleaners. 3,694,848, 10-3-72, Cl. 15-346.000.
- Alcan Aluminum Corporation: See—
Englund, James A.; and Popek, Stephen, 3,678,641.
- Alcan Research and Development Limited: See—
Bryson, Neil Burton, 3,672,431.
Bryson, Neil Burton, 3,702,152.
Eccles, Anthony Garth, 3,654,150.
McLeod, Melvin Elliott; Deutschman, John Edward; Percival, Herbert Warren; and Spoel, Han, 3,676,105.
Morby, John Edward, 3,644,989.
Sergier, Felix Antoine, 3,702,631.
Williams, Merlyn M., 3,635,408.
Williams, Merlyn M., 3,660,076.
- Alcar Chemical Company, Inc.: See—
Treiber, Robert L., 3,647,649.
- Alcenius, James E., to Aeroquip Corporation. Vertical brazing system. 3,667,109, 6-6-72, Cl. 29-490.000.
- Alchem Limited: See—
Jolly, Colin S., 3,657,182.
- Alco Machine & Tool, Inc.: See—
Wilkins, John F., 3,657,954.
- Alco Standard Corporation: See—
Bielefeldt, Irvin P., 3,697,725.
Burmeister, Karl-Heinz; Hoenselaer, Wilhelm; and Moes, Lothar, 3,642,265.
De Long, Charles, Jr.; and Newell, Stephen D., 3,647,139.
Moreau, Glenn T.; and Bielefeldt, Irvin P., 3,673,678.
Polin, Jerry, 3,695,911.
- Alcocer, Francisco O. Combination blackboard chalk and eraser. 3,656,201, 4-18-72, Cl. 15-118.
- Alcock, David Gerald: See—
Williams, Alun Trefor Rhys; and Alcock, David Gerald, 3,702,247.
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- Alcock, John Forster, to Ricardo & Co. Engineers (1927) Limited. Lubrication of bearings of reciprocating engines or pumps. 3,656,582, 4-18-72, Cl. 184-6.5.
- Alcock, Richard A., to Fastener Engineers, Inc. Wire drawing apparatus and method. 3,646,798, 3-7-72, Cl. 72-289.
- Alcock, Richard A.; Guthrie, Robert M.; and Johnston, Robert B., to Fastener Engineers, Inc. Wire drawing and feeding apparatus. 3,654,784, 4-11-72, Cl. 72-5.
- Alcor Chemical Company, Inc.: See—
Treiber, Robert L., 3,689,379.
- Alda, Harold: See—
Schmid, Richard O.; and Alda, Harold, 3,638,790.
- Aldag, Walter, to Volkswagenwerk Aktiengesellschaft. Holding clamp for battery housings. 3,651,883, 3-28-72, Cl. 180-68.5.
- Aldana, Roberto: See—
Saavedra, Manuel, 3,645,099.
- Alday, James M.: See—
Walker, Merle H.; and Alday, James M., 3,631,622.
- Alday, James M., to Remington Arms Company, Inc. Firearm receiver mechanism with a roller detent pin for a telescopic breech-bolt. 3,653,140, 4-4-72, Cl. 42-16.
- Alday, James M., to Remington Arms Company, Inc. Accelerating gas system for gas-operated firearms. 3,707,110, 12-26-72, Cl. 89-193.000.
- Alden, John R.; and Aker, John L., to King Radio Corporation. Search-track decision circuit for distance measuring equipment. 3,702,475, 11-7-72, Cl. 343-7.300.
- Alden, Milton, to Alden Research Foundation. Electrical recorder utilizing a chemically-treated web. 3,638,237, 1-25-72, Cl. 346-145.
- Alden, Milton, to Alden Research Foundation. Paper cutter. 3,675,523, 7-11-72, Cl. 83-167.000.
- Alden Research Foundation: See—
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Simpkins, Frederick W., 3,701,997.
- Alden Self-Transit Systems Corporation: See—
Hall, Edwin F., 3,675,584.
Morley, Richard E.; and Greenberg, Michael P., 3,661,092.

- Morley, Richard E.; Weiss, Eugene M.; Moline, Robert R.; and Greenberg, Michael P., 3,681,597.
- Searle, Campbell L., 3,661,093.
- Taylor, Paul A.; and Boissevain, Thomas A., 3,643,601.
- Alder, Fred: See—
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- Alder, Hanspeter, to Du Pont de Nemours, E. I., and Company. Process for preparing copper sulfide voltaic cell cathodes. 3,674,560, 7-4-72, Cl. 136-23.000.
- Alder, Ralph M., to Adler Process Corporation. Apparatus for production of pile carpeting. 3,655,490, 4-11-72, Cl. 156-435.
- Alderfer, Sterling W., to Teledyne, Inc., mesne. Method for making industrial rolls. 3,666,589, 5-30-72, Cl. 156-172.000.
- Alderfer, Sterling W., to Industrial Heights, Inc. Pneumatic tire having helical reinforcing filaments. 3,682,222, 8-8-72, Cl. 152-361.000.
- Alderfer, Sterling W., to Steelastic Company, The. Apparatus for producing helically formed filaments. 3,700,012, 10-24-72, Cl. 140-149.000.
- Alderman, John F.: See—
Cebalo, Tony; and Alderman, John F., 3,669,982.
- Alderman, Leslie: See—
Organ, Terrence John; Alderman, Leslie; Melley, Arthur; and Pratt-Johnson, William Henry, 3,634,106.
- Alderson, William T.: See—
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- Alderson, William T. Fluid energy machine. 3,671,146, 6-20-72, Cl. 417-243.000.
- Alderton, Brian, to Scolar Press Limited, The. Means for photographically copying book pages. 3,635,557, 1-18-72, Cl. 355-65.
- Alderton, Howard Kenneth, to Cam Gears Limited. Braking systems. 3,695,733, 10-3-72, Cl. 303-21.00a.
- Alderuccio, Carmelo Leon, to Alderuccio, Lee, & Associates, Inc. Chemical etching solution for printed wiring boards. 3,677,950, 7-18-72, Cl. 252-79.500.
- Alderuccio, Lee, & Associates, Inc.: See—
Alderuccio, Carmelo Leon, 3,677,950.
- ALDES Ateliers Lyonnais d'Emboutissage Special (Societe Anonyme): See—
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- Aldi, Angelo J. Aircraft rotor blade mechanism. 3,693,910, 9-26-72, Cl. 244-7.00a.
- Aldo, Bruce D.: See—
Koehler, Paul J.; and Aldo, Bruce D., 3,684,623.
- Aldous, George C., to Westinghouse Electric Corporation. Thermal cycling switch. 3,634,802, 1-11-72, Cl. 337-101.
- Aldred, Derek Harry: See—
Edington, Robert Alexander; and Aldred, Derek Harry, 3,660,202.
- Aldred, Edward John, to Ransomes Sims & Jefferies Limited. Flail mower. 3,645,076, 2-29-72, Cl. 56-294.
- Aldrich, Billy R.; Cooper, Charles R.; and Rasquin, John R., to United States of America, National Aeronautics and Space Administration. Underwater space suit pressure control regulator. 3,636,966, 1-25-72, Cl. 137-81.
- Aldrich Chemical Company, Inc.: See—
Bader, Henry; and Biel, John H., 3,646,014.
Biel, John Hans; and Klundt, Irwin L., 3,676,492.
Hopps, Harvey B.; Jackman, Dennis; and Biel, John H., 3,682,921.
Hopps, Harvey B.; Jackman, Dennis; and Biel, John H., 3,701,786.
Klundt, Irwin L.; Lenga, Robert; and Warawa, Edward J., 3,657,452.
Li, Jorge Pengman; and Biel, John Hans, 3,642,857.
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- Aldrich Machine Works: See—
Stevens, William A., 3,680,192.
- Aldrich, Paul E., to Du Pont de Nemours, E. I., and Company. 5-Aryloxatricyclo[3.2.2.0^{2,4}]nonane-1-amines. 3,646,070, 2-29-72, Cl. 260-348.
- Aldrich, Paul E., to Du Pont de Nemours, E. I., and Company. 5-Aryloxatricyclo[3.2.2.0^{2,4}]positions and methods. 3,657,439, 4-18-72, Cl. 424-263.
- Aldrich, Paul H.; Bartell, Don G.; and Espy, Herbert H., to Hercules Incorporated. Aqueous formulation of water soluble cationic or anionic vinyl addition polymers with water soluble condensation polyamides. 3,686,109, 8-22-72, Cl. 260-29.6nr.
- Aldrich, Ralph Edward: See—
Buchan, William R.; and Aldrich, Ralph Edward, 3,699,347.
- Aldrich, William E., to Warmac Inc. Method of simultaneously boarding and setting knitted hosiery. 3,705,066, 12-5-72, Cl. 156-148.000.
- Aldridge, Anthony Peter, to Simon-Carves Limited. Treatment of biological sludge. 3,650,403, 3-21-72, Cl. 210-180.
- Aldridge, Clyde L.; and Buben, David, to Esso Research and Engineering Company. Production of methane rich gases. 3,689,240, 9-5-72, Cl. 48-202.000.
- Aldridge, David Cecil; Broadbent, Douglas; Hemming, Harold George; Turner, William Brian; and Bent, Keith Joseph, to Imperial Chemical Industries Limited. Antifungal benzopyran-5-one derivative. 3,661,935, 5-9-72, Cl. 260-343.2.
- Aldridge, Gerald Richard; Ehrich, Felix Frederick; and Struve, William Scott, to Du Pont de Nemours, E. I., and Company. Preparation of dihydroterephthalates. 3,674,814, 7-4-72, Cl. 260-396.00n.
- Aldridge, Gerald T. Apparatus for proportioning and mixing particulate materials. 3,679,101, 7-25-72, Cl. 222-136.000.
- Aldropp, Archie: See—
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- Alebrant, John: See—
Klingspor, Richard; and Alebrant, John, 3,669,015.
- Alecci, Donald E.: See—
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- Aleck, Benjamin J., to Arde, Inc. Filament wound spherical pressure vessel. 3,655,085, 4-11-72, Cl. 220-3.
- Aleckna, Robert G.: See—
Palumbo, Donald R.; Platt, John V.; Noeggerath, Leon; Johnston, Laurence, Jr.; and Aleckna, Robert G., 3,657,794.
- Aleckner, John F., Jr., to Union Carbide Corporation. Adhesion of coatings to ethylene-polar monomer copolymer. 3,637,428, 1-25-72, Cl. 117-138.8.
- Aleckner, John F., Jr., to Union Carbide Corporation. Coated ethylene-polar monomer copolymer substrate. 3,697,311, 10-10-72, Cl. 117-72.000.
- Alekna, Alvin J., to General Electric Company. Lead compound catalyzed siloxane resin system. 3,666,830, 5-30-72, Cl. 260-825.000.
- Aleks, Vytant: See—
Provi, Mike A.; and Aleks, Vytant, 3,692,204.
- Aleks, Vytant, to Brearley Company, The. Adjustable shelf and cabinet structure. 3,640,498, 2-8-72, Cl. 248-230.
- Alen, Michael George; and Beebe, George W., to Minnesota Mining and Manufacturing Company. Bis(perfluoroalkylsulfonyl)methanes in cationic polymerization. 3,632,843, 1-4-72, Cl. 260-2.
- Alert, Inc.: See—
Vail, Evelyn W.; and Popik, John, 3,660,811.
- Alert, Jerry George; and Mauldin, Robert Daniel, to Formica Corporation. Decorative laminates carrying removable protective coating. 3,637,408, 1-25-72, Cl. 117-6.
- Alessi, Frank A. Device for measuring the amount of fluid in bottles. 3,672,061, 6-27-72, Cl. 33-169.00r.
- Alessi, Patrick A.; and Jansky, Joel W., to Advanced Instruments, Inc. Article treating apparatus. 3,650,038, 3-21-72, Cl. 34-45.
- Alessi, Samuel P.; and Daneck, David A., to Borg-Warner Corporation. Medical traction device. 3,683,900, 8-15-72, Cl. 128-75.000.
- Alessio, Ralph D., to Tele-Conn Enterprises, Inc. Metronome. 3,691,896, 9-19-72, Cl. 84-484.000.
- Alessio, Sergio A.; Chow, Weichien; and Kosem, Marion, to Bunker-Ramo Corporation, The. Combined component and interconnection module and method of making. 3,703,033, 11-21-72, Cl. 29-624.000.
- Aletti, Renato. Continuous mixer. 3,661,363, 5-9-72, Cl. 259-7.
- Alexakis, Nicholas George: See—
Block, Donald Edmund; and Alexakis, Nicholas George, 3,675,210.
- Alexander, Alex G., to Commonwealth of Puerto Rico, The. Method of inhibiting the inversion of sucrose in sugar cane juice. 3,698,950, 10-17-72, Cl. 127-46.00r.
- Alexander, Alexander W. Sensor responsive to liquid level. 3,685,357, 8-22-72, Cl. 73-313.000.
- Alexander, Allen D.: See—
Stucky, Duane L.; Donaldson, Richard G.; and Alexander, Allen D., 3,668,397.
- Alexander, Arthur W.; and Renner, Glen R., to General Motors Corporation. Generator voltage regulator with detachable resistance unit in the voltage reference circuit. 3,659,188, 4-25-72, Cl. 322-28.
- Alexander, Ben H.: See—
Fischbein, Irwin W.; Alexander, Ben H.; and Sastri, Aiyaswami S., 3,682,795.
- Alexander, Carl J., to Wells Manufacturing Corporation. Self-adjusting roller guide. 3,643,536, 2-22-72, Cl. 83-201.15.
- Alexander, Dave W.: See—
Jacobs, Richard M.; Alexander, Dave W.; and Gronroos, Charles M., 3,661,107.
- Alexander, David George: See—
Lloyd, Anthony Michael; and Alexander, David George, 3,696,133.
- Alexander, David Lee: See—
Sweeney, William M.; and Alexander, David Lee, 3,675,671.
- Alexander, Delbert S., Jr., to State National Bank. Automatic electric baseball game. 3,655,189, 4-11-72, Cl. 273-88.
- Alexander, Donald E., to Carrier Corporation. Supporting insulator for electrical heating elements. 3,668,303, 6-6-72, Cl. 174-138.

- Alexander, Donald K., to Koehring-Waterous Ltd., Norton Company of Canada, Great Lakes Paper Company, Limited, The, Montague Machine Company and Norton Company. Wood grinding. 3,690,568, 9-12-72, Cl. 241-15.000.
- Alexander, Ernest John; and Mooradian, Aram, to Sterling Drug Inc. 9-Aroyl-1,2,3,4-tetrahydro-carbozole-3,3-dicarboxylic acids. 3,687,969, 8-29-72, Cl. 260-315.000.
- Alexander, Everett E.: See—
Werner, Richard W.; Alexander, Everett E.; and Comstock, Irving J., 3,665,573.
- Alexander, George F., to Caterpillar Tractor Company. Accumulator recoil cylinder with oil film applicator. 3,692,368, 9-19-72, Cl. 305-10.000.
- Alexander, George F.; Kessinger, Orville E., Jr.; Rediger, John R.; and Reinsma, Harold L., to Caterpillar Tractor Company. Resilient mounting for track rollers. 3,695,737, 10-3-72, Cl. 305-27.000.
- Alexander, Gilbert L.; Neville, Arthur W.; and Mayfield, William A. Automatic drive-in store. 3,647,026, 3-7-72, Cl. 186-1.
- Alexander, Granison T., Jr., to Gem Oil Tool Company. Blow-up preventer. 3,669,187, 6-13-72, Cl. 166-217.000.
- Alexander, Jack F., to Computer Terminal Corporation. Deflection compensation system. 3,706,905, 12-19-72, Cl. 315-21.0ch.
- Alexander, Jack S.: See—
Abnett, Albert C.; and Alexander, Jack S., 3,636,338.
- Alexander, James: See—
Anderson, Andrew W.; Alexander, James; Leszczynski, Martin E.; and Higgins, Lester A., 3,656,273.
- Alexander, James; and Higgins, Lester A., to Scandia Packaging Machinery Company. Apparatus for detecting and preventing irregular conditions in article handling machine. 3,688,467, 9-5-72, Cl. 53-77.000.
- Alexander, James M., to Stillwell-Gerard Construction Co. Post implanting method and vehicular apparatus therefor. 3,696,625, 10-10-72, Cl. 61-53.500.
- Alexander, James M., Jr.: See—
McKnight, John R.; Ballay, Joseph M.; Fabbro, Lawrence L.; and Alexander, James M., Jr., 3,633,326.
- Alexander, John A., to TRW Inc. Method of making composites and products produced thereby shaped composites of refractory embedded in a metal matrix. 3,649,425, 3-14-72, Cl. 161-43.
- Alexander, John William, to Kewanee Oil Company. Removal of hydrocoumaric acid from acid nickel plating baths containing coumarin. 3,707,447, 12-26-72, Cl. 204-49.000.
- Alexander, Kenneth W., Jr. Uni-runner recreation device. 3,695,626, 10-3-72, Cl. 280-12.00k.
- Alexander, L. Bruce: See—
Bushman, Ronald C.; Rickard, Donn J.; Webb, John D.; Alexander, L. Bruce; and Church, Cleveland B., 3,643,716.
- Alexander, Martin J., to Admiral Coated Products, Inc. Method and apparatus for adhering foil to a surface. 3,654,016, 4-4-72, Cl. 156-247.
- Alexander, Milton; Garrett, John W.; and Riepenhoff, Ralph R., to United States of America, Air Force. Pilot armreach and cockpit control locator machine. 3,693,265, 9-26-72, Cl. 35-12.00f.
- Alexander, Newton C.; Stark, Herbert; and Thornton, Richard C., to Northrop Corporation. Attitude readout for floated inertial platform. 3,670,585, 6-20-72, Cl. 74-5.600.
- Alexander, Norman E.: See—
McFarlane, Samuel B., Jr.; Burdige, Joseph; and Alexander, Norman E., 3,645,614.
- Alexander, Paul M.: See—
Vasas, Martin M.; White, John C.; and Alexander, Paul M., 3,662,769.
- Alexander, Raymond L.: See—
Brown, John B.; and Alexander, Raymond L., 3,638,260.
- Alexander, Richard L.: See—
Shattuck, Chauncey H., 3,692,321.
- Alexander, Roy P.; and Schroeder, Hans Juergen A., to Olin Mathieson Chemical Corporation. Chloro-phosphine-m-carborane and a method of making them. 3,637,836, 1-25-72, Cl. 260-543.
- Alexander, Stephen H., to Monsanto Company. Corrugated board constructions. 3,649,432, 3-14-72, Cl. 161-137.
- Alexander, Stuart John: See—
Wakefield, Norman; Alexander, Stuart; Morrish, James Francis; Beck, William; Groves, Raymond Sturgis; and Harvey, Michel J., 3,693,930.
- Alexander, Stuart John: See—
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- Alexander, Taufkirchen: See—
Kuhl, Bernhard; and Alexander, Taufkirchen, 3,662,203.
- Alexander, William. System for measuring fluid flow. 3,681,983, 8-8-72, Cl. 73-186.000.
- Alexander, Willis; and Shaltis, Robert J., said Alexander assor. to Mack Trucks, Inc. and said Shaltis assor. to Hastings Manufacturing Company. Liquid coolant conditioner. 3,645,402, 2-29-72, Cl. 210-266.
- Alexandre, Philippe, to Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM). Automatic constant downstream level gate. 3,643,443, 2-22-72, Cl. 61-22.
- Alexandre, Philippe. Constant downstream level gate. 3,683,630, 8-15-72, Cl. 61-25.000.
- Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Aglitky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Kantor, Ilya Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhanelidze, Vazna Venediktovich; Topolyanky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, to Spetsialnoe Konstruktorskoe Bjuro Transneftavtomatika. Loading and unloading station of plant for the pneumatic transportation of goods in containers along a tbe. 3,689,010, 9-5-72, Cl. 243-38.000.
- Alexandrov, Nikolai Nikitovich: See—
Andoniev, Sergei Mikhailovich; Alexandrov, Nikolai Nikitovich; Klovchnev, Nikolai Ivanovich; Kulikov, Vasily Ivanovich; and Filipiev, Oleg Vladimirovich, 3,690,633.
- Alexandrov, Vladimir Nikolaevich: See—
Ioffe, Vladimir Fedorovich; Roitshtein, Garri Shmilevich; Vyatskin, Iosif Yakovlevich; Tsyppin, Vladimir Grigorievich; Alexandrov, Vladimir Nikolaevich; and Semin, Gennady Gavrilovich, 3,659,070.
- Alexandrovich, Novoselov Viktor: See—
Adaev, Evgeny Ivanovich; Blinov, Alexander Vasilievich; Kamaria, Georgy Mikirtychevich; Alexandrovich, Novoselov Viktor; and Yakimenko, Leonid Markovich, 3,685,121.
- Alexeev, Alexei Ilarionovich: See—
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- Alexeff, Alexander V., to Alexeff-Snyder Enterprises, Inc. Web guiding and spreading apparatus. 3,637,121, 1-25-72, Cl. 226-17.
- Alexeff, Alexander V.; and Snyder, Harvey, to Alexeff-Snyder Enterprises, Inc. Web guiding and expanding apparatus. 3,650,000, 3-21-72, Cl. 26-65.
- Alexeff-Snyder Enterprises, Inc.: See—
Alexeff, Alexander V., 3,637,121.
- Alexeff, Alexander V.; and Snyder, Harvey, 3,650,000.
- Alexiev, Iwan Rangelov: See—
Bressler, Robert Lee; Alexiev, Iwan Rangelov; Troxell, Frank Vollmer; and Richards, George Gilman, 3,657,595.
- Aley, Albert H., to GTE Sylvania Incorporated. Memory drive circuit. 3,662,191, 5-9-72, Cl. 307-270.000.
- Alf, Fritz; and Brill, Wolfgang, to Varta GmbH. Electric primary element and method of manufacturing the same. 3,657,019, 4-18-72, Cl. 136-133.
- Alfa Farmaceutici S.p.A.: See—
Vitale, Eupremio, 3,637,717.
- Alfa Romeo S.p.A.: See—
Colucci, Ivo, 3,681,812.
- Colucci, Ivo, 3,695,695.
- Garcea, Giampaolo, 3,640,259.
- Garcea, Giampaolo, 3,664,316.
- Garcea, Giampaolo, 3,682,046.
- Alfa-Laval AB: See—
Giddey, Claude; and Dove, Georges, 3,653,919.
- Johansson, Karl Borje, 3,666,226.
- Kjellgren, Ove Allan Valentin, 3,656,685.
- Nilsson, Vilgot Raymond, 3,642,196.
- Nilsson, Vilgot Raymond, 3,701,469.
- Stenstrom, Lennart Arvid, 3,668,358.
- Stenstrom, Lennart Arvid, 3,692,616.
- Strom, Sven O. E., 3,699,923.
- Strom, Sven Olof Erik, 3,695,231.
- Thylefors, Henric Wilhelm, 3,640,452.
- Tonelli, Guido Antonio, 3,690,300.
- Alfano, Louis J., to Intraspac, Inc. Methods and articles for preventing clotting of blood. 3,688,318, 9-5-72, Cl. 3-1.000.
- Alfano, Marco, to Silma. Cinematographic apparatus. 3,675,873, 7-11-72, Cl. 242-192.000.
- Alfelt, Lars-Goran: See—
Falk, Sven Uno; and Alfelt, Lars-Goran, 3,640,772.
- Alfieri, Giulio, to Officine Alfieri Maserati. Internal combustion engines with at least two rows of cylinders with overhead camshafts. 3,673,990, 7-4-72, Cl. 123-52.00r.
- Alford, Andrew: See—
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- Alford, Andrew. Isolating antenna elements. 3,681,770, 8-1-72, Cl. 343-815.000.
- Alford, Glen M. Artist's carrying case and easel. 3,669,227, 6-13-72, Cl. 190-11.000.
- Alford Industries Incorporated: See—
Dubey, William B., 3,638,850.
- Alford, Wilbur J.: See—

- Fay, Homer; Alford, Wilbur J.; and Dess, Howard M., 3,639,776.
- Alfredsson, Alf Ingvar, to Hasselblad, Fritz Victor. Control device for viewfinder mirror mechanism of single-lens reflex cameras. 3,645,184, 2-29-72, Cl. 85-42.
- Alfredsson, Alf Ingvar; and Dahlgren, Lennart Gunnar Oskar, to Hasselblad, Fritz Victor. Means for guiding the shutter in a camera equipped with a focal plane shutter and possibly also a central shutter. 3,648,588, 3-14-72, Cl. 95-53.
- Alfredsson, Alf Ingvar, to Hasselblad, Fritz Victor. Viewfinder mirror mechanism for single-lens reflex cameras. 3,698,305, 10-17-72, Cl. 95-42.000.
- Alfredsson, Stig Allan Junior, to Sandvikens Jernverks Aktiebolag. Conveyor belt system. 3,666,080, 5-30-72, Cl. 198-38.
- Alfrey, Turner, Jr.: See—
Schrenk, Walter J.; Chisholm, Douglas S.; Cleereman, Kenneth J.; and Alfrey, Turner, Jr., 3,647,612.
- Alfsen, Alf Adolf. Method of finishing boards of vegetable material. 3,679,790, 7-25-72, Cl. 264-280.000.
- Alfter, Franz-Werner: See—
Wienand, Michael; Jensen, Klaus; Primessing, Franz; and Alfter, Franz-Werner, 3,679,531.
- Algemene Kunstzijde Unie, N.V.: See—
Steenvoorden, Simon J., 3,634,124.
- Algeo, Jerry A.: See—
Roberts, Roger G.; and Algeo, Jerry A., 3,698,008.
- Algeo, John W., to Santa Ynez Research Farm. Process for improving digestibility of feedstuffs for ruminant animals. 3,667,961, 6-6-72, Cl. 99-2.
- Alger, David W. Adjustable lighting apparatus. 3,702,928, 11-14-72, Cl. 240-1.400.
- Alger, George R.: See—
Santeford, Henry S., Jr.; Meier, John G.; and Alger, George R., 3,690,169.
- Alger, Martin J., Jr.; and Dunn, Nelson H., to General Signal Corporation. Method of producing steel cylinder barrels having bonded bronze valve plates. 3,707,034, 12-26-72, Cl. 29-527.600.
- Alger, Martin J., Jr.; and Dunn, Nelson H., to General Signal Corporation. Method of producing steel cylinder barrels having bonded bronze cylinder liners. 3,707,035, 12-26-72, Cl. 29-527.600.
- Alger, Philip Langdon; and Wilson, Charles, to Mechanical Technology Incorporated. Linear reciprocating electric motors. 3,643,117, 2-15-72, Cl. 310-17.
- Algeri, Harvey R.; and Sandorf, Robert E., to Nordson Corporation. Coating apparatus control with delay-duration timer having constant current charging circuit and bistable trigger circuit. 3,682,131, 8-8-72, Cl. 118-2.000.
- Algers, Knut Borge. Method and means for binding of ground surfaces on bedding which is uneven or has a tendency to give way. 3,667,178, 6-6-72, Cl. 52-292.000.
- Algoma Steel Corporation, The: See—
Nanne, Silvio Edward; and Moody, Renville O., 3,700,347.
- Algoship International Limited: See—
Campbell, George Thomas Richardson; and Kasuga, Toshishige, 3,658,187.
- ▼ Campbell, George Thomas Richardson; and Ohta, Kimio, 3,678,875.
- Algotsson, Sven Erik, to AB Elektroverken i Gavle. Device for closure of boxes, preferentially boxes for enclosure of electrical equipment. 3,654,663, 4-11-72, Cl. 16-147.
- Algraphy Limited: See—
Adams, Ronald Alfred Charles, 3,641,905.
- Adams, Ronald Alfred Charles, 3,669,664.
- Ali, Frank F. Cartridge winding machine. 3,652,364, 3-28-72, Cl. 156-357.
- Ali, Frank F. Finishing tool. 3,683,567, 8-15-72, Cl. 51-358.000.
- Ali, Mir Akbar; and Pincus, Alexis G., to IIT Research Institute. UV transmitting borosilicate glass composition and article. 3,671,380, 6-20-72, Cl. 161-175.
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- Alibert, Vernon F., to Columbia Research Laboratories, Inc. Heart-beat transducer for a monitoring device. 3,682,161, 8-8-72, Cl. 128-2.05s.
- Alibrandi, Joseph P.: See—
Rutherford, Kenneth R.; Hooker, Marvin L., Jr.; and Alibrandi, Joseph P., 3,671,866.
- Alicot, Marie-Josephe Jeanne: See—
Sureau, Robert Frederic Michel; Alicot, Marie-Josephe Jeanne; and Dupre, Victor Marie, 3,644,389.
- Aliev, Kantamir Vagabovich: See—
Kargin, Valentin Alexeevich; Kabanov, Viktor Alexandrovich; Aliev, Kantamir Vagabovich; and Salimov, Rafail Mamed Ogly, 3,658,942.
- Alignment Systems, Inc.: See—
Roodvoets, Roger J.; and Stapert, James, Jr., 3,634,941.
- Alimentas Ibericos, S.A.: See—
Morera, Jose Coloma, 3,660,965.
- Alimova, Mariana Sergeevna: See—
Kharitonov, Gennady Grigorievich; Nebytov, Anatoly Mitrofanovich; Doroshin, Sergei Mikhailovich; and Alimova, Mariana Sergeevna, 3,704,865.
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- Alinari, Carlo. Depth gauges. 3,677,087, 7-18-72, Cl. 73-300.000.
- Alinder, Gilbert L., to Clinton Supply Co. Automatic current reversing switch. 3,639,704, 2-1-72, Cl. 200-1.
- Alix, Hans: See—
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- Alkalay, Jorge; and Alkalay, Oton. Apparatus for attaching strip labels to top and neck of a container. 3,663,336, 5-16-72, Cl. 156-485.
- Alkalay, Oton: See—
Alkalay, Jorge; and Alkalay, Oton, 3,663,336.
- Alkan, R., & Cie: See—
Savarieu, Henri, 3,645,482.
- Alkem Alpha-Chemie und-Metallurgie G.m.b.H.: See—
Beisswenger, Heinrich, 3,672,642.
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Medema, Dirk; Alkema, Henk J.; and Van Helden, Robert, 3,649,709.
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Glass, Eduard; and Alker, Heinrich, 3,677,318.
- All American Industries, Inc.: See—
Buckson, Wilson C., 3,693,939.
- Cotton, Robert B., 3,655,303.
- Crimmins, Arthur G.; and Doolittle, Donald B., 3,666,178.
- All American Tool & Mfg. Co.: See—
Reibig, Eric A., 3,640,508.
- All Products Company: See—
Smith, Van Z., 3,670,471.
- All-Fill, Inc.: See—
Ullberg, John Raymond, 3,658,212.
- All-O-Matic Manufacturing Corporation: See—
Karel, George M., 3,685,861.
- All-Power Manufacturing Co.: See—
Brown, Gordon R., 3,685,785.
- All-State Industries, Inc.: See—
Fischer, Harry F., Jr.; and Lang, John N., 3,680,269.
- All-Steel Equipment Inc.: See—
Beaver, Donald V., 3,676,279.
- Harris, Everett K.; Ericson, John P.; and Miller, Richard E., 3,643,323.
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- Allais, Andre; and Girault, Pierre, to Roussel-UCLAF. 3-Amino-4-dihalo pyrazolones. 3,632,818, 1-4-72, Cl. 360-310.
- Allais, Andre; and Meier, Jean, to Roussel-UCLAF. Novel quinolines. 3,644,368, 2-22-72, Cl. 260-287.
- Allais, David C., to Interface Mechanisms, Inc. Tape feed system. 3,670,145, 6-13-72, Cl. 235-61.11e.
- Allam, James N.; and Morrocco, Joseph J., III, to Leesona Corporation. Yarn handling. 3,672,582, 6-27-72, Cl. 242-18.00r.
- Allam, James N., to Leesona Corporation. Chuck. 3,700,249, 10-24-72, Cl. 279-2.000.
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Wetmore, Judson Douglas; and Allan, Donald R., 3,662,094.
- Allan, Donald R., to Raychem Corporation. Pipe line saddle assembly. 3,643,986, 2-22-72, Cl. 285-197.
- Allan, Donald William: See—
Sharp, Alexander; and Allan, Donald William, 3,689,771.
- Allan, Earl E.: See—
Stipanovic, Joseph G.; and Allan, Earl E., 3,638,503.
- Allan Pump and Supply, Inc.: See—
Goodwin, Orval L., 3,698,367.
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Bengtsson, Lars-Erik; and Allander, Claes G., 3,651,524.
- Allard, Charles D.; and Allard, Eugene R., to Sana Products, Inc. X-ray film cassette holder. 3,694,653, 9-26-72, Cl. 250-50.000.
- Allard, Charles E.: See—
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- Allard, Gordon H., to Applied Power Industries, Inc. Dual pump and fluid motor system. 3,635,595, 1-18-72, Cl. 417-426.
- Allard Instrument Corporation: See—
Skrobisch, Alfred, 3,644,763.
Skrobisch, Alfred, 3,668,700.
- Allard, Jean. Mowing device for cutting vegetation adjacent a fence. 3,665,685, 5-30-72, Cl. 56-10.400.
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Allard, Eusebe; Allard, Julien; and Allard, Roland, 3,682,273.
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Parsons, Ronald W., 3,674,293.
Parsons, Ronald W., 3,695,495.
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Acre, Thomas R.; Gimbel, Frederick M.; Ramachandran, Sundaresan; and Beck, Thomas F., 3,645,520.
- Bloom, William M., 3,677,394.
- Dupuis, Hubert, 3,681,830.
- Esler, Donald F.; and Choby, Edward G., Jr., 3,703,419.
- Johnes, Alfred W.; Murtland, James B., Jr.; and Rockwell, Perry Marvin, 3,649,816.
- Kasecky, Joseph J.; and Thompson, Charles W., 3,707,252.
- Lajoie, Peter A., 3,649,893.
- Morgan, Jack B., 3,677,073.
- Murtland, James B., Jr., 3,636,743.
- Ramachandran, Sundaresan, 3,666,439.
- Randich, Erasmus A., 3,688,621.
- Reen, Orville W., 3,689,964.
- Singleton, Cecil W.; and Jones, Richard P., 3,680,343.
- Staley, William E.; and Ames, Stuart L., 3,681,152.
- Stroble, Carl P., 3,695,944.
- Stroble, Carl P., 3,704,118.
- Tommaney, Joseph W.; and Muscatell, Francis L., 3,656,535.
- Tommaney, Joseph W.; and Preston, Jack, 3,687,187.
- Allegheny Ludlum Steel Corporation: See—
Aggen, George, 3,650,731.
- Beck, Herbert P., 3,643,045.
- Bloom, William M., 3,662,997.
- Boyer, Charles D., 3,658,603.
- Chivinsky, Joseph A., 3,693,242.
- Fulton, James C.; and Ramachandran, Sundaresan, 3,649,246.
- Kindlimann, Lynn E.; and Ansell, George S., 3,650,729.
- Kindlimann, Lynn E., 3,663,312.
- Kindlimann, Lynn E.; and Greene, Alexander B., 3,672,037.
- Kozak, Larry M.; and Southern, Raymond L., 3,632,034.
- Lipsie, Paul C., 3,654,042.
- Lula, Remus A.; Aggen, George; and Hammond, Charles M., 3,658,514.
- McCabe, Richard W.; and Johnson, Mark J., 3,694,326.
- Miller, Clarence L., Jr., 3,658,587.
- Phillips, William H., Jr., 3,680,354.
- Ramachandran, Sundaresan, 3,700,429.
- Tommaney, Joseph W., 3,672,428.
- Walker, Robert R.; and Pepin, James J., 3,642,564.
- Zaremski, Donald R., 3,637,354.
- Zaremski, Donald R.; Beigay, Jack M.; and Heavner, William D., Jr., 3,685,136.
- Ziemianski, John P., 3,672,036.
- Zukas, Robert C.; and McMath, Robert C., 3,649,258.
- Allegre, Raymond: See—
Allegre, Rene; and Allegre, Raymond, 3,705,815.
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- Alleman, Carl E. Simplified gas or liquid treating and/or dehydration process. 3,690,816, 9-12-72, Cl. 23-3.01a.
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- Alleman, Ronald D. Skip frame visual display device. 3,696,537, 10-10-72, Cl. 40-78.070.
- Allemand, Edward E.: See—
Marinaccio, Paul J.; Kelley, Joseph M.; Carrock, Frederick E.; and Allemand, Edward E., 3,637,555.
- Allemand, Robert; Brey, Christian; and Jacobe, Jean, to Commissariat a l'Energie Atomique. Ionization radiation detector system for determining position of the radiation. 3,703,638, 11-21-72, Cl. 250-83.60r.
- Allemann, Adrian: See—
Winkler, Erhard; Allemann, Adrian; and Oberholzer, Max, 3,623,196.
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Benware, Robert Edgar, 3,642,248.
- Allen & Hanburys Limited: See—
Hartley, David; Lunt, Lawrence Henry Charles; and Jack, David, 3,701,808.
- Allen & Hanburys Limited: See—
Bays, David Edmund; and Foster, Roy Vivian, 3,647,881.
- Bays, David Edmund, 3,706,768.
- Collin, David Trevor, 3,642,896.
- Harcourt, David N.; and Jack, David, 3,642,993.
- Harcourt, David N.; and Brooks, James R., 3,655,651.
- Hartley, David; Lunts, Lawrence H. C.; and Jack, David, 3,644,520.
- Jack, David; Hartley, David; and Lunts, Lawrence Henry Charles, 3,689,524.
- Lunts, Lawrence H. C.; and Toon, Paul, 3,644,353.
- Lunts, Lawrence Henry; and Toon, Paul, 3,705,233.
- Allen, Alden W.: See—
Mack, Thomas W.; Peretto, David P.; and Allen, Alden W., 3,643,239.
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- Allen, Charles A., to Cogar Corporation. Write once/read only semiconductor memory array. 3,668,655, 6-6-72, Cl. 340-173.0sp.
- Allen, Charles A.; Andersen, Stanley R.; Kinkade, Robert G.; Kwei, Thomas; and Robinson, Richard H., to Cogar Corporation. System for utilizing data storage chips which contain operating and non-operating storage cells. 3,681,757, 8-1-72, Cl. 340-172.500.
- Allen, Charles A.; and Lund, Donald F., to Cogar Corporation. Dynamic MOS memory array chip. 3,685,027, 8-15-72, Cl. 340-173.00r.
- Allen, Charles F., 10% to Booth, Frank H. Powered swing. 3,692,305, 9-19-72, Cl. 272-86.000.
- Allen, Charles R. Snap on drywall fastening system. 3,686,810, 8-29-72, Cl. 52-243.000.
- Allen, Charles R. Snap on drywall fastening system II. 3,705,471, 12-12-72, Cl. 52-243.000.
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Billeter, Henry R.; and Allen, Charles S., 3,695,288.
- Allen, Clayton H.; and Heine, John C., to Bolt Beranek and Newman Inc. Linear phonograph record strip. 3,640,539, 2-8-72, Cl. 274-42.
- Allen, Clifford W., to Westinghouse Air Brake Company. Low to high fluid pressure interface apparatus. 3,638,670, 2-1-72, Cl. 137-81.5.
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- Allen, Daniel E., to Hewlett-Packard Company. Servosystem for graphical recorder. 3,701,992, 10-31-72, Cl. 346-32.000.
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- Allen, Dillis V. Vehicle trackway. 3,664,583, 5-23-72, Cl. 238-5.
- Allen, Donald F., to Ki-Ada of America, Inc. Process for making food sandwich. 3,656,968, 4-18-72, Cl. 99-87.000.
- Allen, Donald J.: See—
Kuftrin, Frederick W.; Virnoche, Paul R.; Allen, Donald J.; Gokey, Phillip E.; and Rose, Frederick A., 3,694,825.
- Allen, Donald J.; and Bondi, Joseph V., to Merck & Co., Inc. Indomethacin suppositories. 3,644,630, 2-22-72, Cl. 424-274.
- Allen, Donald J.; and O'Neill, Joseph L., to Merck & Co., Inc. Stabilized aqueous suspension of calcium (-) (cis-1, 2-epoxypropyl)-phosphonate. 3,678,163, 7-18-72, Cl. 424-203.000.
- Allen, Edward L., to Ingersoll-Rand Company. Fluid power tool. 3,643,750, 2-22-72, Cl. 173-170.
- Allen, Edward M., to PPG Industries, Inc. Process for preparing pigmentary metal oxide. 3,650,694, 3-21-72, Cl. 23-202.
- Allen, Edward Merle, to PPG Industries, Inc. Production of caustic soda prills. 3,704,102, 11-28-72, Cl. 23-302.000.
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- Allen, Elmer Lawrence, Jr.: See—
Kawamoto, Hiroshisa; and Allen, Elmer Lawrence, Jr., 3,702,971.

- Allen, Elmo Paul. Combination table bar cabinet. 3,695,742, 10-3-72, Cl. 312-237.000.
- Allen, Eugene S.; and Gavrias, Royce S., to Cyprus Mines Corporation. Method of recovering water-soluble nonferrous metal sulfates from sulfur-bearing ores. 3,642,435, 2-15-72, Cl. 23-117.
- Allen, Frances Mignon. Portable bath capsule. 3,677,263, 7-18-72, Cl. 128-24.100.
- Allen, Francis E. Shear blade. 3,693,675, 9-26-72, Cl. 143-22.000.
- Allen, Frank D.: See—
DeMeyer, Dennis E.; and Allen, Frank D., 3,647,448.
- Van Allan, James A.; De Meyer, Dennis E.; and Allen, Frank D., 3,642,479.
- Allen George C., to Celanese Corporation. Oxidation of unsaturated aldehydes to the corresponding acids. 3,644,509, 2-22-72, Cl. 260-530.
- Allen, George Rodger, Jr.: See—
Littell, Ruddy; and Allen, George Rodger, Jr., 3,634,420.
- Poletto, John Frank; Allen, George Rodger, Jr.; and Weiss, Martin Joseph, 3,646,053.
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- Allen, Glenn L.: See—
Marks, Joseph D.; Le Beck, Norman G.; and Allen, Glenn L., 3,674,181.
- Allen, Gordon H.; Hosack, Robert C.; Schoening, Werner P.; and Yaeger, Luther L., to Griffolyn Company, Incorporated. Location of underground utility lines. 3,633,533, 1-11-72, Cl. 116-114.
- Allen, Harold A.: See—
Gartman, William W.; Evans, James G.; and Allen, Harold A., 3,701,682.
- Allen, Harry W.: See—
Allen, Mary E.; and Allen, Harry W., 3,664,320.
- Allen, Henry C., to United States of America, Army. Solid propellant compositions containing hydroxymethyl-terminated polydienes. 3,695,952, 10-3-72, Cl. 149-19.000.
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- Allen, Herbert. Valve. 3,695,579, 10-3-72, Cl. 251-174.000.
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- Allen, Holless W. Arrow rest. 3,672,347, 6-27-72, Cl. 124-41.000.
- Allen, Irving, to Sargent & Company. Compound action tool. 3,704,620, 12-5-72, Cl. 72-409.000.
- Allen, John. Fence. 3,648,981, 3-14-72, Cl. 256-24.
- Allen, John E. Shaft or stack furnace and method and apparatus for lining same. 3,672,649, 6-27-72, Cl. 263-46.000.
- Allen, John Kenneth; and Norman, Marvin Neil, to RCA Corporation. Television image control circuit. 3,692,931, 9-19-72, Cl. 178-730r.
- Allen, John W.: See—
Sanders, Wes E.; and Allen, John W., 3,685,093.
- Allen, John W., to Stanray Corporation. Method of making reticulated bar grating. 3,651,552, 3-28-72, Cl. 29-160.
- Allen, John Wight, to Lubrizol Corporation. The Nitrogen-, phosphorus- and sulfur-containing lubricant additives. 3,655,556, 4-11-72, Cl. 252-32.7.
- Allen, Joseph C.; and Bauer, Charles L., to Texaco Inc. Method of treating a subterranean hydrocarbon-bearing formation. 3,638,727, 2-1-72, Cl. 166-259.
- Allen, Joseph H.: See—
Hughes, Roland O.; and Allen, Joseph H., 3,641,323.
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- Allen, Kenneth M. Circular stair with central support and disc spacers between treads. 3,673,752, 7-4-72, Cl. 52-187.000.
- Allen, Kenneth M.; and Harper, Chester H. Pulsing conveyors. 3,685,703, 8-22-72, Cl. 222-373.000.
- Allen, Laird R., Jr., to Westinghouse Electric Corporation. Synchronous-type circuit breaker having two independently-operable mechanisms. 3,660,625, 5-2-72, Cl. 200-148.
- Allen, Larry Carl; and Romero, Roderic, to Bell Telephone Laboratories, Incorporated. Information recording system. 3,689,703, 9-5-72, Cl. 179-18.00b.
- Allen, Lawrence E.: See—
Boone, Jerry C.; and Allen, Lawrence E., 3,698,164.
- Allen, Lloyd R. Hybrid casting-hot working process for shaping magnesium, aluminum, zinc and other die casting metals. 3,650,312, 3-21-72, Cl. 164-55.
- Allen, Lloyd R., to National Research Corporation. Composite materials with flake reinforcement. 3,661,662, 5-9-72, Cl. 156-62.2.
- Allen, Lloyd R., to National Research Corporation. Boron carbide film product. 3,671,306, 6-20-72, Cl. 117-138.80n.
- Allen, Louis N., to American Cyanamid Company. Recovery of sulfur from naturally occurring ores. 3,634,046, 1-11-72, Cl. 23-308.
- Allen, Martin A.: See—
Villers, Philippe; Allen, Martin A.; and Mulvaney, James M., 3,660,157.
- Allen, Marvin M.: See—
Cox, Arthur R.; and Allen, Marvin M., 3,677,830.
- Allen, Mary E.; and Allen, Harry W. Contour vise. 3,664,320, 5-23-72, Cl. 125-35.000.
- Allen, Merton, to Environment-One Corporation. Controlled environment apparatus and process for plant husbandry. 3,673,733, 7-4-72, Cl. 47-58.000.
- Allen, Michael George: See—
Rambosek, George M.; Allen, Michael George; and Van Dyke Tiers, George, 3,697,485.
- Allen, Mona Armstrong: See—
DeMeyer, Dennis E.; and Allen, Frank D., 3,647,448.
- Van Allan, James A.; De Meyer, Dennis E.; and Allen, Frank D., 3,642,479.
- Allen, Nicholas: See—
Adams, Don L.; and Allen, Nicholas, 3,665,217.
- Allen, Norman T.: See—
Wilson, Fred A.; and Allen, Norman T., 3,672,403.
- Allen, Paul R.: See—
Coffelt, Sheldon L.; Allen, Paul R.; and Crook, John B., 3,631,976.
- Allen, Paul T.: See—
Drinkard, B. M.; Allen, Paul T.; and Unger, Edward H., 3,653,184.
- Drinkard, B. M.; Allen, Paul T.; and Unger, Edward H., 3,656,278.
- Allen, Paul T.; and Drinkard, B. M., to Mobil Oil Corporation. Separation of mixtures with modified zeolites. 3,698,157, 10-17-72, Cl. 55-67.000.
- Allen, Paul V.; and McAllister, Edward W., to Gulf Refining Company. Composite pipeline sampler. 3,681,997, 8-8-72, Cl. 73-422.0tc.
- Allen, Philip H.: See—
Selleck, Robert W.; and Allen, Philip H., 3,672,594.
- Allen, Philip J. Eye glass lens adjuster. 3,659,931, 5-2-72, Cl. 351-41.000.
- Allen, Philip J., to United States of America, Navy. Optical rotary joint. 3,703,330, 11-21-72, Cl. 350-157.000.
- Allen, Randy B. Amphibian camper vehicle. 3,673,622, 7-4-72, Cl. 9-1.005.
- Allen, Richard A., to Avco Corporation. Fade testing method and device using filtered ultra-violet radiation. 3,675,477, 7-11-72, Cl. 73-150.000.
- Allen, Richard G.; Bauer, Benjamin B.; and Torick, Emil L., to Columbia Broadcasting System, Inc. Noise monitoring apparatus. 3,661,224, 5-9-72, Cl. 181-5.
- Allen, Richard G.; and Torick, Emil, to Columbia Broadcasting System, Inc. Dynamic presence equalizer. 3,668,322, 6-6-72, Cl. 179-1.0vc.
- Allen, Richard H., to Joseph, David J., Company. The Pollution control apparatus for combustive dismantling. 3,693,559, 9-26-72, Cl. 110-18.00r.
- Allen, Richard L., to Lockheed Aircraft Corporation. Safe arm initiator. 3,658,009, 4-25-72, Cl. 102-70.200.
- Allen, Richard W., to Singer Company. The Escapement mechanism. 3,645,373, 2-29-72, Cl. 197-82.
- Allen, Richard W., to Singer Company. The Escapement initiating mechanism for typewriter. 3,645,374, 2-29-72, Cl. 197-97.
- Allen, Robert C., Sr., to Atomic Power Development Associates, Inc. Heat exchanger. 3,670,810, 6-20-72, Cl. 165-70.000.
- Allen, Robert E.; Thompson, Charles R.; and Hidalgo, John, to Cutter Laboratories, Inc. Method for the production of the (-)-optical isomer of α -racemate 2-(2-ethyl-2-phenyl-1,3-dioxo-lan-4-yl)-piperidine. 3,655,680, 4-11-72, Cl. 260-293.67.
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Juda, Walter; Allen, Robert J.; and Petrow, Henry G., 3,640,774.
- Allen, Robert J.; and Novack, Robert Lee, to Prototech Company; division of Bolt Beranek and Newman Inc. Method of operating fuel cell and preventing corrosion. 3,640,773, 2-8-72, Cl. 136-86.
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- Allen, Robert K.: See—
Glass, Marvin I.; Morrison, Howard J.; and Allen, Robert K., 3,680,254.
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Curtis, Richard S.; and Allen, Rodger E., 3,677,807.
- Allen, S. A., Inc.: See—
Allen, C. Andrew, 3,640,322.
- Allen, Terry F.: See—
Bhakuni, Roop S.; Morgan, John C.; and Allen, Terry F., 3,661,623.
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- Allen, Therron J., Jr. Alarm system. 3,644,912, 2-22-72, Cl. 340-213.
- Allen, Thomas E., to Caterpillar Tractor Company. High pressure relief belleville valve. 3,646,957, 3-7-72, Cl. 132-525.
- Allen, Thomas E., to Caterpillar Tractor Company. Stabilizing strut for tracked loader. 3,677,427, 7-18-72, Cl. 214-140.000.

- Allen, Wallace B.: See—
Blount, Floyd E.; and Allen, Wallace B., 3,689,395.
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Harrington, Herbert A.; Allen, William M.; and Kuhn, William C., 3,643,587.
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Boysen, Gerd C.; and Hannula, Raymond H., 3,691,493.
Brandt, Ivan L.; and Penrod, Orville R., 3,639,274.
Dummermuth, Ernst, 3,649,899.
Dummermuth, Ernst, 3,701,890.
Freitag, Lawrence F., 3,691,430.
Kiffmeyer, William W., 3,643,115.
McMartin, William J.; and Weidmann, Hans E., 3,651,400.
Slagg, James E.; Nelson, Grant W.; Moffitt, Jerry T.; and Balint, Joseph A., 3,676,822.
Struger, Odo J.; Kiffmeyer, William W.; and Shaum, Loren E., 3,646,360.
Walters, Ronnie G., 3,673,512.
Wielebski, Wayne H., 3,666,998.
- Allen-Bradley Company, mesne: See—
Dummermuth, Ernst H., 3,633,013.
Hohberger, Clive P., 3,665,948.
Kosem, Marion, 3,656,377.
Kosem, Marion, 3,668,500.
Kosen, Marion, 3,651,314.
Rosener, Harvey J., 3,644,723.
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Boghossian, Malcolm P.; and Wilson, John W., Jr., 3,702,364.
Kotzbauer, Judith M., 3,681,492.
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- Alley, George W., II: See—
Frank, Lee F.; and Alley, George W., II, 3,660,656.
- Alley, John H.: See—
Parker, Edward H.; Gould, William F.; and Alley, John H., 3,682,078.
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Bonesteel, Kenneth E.; and Kinkopf, Edward J., 3,631,996.
Polen, Karl L., 3,653,518.
- Alliance Manufacturing Company, Inc., The: See—
Carli, Alvin J., 3,694,664.
Deming, Andrew F., 3,667,024.
Deming, Andrew F., 3,685,142.
Deming, Andrew F., 3,694,903.
Deming, Andrew F.; and Lucas, Clyde M., 3,696,680.
- Allibert, Colette: See—
Bonnier, Etienne; Allibert, Colette; Driole, Jean; and Wicker, Alain, 3,672,872.
Bonnier, Etienne; Allibert, Colette; Driole, Jean; and Wicker, Alain, 3,700,428.
- Allied Automation, Inc.: See—
James, Frazier N., Sr., 3,635,321.
- Allied Chemical Corporation: See—
Anello, Louis G.; Boghosian, Edward Michael; Jones, Edward S.; Minhas, Pritam S.; Price, Alson K.; and Sweeney, Richard F., 3,641,083.
Anello, Louis G.; and Sweeney, Richard F., 3,644,454.
Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton H., 3,647,887.
Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton H., 3,647,889.
Anello, Louis G.; Boghosian, Edward Michael; Jones, Edward S.; Minhas, Pritam S.; Price, Alson K.; and Sweeney, Richard F., 3,651,105.
Anello, Louis G.; and Sweeney, Richard F., 3,651,120.
Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton H., 3,655,677.
Anello, Louis G.; and Sweeney, Richard F., 3,657,320.
Anello, Louis G.; and Sweeney, Richard F., 3,663,590.
Anello, Louis G.; and Sweeney, Richard F., 3,678,068.
Anello, Louis G.; Sweeney, Richard F.; Jones, Edward S.; Walsh, John T.; and Thompson, John J., Jr., 3,692,885.
Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton Herbert, 3,697,564.
Anello, Louis G.; and Sweeney, Richard F., 3,700,646.
Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton Herbert, 3,706,773.
Bailey, John H., 3,649,217.
Balint, Laszlo J.; Poth, David W. H., Jr.; and Snider, Orville E., 3,679,368.
Balint, Laszlo J.; Lazarus, Stanley D.; and Russell, William N., 3,689,461.
Balint, Laszlo J.; Lazarus, Stanley D.; and Russell, William N., 3,697,579.
Baltakmens, Gotlib; and Tourish, John P., 3,650,969.
Banush, Russell S.; and Hagerty, Donald P., 3,668,131.
Barton, Oliver A.; and Murphy, Kevin P., 3,634,274.
Barton, Oliver A.; and Murphy, Kevin P., 3,686,130.
Barton, Oliver A.; and Murphy, Kevin P., 3,692,686.
Barton, Oliver A.; and Murphy, Kevin P., 3,694,368.
Beckham, Leland J., 3,635,661.
Beckham, Leland J., 3,694,433.
Beyleveld, Wilhelmus M.; Oxenrider, Bryce C.; and Woolf, Cyril, 3,697,562.
Bhuta, Mahendra; and Sacks, William, 3,697,368.
Boggs, Beryl Aaron; and Quinn, Robert Ellis, 3,641,836.
Bonfield, John Henry, 3,684,432.
Booth, Frederick C., 3,665,385.
Bor, Thomas P., 3,673,147.
Bostian, Logan C., 3,704,112.
Brown, Russell A., 3,689,216.
Brundege, Jasper A., 3,668,256.
Buckman, Walter R., 3,644,545.
Cahill, George N.; Stringer, Frederick D.; and Whitcher, Gary R., 3,688,370.
Cain, Audley L., 3,646,050.
Carr, Robert D.; Lenoir, Fred W.; and Reedy, Ora Lee, 3,688,998.
Carter, John Ed, 3,694,019.
Chandrasekaran, Swayambu, 3,684,786.
Chandrasekaran, Swayambu; and Mueller, Max B., 3,706,723.
Cheema, Zafarullah K.; Apice, Pawquale J.; and Little, Edwin D., 3,692,845.
Chu, Arthur S.; and Loozen, Joseph H. F., 3,632,652.
Cobbledick, David Stanley, 3,658,762.

- Craven, William J., 3,639,381.
Crescentini, Lamberto, 3,655,819.
Cronk, Harold C., 3,659,000.
Culkowski, Edwin M.; Gore, Donald B.; and Kassay, Andrew W., 3,686,105.
Dardoufas, Kimon Constantine, 3,672,977.
Dardoufas, Kimon Constantine, 3,687,721.
Dear, Robert E. A.; and Gilbert, Everett E., 3,646,221.
Degginger, Edward R., 3,649,196.
Degginger, Edward R.; and Goetz, Frederick J., 3,674,878.
Degginger, Edward R., 3,676,169.
Degginger, Edward R., 3,690,727.
Dementi, Brian A., 3,696,071.
Ebert, David A., 3,639,451.
Esterhoy, Charles J., Jr.; and Hunter, William D., Jr., 3,671,202.
Figiel, Francis J., 3,663,475.
Fischer, Harry C., 3,685,310.
Flanner, Lloyd T., 3,650,982.
Fleming, Roger A.; Harlacher, William H.; Spalek, Raymond J.; and Lowe, James B., 3,658,981.
Formaini, Richard E., 3,677,736.
French, Gordon Blair; and Slezak, Michael, 3,632,171.
Friedman, Cecil A.; Scarcello, Francis J.; Shultz, Andrew; and Walter, Julius E., 3,634,271.
Fuhrmann, Robert; Pisanchnyn, John; and Koff, Fred William, 3,668,182.
Garofano, Norman R.; and Follows, Alan G., 3,705,790.
Gilbert, Everett E.; and Dear, Robert E. A., 3,655,786.
Goetz, Frederick J., 3,668,189.
Harrison, David M.; 3,645,431.
Hartford, Winslow H.; and Smalley, Edmund W., 3,691,027.
Hartman, Paul F., 3,639,189.
Hino, John Bernhard; and Taub, Bernard, 3,678,011.
Hoare, Robert C., 3,655,640.
Honjoh, Masao L.; and Sifniades, Stylianos, 3,637,816.
Howard, Carlton J.; and Port, Eugene B., 3,634,999.
Hoyer, Fridolin A., 3,642,884.
Hoyt, Ernest B., 3,664,812.
Josephsen, Roy C.; and Weir, Clifford L., 3,694,529.
Kastenbein, Ernest L.; and Geltman, Gerald L., 3,700,597.
Kennedy, David K., 3,635,670.
Khan, Aziz Urrehman; Price, Alson Kay; and Sweeney, Richard F., 3,651,073.
Knutson, Harry; and Dench, John E., 3,658,741.
Kolyer, John M.; and Kveglis, Albert A., 3,632,837.
Kolyer, John M., 3,658,747.
Kolyer, John M.; and Kveglis, Albert A., 3,683,048.
Kolyer, John McNaughton; and Kveglis, Albert Andrew, 3,669,827.
Kramer, John B., 3,664,315.
Kramer, John B., 3,664,818.
Kray, Raymond J.; Tetenbaum, Marvin T.; Wenner, Wilbert M.; and Barton, Oliver A., 3,639,326.
Kremers, Frank J.; and Rhodes, Michael S., 3,706,771.
Kubaneck, Anne-Marie Margaretha; and Kim, Young Chul, 3,692,775.
Kubaneck, Anne-Marie W., 3,639,480.
Kushnick, Julian H., 3,643,971.
Kutsher, George S.; and Elliott, George A., 3,657,339.
Lamb, George E. R.; Prevorsek, Dusan C.; and Oswald, Hendrikus J., 3,634,163.
Lamb, George E. R.; Prevorsek, Dusan C.; Kotliar, Abraham M.; and Oswald, Hendrikus J., 3,705,074.
Lane, Robert E.; and Stoddard, Xerxes T., 3,689,229.
Lazarus, Stanley D.; and Twilley, Ian C., 3,639,350.
Lazarus, Stanley D., 3,641,111.
Lazarus, Stanley D.; and Christensen, Poul N., 3,705,133.
Lazarus, Stanley David; and Lofquist, Robert Alden, 3,701,757.
Lazarus, Stanley David, 3,705,878.
Li, Hsin Lang; Lamb, George Edwin Robert; and Prevorsek, Dusan Ciril, 3,686,722.
Lichstein, Bernard M.; and Du Bois, Robert J., 3,657,235.
Lichstein, Bernard M.; and Woolf, Cyril, 3,696,150.
Lichstein, Bernard M.; and Woolf, Cyril, 3,705,007.
Lichstein, Bernard M.; and Wolf, Cyril, 3,706,795.
Litke, Alvin C., 3,635,944.
Litt, Morton H.; Lund, Richard B.; Vitrone, John; and Herz, Jack L., 3,681,329.
Litt, Morton H.; Lund, Richard B.; Vitrone, John; Herz, Jack L.; and O'Donnell, Francis C., 3,681,333.
Little, Edwin D., 3,637,557.
Little, Edwin D.; and Hirsch, Clarence A., 3,639,115.
Little, Edwin D.; and Cheema, Zafarullah K., 3,646,235.
Little, Edwin D., 3,697,584.
Lofquist, Robert A.; and Hayes, Brendan T., 3,655,821.
Lohr, Thomas E., 3,632,157.
Lohr, Thomas E., 3,632,166.
Lohr, Thomas E.; and Stephenson, Robert L., 3,663,057.
Lohr, Thomas E., 3,674,284.
Lohr, Thomas E.; and Stephenson, Robert L., 3,695,696.
- Lund, Richard B.; Vitrone, John; and Sereno, John F., 3,634,523.
Mago, Brij Mohan; and Bruton, James Isaac, 3,690,362.
Mason, Charles D.; and Rakus, Julius P., 3,660,335.
Mayer, Richard E.; and Crescentini, Lamberto, 3,644,572.
Mayer, Richard E.; Birenzveig, Ammon; and Weedon, Gene C., 3,692,867.
McCullough, Charles D., 3,696,004.
Meneghini, Carlo; Mayer, Richard Eugene; Lazarus, Stanley David; and Rainer, Norman Barry, 3,654,679.
Miller, William A., 3,640,984.
Moore, William P.; MacGregor, Rob R.; and Sierichs, William C., 3,642,439.
Mueller, Max B.; Salatiello, Peter P.; and Kaufman, Herman S., 3,655,611.
Murphy, Kevin P.; and Orfeo, Sabatino Robert, 3,634,255.
Murphy, Kevin P.; and Stahl, Richard F., 3,642,639.
Murray, Edward J.; and Winstrom, Leon O., 3,671,588.
Murray, Edward J.; and Winstrom, Leon O., 3,686,318.
Murray, John J., 3,657,306.
Newallis, Peter E.; and Cheema, Zafarullah K., 3,636,204.
Nienart, Louis F., 3,705,112.
Nychka, Henry R., 3,637,868.
Obetz, James Edgar; and Dardoufas, Kimon Constantine, 3,681,244.
O'Neill, Charles T.; Krigbaum, Ronald S.; and Nussbaum, Ralph W., 3,636,141.
Orfeo, Sabatino R.; and Murphy, Kevin P., 3,640,869.
Oxenrider, Bryce C.; Litt, Morton H.; and Slavik, Ferdinand M., 3,639,464.
Oxenrider, Bryce C.; and Woolf, Cyril, 3,646,153.
Oxenrider, Bryce C., 3,668,181.
Page, Walter; Schevey, William R.; and Vander Mey, John E., 3,655,533.
Paterson, Richard M. L.; and Skrypa, Michael J., 3,656,973.
Pierce, Arleen C., 3,661,743.
Pisanchnyn, John; Fuhrmann, Robert; Sifniades, Stylianos; and Tunick, Allen Abraham, 3,681,460.
Pistilli, Donald J.; and Degginger, Edward R., 3,679,462.
Port, Eugene B.; and Howard, Carlton J., 3,653,848.
Prevorsek, Dusan C.; Li, Hsin L.; Koch, Paul J.; Oswald, Hendrikus J.; and Schmitt, George J., 3,690,980.
Price, Alson K.; and Sukornick, Bernard, 3,674,798.
Pringle, William L., 3,632,057.
Pulkkinen, Erkki J., 3,658,941.
Radke, Donald G., 3,694,003.
Rast, Gustav E.; and Steiner, Russell L., 3,640,733.
Rothwell, Ronald E.; and Beringer, Charles W., 3,678,676.
Rumanowski, Edmund J., 3,647,413.
Sack, John J., 3,638,755.
Sadle, Alexander, 3,660,392.
Santimauro, John F.; and Gerson, Herman, 3,668,225.
Saunders, Leonard Victor John; and Rochell, David, 3,686,826.
Schaefer, Michael D., 3,691,521.
Schaffhauser, Robert J.; and Mason, Charles D., 3,635,933.
Schaffhauser, Robert J.; and Mason, Charles D., 3,635,934.
Schaffhauser, Robert J.; and Parris, Chester L., 3,651,011.
Scheirer, David E.; and Klingelhoefer, William Christian, 3,684,434.
Schevey, William R., 3,661,731.
Schmitt, George J.; Klein, Karl P.; and Reimschuessel, Herbert K., 3,632,851.
Schmitt, George J.; Klein, Karl P.; and Reimschuessel, Herbert K., 3,634,363.
Schroeder, Kenneth H.; and Kelly, George J., Jr., 3,676,219.
Selman, Murray; Wamser, Christian A.; and Wilkalis, John E., 3,681,035.
Sherman, Norman, 3,634,543.
Shultz, Andrew; and Kaplan, Melvin, 3,634,361.
Sibilia, John P.; Woolf, Cyril; and Frank, John, 3,657,362.
Smith, Burton F. B.; and Siegmund, John M., 3,656,657.
Snider, Orville E.; Loughlin, James E.; and Orthel, Hans, 3,635,653.
Spatz, Sydney M.; Bailey, Maurice E.; and Evans, Francis E., 3,637,514.
Spiliotis, Nicholas J., 3,647,652.
Stephenson, Robert L., 3,674,059.
Stephenson, Robert L., 3,675,281.
Stephenson, Robert L., 3,680,884.
Stephenson, Robert L.; and Loomba, Yogi, 3,680,914.
Stewart, Aubrey P., Jr.; Dreir, Clarence R.; and Falk, John D., 3,666,497.
Stewart, Aubrey P., Jr.; and Falk, John D., 3,669,675.
Stoddard, Xerxes T., 3,689,226.
Stoffel, Robert W., 3,648,946.
Stoffel, Robert W., 3,679,152.
Stoffel, Robert W., 3,695,697.
Strauss, Cyrus M.; and Bauer, John M., 3,650,960.
Sweeney, Richard F.; and Price, Alson K., 3,642,880.

- Sweeney, Richard F.; Price, Alson K.; and Khan, Aziz U., 3,644,513.
- Sweeney, Richard F.; and Price, Alson K., 3,651,069.
- Sweeney, Richard F.; Khan, Aziz Urrehman; Price, Alson K.; Jones, Edward Stephen; and Otto, Julian A., 3,674,800.
- Sweeney, Richard F.; and Price, Alson K., 3,681,413.
- Sweeney, Richard F.; and Yao, Charles Cheng-Yu, 3,700,733.
- Taub, Bernard, 3,689,442.
- Tetenbaum, Marvin T.; and Degginger, Edward R., 3,637,838.
- Tetenbaum, Marvin T., 3,654,278.
- Tetenbaum, Marvin T., 3,681,339.
- Tetenbaum, Marvin T.; and Degginger, Edward R., 3,692,908.
- Tewksbury, Floyd L., Jr.; and Demler, Walter R., 3,673,178.
- Turner, Garland L., 3,635,641.
- Twiley, Ian C.; Russell, William N.; and Peterson, Weldon H., 3,704,100.
- Van Peppen, Jan F.; and Jerolamon, David, 3,689,479.
- Wang, James C., 3,661,677.
- Watson, William E.; and Aubrecht, Donald A., 3,653,833.
- Weedon, Gene C.; and Mumford, Robin B., 3,635,911.
- Weedon, Gene C.; Lofquist, Robert A.; and Mumford, Robin B., 3,642,714.
- Weedon, Gene C.; and Crescentini, Lamberto, 3,657,386.
- Wells, Rodney L.; Ulmer, Harry E.; and Mason, Paul J., 3,697,249.
- Wilson, Benjamin B.; and Wortham, Joseph S., 3,644,642.
- Wilson, Benjamin B., 3,653,909.
- Winckhofer, Robert Charles; Weedon, Gene Clyde; and Collingwood, George Howard, 3,673,295.
- Winckhofer, Robert C.; and Weedon, Gene C., 3,655,858.
- Wool, Cyril; and Michael, Richard O., 3,687,626.
- Woolf, Cyril; Oxenrider, Bryce C.; and Beyleveld, Wilhelmus M., 3,705,917.
- Wooster, George S.; and Delgado, Frank M., 3,639,355.
- Wooster, George Sidney; and Kirss, Voldemar, 3,668,173.
- Wortham, Joseph S., 3,684,518.
- Young, David E.; Anderson, Lowell R.; and Fox, William B., 3,654,335.
- Young, David E.; Anderson, Lowell Ray; and Fox, William Burke, 3,681,423.
- Young, David E.; Anderson, Lowell R.; and Fox, William B., 3,689,563.
- Allied Chemical Corporation: See—
Jenks, Theodore E.; and Bittner, Edward R., 3,636,199.
- Allied Colloids Manufacturing Company Limited: See—
Rothwell, Eric, 3,658,474.
- Allied Control Company, Inc.: See—
Olsen, Benny; and Olsen, Zenny, 3,695,295.
- Tenenbaum, Mircea M., 3,679,912.
- Tenenbaum, Mircea M., 3,689,807.
- Allied Industrial Components: See—
Perry, Dean A., 3,684,939.
- Allied Machine & Engineering Corporation: See—
Stokey, William H., 3,667,768.
- Allied Paper Incorporated: See—
Levy, Robert M.; Thiessen, Robert J.; and Growald, Bert, 3,653,894.
- Levy, Robert M., 3,660,581.
- Allied Power Industries, Inc.: See—
Mott, Daniel M., 3,686,954.
- Allied Products Corporation: See—
Addison, William P., Jr., 3,698,980.
- Allied Research Associates, Inc.: See—
Driscoll, John J., 3,664,263.
- Allied Research Products, Inc.: See—
Duchene, Joseph R., 3,697,392.
- Mallory, Glenn O., 3,674,550.
- Allied Technology Inc.: See—
Riehl, Roger W., 3,633,694.
- Allied Thermal Corporation: See—
Drzala, Raymond J., 3,640,307.
- Hedrick, Warren R., 3,683,786.
- Allied Tube & Conduit Corporation: See—
Dunbar, Glenn G., 3,674,166.
- Krengel, Theodore H.; and Pool, Richard L., 3,673,980.
- Krengel, Theodore H.; Ostrowski, Arthur E.; and Raymond, Anthony J., 3,696,503.
- Ostrowski, Arthur E.; and Basile, Raffaele, 3,667,095.
- Allied Welder Corporation: See—
Jewett, Walter L., 3,677,053.
- Alliegro, Richard A.; and Learned, Addison W., III, to Norton Company. Composite ceramic armor with metallic support strip. 3,683,828, 8-15-72, Cl. 109-83.000.
- Alliegro, Richard A., to Norton Company. Silicon nitride kiln furniture. 3,705,714, 12-12-72, Cl. 263-47.00r.
- Alliger, Howard. Multiple screen construction. 3,659,402, 5-2-72, Cl. 55-233.
- Alligood, Lawrence M., Jr. Fluid dispensing device. 3,667,464, 6-6-72, Cl. 128-214.00c.
- Allimon, Willard F., to Shell Oil Company. Dumbell scraper. 3,667,544, 6-6-72, Cl. 166-170.
- Alling, Richard L., to Torrington Company, The. High speed roller thrust bearing. 3,644,007, 2-22-72, Cl. 308-235.
- Allingham, Robert P.: See—
Tate, Bryce E.; and Allingham, Robert P., 3,644,635.
- Allingham, Robert P.; and Beereboom, John J., to Pfizer Inc. Use of isomaltol esters, as antimicrobial agents. 3,658,983, 4-25-72, Cl. 424-45.
- Allington, George R.: See—
Converse, Vernon G., III; Allington, George R.; and Mosher, Peter J., 3,631,967.
- Converse, Vernon G., III; Allington, George R.; Mosher, Peter J.; and Seymour, Lee J., 3,648,819.
- Allington, Robert W.; and Griess, Herbert C., to Instrumentation Specialties Company. Sample, hold and subtract circuit. 3,667,056, 5-30-72, Cl. 328-151.000.
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Goodman, Ernest A., 3,706,060.
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Bourke, Robert F.; and Simons, Jon W., 3,656,006.
- Rettig, Charles E., 3,636,373.
- Allis-Chalmers Manufacturing Company: See—
Armitage, Charles H.; Peek, Henry L.; and Pflanz, Herbert M., 3,641,293.
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- Attia, Edward A.; and Dethlefsen, Rolf, 3,674,958.
- Attia, Edward A., 3,700,842.
- Berg, David A., 3,643,551.
- Berg, David A., 3,674,096.
- Berg, David A., 3,700,044.
- Boersma, Richard E., 3,700,383.
- Boone, Jerry C.; and Allen, Lawrence E., 3,698,164.
- Brunner, Richard G., 3,671,696.
- Brunner, Richard G., 3,671,907.
- Clark, Thomas F., 3,662,135.
- Clark, Thomas F., 3,674,959.
- Cleek, Alvin L., 3,704,809.
- Crooks, James W., 3,673,890.
- Dancy, Robert C., Jr., 3,640,276.
- De Noyer, Donald B., 3,661,704.
- De Noyer, Donald B., 3,661,705.
- De Noyer, Donald B., 3,661,706.
- Dreisin, Alexander, 3,667,437.
- Dreisin, Alexander, 3,673,996.
- Drewry, Hugh S., 3,647,195.
- Ermi, Heinrich H., 3,674,956.
- Evans, John H., 3,692,149.
- Frans, Robert D., 3,661,553.
- Garnett, Donald, 3,700,062.
- Gilmore, Thomas P., 3,701,013.
- Goodman, Ernest A., 3,666,992.
- Goodman, Ernest A.; and Handherhan, Joseph P., 3,699,488.
- Grubb, Robert L., 3,663,910.
- Hahn, Mathew P., 3,666,056.
- Hahn, Mathew P., 3,693,793.
- Hahn, Mathew P., 3,704,782.
- Harrison, William J., 3,647,013.
- Harvey, Dennis G., 3,659,681.
- Harvey, Dennis G., 3,698,504.
- Haupt, Robert C.; and Peterson, Donald E., 3,643,976.

- Heian, Glenn A., 3,653,645.
- Honsinger, Vernon B., 3,652,885.
- Horn, John M., 3,695,145.
- Jenness, Raymond C., 3,667,819.
- Jones, Elborn W., Jr., 3,700,256.
- Kohl, Robert F.; and Heian, Glenn A., 3,692,287.
- Korb, Eugene V.; and Haupt, Robert C., 3,667,563.
- Krumholz, Frank C., 3,701,327.
- Krutis, Edward V., 3,702,196.
- Lesiecki, Gerald, 3,679,217.
- Manion, Jean P.; Philosophos, John A.; and Robinson, Marquis B., 3,650,955.
- Manion, Jean P.; and Davies, Daniel J., 3,674,667.
- Matthews, Ralph W.; Bernhoff, Gerald W.; and Schmidt, Michael R., 3,633,700.
- Matthews, Ralph W.; Bernhoff, Gerald W.; and Schmidt, Michael R., 3,670,823.
- Mayo, Howard A., Jr.; and Murphy, Edwin W., 3,693,356.
- McBurnett, James R., 3,644,915.
- McDonald, Daniel, 3,643,933.
- Miller, Ronald D., 3,659,405.
- Nitz, Allen R., 3,641,300.
- Peek, Henry L., 3,674,955.
- Pflanz, Herbert M., 3,676,621.
- Pflanz, Herbert M., 3,678,435.
- Pflanz, Herbert M., 3,706,012.
- Pouli, Dirk; and Larson, Theodore L., 3,682,709.
- Reaves, Robert S.; and Bordelon, Madel A., 3,659,403.
- Reaves, Robert S., 3,670,913.
- Ringland, William L.; and Kaeser, Ernst K., 3,641,467.
- Rockwell, Harvey W.; and Carlson, Marvin J., 3,642,160.
- Rockwell, Harvey W.; and Poore, Wesley A., 3,653,450.
- Ross, Ray C.; and Crum, Robert L., 3,670,835.
- Ross, Roy C.; and Bandy, Larry L., 3,659,668.
- Rossi, Eugene F., 3,661,370.
- Ryzek, William G., 3,638,812.
- Scheinkoenig, Robert J.; and Haupt, Robert C., 3,700,259.
- Schott, Robert E., 3,642,103.
- Slosiarek, Michael L., 3,677,565.
- Smith, Charles W., 3,693,302.
- Stich, Frederick A., 3,700,919.
- Swieckicki, Ignacy, 3,704,856.
- Thiele, Tom N.; Gerlach, Lester O.; and Gilmore, Thomas P., 3,671,746.
- Voth, James W., 3,699,820.
- Wachta, Zygmunt A., 3,707,654.
- Waterman, Michael W., 3,644,859.
- Weggel, Ralph W.; and Blann, William A., 3,644,193.
- Weitala, Larry R.; and Anderson, Ronald G., 3,636,799.
- Zilkals, Juris, 3,678,559.
- Allis-Chalmers Manufacturing Company: See—
Henry, Luke F., 3,694,721.
- Allisbaugh, Howard C., to Lilly, Eli, and Company. Filled capsules. 3,653,500, 4-4-72, Cl. 206-56.
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Brown, Rene P.; Allison, Birt, Jr.; and Meek, Paul D., 3,639,490.
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- Allison, Donald B.: See—
Yates, Kenneth, 3,674,913.
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Hughes, William L.; Allison, Hansel J.; and Ramakumar, Ramachandra G., 3,663,945.
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Erhard, Albert E.; and Allison, Jack B., 3,640,679.
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- Allison, Robert S.: See—
Shire, Harold; Newman, Ira R.; and Allison, Robert S., 3,632,144.
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Ahrholm, Par; Grune, Per-Olof; and Nygaard, Tore, 3,683,142.
- Anderson, Sture, 3,701,933.
- Andersson, Anders R.; and Virsberg, Lars-Goran, 3,670,192.
- Andersson, Nils Eric; and Farkas, Tibor, 3,649,738.
- Aviander, Stig, 3,693,081.
- Berneryd, Sten; and Backskog, Hans, 3,699,289.
- Bildtsen, Christian, 3,688,941.
- Boksjo, Carl Ingvar; and Sehan, Bengt Allan, 3,670,217.
- Burström, Martin; and Nilsson, Jan, 3,654,687.
- Bylund, Per-Ake; Farkas, Tibor; and Andersson, Nils Eric, 3,703,668.
- Dahle, Orvar, 3,648,524.
- Ekstrom, Ake, 3,641,356.
- Ekstrom, Ake, 3,670,236.
- Frank, Kjell, 3,703,676.
- Frank, Kjell; and Johansson, Lennart, 3,703,680.
- Frank, Kjell, 3,705,341.
- Gard, Inge, 3,670,127.
- Granstrom, Staffan N.; and Goransson, Ingemar E., 3,701,357.
- Hellman, Erik, 3,640,116.
- Hermansson, Bo; and Hansson, Curt, 3,684,945.
- Hermansson, Bo; and Thorborg, Kjeld, 3,699,425.
- Hessen, Petter; and Siirak, Ruudi, 3,639,872.
- Isaksson, Sven-Erik, 3,703,278.
- Johansson, Bengt; and Nilsson, Erland, 3,688,155.
- Johansson, Bengt; and Nilsson, Erland, 3,704,388.
- Karlsson, Karl Gosta; and Bostedt, Jan Olof Gustaf, 3,671,029.
- Larker, Hans; and Nilsson, Jan, 3,702,555.
- Larker, Hans; and Nilsson, Jan, 3,702,556.
- Ling, Bernt; Persson, Anders; and Svensson, Olof, 3,694,936.
- Lundstrom, Hans, 3,640,111.
- Lundstrom, Hans, 3,640,186.
- Lundstrom, Hans, 3,695,597.
- Nilsson, Jan; and Larker, Hans, 3,698,220.
- Nylen, Roland, 3,696,296.
- Pucher, Walter, 3,678,335.
- Schei, Asle, 3,662,215.
- Siby, Sture, 3,688,886.
- Sodergard, Bengt Martin, 3,650,895.
- Sundberg, Yngve, 3,706,399.
- Suvanto, Antti; and van Santen, Aart, 3,697,375.
- Svedberg, Per, 3,641,404.
- Thorborg, Kjeld, 3,703,644.
- Uhlmann, Erich, 3,689,823.
- Virsberg, Lars-Goran, 3,641,587.
- Virsberg, Lars-Goran, 3,702,499.
- Von Krusenstierna, Otto, 3,634,140.
- Von Krusenstierna, Otto, 3,683,622.
- Wallen, Bengt, 3,696,017.
- Zinck-Petersen, Jorgen; and Lundqvist, Bertil, 3,670,175.
- Allnutt, Anthony J.: See—
West, Robert N.; Brook, Richard A.; Shaw, Richard G.; Lobb, Daniel R.; and Allnutt, Anthony J., 3,676,008.
- Alloway Manufacturing, Inc., mesne: See—
Eisenhardt, Fred W.; and Ellingson, Hartley N., 3,642,333.
- Tonsfeldt, Wayne S., 3,680,648.
- Alloy Metals, Incorporated: See—
Ullman, Terry S.; and Lecznar, Chester J., 3,639,548.
- Alloys and Chemicals Corporation: See—
Derham, Leslie Jack, 3,650,730.
- Alloys Unlimited Inc.: See—
Laplante, Jerry C.; and Poole, Thomas A., 3,667,942.
- Alliplas A.G.: See—
Baum, Hans Eduard, 3,687,329.
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- Allred, G. Allen: See—
Nielson, Jay P.; and Allred, G. Allen, 3,697,112.
- Allred, James K.: See—
Richens, Kenneth A.; Grover, Scott C.; Allred, James K.; and Shook, James H., 3,632,001.
- Allred Metal Stamping Works, Inc.: See—
Allred, Bobby J., 3,647,271.
- Allsop, Ivor J. Ratcheting buckle for ski boots and the like. 3,662,435, 5-16-72, Cl. 24-70.
- Allspeeds Holdings Limited: See—
Blake, John Berchmans; and Ashworth, Roger Anderton, 3,664,474.
- Allstar Verbrauchsgüter GmbH & Co., KG: See—
Krusche, Kurt; and Zimmermann, Hubert, 3,680,169.
- Allstar Verbrauchsgüter GmbH & Co. KG: See—
Krusche, Kurt; and Zimmermann, Hubert, 3,683,443.
- Allsup, Oliver L. Stock for shoeing animals. 3,659,653, 5-2-72, Cl. 168-44.
- Alltrack Vehicles Limited: See—
Baker, Frederick A., 3,658,358.
- Allum, Keith George: See—
Forbes, Eric Simon; and Allum, Keith George, 3,637,500.
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- Allwood Searle & Timney Limited: See—
Searle, John Gilbert, 3,705,678.
- Allwright, Eric Sydney; and Godwin, Roy Charles, to British Aircraft Corporation Limited. Aircraft doors. 3,647,169, 3-7-72, Cl. 244-129.
- Alm, Gerald F. Hydraulic blind rivet gun. 3,688,551, 9-5-72, Cl. 72-391.000.
- Alm, Rasmus Strande, to Norsk Hydro-Elektrisk Kvaelfakteselskab. Measuring system for an analytical centrifuge. 3,667,851, 6-6-72, Cl. 356-197.000.
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Hedstrom, Albert V., 3,638,442.
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- Almhed, Lars Gosta: See—
Josefsson, Erik Anders Ake; and Almhed, Lars Gosta, 3,633,898.
- Almo Manifold and Tool Company: See—
Courson, Richard B., 3,667,603.
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- Alms, Erhard E. Heater for pressure switch. 3,665,359, 5-23-72, Cl. 337-2.
- Almstead, James L., to Eastman Kodak Company. Disengageable anti-backup mechanism for a film cartridge. 3,705,763, 12-12-72, Cl. 352-78.00r.
- ALN Enterprises: See—
La Neve, Angelo L., 3,664,643.
- Alnor Instrument Company: See—
Obermaier, Alfred A.; and Pierman, Martin J., 3,688,576.
Obermaier, Alfred A.; and Pierman, Martin J., 3,702,566.
- Alnor Instrument Company; division of Illinois Testing Laboratories: See—
Meijer, Robert S., 3,638,488.
- Aloma Products, Inc.: See—
Ring, Raymond M., 3,668,733.
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- Alpert, Jacob J.: See—
Spruegel, Walter, 3,662,627.
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- Alpes Maritimes: See—
Froget, Pierre, 3,701,376.
- Alpha Advanced Systems, Inc.: See—
Friederichs, Josef E.; Friederichs, Edgar E.; and Weg, Leo, 3,655,052.
- Alpha Industries, Inc., mesne: See—
Levi, Clifford A., 3,669,773.
Levi, Clifford A., 3,675,314.
Morgan, Cyril, 3,657,617.
- Alpha Metals, Inc.: See—
Schneider, Alvin F., 3,637,513.
- Alpha Portland Cement Company: See—
Hersey, Arthur Theodore; and Tonry, James Richard, 3,689,295.
- Alpha Press Electronics, Inc.: See—
Gruenwald, Bjorn J., 3,700,973.
- Alpha Products, Inc.: See—
Derkacz, John J., 3,679,844.
- Alpha Smith, to Silver Lining, Inc., mesne. Completion fluid. 3,684,709, 8-15-72, Cl. 252-8.55r.
- Alphamedics Mfg. Corporation: See—
Berman, Richard M.; Schwartz, Bernard; and Bethke, Lyman W., 3,636,549.
- Alphanumeric, Incorporated: See—
- Manber, Solomon, 3,692,935.
- Alphin, John G.; and Fitner, John B., to Clemson University. Tobacco harvesters. 3,695,014, 10-3-72, Cl. 56-27.500.
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- Alpine Chemische Aktiengesellschaft: See—
Hrach, Josef; and Wimmer, Theodor, 3,651,016.
- Alps Electric Co., Ltd.: See—
Iwasaki, Sadayoshi, 3,694,602.
Kasazima, Masao, 3,701,963.
Komatsu, Hiroaki, 3,662,313.
Manabe, Noboru, 3,646,300.
Nomura, Yukihiko, 3,668,597.
Nomura, Yukihiko, 3,676,827.
Ohkita, Masao, 3,681,555.
Ohkita, Masao, 3,697,713.
Ohkita, Masao, 3,699,292.
Oka, Tsumoru, 3,668,345.
Ono, Ichiro, 3,678,421.
Shimizu, Yutaka, 3,693,129.
Yanaga, Makoto, 3,704,356.
- Alpura AG: See—
Loliger, Willi; and Schmied, Rudolf, 3,692,468.
- Alquist, Henry E.: See—
Hitzman, Donald O.; and Alquist, Henry E., 3,642,578.
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Nash, John J., 3,670,621.
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- Alsop, Ranulph Michael; and Bremner, Ian, to Fisons Pharmaceuticals Limited. Pharmaceutical compositions containing ferric hydroxide complexed with dextran or dextrin heptonic acids. 3,639,588, 2-1-72, Cl. 424-180.
- Alstad, John K.; Armitage, John D., Jr.; and Bate, Geoffrey, to International Business Machines Corporation. Magneto-optic transducer. 3,665,431, 5-23-72, Cl. 340-174.1mo.
- Alster, Ralph. Unitary modular shelving structure. 3,661,434, 5-9-72, Cl. 312-111.
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- Alston, Leslie W. L. Drawers for furniture. 3,687,512, 8-29-72, Cl. 312-330.000.
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- Alsop, Michael J.; and Guevara, Alfredo R., to Eastman Kodak Company. Process for preparing high-relief printing plates. 3,647,446, 3-7-72, Cl. 96-35.1.
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- Alt, Anton, to Fischer, Georg, Aktiengesellschaft. Method for the introduction of volatile additives into a melt. 3,666,449, 5-30-72, Cl. 75-130.
- Alt, Bernhard: See—
Eimers, Erich; Deninger, Wolfgang; and Alt, Bernhard, 3,641,203.
- Alt, Gerhard H., to Monsanto Company. Method of combatting chewing insect larvae species of the order lepidoptera using N,N'-dicyclopropyl dithiooxamide. 3,639,627, 2-1-72, Cl. 424-320.
- Alt, Gerhard H., to Monsanto Company. N,N'-dicyclopropyl dithiooxamide. 3,658,900, 4-25-72, Cl. 260-551.
- Alt, Gerhard H., to Monsanto Company. Inhibiting the growth of plants with substituted indole derivatives. 3,671,214, 6-20-72, Cl. 71-95.000.
- Alt, Gerhard H., to Monsanto Company. Phytotoxic compositions. 3,674,459, 7-4-72, Cl. 71-18.000.
- Alt, Gerhard H., to Monsanto Company. N-(3-Halo-5,5-dialkyl-cyclohex-2-en-1-ylidene) morpholinium tetraphenyl borates. 3,699,101, 10-17-72, Cl. 260-247.000.
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- Altetose, Harvey W.: See—
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- Altetous, William C., to Computer Image Corporation. Beam intensity compensator. 3,688,028, 8-29-72, Cl. 178-6.800.
- Altan, Kurt. Sealing device for openings in buildings. 3,683,572, 8-15-72, Cl. 52-173.000.
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- Altenburger, Otto, to Stromberg-Carlson Corporation. Line lockout circuit. 3,699,265, 10-17-72, Cl. 179-19.000.
- Altenburger, Otto, to Stromberg-Carlson Corporation. Passive junction circuit and selectively associated junction control. 3,705,268, 12-5-72, Cl. 179-18.00e.
- Altenpohl, Paul J.: See—
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- Altenpohl, W. F., Inc.: See—
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- Altenpohl, William F.; and Altenpohl, Paul J. Fluid control system for selector scales. 3,680,693, 8-1-72, Cl. 209-75.000.
- Altenschopfer, Theodor: See—
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- Altensadt, Helmut Schmidt Auf, to Vaillant, Joh., KG. Vacuum evaporation type water heater. 3,661,325, 5-9-72, Cl. 237-8.00r.
- Altensadtter, Georg, 1/2 to Lewis, Terry. Apparatus for the vibratory finishing of workpieces. 3,662,496, 5-16-72, Cl. 51-7.
- Alter, Albert R. Breathing activity monitoring and alarm device. 3,658,052, 4-25-72, Cl. 128-2.
- Alter, Henry L.: See—
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- Alter, Henry Ward; and Price, Paul B., to General Electric Company. Radon detection. 3,665,194, 5-23-72, Cl. 250-83.
- Alter, Hobart L., to Coast Catamaran Corporation. Jib sheet apparatus for sailboats. 3,678,876, 7-25-72, Cl. 114-102.000.
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- Altermatt, Ruedi, to Sandoz Ltd.; a/k/a Sandoz A.G. Nitro dyestuffs. 3,637,669, 1-25-72, Cl. 260-239.6.
- Alters, Max F.: See—
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- Alterton, Lloyd E.: See—
Vassiliadis, Arthur; Zweng, Harold C.; Peppers, Norman A.; and Alterton, Lloyd E., 3,703,176.
- Alth, Max. Single-phase motors. 3,670,191, 6-13-72, Cl. 310-163.000.
- Alth, Max. Self-starting synchronous motors. 3,700,942, 10-24-72, Cl. 310-164.000.
- Althaus, Ernst, to Orenstein & Koppel Aktiengesellschaft. Hydraulic chain tensioning device, especially for track laying vehicles. 3,647,270, 3-7-72, Cl. 305-10.
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- Althouse, Victor E., to Raychem Corporation. Heat recoverable article. 3,639,917, 2-8-72, Cl. 2-270.
- Althouse, Victor E., to Raychem Corporation. Method and means of die matrix expansion. 3,677,875, 7-18-72, Cl. 161-117.000.
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- Altier, Anthony L. Archery bow string release tab and draw limiting device. 3,665,911, 5-30-72, Cl. 124-24.
- Altieri, Vincent F.; and Tillotson, James E., to Ocean Spray Cranberries, Inc. Canned apple gel and method of preparing same. 3,692,541, 9-19-72, Cl. 99-132.000.
- Altman, Daniel E.: See—
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- Altman, Daniel E., to United States of America, Navy. Method for determining a ship's heading employing an electro-optical angle measuring device. 3,669,548, 6-13-72, Cl. 356-141.000.
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- Altman, Seymour E.: See—
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- Altmiller, John C.: See—
- Cohen, Edwin; and Altmiller, John C., 3,699,244.
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- Alto Corporation: See—
- Maude, Stanley Morgan, 3,700,129.
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- Alton Box Board Company: See—
- Hayes, William H., 3,635,361.
- Le Blanc, John R., 3,682,762.
- Reisman, Abraham J.; and Wilkinson, Thomas B., III, 3,687,767.
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- Alton, Thomas W., to Pak-Well Corporation. Fan-fold envelope assembly. 3,633,816, 1-11-72, Cl. 229-69.
- Altonen, Wilhelt Nilo, Jr.; and Auer, Fred Vincent, to Motorola, Inc. Shorting device. 3,638,071, 1-25-72, Cl. 317-2.
- Altounyan, Roger Edward, to Fisons Pharmaceuticals Limited. Compositions for treating asthma comprising bis-chromonyl compounds and method of employing same. 3,671,625, 6-20-72, Cl. 424-45.000.
- Altounyan, Roger Edward Collingwood; Howell, Harry; and Rowlands, Martyn Omar, to Fisons Pharmaceuticals Limited. Inhalation device. 3,635,219, 1-18-72, Cl. 128-266.
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- Touval, Irving; and Altwick, Elmar R., 3,678,071.
- Aluma-Form, Inc.: See—
- Farmer, Marion R., 3,653,622.
- Alumet Corporation, The, mesne: See—
- Rheingold, Lawrence M.; and Berlin, Milton, 3,654,023.
- Alumina Ferrite Corporation of America: See—
- Nailen, James C., 3,707,638.
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- Arts, Mathieu Gerardus Henricus; Luckert, Jan Anna Antonius; and Groenenboom, Maarten, 3,674,674.
- Aluminium Suisse SA, mesne: See—
- Picq, Patrice, 3,680,279.
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- Bolt, Alfred V.; and Wood, James S., 3,633,540.
- Bowser, John O., 3,664,079.
- Brondyke, Kenneth J.; and Hess, Paul D., 3,649,247.
- Brondyke, Kenneth J., 3,695,919.
- Brown, Melvin Henry, 3,674,652.
- Brown, Robert H.; Anderson, William A.; and King, William, 3,674,448.
- Diekhoff, Hans H.; and Schrecker, Howard D., 3,659,740.
- Dunn, Lloyd G., 3,653,249.
- Dunn, Lloyd G., 3,654,796.
- Ference, Richard N.; Gega, Albert; Miller, James A.; Stewart, Ray T.; and Stricker, David M., 3,700,101.
- Fish, William M., 3,681,013.
- Gayner, Herbert; and Demsey, John N., Jr., 3,632,461.
- Guilloud, Rudolph L., 3,648,380.
- Haddon, Roger C.; and Kilgore, Colin H., 3,682,122.
- Hoch, Fred R.; and McIntee, James W., 3,693,238.
- Howle, Clement Roger, 3,697,393.
- Hunsicker, Harold Y., 3,663,216.
- Hunsicker, Harold Y., 3,668,019.
- Hunsicker, Harold Y., 3,697,260.
- Kelsey, Ronald A., 3,636,895.
- Klingensmith, James D.; and Merkin, Billie C., 3,633,327.
- Klingensmith, James D., 3,636,668.
- Klingensmith, James D.; and Volinsky, George, Jr., 3,664,080.
- Knepp, James E., 3,688,904.
- Koenig, James J.; and Hart, Leroy D., 3,653,937.
- La Barge, Robert L., 3,677,429.
- La Barge, Robert L., 3,686,795.
- Leftault, Charles J., Jr., 3,631,650.
- Lowe, Richard L., 3,681,229.
- Lyle, John P., Jr.; and Townner, Raymond J., 3,637,441.
- Mac Zura, George; and Pearson, Alan, 3,655,339.
- McKee, Francis G.; and Haddon, Roger C., 3,636,758.
- Merkin, Billie C., 3,631,647.
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- Mills, James B., 3,659,397.
- Parks, Keith W., 3,687,431.
- Patterson, William C., 3,632,453.
- Pearson, Alan; and Marhanka, John E., 3,705,223.
- Ponchel, Basil M., 3,645,804.
- Rawlins, Charles B.; and Collins, Fred R., 3,659,034.
- Sawyer, David W., 3,637,498.
- Sawyer, David W., 3,657,126.
- Schrecker, Howard D., 3,688,718.
- Schrecker, Howard Dale, 3,653,536.
- Sopp, Albert L., Jr., 3,655,467.
- Stemler, Jay R., 3,667,182.
- Terrill, James R.; and Dzieriski, Stanley F., 3,680,200.
- Thompson, Charles B., 3,639,107.
- Urbanic, John M., 3,686,465.
- Wilson, Richard C., 3,703,290.
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- Lee, Richard G.; Schleicher, Allen K.; Panzer, Max L.; and Brock, John E., 3,650,566.
- Aluminum Converter Sales & Research, Inc.: See—
- Graveman, Fred J., 3,650,012.
- Aluminum Specialty Company: See—
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- Aluotto, Dominick M., 3,643,590.
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- Alvarez, Francisco, to Syntex Corporation. (6-Methoxy-2-naphthyl) cadmium halide. 3,694,476, 9-26-72, Cl. 260-429.00.
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- Wernitz, Charles W., 3,643,788.
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- Alwan, Abdul Sahib; and Ruscetta, Ralph Antonio, to General Electric Company. Process of forming aluminum foil. 3,666,642, 5-30-72, Cl. 204-141.000.
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- Dashner, Merwin J.; and Diring, James A., 3,707,251.
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- Higuchi, Takeru; and Hussain, Anwar, 3,676,549.
- Pharriss, Bruce B.; and Anliker, Max, 3,675,647.
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- Weinschenker, Ned M.; and Andersen, Niels H., 3,689,569.
- Zaffaroni, Alejandro, 3,673,213.
- Zaffaroni, Alejandro, 3,699,951.
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- Foerstner, Richard A., 3,702,386.
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- Amass, Allan John: See—
- Duck, Edward William; Locke, John Michael; and Amass, Allan John, 3,703,566.
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- Amato, Richard A., to Electrospin Corporation. Textile machine. 3,665,695, 5-30-72, Cl. 57-58.910.
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- Spink, Donald R.; and Goodrich, Allen C., 3,690,963.
- Amazon Natural Drug Company, The: See—
- Persinos, Georgia J., 3,694,557.
- AMBAC Industries, Incorporated: See—
- Burkhart, Clark B., 3,679,062.
- Feldman, Irwin M., 3,678,765.
- Galis, Leon A.; and Valentin, Donald E., 3,689,200.
- Galis, Leon A.; and Valentine, Donald E., 3,707,144.
- Litman, Bernard; and Silvia, Everett R., 3,698,776.
- Mc Millen, Bobby E., 3,690,188.
- Silvia, Everett R., 3,698,251.
- Wanlass, Cravens L., 3,679,962.
- Wanlass, Cravens L., 3,679,966.
- Weiss, Paul C., 3,677,540.
- Weiss, Paul C., 3,679,098.
- Amberg, Hans-Ulrich, to Siemens Aktiengesellschaft. Input circuit for a signalling system which cyclically scans a plurality of signalling stations under counter control. 3,652,995, 3-28-72, Cl. 340-167.
- Amberg, Ralph G.: See—
- Amberg, Stephen W.; and Amberg, Ralph G., 3,697,369.
- Amberg, Stephen W.; Doherty, Thomas E.; and Fikert, Jacob J., to Owens-Illinois, Inc. Apparatus for forming articles. 3,632,252, 1-4-72, Cl. 18-19.
- Amberg, Stephen W., to Owens-Illinois, Inc., mesne. Two-piece plastic containers having foamed thermoplastic side wall and method of making same. 3,658,615, 4-25-72, Cl. 156-218.

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Sloan, Donald D.; and Amberkar, Suresh D., 3,672,981.
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Wichmann, Arnold; and Amborn, Herbert, 3,631,590.
- Ambrashka, Kasimir; and Bickl, Horst, to Agfa-Gevaert Aktiengesellschaft. Light measuring means for microfilm camera. 3,635,135, 1-18-72, Cl. 95-10.
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- Ambrose, Charles J.: See—
Olsen, Larry C.; Seeman, Stephen E.; Griffin, Bobby I.; and Ambrose, Charles J., 3,706,893.
- Ambrose, Henry B. Fish alarm and circuit continuity tester. 3,696,546, 10-10-72, Cl. 42-17,000.
- Ambrose, Jere B., to Northern Fibre Products Company. Upholstery edge roll. 3,665,880, 5-30-72, Cl. 112-417,000.
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- Ambrose, Jere B., to Northern Fibre Products Company. Decorative seat welt. 3,696,771, 10-10-72, Cl. 112-417,000.
- Ambrose, Michael J.: See—
Meyer, Mitchell I.; and Ambrose, Michael J., 3,707,074.
- Ambrosius, Manfred, to Bremshey & Co. Vehicle seat. 3,705,745, 12-12-72, Cl. 297-308,000.
- Ambrosius, Willem L. B.: See—
Pielkenrood, Jacob; and Ambrosius, Willem L. B., 3,666,111.
- Pielkenrood, Jacob; and Ambrosius, Willem L. B., 3,666,112.
- Ambroz, Miroslav: See—
Plechac, Bohuslav; Ambroz, Miroslav; and Mudrik, Josef, 3,643,339.
- Ambruso, Alex: See—
United States of America, National Aeronautics and Space Administration, 3,693,346.
- Ambruster, Joseph R., to United States Steel Corporation. Safety device for conveying apparatus. 3,633,707, 1-11-72, Cl. 182-139.
- Ambuco Limited: See—
Morris, Aubrey J.; and Fox, James S. W., 3,633,598.
- Morrison, William F.; and Hauser, Henry A., 3,677,715.
- Amburgo Company, Incorporated, The: See—
Yacowitz, Harold, 3,657,423.
- Amburn, Raymond D. Apparatus for magnetically treating seeds. 3,675,367, 7-11-72, Cl. 47-1,300.
- Amchem Products, Inc.: See—
Binns, Robert Eric, 3,695,942.
- Curran, John Patrick, 3,684,588.
- Damiano, John Joseph, 3,672,866.
- Esposito, James Edward, 3,672,863.
- Gardner, George, 3,668,137.
- Goldstick, Robert Jay, 3,671,556.
- Hamilton, Andrew J., 3,635,826.
- Harris, Robert George, 3,677,953.
- Kuehner, Mark A., 3,697,332.
- Leaper, Joseph Michael Faraday; and Raman, Harvey Peter John, 3,703,546.
- Otto, George Freed, 3,660,172.
- Reed, Stuart; and Schiffman, Louis, 3,649,343.
- Schneider, George, 3,647,569.
- Waldrum, John E., 3,642,206.
- Waldrum, John E., 3,648,935.
- Waldrum, John E., 3,653,598.
- Amdahl, Gene M.; Arnold, Richard F.; Dauber, Philip S.; Freiman, Charles V.; Robelen, Russell J.; Schorr, Herbert; and Wierzbicki, John R., to International Business Machines Corporation. Storage control system. 3,670,309, 6-13-72, Cl. 340-172,500.
- Ameling, Bernhard: See—
Thies, Alfred F. B.; Ameling, Bernhard; Reuther, Albert R.; and Fluchter, Werner, 3,670,531.
- Ameling, Bernhard; and Kaup, Siegfried, to Thies, B., Firma. Apparatus for wet treatment of warp-rope or board-shaped textile goods. 3,698,212, 10-17-72, Cl. 68-178,000.
- Amelio, Gilbert Frank; and Smith, George Elwood, to Bell Telephone Laboratories, Incorporated. Storage tube with array on Pn Pn diodes. 3,701,914, 10-31-72, Cl. 313-66,000.
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- Amemiya, Hiroshi: See—
Chen, Vallon Wei-Loong; and Amemiya, Hiroshi, 3,638,039.
- Amemiya, Koitsuro: See—
Oohara, Saburo; Amemiya, Koitsuro; Nishijima, Yasushi; Fukushima, Mitsuyoshi; and Shimizu, Kunio, 3,677,871.
- Amemiya, Kunio: See—
Tsuruta, Motohiro; Kimura, Hiroshi; Koshimo, Akio; Nara, Hirohisa; Goto, Tokuju; Amemiya, Kunio; and Matusaka, Hideki, 3,637,427.
- Amemiya, Toshioki: See—
Masuyama, Takeshi; Matsuura, Mikio; Iida, Yoshio; and Amemiya, Toshioki, 3,642,664.
- Masuyama, Takeshi; Amemiya, Toshioki; and Iida, Yoshio, 3,670,216.
- Amend, Clifford L., to Ajax Magnethermic Corporation. Quenching device. 3,675,908, 7-11-72, Cl. 266-6,00s.
- Amend, William P., to Wean United, Inc. Apparatus for supporting yokes for a rolling mill having roll contour control. 3,702,557, 11-14-72, Cl. 72-238,000.
- Amendola, Norman A.: See—
Choate, Wallace W.; and Amendola, Norman A., 3,664,087.
- Amendolia, Pasquale J. Light indicator. 3,648,521, 3-14-72, Cl. 73-293.
- Ament, Roland W.; and England, Joseph F., to Ralston Purina Company. Method of immunizing cattle against bovine respiratory disease syndrome. 3,634,587, 1-11-72, Cl. 424-89.
- Amerace Esna Corporation: See—
Barnes, Gerald, 3,646,981.
- Brown, Robert R., 3,654,590.
- Flanagan, Robert I., 3,684,985.
- Grimm, David W., 3,670,796.
- Grimm, David W., 3,687,182.
- Malia, Michael W., 3,656,084.
- Nagel, Robert I., 3,660,919.
- Selsor, James Quinn; Turner, Edward Wayne; and Goldberg, Bruce Saul, 3,696,061.
- Amerasia Enterprises, Incorporated: See—
Germann, Werner, 3,659,951.
- Amerel Company Inc.: See—
Brummett, Paul L.; and Isley, Sigmund G., 3,690,478.
- Americal Corporation: See—
Minton, Clarence W., 3,654,778.
- Minton, Clarence W., 3,657,890.
- American Aero Engineering Company: See—
Goss, John B.; and Stachowiak, John E., 3,690,067.
- American A.G. Products Corporation: See—
Tokolics, Joseph; Hughes, Gordon A.; and Smith, Herchel, 3,671,519.
- American Air Filter Company, Inc.: See—
Cole, Saxon, 3,694,625.
- Engleman, Donald E., 3,696,592.
- Everett, Wilhelm Sydow, 3,669,150.
- Gamble, Edward R., 3,702,592.
- Gold, Harold E.; and Smith, Ralph B., 3,698,472.
- Rivers, Richard D.; Byers, Thomas W.; and Fortener, Edward J., 3,677,289.
- Selhost, Dale L., 3,659,432.
- Tennant, Charles E., 3,661,100.
- Timms, Rayford W., 3,641,782.
- Westlin, Karl L.; and Welch, Wilson A., 3,659,719.
- Westlin, Karl L.; and Getzin, Allan R., 3,668,843.
- Zurmuehlen, Robert C., 3,653,531.
- American Allsafe Company, Inc.: See—
Militello, James V., 3,638,240.
- Militello, James V., 3,685,055.
- American Aluminum Company: See—
Farley, Holt A., 3,697,045.
- American Aniline Products, Inc.: See—
Genta, Guido R., 3,635,957.
- Genta, Guido R., 3,697,554.
- American Artists Group, Inc.: See—
Dash, Martin, 3,648,833.
- American Astrionics, Inc.: See—
Caveney, Robert D.; and Harrison, Ronnie M., 3,659,117.
- American Aviation Corporation: See—
Jarvis, Richard L.; and Kully, Walter, 3,669,801.
- Jarvis, Richard L.; and Kully, Walter, 3,669,803.

- Jarvis, Richard L.; and Kully, Walter, 3,669,807.
- American Bank Note Company, mesne: See—
Wicker, Ralph C., 3,675,948.
- American Biltrite Rubber Co., Inc.: See—
Spinney, Arthur F., Jr.; and Wernalis, Lawrence J., 3,661,687.
- American Bioculture, Inc., mesne: See—
Smith, Jack D., 3,657,106.
- American Brands, Inc.: See—
Black, J. Harold; Reed, Edward W.; and Stant, Vernon C., 3,636,363.
- American Can Company: See—
Adams, James William; and Tilloson, August Henry, 3,682,856.
- Bofinger, Karl; and Hake, Walter Thomas, 3,690,997.
- Bolt, Richard Robert; and Wobbe, Delbert Edmond, 3,670,543.
- Brand, John Seemann; and Honeiser, Vladimir Paul, 3,652,332.
- Canamero, Ernest V.; and Ullmann, Christoph, 3,673,760.
- Croasdale, William Herbert; French, Harlan Sumner; Hofschild, Clewell Stephen; and Johnson, Donald Owen, 3,648,741.
- Gerber, Reinhold; Kerrigan, James Edward; and Hawley, Harry Ray, 3,676,543.
- Gillespie, William Stanley, 3,632,274.
- Hake, Walter Thomas; and Stieglitz, Henry Gilbert, 3,676,271.
- Hardy, Paul Wilson; and Peterson, Orrin Martel, 3,689,611.
- Harker, Royce Kenneth; Prickett, Warren Wilson; and Roesch, Kurt Fritz, 3,669,323.
- Hein, Matthew Edward, 3,675,824.
- Hirn, Hans, 3,655,026.
- Hoynes, Benjamin Luke, 3,688,538.
- Huppenthal, George Alfred; and Peeri, Shlomo, 3,707,102.
- Joosten, Richard Leo, Sr., 3,662,944.
- Kaercher, Ralph William; and Peschke, John Ralph, 3,704,804.
- Kawecher, Ralph William; and Platt, John Robert, 3,687,351.
- Kinkel, Christian F., 3,650,006.
- Kinkel, Christian F., 3,701,330.
- Klemm, Carl John; Tietz, Richard August; Street, Terrell Ray; and Blake, Trevor, 3,661,577.
- Kuchenbecker, Morris William, 3,703,383.
- LaCroce, Leonard Thomas, 3,655,091.
- Landauer, LeRoy, 3,658,677.
- Latreille, Maurice Gaston, 3,661,488.
- Lehmann, Karl Friedrich; and Weygant, Robert Miller, 3,680,679.
- Mansolino, Daniel Joseph, 3,648,884.
- Massa, Charles Donald, 3,661,492.
- Meyers, George Leroy, 3,690,544.
- Pavleszek, John; and Zugic, Joseph Paul, 3,680,350.
- Platt, John Robert; and Rohowetz, Stanley Edward, 3,701,453.
- Pobiner, Harvey, 3,646,080.
- Shmerling, Zvi; Kiron, Israel; and Merold, Robert Lee, 3,662,919.
- Thorp, Richard Conrad, 3,701,454.
- Wendricks, Roland Norbert, 3,676,034.
- Young, William E.; and Mahaffy, Reid A., 3,695,900.
- American Chain & Cable Company, Inc.: See—
Drayton, Walker E., 3,633,960.
- Drayton, Walker E., 3,679,175.
- Giles, James, 3,684,073.
- Gilmore, William J., 3,653,277.
- Gilmore, William J., 3,667,206.
- Gilmore, William J., 3,672,142.
- Goldstein, Albert, 3,690,268.
- Klamp, Paul, 3,640,226.
- Lang, Elliot R., 3,657,921.
- Maase, Robert; and Karlstrom, Karl R. M., 3,669,027.
- Oliver, Robert P., 3,683,135.
- Ross, Ivan L., 3,662,873.
- Stokes, Joseph F.; and Van Vessem, George E., 3,676,774.
- American Chain & Cable Company, Inc., mesne: See—
Klamp, Paul, 3,659,530.
- American Chemical & Refining Company Incorporated: See—
Young, George Ralph, Jr., 3,677,929.
- American Chemosol Corporation: See—
Hudson, Perry B., 3,677,269.
- American Clinic, Inc.: See—
Symmes, Paul S., 3,656,760.
- Symmes, Paul S., 3,669,119.
- American Coleman Company: See—
Hanna, Bruce, 3,662,427.
- American Computer Communications Company, Inc.: See—
Lutzker, Lawrence, 3,657,700.
- American Crucible Products Company, The: See—
Rice, Patricia A., 3,683,600.
- American Cutting & Binding Co.: See—
Siegal, Burton L., 3,693,853.
- American Cyanamid Company: See—
Addor, Roger Williams; and Drabb, Thomas Walter, Jr., 3,632,862.
- Addor, Roger Williams; and Wagner, Frank Albert, Jr., 3,632,621.
- Addor, Roger Williams; and Ailman, David Edgar, 3,681,505.
- Addor, Roger Williams; and Wagner, Frank Albert, Jr., 3,694,481.
- Addor, Roger Williams; and Drabb, Thomas Walter, Jr., 3,700,772.
- Addor, Roger Williams; and Ailman, David Edgar, 3,705,211.
- Albright, Jay Donald; and Shepherd, Robert Gordon, 3,652,555.
- Albright, Jay Donald; and Goldman, Leon, 3,673,214.
- Albright, Jay Donald; and Goldman, Leon, 3,706,760.
- Allen, Louis N., 3,634,046.
- Amin, Ashok Babubhai, 3,652,206.
- Asato, Goro; Berkelhammer, Gerald; and Gastrock, William Henry, 3,649,638.
- Asato, Goro; and Berkelhammer, Gerald, 3,654,299.
- Asato, Goro; and Berkelhammer, Gerald, 3,658,832.
- Bach, Frederick Louis; Barclay, John Claire; and Cohen, Elliott, 3,652,590.
- Baitinger, William Frederick, Jr., 3,639,333.
- Bambrick, William Edward, 3,634,332.
- Bann, Robert Francis, 3,666,690.
- Bauer, Victor John; Fanshawe, William Joseph; and Wiegand, Gretchen Ellen, 3,678,062.
- Bauer, Victor John; and Safir, Sidney Robert, 3,681,498.
- Bauer, Victor John; Wiegand, Gretchen Ellen; and Safir, Sidney Robert, 3,703,577.
- Beegle, Lindley Clair, 3,704,057.
- Behrens, Rudolf Adolf, 3,644,304.
- Berenson, Herman; Stonier, Robert Alden; and Wiese, Eugene Everett, 3,697,655.
- Berkelhammer, Gerald; and Gund, Peter Herman, 3,660,401.
- Berkelhammer, Gerald; Asato, Goro; and Moon, Edward Leslie, 3,674,780.
- Blank, Werner Josef; and Koral, Jerry Norman, 3,692,717.
- Bollyky, Laszlo; and Whitman, Robert Henry, 3,644,517.
- Bollyky, Laszlo Joseph, 3,704,231.
- Brabander, Herbert Joseph; and Wright, William Blythe, Jr., 3,706,810.
- Bright, John Harvey, 3,636,022.
- Broisman, Raymond, 3,644,256.
- Brouchu, Rene Robert; and Taylor, Lytton, 3,697,353.
- Brown, James Marvin, 3,679,719.
- Brown, John Johnston; and Hady, Robert Allis, Jr., 3,634,430.
- Brownlee, Thomas Harland; and Matsuda, Ken, 3,683,336.
- Buell, Bennett George, 3,660,125.
- Buell, Bennett George, 3,684,764.
- Bullock, Milon Walker, 3,642,809.
- Bullock, Milon Walker; and Hand, John James, 3,673,206.
- Bullock, Milon Walker, 3,679,696.
- Bullock, Milon Walker, 3,679,725.
- Busch, Claus Wyman, Jr., 3,639,232.
- Butterfield, Boydston Lewis, 3,671,451.
- Calderazzo, Fausto, 3,642,838.
- Callahan, Francis Marc, 3,640,991.
- Callister, John David; and Carlile, Clayton George, 3,642,913.
- Castellion, George Augustus; and Habermann, Joseph Peter, 3,692,688.
- Cate, Alan Clifford; and Gordon, Roy Charles, 3,680,991.
- Child, Ralph Grassing; Svokos, Steve George; and Tomcufcik, Andrew Stephen, 3,642,990.
- Chinai, Suresh N.; and Brigmanis, Edmund, 3,657,408.
- Colgan, Joseph Dennis, 3,671,463.
- Coscia, Anthony Thomas; and Ross, Joseph Hansbro, 3,634,399.
- Coscia, Anthony Thomas; and Williams, Laurence Lyman, 3,658,640.
- Curran, William Vincent; and Goldman, Leon, 3,673,189.
- Curran, William Vincent; Ross, Adma Schneller; and Tomcufcik, Andrew Stephen, 3,689,652.
- Daly, William F.; and Vallancourt, Ronald J., 3,702,605.
- Deichert, William George; and Lemay, Richard Ronald, 3,646,164.
- Di Giaino, Matthew Peter, 3,642,688.
- Di Leone, Roland Ralph, 3,647,920.
- Diehl, Robert Eugene; and Magee, Richard Joseph, 3,700,674.
- DiLeone, Roland Ralph; and Lucas, Howard Robert, 3,634,325.
- Doering, Arthur, 3,637,650.
- Dombroski, Frank P., 3,666,503.
- Doscher, Mary Ehlers, 3,671,631.
- Doscher, Mary Ehlers, 3,691,283.
- Drain, James Joseph, 3,639,595.
- Dundon, John Peter, 3,705,822.
- Economou, Peter, 3,637,564.
- Economou, Peter, 3,677,888.
- Economou, Peter, 3,660,338.
- Ellenbogen, Leon; and Kelly, Robert Gerard, 3,646,121.
- Ermidis, Nicholas Peter, 3,697,620.
- Evans, Ralph Henry, Jr.; and Holmlund, Chester Eric, 3,701,787.
- Farley, Charles Edward, 3,661,699.
- Farley, Charles Edward, 3,705,216.
- Feldman, Martin Louis; and Gordon, John Edson, 3,679,713.

- Fessler, Robert Glenn; and Tredinnick, Bruce Charles, 3,635,970.
 Fine, Leonard Wolfe; Matsuda, Ken; and Photis, James Mitchell, 3,699,164.
 Firth, William Charles, Jr.; and Frank, Simon, 3,699,094.
 Fraioli, Anthony Vincent; and Mohns, John Phillip, 3,644,145.
 Furman, Frank Meritt, 3,673,249.
 Gallacher, Lawrence Vincent, 3,675,391.
 Gastrock, William Henry, 3,634,447.
 Giambalvo, Vito Albert; and Ruby, Philip Randolph, 3,697,464.
 Gieseke, Elmer William; and Howald, Frank Peterson, 3,640,862.
 Gillham, Helen Currier; Sherr, Allan Ellis; and Klein, Harvey Gerald, 3,654,342.
 Gordon, Fred Morris, 3,651,225.
 Gordon, John Edson; and Feldman, Martin Louis, 3,686,233.
 Goulondris, George Constantine, 3,654,297.
 Gray, William David; and Rauh, Charles Edward, 3,665,075.
 Grayson, Martin, 3,687,803.
 Grayson, Martin; and Keough, Patricia Tarpey, 3,689,601.
 Groszklos, Rill Lewis, 3,668,252.
 Haacke, Gottfried C.; and Beegle, Lindley Clair, 3,700,499.
 Hansen, Lloyd Frank, 3,653,380.
 Harvey, Ernest Albert; and Russ, James Frederick, 3,668,261.
 Hauser, Martin; and Sprague, George Sidney, 3,632,632.
 Hauser, Martin; and Hoinacki, Christine Elizabeth, 3,655,622.
 Hercher, Michael; and Madalo, Michael, 3,662,181.
 Hermann, David Trimble; and Remley, Kenneth Herald, 3,640,924.
 Hinz, Charles Frank, 3,705,250.
 Holland, William Dean; Schmitt, Joseph Michael; and Griffith, Richard McDonald, 3,641,197.
 House, Ronald Raymond, 3,655,431.
 Howell, Charles Frederick; and Greenblatt, Eugene Newton, 3,660,406.
 Howell, Charles Frederick; Hardy, Robert Allis Jr.; and Quinones, Nicanor Quinones, 3,663,696.
 Howell, Charles Frederick; Hardy, Robert Allis, Jr.; and Quinones, Nicanor Quinones, 3,681,357.
 Howell, Charles Frederick; and Greenblatt, Eugene Newton, 3,705,245.
 Hyman, Daniel, 3,632,638.
 Innes, John Edwin, 3,639,481.
 Joseph, Joseph Peter; Dusza, John Paul; and Bernstein, Seymour, 3,678,029.
 Kacmpfen, Henry Xavier, 3,653,943.
 Kazan, John, Jr., 3,649,696.
 Kelly, Robert Gerard; and Ellenbogen, Leon, 3,651,236.
 Kemp, Gordon Arthur; Bachmann, Howard John; Berkelhammer, Gerald; and Asato, Goro, 3,655,890.
 Kinstler, Robert Chalk, 3,658,808.
 Klingsberg, Erwin, 3,636,048.
 Klingsberg, Erwin, 3,651,154.
 Koral, Jerry Norman; and Petschel, Michael, Jr., 3,661,819.
 Koral, Jerry Norman; and Blank, Werner Joseph, 3,663,389.
 Kulick, Russell Joseph; and Strazdins, Edward, 3,666,512.
 Kunstmann, Martin Paul; and Porter, John Norman, 3,700,768.
 Lamb, Glentworth, 3,632,770.
 Lamb, Glentworth, 3,652,772.
 Landi, Henry Patrick, 3,704,171.
 Ledden, Howard Patrick; and Muller, Klaus, 3,707,523.
 Levy, Stephen David; and Wayne, Richard Steven, 3,705,895.
 Lewis, Armand Francis; and Elder, Gerald Brent, 3,649,430.
 Lewis, Benjamin Arthur; Sassiver, Martin Leon; and Shepherd, Robert Gordon, 3,641,015.
 Littell, Ruddy; and Allen, George Rodger, Jr., 3,634,420.
 Los, Marinus, 3,644,503.
 Los, Marinus, 3,647,821.
 Los, Marinus, 3,660,490.
 Los, Marinus, 3,671,573.
 Los, Marinus, 3,681,407.
 Lucas, Howard Robert, 3,655,606.
 Lutz, Albert William, 3,635,977.
 Lutz, Albert William; and Feeny, Richard William, 3,669,970.
 Madalo, Michael; and Marlow, William H., 3,661,258.
 Magee, Richard Joseph, 3,634,425.
 Magee, Richard Joseph; and Lovell, James Byron, 3,644,621.
 Maricle, Donald Leonard; and Rauhut, Michael McKay, 3,654,525.
 Martin, John Henry Edward James; and Porter, John Norman, 3,700,769.
 Maske, Bobby Charles, 3,664,952.
 Maulding, Donald Roy, 3,677,957.
 Maulding, Donald Roy, 3,697,432.
 Maulding, Donald Roy, 3,704,309.
 McCormick, Jerry Robert Daniel; and Arnold, Nancy Hazlett, 3,634,500.
 McCormick, Jerry Robert Daniel; and Arnold, Nancy Hazlett, 3,636,081.
 McCormick, Jerry Robert Daniel; and Arnold, Nancy Hazlett, 3,636,063.
 McCoy, Mary Eloise; and Redin, Gunnar Sigurd, 3,706,833.
 McCusker, Edward Joseph, 3,649,163.
 McGahren, William James; Porter, John Norman; and Korshalla, Joseph Daniel, 3,647,776.
 Mecco, Jerry Michael, 3,707,351.
 Millionis, Jerry Peter; and Furman, Frank Meritt, 3,632,858.
 Millionis, Jerry Peter, 3,649,695.
 Miller, Bernard; and Margulies, Howard, 3,636,205.
 Miller, Bernard; and Margulies, Howard, 3,644,601.
 Miller, Mary Lucy, 3,663,288.
 Miller, Philip Andrew; and Trown, Patrick Willoughby, 3,701,774.
 Miller, Phillip; and Montgomery, Carroll Sherman, 3,686,203.
 Mohan, Arthur Gaudens; and Madison, Richard Keith, 3,658,823.
 Morlock, Elizabeth Benz; Albright, Jay Donald; and Goldman, Leon, 3,646,060.
 Morlock, Elizabeth Benz; and Goldman, Leon, 3,673,177.
 Morlock, Elizabeth Benz; Albright, Jay Donald; and Goldman, Leon, 3,673,194.
 Mosby, William Lindsay, 3,658,844.
 Mosby, William Lindsay, 3,691,201.
 Murfitt, Donald; and Peeso, James Bruce, Jr., 3,687,413.
 Murray, Robert William; and Hoffman, Joseph Adrian, 3,636,023.
 Murray, Robert William; and Savides, Christos, 3,649,591.
 Murray, Robert William; and Savides, Christos, 3,663,502.
 Murray, Robert William, 3,699,077.
 Murray, Robert William, 3,700,626.
 Nadolski, Francis Joseph, 3,705,045.
 Nagy, Daniel Elmer, 3,697,370.
 Nakajima, Akira; and Suzuki, Hiroshi, 3,697,218.
 Nakanome, Iyoiko; Takeya, Kenji; and Suzuki, Hiroshi, 3,632,543.
 Nau, Harold Henry, 3,666,523.
 Newman, Howard; and Angier, Robert Bruce, 3,637,764.
 O'Bara, Edward John, 3,681,467.
 Padmanathan, Thuraiarah, 3,661,907.
 Padmanathan, Thuraiarah, 3,669,985.
 Padmanathan, Thuraiarah, 3,687,972.
 Pai, Venkatrao Krishnaraya; and Hyman, Daniel, 3,663,613.
 Palmer, Lucille Elma, 3,634,368.
 Palmer, Lucille Elma, 3,692,893.
 Pang, Michael, 3,637,476.
 Pang, Michael, 3,697,400.
 Panzer, Hans Peter, 3,666,705.
 Papaioannou, Christos George, 3,673,208.
 Papaioannou, Christos George, 3,682,942.
 Papaioannou, Christos George, 3,694,452.
 Papaioannou, Christos George, 3,705,171.
 Paul, Albert Peter, 3,658,454.
 Peeso, James B., Jr., 3,632,541.
 Pietsch, Gerhard Joseph; and Lewis, Armand Francis, 3,644,569.
 Poletto, John Frank; Allen, George Rodger, Jr.; and Weiss, Martin Joseph, 3,646,053.
 Poletto, John Frank; Allen, George Rodger, Jr.; Littell, Ruddy; and Weiss, Martin Joseph, 3,686,213.
 Rauch, Francis Clyde; Murray, Michael Albert; and O'Lenick, Richard Vincent, 3,644,142.
 Rauch, Francis Clyde; and Nachtigall, Guenter Willi, 3,673,250.
 Rauhut, Michael McKay; and Semsel, Andrew Milo, 3,671,450.
 Remers, William Alan; and Weiss, Martin Joseph, 3,652,585.
 Remers, William Alan; and Weiss, Martin Joseph, 3,652,592.
 Remers, William Alan; and Weiss, Martin Joseph, 3,654,303.
 Remers, William Alan; Gibbs, Gabriel Joseph; and Weiss, Martin Joseph, 3,700,684.
 Richter, Ferdinand Joseph, 3,653,499.
 Roberts, Bernard; and Rauhut, Michael McKay, 3,691,085.
 Rodgers, John Leo, 3,641,213.
 Ross, Lawrence James; and Van Cor, Frederick Boyd, 3,649,686.
 Roth, Philip B., 3,658,580.
 Roth, Roy William; and Friedman, Edward, 3,633,578.
 Safir, Sidney Robert; and Greenblatt, Eugene Newton, 3,636,224.
 Schaefer, Frederic Charles; and Noland, James Sterling, 3,660,316.
 Schaefer, Frederic Charles, 3,670,022.
 Schmidt, Richard Frederick; and Pellon, Joseph Jacinto, 3,660,351.
 Schmitt, Joseph Michael; and Deeley, Charles William, 3,632,676.
 Schmitt, Joseph Michael; Sherry, Jeffrey Rufus; and Robustelli, Albert George, 3,700,754.
 Schneller, John, III; and Todd, Teruko I., 3,632,626.
 Schoenbrunn, Erwin Frederick; and Sinha, Vinod Tarkeshwar, 3,674,848.

- Schoenbrunn, Erwin Frederick, 3,679,745.
 Shah, Girish Chandulal; and Shroff, Mahesh Shantilal, 3,679,614.
 Shaw, Robert Frank, 3,663,813.
 Sheehan, Desmond, 3,637,784.
 Sheehan, Gerard Martin, 3,640,743.
 Sheehan, Gerard Martin; Roberts, George Leathwhite, Jr.; and Dupree, Paul Montgomery, 3,658,566.
 Shepherd, Robert Gordon; and Albright, Jay Donald, 3,660,419.
 Sheth, Prabhakar Ranchhordas; and Wiley, James Henry, 3,671,633.
 Shimoda, Keitaro; and Obama, Isamu, 3,698,994.
 Siegele, Frederick Herman, 3,706,717.
 Sieger, George Madison; Krueger, James Elwood; and Barringer, William Charles, 3,642,991.
 Singh, Balwant, 3,634,085.
 Singh, Balwant, 3,699,130.
 Skrivan, Joseph Francis, 3,679,363.
 Smith, Terry Edward, 3,655,830.
 Song, John; Hoffman, Joseph Adrian; and Susi, Peter Vincent, 3,649,667.
 Song, John, 3,660,352.
 Song, John, 3,676,449.
 Song, John, 3,704,326.
 Spalding, Richard Elliot Thornton, 3,639,149.
 Spicer, Larry Dean; and Hand, John James, 3,673,205.
 Stamm, Robert Franz; Brinen, Jacob Solomon; Tennant, Evalyn Hosterman; and Halverson, Frederick, 3,635,544.
 Starer, Ira; and Papaioannou, Christos George, 3,649,639.
 Stockel, Richard Frederick; Herbes, William Frank; and O'Brien, Samuel James, 3,644,083.
 Stockel, Richard Frederick; and Herbes, William Frank, 3,704,325.
 Story, Richard-Neil; and Bundegaard, Howard, 3,676,540.
 Stretanski, Joseph Anthony, 3,657,183.
 Sufferin, Donald Bruce Borders; Osterberg, Arnold Curtis; and Wallo, Kenneth George, 3,706,835.
 Sullivan, Frank Aloysius Vincent; and Dejneka, Tamara, 3,634,313.
 Susi, Peter Vincent, 3,637,769.
 Susi, Peter Vincent; and Weston, Norma Ann, 3,670,025.
 Sutherland, Judith E., 3,632,387.
 Sutter, David Lord, 3,642,752.
 Svokos, Steve George; and Angier, Robert Bruce, 3,673,172.
 Szumski, Stephen Aloysius; and McCoy, Donald Walter, 3,678,150.
 Takacs, Edward Andrew, 3,700,746.
 Takacs, Edward Andrew, 3,700,747.
 Takeya, Kenji; Okazaki, Mitsutoshi; and Kobashi, Toshiyuki, 3,663,631.
 Takeya, Kenji; Okazaki, Mitsutoshi; and Kobashi, Toshiyuki, 3,663,632.
 Taylor, Arthur Sinclair; Sandhage, Ellsworth; Bott, George; and Konazewski, William, 3,698,450.
 Terenzi, Joseph Francis, 3,700,546.
 Terenzi, Joseph Francis, 3,700,622.
 Torley, Robert Edward; and Bankert, Richard Dale, 3,699,028.
 Tsu, Kin Hsueh-Yuan, 3,634,494.
 Tsu, Kin Hsueh-Yuan, 3,652,654.
 Voorhies, John Davidson; and Nichols, Mary Ellen, 3,634,138.
 Wang, Rong; and Zielonka, Jacob Michael, 3,649,178.
 Warren, Charles W.; and Izdebski, Richard J., 3,650,400.
 Weinberg, Norman Louis, 3,679,534.
 Weissbein, Leonard; and O'Brien, Samuel James, 3,679,351.
 Welcher, Richard Parke, 3,644,463.
 Welcher, Richard Parke, 3,649,221.
 Weyker, Robert George; and Mina, George Louis, 3,650,819.
 Weyker, Robert George; Baitinger, William Frederick, Jr.; and De Marco, John Gregory, 3,669,609.
 Wiedeman, Oscar Fontaine; Saunders, Kenneth Worden; and O'Connor, Michael Niall, 3,695,833.
 Wiegand, Gretchen Ellen; Bauer, Victor John; and Safir, Sidney Robert, 3,705,157.
 Williams, Laurence Lyman, 3,640,936.
 Wilson, Barrie Alexander, 3,698,853.
 Witheford, John Maurice, 3,663,375.
 Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, 3,641,029.
 Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, 3,646,047.
 Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, 3,646,048.
 Wystrach, Vernon Paul; and Rauch, Francis Clyde, 3,634,146.
 Zonis, Meyer Louis; Shah, Girish Chandulal; Saunders, Kenneth Worden; and O'Connor, Michael Niall Desmond, 3,634,944.
 Zweig, Arnold, 3,671,239.
 American Data Systems, Inc.: See—
 Macy, James R., 3,697,947.
 Stuck, Carl G.; and Wilkes, Arthur L., 3,701,856.
 Wade, Fred B., 3,666,890.
 American Desk Manufacturing Company: See—
 Chisholm, William A., 3,669,496.
 American Digital Corporation: See—
 Bagland, Evan L., III; and Wagner, Robert L., 3,696,739.
 American Dish Service of Kansas City, Missouri, Inc.: See—
 Tuthill, John B., 3,645,421.
 American District Telegraph Company: See—
 Vassil, Theo N.; and Pearson, Howard, 3,634,839.
 American Electric Manufacturing Corporation: See—
 Starr, George N., 3,652,047.
 Starr, George N., 3,654,451.
 American Electronic Laboratories, Inc.: See—
 Batzdorff, Alfred, 3,633,211.
 Edson, William A., 3,693,115.
 Klopach, Robert T.; and Bohar, Joseph, 3,656,166.
 Slavin, Martin J., 3,659,052.
 American Engineering Company Limited: See—
 Donche-Gay, Pierre, 3,690,349.
 American Enka Corporation: See—
 Appeldoorn, Jacques W. J.; and Sluifsters, Robert, 3,701,619.
 Fontijn, Wilhelmus J.; and van Drunen, Korstiaan J. M., 3,641,232.
 Mertens, Johan J., 3,636,600.
 American Export Isbrandtsen Lines, Inc.: See—
 Dluhy, Herbert, 3,675,795.
 American Express Investment Management Company: See—
 Macovski, Albert, 3,641,264.
 American Filtrona Corporation: See—
 Berger, Richard M.; and Brooks, Elwin W., 3,637,447.
 Berger, Richard M.; and Brooks, Elwin W., 3,648,711.
 Berger, Richard M.; and Sproull, Reavis C., 3,658,626.
 American Filtrona Corporation, mesne: See—
 Berger, Richard M.; and Brooks, Elwin W., 3,703,429.
 Davenport, Francis Robert, 3,690,326.
 American Flange & Manufacturing Co., Inc.: See—
 Gluchowski, Alan, 3,683,482.
 Laurizio, Jeremiah, 3,684,125.
 Sharbon, Jack Z., 3,707,217.
 American Gage & Machine Company: See—
 Lulay, John R.; Marusz, Bruno J.; and Mateja, Edward J., 3,705,721.
 Peonski, Edward, 3,704,557.
 American Gas Association, mesne: See—
 Granryd, Eric G. U., 3,677,026.
 Granryd, Eric G. U., 3,677,027.
 American Hoechst Corporation: See—
 Eichel, Hermann J.; Hickey, Kenneth R.; and Springman, Frank R., 3,663,690.
 Meyer, Ronald J.; Horsley, Orville E.; and Eichel, Herman J., 3,663,703.
 Meyer, Ronald J.; Horsley, Orville E.; and Eichel, Herman J., 3,676,559.
 Meyer, Ronald J.; Horsley, Orville E.; and Eichel, Herman J., 3,692,914.
 American Hoist & Derrick Company: See—
 Boone, Melvin H., 3,656,419.
 Brown, Archer W., 3,651,905.
 Brown, Archer W.; Montgomery, James L.; Wienke, Charles W.; Roskowsinski, Alfons; and Braddock, William A., 3,658,189.
 Crook, Edward J., Jr., 3,653,102.
 Crook, Edward J., Jr., 3,674,301.
 Preu, Hans L., 3,704,534.
 Rear, Melvin K.; and Greivell, Robert L., 3,680,919.
 Wienke, Charles W., 3,641,876.
 American Home Products Corporation: See—
 Adams, Arthur C., 3,637,665.
 Alburn, Harvey E.; and Greenspan, George, 3,632,782.
 Alburn, Harvey E.; Dvonch, William; and Grant, Norman H., 3,652,609.
 Alburn, Harvey E.; and Dvonch, William, 3,655,725.
 Alburn, Harvey E.; Clark, Donald E.; Grant, Norman H.; and Lapidus, Milton, 3,703,542.
 Alburn, Harvey E.; Clark, Donald E.; Grant, Norman H.; and Lapidus, Milton, 3,703,543.
 Begany, Albert J.; Ledig, Kurt W.; Oliver, Donald W.; and Wendt, Gerhard R., 3,642,842.
 Bell, Stanley C., 3,652,634.
 Bell, Stanley C.; and Wei, Peter H. L., 3,686,210.
 Bell, Stanley C.; and Conklin, George T., 3,707,468.
 Bernhart, Finn W., 3,649,295.
 Bogash, Richard; Wolf, Milton; and Sellstedt, John H., 3,669,980.
 Bright, Royal E.; Rees, Richard W.; and Smith, Herchel, 3,661,992.
 Buzby, George C., Jr.; and Smith, Herchel, 3,646,076.
 Buzby, George C., Jr.; Walk, Charles R.; and Smith, Herchel, 3,686,317.
 Buzby, George C., Jr.; Greenspan, George; and Buhle, Emmett L., 3,697,379.
 Childress, Scott J.; and Szabo, J. Lester, 3,641,114.
 Corey, Garland G.; and Weinstein, Bernard, 3,661,789.

- Corey, Garland G.; and Weinstein, Bernard, 3,671,439.
 Deist, Robert P., 3,669,978.
 Diebold, James L.; and Wolf, Milton, 3,649,632.
 Dobson, Thomas A., 3,649,651.
 Douglas, George H.; Teller, Daniel M.; and Smith, Herchel, 3,644,440.
 Dvovich, William; and Alburn, Harvey E., 3,704,297.
 Failli, Amedeo; and Gotz, Manfred, 3,707,472.
 Feed, Meier E.; Bell, Stanley C.; and Wei, Peter H. L., 3,660,430.
 Freed, Meier E.; and Hertz, Elisabeth, 3,641,030.
 Gomez, Eloy A.; Goodsir, Stephen W.; and Marrocco, Dominic A., 3,636,950.
 Hou, Joseph P.; and Poole, John W., 3,704,290.
 Humber, Leslie G., 3,697,581.
 Hussain, Anwar A., 3,681,495.
 Jacobs, Donald R., 3,697,033.
 Kim, Dong H.; and Santilli, Arthur A., 3,635,975.
 Kim, Dong H.; and Santilli, Arthur A., 3,641,028.
 Kim, Dong H.; and Santilli, Arthur A., 3,649,641.
 Kim, Dong H.; and Santilli, Arthur A., 3,654,204.
 Kim, Dong H.; and Santilli, Arthur A., 3,654,205.
 Kim, Dong H.; and Santilli, Arthur A., 3,703,516.
 Kim, Dong H.; and Santilli, Arthur A., 3,703,517.
 Kruger, Gunther, 3,637,667.
 Lefebvre, Yvon, 3,657,226.
 Lelyk, William; and Stepanek, Frank E., 3,680,731.
 Levin, Howard J.; and Kreider, Franklin M., 3,670,786.
 Marshall, David J., 3,634,404.
 Marshall, David J.; and Givner, Morris L., 3,705,179.
 McCaully, Ronald J., 3,678,043.
 McCaully, Ronald J.; and Bell, Stanley C., 3,632,644.
 McCaully, Ronald J.; and Bell, Stanley C., 3,652,548.
 McCaully, Ronald J.; and Gochman, Carl, 3,661,925.
 McCaully, Ronald J.; and Conklin, George L., 3,663,605.
 McCaully, Ronald J., 3,678,032.
 McCaully, Ronald J.; and Conklin, George L., 3,689,557.
 McCaully, Ronald J.; and Bell, Stanley C., 3,691,235.
 Meierhoefer, Eugene J., 3,662,930.
 Mukai, Cromwell D.; and Steckhahn, Frank L., 3,658,711.
 Poole, John W., 3,634,584.
 Potoski, John R.; and Freed, Meier E., 3,632,581.
 Potoski, John R.; and Freed, Meier E., 3,635,982.
 Potoski, John R.; and Freed, Meier E., 3,647,790.
 Potoski, John R.; and Freed, Meier E., 3,692,791.
 Rees, Richard W.; and Russell, Peter B., 3,637,688.
 Robinson, Charles A., 3,654,266.
 Robinson, Charles A., 3,678,037.
 Rosenthal, Marvin E.; and Lapidus, Milton, 3,644,638.
 Rubin, Leon R.; and Meyerhoff, Arthur E., Jr., 3,661,605.
 Russell, Peter B.; Fletcher, Horace, III; and Alburn, Harvey E., 3,704,312.
 Sallay, Stephen I.; and Childress, Scott J., 3,634,434.
 Santilli, Arthur A.; and Kim, Dong H., 3,635,965.
 Santilli, Arthur A.; and Kim, Dong H., 3,641,027.
 Santilli, Arthur A.; and Kim, Dong H., 3,644,351.
 Santilli, Arthur A.; and Kim, Havertown Dong H., 3,704,242.
 Sellstedt, John H.; and Childress, Scott J., 3,641,000.
 Shah, Harshavadan C.; Buzby, George C., Jr.; and Smith, Herchel, 3,689,512.
 Smith, Herchel; and Herbst, David R., 3,644,425.
 Stein, Reinhardt P.; and Smith, Herchel, 3,634,468.
 Stein, Reinhardt P.; and Smith, Herchel, 3,644,437.
 Stein, Reinhardt P.; Smith, Robert C., Jr.; and Smith, Herchel, 3,647,784.
 Stein, Reinhardt P.; and Smith, Herchel, 3,649,621.
 Stein, Reinhardt P.; and Smith, Herchel, 3,704,253.
 Sulkowski, Theodore S.; and Mascitti, Albert A., 3,647,865.
 Sulkowski, Theodore S.; and Mascitti, Albert A., 3,649,640.
 Sulkowski, Theodore S.; and Childress, Scott J., 3,657,221.
 Sulkowski, Theodore S., 3,657,240.
 Sulkowski, Theodore S., 3,663,532.
 Watson, Edward J.; and LaBar, Dale H., 3,671,589.
 Wei, Peter H. L.; and Bell, Stanley C., 3,632,636.
 Wei, Peter H. L.; and Bell, Stanley C., 3,637,746.
 Wei, Peter H. L.; and Bell, Stanley C., 3,644,401.
 Wei, Peter H. L., 3,694,450.
 Wei, Peter H. L.; and Bell, Stanley C., 3,704,239.
 Wei, Peter H. L.; and McCaully, Ronald J., 3,704,240.
 Wei, Peter H. L., 3,704,303.
 Wei, Peter H. L.; and Bell, Stanley C., 3,704,304.
 Wendt, Gerhard R.; Ledig, Kurt W.; and Teller, Daniel M., 3,644,436.
 Wendt, Gerhard R.; and Oliver, Donald W., 3,707,479.
 Wolf, Milton, 3,632,579.
 Wolf, Milton; and Sellstedt, John H., 3,635,953.
 Wolf, Milton; and Diebold, James L., 3,637,706.
 Wolf, Milton; and Diebold, James L., 3,647,800.
 Wolf, Milton; Diebold, James L.; and Bell, Stanley C., 3,652,547.
 Wolf, Milton; and Diebold, James L., 3,657,233.
 Wolf, Milton; and Diebold, James L., 3,674,790.
 Wolf, Milton; and Diebold, James L., 3,691,168.
 Wolf, Milton; Diebold, James L.; and Bell, Stanley C., 3,704,291.
 Wolfe, Milton; Diebold, James L.; Russell, Peter B.; and Bell, Stanley C., 3,704,292.
 Yardley, John P.; and Smith, Herchel, 3,637,744.
 Yardley, John P.; Bright, Royal E.; Rees, Richard W.; and Smith, Herchel, 3,663,552.
 Zilliken, Frederick William; and Egge, Heinz, 3,676,472.
 American Hospital Supply Corporation: See—
 Beich, Frank R.; and Beall, Glenn L., 3,661,152.
 Blake, Lawrence W.; Bett, Bruce D.; and Lieber, Clement E., 3,634,924.
 Bollinger, Howard N.; and Inglis, Leslie R., 3,636,586.
 Breitkopf, Stephen H.; and Scaduto, Michael, 3,699,591.
 Cislser, Earl J.; and Gelbuda, William A., 3,638,584.
 Dabolt, Laurence L., 3,662,759.
 Fulton, Bertram A.; and Slouka, Richard A., 3,693,258.
 Lanigan, Richard W., 3,686,696.
 Lelugas, Joseph J.; and Likken, Gene B., 3,638,935.
 Lelugas, Joseph J., 3,655,179.
 Litvinoff, James R.; and Evans, David F., 3,698,327.
 McPhee, Charles J., 3,677,248.
 Mueller, Floyd F., 3,697,846.
 Olsen, Robert A., 3,698,673.
 Olsen, Robert A., 3,698,765.
 Reiterman, Donald R., 3,670,727.
 Trentelman, Elmer F., 3,692,491.
 American Hydrocarbon Company: See—
 Proell, Wayne A., 3,679,486.
 Selin, Clifford E.; Lyon, Lloyd B.; Holbrook, Stanford T.; and Hammond, Francis H., 3,702,340.
 American Hydrotherm Corporation: See—
 Teller, William M., 3,701,473.
 American Imagination Corporation: See—
 Caillouet, James J., 3,640,453.
 American International Corporation: See—
 Patterson, Le Roy, 3,683,425.
 American Kitchen Foods, Inc., mesne: See—
 Raye, George W.; Dumas, Henry J., Jr.; and Duncan, Lloyd N., 3,664,397.
 American Lava Corporation: See—
 Bailey, Joseph T., 3,637,406.
 Davis, M. Paul; and Theobald, Paul R., 3,664,868.
 Harrison, Henry F., 3,661,635.
 Lynch, James E., 3,641,401.
 American Lava Corporation, mesne: See—
 Hargis, Billy M., 3,681,513.
 American Limnetics Instruments, Inc.: See—
 Arrington, James R.; and King, Karl Lewis, 3,696,019.
 American Linen Supply Co., mesne: See—
 Rosenfeld, Howard; and Wetzler, Justin J., 3,686,899.
 American Machine & Foundry Company: See—
 Picek, Charles Richard; and van Hoek, Cornelis, 3,699,007.
 Quarenghi, Rodolfo, 3,690,328.
 American Magnesium Company: See—
 Wheeler, Roger M.; and Love, Frank E., 3,661,738.
 American Maize-Products Company: See—
 Campbell, Charles S., 3,655,443.
 Hullinger, Clifford H.; Cohen, Lawrence; and Yui, Nooyuki Henry, 3,640,842.
 American Massage Sales and Manufacturing Corporation: See—
 Oettinger, Norman, 3,678,923.
 American Metal Climax, Inc.: See—
 Barry, Henry F.; Hallada, Calvin J.; and McConnell, Robert W., 3,656,888.
 Barry, Henry F.; Hallada, Calvin J.; and Baker, Jerry D., 3,658,464.
 Biebuyck, Lawrence F., 3,680,901.
 Burk, Snell G., 3,680,681.
 Cosman, Cornelius M.; and Buker, Donald O., 3,699,213.
 Farr, John Peter George; and Rowe, Geoffrey Whaley, 3,703,449.
 Hemminger, James W., 3,690,079.
 Hoffmann, James E.; and Ernst, Runyon G., 3,658,510.
 Larson, Melvin L., 3,691,073.
 McKinney, John S., 3,703,062.
 Purdy, Richard A.; and Rutledge, Thomas F., 3,680,684.
 Taubenlat, Pierre W., 3,652,261.
 American Micro-Systems, Inc.: See—
 Borden, Howard C., Jr., 3,702,723.
 McPhail, James H., 3,702,967.
 Richard, Donald F., 3,663,921.
 Thompson, Andrew V.; and Herline, Richard F., 3,651,334.
 American Micro-Systems, Inc., mesne: See—
 Myers, William N., Jr., 3,674,917.
 American Molded Products, Ltd.: See—
 Duckett, John W.; Brooks, Edward A.; and Reynolds, Clarke, 3,705,566.
 American Monitor Corporation: See—

- Denney, Jerry W.; and Denney, Larry W., 3,652,222.
 American Motors Corporation: See—
 Gavagan, James A., 3,631,740.
 Marshall, Charles J., 3,650,256.
 American Multi-Lert Corporation: See—
 Scoville, Andrew E., 3,674,950.
 American National Red Cross: See—
 Johnson, Alan J.; Newman, Jack; and Karparkin, Margaret Howell, 3,652,530.
 American Newspaper Publishers Association Research Institute, Incorporated: See—
 Hart, Charles H.; and Cashau, George R., 3,638,936.
 American Novawood Corporation, The: See—
 Barrett, Lawrence G., 3,645,231.
 Barrett, Lawrence G., 3,654,877.
 American Nucleonics Corporation: See—
 Ghose, Rabindra N.; and Sauter, Walter A., 3,699,444.
 Mardon, Austin; and Nielsen, Robert N., Jr., 3,670,328.
 Martin, David R.; and Sauter, Walter A., 3,648,176.
 American Olean Tile Company, Inc.: See—
 Schweiker, Malcolm A.; and Watson, Wayne C., 3,631,632.
 American Olean Tile Company, Inc., mesne: See—
 Ray, Glenn E., 3,686,703.
 American Optical Corporation: See—
 Beguin, Fred P., 3,644,939.
 Berkovits, Barouh V., 3,635,224.
 Berkovits, Barouh V., 3,661,158.
 Berkovits, Barouh V., 3,674,015.
 Berkovits, Barouh V., 3,693,627.
 Berkovits, Barouh V., 3,698,398.
 Bole, Hamilton B., 3,663,983.
 Bredemeier, Herbert C., 3,659,613.
 Coates, Vincent J.; and Welter, Leonard M., 3,678,333.
 Cooper, Alfred R.; and Young, Charles Gilbert, 3,646,472.
 Crandon, Harry D.; and Le Boeuf, Albert R., 3,700,487.
 Cuff, David W.; and De Baryshe, Paul G., 3,660,779.
 Day, Christopher C., 3,634,761.
 Day, Christopher C., 3,677,261.
 Day, Christopher C., 3,678,296.
 Day, Christopher C., 3,678,491.
 Day, Christopher C., 3,690,143.
 Daynard, Richard F., 3,651,799.
 De Pratti, Norman P., 3,646,395.
 Deeg, Emil W.; and Graf, Robert E., 3,674,530.
 Deeg, Emil W.; and Young, Robert W., 3,694,179.
 Dianetti, Joseph C., 3,693,416.
 Dixon, Edgar O., 3,652,951.
 Gibney, Lloyd W., 3,664,789.
 Goldberg, Herbert E., 3,674,018.
 Grolman, Bernard, 3,639,042.
 Grolman, Bernard, 3,692,604.
 Guerra, John P., 3,705,000.
 Harris, George J.; and Richards, William D., 3,681,774.
 Hoffmann, Donald O., 3,698,937.
 Hovey, Richard J., 3,645,909.
 Hovey, Richard J., 3,660,299.
 Jones, Donald C., 3,632,696.
 Kantorski, Joseph W.; and Young, Charles Gilbert, 3,639,066.
 Kantorski, Joseph W.; La Marre, David A.; and Smith, Donald A., 3,670,263.
 Kantorski, Joseph W., 3,700,423.
 Koester, Charles J.; and Swope, Charles Hermas, 3,670,260.
 La Marre, David A.; Schauweker, George H.; and Stickney, Herbert F., 3,691,564.
 Laliberte, Norman U., 3,674,587.
 Landry, Robert J.; and Snitzer, Elias, 3,675,155.
 Lavallee, Robert G., 3,647,299.
 Lopin, Michael, 3,631,860.
 Magnante, Peter C., 3,670,258.
 Matsura, Thomas T., 3,698,099.
 Metcalfe, Richard T.; and Crandon, Harry D., 3,678,141.
 Nagao, Kazuyoshi, 3,666,587.
 Polanyi, Michael L., 3,674,013.
 Polanyi, Michael L., 3,698,822.
 Revor, William H.; and Jones, John A., 3,662,523.
 Richards, James V., 3,658,431.
 Richards, William D., 3,678,210.
 Robinson, Charles C.; and Snitzer, Elias, 3,664,725.
 Sage, Stanley J., 3,674,012.
 Segre, Joseph P., 3,646,474.
 Segre, Joseph P., 3,702,214.
 Shoemaker, Arthur H., 3,659,923.
 Shoemaker, Arthur H., 3,659,924.
 Shoemaker, Arthur H., 3,659,925.
 Shoemaker, Arthur H.; and Sussman, Milton H., 3,671,099.
 Shoemaker, Arthur H., 3,700,311.
 Silverberg, Carl G., 3,669,435.
 Smith, Luther W.; and Snitzer, Elias, 3,700,303.
 Smith, Luther W., 3,704,997.
 Snitzer, Elias, 3,646,462.
 Strack, Richard R., 3,653,739.
 Strack, Richard R., 3,669,772.
 Strack, Richard R., 3,674,452.
 Swope, Charles Hermas, 3,653,384.
 Van Ligen, Raoul F., 3,640,599.
 Wilkinson, Leonard A., 3,655,276.
 Wilton, Henry T., 3,675,998.
 Young, C. Gilbert, 3,636,473.
 Young, Charles G., 3,702,976.
 Young, Charles Gilbert, 3,670,259.
 Young, Charles Gilbert, 3,675,152.
 Young, Charles Gilbert, 3,699,472.
 American Photocopy Equipment Company: See—
 Reuter, Henry G., Jr.; and Sparer, Seno, 3,636,925.
 Savit, Joseph; Guzik, Rudolph P.; Wayne, Harry A.; Saklikar, Arvind R.; and Van Eck, Jack M., 3,669,073.
 American Pipe and Construction Co.: See—
 Hausmann, Delbert A., 3,689,305.
 American Pipeline Equipment Company, mesne: See—
 Looney, Robert L.; and Work, John S., 3,633,813.
 American Plant Growers, Inc.: See—
 Mertz, Richard S., 3,656,611.
 American Plasti-Plate Corporation: See—
 Dennis, Donald I., 3,682,085.
 American Plasticraft Company: See—
 Dumas, Christ J., 3,638,161.
 Simovits, Stephen S.; and Dumas, Christ J., 3,636,412.
 American Pollution Control Corporation: See—
 Gallo, Carl, 3,699,906.
 American Pollution Controlled, Inc.: See—
 Seeley, Harvey E., Jr., 3,664,648.
 American Poly-Plastics Laboratories, Inc.: See—
 Palombo, Albert M., 3,697,457.
 American Potash & Chemical Corporation: See—
 Ableson, Arthur E., 3,653,847.
 Clapper, Thomas W.; and Prieto, Martin A., 3,654,102.
 American Potato Company: See—
 Shields, John Bickford, 3,705,812.
 American Precision Industries, Inc.: See—
 Fierle, Robert J.; Mott, James A.; Oles, Herbert E.; and Reed, George A., 3,688,689.
 American Pulpwood Association: See—
 Blonsky, Joseph E., 3,637,250.
 Blonsky, Joseph E., 3,698,457.
 American Radiator & Standard Sanitary Corporation: See—
 Barkovitz, William E., 3,699,748.
 American Refining Limited: See—
 Little Paul A.; and Lyon, Lloyd B., 3,681,055.
 Lyon, Lloyd B.; and Little, Paul A., 3,681,056.
 American Regitel Corporation: See—
 Wagner, Robert L.; and Ragland, Evan L., II, 3,669,237.
 American Safety Equipment Corporation: See—
 Fujisawa, Masakatsu, 3,705,761.
 Kuszynski, Gregory G., 3,682,412.
 Michelson, Irving, 3,631,865.
 American Safety Equipment Corporation, mesne: See—
 Barmasse, Alfred C.; and Jachacz, Edmund A., 3,702,486.
 American Safety Equipment Corporation of Michigan: See—
 Webb, Daniel D., 3,686,690.
 American Science & Engineering, Inc.: See—
 Cavallucci, Ralph; and Walters, John, 3,673,706.
 Orfei, John B.; Davidson, Gilbert; and Walters, John, 3,649,097.
 Sodickson, Lester A.; and Rubin, Martin J., 3,656,473.
 Walters, John, 3,688,855.
 American Seating Company: See—
 Barecki, Chester J., 3,632,159.
 Barecki, Chester J.; and Hozeski, Kenneth W., 3,632,169.
 Barecki, Chester J., 3,695,689.
 Barecki, Chester J.; and Hozeski, Kenneth W., 3,695,707.
 Barecki, Chester J.; and Schneider, Kenneth O., 3,697,130.
 McClelland, Robert G.; and Raymond, David W., 3,667,171.
 Van Loo, William R., 3,634,925.
 Van Ryn, Arthur L., 3,690,726.
 American Smelting and Refining Company: See—
 Lebedeff, Yuri E.; and Klein, William C., 3,694,191.
 Shaw, Frank D., 3,652,935.
 Stiefken, Charles E., 3,644,138.
 American Spin-A-Batch Company: See—
 Garrison, William H., 3,699,918.
 Klotzbach, Kurt, 3,699,818.
 American Standard, Inc.: See—
 Anderson, Warren Gregory, 3,634,179.
 Ares, Roland A., 3,640,090.
 Barkovitz, William E.; and Przygocki, Julius V., 3,664,094.
 Bell, Edward Hall; and Fichter, Barry Sayers, 3,633,392.
 Brody, Herbert M., 3,640,086.
 Brunner, Richard; and Mahon, Roger F., 3,664,190.
 Clayton, John B., III, 3,654,988.
 Divecha, Amarnath P.; Lare, Paul J.; Ordway, Fred, Jr.; Hermann, Robert A.; Van Blaricon, Orville B.; and Hahn, Henry, 3,668,748.
 Fichter, Barry, 3,654,957.

- Fichter, Barry S., 3,680,573.
 Forbes, Norman Arthur, 3,670,167.
 Gordon, Frederick Armstrong; Griffin, James Richard; and Pezarossi, John Joseph, 3,693,649.
 Griffin, James R.; and Forbes, Norman A., 3,639,920.
 Groteke, Daniel Edward; and Lazor, Donald Keith, 3,653,426.
 Groteke, Daniel Edward, 3,664,410.
 Haldopoulos, Ioakim; and Niemann, James Edward, 3,680,153.
 Harter, Donald G., 3,636,369.
 Krostewitz, Wolfgang, 3,665,755.
 Langlois, Henry J., 3,633,341.
 Langlois, Henry J., 3,646,756.
 Liskowitz, John W., 3,640,626.
 Liskowitz, John W., 3,653,767.
 Loveley, Joseph D., 3,653,431.
 McKissick, Dale Clay, 3,681,212.
 McManus, Herbert C., 3,653,371.
 Nelden, Richard M.; and Ryan, Thomas J., 3,703,078.
 Paljug, Joseph W.; and Brody, Samuel S., 3,652,934.
 Parkinson, Richard Grant; and Griffin, James Richard, 3,647,144.
 Parkison, Richard G.; and Vanegas, Guillermo J., 3,642,213.
 Parkison, Richard G., 3,697,002.
 Proctor, Robert H., 3,691,783.
 Roy, Salil K., 3,683,674.
 Seth, Ram Gopal, 3,645,237.
 Shaines, Alfred, 3,681,487.
 Snyder, Robert L., 3,678,757.
 Stairs, Henry Marshall, 3,680,154.
 Stairs, Henry Marshall, 3,699,614.
 Telkes, Maria; and Hahn, Henry, 3,695,903.
 Van Huffel, Philip L.; Raines, Harold J.; and Martzoleff, Clement L., 3,633,262.
 Vincent, James Henry, 3,664,092.
 Wallick, Claude Rollin, Jr.; Blodgett, William Edward; and Lazor, Donald Keith, 3,664,799.
 White, Douglas F., 3,650,152.
 Young, Sherwood L., 3,654,637.
 American Standard Linear Systems, Inc.: See—
 Church, Richard D., 3,671,804.
 American Sterilizer Company: See—
 Bellucci, Edward A.; and Winschel, Carl J., 3,635,461.
 Brendgord, Thomas, 3,670,718.
 Brendgord, Thomas; and Kereluk, Karl, 3,678,921.
 Christianson, Floyd W.; Oakes, William J.; and Sawtelle, James T., 3,648,869.
 Kereluk, Karl, 3,642,012.
 Kereluk, Karl; and Lloyd, Robert S., 3,684,660.
 Miraldi, Peter Thomas, 3,694,960.
 American Store Equipment Corporation: See—
 Schulte, Donald W., 3,697,147.
 American Sugar Company: See—
 Graham, Charles P.; Fonti, Louis, Jr.; and Martinez, Arnold M., 3,642,535.
 American Sweetener Corporation: See—
 Kracauer, Paul, 3,667,969.
 American Tatra Inc.: See—
 Macpherson, Roger, 3,685,161.
 American Technical Ceramics; a division of Phase Industries Inc.: See—
 Mezey, Frank G. J., 3,691,434.
 American Technical Industries, Inc.: See—
 De Cosmo, Anthony; Powell, Kenneth R.; and Spiegel, Si I., 3,634,180.
 Marks, Theodore, 3,657,870.
 Marks, Theodore; and Spiegel, Si, 3,692,617.
 Spiegel, Si, 3,679,528.
 Spiegel, Si, 3,682,421.
 Spiegel, Si I., 3,647,605.
 American Telephone and Telegraph Company: See—
 Buonsante, John J.; Freericks, Lambert; Haarmann, Howard J.; and Sieglinger, John C., 3,697,702.
 Thompson, Harold K., 3,639,702.
 American Thermostat Corporation: See—
 Levinn, Robert N., 3,703,693.
 American Tractor Equipment: See—
 Kant, Alvin W., 3,657,831.
 American Uniform Company; d/b/a Dust-Tex Company: See—
 Saltzstein, Julian I., 3,688,331.
 American Velcro, Inc.: See—
 Erb, George H., 3,665,584.
 Erb, George H., 3,692,459.
 Girard, Laurent H.; Hockmeyer, Clive E.; and Ouellette, Marcel C., 3,643,316.
 Perina, Joseph, 3,658,107.
 Perina, Joseph, 3,668,808.
 Perina, Joseph, 3,679,530.
 Perina, Joseph; and Hlavaty, Albert E., 3,696,472.
 Rinecker, Franz G., 3,655,118.
 American Waagner-Biro Company, Inc.: See—
 Kemmetmueller, Roland, 3,645,515.
 Kemmetmueller, Roland, 3,669,436.
 Kemmetmueller, Roland, 3,697,381.
 American Warming & Ventilating Inc.: See—
 Alley, Raymond L.; Hartman, George F., Jr.; and Ewald, John D., 3,668,999.
 American Warming Ventilating, Inc.: See—
 Alley, Raymond L., 3,650,069.
 American Welding & Manufacturing Company, The: See—
 Kinney, John M., 3,641,849.
 Winyard, Rodney W.; Fortsch, Francis J.; and Braun, Vincent C., 3,648,424.
 Yeager, Robert L.; and Brown, Arthur S., 3,633,312.
 American Wire Cloth Company: See—
 Schmiede, Lester C.; and Zeluff, Wendell C., 3,670,138.
 American Zinc Company: See—
 Carpenter, Robert K.; and Pagel, Richard F., 3,687,828.
 Ameripol, Inc.: See—
 Bozik, John E.; Swift, Harold E.; and Wu, Ching-Yong, 3,677,968.
 Ameripol, Inc., mesne: See—
 Bozik, John E.; Swift, Harold E.; and Wu, Ching Yung, 3,678,022.
 Amerock Corporation: See—
 Anderson, Donald L., 3,642,313.
 Anderson, Donald L., 3,646,612.
 Bingham, Bruce N., 3,671,065.
 Livingston, Richard D., 3,697,140.
 Newcomer, John I., 3,680,899.
 Amerola Products Corporation: See—
 Merola, Anthony, 3,672,671.
 Merola, Anthony, 3,697,069.
 Amerola Products Corporation, mesne: See—
 Merola, Anthony, 3,653,708.
 Ameron Inc.: See—
 Law, Gabriel H.; and McMahon, Walter Michael, 3,653,930.
 Metil, Ignatius, 3,700,604.
 Ameron, Inc., mesne: See—
 Beemer, Paul K., 3,691,992.
 Amerongen, Gerrit J. Van: See—
 La Heij, Gerardus E.; and Amerongen, Gerrit J. Van, 3,632,549.
 Amersil Inc.: See—
 Jung, Lothar, 3,652,245.
 Jung, Lothar, 3,674,904.
 Amery, Geoffrey Wilfred: See—
 Corbett, John Frank; and Amery, Geoffrey Wilfred, 3,641,154.
 Ames, B. C., Company: See—
 Paul, Igor L., 3,699,473.
 Ames, Horace L.: See—
 Stanley, Robert W.; Ames, Horace L.; and Jennings, Peter H., 3,674,424.
 Ames, O.; division of McDonough Company: See—
 Robison, James W.; and Eads, Harold L., 3,676,930.
 Ames, Richard H.; and Williams, Andrew W., to Acme Engineering Company, Inc. Cranial drilling instrument. 3,682,177, 8-8-72, Cl. 128-310.000.
 Ames, Sidney W.: See—
 Staudacher, Gerald R.; and Ames, Sidney W., 3,703,192.
 Ames, Stanley R., to Eastman Kodak Company. Medicinal compositions for administration to animals, and process for administering same. 3,639,587, 2-1-72, Cl. 424-173.
 Ames, Stephen A., to Westinghouse Electric Corporation. Radar system. 3,707,718, 12-26-72, Cl. 343-7.700.
 Ames, Stuart L.: See—
 Staley, William E.; and Ames, Stuart L., 3,681,152.
 Ames, W. R., Company: See—
 Held, Charles J., Jr., 3,655,159.
 Ames, Ward A., to Tridan Tool & Machine, Inc. Tube expansion apparatus. 3,688,533, 9-5-72, Cl. 72-22.000.
 Amesbury, Maurice G.; and Van Vonderen, Jacobus, to Teledyne, Inc. Step-and-repeat camera having an improved film indexing means. 3,680,461, 8-1-72, Cl. 95-37.000.
 Ametek, Inc.: See—
 Adolphi, George, 3,693,832.
 Ebner, Craig E.; and Markley, Jeffrey V., 3,691,546.
 Guerster, Rene L., 3,670,773.
 Guerster, Rene L., 3,679,145.
 Guerster, Rene L., 3,680,802.
 Harland, Philip W., 3,696,687.
 Hottendorf, William J., 3,634,170.
 Hottendorf, William J., 3,684,627.
 Hunt, James E.; and Guerster, Rene L., 3,633,980.
 Kemmerer, Kenneth C., 3,690,181.
 Krynski, John E.; and Seggebruch, Ernie G., 3,648,844.
 Lidgard, Robert J., 3,704,807.
 Mollick, Minton, 3,686,944.
 Pritchard, Donald A.; and Gomez, Aldan Duane, 3,662,274.
 Raznov, Jerry L.; and Warren, Donald E., 3,656,451.
 Raznov, Jerry L., 3,685,360.
 Summers, Stanley E.; and Seltzer, Clyde W., 3,675,282.
 Summers, Stanley E., 3,693,691.

- Todd, Hoyt H.; McIntyre, John F.; and Lewis, Le Roy, 3,647,572.
 Amex Corporation: See—
 Snelling, James W., 3,646,897.
 AMF Incorporated: See—
 Anderson, George F., 3,683,716.
 Apple, Joseph H., 3,636,542.
 Barnes, Robert Gilbert, Jr.; and Schnick, Arthur Warren, 3,662,153.
 Blewitt, Donald Joseph; and Schmidt, Otto Karl, 3,646,943.
 Cristiani, Athos, 3,700,141.
 Des Jardins, Joseph A., 3,675,912.
 Gasiorowski, Roman J., 3,672,198.
 Gianese, Goffredo, 3,650,169.
 Gianese, Goffredo, 3,655,080.
 Giatti, Filippo, 3,665,930.
 Heckman, Donald B., 3,701,090.
 Hollenton, Frank, 3,680,360.
 Hollenton, Frank, 3,699,977.
 Holman, Rudolph G., 3,635,482.
 Jacoby, William F., 3,655,219.
 Koch, Claude V.; and Storms, Donald G., 3,665,881.
 Langenhof, John Herman, 3,664,485.
 Mizzau, Carlo, 3,665,931.
 Ossenkop, Robert J.; and Wilson, Alfred L., 3,680,858.
 Ruben, Napoleon H.; and Tilburg, Holstaf, 3,635,173.
 Rudd, Wallace C., 3,648,005.
 Schulze-Berge, Karl J., 3,700,837.
 Schupan, Fred A., 3,680,403.
 Schuran, Fred A., 3,685,366.
 Sicard, Marcel Clarence, 3,648,846.
 Sicard, Marcel Clarence, 3,674,154.
 Skarivda, Edwin Larry, 3,704,629.
 Stancari, Franco, 3,680,280.
 Walters, William T., 3,646,805.
 Wickman, Vernon C., 3,673,359.
 Zuercher, John, 3,649,012.
 AMF Incorporated, mesne: See—
 Hickmann, Horst R., 3,645,017.
 Howe, John G., 3,690,658.
 Nance, Robert L., 3,648,054.
 Amforge, Inc.: See—
 Broom, Robert F., 3,650,736.
 AMH Corporation: See—
 Moden, James R., 3,675,279.
 Amiable, Rene; Lhuillier, Jean-Noel; and Benkheiri, Paul, to Etat Francais represente par Le Ministre des Armees, Delegation Ministerielle pour l'Armement (Direction des Poudres). Detonator and igniter for explosives. 3,667,391, 6-6-72, Cl. 102-70.000.
 Amiard, Gaston: See—
 Heymes, Rene; and Amiard, Gaston, 3,642,788.
 Heymes, Rene; Amiard, Gaston; and Nomine, Gerard, 3,658,802.
 Amiard, Gaston; Nomine, Gerard; and Torelli, Vesperto, to Roussel-UCLAF. Substituted hydroindanyl alkanolic acids. 3,686,241, 8-22-72, Cl. 260-410.500.
 Amiard, Gaston; and Heymes, Rene, to Roussel-UCLAF. 1,3-Thiazines and their preparation. 3,707,540, 12-26-72, Cl. 260-243.000.
 Amiard, Yves; Bellissent, Jean-Paul; and Marie, Gilbert, to Societe Nationale des Petroles d'Aquitaine. Copolymers of olefine and N-unsaturated derivatives of carbazole. 3,642,730, 2-15-72, Cl. 260-80.72.
 Amiard, Yves; and Bellissent, Jean-Paul, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Cycloalkenyl tricycloalkenes used to produce elastomers by copolymerisation with olefines. 3,655,796, 4-11-72, Cl. 260-666.
 Amicel, Charles: See—
 Jacquot, Michel; and Amicel, Charles, 3,698,619.
 Amici, Alba-Maria; Minghetti, Anacleto; Scotti, Tullio; and Spalla, Celestino, to Societa Farmaceutici Italia. Process for the preparation of ergotamine and ergocryptine. 3,658,653, 4-25-72, Cl. 195-81.
 Amici, Francis Robert; and Davis, Robert E., to Ideal Toy Corporation. Animated toy. 3,650,066, 3-21-72, Cl. 46-129.
 Amici, Francis Robert; Davis, Robert E.; and Levine, Richard, to Ideal Toy Corporation. Doll having adjustable lock of hair. 3,698,134, 10-17-72, Cl. 46-135.000.
 Amick, David W. Asymmetrical jet ejector. 3,650,637, 3-21-72, Cl. 417-151.
 Amick, Larry D., to Carrier Corporation. Refrigerant throttling device. 3,642,030, 2-15-72, Cl. 138-45.
 Amicon Corporation: See—
 Bixler, Harris J., 3,639,162.
 Blatt, William F.; Agranat, Edward A.; and Rigopulos, Peter N., 3,705,100.
 Cross, Robert A., 3,691,068.
 Desaulniers, Charles W.; and Ford, Cheryl A., 3,632,404.
 Desaulniers, Charles W.; Ford, Cheryl A.; and Mayo, Richard W., 3,651,030.
 Hausslein, Robert W.; and Molvar, Henry E., Jr., 3,655,432.
 Loeffler, Herbert H.; and DiMauro, Sebastian B., 3,652,187.
 Rigopulos, Peter N., 3,682,318.
 Splitz, Stephen A., 3,635,846.
 Sternberg, Shmuel; Bixler, Harris J.; and Michaels, Alan S., 3,639,306.
 Amidon, Alan B.: See—
 Mammino, Joseph; and Amidon, Alan B., 3,692,520.
 Amidon, Alan B.; and Mammino, Joseph, to Xerox Corporation. Cyclic imaging system. 3,652,319, 3-28-72, Cl. 117-37.
 Amidon, Alan B.; Sankus, Joseph G.; Petruzzella, Nicholas L.; and Ewing, Joan R., to Xerox Corporation. Migration imaging method employing adhesive transfer member. 3,664,834, 5-23-72, Cl. 96-14.
 Amidon, Charles H., Jr., to Gulf & Western Systems Company. Apparatus for washing fabric web. 3,635,054, 1-18-72, Cl. 68-43.
 Amidon, Roger W.; and Gencarelli, Richard A., to Uniroyal, Inc. Long chain hydrocarbon dithiocarbamate accelerators and method of making same. 3,674,824, 7-4-72, Cl. 260-429.00k.
 Amin, Ashok Babubhai, to American Cyanamid Company. Defluorinated calcium phosphate compositions, and method of preparing and using same. 3,652,206, 3-28-72, Cl. 23-109.
 Amir, Ilan; and Peranio, Anthony, to Technion Research and Development Foundation Limited. Flow measuring device. 3,678,754, 7-25-72, Cl. 73-419.000.
 Amirault, Frank H.: See—
 Eckler, Richard C.; and Amirault, Frank H., 3,661,350.
 Amirikian, Arsham. Lift pontoon and dock. 3,688,719, 9-5-72, Cl. 114-500.
 Amisano, Andrew L.: See—
 Gail, Charles P.; Zanetti, Ugo Serra; and Amisano, Andrew L., 3,660,987.
 Amlab AB: See—
 Duren, Lennart Axel; and Andersson, Arne, 3,694,713.
 Amland, Ronald D.; and Castle, Robert L., to Gar Honing Service, Inc. Tapered bore probe. 3,667,284, 6-6-72, Cl. 73-37.900.
 Amley, Oliver Bernard: See—
 Caiola, Robert Joseph; Mick, William F.; and Amley, Oliver Bernard, 3,658,980.
 Amlie, Robert F.: See—
 Morehouse, Clarence Kopperl; and Amlie, Robert F., 3,649,363.
 Ammann, Stephen K., to Bessemer Securities Corporation, mesne. Method and apparatus for the formation of alpha-numerical characters on light sensitive surfaces. 3,651,258, 3-21-72, Cl. 178-15.
 Ammatuna, Salvatore. Tapping tool. 3,653,780, 4-4-72, Cl. 408-241.
 Ammco Tools, Inc.: See—
 Bogaerts, Leo C.; and Weinberger, George W., 3,670,584.
 Mitchell, Wallace F., 3,663,045.
 Mitchell, Wallace F., 3,691,878.
 Ammerman, Gale R., to Mississippi State University Development Foundation, Inc. Fish skinning process. 3,706,333, 12-19-72, Cl. 146-228.000.
 Ammerman, George Edward; and McFarlane, William, to Heatcraft, Inc. Open coil heating element assembly. 3,641,312, 2-8-72, Cl. 219-532.
 Ammerman, Harvey F.; and Radsky, Alexey P. Water seasaw device. 3,666,265, 5-30-72, Cl. 272-56.000.
 Ammermann, Frank E.: See—
 Teague, Dwight Maxwell; Bertrand, William F.; Willson, Philip J.; and Ammermann, Frank E., 3,667,975.
 Ammitzboll, Thorkil: See—
 Petersen, Povl Viggo; and Ammitzboll, Thorkil, 3,681,346.
 Ammon & Champion Company, Inc.: See—
 Ammon, John P.; and Inacker, Frederick T., 3,671,917.
 Ammon, John P.; and Inacker, Frederick T., to Ammon & Champion Company, Inc. Printed circuit board connector. 3,671,917, 6-20-72, Cl. 339-17.001.
 Ammon, John Preston; and Inacker, Frederick T., to Elfab Corporation. Multi-layer printed circuit board and method of manufacture. 3,660,726, 5-2-72, Cl. 317-101.
 Ammons, Richard B. Method of preparing reinforced sheeting material based on chlorinated olefin polymers. 3,705,067, 12-5-72, Cl. 156-324.000.
 Ammons, Robert L.; and Moore, Robert B., Jr., to Eastman Kodak Company. Spun polyester strands and method for making. 3,664,114, 5-23-72, Cl. 57-140.00r.
 Amo, Kiyoyuki: See—
 Fukunaga, Masao; and Amo, Kiyoyuki, 3,706,135.
 Amo, Tadashi; and Nagasawa, Tuneso, to Kao Soap Company, Ltd. Dentifrice composition. 3,692,894, 9-19-72, Cl. 424-56.000.
 Amoco Production Company: See—
 Askew, Warren S.; and Marrs, Richard E., 3,698,479.
 Blenkarn, Kenneth A., 3,648,638.
 Dauben, Dwight L.; Froning, H. R.; and Jones, Loyd W., 3,670,819.
 Donham, James E., 3,699,118.
 Driscoll, Vance J., 3,638,731.
 Farr, John B.; and Landrum, Ralph A., Jr., 3,678,454.
 Farr, John B., 3,702,635.

- Fast, Clarence R.; Rix, Frederick H.; and Duffield, Ernest L., Jr., 3,681,240.
- Hujasak, Karol L.; and Palm, John W., 3,681,024.
- Hunt, Elton B., Jr.; and Hujasak, Karol L., 3,702,884.
- Jones, Loyd W., 3,688,829.
- Landrum, Ralph A., Jr., 3,698,508.
- Lummas, James L.; and Anderson, Duane B., 3,649,547.
- Newton, George R.; and Jageler, Alfred H., 3,677,081.
- Richardson, James D., 3,654,649.
- Shanks, John L., 3,703,632.
- Silverman, Daniel, 3,654,886.
- Silverman, Daniel, 3,678,452.
- Silverman, Daniel; and Treitel, Sven, 3,680,040.
- Thompson, Robert R., 3,645,551.
- Wagner, Ovrner R., Jr.; Smith, Lowell R.; and Osborn, Jack L., 3,656,550.
- Wilder, Lawrence B., 3,666,304.
- Amodei, Juan Jose, to RCA Corporation. Information storage system employing optical entry and removal of information. 3,651,488, 3-21-72, Cl. 340-173.
- Amodei, Juan Jose; and Williams, Richard, to RCA Corporation. Electro-optical memory. 3,660,818, 5-2-72, Cl. 340-173.
- Amole, Inc., mesne: See—
- Lala, Louis A., 3,673,954.
- Amolsch, William; and Maher, Robert J., to Douthitt Corporation. Microfilm duplicator and method of photocopying microfilms. 3,671,124, 6-20-72, Cl. 355-124.000.
- Amori, Joseph A. Fruit cutting and de-pitting system. 3,688,826, 9-5-72, Cl. 146-17.00r.
- Amoroso, Michael J., to Lee-Norse Company. Material collecting means for mining machines. 3,680,920, 8-1-72, Cl. 299-64.000.
- Amoroso, Michael J., to Lee-Norse Company. Mining machine having liquid supply sealing means. 3,698,769, 10-17-72, Cl. 299-73.000.
- Amos and Smith Hosiery Company: See—
- Bryant, Elba H., 3,641,589.
- Amos, Arthur: See—
- Grewcock, Sidney B.; Cooper, Alan; Amos, Arthur; and Sylvester, Paul, 3,668,899.
- Amos, Brian Franklyn: See—
- Davis, Anthony Charles; and Amos, Brian Franklyn, 3,706,195.
- Amos, Charles William; Johnson, Maynard Dale; and Dieckmann, John Jacob, to Dunham-Bush, Inc. Apparatus for helically corrugating flexible tubular metal foil ducts. 3,685,329, 8-22-72, Cl. 72-129.000.
- Amos, Homer C.: See—
- Strickland, Edward T.; and Amos, Homer C., 3,697,241.
- Amos, Homer C.; and Strickland, Edward T. Article coated with a water-washable tacky elastomer. 3,682,690, 8-8-72, Cl. 117-122.00p.
- Amos, Ralph A.: See—
- Carter, Robert; Amos, Ralph A.; and Gregory, Charles A., Jr., 3,665,495.
- Amos, Robert Walter James: See—
- Drake, Cyril Francis; and Amos, Robert Walter James, 3,669,697.
- Amosov, Pavel Evgenievich; Imyanitov, Leonid Mikhailovich; Smekhov, Vitaly Konstantinovich; and Trofimov, Valery Leonidovich. Screw-rotor machine for compressible fluids. 3,666,384, 5-30-72, Cl. 418-201.
- Amosov, Pavel Evgenievich; Smekhov, Vitaly Konstantinovich; Trofimov, Valery Leonidovich; Shvarts, Aveli Isaich; Shnepp, Vladimir Borisovich; and Razumovsky, Alexandr Petrovich. Screw rotor machine for compressible media. 3,692,441, 9-19-72, Cl. 418-191.00.
- AMP Domestic Inc.: See—
- Keller, Joseph Richard; and Pritulsky, James, 3,705,756.
- Rueger, Herman; and Keller, Joseph Richard, 3,699,651.
- AMP Domestic, Inc., mesne: See—
- Murray, Robert Maclay, 3,701,966.
- AMP Incorporated: See—
- Baker, Charles Edward, II; and Casciotti, Albert, 3,671,921.
- Bogar, Jerry Hench, 3,705,379.
- Bressler, Robert Lee; Alexiev, Iwan Rangelov; Troxell, Frank Vollmer; and Richards, George Gilman, 3,657,595.
- Brown, Christopher Kingsley; Cea, Carmen Achille; and Warne, Thomas Parkison, Jr., 3,665,574.
- Bruner, Peter Martin, 3,663,927.
- Bruner, Peter Martin, 3,670,289.
- Bruner, Peter Martin, 3,678,385.
- Bruner, Peter Martin, 3,699,505.
- Bunnell, Edward Dennman, 3,706,955.
- Busler, Willard LeRoy, 3,641,641.
- Busler, Willard LeRoy; Phillips, Howard Charles; and Ross, Milton Dean, 3,641,649.
- Capper, Harry Milton; Woolley, Harold Oakley, Jr.; Lemons, Clifton Eugene; and Wagner, Richard Maxwell, 3,661,752.
- Capper, Harry Milton; and Wagner, Richard Maxwell, 3,687,104.
- Carter, Clyde Thomas, 3,636,497.
- Carter, Clyde Thomas, 3,660,728.
- Carter, Clyde Thomas, 3,699,502.
- Carter, Clyde Thomas, 3,707,696.
- de Sio, Frederick Carl, 3,702,895.
- Demler, Henry William, Sr., 3,640,309.
- Demler, Henry William, Sr.; and Weist, Edward Landis (said Demler assor. to), 3,640,552.
- Demler, Henry William, Sr., 3,674,292.
- Demler, Henry William, Sr., 3,703,302.
- Desso, Jerome Andrew; and Henschen, Homer Ernst, 3,651,444.
- Desso, Thomas Dean; and Henschen, Homer Ernst, 3,669,054.
- Dola, Frank Peter, 3,634,605.
- Douglass, Frank Irvin, 3,704,441.
- Dowling, Edward Camp; and Thomas, John Breniser, 3,668,433.
- Dumeige, Daniel, 3,681,740.
- Evans, William Robert, 3,670,288.
- Folk, Kenneth Foster, 3,641,646.
- Folk, Kenneth Foster, 3,641,650.
- Folk, Kenneth Foster, 3,701,961.
- Forney, Edgar Wilmot, Jr., 3,663,901.
- Foust, Tilman Harrison, Jr.; and Zell, Dale Richard, 3,663,922.
- Fritz, William Baird; Sanders, Neil Harrison; Reyner, Emerson Marshall, III; and Fox, Harry Alvin, Jr., 3,683,494.
- Fritz, William Baird; and Hudson, William Jeffrey, Jr., 3,699,272.
- Garver, William Joseph, 3,670,293.
- Gillespie, James Francis, 3,706,121.
- Gluntz, Glenn Harlan, 3,649,950.
- Gluntz, Glenn Harlan, 3,659,243.
- Hammell, Kemper Martel; and Kaylor, Karl Lester, 3,665,378.
- Hammell, Kemper Martel, 3,675,242.
- Hammell, Kemper Martel, 3,697,928.
- Hammond, James Woodrow, 3,686,752.
- Hartmann, Karl Ilhelm, 3,665,370.
- Harwood, Robert George, 3,643,201.
- Heinlen, Frederick Jay, 3,650,232.
- Henschen, Homer Ernst; and Reyner, Emerson Marshall, II, 3,651,432.
- Henschen, Homer Ernst, 3,652,899.
- Henschen, Homer Ernst; Huffnagle, Clifton Wesley; and Zell, Dale Richard, 3,663,930.
- Henschen, Homer Ernst, 3,697,925.
- Henschen, Homer Ernst; and Zell, Dale Richard, 3,703,604.
- Heyden, Vander; and Ernest, Eric, 3,703,627.
- Hoffman, Joseph Willard, 3,662,761.
- Hoffman, Joseph Willard; and Demler, Henry William, Sr., 3,706,219.
- Hoffman, Norman Edwin, 3,653,099.
- Huber, John Henry, 3,699,504.
- Jacobs, Wayne John; Fritz, Robert William; and Peiffer, Howard Richard, 3,697,389.
- Keller, Joseph Richard; and Pritulsky, James, 3,638,008.
- Kinkaid, Robert John, 3,656,093.
- Kinkaid, Robert John; and Asick, John Car, 3,696,323.
- Kinkaid, Robert John; and Asick, John Carl, 3,705,376.
- Kloth, James Albert, 3,667,101.
- Kobler, Robert James, 3,648,213.
- Kunkle, John Philip; and Pauza, William Vito, 3,639,893.
- Kunkle, John Philip; and Kunkle, James Raymond, 3,697,927.
- Landry, Thomas J., 3,655,063.
- Lau, Ralph Rupp; and Sitz, Gilbert Carl, 3,664,218.
- Lockard, Joseph L.; and Rose, William Henry, 3,699,279.
- Lockard, Joseph Larue; and Rose, William Henry, 3,665,127.
- Lockard, Joseph Larue, 3,706,874.
- Longenecker, Bruce Cameron; De Lyon, Armand Rene; and Kensinger, Lex Donald, 3,634,879.
- Loose, Winfield Warren, 3,632,059.
- Loose, Winfield Warren, 3,694,593.
- Lynch, James Edward, 3,701,078.
- Maltis, Frederick Jean, 3,633,149.
- Morrissey, Ronald James; and Crumley, J. A., 3,649,472.
- Over, William Roderick, 3,639,977.
- Parsons, Stuart L., 3,650,706.
- Patton, George Allen, 3,702,456.
- Pauza, William Vito, 3,634,601.
- Pauza, William Vito, 3,651,448.
- Podmore, Alan William Ronald, 3,633,152.
- Polidori, Mario, 3,633,147.
- Poltanavage, Edward Michael, 3,636,505.
- Pritulsky, James, 3,668,342.
- Robins, Ray Mervyn, 3,673,299.
- Roydon, William Merry, 3,697,934.
- Schor, Ferdinand William, 3,702,422.
- Schreck, John Thomas, 3,645,774.
- Schreck, John Thomas, 3,698,083.
- Shannon, Suel Grant, 3,653,389.
- Shannon, Suel Grant, 3,688,402.
- Shughart, Mervyn Leonard, 3,699,631.
- Sweeney, Joseph Patrick; and Rueger, Herman, 3,706,134.
- Swengel, Robert Charles, Sr.; and Lemke, Timothy Allen, 3,656,092.

- Swengel, Robert Charles, Sr., 3,703,623.
- Townsend, Peter K., 3,681,743.
- Trimble, John Omer; and Demler, Henry William, Sr., 3,672,383.
- Vander Heyden, Eric Ernest, 3,700,861.
- Vigeant, George Henry; and Kloth, James Albert, 3,683,319.
- Vockroth, William Joseph, 3,673,312.
- Volinski, Robert, 3,673,541.
- Wasserlein, Henry George, Jr., 3,694,863.
- Werner, Walter Myers; Vockroth, William Joseph; and Hays, Kenneth Scott, 3,681,512.
- Wise, Joseph Agusta, 3,634,817.
- Zell, Dale Richard, 3,634,816.
- Ziegler, George W., Jr., 3,673,547.
- Ziegler, George William, Jr.; Apa, Armand Samuel; and Heffner, Donald Elwood, 3,654,793.
- Ziegler, George William, Jr., 3,668,608.
- Ziegler, George William, Jr.; and Hughes, Donald Kent, 3,678,447.
- Ziegler, George William, Jr., 3,701,083.
- Zimmerman, John Aaron, Jr., 3,703,701.
- AMP Incorporated, mesne: See—
- Ahmed, Kamal, 3,633,153.
- Ahmed, Kamal, 3,705,996.
- Clark, Donald George; and Hicks, Derek J., 3,638,877.
- Gilissen, Hermanus Petrus Johannes, 3,662,298.
- Guillemette, Gilbert Auguste; and Delorme, Michel Jean, 3,667,102.
- Kindell, Colin David, 3,673,643.
- Page, Ian Bruce; and Thompson, Alan, 3,654,593.
- Pierre, Henri De Saint, 3,652,758.
- Plana, Roberto, 3,641,477.
- Podmore, Alan William Ronald, 3,675,180.
- Raynor, Terence Robert, 3,699,495.
- Raynor, Terence Robert; and Abbott, Peter Charles Terence, 3,702,455.
- Startin, Kenneth John; and Ahmed, Kamal, 3,675,188.
- Teagno, Wladimiro; and D'Urso, Gianfranco, 3,633,156.
- Teagno, Wladimiro; and D'Urso, Gianfranco, 3,634,811.
- Teagno, Wladimiro, 3,648,115.
- Teagno, Wladimiro; and Trevisiol, Franco, 3,680,035.
- Trevisiol, Franco, 3,693,134.
- van de Kerkhof, Lodevicus Lambertus Johannes, 3,673,847.
- Amplex Corporation: See—
- Audeh, Azmi S., 3,645,472.
- Audeh, Azmi S.; Deodhar, Anil N.; and Glattfelder, Henry G., 3,648,134.
- Baba, Paul D.; and Argentina, Giltan Michael, 3,644,207.
- Beck, Fred R.; Fanella, Robert J.; and Gioia, Norman F., 3,640,483.
- Boblett, Emil V., 3,702,448.
- Chupity, Joseph; and Poole, Burnet M., 3,651,278.
- Clark, Harold V.; and Garagnon, Gary B., 3,643,012.
- Clark, Harold V., 3,651,277.
- Clark, Harold V., 3,663,877.
- Clark, Harold V.; and Engbretson, Gerald C., 3,686,469.
- Coy, Don R., 3,659,797.
- Ellmore, William A., 3,691,315.
- Emmons, Lawrence D., 3,665,099.
- Esterly, Daniel David; and Jacob, Larry Michael, 3,652,808.
- Eul, Edward A., Jr.; and Richter, Ronald B., 3,647,990.
- Everett, Thomas David, 3,695,553.
- Gyi, Maung, 3,659,276.
- Hathaway, Richard Allen, 3,697,679.
- Hwang, Paul Y., 3,634,063.
- Hwang, Paul Y., 3,671,435.
- Kember, Bryan F., 3,692,256.
- Kowal, Leonard, 3,636,252.
- Lemoine, Maurice G., 3,643,013.
- Long, Edward M., 3,645,355.
- Madden, Theodore R.; Hopkins, George H., Jr.; and Chessman, Michael, 3,646,459.
- Marcinkus, Donald W., 3,659,857.
- Marcinkus, Donald W., 3,659,859.
- Mattas, Charles B., 3,647,989.
- Peratis, Michael P., 3,640,374.
- Poulett, Anthony, 3,637,928.
- Prader, James Edward; and King, Harless W., II, 3,694,293.
- Rose, Marshall G., Jr., 3,647,951.
- Sidline, George B., 3,641,504.
- Sidline, George B., 3,681,523.
- Siebert, Raymond C., 3,659,045.
- Smaller, Philip; and Treves, David, 3,701,133.
- Smit, Jan; Baba, Paul David; and Argentina, Giltan Michael, 3,694,361.
- Stahler, Alfred F., 3,666,201.
- Sterly, Glenn E., 3,653,669.
- Sterly, Glenn E., 3,659,858.
- Sterly, Glenn E., 3,661,396.
- Sterly, Glenn E., 3,690,679.
- Trost, Allen J., 3,663,763.
- Trost, Allen J.; and Oldershaw, Reginald W., 3,663,764.
- Van Heeckeren, Jacob; Rodal, David R.; and Markevitch, Bob V., 3,697,149.
- Villers, Walter H.; and Johnson, Ernest B., 3,677,495.
- Weber, Sheldon Alan, 3,647,539.
- Williams, David, 3,633,807.
- Wolf, Irving William; and Woody, Roberta A., 3,634,209.
- Zimmermann, Ernest F., 3,695,131.
- Zwetzig, Brian L.; and Coy, Don R., 3,682,486.
- Amplifon S.a.s.: See—
- Gay, Guido, 3,648,196.
- Amplivox Limited: See—
- Gorman, Anthony Graham, 3,637,040.
- Amrehn, Hermann, to Chemische Werke Huls Aktiengesellschaft. Method and system for the automatic control of chemical plants with parallel-connected computer back-up system. 3,636,331, 1-18-72, Cl. 235-151.12.
- Amsbury, Clifford Roy: See—
- Pountney, Laurence Howard; Amsbury, Clifford Roy; and Antliff, Stanley John, 3,657,488.
- Amscat Corporation: See—
- Thayer, Olin E., 3,665,474.
- Amsco Packaging Machinery, Inc.: See—
- Smith, William E.; Primosch, Edward P.; and Keenan, John D., Jr., 3,650,873.
- Amsted Industries Incorporated: See—
- Altherr, Russell G.; Shramovich, Paul F.; and Metzger, Nelson D., 3,640,402.
- Altherr, Russell George, 3,635,357.
- Altherr, Russell George, 3,635,358.
- Armstrong, Adna A., 3,689,241.
- Beque, John H., 3,675,494.
- Blout, Bennett O., 3,633,899.
- Dwyer, Howard I., Jr., 3,670,873.
- Ebeling, Arthur W., 3,651,860.
- Germain, Andrew G.; and Dressel, William G., 3,675,518.
- Germain, Andrew G.; and Dressel, William G., 3,684,004.
- Greene, Bernard A., 3,659,992.
- Harz, Edward F., 3,649,036.
- Landmark, Kenneth L.; and Ashley, Allan J., 3,698,141.
- Mulcahy, Harry W.; and Russell, Thomas B., 3,675,350.
- Mulcahy, Harry W.; Bushnell, Eldon W.; and Kaim, John W., 3,679,028.
- Neff, Paul J.; and Bright, Jerald L., 3,653,252.
- Peck, Richard O., 3,675,889.
- Peck, Richard Otis, 3,689,023.
- Resener, Baird E., 3,643,792.
- Shramovich, Paul F., 3,635,356.
- Tack, Carl E., 3,635,168.
- Tack, Carl E.; and Rodgers, Loyal J., 3,646,604.
- Visser, Jan, 3,677,061.
- Zickefoose, Ellis J., 3,656,539.
- Amstel Brouwerij N.V.: See—
- Gravesteijn, Elbert, 3,672,390.
- Amstutz, Edwin A.: See—
- Harte, Richard A.; and Amstutz, Edwin A., 3,693,623.
- Amthor, Helmut K., to Union Carbide Corporation. Pressure relief vent valve for a fluid tight sealed container especially an alkaline galvanic cell. 3,664,878, 5-23-72, Cl. 136-178.
- Amtlücke Forschungs-und Materialprüfungsanstalt für das Bauwesen, Otto-Graf-Institut an der Universität Stuttgart: See—
- Müller-Welt, Hans, 3,643,512.
- Amtron Inc.: See—
- Kasper, Frank S., 3,634,741.
- Kasper, Frank S., 3,682,215.
- Porter, Virgle E., 3,646,521.
- Amtsberg, Lester A.: See—
- Schaedler, Raymond J.; and Amtsberg, Lester A., 3,667,345.
- Amtsberg, Lester A.; and Wallace, William K., to Chicago Pneumatic Tool Company. Pneumatic nut-runner having a torque sensing device. 3,645,341, 2-29-72, Cl. 173-12.
- Amtsberg, Lester A.; Bilodeau, Paul J.; and Judd, Sebastian F., to Chicago Pneumatic Tool Company. Fluid operated rock drill having an independent rotation motor. 3,685,593, 8-22-72, Cl. 173-14.000.
- Amundsen, Paul D.; and Liautaud, John N., to Fendall Company. Protective faceshield. 3,696,442, 10-10-72, Cl. 2-8.000.
- Amundson, Clyde H.: See—
- Buhler, Allen C.; Engel, Eric; Nelson, John H.; and Amundson, Clyde H., 3,653,921.
- Amusin, Boris Zinovievich: See—
- Silvestrov, Sergei Nikolaevich; Sinichkin, Moisei Mikhailovich; Shirokov, Grigory Ivanovich; Soloviev, Jury Filippovich; Silvestrov, Nikolai Demyanovich; and Amusin, Boris Zinovievich, 3,675,433.
- AMVIT: See—
- Potter, Charles, 3,635,444.
- Potter, Charles, 3,675,685.
- Ana Maria, Inc.: See—
- Easterbrooks, David S., 3,637,278.

Anacker, Wilhelm, to International Business Machines Corporation. Multiple junction tunnel devices. 3,643,237, 2-15-72, Cl. 340-173.1.

Anacker, Wilhelm, to International Business Machines Corporation. Magnetic decoder network with multi-dimensional selection capability. 3,646,550, 2-29-72, Cl. 340-347.

Anacker, Wilhelm; and Zappe, Hans H., to International Business Machines Corporation. Superconducting memory array using weak links. 3,705,393, 12-5-72, Cl. 340-173.100.

Anaconda Aluminum Company: See—

Kuniansky, Raymond L., 3,683,555.

Anaconda American Brass Company: See—

Bahr, William T.; and Lewis, Robert V., 3,670,774.

Laigle, Roger E.; and Rakich, Antone F., 3,692,223.

Anaconda American Brass Company, mesne: See—

Rowell, Douglas W., 3,650,456.

Anaconda Astrodata Co.: See—

Rheinfelder, William A., 3,704,419.

Anaconda Company, The: See—

Bigley, Arthur C., Jr.; and Kramlick, Emil S., 3,642,267.

Delaney, John F., 3,655,044.

Grunig, James K.; Davis, William B.; and Aitkenhead, William C., 3,685,961.

Grunig, James K.; Davis, William B.; and Aitkenhead, William C., 3,699,208.

Grunig, James K.; Davis, William B.; and Aitkenhead, William C., 3,704,091.

Habashi, Fathi; Dugdale, Raymond; and Holderreed, Francis L., 3,650,679.

Anaconda Company, The, mesne: See—

Versteegh, Jan, 3,654,096.

Anaconda Wire and Cable Company: See—

Arnaudin, Edwin H., Jr.; and Morrison, William F., 3,666,877.

Burr, Harvey, 3,650,862.

Burr, Harvey, 3,659,408.

Engelhardt, John Sherman; and Ebel, Lawrence, 3,633,191.

Grey, William L., 3,662,090.

Hansen, Theodore E.; and Wilson, Floyd A., 3,699,238.

Hubbard, Ronald R.; and Nalevanko, Richard N., 3,700,185.

Ling, Ting H.; and Solomon, Marwick H., 3,646,248.

Menasoff, George N., 3,692,448.

Plate, Walter J., 3,707,595.

Snyder, Clermont J.; and Moore, Jack P., 3,659,830.

Stauffer, John Dale; Arnaudin, Edwin Henry, Jr.; and Chrisman, Willis Lee, 3,645,656.

Ulmer, William W., 3,647,726.

Volk, Victor F., 3,649,745.

Wade, Robert M., 3,705,257.

Anaconda Wire and Cable Company, mesne: See—

Kothe, Erich W., 3,633,194.

Anaconda Wire Cable Company: See—

Agonis, Henry A., 3,659,802.

Anadite Incorporated: See—

Daniels, Floyd La Mar, 3,690,367.

Analog Devices, Inc.: See—

Pastoriza, James J., 3,685,045.

Analog Technology Corporation: See—

Marshall, J. Howard, III; and Harrington, Timothy M., 3,671,740.

Analytical Instruments Limited: See—

Jenkins, Anthony; and Cornell, Richard Charles, 3,699,342.

Anand, Yoginder: See—

Howell, Charles M.; and Anand, Yoginder, 3,649,890.

Anaren Microwave, Incorporated: See—

Sly, Thomas L.; Weis, Joseph A.; and Leto, Joseph T., 3,643,164.

Anastasio, Frank J.; Brundage, Clinton F.; and Strakosch, Clarence P., to North American Rockwell Corporation, mesne. Apparatus for handling books. 3,640,407, 2-8-72, Cl. 214-6.

Anati, Reuven. Wrench. 3,664,213, 5-23-72, Cl. 81-91.

Anayama, Takeshi: See—

Okada, Tsuneo; Onodera, Yutaka; Mitsuoka, Takeshi; Saito, Yukinori; Muto, Yoshio; Anayama, Takeshi; and Yasukochi, Ko, 3,691,046.

Anba Sportmode Vorsteher KG: See—

Vorsteher, Werner, 3,671,975.

Anbeck Corporation: See—

Hayes, Thomas J., Jr., 3,670,374.

Ance, Louis, to Superior Continental Corporation. Mechanical, solderless ground wire connectors for telephonic cable shielding jackets. 3,643,006, 2-15-72, Cl. 174-84.

Anchor Chemical Company Limited, The: See—

Tilley, Colin; Watson, David Harris; and Campbell, Michael, 3,644,568.

Anchor Hocking Corporation: See—

Brady, Dale J., 3,685,632.

Brady, Dale J.; and Gerken, George W., 3,702,563.

Hall, Thomas H., Jr.; Cottrill, Jon R.; and Dubble, Roger D., 3,658,304.

Lush, John S., 3,650,724.

McKinstry, Richard G., 3,659,551.

Oglesbee, Richard K., 3,693,788.

Oglesbee, Richard K., 3,693,830.

Risch, William E.; and Acton, Daniel D., 3,637,101.

Shonebarger, Francis J., 3,697,242.

Tucker, William Henry, 3,672,514.

Anchor Post Products, Inc., mesne: See—

Case, John S.; and Johnson, William B., 3,650,798.

Anchor-Wate Company: See—

Findley, Anthony W.; and Rogers, Jesse M., 3,670,696.

Anciens Ets., T.M.B.-J. Tobler S.A.: See—

Herose, Hans, 3,670,582.

Ancilletta, Giuseppe: See—

Maresca, Arcangelo; and Ancilletta, Giuseppe, 3,631,608.

Ancker, Fred H., to Union Carbide Corporation. Calendaring of polymeric materials. 3,658,978, 4-25-72, Cl. 264-175.

Ancona, Anthony, to Chandler Evans, Inc. Digital function generator for two independent variables with interpolation. 3,676,655, 7-11-72, Cl. 235-152.000.

Ankra Corporation: See—

Prete, Ernest, Jr., 3,677,195.

Prete, Ernest, Jr., 3,678,542.

Anda Limited: See—

Church, Alan Howard, 3,688,993.

Andalman, Avrum N.: See—

Howard, Lawrence, 3,657,513.

Andalman, Avrum N.; trustee: See—

Howard, Lawrence, 3,657,513.

Anderau, Walter; Oetiker, Alfred; and Deuschel, Werner, to Ciba Limited. Process for crosslinking gelatin with halogenated organic compounds in the presence of basic tertiary amine. 3,634,386, 1-11-72, Cl. 260-117.

Anderegg, Paul; and Graner, Gerhard, to International Standard Electric Corporation. Wrapping machine. 3,649,419, 3-14-72, Cl. 156-567.

Anderegg, Paul; and Graner, Rolf G., to International Standard Electric Corporation. Wrapping machine. 3,679,522, 7-25-72, Cl. 156-477.000.

Anderl, Peter, to Niezoldi & Kramer GmbH. Movie camera with delayed release and scene limiting circuits. 3,692,393, 9-19-72, Cl. 352-175.000.

Anderle, Joseph A., to Levolor Lorentzen, Inc. Inclined-soffit venetian-blind and installation. 3,646,986, 3-7-72, Cl. 160-168.

Andermac: See—

Anderson, Edith T.; and Anderson, Clifford M., 3,648,699.

Andermo, Ingvar, to Institutet For Mikrovagsteknik. Device for measuring the relative movement between an object and the environment of the object. 3,689,157, 9-5-72, Cl. 356-28.000.

Anders, Dietmar, to Berstorff, Hermann Maschinenbau GmbH. Apparatus for granulating thermoplastic materials. 3,685,751, 8-22-72, Cl. 241-256.000.

Anders, Dietmar, to Berstorff, Hermann Maschinenbau GmbH. Extruder worms for extruding synthetic resins. 3,696,913, 10-10-72, Cl. 198-213.000.

Anders, Hans Joachim, to International Telephone and Telegraph Corporation. Brake shoe for spot-type disc brakes. 3,638,764, 2-1-72, Cl. 188-73.1.

Anders, Hans Joachim, to ITT Industries, Inc. Spot-type disc brake shoe. 3,693,764, 9-26-72, Cl. 188-73.100.

Anders, Roland A.: See—

List, William F.; and Anders, Roland A., 3,653,014.

Anders, Walter G.; and Skolmutch, Jon S., to Diebold, Incorporated. Power file leveling device. 3,639,023, 2-1-72, Cl. 312-268.

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Andersen, Clifford W., to Wurlitzer Company, The. Tone balancing element. 3,641,861, 2-15-72, Cl. 84-192.

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Andersen, Niels H.: See—

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Andersen, Robert D. Methods and means for recording and reading magnetic imprints. 3,668,670, 6-6-72, Cl. 340-174.10f.

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Anderson, Albert E.; and Disch, Ellis V. Simulated leather laminate and its preparation. 3,684,637, 8-15-72, Cl. 161-64.000.

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Schlaue, Floyd E.; Anderson, Albert L.; Kilroy, Eugene J., Jr.; and Flicker, Alwyn, 3,665,610.

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Anderson, Amos R., to Packo, Joseph J., mesne. Method for sealing leaks in vessels. 3,634,560, 1-11-72, Cl. 264-36.

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Anderson, Andrew W., to Scandia Packaging Machinery Company. Apparatus for punching holes in heat shrinkable web material. 3,654,829, 4-11-72, Cl. 83-78.

Anderson, Andrew W.; Alexander, James; Leszczynski, Martin E.; and Higgins, Lester A., to Scandia Packaging Machinery Company. Wrapping machine. 3,656,273, 4-18-72, Cl. 53-59.

Anderson, Arthur F., to Trans-Wheel, Inc. Axial piston pump. 3,682,047, 8-8-72, Cl. 91-505.000.

Anderson, Arthur William; and Truett, William Lawrence, to Du Pont de Nemours, E. I., and Company. Olefin polymerization catalyst and process. 3,679,652, 7-25-72, Cl. 260-94.90b.

Anderson, Arvid B., to Bishop Freeman Company. Hand iron. 3,706,146, 12-19-72, Cl. 38-75.000.

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Anderson, Bernard J.; and Schoenborn, William E., to General Electric Company. Turbomachinery rotors. 3,661,475, 5-9-72, Cl. 416-219.

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Wilcox, Thomas L., Jr.; and Jones, Ancil A., 3,642,192.

Anderson, Bror E.: See—

Larson, Leonard G.; Anderson, Bror E.; and Schick, Margery L., 3,694,244.

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Anderson, Bror E.; and Schick, Margery L., to Weber Marking Systems, Inc. Thermographic stencil sheet and method of making an imaged stencil sheet. 3,704,155, 11-28-72, Cl. 117-35.400.

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Desnick, Mandel L.; Willcox, Jesse A.; and Christensen, Jay A., 3,642,411.

Jacobson, William P., 3,656,614.

Talarico, Lawrence J., 3,706,183.

Anderson, Bruce J.; and Noegel, Charles R., to Electronic Design & Services, Inc. Signature counter. 3,702,925, 11-14-72, Cl. 235-98.00r.

Anderson, C. H.; and Griffiths, Colin, to Pullman Incorporated. Vacuum degassing unit. 3,706,449, 12-19-72, Cl. 266-34.00v.

Anderson, Carl C.: See—

Christenson, Roger M.; and Anderson, Carl C., 3,654,213.

Dowbenko, Rostyslaw; and Anderson, Carl C., 3,635,894.

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Anderson, Carl L.: See—

Lamb, John T.; and Anderson, Carl L., 3,673,464.

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Anderson, Carl M.; and Endress, James W., to Carrier Corporation. Emergency shutdown mechanism for centrifugal compressor. 3,700,355, 10-24-72, Cl. 417-33.000.

Anderson, Carl P.; and Hanson, Thomas E., to SCM Corporation. Typewriter ribbon cartridge. 3,643,777, 2-22-72, Cl. 197-151.

Anderson, Carl P., to SCM Corporation. Typewriter ribbon cartridge guide support. 3,643,778, 2-22-72, Cl. 197-151.

Anderson, Carl P.; Kennedy, Charles H.; and Perry, Donald S., to SCM Corporation. Ribbon mechanism for cartridge supported ribbons. 3,643,779, 2-22-72, Cl. 197-151.

Anderson, Carl S.; Bittle, David F.; Veazey, Thomas M.; and Wooten, Robert G., to Monsanto Company. Bead polymerization process and product. 3,642,733, 2-15-72, Cl. 260-80.81.

Anderson, Charles C. Fish and game receptacle. 3,674,188, 7-4-72, Cl. 224-5.00g.

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Anderson, Charles I. Aircraft anti-hijacking structure. 3,658,277, 4-25-72, Cl. 244-1.

Anderson, Charles I. Rotary blade for mulching lawn mower. 3,703,071, 11-21-72, Cl. 56-295.000.

Anderson, Charles M.; and Boling, Harry G., to Stamler, W. R., Corporation. Discrete material handling apparatus. 3,651,923, 3-28-72, Cl. 198-168.

Anderson, Charles M.; and Ratcliff, Edward H., Jr., to Stamler, W. R., Corporation. Variable-stroke car shifting apparatus. 3,696,754, 10-10-72, Cl. 104-162.000.

Anderson, Charles Merton, to Year-A-Round Cab Corporation. Refrigeration and cooling device for shrimp boats. 3,678,697, 7-25-72, Cl. 62-274.000.

Anderson, Clare E.: See—

Buswell, Wallace H., 3,670,751.

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Anderson, Clayton & Co.: See—

Gibson, Paul; Campbell, Robert L., Jr.; and Smith, Guan, 3,637,773.

Sinclair, Stuart W., 3,645,409.

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 Anderson, Dennis G.: See—
 Marion, Donald L.; Anderson, Dennis G.; and Strand, Robert C., 3,639,325.
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 Anderson, Donald E., to Schjeldahl, G. T., Company. Process for coating amorphous selenium. 3,652,330, 3-28-72, Cl. 117-201.
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 Anderson, Donald L., to Amerock Corporation. Oven door latch. 3,646,612, 2-29-72, Cl. 292-200.
 Anderson, Donald R.: See—
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 Oberhofer, Alfred W.; Anderson, Donald R.; and Payne, Charles C., 3,664,870.
 Anderson, Douglas W.; and Chapman, Dave, to Chapman, Dave, Goldsmith & Yomaski, Inc. Method of packaging. 3,690,088, 9-12-72, Cl. 53-29,000.
 Anderson, Douglas West: See—
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 Anderson, Duane B.: See—
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 Anderson, Duane S. Device for transmitting and displaying scores on television and radio receivers. 3,701,946, 10-31-72, Cl. 325-64,000.
 Anderson, Dwayne Roy, 50% to Hayes, George D. Tool holder. 3,647,232, 3-7-72, Cl. 279-68.
 Anderson, Earl R., to Brex Corporation. Sizer conveyor. 3,666,092, 5-30-72, Cl. 209-73.
 Anderson, Earl R., to Brex Corporation. Anti-bridging means for bulk fruit feed supply. 3,707,223, 12-26-72, Cl. 198-185,000.
 Anderson, Edgar L.: See—
 McDonald, Robert L.; and Anderson, Edgar L., 3,694,962.
 Anderson, Edgar L.; and Schneider, Michael L., to Sybron Corporation. Control apparatus for washer-sterilizer. 3,683,944, 8-15-72, Cl. 134-57,000.
 Anderson, Edith T.; and Anderson, Clifford M., to Andermac. Incontinence garment. 3,648,699, 3-14-72, Cl. 128-288.
 Anderson, Edward P.: See—
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 Anderson, Edwin G. Telescopic cover assembly for open bed vehicles and latch assembly for use therewith. 3,640,565, 2-8-72, Cl. 296-137.
 Anderson, Elvin L.; and Graboyes, Harold, to Smith Kline & French Laboratories. Intermediates for preparing acridines. 3,692,834, 9-19-72, Cl. 260-566,000.
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 Crener, Bengt Olof; Anderson, Erik Arne; and Ernlöf, Stig Carl-Oskar, 3,639,939.
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 Anderson, Eugene A. Rotary blade for meat grinder. 3,646,979, 3-7-72, Cl. 146-189.
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 Anderson, Floyd A.: See—
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 Anderson, Forrest Symington, to Anderson Manor Limited. Haulage mechanism for mining machines. 3,684,067, 8-15-72, Cl. 192-4,000.
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 Farr, Gerald; Anderson, Frances M.; and Phillips, Eric Thomas Arthur, 3,652,793.
 Anderson, Francis Maurus: See—
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 Anderson, Fred N., to Cherry Electrical Products Corporation. Axially reciprocal actuator for a sealed switch. 3,678,235, 7-18-72, Cl. 200-168,000.
 Anderson, Fred T., to Gray Manufacturing Company. Reactor apparatus. 3,707,355, 12-26-72, Cl. 23-277,000.
 Anderson, Gene A., to Dow Chemical Company, The. Soil sampling device. 3,696,873, 10-10-72, Cl. 175-20,000.
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 Gray, John; and Anderson, Gene W., 3,639,081.
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 Anderson, George C. Support device for concrete reinforcing bars. 3,673,753, 7-4-72, Cl. 52-685,000.
 Anderson, George de Wenter; and Watts, Ronald E., to Minnesota Mining and Manufacturing Company. Light-sensitive compositions comprising a silver salt of a tetraazaindene. 3,689,270, 9-5-72, Cl. 96-76,000.
 Anderson, George Edward, to RCA Corporation. Kinescope bias arrangement to provide both constant amplitude D. C. restoration pulses and arc discharge protection. 3,647,944, 3-7-72, Cl. 178-5,4.
 Anderson, George F., to AMF Incorporated. Constant ratio throttle control. 3,683,716, 8-15-72, Cl. 74-491,000.
 Anderson, George J.: See—
 Dahms, Ronald H.; and Anderson, George J., 3,637,430.
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 Anderson, George J.; and Dahms, Ronald H., to Monsanto Company. Resole varnish mixture. 3,652,477, 3-28-72, Cl. 260-29,3.
 Anderson, George J.; and Dahms, Ronald H., to Monsanto Company. Resole varnishes prepared from substituted phenols. 3,691,121, 9-12-72, Cl. 260-29,300.
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 Anderson, Gerald R.; and Wann, William C., Jr., to FMC Corporation. Fruit orienter. 3,666,079, 5-30-72, Cl. 198-33,000.
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 Anderson, Glenn A., to Avco Corporation. Method of fabricating a composite superconductive conductor. 3,644,988, 2-29-72, Cl. 29-599.
 Anderson, Glenn A., to Sanders Associates, Inc. Method for preparing and anti-oxidizing, active alloy brazing composition. 3,662,455, 5-16-72, Cl. 29-473,100.
 Anderson, Glenn H.: See—
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 Anderson, Gordon S.: See—
 Kamborian, Jacob S.; Typrowicz, Wladyslaw; and Anderson, Gordon S., 3,668,728.
 Anderson, Greenwood & Co.: See—
 Butler, Henry G.; and Weise, Irvin B., 3,651,903.
 Greenwood, Marvin H.; Slaughter, Lomis, Jr.; and Polydoros, George N., 3,651,711.
 Weise, Irvin B., 3,664,362.
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 Anderson, H. C.: See—
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 Anderson, H. C., mesne: See—
 Wolff, Per; and Larsen, Hans-Ole, 3,637,539.
 Anderson, Harold; Cain, Jerry Blanchard; and Doggett, John G., Jr., to Motorola, Inc. Combined scan and track antennas. 3,696,432, 10-3-72, Cl. 343-761,000.
 Anderson, Harold C., to Litton Systems, Inc. Microwave power density meter. 3,691,459, 9-12-72, Cl. 324-95,000.
 Anderson, Harold C.; and Graff, David F., to Litton Systems, Inc. Microwave generating apparatus including spurious signal suppression means. 3,697,804, 10-10-72, Cl. 315-105,000.
 Anderson, Harold E., to Mr. Culloch Corporation. Heat seal for fuel injection nozzles. 3,695,235, 10-3-72, Cl. 123-32,000.
 Anderson, Harold Francis: See—
 Gackstetter, Henry Clinton; Anderson, Harold Francis; Shove, Gordon William; and Morin, Louis George, 3,671,314.
 Anderson, Harold, Jr. Visual aid for trailer hitch. 3,702,029, 11-7-72, Cl. 33-246,000.
 Anderson, Harold M., to Xerox Corporation. Magnetic recording head which accurately defines the width of the recording track. 3,668,332, 6-6-72, Cl. 179-100,200.
 Anderson, Harold Peter; and Fenton, Francis Michael, to Bell Telephone Laboratories, Incorporated. Key telephone system call signaling and station set data transfer arrangement. 3,701,854, 10-31-72, Cl. 179-18,000.
 Anderson, Harry T., to Swift & Company. Water treatment process. 3,651,189, 3-21-72, Cl. 204-147.

- Anderson, Harry T., to Swift & Company. Electrolytic removal of greasy matter from aqueous wastes. 3,673,065, 6-27-72, Cl. 204-149,000.
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 Anderson, Howard H.; Moyer, Rudolph H.; Sibbett, Donald J.; and Sutherland, David C., to Geomet, Incorporated. System and method of air pollution monitoring utilizing chemiluminescence reactions. 3,659,100, 4-25-72, Cl. 250-71,000.
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 Swan, William O., Jr.; and Krupp, David M., 3,651,338.
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 Gaudry, Paul E.; Gaudry, Edouard; Descaries, Raymond; and Anderson, James, 3,673,628.
 Anderson, James D.: See—
 Cheh, Ernest L.; Bowden, Wade R., Jr.; and Anderson, James D., 3,661,029.
 Anderson, James D. Hide removal apparatus and method. 3,683,455, 8-15-72, Cl. 17-50.
 Anderson, James H.; and Anderson, James H., Jr., to Coupling Corporation of America. Torque transmitting coupling. 3,646,777, 3-7-72, Cl. 64-15.
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 Anderson, James H., Jr.: See—
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 Anderson, James R., to Research, Incorporated. Snow tire with retractable studs. 3,672,421, 6-27-72, Cl. 152-208,000.
 Anderson, Jerrold L.; Haines, Robert C., Jr.; and Powell, Thomas C., to National Cash Register Company, The. Minute capsules and their manufacture, en masse. 3,694,372, 9-26-72, Cl. 252-316,000.
 Anderson, Jimmy J. Valve stem extractor-insertor. 3,644,982, 2-29-72, Cl. 29-213.
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 Anderson, John E. Fluid actuated toy track system with constant flow valve. 3,697,071, 10-10-72, Cl. 273-86,000.
 Anderson, John H., Jr., to Intercontinental Dynamics Corporation. Variable time constant altitude rate device. 3,683,690, 8-15-72, Cl. 73-179,000.
 Anderson, John Kenneth, to British Insulated Callender's Cables Limited. Electrical insulating oil, and to electrical apparatus incorporating them. 3,668,128, 6-6-72, Cl. 252-63,000.
 Anderson, John M., to General Electric Company. Current transformers with improved coaxial feed. 3,701,003, 10-24-72, Cl. 323-6,000.
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 Adams, Ralph C.; and Anderson, John R., 3,632,506.
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 Anderson, John W.: See—
 Harbur, Delbert R.; Anderson, John W.; and Money, Richard K., 3,660,075.
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- Anderson, William G. Invalid lifting apparatus. 3,677,424, 7-18-72, Cl. 214-77.000.
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- Andersson, Karl Ivan. Exchangeable grease gun tip. 3,669,220, 6-13-72, Cl. 184-105.00c.
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- Ando, Masao, to Chisso Corporation. Differential and/or discontinuous heating along pipelines by heat-generating pipes utilizing skin-effect current. 3,632,976, 1-4-72, Cl. 219-301.
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Budich, Wolfgang; Theissen, Hans; Schaefer, Hans; and Andree, Walter, 3,703,063.
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Wolnak, Bernard; Andreen, Brian; and Wen, Chin-Yung, 3,649,459.
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Gridunov, Ivan Tikhonovich; Unkovsky, Boris Vladimirovich; Donskaya, Marina Maiorovna; Andreev, Leonid Vladimirovich; Korolkova, Galina Sergeevna; Ignatova, Ljudmila Alexandrovna; and Grigorian, Alexandr Grigorievich, 3,681,278.
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Jorgensen, Jorgen; Iversen, Nis B.; and Andresen, Jens N., 3,636,287.
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Aunstrup, Knud; Andresen, Otto; and Outtrup, Helle, 3,674,643.
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Chi, Tzu-Chiang, 3,701,522.
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Gomes, Franklin P.; and Andrews, Donald K., 3,645,073.
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Ludeman, Edwin H., 3,643,983.
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United States of America, National Aeronautics and Space Administration, 3,669,393.
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- Andrews, Willard H. Picture frame attachment. 3,680,239, 8-1-72, Cl. 40-152.100.
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Honnert, Lewis R.; Andersen, Harry W.; and Lindstrom, Eddie G., 3,671,511.
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Lagerwey, Johannes; Ijlstra, Hendrik J.; and Andriessse, George F. J., 3,672,472.
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Samodav, Evgeny Timofeevich; Verchenko, Vasily Romanovich; Gorjunov, Vladimir Ivanovich; Andrikanis, Vladimir Konstantinovich; Ilichev, Valery Alexandrovich; Gavrin, Mikhail Grigorievich; and Binkou, Georgy Aronovich, 3,689,351.
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- Andruchi, Roman. Method of illuminating preselected areas of a display. 3,675,997, 7-11-72, Cl. 353-28.000.
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- Andrus, Paul G., to Xerox Corporation. Development apparatus. 3,696,785, 10-10-72, Cl. 118-637.000.
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Cau, Pasqualino; and Anelli, Ermes, 3,660,224.
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Minero, Richard H.; Anello, Anthony J.; Furey, Robert G.; and Palounek, Lubos R., 3,660,646.
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Haney, Ralph D.; and Aneshansley, Nicholas E., 3,691,538.
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Cahn, Robert P.; and Angier, Derek J., 3,641,183.
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Koschatzky, Bruno; Angioletti, Attilio E.; and Madonini, Nino, 3,667,203.
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Bodnar, Stephen John; McHargue, Chuck Linwell; and Anglin, Larn Carnell, Jr., 3,642,759.
- Anglo Paper Products Limited: See—
Logan, Kenneth C., 3,683,983.
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Philipe, Oscar, 3,681,096.
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Taylor, Richard Francis, 3,695,724.
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- Angold, Raymond H. Cooking food under pressure. 3,649,290, 3-14-72, Cl. 99-1.
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Costello, Bernard J., 3,655,173.
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Ball, Eric, 3,684,602.
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Katz, Edward; Ehrenthal, Irving; and Scallet, Barrett L., 3,684,574.
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- Watz, Martin C., 3,695,845.
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Malina, Jay T.; and Tress, Mitchell, 3,638,220.
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Chegolin, Petr Mikhailovich; Rimsky, Gennady Vasilievich; Leonovich, Eduard Nikolaevich; Milner, Fridrikh Grigorievich; Samuilov, Nikolai Nikolaevich; and Anishkevich, Nikolai Nikolaevich, 3,651,309.
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Kleffmann, Gunter, 3,688,979.
Rethmeier, Gerhard, 3,682,377.
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Vernon, John T.; and Ankrom, Albert M., 3,650,520.
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Pharriss, Bruce B.; and Anliker, Max, 3,675,647.
Pharriss, Bruce B.; and Anliker, Max, 3,675,648.
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Maeder, Erwin; Anliker, Rudolf; Schmid, Karl; and Siegrist, Adolf Emil, 3,650,973.
Maeder, Erwin; Anliker, Rudolf; Schmid, Karl; and Siegrist, Adolf Emil, 3,666,683.
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Berghof, Ernest H., 3,632,950.
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Gannett, James R.; Annin, Gordon D.; and Gjerding, Bradley K., 3,668,622.
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Craig, Robert D.; Evans, Richard O.; and Grant, Gerald F., 3,699,734.
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Tanaka, Akira; Hattori, Tsuyoshi; Anno, Hirotomo; and Kawahara, Testuyo, 3,673,283.
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Yaida, Koichi; and Ano, Shizuya, 3,639,905.
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Malkowski, Leonard R.; and Bielak, Sigmund H., 3,639,225.
Williams, Lynn A., 3,637,481.
Williams, Lynn A., 3,654,122.
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Piretti, Giancarlo; and Castelli, Leonida, 3,705,744.
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Austin, Leonard H., 3,675,390.
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Bo, Carlo, 3,664,413.
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Kundler, Walter; and Hingst, Gerd, 3,660,743.
Kundler, Walter; and Hingst, Gerd, 3,670,227.
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Kindlimann, Lynn E.; and Ansell, George S., 3,650,729.
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Nyberg, Sture, 3,683,513.
Sturzing, Oskar, 3,702,900.
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Sorensen, Leif Erik, 3,678,684.
- Anstalt fur Patentedienst: See—
Fleissner, Heinz; and Fleissner, Gerold, 3,685,322.
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Fluhmann, Werner; and Saxer, Walter, 3,660,251.
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Kaiser, Donald W., 3,699,167.
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Ayranto, Roy O., 3,657,869.
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Finch, Lester M.; and Anthony, Andy J., 3,666,624.
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Loup, Jean-Pierre Olivier; Gutknecht, Jacques Emile; and Anthony, Anne-Marie, nee Barbier, 3,676,771.
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Sable, Chester A., 3,636,853.
- Anthony, John B.: See—
Basham, Edgar W.; Knapman, John E.; Pollard, Gordon D.; Anthony, John B.; and Munro, Alan C., 3,642,289.
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- Anthony, William Crawford, to Upjohn Company, The. Compounds and process. 3,644,364, 2-22-72, Cl. 260-256.4.
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- Anthony's Manufacturing Company, Inc.: See—
Stromquist, Michael E., 3,655,939.
- Anti-Pollution Incinerators: See—
Sheffield, Raymond A., 3,688,709.
- Anti-Pollution Systems, Inc.: See—
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Greenberg, Jacob, 3,647,358.
- Antinori, Jack A.: See—
Mauter, David J.; and Antinori, Jack A., 3,650,677.
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Parfomak, Walter; and Antipas, George, 3,659,215.
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- Antkiw, Stephen, to Schlumberger Technology Corporation. Borehole fluid density logging tool with non-turbulent measuring chamber flow. 3,688,115, 8-29-72, Cl. 250-71.50r.
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Knechtges, Donald P.; and Antlfinger, George J., 3,702,315.
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Pountney, Laurence Howard; Amsbury, Clifford Roy; and Antliff, Stanley John, 3,657,488.
- Antliff, Stanley John: See—
Pountney, Laurence Howard; Amsbury, Clifford Roy; and Antliff, Stanley John, 3,657,488.
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Bedjai, Claude A.; and Antoine, Pierre N., 3,688,268.
- Antoma (Hairdressing) Company Limited: See—
Robinson, Thomas, 3,665,275.
- Anton, Eckhard: See—
Schlechtriem, Werner; and Anton, Eckhard, 3,631,887.
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- Anton, Franke, to Sylvania Electric Products, Inc. Auxiliary lighting system for arc lamp. 3,699,382, 10-17-72, Cl. 315-92.000.
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Schwarzkopf, Anton, 3,631,805.
- Anton, Wink; and Williams, Robert J., to Cadillac Products, Inc. Manually openable leakproof package construction. 3,687,358, 8-29-72, Cl. 229-66.000.
- Anton-Tay, Fernando. Therapeutic process using melatonin. 3,642,994, 2-15-72, Cl. 424-274.
- Antonelli, Joseph A.; and Boden, Herbert, to Du Pont de Nemours, E. I., and Company. Self heating lather. 3,632,516, 1-4-72, Cl. 252-96.
- Antonen, Robert C., to Dow Corning Corporation. Acetoxy functional copolymers composed of monomethylsiloxane units and diphenylsiloxane units. 3,632,793, 1-4-72, Cl. 260-46.5.
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- Antonen, Robert C., to Dow Corning Corporation. Fast cure organosiloxane resins and method for preparing same. 3,661,845, 5-9-72, Cl. 260-46.5.
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- Antonetti, Vincent W.; Maling, George C., Jr.; Pascuzzo, Albert L.; and Wise, Russell E., to International Business Machines Corporation. Acoustically improved blower package. 3,688,867, 9-5-72, Cl. 181-33.00k.
- Antonie, Ronald L., to Autotrol Corporation. Apparatus for treating sewage. 3,704,783, 12-5-72, Cl. 210-151.000.
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Stebakov, Emelian Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav

Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.
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 Wall, Leo A.; and Antonucci, Joseph M., 3,655,785.
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 Zeile, George D., Jr.; and Couch, Robert O., 3,642,308.
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 Martin, Joseph L., 3,677,303.
 Anza Pacific Corporation: See—
 Keyston, David H., 3,653,629.
 Anzai, Masao: See—
 Mizutani, Takashi; Anzai, Masao; and Ebihara, Akio, 3,647,503.
 Anzai, Shiro: See—
 Furukawa, Junji; Saegusa, Takeo; Onishi, Akira; Ishikawa, Takao; Anzai, Shiro; Irako, Koichi; Narumiya, Tsuneaki; and Ishizuka, Yuzo, 3,649,607.
 Onishi, Akira; Anzai, Shiro; and Ishii, Motoki, 3,639,520.
 Onishi, Akira; Anzai, Shiro; Irako, Koichi; Fujio, Ryota; Hayakawa, Yoshihiro; Kojima, Minoru; and Kawamoto, Hiroshi, 3,644,314.
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 Lorenzen, Walter C., 3,677,474.
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 Carriel, Jonathan T.; and Anzenberger, Joseph F., 3,660,446.
 Anzuino, Giuseppe; and Robbins, Clarence Ralph, to Colgate-Palmolive Company. Treatment of keratinous substrates with a reducing agent and thereafter an oxidizing solution of a vinyl monomer. 3,633,591, 1-11-72, Cl. 132-7.
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 Hasegawa, Katsumi; Ando, Akio; Okada, Morio; Kohno, Yukio; Aoi, Norihiro; Kamo, Tadasu; Hikita, Shinito; and Fukuda, Atsushi, 3,650,486.
 Aoike, Nanjo: See—
 Nomura, Osamu; Fujii, Nobuhiro; Aoike, Nanjo; and Kamiya, Fumio, 3,649,869.
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 Kosaka, Kenzo; Tsunewaki, Masami; Tanaka, Hideo; and Aoki, Akira, 3,702,055.
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 Oishi, Hiroshi; Aoki, Fumio; Kawano, Shigeru; Muramatsu, Hitoshi; and Saeki, Masahiro, 3,696,383.
 Aoki, Hachiro: See—
 Isobe, Hiroshi; Aoki, Hachiro; and Tanaka, Noritoshi, 3,640,258.
 Aoki, Hidekatsu: See—
 Terai, Akio; Kawamura, Eiji; Fukumoto, Hisashi; and Aoki, Hidekatsu, 3,696,879.
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 Tanabe, Takashi; Aoki, Hiroshi; Murakami, Hitoshi; and Matsumoto, Fujio, 3,683,060.
 Aoki, Hisashi: See—
 Ishii, Kiyofumi; Toda, Jun; Aoki, Hisashi; and Wakabayashi, Hideo, 3,653,923.
 Ishii, Kiyofumi; Toda, Jun; Aoki, Hisashi; and Kuwada, Yutaka, 3,660,378.
 Marumoto, Ryuji; Yoshioka, Yoshio; Aoki, Hisashi; and Toda, Jun, 3,644,331.
 Marumoto, Ryuji; Yoshioka, Yoshio; Aoki, Hisashi; and Toda, Jun, 3,690,900.
 Yoshioka, Yoshio; Imai, Kinichi; Aoki, Hisashi; and Toda, Jun, 3,682,887.
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 Shigeta, Masayuki; and Aoki, Katsumi, 3,641,832.

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 Kiyomiya, Hiromoto; Fukumiya, Yukio; Aoki, Mithuzi; and Mama, Hiromichi, 3,703,611.
 Aoki, Shinichi: See—
 Takeuchi, Koichi; Okada, Takeo; and Aoki, Shinichi, 3,668,350.
 Aoki, Takashi: See—
 Sato, Kazuo; and Aoki, Takashi, 3,701,151.
 Aoki, Toshikazu: See—
 Okada, Hiroshi; Osakada, Atsushi; Minami, Satoyuki; Aoki, Toshikazu; Hisamori, Tetsuo; Koyanagi, Hironobu; and Otsuka, Hiromi, 3,692,602.
 Takahashi, Toshimasa; Takaichi, Moriaki; Makino, Hiroshi; and Aoki, Toshikazu, 3,658,730.
 Aoki, Tsutomu: See—
 Nagata, Wataru; Terasawa, Tadao; and Aoki, Tsutomu, 3,661,999.
 Aoki, Yasuo, to Kabushiki Kaisha Komatsu Seisakusho (Komatsu Ltd.). High pressure gear pump. 3,664,777, 5-23-72, Cl. 418-131.
 Aomic Power Development Associates, Inc.: See—
 Warberg, Henrik S., 3,679,547.
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 Nakamura, Yasushi; Agatsuma, Kunio; Tanaka, Yoshihiro; and Aono, Shunji, 3,658,829.
 Suzuki, Yoshio; Aono, Shunji; and Fukushima, Hideaki, 3,666,774.
 Aono, Yukinaga: See—
 Yamagishi, Akio; Ishida, Takaharu; Aono, Yukinaga; and Konodo, Shigekatsu, 3,636,086.
 Aonuma, Tatsuo: See—
 Toei, Ryozo; Aonuma, Tatsuo; Watanabe, Hiroharu; and Yuasa, Toshizumi, 3,661,071.
 Yokotsuka, Tamotsu; Aonuma, Tatsuo; Mogi, Koya; Fukushima, Danji; Yasuda, Atsushi; Watanabe, Hiroharu; Tsukada, Naoshi; and Arai, Akira, 3,647,484.
 Aoshima, Atsushi: See—
 Honda, Makoto; Kubota, Yasuhiro; Aoshima, Atsushi; Hisamatsu, Tokuchichi; and Ueda, Minoru, 3,666,632.
 Aoun, Fred: See—
 Bedi, Ram Dev; and Aoun, Fred, 3,634,217.
 Aoun, Fred, to M & T Chemicals Inc. Novel chromium plating compositions and processes. 3,654,101, 4-4-72, Cl. 204-51.
 Aoyagi, Katsunosuke: See—
 Akai, Shin-ichi; and Aoyagi, Katsunosuke, 3,690,846.
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 Takayama, Yuzi; Ichimura, Yutaka; Minmami, Shunsuke; Aoyagi, Takanobu; and Takeda, Fumio, 3,703,491.
 Aoyama, Noritoshi: See—
 Matsubara, Toru; Kozuka, Tadashi; Shinomiya, Hiroaki; and Aoyama, Noritoshi, 3,636,902.
 Aoyama, Ryozo; and Koiwai, Akira, to Kabushiki Kaisha Komatsu Seisakusho (Komatsu Ltd.). Controlling system for positioning a swash plate of a multiple piston rotary fluid pump or motor. 3,633,464, 1-11-72, Cl. 91-505.
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 Apa, Armand Samuel: See—
 Ziegler, George William, Jr.; Apa, Armand Samuel; and Heffner, Donald Elwood, 3,654,793.
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 Connally, Douglas R., 3,681,686.
 APECO Corporation: See—
 Newcomb, Harley M., 3,653,757.
 Apelstrand, Lennart; Goteborg, Fagerlund; and Jar, Stig. Ship's loading ramp. 3,687,308, 8-29-72, Cl. 214-15,00r.
 Apex Chemical Co., Inc.: See—
 Endler, Abraham S., 3,644,597.
 Apex Electrophysics, Inc.: See—
 Tapert, Thomas J.; and Current, James H., 3,665,798.
 Apfel, Joseph H.; and Gelber, Robert M., to Optical Coating Laboratory, Inc. Multi-layer filter with metal dielectric period. 3,649,359, 3-14-72, Cl. 117-333.
 Apfel, Joseph H.; and Gelber, Robert M., to Optical Coating Laboratory, Inc. Filter with neutral transmitting multilayer coating having asymmetric reflectance. 3,679,291, 7-25-72, Cl. 350-164,000.
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 Apice, Pawquale J.: See—
 Cheema, Zafarullah K.; Apice, Pawquale J.; and Little, Edwin D., 3,692,845.
 Apicella, Anthony M., Jr.; and Franks, John T., Jr., to Goodyear Aerospace Corporation. Polarity phasing of strap line for higher bit packing density of plated wire. 3,698,011, 10-10-72, Cl. 340-174,0dc.
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 Apikos, Dominic, to Atlantic Richfield Company. Strippable wax coating compositions. 3,660,334, 5-2-72, Cl. 260-28.5.
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 Apitz, Siegfried, to International Standard Electric Corporation. Tape tension checking device for cassette recorders. 3,677,496, 7-18-72, Cl. 242-199,000.
 APL Corporation: See—
 Pearl, Curt Charles; and Poland, Sidney, 3,680,445.
 Reiss, Oscar, 3,667,887.
 APM Corporation: See—
 Dimitry, Edward A., 3,668,938.
 Apod Corporation: See—
 Pantzer, Myron; and Feier, Milton, 3,698,852.
 Apollo Chemical Corporation: See—
 Kukin, Ira, 3,692,503.
 Apollon Music Industrial Corporation: See—
 Naito, Nobuatsu; Nakajima, Kasuhiko; and Watanabe, Yoshio, 3,638,874.
 Aponick, Anthony A., Jr.; and Gottling, James G., to Massachusetts Institute of Technology. Solid state device. 3,680,204, 8-1-72, Cl. 29-571,000.
 Aposporos, Nick J., to Vemitron Corporation. Ceramic package for an integrated circuit. 3,665,592, 5-30-72, Cl. 29-588,000.
 Apostolico, Martin A.: See—
 Walsh, Robert R.; and Apostolico, Martin A., 3,659,949.
 Apostolov, Kostadin. Concentration and purification of influenza viruses. 3,632,745, 1-4-72, Cl. 424-89.
 Apotheker, David, to Du Pont de Nemours, E. I., and Company. Metal phosphinodithioates and bis (phosphinothioyl) disulfides as vulcanization accelerators. 3,635,920, 1-18-72, Cl. 260-79.5.
 Apparatbau Aktiengesellschaft: See—
 Schworer, Emil, 3,669,041.
 Apparatfabrik A.G. Huttwil: See—
 Horak, Heinz, 3,669,154.
 Appareils de Precision et de Controle 'APC': See—
 Gineste, Robert Maurice, 3,648,032.
 Appel, Arthur V.; Davis, John S.; and Pontarelli, Donald E., to Bliss & Laughlin Industries, Incorporated, mesne. Method for making encoded cards. 3,694,285, 9-26-72, Cl. 156-179,000.
 Appel, David W., to Kimberly-Clark Corporation. Contracting pre-slice flow distributor for papermaking machine headbox. 3,652,392, 3-28-72, Cl. 162-343.
 Appel, Karl-Richard: See—
 Ost, Walter; Klaus, Thomas; Dietrich, Jerchel; and Appel, Karl-Richard, 3,696,106.
 Appel, Sherman P., to Teletype Corporation. Droplet synchronization for electrostatic printing. 3,698,002, 10-10-72, Cl. 346-1,000.

Appelberg, Gustaf T., to Fairfield County Marine Inc. Tide indicator clock. 3,703,804, 11-28-72, Cl. 58-3,000.
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 Appelo, Hendrik C., to Westinghouse Electric Corporation. Chopper control apparatus having a common control path. 3,707,659, 12-26-72, Cl. 318-2,000.
 Appels, Johannes Arnoldus: See—
 Tulp, Theodorus Joannes; Appels, Johannes Arnoldus; and Kooi, Else, 3,678,347.
 Appelt, Daren Ray, to Texas Instruments, Incorporated. MOS dynamic memory. 3,705,392, 12-5-72, Cl. 340-173,00r.
 Appelt, Gunther, to Siemens Aktiengesellschaft. X-ray tube with rotary anodes. 3,652,890, 3-28-72, Cl. 313-60.
 Appelt, Weldon F. Aerial pipeline system. 3,677,189, 7-18-72, Cl. 104-124,000.
 Appenzeller, Valentin: See—
 Takriti, Nassir; Quoos, Kurt; Leifeld, Ferdinand; and Appenzeller, Valentin, 3,683,649.
 Appenzeller, Valentin, to Kusters, Eduard, Maschinenfrik. Work pressure rolling assembly. 3,703,862, 11-28-72, Cl. 100-162,00b.
 Apperson, Charles H.: See—
 Buster, James R.; and Apperson, Charles H., 3,634,236.
 Appiani, Edoardo; and Felici, Alberto, to Pirelli Societa per Azioni Centro Pirelli. Deformable casing joining cable ends. 3,678,175, 7-18-72, Cl. 174-92,000.
 Apple, Joseph H., to AMF Incorporated. Portable photo-responsive intrusion alarm. 3,636,542, 1-18-72, Cl. 340-258.
 Appleby, Paul E.: See—
 Woodhall, Edwin S.; Appleby, Paul E.; and Touchette, John W., 3,698,987.
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- Huguet, Alain, 3,650,660.
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- Walker, Harold L., 3,640,630.
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- Toth, Charles, 3,677,742.
- Applied Biological Sciences Laboratory, Inc.: *See—*
- Michaelson, Joseph B., 3,646,139.
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- Meidan, Reuven, 3,680,045.
- Ophir, David, 3,659,283.
- Applied Dynamics, Inc.: *See—*
- Gilbert, Edward O., 3,633,165.
- Applied Laser Technology Incorporated: *See—*
- Barker, Ronald C., 3,668,795.
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- Means, William A., 3,665,502.
- Applied Photo Sciences, Inc., *mesne: See—*
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- Allard, Gordon H., 3,635,595.
- Buys, Pieter, 3,677,518.
- Cattanach, Hamish A. G., 3,679,328.
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- Sessody, Donald W., 3,700,227.
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- Dahlquist, Ralph L.; and Jones, James L., 3,685,911.
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- Bhuta, Pravin G.; and Aprahamian, Robert, 3,685,008.
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- Shore, David Teignmouth; and Starkie, Granville Lewis, 3,700,468.
- Wright, Felix William, 3,690,373.
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- Giltzow, James Hunter, 3,690,014.
- Aqua Therm Products Corporation: *See—*
- Tobinick, Sidney; and Semenoff, Arnold, 3,702,484.
- Aqua Treatment Industries, Inc.: *See—*
- Feuer, Robert, 3,703,961.
- Aqua-Chem, Inc.: *See—*
- Cleaver, John C., 3,693,598.
- Craig, Glenn D., 3,638,621.
- Goeldner, Richard W., 3,637,330.
- Turecek, Joseph L.; Craig, Glenn D.; and Fueling, David T., 3,685,364.
- Aqua-Chem, Inc., *mesne: See—*
- Goeldner, Richard W., 3,666,109.
- Aqua-Genetics Inc.: *See—*
- McPherson, Bill N., 3,691,994.
- Aqua-Marine Mfg., Limited: *See—*
- Christie, Colin McMaster, 3,700,002.
- Aqua-Mist, Incorporated: *See—*
- Morrow, William B., 3,635,210.
- Aqua-Tech, Inc.: *See—*
- Niederer, Otto C., 3,638,439.
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- Perry, Leo F.; and Puerner, Gale N., 3,633,623.
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- Aquaria, Inc.: *See—*
- Louis, Anthony, 3,676,665.
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- Meyer, Carl R., 3,697,067.
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- Himmele, Walter; Aquila, Werner; and Prinz, Richard, 3,649,672.
- Aquino, Frank J.: *See—*
- Petix, Robert F.; Aquino, Joseph A.; and Aquino, Frank J., 3,650,224.
- Aquino, Joseph A.: *See—*
- Petix, Robert F.; Aquino, Joseph A.; and Aquino, Frank J., 3,650,224.
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- Mazelsky, Bernard, 3,635,314.
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- Yokotsuka, Tamotsu; Aonuma, Tatsuo; Mogi, Koya; Fukushima, Danji; Yasuda, Atsushi; Watanabe, Hiroharu; Tsukada, Naoshi; and Arai, Akira, 3,647,484.
- Arai, Choji: *See—*
- Yasuda, Hiroyuki; and Arai, Choji, 3,651,822.
- Yasuda, Hiroyuki; and Arai, Choji, 3,677,274.
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- Kurokawa, Junji; Arai, Fumiaki; and Usui, Noriyuki, 3,674,474.
- Shimizu, Sakae; Arai, Fumiaki; and Kurotori, Tuneo, 3,639,122.
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- Ito, Shigehiko; and Arai, Hiroshi, 3,651,389.
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- Ogawa, Masao; Enjoji, Teruyuki; and Arai, Humio, 3,640,914.
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- Ichiki, Toshinobu; Okuda, Hironori; and Arai, Keiji, 3,643,118.
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- Kikuchi, Tomio; and Arai, Kiyoyuki, 3,636,850.
- Kikuchi, Tomio; and Arai, Kiyoyuki, 3,641,902.
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- Hirata, Hiroshi; and Arai, Masanao, 3,669,862.
- Arai, Masatoshi: *See—*
- Ishibashi, Keijiro; Okaniwa, Tokio; Hattori, Atsushi; and Arai, Masatoshi, 3,702,805.
- Arai, Risaburo: *See—*
- Kamimura, Masato; Arai, Risaburo; and Fukui, Saburo, 3,689,819.
- Arai, Sadao: *See—*
- Ito, Koji; Arai, Sadao; and Tsuchiyama, Nobuo, 3,658,947.
- Arai, Sinji: *See—*
- Saito, Nagao; Kuji, Yoichi; and Arai, Sinji, 3,654,420.
- Arai, Sumio: *See—*
- Hayashi, Noburo; Katsumi, Mamoru; Ogata, Yuzuru; Arai, Sumio; Kurita, Yoshiaki; and Inamori, Yoshihiro, 3,639,468.
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- Fujiwara, Hirotomo; and Arai, Takuya, 3,648,944.
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- Kuga, Mutsuo; Mashimo, Takeshi; Arai, Teruo; and Yano, Yoshihiko, 3,632,728.
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- Arai, Tohru: *See—*
- Komatsu, Noboru; Arai, Tohru; and Mizutani, Masayoshi, 3,671,297.
- Kusunoki, Kaneyoshi; Asakura, Tatsumi; Nakakawa, Masahiro; Komatsu, Noboru; and Arai, Tohru, 3,680,626.
- Arai, Tomio: *See—*
- Sugano, Seiroku; Arai, Tomio; Hayami, Seinoshin; Watanabe, Sadao; Fujishiro, Shigeru; and Ono, Takeo, 3,689,372.
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- Arikawa, Masayasu; Godai, Tomokazu; Arai, Toshio; Hironosuke, Kada; and Akihiko, Iochi, 3,679,866.
- Arai, Toshiyuki: *See—*
- Tanaka, Hiroshi; and Arai, Toshiyuki, 3,679,296.
- Arai, Yasusuke: *See—*
- Ito, Fukuzo; Sekine, Masaoki; and Arai, Yasusuke, 3,706,422.
- Arakawa, Hideo: *See—*
- Hayashi, Yasutaka; and Arakawa, Hideo, 3,695,023.
- Arakawa, Mothohiko: *See—*
- Watanabe, Shozo; Ooka, Takayuki; Takemura, Susumu; and Arakawa, Mothohiko, 3,653,981.
- Arakawa, Osamu: *See—*
- Nabae, Akira; Arai, Mitsuru; Arakawa, Osamu; and Sugiyama, Sadao, 3,683,138.
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- Kurihara, Sumio; Araki, Kazumi; Ueda, Hiroyuki; and Ikumo, Masahiko, 3,632,474.
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- Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Araki, Kazumi, 3,642,579.
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- Gotohda, Masao; Araki, Kunio; Imamura, Shigeoshi; and Shibabe, Sadami, 3,634,218.
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- Washio, Shigeaki; and Araki, Shunji, 3,652,623.
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- Matsuda, Hitoshi; Hayashi, Hideaki; Araki, Tetsuro; and Kooa, Shinichi, 3,689,079.
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- Lee, Robert L., 3,643,332.
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- Arasaki, Seitetsu: *See—*
- Yamamoto, Hisao; Inaba, Shigeo; Arasaki, Seitetsu; Maruyama, Isamu; Takahashi, Kei; Saito, Chiharu; and Sakai, Shigeru, 3,651,230.
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- Takahashi, Akira; Arata, Akimasa; and Okawara, Yoshimi, 3,659,832.

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Philbrick, Richard W.; and Arazi, Efraim R., 3,659,494.
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Glaesener, Ernest, 3,704,861.
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Hellerich, Walter, 3,636,675.
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Packman, Elias W., 3,679,583.
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Hix, Charles M., Jr., 3,675,427.
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Henderson, R., 3,659,071.
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Maniaci, Philip J.; and McKinsey, Byron E., 3,693,486.
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Rauner, Frederick J.; Arcesi, Joseph A.; and Guild, John R., 3,647,443.
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Fieser, Louis F.; Archers, Sydney; and Lorenz, Roman R., 3,636,119.
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Albright, Donald R.; Archibald, James B.; and Barton, Sterling C., 3,652,881.
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Winn, James B., Jr., 3,674,600.
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Thom, Wenzel W., 3,670,470.
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Deeds, Douglas; and Rosengrant, Barry L., 3,655,253.
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Prusinski, Richard C.; Fermani, Marcello; Torcolacci, Attilio; and Fermani, Luigi, 3,679,529.
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- Bourseau, Robert I., 3,660,918.
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- Arcilesi, Donald Allan: See—
Kardos, Otto; Arcilesi, Donald Allan; Tomson, Arthur James; and Valayil, Sylvester Paul, 3,682,788.
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De Lisio, Michael P.; and Clement, Robert L., 3,695,004.
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Purdy, David L.; Nyce, Andrew C.; and Forscher, Frederick, 3,661,653.
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Rohrs, Marvin K.; Neary, Robert J.; Rosenberg, Robert B.; Kardas, Alan; and Staats, William R., 3,695,250.
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Abromavage, John C.; and George, James F., 3,638,641.
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Thomas, Royal David, Jr.; and Norcross, James E., 3,696,228.
- Arctec, Incorporated: See—
Edwards, Roderick Y., Jr.; and Benze, David L., 3,691,781.
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Skime, Roger H., 3,690,394.
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Bayha, Jack E., 3,655,186.
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Meyncke, Andrew Robert; and Arday, Eugene, 3,633,472.
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Winsler, Robert J.; and Richter, Frederic A., 3,673,735.
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Aleck, Benjamin J., 3,655,085.
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Porter, Robert B.; Ardelt, Clarence A.; and Storck, Robert C., 3,700,081.
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Jordan, Leslie H.; and Arden, John, 3,639,711.
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Everett, Samuel R.; Shear, Wayne G.; and Ardila, Jorge E., 3,636,336.
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Kastler, Alfred; Arditi, Maurice; and Cerez, Pierre, 3,667,066.
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Engel, Harry C.; and Ardolino, Edward J., 3,661,683.
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Axelsson, Sabud, 3,640,244.
- Engvoll, Sverre, 3,669,805.
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Wegerich, Anton; Arend, Wolfgang; Himmelhan, Emil; and Wittwer, Arnold, 3,657,315.
- Arendt, John Harry: See—
Grundschober, Friedrich; and Arendt, John Harry, 3,681,284.
- Arens, Alfred: See—
Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, 3,634,196.
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- Arens Controls, Inc.: See—
Norton, Calhoun, 3,651,779.
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Judin, Herbert, 3,650,187.
- Judin, Herbert, 3,656,832.
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Grassetti, Davide R.; and Murray, John F., Jr., 3,698,866.
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Yard, William James, 3,638,579.
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Speitel, Rene; and Hegnauer, Max R., 3,657,381.
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Presley, C. Travis; and Argabright, Perry A., 3,684,011.
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- Argay, Rudolf: See—
Kangle, Purushottam Janardan; Ramanathan, Visvanathan; and Argay, Rudolf, 3,676,051.
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- Argentina, Giltan Michael: See—
Baba, Paul D.; and Argentina, Giltan Michael, 3,644,207.
- Smit, Jan; Baba, Paul David; and Argentina, Giltan Michael, 3,694,361.
- Argento, Benny J.: See—
Rick, Edward A.; McKeon, James E.; Fitton, Peter; and Argento, Benny J., 3,678,085.
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- Argiro, Thomas J. Composition for reducing friction on coated abrasive cloth. 3,639,316, 2-1-72, Cl. 260-22.
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- Argunov, Jury Vasilievich: See—
Maslennikov, Konstantin Nikolaevich; Argunov, Jury Vasilievich; Savonkin, Nikolai Porfirievich; Smyvin, Rudolf Mikhailovich; and Chzhen, Igor Alexeevich, 3,688,141.
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Brecker, Lawrence R.; and Thee, Alfred, 3,640,953.
Brecker, Lawrence R.; and Thee, Alfred, 3,642,677.
Brecker, Lawrence R.; and Thee, Alfred, 3,642,848.
Brecker, Lawrence R.; and Thee, Alfred, 3,674,737.
Kauder, Otto S., 3,632,538.
Kauder, Otto S., 3,647,841.
Kauder, Otto S., 3,654,178.
Kauder, Otto S.; Leistner, William E.; and Hecker, Arthur C., 3,655,832.
Kauder, Otto S.; and Leistner, William E., 3,662,032.
Leveskis, Newton G.; and Abma, Charles B., 3,702,869.
Lewis, Roger N.; and Friedman, Ronald L., 3,652,524.
Lewis, Roger N.; and Friedman, Ronald L., 3,687,867.
McCann, Thomas J., 3,691,217.
Minagawa, Motonobu; Nakagawa, Kenichi; and Goto, Minoru, 3,673,152.
Wood, Donald W., 3,652,681.
- Argus Engineering Company, Inc.: See—
Costello, Bernard J., 3,661,369.
Costello, Bernard J., 3,674,974.
- Argyres, George; and Clendenen, Donald, to Gerber Products Company. Machine for unloading retort crates. 3,643,823, 2-22-72, Cl. 214-310.
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Hurst, Alan R., 3,632,386.
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Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexandr; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikhailovich; Sysenko, Anatoly Ivanovich; Grinspon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toschev, Alexandr Mikhaevich, 3,687,188.
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Holmes, Frank; Arias, Henry, Jr.; and Read, George, 3,675,883.
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- Ariendorf, B. Honningen: See—
Moser, Wilhelm; Ariendorf, B. Honningen; Wirks, Wilhelm; and Ackermann, Karl-Heinz, 3,680,798.
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Namika, Ryoichi; and Ariga, Masao, 3,661,455.
- Ariga, Shinichiro. High-frequency inductance type apparatus for detecting slight movement. 3,689,905, 9-5-72, Cl. 340-199.000.
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Nakamura, Toshio; Arii, Hidetoshi; Tatekawa, Shozo; and Kawai, Sadaharu, 3,663,077.
- Arii, Mitsuru: See—
Nabae, Akira; Arii, Mitsuru; Arakawa, Osamu; and Sugiyama, Sadao, 3,683,138.
- Arikawa, Masayasu; Godai, Tomokazu; Arai, Toshio; Hironosuke, Kada; and Akihiko, Iochi, to Kobe Steel, Ltd. Pulsed arc spray welding in a narrow groove. 3,679,866, 7-25-72, Cl. 219-137.000.
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- Arikawa, Yoshijiro: See—
Sagusa, Hisayuki; Takeuchi, Seiji; and Arikawa, Yoshijiro, 3,694,160.
- Ariki, Takeo: See—
Ozawa, Goro; Kosaka, Kenzo; Adachi, Kiyoshi; Okaya, Tsutomu; and Ariki, Takeo, 3,656,214.
- Arima, Hideki: See—
Murakami, Masuo; Iwanami, Masaru; Kubo, Kazuo; Sano, Kenji; Kochiya, Masahiro; and Arima, Hideki, 3,665,037.
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Yamada, Keisho; Nagai, Shigeki; Odan, Kyoji; Arima, Yasutaka; and Hidaka, Mikio, 3,641,101.
- Arimoto, Heiji: See—
Kimura, Hiroshi; Arimoto, Heiji; Nara, Hirohisa; Miyamatsu, Tsugio; and Kitajima, Mitsuo, 3,695,306.
- Arimura, Ichiro: See—
Matsushima, Hiroshi; Arimura, Ichiro; Goto, Hiroshi; and Nakao, Yoshikazu, 3,643,151.
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Nakanishi, Michio; Arimura, Katsuo; Tsumagari, Tatsumi; and Shiroki, Masami, 3,651,052.
Nakanishi, Michio; Arimura, Katsuo; and Okada, Tadao, 3,661,902.
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Kubo, Moritada; and Arimura, Yoshiaki, 3,693,154.
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Gantschnigg, Gottfried K.; and Wameling, Richard F., 3,650,180.
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- Aristo-Werke Dennert & Pape KG: See—
Muller, Friedrich, 3,651,708.
- Arita, Miyoichi. Holder for chopsticks. 3,637,248, 1-25-72, Cl. 294-16.
- Arita, Muneyoshi: See—
Sakai, Hidetami; and Arita, Muneyoshi, 3,642,603.
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Sekido, Satoshi; and Arita, Tomohiko, 3,679,945.
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Kaneko, Hidehiko; Aritomi, Jiro; and Nakamura, Keiji, 3,700,680.
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Takeda, Chujo; Kojima, Yoshihiro; Yamaguchi, Toshiyuki; and Ariyama, Yasuo, 3,639,865.
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- esters of alpha-L-aspartyl-L-phenylalanine. 3,678,026, 7-18-72, Cl. 260-112.500.
- Arizona Chemical Company: See—
Davis, Curry Beach, 3,642,928.
- Arizona Chemical Company, mesne: See—
Arlt, Herbert George, Jr.; and Sheers, Edward Helmut, 3,649,580.
Conroy, Natalie Hetman, 3,632,822.
Davis, Curry Beach, 3,696,164.
Scharer, Roland Pierre Franz, 3,649,612.
Sheers, Edward Helmut; and Encke, Frederick Ludwig, 3,671,461.
Wheelus, Charles Glenn, 3,700,634.
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Barney, Charles Azel, 3,652,811.
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Mischutin, Vladimir, 3,671,304.
Sapers, Ira, 3,674,420.
- Arkansas Rock and Gravel Co.: See—
Holland, John H., 3,647,096.
- Arkell, Alfred: See—
Smetana, Richard D.; Chafetz, Harry; Arkell, Alfred; and McMahon, Matthew A., 3,642,831.
Smetana, Richard Denis; Chafetz, Harry; and Arkell, Alfred, 3,642,832.
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Hensel, William E., Jr.; and Harlowe, William W., Jr., 3,643,455.
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Dreannan, Wendell M., 3,638,635.
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Linnebuhr, Eckhard, 3,704,777.
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Archer, Bill; and Low, John, III, 3,646,719.
- Arlt, Dieter, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of organic isocyanates from isocyanide dihalides. 3,639,442, 2-1-72, Cl. 260-453.
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- Arm, Herbert G.: See—
Roy, Edmond A.; Coolbaugh, James C.; Norris, Wayne D.; and Arm, Herbert G., 3,694,146.
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Walz, Frank C., Jr.; and Davis, Jerry B., 3,683,571.
- Arman, Dario. Automotive windshield wiper blade construction. 3,657,762, 4-25-72, Cl. 15-250.32.
- Armand, Joseph Marcel: See—
Jones, Richard Norman; Armand, Joseph Marcel; and Hull, Nadeau, 3,683,978.
- Armand, Walter R. Water heating attachments for automotive engine exhaust pipes. 3,698,992, 10-17-72, Cl. 165-51.000.
- Armaturenwerk Niedersheld GmbH: See—
Braas, Alfred, 3,646,958.
- Armbrust, Herbert: See—
Goerth, Helmut; and Armbrust, Herbert, 3,665,029.
Schecker, Hans-Georg; Koehler, Waldemar; Armbrust, Herbert; Sturm, Hans Juergen; and Kilpper, Gerhard, 3,686,339.
Sturm, Hans Juergen; Mayer, Kurt; Kilpper, Gerhard; and Armbrust, Herbert, 3,639,387.
Sturm, Hans Juergen; Armbrust, Herbert; Nienburg, Hans; and Eisfeld, Wolfgang, 3,655,741.
Sturm, Hans Juergen; Armbrust, Herbert; Eisert, Manfred; and Schecker, Hans-Georg, 3,658,893.
Sturm, Hans Juergen; and Armbrust, Herbert, 3,682,913.
Sturm, Hans-Juergen; and Armbrust, Herbert, 3,651,081.
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- Armbruster, Jean-Claude: See—
Croissant, Pierre Michel Rene; Armbruster, Jean-Claude; and Chaumeau, Andree, 3,697,327.
- Armco Steel Corporation: See—
Bennett, Howard W., 3,682,711.
Bloudoff, Peter S., 3,666,378.
Brown, Edward L., 3,640,326.
Campbell, James R., 3,680,930.
Chalk, David L., 3,649,374.
Chalk, David L., 3,674,467.
Clarke, William C., Jr., 3,658,513.
Cordrey, Richard N., 3,685,288.
Crow, Harold E.; Moffa, Joseph; and Berge, C. Frederick, 3,694,007.
Denhard, Elbert E., Jr.; and Gaugh, Robert R., 3,645,725.
Denhard, Elbert E., Jr., 3,660,176.
Espy, Ronald H.; and Denhard, Elbert E., Jr., 3,660,080.
Follstaedt, Donald W.; and Burns, Robert S., 3,635,391.
Follstaedt, Donald W.; and Pinson, Richard D., 3,683,989.
Goudy, William E., 3,664,516.
Haney, Eugene E., 3,640,776.
Haney, Eugene E.; and Bagdal, Karl T., 3,682,136.
Howard, Robert E., 3,664,074.
Knapp, Earle L., 3,687,105.
Kreml, John F.; Leibel, John M.; and Pierpont, George C., 3,666,580.
Kreml, John F., 3,673,094.
Lewis, Clarence P., 3,662,579.
Naber, Richard E.; and Hamilton, William D., 3,659,447.
Orts, Donald H., 3,683,147.
Osborne, Herbert L.; and Haley, Kenneth R., 3,689,252.
Pierson, Marvin B., 3,632,392.
Pierson, Marvin B., 3,690,293.
Schnedler, Paul E., 3,672,324.
Stark, Marvin L., 3,632,411.
Stark, Marvin L., 3,695,543.
Tanczyn, Harry, 3,663,215.
- Armec Corporation: See—
Allison, William W., 3,643,140.
Allison, William W., 3,671,825.
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- Armentrout, Dean R.: See—
Krueger, Harvey R.; and Armentrout, Dean R., 3,635,080.
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Paull, Peter L.; and Armistead, Fontaine C., 3,683,629.
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- Armitage, Bernard John: See—

- Adams, Stewart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, 3,644,420.
- Adams, Stewart Sanders; Armitage, Bernard John; Heathcote, Bernard Vincent; and Bristow, Norman William, 3,681,373.
- Adams, Stewart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, 3,686,218.
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- Alstad, John K.; Armitage, John D., Jr.; and Bate, Geoffrey, 3,665,431.
- Armitage, John L., and Co.: See—
- Jeff, William C.; Luyster, Thomas, Jr.; Lynch, James F., Jr.; and Moroli, Frank A., 3,677,794.
- Armistead, John D.: See—
- Streetman, Foy J.; and Armistead, John D., 3,654,421.
- Armor Elevator Company, Inc.: See—
- Stichweh, James H.; Hornung, Stephen A.; and Duckwall, Paul, III, 3,665,223.
- Armortite Lens Company, Inc.: See—
- Michel, George H., 3,693,953.
- Armour and Company: See—
- Foltz, Thomas R.; Hegarty, Gerald R.; Hopkins, Ervin W.; and Wilcox, Joseph C., 3,696,662.
- Hansen, Leo J., 3,636,757.
- Hansen, Leo J., 3,688,566.
- Heck, Joseph G.; and Hill, Warner M., 3,704,204.
- Jungermann, Eric; and Reich, Henry E., 3,649,718.
- Rendek, Robert B.; and Binkerd, Evan F., 3,700,847.
- Rogers, Alan B.; Sebring, Michael; and Kline, Ralph W., 3,658,558.
- Rogers, Alan B.; and Schwall, Donald V., 3,681,094.
- Rogers, Alan B.; and Sebring, Michael, 3,697,283.
- Smithers, James P., 3,657,859.
- Stump, Harry C.; and Ford, Paul L., 3,649,301.
- Stump, Harry C.; and Ford, Paul L., 3,650,767.
- Taber, David; and Zakaria, Moneeb H., 3,686,418.
- Willems, Donald J.; and Markey, Everett F., 3,693,216.
- Armour Industrial Chemical Company: See—
- Malec, Robert E.; and Betty, Roy J., 3,647,378.
- Miller, Eugene J., Jr.; Mais, Ago; Berenschot, Donald J.; and Berger, Robert L., 3,694,409.
- Mueller, William A.; and Swidler, Ronald, 3,637,478.
- Tiefenthal, Harlan E.; and Miller, Eugene J., Jr., 3,637,855.
- Tiefenthal, Harlan E.; Jungermann, Eric; Miller, Eugene J., Jr.; and Callahan, John J., 3,674,879.
- Armour Industrial Chemical Company, mesne: See—
- Dybalski, Jack N.; and Timmons, Robert D., 3,689,297.
- Dybalski, Jack N.; and Timmons, Robert D., 3,689,298.
- Kinney, Layton Frederick, 3,701,744.
- Marsh, Byron E.; Kinney, Layton E.; and Betty, Roy J., Jr., 3,634,273.
- Marsh, Byron E.; Betty, Roy J.; and Marsh, Frederick S., 3,650,951.
- Miller, Eugene J., Jr.; and Mais, Ago, 3,661,951.
- Reck, Richard A.; and Abramitis, Walter W., 3,683,010.
- Armour Leather Company: See—
- Schwaller, Lando J.; and Razal, Albert J., 3,636,737.
- Armour Pharmaceutical Company: See—
- Bossinger, Charles D.; and Enkoji, Takashi, 3,655,892.
- Enkoji, Takashi; and Bossinger, Charles D., 3,636,220.
- Gilman, William S.; Jones, John L.; and Rubino, Andrew M., 3,692,811.
- Hughes, John Lawrence; and Liu, Robert Chung-Huan, 3,681,459.
- Kleszynski, Richard Raymond; and Bastian, James Winslow, 3,694,161.
- Thomas, William Raymond, 3,634,581.
- Armour-Dial, Inc.: See—
- Jungermann, Eric; Herrick, Aaron B.; and Carlo, Armando, 3,650,831.
- Jungermann, Eric; Taber, David; and Raphaelian, Leo A., 3,652,767.
- Mast, Rolf, 3,705,102.
- Taber, David; and Raphaelian, Leo A., 3,687,856.
- Zakaria, Moneeb H., 3,637,510.
- Zakaria, Moneeb H.; Raphaelian, Leo A.; Taber, David; and Brown, James Jr., 3,703,471.
- Armstead, George B., Jr.; and Kelly, Edward A., to Merrow Machine Company, The. Sewing machine cooling system. 3,638,594, 2-1-72, Cl. 112-218.
- Armsted Industries Incorporated: See—
- Jeffreys, Lyman W., 3,646,991.
- Armstrong, Adna A., to Amsted Industries Incorporated. Method of abrasive application to straight sleeves. 3,689,241, 9-5-72, Cl. 51-293,000.
- Armstrong, Blair D., to Armstrong Store Fixture Corporation. Partition structure with adjustable end member. 3,698,568, 10-17-72, Cl. 211-184,000.
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- Wilkin, John P., 3,655,025.
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- Armstrong, Bruce M.; and Butler, Jack M., 3,695,126.
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- Brock, Gordon L.; and Armstrong, Charles H., 3,643,113.
- Armstrong Cork Company: See—
- Adams, William H.; and Painter, Charles D., 3,653,560.
- Androkitis, John L., 3,655,078.
- Bagley, Donald H.; and Cook, Robert G., 3,639,959.
- Bagley, Donald H.; and Erickson, Richard L., 3,679,336.
- Bagley, George E.; and Poshkus, Algirdas C., 3,707,553.
- Blossick, Raymond B.; and Meier, Robert A., 3,668,029.
- Bobb, Paul D., 3,642,127.
- Bobb, Paul D., 3,670,473.
- Booth, Alfred E., 3,649,315.
- Brown, Milton G.; Ollinger, James C.; and Sienkiewicz, Joseph E., 3,665,177.
- Drout, Frank G., 3,649,433.
- Elliott, Charles G.; and Reed, David H., 3,682,741.
- Evans, Richard J., 3,653,124.
- Fearnow, Edgar C.; and Martin, William E., 3,658,617.
- Gard, George E., 3,663,332.
- Gilbo, Charles F.; and Johnson, Norman A., 3,640,045.
- Harris, Thomas G., 3,703,498.
- Heckles, John S.; and Quinn, Edwin J., 3,694,430.
- Herweh, John E.; and Poshkus, Algirdas C., 3,654,242.
- Herweh, John E., 3,658,951.
- Horst, Robert L.; and Ringer, Richard M., 3,694,634.
- Kauffman, Harold L.; and Hisey, Richard M., 3,666,582.
- McCabe, Howard R., 3,691,990.
- Nikolaus, Harold W., 3,633,952.
- Nute, Ernest B., Jr.; and Ollinger, James C., 3,640,557.
- Ollinger, James C.; Wolf, Herbert R., Jr.; and Latour, Yves, 3,695,395.
- Schluter, Wolfram, 3,696,571.
- Sensenig, Darryl L.; and Shaub, Robert I., Jr., 3,684,630.
- Ungaro, Nicholas A., 3,653,734.
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- Moore, Robert M.; Lauterbach, Norman H.; and Armstrong, David P., 3,655,968.
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- Kolesh, Victor A.; and Armstrong, Edward W., 3,633,637.
- Armstrong, Floyd, Jr., to United States Steel Corporation. Dust valve. 3,661,357, 5-9-72, Cl. 251-62.
- Armstrong, Fredrick J.: See—
- Susdorf, Robert A.; and Armstrong, Fredrick J., 3,654,504.
- Armstrong, Gary E., to Metalines, Inc. Expansion joint cover. 3,696,575, 10-10-72, Cl. 52-287,000.
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- Wentworth, Ralph L.; and Armstrong, Glenn K., 3,687,684.
- Armstrong, Jack W., to Lipe-Rollway Corporation. Coned end roller bearing. 3,667,822, 6-6-72, Cl. 308-213.
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- Armstrong, Blair D., 3,698,568.
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- Christian, Daniel T.; Look, Melvin; Nobell, Albert; and Armstrong, Thomas S., 3,654,194.
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- Kropp, Willis A., 3,636,949.
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- Arnaudin, Edwin Henry, Jr.: See—
- Stauffer, John Dale; Arnaudin, Edwin Henry, Jr.; and Chrisman, Willis Lee, 3,645,656.
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- Magin, Berthold, 3,643,341.
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- Stallman, James E.; Schlitt, James J.; Puetz, Jordan F.; and Arneberg, Don J., 3,643,187.
- Stallman, James E.; and Arneberg, Don J., 3,643,189.
- Arnell, Alvin, to Commercial Envelope Manufacturers, Inc. Sheet feeding device. 3,674,255, 7-4-72, Cl. 271-29,000.
- Arnell, Anders Bertil: See—
- Aronsson, Lars Bertil; Arnell, Anders Bertil; and Molitor, Ulf W., 3,667,393.
- Arnemann, Gerhard, to Fordertechnik Hamburg Harry Lassig. Apparatus for loading sacks onto pallets. 3,651,962, 3-28-72, Cl. 214-6.
- Arnemann, Gerhard. Method of stacking and destacking barrels. 3,705,657, 12-12-72, Cl. 214-152,000.
- Arnesen, Bernhard A. Hair curling device. 3,698,402, 10-17-72, Cl. 132-37,000.
- Arneson, Edwin L., to Federal Paper Board Company, Inc. Carrier package. 3,653,503, 4-4-72, Cl. 206-65.
- Arneson, Edwin L., to Federal Paper Board Company, Inc. Method and apparatus for packaging bottled products in basket-style carriers. 3,698,151, 10-17-72, Cl. 53-26,000.
- Arneson, Howard M., to Arneson Products, Inc. Swimming pool chlorinator. 3,684,460, 8-15-72, Cl. 23-267,00a.
- Arneson, Lawrence E. Container package and method and apparatus for assembling same. 3,643,796, 2-22-72, Cl. 206-65.
- Arneson Products, Inc.: See—
- Arneson, Howard M., 3,684,460.
- Arneth, Reinhold: See—
- Moraw, Roland; and Arneth, Reinhold, 3,705,768.
- Arneth, Reinhold; Trittler, Hans; and Emig, Jürgen, to Kalle Aktiengesellschaft. Process for transferring electrostatic charge images. 3,666,458, 5-30-72, Cl. 96-1.
- Arnett, Charles J.; and Hoover, James M. (St. Chamond, Firminy, St. Etienne Jacob-Holtzer). Thermocouple input temperature sensing circuitry. 3,650,154, 3-21-72, Cl. 73-361.
- Arnett, Joseph W., Jr.; and Norwood, David W., to Concorde Fibers, Inc. Melt spinning. 3,696,184, 10-3-72, Cl. 264-178,00f.
- Arnett, Robert W. Expandable reveal with frontal tear strip for plaster walls. 3,667,174, 6-6-72, Cl. 52-100,000.
- Arney, William C., Jr., to Union Carbide Corporation. Flame resistant latex and emulsion systems and the products formed therefrom. 3,704,273, 11-28-72, Cl. 260-29,40r.
- Arnhold, Rudolf: See—
- Furtmeier, Hans; and Arnhold, Rudolf, 3,681,905.
- Arni, Urs: See—
- Aufderegg, Klaus; Arni, Urs; Faucci, Adriano; and Stocker, August, 3,683,003.
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- Arning, Klaus H.; and Rumpf, Robert J., to Ford Motor Company. Method of manufacturing a motor vehicle. 3,694,890, 10-3-72, Cl. 29-428,000.
- Arnold, Benjamin Harry; Fildes, Robert Anthony; and Gilbert, David Arthur, to Glaxo Laboratories Limited. Cephalosporin derivatives. 3,658,649, 4-25-72, Cl. 195-29.
- Arnold, Bruce C.; Auman, John T., Jr.; Kinnison, Charles G.; and Lantz, James E., to Twin Disc, Incorporated. Electrical control apparatus for an engine and variable transmission apparatus. 3,692,157, 9-19-72, Cl. 192-98,000.
- Arnold, Bruce K.: See—
- Anhalt, Jonn W.; Arnold, Bruce K.; and Sugar, Joseph, 3,638,165.
- Arnold, Carroll H., to Wain-Roy Company, Inc. Lifting and excavating apparatus. 3,666,124, 5-30-72, Cl. 214-138,000.
- Arnold, Carter H. Rope gripping device. 3,669,223, 6-13-72, Cl. 188-188,000.
- Arnold, Carter H. Hoisting device. 3,707,275, 12-26-72, Cl. 254-150,000.
- Arnold, Donald R.; and Sousa, Anthony A., to Union Carbide Corporation. Mildewcidal composition and method of use. 3,636,217, 1-18-72, Cl. 424-263.
- Arnold, Donald R.; Trecker, David J.; and Stehr, Charles E., to Union Carbide Corporation. Polycyclic dimercaptans. 3,644,532, 2-22-72, Cl. 260-609.
- Arnold, Douglas; and Faulconer, Harry A., said Arnold assor to Sargent & Company. Magazine-equipped slug-driving tool. 3,641,652, 2-15-72, Cl. 29-203.
- Arnold, Emmons S., to Owens-Illinois, Inc. Refrigerator clip. 3,666,228, 5-30-72, Cl. 248-250,000.
- Arnold, Eugene W.; and Hasenwinkle, Earl D., to Weyerhaeuser Company. Apparatus and technique for harvesting plants rooted in the ground. 3,693,721, 9-26-72, Cl. 171-61,000.
- Arnold, Evelyn S.: See—
- Arnold, Lucius P., 3,640,025.
- Arnold, Floyd L.; and Patmore, James R., to Electronic Associates, Inc. Audio/visual teaching device. 3,691,650, 9-19-72, Cl. 35-8,00a.
- Arnold, Fred E.; and Van Deusen, Richard L., to United States of America, Air Force. Method of preparing films and coatings of heterocyclic-aromatic polymers. 3,632,414, 1-4-72, Cl. 117-124.
- Arnold, Fred E., to United States of America, Air Force. Fused ring tetraamino compound the tetraosylate thereof, and their synthesis. 3,702,326, 11-7-72, Cl. 260-250,00r.
- Arnold, Frederik Alexander Nicolaas Gerardus: See—
- Marinissen, Jan Philippus Cornelis; and Arnold, Frederik Alexander Nicolaas Gerardus, 3,662,946.
- Arnold, George R.; and Rosiello, Raymond S., to Ormco Corporation. Method of casting parts having dimensionally critical apertures. 3,707,152, 12-26-72, Cl. 164-45,000.
- Arnold, Guenther, to General Motors Corporation. Steering gear assembly. 3,665,783, 5-30-72, Cl. 74-498,000.
- Arnold, Herbert: See—
- Scholl, Hermann; Norbert, Stuttgart; Gansert, Willi; and Arnold, Herbert, 3,678,904.
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- Arnold, James F., to Hydro Tech Services, Inc. Connector for tubular members. 3,704,033, 11-28-72, Cl. 285-18,000.
- Arnold, John L. Sign display apparatus. 3,680,238, 8-1-72, Cl. 40-132,00r.

- Arnold, John W.: *See*—
Kirkham, Thomas A.; Arnold, John W.; and Giufreda, Anthony J., 3,669,857.
- Arnold, Karl: *See*—
Hetmann, Richard; Stotz, Erich; Asel, Ludwig; and Arnold, Karl, 3,635,303.
- Arnold, Kurt Herbert, to Valcor Engineering Corporation. Pump. 3,645,653, 2-29-72, Cl. 418-56.
- Arnold, L. P.: *See*—
Arnold, Lucius P., 3,640,025.
- Arnold, Larry R.: *See*—
Hiscox, Harold C.; and Arnold, Larry R., 3,634,862.
- Arnold, Loren Glenn: *See*—
Hentrich, Robert Dale; Esbeck, Howard Christian; and Arnold, Loren Glenn, 3,700,037.
- Matthews, Charles Woodrow; and Arnold, Loren Glenn, 3,643,748.
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- Arnold, Nancy Hazlett: *See*—
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- McCormick, Jerry Robert Daniel; and Arnold, Nancy Hazlett, 3,636,081.
- McCormick, Jerry Robert Daniel; and Arnold, Nancy Hazlett, 3,636,063.
- Arnold, Orlan M.: *See*—
Frundl, Ronald J.; Hanson, Victor W.; Jamison, Robert M.; and Arnold, Orlan M., 3,666,248.
- Arnold, Peter: *See*—
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- Arnold, Richard B.; and Smith, Dallas F., to General Electric Company. Method and apparatus for forming shaped insulators of different lengths. 3,643,317, 2-22-72, Cl. 29-205.
- Arnold, Richard B., to General Electric Company. Coil developing apparatus. 3,672,027, 6-27-72, Cl. 29-205.000.
- Arnold, Richard B., to General Electric Company. Method for inserting insulators and coil turns into the slots of a magnetic core. 3,672,039, 6-27-72, Cl. 29-596.000.
- Arnold, Richard B., to General Electric Company. Method of developing coils of a coil group for a magnetic core. 3,672,040, 6-27-72, Cl. 29-596.000.
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- Arnold, Richard E.: *See*—
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- Arnold, Richard F.: *See*—
Amdahl, Gene M.; Arnold, Richard F.; Dauber, Philip S.; Freiman, Charles V.; Robelen, Russell J.; Schorr, Herbert; and Wierzbicki, John R., 3,670,309.
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- Arnold, Richard F.; Dauber, Philip S.; and Sussenguth, Edward H., to International Business Machines Corporation. Pseudo-random code implemented variable block-size storage mapping device and method. 3,675,215, 7-4-72, Cl. 340-172.500.
- Arnold, Robert H.: *See*—
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- Arnold, Robert Harry; and Crouch, Cyril Borthwick, to Metal Box Company Limited, The. Sheet feeding apparatus. 3,642,272, 2-15-72, Cl. 271-62.
- Arnold, Soodalter. Sleeve apparatus. 3,703,065, 11-21-72, Cl. 53-197.000.
- Arnold, Ted A., to Vacu-Blast corporation. Blast-room for abrasive blasting system. 3,672,292, 6-27-72, Cl. 98-33.000.
- Arnold, Thomas B.; Byrnes, Eugene B.; and Castoe, Alonzo R., to Atlantic Richfield Company. Oil and gas treatment. 3,702,296, 11-7-72, Cl. 208-341.000.
- Arnold, Thomas N. Connection joint for structural members. 3,664,077, 5-23-72, Cl. 52-283.
- Arnold, Thomas R. Modular building structure. 3,699,731, 10-24-72, Cl. 52-64.000.
- Arnold, Walter; and Wepner, Gunter, to Akzona Incorporated. Apparatus for cutting spool wound thread into staple fibers. 3,648,554, 3-14-72, Cl. 83-169.
- Arnold, Wayne E., to Westinghouse Electric Corporation. Computer controlled wiring network test system. 3,705,349, 12-5-72, Cl. 324-73.00r.
- Arnold, William Charles. Heald frame. 3,693,667, 9-26-72, Cl. 139-91.000.
- Arnold, William O., Jr., to Union Insulating Company, Inc. Method for attaching bracket means to an imperforate support. 3,673,670, 7-4-72, Cl. 29-432.200.
- Arnone, Michael P.: *See*—
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- Arnone, Michael P., to Kreisler Manufacturing Corporation. Display package for watchbands or the like. 3,648,831, 3-14-72, Cl. 206-45.14.
- Arnosky, Joseph E.: *See*—
Balzer, Norbert R.; and Arnosky, Joseph E., 3,705,973.
- Arnot, Alfred Erwin Reginald. Device for working a cylindrical work-piece. 3,651,569, 3-28-72, Cl. 30-95.
- Arnoux, Michel, to C.I.T.-Compagnie Industrielle des Telecommunications. Dialing system. 3,657,484, 4-18-72, Cl. 179-16.
- Arnsteiner, Anton. Ski. 3,705,729, 12-12-72, Cl. 280-11.131.
- Arntson, Gary L., to General Motors Corporation. Steering column assembly. 3,702,081, 11-7-72, Cl. 74-492.000.
- Arntson, Gary L.; and Rasmussen, Tom, to General Motors Corporation. Steering column assembly. 3,703,106, 11-21-72, Cl. 74-492.000.
- Arntz, Hans-Egon: *See*—
Bungardt, Karl; Dietrich, Hermann; Lennartz, Gustav; and Arntz, Hans-Egon, 3,698,889.
- Aro Corporation, The: *See*—
Brandenberg, Karl A., 3,632,994.
- Aron, Edward A.; Griffith, Louis E.; and Tidd, James A., to Graphic Systems, Incorporated. Photocomposing machine with flexible fiber optics scanning member. 3,693,516, 9-26-72, Cl. 95-4.50r.
- Aron, Jerome, to Freres, Kuhn, & Cie, Societe en commandite simple. Hay-making machine. 3,650,101, 3-21-72, Cl. 56-370.
- Aron-Samuel, Jan Marcel Didier; and Sterne, Jean Jacques. 1,3,5-Triazines. 3,703,514, 11-21-72, Cl. 260-249.900.
- Aronberg, Lester, to Lake Chemical Co. Flux for use in soldering of stainless steels. 3,660,127, 5-2-72, Cl. 106-286.
- Arond, Lester H., to Polaroid Corporation. Color diffusion transfer film unit containing a temporary barrier for developer restrainers. 3,706,557, 12-19-72, Cl. 96-29.00d.
- Arone, Angela: *See*—
Valletti, Rose; and Arone, Angela, 3,667,316.
- Aronetics, Inc.: *See*—
Gardener, Hugh E., 3,704,570.
- Aronica, Claude S.; and Moulin, Louis, to Pechiney-Progil. Insecticidal compositions of endosulfan in fenitrothion for U.L.V. treatment. 3,671,632, 6-20-72, Cl. 424-218.
- Aronoff, Arnold, to Holiday Luggage Mfg. Co., Inc. Luggage case. 3,698,522, 10-17-72, Cl. 190-41.00r.
- Aronoff, Edward-Israel. Method for treating tubular fabrics. 3,704,151, 11-28-72, Cl. 117-7.000.
- Aronoff, Elihu; and Labana, Santokh S., to Ford Motor Company. Tetra vinyl-vinyl monomer paint composition and painting process. 3,679,447, 7-25-72, Cl. 106-287.000.
- Arons, Gilbert N., to United States of America, Army. Copolymerization of polyacrylic acid within nylon structures. 3,672,975, 6-27-72, Cl. 117-118.000.
- Aronsen, Daniel, Jr., *mesne*: *See*—
Erbil, Ibrahim Hidayet, 3,686,816.
- Aronson, Arnold J., to Norton Company. Vacuum coating system with induction heated vaporizing crucibles. 3,657,506, 4-18-72, Cl. 219-10.75.
- Aronson, Arthur H.; Lichy, Edward J.; Guess, Clifford A.; and Samways, Norman L., to Jones & Laughlin Steel Corporation. Welded pipe structure of high strength low alloy steels. 3,661,537, 5-9-72, Cl. 29-191.
- Aronson, Theodore F., to Perry Industries, Inc., *mesne*. Method and apparatus for measuring and dispensing predetermined equal amounts of powdered material. 3,656,518, 4-18-72, Cl. 141-1.
- Aronson, Theodore F. Child-proof container closure means. 3,679,084, 7-25-72, Cl. 215-9.000.
- Aronsson, Lars Bertil; Arnell, Anders Bertil; and Molitor, Ulf W., to Forsvarets Fabriksverk. Electric fuze for shaped-charge missiles. 3,667,393, 6-6-72, Cl. 102-70.2.
- Arouete, Jean. Haemostatic apparatus for operations on the head of human beings. 3,659,609, 5-2-72, Cl. 128-325.
- Arpajian, Vasken F.: *See*—
Hutchinson, Herman R.; Arpajian, Vasken F.; and Malcomson, Robert S., 3,642,402.
- Hutchinson, Herman R.; Arpajian, Vasken F.; and Malcomson, Robert S., 3,695,800.
- Arpajian, Vasken F.; and White, Quentin M., to Pennwalt Corporation. Compression molding system. 3,661,485, 5-9-72, Cl. 18-16.
- Arpax Company, The: *See*—
Johnson, George R., 3,650,877.
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- Arpe, Hans-Jurgen: *See*—
Boldt, Manfred; Arpe, Hans-Jurgen; and Hornig, Lothar, 3,644,486.
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- Hornig, Lothar; Arpe, Hans-Jurgen; and Boldt, Manfred, 3,651,127.
- Hornig, Lothar Heinz; and Arpe, Hans-Jurgen, 3,687,993.

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- Arrance, Frank C.; and Rosa, Albert G., to McDonnell Douglas Corporation. Battery separator and method of producing same. 3,647,554, 3-7-72, Cl. 136-145.
- Arrance, Frank C., to McDonnell Douglas Corporation, *mesne*. Battery construction having a honeycomb matrix with cells filled with different electrode materials. 3,661,644, 5-9-72, Cl. 136-6.000.
- Arrance, Frank C., to McDonnell Douglas Corporation. Battery electrode and battery embodying same. 3,671,319, 6-20-72, Cl. 136-6.000.
- Arrance, Frank C., to McDonnell Douglas Corporation. Flexible inorganic fibers and battery electrode containing same. 3,703,413, 11-21-72, Cl. 136-6.000.
- Arrant, Kearney D., to Monsanto Company. Hoisting and transporting device. 3,674,165, 7-4-72, Cl. 214-396.000.
- Arrant, Kearney D., to Monsanto Company. Paint stripper. 3,695,222, 10-3-72, Cl. 118-207.000.
- Arrighetti, Sergio: *See*—
Cesca, Sebastiano; Arrighetti, Sergio; and Marconi, Walter, 3,652,514.
- Corradini, Giorgio; Ghetti, Giuseppe; Cesca, Sebastiano; and Arrighetti, Sergio, 3,691,141.
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- Arrigo, Joseph T.; and Sparks, Allen K., to Universal Oil Products Company. Process for preparing cyclic compounds. 3,707,481, 12-26-72, Cl. 260-343.20r.
- Arrigo, Michael F.: *See*—
Asbelle, Charles C.; Arrigo, Michael F.; Hunting, Kenneth E.; and Helmuth, Gene R., 3,673,613.
- Galloway, Dwight V.; King, Gordon E.; Asbelle, Charles C.; and Arrigo, Michael F., 3,703,894.
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- Arrington, Douglas C.: *See*—
Eisenman, Wesley L.; Arrington, Douglas C.; Bates, Richard L.; Merriam, James D.; and Stierwalt, Donald L., 3,660,659.
- Arrington, James R.; and King, Karl Lewis, to American Limnetics Instruments, Inc. Thallium alloy electrode. 3,696,019, 10-3-72, Cl. 204-290.00r.
- Arrington, Lee O.: *See*—
King, James L.; and Arrington, Lee O., 3,677,641.
- Arrington, William L.; Gantt, Wayne Carlton; and Gouger, Leonard Joseph, to GTE Sylvania Incorporated. Non-inflammable horizontal output transformer. 3,671,903, 6-20-72, Cl. 336-96.000.
- Arron, Stanley. Electrically heated mitten. 3,632,966, 1-4-72, Cl. 219-211.
- Arrow Safety Device Company: *See*—
Rossi, Robert R., 3,633,021.
- Arrow Tank Company, Inc.: *See*—
Pfeil, Arthur P., 3,667,639.
- Arrow-Hart, Inc.: *See*—
Bullock, John W., 3,703,694.
- Christensen, Paul M.; and Petitjean, Robert J., 3,639,715.
- Corley, Lawrence G.; and Johnson, David W., 3,648,142.
- Dennison, John J., 3,676,630.
- Dietrich, Walter L., 3,649,785.
- Genova, Joseph A., 3,634,812.
- Hafer, Paul M., 3,636,237.
- Johnson, David W., 3,649,780.
- Schleicher, Harold E., 3,634,795.
- Arroyo, John J. Mathematics training toy. 3,690,018, 9-12-72, Cl. 35-31.00c.
- Arsem, Alvan D.; Schwartz, Harold O.; and Ippolito, Anthony C., to Wurlitzer Company, The. Automatic rhythmic chording unit. 3,706,837, 12-19-72, Cl. 84-1.030.
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- Arsenault, James H.: *See*—
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- Arseneault, Paul J.; and Feierabend, Louis B., to International Business Machines Corporation. Loading and unloading an endless web in a cartridge. 3,661,309, 5-9-72, Cl. 226-97.
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- Arsenius, Torsten Henry; and Hallstedt, Carl Goran Albin, to SKF Industrial Trading and Development Company, N.V. Bearing for supporting heavy rotating machinery. 3,675,977, 7-11-72, Cl. 308-9.000.
- Arsenius, Torsten Henry, to SKF Industrial Trading and Development Company N.V. Hydraulic fluid throttling device. 3,696,841, 10-10-72, Cl. 138-42.000.
- Arsura, Emilio: *See*—
Vitali, Tullio; Scrivani, Pietro; Ponci, Riccardo; Pellegrini, Giovanni; Gialdi, Franco; and Arsura, Emilio, 3,657,263.
- Art Drapery Studios, Inc.: *See*—
Roller, Max F., 3,695,329.
- Art Metal -U.S. Corporation: *See*—
Vincent, David H.; and Johnson, Rodney L., 3,682,425.
- Art Metal-Knoll Corporation: *See*—
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- Rothenberg, Murray; Burgold, Kurt H.; and May, Gordon L., 3,632,013.
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- Art-Lloyd Metal Products Corporation: *See*—
Gunzburg, Fred, 3,649,095.
- Artama, Arvi. Furnace for heating and bending glass plates for windshields and the like. 3,697,243, 10-10-72, Cl. 65-273.000.
- Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Besedov, Leonid Nikolaevich; Zhurenko, Anna Timofeevna; Urvantsev, Leonid Mikhailovich; Scherbakov, Jury Dmitrievich; Yasyukevich, Boris Ivanovich; Demin, Anatoly Anisimovich; and Peshkov, Evgeny Iktorovich. Appliance for automatic thread piecing in spinning or spinning and twisting machines. 3,654,756, 4-11-72, Cl. 57-34.
- Artaud, Maurice H., to Stromberg Datagraphix, Inc. Microfiche viewer. 3,667,839, 6-6-72, Cl. 353-27.000.
- Artaud, Maurice H.; Johnson, Ronald W.; and Sampath, Prativadi I., to Stromberg Datagraphix, Inc. Microfilm viewer-printer. 3,674,354, 7-4-72, Cl. 355-5.000.
- Artelt, Herbert C., Jr.: *See*—
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- McGuire, John V.; Watson, Donald W.; Enskat, Albert G.; and Artelt, Herbert C., Jr., 3,661,453.
- Artelt, Herbert C., Jr., to Xerox Corporation. Label strip feeder. 3,652,001, 3-28-72, Cl. 226-65.
- Artelt, Herbert C., Jr., to Xerox Corporation. Label printing apparatus. 3,679,300, 7-25-72, Cl. 355-3.000.
- Artelt, Herbert C., Jr., to Kollsman Instrument Corporation. Adjustable label form slitter for addressing machines. 3,707,424, 12-26-72, Cl. 156-521.000.
- Artemenko, Anatoly Ivanovich; Geshtenkern, Rafail Yakovlevich; and Yagupov, Igor Nikolaevich, to Vsesojuzny Nauchno-Issledovatel'sky Institut Gorno-Spasatel'nogo Dela. Medical splint apparatus. 3,683,902, 8-15-72, Cl. 128-89.00r.
- Arterbury, Bryant P.; and Burroughs, Thomas C., 33 1/3% to Arterbury, Roy L. Well bore circulating tool including positioning method by casing annulus fluid stretching tubing string. 3,648,777, 3-14-72, Cl. 166-312.
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Arterbury, Bryant P.; and Burroughs, Thomas C., 3,648,777.
- Arth, Glen E.: *See*—
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Takata, Victor, 3,680,803.
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Meier-Windhorst, Christian August, 3,685,954.
Meier-Windhorst, Christian August, 3,695,826.
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Gudmestad, Ragnar, 3,653,412.
Gudmestad, Ragnar, 3,672,025.
Gudmestad, Ragnar, 3,703,954.
Randar, Magnus, 3,668,764.
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Bradley, Richard S., 3,669,756.
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Barnett, Don C.; and Ganske, Kingston E., 3,693,982.
Ganske, Kingston E., 3,641,265.
Ganske, Kingston E., 3,641,279.
Thomason, Roger B., 3,704,422.
Vogel, John D.; and Canfield, William N., 3,703,288.
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Zalyaliev, Mansur Abdullovich; Asfandiyarov, Khalim Akhmetovich; Gubarev, Yakov Fedorovich; and Arzamastsev, Filipp Grigorievich, 3,693,934.
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Kaku, Kanui; Asaba, Mitsuo; Gondo, Yasaka; Kachi, Atsuyuki; and Maizumoto, Satoshi, 3,683,049.
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Noguchi, Teruhisa; Asada, Mitsuo; Sakimoto, Reiji; and Hashimoto, Koichi, 3,689,547.
- Asada, Noriyosi: See—
Yoshida, Yuji; Asada, Noriyosi; and Funatsu, Takao, 3,667,870.
- Asada, Reizo: See—
Yamada, Seibi; and Asada, Reizo, 3,650,645.
- Asada, Shigeo: See—
Yokota, Noriyuki; Tokuda, Shingo; and Asada, Shigeo, 3,649,508.
- Asada, Shuzi: See—
Ogata, Nobutaka; Kumamoto, Riyouzi; and Asada, Shuzi, 3,703,043.
- Asada, Toshikatsu: See—
Furuya, Akio; Hayashi, Masaaki; Nagami, Kouichi; Uchida, Masakatsu; Nishino, Sakae; Asada, Toshikatsu; Nagao, Yasuo; Matsuda, Hiroyoshi; and Tsuchiya, Harufumi, 3,689,446.
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Yamada, Seibi; and Asada, Yoshiharu, 3,661,330.
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Kobayashi, Wagi; and Narisawa, Fumitugu, 3,690,831.
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Aishima, Itsuho; Sakurai, Hisaya; Takashi, Yukichi; Morita, Hideo; Hirotsu, Yoshiyuki; and Hamada, Tetsuo, 3,661,878.
Kato, Masaaki; and Sato, Sigeta, 3,705,846.
- Asahi Dow Limited: See—
Nakanishi, Atsuo; Izawa, Shinichi; and Sato, Mikio, 3,664,977.
- Asahi Fancy Flywood Co., Ltd.: See—
Nakajima, Tutomu; and Shyaku, Tadasu, 3,690,976.
- Asahi Glass Co., Ltd.: See—
Akeyoshi, Kazuyuki; and Hayashi, Naonori, 3,694,897.
Amann, Herbert; and Bader, Erich, 3,700,650.
Furuuchi, Shigemasa; and Aikawa, Katsuaki, 3,660,137.
Hani, Hiroshi; and Masuda, Yasushi, 3,644,224.
Hiraga, Hisao; Ito, Syunichi; Inoue, Keitaro; and Hosoya, Hidenharu, 3,632,366.
Ishimatsu, Tsuyoshi; Ito, Takashi; Yano, Masamitsu; Takeda, Hajime; and Nagano, Kentaro, 3,664,765.
Ishiyama, Masahiko, 3,677,960.
Kanai, Eizo, 3,679,389.
Nagamura, Masao; Seya, Hiromichi; Iseki, Takaya; and Suzuki, Mikio, 3,645,700.
Nakayama, Junn; and Fukatsu, Yukio, 3,670,061.
Sese, Kiyoaki, 3,658,473.
Suzuki, Yoshiro; Nagahara, Shigehiro; and Ichimura, Nobuyoshi, 3,674,520.
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Aishima, Itsuho; Takashi, Yukichi; and Koseki, Toshinori, 3,694,403.
Akamatsu, Kiyoshi; and Fukui, Hisaaki, 3,663,222.
Akamatsu, Kiyoshi; Maruta, Masayasu; and Yonekura, Yasushi, 3,687,785.
Aso, Chuji; Kunitake, Toyoki; and Uchio, Haku, 3,642,757.
Baba, Nobuyoshi; Adachi, Makoto; and Nagata, Hideo, 3,689,232.
Fujimoto, Yoshihisa; Kimura, Yoshio; Terasaki, Iwao; and Kitago, Takanobu, 3,697,230.
Fujisaki, Yoshisato; Aishima, Itsuho; Sakurai, Hisaya; Kitaoka, Atsushi; Kawasaki, Hironobu; and Oshima, Minoru, 3,632,670.
Fukui, Hisaaki; Araki, Taketoshi; and Fuchi, Yoshikane, 3,677,755.
Fukui, Hisaaki; and Araki, Taketoshi, 3,698,904.
Fukuma, Noboru; Matsui, Kenichi; and Shimizu, Hiroshi, 3,663,675.
Fukuma, Noboru; Kobayashi, Hidehiko; Matsui, Kenichi; Sakashita, Masahira; and Henmi, Hiroshi, 3,677,880.
Hashiguchi, Yasuhisa; and Kamada, Suet, 3,641,105.
Hatayama, Takefumi; Hamano, Yoshihiko; and Yamamoto, Tsuyoshi, 3,700,572.
Honda, Makoto; Kubota, Yasuhiro; Aoshima, Atsushi; Hisamatsu, Tokuchi; and Ueda, Minoru, 3,666,632.
Honda, Makoto; Tanaka, Kyugo; and Watanabe, Itaru, 3,703,548.
Inoue, Goro; and Fukumi, Hirokazu, 3,637,689.
Inoue, Goro; and Fukumi, Hirokazu, 3,686,260.
Ishida, Shinichi; Oshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; and Kurita, Kunio, 3,651,015.
Ishida, Shinichi; Oshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; Kurita, Kunio; Ohki, Hayashi; Sato, Kunio; Nagamatsu, Kazuo; and Tokushige, Akira, 3,654,228.
Ishida, Shinichi; Fujita, Norimasa; Oshima, Yoshisada; Tanaka, Teturo; and Hiruta, Mitto, 3,657,189.
Ishida, Shinichi; Yano, Nobumitsu; Oshima, Noboru; Fukuda, Hiromichi; and Sato, Takeshi, 3,696,170.
Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Kusunose, Tethiro; Tsumaki, Tatsuchi; and Ota, Masami, 3,705,877.
Kai, Tsunetoshi; Hagihara, Takeaki; and Ishido, Teruhisa, 3,677,920.
Kashima, Hiroshi; Tomizuka, Katsushige; and Uozumi, Yoshinobu, 3,688,358.
Kato, Masaaki; and Sato, Shigeta, 3,704,218.
- Katsuyama, Shigeo; Asami, Atsumi; Watanabe, Masahide; Sato, Tsutomu; Norimatsu, Toshiaki; and Nakajima, Eizo, 3,672,819.
- Kobayashi, Hidehiko; and Komito, Hiroshi, 3,642,697.
- Kobayashi, Hidehiko; Sasaguri, Kiichiro; Komoto, Hiroshi; and Kawashima, Sukeo, 3,654,225.
- Kobayashi, Hidehiko; Sasaguri, Kiichiro; Oimachi, Irumagun; Neki, Kazuya; and Tanimura, Noboru, 3,689,623.
- Kominam, Naoya; Tamura, Nobuhiro; and Yamamoto, Etsuo, 3,689,583.
- Matsuda, Shogo; Shimodoi, Yutaka; Yamada, Hiraku; and Takao, Kiyoshi, 3,644,081.
- Matsuda, Shogo; Shimodoi, Yutaka; Oshima, Takeo; and Ochi, Kazushi, 3,653,806.
- Mimura, Akio; Kawano, Takatsugu; and Yamaga, Kanshi, 3,660,278.
- Nagamatsu, Kazuo; Yoshino, Masatsugu; Konno, Tsugio; and Ishida, Shinichi, 3,647,743.
- Nakahara, Yasuji; Ohmura, Jukichi; and Horinaka, Ryoji, 3,666,708.
- Nakahara, Yasuji; Ichikawa, Kiyoshi; and Kondo, Kunio, 3,694,396.
- Nakamura, Katsuyuki; Tanabe, Masanori; Mizoguchi, Yoshiyuki; and Fukuda, Hirohisa, 3,636,174.
- Nogami, Sumitaka; Ishigami, Masaki; and Kurita, Jiro, 3,701,816.
- Ohfuka, Toshio; Sato, Hideo; and Sagara, Kazunori, 3,636,187.
- Ohfuka, Toshio; Ichikawa, Yasushi; and Sugaya, Yoshiharu, 3,651,013.
- Ohfuka, Toshio; Ichikawa, Yasushi; and Ueda, Takeshi, 3,691,110.
- Seko, Maomi; Takahashi, Yasunobu; Iwamoto, Takeaki; and Seno, Shikazo, 3,647,855.
- Seko, Maomi; Yomiyama, Akira; Miyake, Tetsuya; Nakagawa, Koji; Yoshida, Munee; and Inada, Koji, 3,657,099.
- Seko, Maomi; Yomiyama, Akira; Takahashi, Yasunobu; Seta, Shigetoshi; and Nakagawa, Koji, 3,664,936.
- Seko, Maomi; Yomiyama, Akira; Miyake, Tetsuya; and Iwashita, Hidemaro, 3,673,068.
- Seko, Maomi; Ogawa, Shinsaku; Komori, Ryozi; Asuma, Masaro; Isoya, Toshiro; and Sakai, Takamasa, 3,674,653.
- Seko, Maomi; Yomiyama, Akira; Ogawa, Shinsaku; Tetsuya, Miyake; Ryozi, Komori; and Norito, Ogawa, 3,682,792.
- Seko, Maomi; Yomiyama, Akira; Ogawa, Shinsaku; Miyake, Tetsuya; Isoya, Toshiro; and Nakagawa, Koji, 3,682,793.
- Senoo, Saburo; Kato, Toshio; Imai, Norio; and Kurihara, Masakazu, 3,642,867.
- Senoo, Saburo; Fukuoka, Yohei; and Sasaki, Katuyoshi, 3,674,851.
- Shichijo, Yoshihisa; and Tsujihara, Mamoru, 3,674,416.
- Suzuki, Isamu; Ichikawa, Kiyoshi; Ohmura, Jyukichi; and Iwashita, Hidemaro, 3,642,703.
- Suzuki, Isamu; Ichikawa, Kiyoshi; Nakahara, Yasuji; and Kondo, Kunio, 3,645,976.
- Tabata, Yoneho; Oizumi, Chihiro; and Otani, Sugio, 3,681,023.
- Takahasi, Hiroshi; Tanabe, Masanori; Yamaguchi, Muneaki; and Shihara, Isao, 3,644,548.
- Takata, Toyoharu; Fujii, Keisuke; Yano, Nobumitsu; Fukushima, Masao; Nagayoshi, Fumio; and Mizuno, Aiko, 3,692,768.
- Takeda, Isao; Iguchi, Takashi; Tsuzuki, Katsuaki; and Nakano, Tooru, 3,658,647.
- Takeda, Isao; Iguchi, Takashi; and Nakano, Tooru, 3,674,640.
- Terasaki, Iwao; Kimura, Yoshio; Okamoto, Toshio; Shima, Tsukasa; Kohno, Mitsuo; and Kitamura, Kazuyuki, 3,669,927.
- Tsuchida, Eishun, 3,654,260.
- Ueda, Haruo; Sugi, Masanao; and Chayamichi, Hiroshi, 3,677,492.
- Yamaguchi, Hiroyuki; Tuji, Katsuyoshi; Maki, Kenji; and Shimonishi, Isao, 3,679,355.
- Yamaguchi, Koretaka; Toyomoto, Kazuo; and Sakamoto, Kuniki, 3,700,755.
- Yano, Nobumitsu; Fukushima, Masao; Fukinbara, Itaru; and Kishi, Masanori, 3,681,374.
- Yasui, Koichi; Yamamoto, Kazuo; Itami, Kazuo; Fujisawa, Kiyoshi; and Sakai, Toshio, 3,671,279.
- Yoshida, Mitsuo; Kai, Hisao; and Yamane, Tetsuo, 3,654,104.
- Asahi Kasei Kogyo Kabushiki Kaisha: See—
Honda, Makoto; and Sato, Kenichiro, 3,683,047.
- Asahi Kogaku Kogyo Kabushiki Kaisha: See—
Kurei, Hiroshi, 3,643,572.
Kurei, Hiroshi, 3,668,993.
Mita, Kunio, 3,631,777.
Mita, Kunio, 3,695,159.
Miyakawa, Seinan, 3,695,157.
Mori, Chiharu; and Nakajima, Toru, 3,670,637.
Mori, Chiharu; and Ota, Katsumi, 3,678,826.
Mori, Chiharu; and Ota, Katsumi, 3,690,230.
Moriyama, Itsuki, 3,685,418.
Nishikawa, Yukiyasu; and Hidaka, Tsuneo, 3,676,692.
Nobusawa, Tsukumo, 3,643,563.

- Nobusawa, Tsukumo, 3,657,979.
Nobusawa, Tsukumo, 3,672,753.
Nobusawa, Tsukumo, 3,678,825.
Nobusawa, Tsukumo, 3,683,766.
Nomura, Katsuhiko, 3,640,202.
Nomura, Katsuhiko; Watanabe, Koichiro; and Urano, Fumio, 3,650,191.
Nomura, Katsuhiko, 3,680,458.
Nomura, Katsuhiko, 3,690,241.
Okura, Zenichi, 3,680,459.
Tokutomi, Seiji, 3,682,056.
Umemura, Yukio, 3,646,859.
Umemura, Yukio, 3,648,581.
Uno, Naoyuki; and Watanabe, Koichiro, 3,657,982.
Uno, Naoyuki, 3,657,985.
Uno, Naoyuki; and Tokutomi, Seiji, 3,680,457.
Uno, Naoyuki; and Tokutomi, Seiji, 3,681,649.
Uno, Naoyuki; and Tokutomi, Seiji, 3,684,917.
Uno, Naoyuki; and Urano, Fumio, 3,688,670.
Uno, Naoyuki; and Tokutomi, Seiji, 3,706,266.
Urano, Fumio, 3,659,508.
Watanabe, Koichiro, 3,687,044.
Asahi Kogyo Kabushiki Kaisha: See—
Ohfuka, Toshio; Sato, Hideo; and Uchida, Yasuo, 3,686,019.
Asahi, Matahiko; Murakami, Hisamichi; Hasegawa, Yukio; Matsui, Hideo; and Takayanagi, Eifu, to Mitsui Toatsu Chemicals, Incorporated. Combined process for dyeing and finishing fabrics composed of cellulosic fibers. 3,679,348, 7-25-72, Cl. 8-18.000.
Asahi Optical Company, Ltd.: See—
Nakajima, Tohru; Tashiro, Susumu; Tsukatani, Kenmi; and Mori, Koichi, 3,645,180.
Asahi Stereorama Co., Ltd.: See—
Calabug, Andre, 3,633,301.
Yin, Law Chi, 3,684,370.
Asahidenka Kogyo Kabushiki Kaisha: See—
Ueda, Tadao; Sato, Kenji; and Nakamura, Yasusi, 3,674,426.
Asahikasei Kogyo Kabushiki Kaisha: See—
Izawa, Shin-ichi; Nakamura, Katsuyuki; and Mizoguchi, Yoshiyuki, 3,670,033.
Asahina, Michio: See—
Yamamura, Katsumi; Harigaya, Hiroshi; Kasai, Kazutomo; and Asahina, Michio, 3,677,744.
Asahina, Mitsuo: See—
Tamura, Masahiko; Iwama, Kiyonori; Asahina, Mitsuo; and Okuda, Kensuke, 3,646,280.
Asahina, Mitsuo, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for producing stable electret consisting of a crystalline high molecular weight material. 3,691,264, 9-12-72, Cl. 264-22.000.
Asai, Hidekazu, to Yoshida Kogyo Kabushiki Kaisha. Slider for zip fasteners. 3,641,634, 2-15-72, Cl. 24-205.15.
Asai, Mitsuko: See—
Higashide, Eiji; Hasegawa, Toru; Ono, Hideo; Asai, Mitsuko; Muroi, Masayuki; and Kishi, Toyokazu, 3,691,280.
Asai, Norio: See—
Okada, Tomio; and Asai, Norio, 3,701,797.
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Niskanen, Toivo Johannes, 3,634,188.
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Hiraga, Kentaro; Asako, Tsunehiko; and Miki, Takuichi, 3,689,564.
Asakuno, Hiroyoshi: See—
Hino, Hiroyuki; Asakuno, Hiroyoshi; and Yamada, Tetsuya, 3,678,545.
Asakura, Kouichi: See—
Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara, Yoshiteru; and Asakura, Kouichi, 3,668,917.
Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara, Yoshiteru; and Asakura, Kouichi, 3,703,093.
Asakura, Masami: See—
Fujii, Kenzo; Kanai, Kazumichi; Inoue, Shigeru; Matsuo, Kiyoshi; and Asakura, Masami, 3,683,057.
Asakura, Tatsumi: See—
Kusunoki, Kaneyoshi; Asakura, Tatsumi; Nakakawa, Masahiro; Komatsu, Noboru; and Arai, Tohru, 3,680,626.
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Asami, Shojiro: See—
Miura, Yotaro; and Asami, Shojiro, 3,688,059.
Asami, Tomiaki: See—
Maryama, Shoji; Saito, Tadashi; and Asami, Tomiaki, 3,695,885.
Asano Bosai Kogyo Kabushiki Kaisha: See—
Matsui, Masatoshi, 3,644,913.
Asano, Choichi: See—
Sasaki, Ryoichi; and Asano, Choichi, 3,682,717.
Asano, Hidejiro: See—
Nishihara, Toshiro; Asano, Hidejiro; Maeda, Shigeyoshi; and Oyagi, Yashichi, 3,704,181.
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Oga, Shunichiro; Asano, Kazuo; and Imada, Katsumi, 3,654,316.
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Arai, Tadashi; Asano, Kiro; and Yamada, Jun, 3,702,054.
Araki, Tadashi; Takita, Hitoshi; and Asano, Kiro, 3,666,417.
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Asano, Shinji: See—
Taguchi, Youichi; and Asano, Shinji, 3,640,797.
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Baxter, Larry K.; and Asano, Shintaro, 3,670,103.
Asano, Tadao: See—
Hirozawa, Koichiro; and Asano, Tadao, 3,677,104.
Asano, Toshiaki; Uenaka, Kazushige; and Usami, Tomomasa, to Fuji Photo Film Co., Ltd. Pre-development process for reducing fog in silver halide photographic materials. 3,652,278, 3-28-72, Cl. 96-61.
Asano, Yuichiro: See—
Kamiya, Osamu; Asano, Yuichiro; and Kanai, Tomiyoshi, 3,650,005.
Asaoka, Junichi: See—
Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, 3,647,552.
Yamamoto, Shohci; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, 3,655,449.
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Asato, Goro: See—
Berkelhammer, Gerald; and Asato, Goro, 3,666,860.
Berkelhammer, Gerald; Asato, Goro; and Moon, Edward Leslie, 3,674,780.
Kemp, Gordon Arthur; Bachmann, Howard John; Berkelhammer, Gerald; and Asato, Goro, 3,655,890.
Asato, Goro; Berkelhammer, Gerald; and Gastrock, William Henry, to American Cyanamid Company. Substituted 5-nitroimidazoles. 3,649,638, 3-14-72, Cl. 260-309.
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Asbelle, Charles C.: See—
Galloway, Dwight V.; King, Gordon E.; Asbelle, Charles C.; and Arrigo, Michael F., 3,703,894.
Asbelle, Charles C.; Arrigo, Michael F.; Hunting, Kenneth E.; and Helmut, Gene R., to United States of America, Navy. Variable friction knee unit with an improved swing phase control of artificial legs. 3,673,613, 7-4-72, Cl. 3-27.000.

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Asbestos Corporation: See—
Nicol, John Paul, 3,661,603.
Asbestos Grading Equipment Company (South Africa) (Proprietary) Limited, The: See—
Bourne, Ronald F., 3,648,442.
Asbill, Clarence M.; and Heidelberg, Frederic H., said Asbill, Clarence M., assor. to said Heidelberg, Frederic H. Cigarette machine and method of manufacturing cigarettes. 3,646,942, 3-7-72, Cl. 131-65.
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Aschberger, Anton A.: See—
Erlandson, Paul M.; Aschberger, Anton A.; Roth, Donald J.; Cary, John T.; and Bartimes, George F., 3,652,818.
Erlandson, Paul M.; Aschberger, Anton A.; and Cary, John T., 3,678,241.
Aschberger, Anton A.; and Bartels, Herbert D., to Continental Can Company, Inc. Can welding index. 3,654,810, 4-11-72, Cl. 74-54.
Asche, Henning, to Ciba-Geigy AG. Tooth-paste. 3,691,272, 9-12-72, Cl. 424-57.000.
Aschenasy, Herbert; Schuler, John Joseph, Jr.; and Bower, Jerry Efton, to Celanese Coatings Company. Electrodeposition coatings from amine salts of vinyl modified fatty acids. 3,677,984, 7-18-72, Cl. 260-21.000.
Asco, Inc.: See—
Sorenson, Judson Olbert, 3,698,065.
Asel, Ludwig: See—
Hetmann, Richard; Stotz, Erich; Asel, Ludwig; and Arnold, Karl, 3,635,303.
Asen, Donald B., to Bev Maid, Inc. Cup assembly. 3,669,001, 6-13-72, Cl. 99-78.000.
Aser, Gilbert A.; and Sullivan, William A., to Xerox Corporation. Xerographic duplex technique. 3,687,541, 8-29-72, Cl. 355-14.000.
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Zalyalien, Mansur Abdullovich; Asfandiyarov, Khalim Akhmetovich; Gubarev, Yakov Fedorovich; and Arzamastsev, Filipp Grigorievich, 3,693,934.
Ash, Albert H.: See—
Bunting, Charles W.; Fortman, William R.; and Ash, Albert H., 3,658,318.
Ash, Arthur B.; and Stevens, Calvin L., to Stevens, Ash, Inc. Alpha, alpha-dimethyl-beta, beta-dimercapto-n-lower alkyl-(phenyl and substituted phenyl) ethylamines. 3,694,498, 9-26-72, Cl. 260-570.50s.
Ash, Bernard Edwin, to International Standard Electric Corporation. Adhesive applicator. 3,653,552, 4-4-72, Cl. 222-146.
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Ash, Bertrand Donahay: See—
Starcher, Paul Spencer; and Ash, Bertrand Donahay, 3,681,438.
Ash, David J.: See—
Hodgson, William W.; and Ash, David J., 3,666,486.
Ash, Eric A.; and Tseng, Samuel Chin-Chong, to International Business Machines Corporation. Surface waveguiding in ceramics by selective poling. 3,699,482, 10-17-72, Cl. 333-30.000.
Ash, Leonard P.: See—
Garratt, Joseph A.; and Ash, Leonard P., 3,673,529.
Ashar, Kanu G., to International Business Machines Corporation. Method of making pedestal transistor having minimal side injection. 3,677,837, 7-18-72, Cl. 148-175.000.
Ashbrook, Clifford L. Bullet puller. 3,646,661, 3-7-72, Cl. 29-275.
Ashbrook, Clifford Logan; and Wing, Wilson Gordon. Muzzle choke. 3,676,947, 7-18-72, Cl. 42-79.000.
Ashbrook Corporation: See—
Albritton, George Washington, 3,640,514.
Ashbrook, Richard L.: See—
Freche, John C.; Waters, William J.; and Ashbrook, Richard L., 3,702,791.
Ashby, Carl T.; Berry, James W.; and Deutschman, Archie J., Jr., to Owens-Illinois, Inc. Recovery of copper from copper ore. 3,701,648, 10-31-72, Cl. 75-72.000.
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Ashby, Eugene C.; and Kobetz, Paul, to Ethyl Corporation. Di (alkali metal) beryllium tetrahydrides. 3,647,399, 3-7-72, Cl. 23-360.
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Ashby, Frederick R.: See—
Luebs, Donald F.; and Ashby, Frederick R., 3,703,198.
Ashby, George E.: See—
Patil, Arvind S.; and Ashby, George E., 3,698,891.
Ashby, Robert L. Clutch rebuilding and testing mechanism. 3,654,805, 4-11-72, Cl. 73-118.
Ashcombe Products Company: See—
Munchel, Eugene A.; and Thornton, Henry M., 3,679,319.
Ashcraft, Bruce E.; and Ashcraft, Clarence S., Jr., to Ashcraft, C. S., Manufacturing Company, Inc. Arc ignition systems. 3,705,326, 12-5-72, Cl. 314-34.000.
Ashcraft, C. S., Manufacturing Company, Inc.: See—
Ashcraft, Bruce E.; and Ashcraft, Clarence S., Jr., 3,705,326.
Ashcraft, Charles Ray, to Johnson & Johnson. Resin composition containing a polyacrylic acid-polyacrylamide copolymer and method of using the same to control resin deposition. 3,647,507, 3-7-72, Cl. 117-38.
Ashcraft, Clarence S., Jr.: See—
Ashcraft, Bruce E.; and Ashcraft, Clarence S., Jr., 3,705,326.
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Ashdec Corporation: See—
Koch, Robert L., II; and Tredwell, Gilman, 3,640,814.
Koch, Robert L., II; and Muehlbauer, James H., 3,660,266.
Ashdown, Neil Clifford; and Groutsch, Eugene Reginald, to Electrolytic Zinc Company of Australia Limited. Furnaces. 3,672,650, 6-27-72, Cl. 266-33.00r.
Ashe, Anthony Grenfell: See—
Howells, Francis Thomas; and Ashe, Anthony Grenfell, 3,674,040.
Asher, John W.; and Herczog, Andrew, to Corning Glass Works. Method for obtaining the dielectric constant of frit capacitors. 3,699,620, 10-24-72, Cl. 29-25.42.
Asher, William J., to Esso Research and Engineering Company. Selective adsorption process using a pressure oscillation system. 3,636,118, 1-18-72, Cl. 260-674.
Ashford, John Wesley: See—
Holm, Robert Leander; and Ashford, John Wesley, 3,679,929.
Ashibe, Makoto: See—
Notani, Masaaki; Ashibe, Makoto; Nishitani, Yasuo; and Mirara, Keiziro, 3,636,253.
Ashida, Hiroshi, to Hitachi Shipbuilding and Engineering Co., Ltd. Method for constructing cylindrical structures such as steel chimneys. 3,694,893, 10-3-72, Cl. 29-431.000.
Ashida, Keiichi: See—
Okamoto, Miyoshi; Ashida, Keiichi; and Watanabe, Koji, 3,692,423.
Ashijawa Iron Works Co., Ltd.: See—
Kono, Motomi; and Ohtomi, Hiroshi, 3,684,093.
Ashikaga, Tadao; and Kousaka, Susumu, to Kurashiki Rayon Co., Ltd. Process for producing polyvinyl alcohol filaments. 3,660,556, 5-2-72, Cl. 264-185.
Ashikaga, Tadao; and Higashimori, Shosuke, to Kurashiki Rayon Co., Ltd. Process for the production of water-resistant paper or non-wovens containing water soluble polyvinyl alcohol. 3,679,544, 7-25-72, Cl. 162-157.00r.
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Ashiya, Masahiro, to Mitsubishi Denki Kabushiki Kaisha. Control system for electric vehicles. 3,663,875, 5-16-72, Cl. 318-52.
Ashiya, Ryosuke: See—
Naruse, Oyhsuke; Ashiya, Ryosuke; Nii, Takehiko; and Fuse, Yuzo, 3,705,322.
Naruse, Yohsuke; Ashiya, Ryosuke; Nii, Takehiko; and Fuse, Yuzo, 3,686,525.
Ashizaki, Shigea: See—
Egawa, Susumu; Ashizaki, Shigea; Shimizu, Katsumi; and Miyati, Toshiko, 3,700,954.
Ashizawa, Naoyoshi. Apparatus for making granules. 3,632,257, 1-4-72, Cl. 18-1.
Ashkin, Arthur; and Kogelnik, Herwig W., to Bell Telephone Laboratories, Incorporated. Frequency selective laser devices. 3,638,139, 1-25-72, Cl. 331-94.5.
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Budde, Walter M., Jr.; and Hartlage, James A., 3,637,711.
Culbertson, Billy M., 3,642,711.
Culbertson, Billy M., 3,661,849.
Hinson, Fletcher A., Jr., 3,649,207.
Kmecak, Ronald A.; and Kovach, Stephen M., 3,692,863.
Kovach, Stephen M.; and Patrick, Ralph E., 3,642,927.
Patrick, Ralph E.; Kmecak, Ronald A.; and Kovach, Stephen M., 3,686,340.
Robin, Michael; and Schulte, Sheldon R., 3,676,530.
Robin, Michael; and Schulte, Sheldon R., 3,700,666.
Rozman, George J., 3,647,900.
- Ashland Oil, Inc.: See—
Aelony, David; and McKillip, William James, 3,705,154.
Carpenter, David B.; and Thompson, Edward A., 3,697,414.
Chapman, Duane K.; Green, William S.; and Newman, John W., 3,642,926.
Clocker, Edwin T., 3,679,182.
Culbertson, Billy M.; McKillip, William J.; and Sedor, Edward A., 3,641,145.
French, Calvin G., 3,648,639.
French, William H.; and Ossanna, Oliver A., 3,668,091.
French, William H.; and Ossanna, Oliver A., 3,668,092.
French, William H.; and Rushton, Brian M., 3,701,767.
Grimm, Robert A.; and Slagel, Robert C., 3,644,442.
Guyer, Vernon L.; and Schafer, Robert J., 3,637,577.
Hartlage, James A.; and McKillip, William J., 3,706,800.
Hinson, Fletcher A., Jr., 3,637,436.
Hughes, Graham K., 3,660,459.
Hunter, Wesley L., 3,656,275.
Kmecak, Ronald A.; Kovach, Stephen M.; and Patrick, Ralph E., 3,679,768.
Kmecak, Ronald A.; and Kovach, Stephen M., 3,679,769.
Kmecak, Ronald A.; and Kovach, Stephen M., 3,699,181.
Kovach, Stephen M.; and Patrick, Ralph E., 3,649,517.
Kovach, Stephen M.; and Kmecak, Ronald A., 3,679,773.
Kovach, Stephen M.; Patrick, Ralph E.; and Kmecak, Ronald A., 3,700,745.
McKillip, William J.; Culbertson, Billy M.; and Impola, Clarence N., 3,640,676.
McKillip, William J.; and Clemens, Lawrence M., 3,706,797.
Nordstrom, John David, 3,674,838.
Olsen, Douglas A.; and Osteraas, A Jean, 3,666,536.
Peloza, Casimir C., 3,666,697.
Robins, Janis, 3,632,844.
Robins, Janis, 3,639,654.
Robins, Janis, 3,676,392.
Robins, Janis, 3,702,316.
Rodriguez, Jaime, 3,639,315.
Rozman, George J., 3,639,496.
Schmidt, Robert L.; and Beckman, Hubert J., 3,692,620.
Sedor, Edward A.; and Slagel, Robert C., 3,671,473.
Shepler, Terry H.; and Lord, Donald S., 3,651,210.
Slagel, Robert C., 3,664,990.
Taft, David D., 3,661,827.
Throckmorton, Peter E., 3,644,404.
Williams, David C., 3,646,595.
Williams, David C., 3,657,400.
Yurick, Peter A.; and Bills, Charles Tyler, 3,698,935.
- Ashley, Albert H.: See—
Abbott, Matthew C.; Ashley, Albert H.; and Garrigus, Kenneth A., 3,666,970.
- Ashley, Albert H., to Sylvania Electric Products, Inc., mesne. Memory system. 3,641,519, 2-8-72, Cl. 340-174.
- Ashley, Allan J.: See—
Landmark, Kenneth L.; and Ashley, Allan J., 3,698,141.
- Ashley, Eugene; Tassie, Douglas P.; and Seemann, James M., to General Electric Company. Multibarrel automatic weapon. 3,698,283, 10-17-72, Cl. 89-12.000.
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- Ashley, Kenneth, to Hymatic Engineering Company Limited, The. Rechargeable gas cleaners. 3,683,596, 8-15-72, Cl. 55-359.000.
- Ashley, Kenneth F.: See—
Martins, Joseph G.; and Ashley, Kenneth F., 3,650,999.
- Ashley, Milton V., Jr.: See—
Benson, Harvey R.; and Ashley, Milton V., Jr., 3,695,142.
- Ashley, Thomas S.: See—
Glance, Patrick M.; and Ashley, Thomas S., 3,638,164.
- Ashlow Steel & Engineering Company Limited: See—
Ashton, George Walker; and Ashton, John Congreve, 3,640,109.
- Ashman, Leland E.; and Menashi, Wilson P., to Little, Arthur D., Inc. Treatment of surface with low-pressure plasmas. 3,701,628, 10-31-72, Cl. 21-54.00r.
- Ashmead, Albert S.; and Shepard, Richard W., to Torrington Company, The. Package for elongated elements. 3,647,057, 3-7-72, Cl. 206-17.
- Ashtabula Bow Socket Company: See—
Baginski, Martin R., 3,701,291.
- Ashton, Albert A., to Youngstown Sheet and Tube Company. Three-position crown block. 3,652,058, 3-28-72, Cl. 254-190.
- Ashton, Clark L.; Hays, Robert G.; and Pennell, Ronald C., to Motorola, Inc. Method of diffusing impurities into selected areas of a semiconductor. 3,681,154, 8-1-72, Cl. 148-187.000.
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- Ashton, Harold P.: See—
Swett, James B.; and Ashton, Harold P., 3,700,204.
- Ashton, Harold P.; and Swett, James B., to Dart Industries, Inc. Food grater. 3,698,460, 10-17-72, Cl. 146-180.000.
- Ashton, John Congreve: See—
Ashton, George Walker; and Ashton, John Congreve, 3,640,109.
- Ashton, Neil: See—
Porter, Kenneth E.; Ellis, Stephen R. M.; Ashton, Neil; and Hands, Clifford H. G., 3,687,818.
- Ashton, Philip E. Hydraulic press. 3,673,800, 7-4-72, Cl. 60-54.5ha.
- Ashton, Robert: See—
Weber, Wilbert D.; and Ashton, Robert, 3,693,330.
- Ashton, Shirley B.: See—
McLain, Bruce H.; Sallee, John P.; and Ashton, Shirley B., 3,665,679.
- Ashton, Stanley; and Nicholson, Eric Samuel, to Imperial Chemical Industries Limited. Manufacture of hexahydrotriazine stabilisers. 3,665,004, 5-23-72, Cl. 260-248.0ns.
- Ashton, Walter G.: See—
Meyer, Leonard; Ashton, Walter G.; and Siegle, James E., 3,701,177.
- Ashton, Walter G., to Star Industries, Inc. Self-propelled floor scrubber. 3,639,936, 2-8-72, Cl. 15-94.
- Ashton, William B.: See—
Coleman, Richard L.; Cummins, Billy H.; and Ashton, William B., 3,684,684.
Cummins, Billy H.; Ashton, William B.; Coleman, Richard L.; and Odell, Norman R., 3,702,817.
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- Ashworth, Brian Thomas; Harper, Donald; and Hill, Peter, to Imperial Chemical Industries Limited. Vulcanisation process. 3,642,727, 2-15-72, Cl. 260-79.5.
- Ashworth Bros., Inc.: See—
Roinestad, Gerald C., 3,682,295.
- Ashworth, Edward Arnold: See—
Lythe, Revor Wilkinson; and Ashworth, Edward Arnold, 3,640,518.
- Ashworth, James E., to United States Steel Corporation. Internal coupling for connecting U-shaped rails. 3,671,062, 6-20-72, Cl. 287-127.000.
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- Ashworth, Roger Anderton: See—
Blake, John Berchmans; and Ashworth, Roger Anderton, 3,664,474.
- Asick, John Carl: See—
Kinkaid, Robert John; and Asick, John Carl, 3,696,323.
- Asick, John Carl: See—
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- Aske, Charles B., Jr. Vehicle wheel trim. 3,671,076, 6-20-72, Cl. 301-37.00r.
- Aske, Robert L., to Honeywell Inc. Control apparatus. 3,636,880, 1-25-72, Cl. 102-71.
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- Askew, Warren S.; and Marrs, Richard E., to Amoco Production Company. Solubilized oil-water solutions suitable for miscible flooding. 3,698,479, 10-17-72, Cl. 166-273.000.
- Askew, William J., to LTV Aerospace Corporation. Unijunction transistor artificial neuron. 3,691,400, 9-12-72, Cl. 307-201.000.
- Askins, Ralph W. Cigarette receptacle and extinguisher. 3,675,662, 7-11-72, Cl. 131-235.
- Askins, Robert E.; and Roys, George P., to Thiokol Chemical Corporation. Test apparatus for combustion evaluation. 3,701,278, 10-31-72, Cl. 73-35.000.
- Askins, William J., to Massey-Ferguson Inc. Earthworking vehicle. 3,642,159, 2-15-72, Cl. 214-764.
- Aslan, Edward E., to Narda Microwave Corporation, The. Near-field radiation monitor. 3,641,439, 2-8-72, Cl. 325-363.
- Aslan, Edward E., to Narda Microwave Corporation, The. Zero temperature drift electrothermic units. 3,668,521, 6-6-72, Cl. 324-106.000.
- Aslanian, Gurken Nazarovich: See—
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- Asmus, Rodger W.: See—
Swanson, William C.; Moyer, Donald W.; and Asmus, Rodger W., 3,699,678.
- Asmus, Rodger W.; and Borghoff, William R., to International Harvester Company. Control for a hydrostatic transmission. 3,667,226, 6-6-72, Cl. 60-53.
- Asmus, Rodger W., to International Harvester Company. Low effort shuttle block selector spool modification for the manual feathering control and overspeed control for a hydrostatic transmission. 3,675,421, 7-11-72, Cl. 60-53.00r.
- Asmus, Rodger W., to International Harvester Company. Anti-coast valve addition to the manual feathering control for a hydrostatic transmission. 3,699,677, 10-24-72, Cl. 60-53.00r.
- Asmussen, Daniel R., to United Control Corporation. Demodulator for angularly related signals. 3,676,659, 7-11-72, Cl. 235-186.000.
- Asmussen, Daniel R., to Tel-Tone Corporation. Pulse ratio detector. 3,705,417, 12-5-72, Cl. 307-234.000.
- Asmussen, Hans P. Snowmobile with banking control. 3,650,341, 3-21-72, Cl. 180-5.
- Aso, Chuji; Kunitake, Toyoki; and Uchio, Hakaru, to Asahi Kasei Kogyo Kabushiki Kaisha. Poly-cis-1,2-divinylcyclohexane and method for preparing the same. 3,642,757, 2-15-72, Cl. 260-93.1.
- Aso, Kotaro: See—
Mimura, Norihisa; Chikamasa, Hiroshi; Aso, Kotaro; and Sato, Takashi, 3,648,984.
- Aspden, Derek: See—
Hoyle, John; and Aspden, Derek, 3,635,070.
- Aspden, Robert G.: See—
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- Aspden, Ronald, to Itek Corporation. Adjustable lap. 3,662,499, 5-16-72, Cl. 51-204.
- Aspden, Ronald, to Itek Corporation. Optical surface generating apparatus. 3,676,960, 7-18-72, Cl. 51-165.710.
- Aspel, Thomas E. Orthodontist wire marking device. 3,667,129, 6-6-72, Cl. 33-189.
- Asper, Jean-Jacques, to Brasco S.A. Filtration apparatus and method. 3,679,052, 7-25-72, Cl. 210-75.000.
- Asper, Theodor. Vending system using a value storing key. 3,670,924, 6-20-72, Cl. 222-2.000.
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- Aspinall, David: See—
Ibbett, Roland Norman; and Aspinall, David, 3,640,625.
- Aspro-Nicholas Limited: See—
File, Harold Thomas, 3,674,140.
- Gittos, Maurice Ward; James, John William; and Verge, John Pomfret, 3,652,570.
- James, John W.; and Stevens, Robert, 3,689,540.
- Asrican, Manfred, to Instrumentation for Medicine Inc. Illuminated surgical retractor. 3,680,546, 8-1-72, Cl. 128-18.000.
- Assarsson, Per Gunnar, to Union Carbide Corporation. Disposable articles. 3,664,343, 5-23-72, Cl. 128-284.
- Assauer, Helmut, to Kobo Kohler & Bovenkamp G.m.b.H., Firma. Conveyor, particularly for chips. 3,659,702, 5-2-72, Cl. 198-221.
- Asscher, Meir; Katchalsky, Aharon; and Vofsi, David, to Yeda Research and Development Co., Ltd. Production of adducts of carbon tetrachloride or chloroform with olefinically unsaturated substances. 3,651,019, 3-21-72, Cl. 260-77.
- Asselborn, Peter: See—
Levacher, Friedrich; Ditscheid, Hans Leo; Burger, Walter; Asselborn, Peter; and Cramer, Werner, 3,672,196.
- Asselman, George Albert Apollonia: See—
Dirne, Adrianus Petrus; Asselman, George Albert Apollonia; and van der As, Herman Henricus Maria, 3,702,533.
- Assembly Cloth Company: See—
Rosen, Sol A., 3,666,610.
- Assenmacher, Peter: See—
Herzhoff, Peter; Gref, Hans; Wolfgang, Leverkusen; Frenken, Hans; Assenmacher, Peter; and Westen, Dietmar, 3,677,076.
- Assenza, Fred J.: See—
Sequerra, Richard I.; Smith, Sidney S.; Assenza, Fred J.; and Greenbaum, William H., 3,691,365.
- Assmann, Karl H., to Messerschmitt-Bolkow-Blohm G.m.b.H. Closable air intake duct mounted on the fuselage and open in the direction of flight. 3,667,704, 6-6-72, Cl. 244-53.
- Assmus, Friedrich: See—
Ganter, Wolfgang; Assmus, Friedrich; and Sonntag, Manfred, 3,697,766.
- Assmus, Friedrich; Flaig, Hans; Dietrich, Dieter; and Hartner, Leo, to Gebruder Junghans G.m.b.H. Electric signaling device for alarm clocks. 3,644,689, 2-22-72, Cl. 200-11.
- Assmus, Friedrich; and Ganter, Wolfgang, to Gebruder Junghans G.m.b.H., Firma. Driving circuit for a time-keeping device. 3,665,271, 5-23-72, Cl. 318-138.000.
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- Assmus, Fritjof Hans; and Knitter, Heinz, to Bunker-Ramo Corporation, The. Piggy back connector. 3,693,139, 9-19-72, Cl. 339-217.00r.
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Brookes, Kenneth A., 3,660,657.
- Browning, George William, 3,671,742.
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- Davidson, David Fulton; and Irving, Brian Arthur, 3,705,735.
- Evans, Sydney; and Graham, Reginald, 3,657,531.
- Fawdrey, Cecil Arthur; Simms, John Robert; Kenworthy, Derek; Roxburgh, Albert; and Hobbs, David, 3,683,141.
- Green, Brian Noel; and Barber, Michael, 3,689,764.
- Hill, Anthony, 3,657,605.
- Lucas, Jeffrey H., 3,643,091.
- Lucas, Jeffrey Harvey, 3,702,399.
- Powers Patrick; Graham, Reginald; and Bingham, Richard Albert, 3,686,683.
- Wardell, Ian Robert Michael, 3,660,655.
- Associated Engineering Limited: See—
Bemrose, Colin R., 3,670,812.
- Levington, Henry John; and Clark, Charles Keith, 3,673,846.
- Raggi, Lodovico, 3,633,555.
- Associated Lead Manufacturers Limited: See—
Davis, Walter Dennis, 3,677,926.
- Pearson, Derek Gordon, 3,668,144.
- Associated Pulp and Paper Mills Limited: See—
Sloman, Arthur Raymond, 3,652,384.
- Associated Research Laboratories (Proprietary) Limited: See—
Zawels, Jakob; and Renaud, Eric D., 3,641,685.
- Associated Spring Corporation: See—
Bush, Elmer Crosby, 3,653,103.
- Association de l'Ecole Catholique d'Arts et Metiers de Lyon: See—
Bousquet, Gilles; and Rambert, Andre, 3,696,446.
- Association des Ouvriers en Instruments de Precision: See—
Bono, David; and Prud'Hon, Lucien, 3,705,015.
- Association pour la Recherche et le Developpement des Methodes et Processus Industriels A.R.M.I.N.E.S.: See—
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- Assour, Jacques Mayer, to RCA Corporation. Avalanche diode. 3,696,272, 10-3-72, Cl. 317-234.000.
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Carbonaro, Antonio; Greco, Alberto; Asta, Gino Dall; and Cameli, Nazzareno, 3,699,088.
- Asta, Leone Dall: See—
Pedrazzoli, Andrea; and Asta, Leone Dall, 3,702,850.
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Arnold, Herbert; Brock, Norbert; Kuhas, Engelbert; Lenke, Dieter; and Pohle, Hans, 3,686,311.

- Astafiev, Georgy Vasilievich; Korolkov, Ivan Alexandrovich; and Ozhgikhin, Anatoly Nikolaevich. Surgical apparatus for suturing tissue with staples. 3,692,224, 9-19-72, Cl. 227-19.000.
- Astin, Allen V.: *See*—
Rabinow, Jacob; Rotkin, Israel; and Astin, Allen V., 3,677,184.
- Astleford, John J.: *See*—
McKeithan, Wesley L.; and Astleford, John J., 3,659,244.
- Astleford, John J., Jr.; and Galloway, Dudley L., to Westinghouse Electric Corporation. Distribution transformer. 3,634,798, 1-11-72, Cl. 336-92.
- Astley, Edward Thomas, to Crosfield Electronics Limited. Remanent image erasure for rapid successive exposures. 3,634,619, 1-11-72, Cl. 178-7.2.
- Astley, Peter James: *See*—
Wilton, Raymond Charles; and Astley, Peter James, 3,643,345.
- Aston, Bruno D. Applicator assembly for fluent materials. 3,692,417, 9-19-72, Cl. 401-122.000.
- Aston, Jack Ralph: *See*—
Brassington, Harry; and Aston, Jack Ralph, 3,670,361.
- Aston, Keith, to Pavelle Corporation, The. Method and apparatus for photographic color printing. 3,640,618, 2-8-72, Cl. 355-35.
- Astor-Werk Otto Berning & Co., Firma: *See*—
Berning, Rudolf, 3,654,671.
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Delin, Per Staffan; Kiessling, Karl Hans Fritz; Thelin, Karl Hugo; and Lars, Solve, 3,684,658.
- Rydh, Thore Oskar Verner, 3,681,400.
- Astra Nutrition Aktiebolag: *See*—
Osterman, Sven Olof, 3,646,688.
- Astra-Meditec AB: *See*—
Tillander, Hans, 3,674,014.
- Astro Music Company, Inc.: *See*—
Morin, Van, 3,706,254.
- Astro-Arc Company: *See*—
Kazluaskas, Gasparas; and Gedgaudas, Mindaugas E., 3,702,913.
- Vilkas, Eugene P.; and Kazluaskas, Gasparas, 3,702,915.
- Astro-Science Corporation: *See*—
Norton, Clyde J., 3,659,211.
- Astrocon Corporation: *See*—
Kuller, Lawrence; and Jerson, Sidney N., 3,683,277.
- Astrodata, Inc.: *See*—
Gunning, William F.; Wilson, John F.; and Bertram, Charles C., 3,654,603.
- Astrom, Klas Johan: *See*—
Schoeps, Knut Christian; and Astrom, Klas Johan, 3,675,726.
- Astrom, Per Sture, to Frigoscandia Contracting AB. Feed devices. 3,635,045, 1-18-72, Cl. 62-266.
- Astrowski, Raymond M. Railway car hydraulically dampened roll stabilizer. 3,643,602, 2-22-72, Cl. 105-199.
- Astrup, William V.: *See*—
Young, Fred M.; Astrup, William V.; and Jones, Ronald E., 3,650,233.
- Asui, Hiroshi; and Takahashi, Mitsuo, to Nippon Mining Co., Ltd. Process for obtaining nickel concentrates from nickel oxide ores. 3,701,647, 10-31-72, Cl. 75-3.000.
- Asuma, Masaro: *See*—
Seko, Maomi; Ogawa, Shinsaku; Komori, Ryojo; Asuma, Masaro; Isoya, Toshiro; and Sakai, Takamasa, 3,674,653.
- Aszalos, Adorjan; Robison, Robert S.; Pansy, Felix; and Berk, Bernard, to Squibb, E. R., & Sons, Inc. Trienine and a process for making the same. 3,632,749, 1-4-72, Cl. 424-118.
- Aszalos, Adorjan; Robison, Robert S.; Kraemer, Nancy; Henshaw, Jo Ann; and Giannini, Mary Suzanne, to Squibb, E. R., & Sons, Inc. Tumimycin and process for making same. 3,674,867, 7-4-72, Cl. 424-122.000.
- Aszkenas, Marvin. Snap-on cleaning unit for vehicular windshield wipers. 3,631,561, 1-4-72, Cl. 15-250.41.
- Ataka, Hisanori; and Mikami, Nobunao, to Kabushiki Kaisha Ricoh. Parallax correction device for use in a multiphotographic device. 3,641,900, 2-15-72, Cl. 95-36.
- Ataka, Hisanori, to Kabushiki Kaisha Ricoh. Light sensitized plate holding box for compound photographic camera. 3,641,904, 2-15-72, Cl. 95-66.
- Ataka, Hisanori, to Kabushiki Kaisha Ricoh. Micro-photograph projection system. 3,642,360, 2-15-72, Cl. 353-38.
- Ataka, Hisanori, to Kabushiki Kaisha. Viewfinder optical system. 3,656,421, 4-18-72, Cl. 95-42.
- Ataka, Hisanori, to Ricoh Co., Ltd. Real image viewfinder employing roof-type reflecting mirror assemblies. 3,690,214, 9-12-72, Cl. 88-1.50r.
- Ataka, Takeshi; Tenkumo, Shohei; Sekita, Minoru; and Nakaniwa, Yuji, to Minolta Camera Kabushiki Kaisha. Exchange lens with the lens-shutter. 3,635,142, 1-18-72, Cl. 95-53.
- Atakran, Namik, to Appleton Electric Company. Linear push plunger electrical switch with tubular shroud arc prevention means. 3,699,276, 10-17-72, Cl. 200-16.00a.
- Atam Alibekoff, Galib-Bey: *See*—
Poltzer, Alfred; Atam Alibekoff, Galib-Bey; and Wang, Pao-Chi, 3,657,035.
- Atamian, Zaven. Sunglasses with reversible shade portions. 3,689,136, 9-5-72, Cl. 351-44.000.
- Atanassov, Gueorgui Stoylov: *See*—
Vitkov, Eil Slavchev; Petkov, Milko Ivanov; and Atanassov, Gueorgui Stoylov, 3,704,759.
- Atara Corporation: *See*—
Murphy, Declan S.; and Charest, Rolland C. H., 3,672,647.
- Atchison, Donald: *See*—
Gilbert, Lloyd A., 3,658,103.
- Atchley, Otto. Therapeutic device. 3,636,948, 1-25-72, Cl. 128-79.
- Atchley, Raymond D.; Pegram, John B.; and Dixon, Kenneth K., to Dixon, K., Corporation. Coating apparatus. 3,683,849, 8-15-72, Cl. 118-50.000.
- ATCO Surgical Supports Co.: *See*—
Johnson, Leona M., 3,670,738.
- Atek Industries, Inc.: *See*—
Mandroian, Harold, 3,702,814.
- Ateliers de Constructions Electriques Charleroi (ACEC): *See*—
Jauquet, Christian, 3,676,669.
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Deryck, Petrus R., 3,671,989.
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De Rubinat, Jean-Marie, 3,701,053.
- Dessy, Lucien, 3,644,670.
- Gouttierre, Jean, 3,698,270.
- Leglise, Alexandre, 3,639,823.
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Rouet, Paul, 3,706,848.
- Ateliers de Constructions Mecaniques de Vevey S.A.: *See*—
Raeber, Victor, 3,651,331.
- Ateliers des Charmilles S.A.: *See*—
Goiffon, Thierry; Lehmann, Hans Rudolf; and Schaidl, Hubert, 3,695,144.
- Ateliers Diderichs: *See*—
Deborde, Albert, 3,670,779.
- Ateliers Heuze, Malevez & Simon Reunis, Societe Anonyme: *See*—
Dryon, Jacques Max Charles, 3,704,642.
- Ateliers J. Hanrez Societe Anonyme: *See*—
Bougard, Jacques, 3,648,682.
- Ateliers Mecaniques du Douaisis: *See*—
Joug, Roland; and Ragout, Bernard, 3,688,894.
- Ates Componenti Elettronici S.p.A.: *See*—
Cavallari, Eugenio, 3,641,267.
- Del Zotto, Giorgio, 3,636,357.
- Paletto, Raimondo; and Cossuta, Giuseppe, 3,689,683.
- Athanas, Terry George, to RCA Corporation. Input transient protection for complementary insulated gate field effect transistor integrated circuit device. 3,673,428, 6-27-72, Cl. 307-202.000.
- Athanas, Terry George, to RCA Corporation. Formation of openings in insulating layers in MOS semiconductor devices. 3,674,551, 7-4-72, Cl. 117-212.000.
- Athanasoulas, Evangelos G. Saw blades and machines for servicing them. 3,661,037, 5-9-72, Cl. 76-58.
- Athans, Jerry, Jr. Remotely controlled wall switch operating means. 3,697,905, 10-10-72, Cl. 335-1.000.
- Athena Controls, Inc.: *See*—
Evalds, Egils, 3,684,172.
- Athena Systems, Inc.: *See*—
Wiltz, Robert E.; Schreiner, Edmund D.; and Winsor, Malcolm C., 3,656,172.
- Ather, Roy L.: *See*—
Moore, Joseph B.; and Ather, Roy L., 3,698,219.
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- Atherton, David L., to Ferranti-Packard Limited. Cryogenic magnet force application means and method. 3,691,960, 9-19-72, Cl. 104-148.0ss.
- Atherton, John, to Staveley Machine Tools Limited. Boring machines. 3,645,639, 2-29-72, Cl. 408-146.
- Atherton, John Heathcote; and Plumb, John Beckett, to Imperial Chemical Industries Limited. Nitrogen-containing compounds. 3,700,713, 10-24-72, Cl. 260-448.20n.
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Moore, Joseph B.; and Athey, Roy L., 3,669,180.
- Athey, Skipwith W., to International Video Corporation. Color divider for color video cameras. 3,653,748, 4-4-72, Cl. 350-171.
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Fox, Gerald B.; Dudley, Wray E.; and Athey, Stuart E., 3,706,317.
- Athey, Stuart E., to Hobart Manufacturing Company, The. Hydraulic control system for a washing machine. 3,646,948, 3-7-72, Cl. 134-57.
- Athey, Stuart E.; and Geiger, Paul B., to Hobart Manufacturing Company, The. Dishwashing machine with automatic indicating signals. 3,707,156, 12-26-72, Cl. 134-57.0dl.
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Erb, Gilbert E., 3,671,126.
- Zoot, Robert M.; and Scieszinski, James Leo, 3,679,307.
- Zoot, Robert M., 3,684,381.

- Atit, Kishore M.: *See*—
De Wittie, H. W.; Kirchstein, John A.; and Atit, Kishore M., 3,647,396.
- Atkin, Rupert L.: *See*—
Drutchas, Gilbert H.; Atkin, Rupert L.; and Shaw, Garrett D., 3,707,312.
- Atkin, Sydney: *See*—
Falck-Muus, Rolf; Newman, Daniel J.; and Atkin, Sydney, 3,649,173.
- Atkin, Wesley H., to Wenzel Company, The. Automatic stuffer for sleeping bags. 3,664,090, 5-23-72, Cl. 53-258.
- Atkins & Merrill, Inc.: *See*—
Koch, John H., 3,675,880.
- Atkins, Anthony G.; Estes, Bay E., III; and Renner, Richard L., to United States Steel Corporation. Apparatus for determining flatness deviation in sheet or strip. 3,688,571, 9-5-72, Cl. 73-144.000.
- Atkins, Bobby L.: *See*—
Brown, John H., Jr.; and Atkins, Bobby L., 3,638,709.
- Atkins, Bobby Leroy: *See*—
Harper, Billy Gene; Bashaw, Robert Niles; and Atkins, Bobby Leroy, 3,669,103.
- Atkins, Bobby Leroy, to Dow Chemical Company, The. Copolymers of alkyl styrenes and N-vinyl heterocyclic monomers and inverse suspension polymerization using the same. 3,651,035, 3-21-72, Cl. 260-88.1.
- Atkins, Carl E., to Wagner Electric Corporation. Control circuit with anti-switching and anti-noise circuitry. 3,670,178, 6-13-72, Cl. 307-202.000.
- Atkins, Cedric Donald: *See*—
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- Atkins, Cedric Donald; and Attaway, John Ahlen, to State of Florida, Department of Citrus. Full-flavored citrus juice energy supplement. 3,657,424, 4-18-72, Cl. 424-153.
- Atkins, James M. Brush and holding device therefor. 3,631,560, 1-4-72, Cl. 15-146.
- Atkinson, A. W. Whirling hoop toy. 3,660,929, 5-9-72, Cl. 46-47.
- Atkinson, Archibald H. Structural chord members for joist construction. 3,686,819, 8-29-72, Cl. 52-693.000.
- Atkinson, Cyril Millward, to Northrop Weaving Machinery Limited. Loom sleys. 3,677,306, 7-18-72, Cl. 139-188.000.
- Atkinson, Denzil Malcolm. Electric switches. 3,694,601, 9-26-72, Cl. 200-144.00b.
- Atkinson, James L., to North American Rockwell Corporation. Electrostatic support system. 3,642,334, 2-15-72, Cl. 308-10.
- Atkinson, Joseph G.; and Simons, Erskine, Jr., to Merck & Co., Inc. Deuterated methylene chloride. 3,666,821, 5-30-72, Cl. 260-664.
- Atkinson, Louis D.: *See*—
Bjornsen, Bjorn G.; and Atkinson, Louis D., 3,696,828.
- Laakanien, Richard N.; Kuczkowski, Frank A.; Atkinson, Louis D.; Kuhar, Paul W.; Lechner, Thomas J., Jr.; and Weber, Urban A., 3,705,595.
- Atkinson, Robert J., to Burroughs Corporation. Electronic circuits instructional apparatus. 3,656,242, 4-18-72, Cl. 35-19.
- Atkinson, Roger F.; Parr, Richard H., Jr.; and Weil, Edward A., to Clendenin Investors Limited Partnership. Computer-alarm interface system. 3,697,984, 10-10-72, Cl. 340-408.000.
- Atkinson, Wallace E., to Long Manufacturing Co., Inc. Combination lock construction. 3,633,388, 1-11-72, Cl. 70-80.
- Atkinson, Wallace E., to Long Manufacturing Co., Inc. Combination lock construction. 3,677,042, 7-18-72, Cl. 70-70.000.
- Atkinson, Wallace E., to Long Manufacturing Co., Inc. Drawbolt latching device. 3,698,753, 10-17-72, Cl. 292-247.000.
- Atkinson, Ward J.; and Cole, Edward N., to General Motors Corporation. Flow thru body ventilation. 3,646,876, 3-7-72, Cl. 98-2.11.
- Atkinson, William A., Jr.: *See*—
Mills, Ivor W.; Dimeler, Glenn R.; Atkinson, William A., Jr.; and Hoffman, James P., 3,654,127.
- Atkinson, William T., to Daniels, Archer, Midland Company. Preservation of proteinaceous materials and edible fibers spun therefrom. 3,645,746, 2-29-72, Cl. 99-17.
- Atkiss, Thomas Clifford, to Pennwalt Corporation. Process for increasing corrosion resistance of conversion coated metal. 3,664,887, 5-23-72, Cl. 148-6.16.
- ATL Machine Corporation: *See*—
Hull, Gerry G.; and Morris, Eugene B., Jr., 3,707,244.
- Atlantic Coast Precast, Inc.: *See*—
Saultz, Robert H.; and Crane Julius A., 3,659,778.
- Atlantic Design & Development Corporation: *See*—
Gallant, Reginald R.; Swain, Roger S.; and Waterman, Neil S., 3,701,945.
- Waterman, Neil S., 3,659,758.
- Atlantic Games Limited: *See*—
Boileau, Louis, 3,658,339.
- Atlantic Merchandising Company: *See*—
Fisher, William M., 3,705,674.
- Atlantic Richfield Company: *See*—
Allen, William G.; Le Velle, James A.; and Schuh, Frank J., 3,680,631.
- Apikos, Dominic, 3,660,334.
- Arnold, Thomas B.; Byrnes, Eugene B.; and Castoe, Alonzo R., 3,702,296.
- Baker, Thomas N., III; and Bonetti, Giovanni A., 3,652,523.
- Becker, Matthews L.; and Chapman, Robert F., 3,657,148.
- Bonetti, Giovanni A.; Baker, Thomas N., III; and Capaldi, Eugene C., 3,642,919.
- Borchert, Alfred E.; and Capaldi, Eugene C., 3,676,375.
- Broome, Marshall B.; and Burress, William W., 3,679,971.
- Burk, Emmett H., Jr.; and Carlos, Donald D., 3,649,636.
- Burk, Emmett H., Jr.; and Carlos, Donald D., 3,658,805.
- Cahill, Joseph A.; and Meyers, Joseph A., III, 3,666,401.
- Caserio, Frederick F., Jr., 3,636,087.
- Chambers, Robert R.; and Stokan, Rudolph S., 3,650,303.
- Chambers, Robert R.; Isaacson, Henry V.; and Young, David W., 3,650,978.
- Chao, Tai S.; and Kjonas, Manley, 3,632,630.
- Chao, Tai S.; and Roush, Allan N., 3,655,562.
- Chapman, Robert F., 3,680,217.
- Chloupek, Frank J., 3,668,269.
- Cimbalo, Robert N.; and Broyles, Allen R., 3,684,740.
- Clough, Thomas J., 3,650,953.
- Crocker, Richard E., 3,639,494.
- Dunlap, Henry F., 3,659,649.
- Dunlap, Henry F.; and Campbell, William M., 3,693,451.
- Fauber, Eugene M.; and Moyer, Hallard C., 3,655,563.
- Fauber, Eugene M., 3,664,871.
- Faulk, Joseph H.; Hanke, Jurgen J.; and Striegler, John H., 3,635,294.
- Faulk, Joseph H.; Kern, Loyd R.; and King, Graham E., 3,675,728.
- Fetterman, David S., 3,649,648.
- Fritok, William H.; Wolgemuth, Larry G.; and Strand, Robert C., 3,702,320.
- Gower, Howard D.; Gower, Bob G.; and Young, David W., 3,645,897.
- Grane, Henry R.; and Katz, Isadore Edward, 3,665,048.
- Griesinger, William K.; Sorgenti, Harold A.; and Schell, George W., 3,674,885.
- Grosboll, Martin P., 3,637,486.
- Haimula, Norman E., 3,675,430.
- Hammersma, Joseph Warren, 3,642,917.
- Hersh, Harold R.; and Sauer, Richard W., 3,703,490.
- Hoffman, Robert N.; and Kern, Loyd R., 3,698,491.
- Hoffman, William D.; and Larson, Allen E., 3,655,414.
- Howell, Eddie P.; Youngman, Carl A.; Hardison, Jack E.; and Tribble, Robert E., 3,668,927.
- Jacobs, Harry E., 3,646,238.
- Jacobs, Harry E.; and Worrell, George R., 3,663,420.
- Johnson, Marvin F. L.; and Graff, Stuart L., 3,637,524.
- Johnson, Walter H., Jr.; and Pritchett, William C., 3,654,464.
- Keeler, William A.; and Schuh, Frank J., 3,662,832.
- Kivijak, Joseph M., Jr.; and Rausch, Maurice K., 3,642,610.
- Kremer, Charles J., 3,660,333.
- Lease, Charles A.; Patinkin, Seymour H.; and Chlouper, Frank J., 3,701,640.
- Lincoln, Robert M.; and Meyers, Joseph A., III, 3,645,840.
- Lincoln, Robert M.; and Meyers, Joseph A., III, 3,707,437.
- Lincoln, Robert M.; and Meyers, Joseph A., III, 3,707,438.
- Lindwall, Richard C.; and Crocker, Richard E., 3,654,107.
- Loncaric, Rado G., 3,698,746.
- Marion, Donald L.; Anderson, Dennis G.; and Strand, Robert C., 3,639,325.
- Masologites, George P., 3,661,774.
- Matson, Howard J.; and Fritz, Ira T., 3,637,502.
- Matson, Howard J., 3,645,901.
- Mayland, Harrison C., 3,654,141.
- McCauley, John J., 3,660,269.
- Meyers, Joseph A., III; and Cahill, Joseph A., 3,666,402.
- Michaels, Glenn O., 3,647,909.
- Miles, Leon H., 3,700,050.
- Miles, Leon H.; and King, Graham E., 3,704,750.
- Miller, Virgil A., 3,640,860.
- Mitchell, Maurice M., Jr.; Fisher, Harold M.; and Tomezsko, Edward S., 3,655,792.
- Mitchell, Maurice M., Jr.; Fisher, Harold M.; and Tomezsko, Edward S., 3,655,800.
- Ohlschager, Stanley, 3,665,033.
- Penzes, Stephen, 3,656,938.
- Pratt, Richard J.; and Young, David W., 3,650,970.
- Prince, Frank R., 3,637,743.
- Rieve, Robert W.; and Shalit, Harold, 3,635,814.
- Rieve, Robert W., 3,660,054.
- Rieve, Robert W.; and Shalit, Harold, 3,660,267.
- Riggs, Emmet D., 3,691,517.
- Rosenthal, Rudolph; and Kieras, Joseph A., 3,636,051.
- Rosenthal, Rudolph; Sheng, Ming Nan; and Zajacek, John G., 3,639,486.
- Rosenthal, Rudolph; Bonetti, Giovanni A.; and Shalit, Harold, 3,663,642.
- Schenach, Thomas A.; and Caserio, Frederick F., Jr., 3,634,501.
- Schenach, Thomas A.; and Trimble, David L., 3,642,907.

- Schuh, Frank J., 3,654,766.
 Sheldahl, David B., 3,660,128.
 Sheng, Ming Nan; and Zajacek, John G., 3,670,002.
 Sherman, Paul David; and Chloupek, Frank J., 3,655,704.
 Smith, Frank W.; and Parker, Patrick N., 3,654,993.
 Smith, Robert A.; and Wang, Ting-I, 3,705,924.
 Sorgenti, Harold A., 3,666,777.
 Statton, Gary L.; and Sauer, Richard W., 3,674,715.
 Steffen, Frederick W., 3,634,538.
 Stram, Michael A.; and Zuraw, Charles L., 3,645,903.
 Stram, Michael A., 3,657,123.
 Striegler, John H., 3,670,832.
 Thienot, Marc O.; and Verdol, Joseph A., 3,687,914.
 Tomezko, Edward S. J., 3,697,614.
 Trevillyan, Alvin E.; and Vecbastiks, Ivars, 3,670,003.
 Trevillyan, Alvin E., 3,673,154.
 Uhl, George A., 3,637,335.
 Uhl, George A.; and Baillie, Lloyd A., 3,668,115.
 Vallino, Barney; and Merchant, Thomas G., 3,653,265.
 Vallino, Barney, 3,663,429.
 Verdol, Joseph A.; and Ryan, Patrick W., 3,637,558.
 Verdol, Joseph A.; and Ryan, Patrick W., 3,674,743.
 Voelz, Frederick L., 3,640,255.
 Wagner, John W., 3,634,527.
 Wakefield, Charles E., Jr., 3,662,822.
 Wang, Ting-I; and Nakaguchi, Glenn M., 3,699,131.
 Wang, Ting-I, 3,706,763.
 Whiting, Jerry M., 3,665,719.
 Wohgemuth, Larry G.; and Fritock, William H., 3,647,760.
 Wohgemuth, Larry G.; and Fritock, William H., 3,645,977.
 Yee, Tucker T., 3,646,104.
 Yee, Tucker T., 3,651,137.
 Yee, Tucker T.; Cahill, Joseph A.; and Meyers, Joseph A., III, 3,651,138.
 Yoo, Jin Sun; and Koncos, Robert, 3,641,188.
 Yoo, Jin Sun, 3,655,811.
 Yoo, Jin Sun, 3,671,565.
 Yoo, Jin Sun, 3,679,772.
 Yoo, Jin Sun; and Milam, Ronald L., 3,697,617.
 Young, David W.; Strand, Robert C.; and Marion, Donald L., 3,632,839.
 Young, David W.; and Dieter, Jerry A., 3,697,250.
 Atlantic Richfield Company, mesne: See—
 Burk, Emmett H., Jr.; Kutta, Helmut W.; and Wohgemuth, Larry G., 3,652,507.
 Hartline, Ralph E., 3,701,005.
 Hearn, Daniel P., 3,646,430.
 Keith, Willis C.; and Johnson, Carl E., 3,646,124.
 Ryan, Patrick W.; and Thompson, Ronald E., 3,652,520.
 Atlantic Scientific Corporation: See—
 Gear, John, 3,696,386.
 Atlantis Machine Tool Developments Limited: See—
 Neary, Richard William, 3,650,412.
 Atlas Automation, Inc.: See—
 Austin, Albert A., Jr., 3,668,498.
 Atlas Chemical Industries, Inc.: See—
 Brizzolara, Henry M., 3,660,794.
 Burns, Joseph P.; Feltzin, Joseph; and Kuehn, Erich, 3,639,294.
 Burns, Joseph P.; Feltzin, Joseph; and Sanderson, Frank T., 3,639,295.
 Burns, Joseph P.; and Feltzin, Joseph, 3,681,106.
 Capik, Robert J.; and Wright, Leon W., 3,670,035.
 Cear, Stanley, 3,640,920.
 Conrad, Keith L., 3,642,547.
 De Berardinis, Albert J., 3,705,199.
 Du Ross, James W.; and Lensack, Gabriel P., 3,647,477.
 Edwards, Donald W., 3,653,996.
 Edwards, Donald W., 3,695,947.
 Graff, Kenneth W., 3,658,717.
 Hartmann, Ludwig A., 3,686,249.
 Kuehn, Erich, 3,639,535.
 Kuehn, Erich, 3,644,599.
 Kuehn, Erich, 3,700,739.
 Lawrence, Joseph W., 3,631,802.
 Lee, John T. M.; and Keathley, Donald P., 3,661,004.
 Lew, Baak W., 3,663,569.
 Lew, Baak W., 3,707,535.
 Masco, Howard L., 3,641,242.
 Moyant, Donald A., 3,670,925.
 Mutchler, John Powell, 3,639,240.
 Restaino, Alfred; and Reed, Weldon N., 3,635,857.
 Restaino, Alfred J., 3,640,897.
 Robins, Jack; and Harris, Harold B., 3,684,597.
 Rutledge, Thomas F., 3,671,604.
 Rutledge, Thomas F., 3,696,044.
 Sherman, Albert H.; and Zech, John D., 3,671,458.
 Slawinski, Frank E., 3,671,342.
 Stockburger, George J., 3,641,219.
 Stonestrom, Donald M., 3,662,452.
 Unver, Altan A., 3,632,656.
 Wright, Leon W., 3,691,100.
 Atlas Copco Aktiebolag: See—
 Ahlberg, Erik Johan; Ekwall, Gosta Bernhard; and Lingquist, Rolf Artur Ronald, 3,684,033.
 Ahlberg, Erik Johan Victor; Ekwall, Gosta Bernhard; and Lindqvist, Rolf Artur Ronald, 3,659,657.
 Berle, Axel Gunnar; Nilsson, Lars Gunnar; and Olofsson, Hans Kristoffer, 3,689,197.
 Birrer, Josef, 3,695,717.
 Egnelov, Gunnar Kristoffer; and Eriksson, Sune Vilhelm, 3,701,389.
 Eriksson, Ake Sigvard, 3,648,789.
 Fernstrom, Gustaf Harry, 3,698,599.
 Jonsson, Nils Gunnar, 3,696,872.
 Lauber, Ernst Abraham; and Herron, Lorne Robert, 3,647,263.
 Lauber, Ernst Abraham, 3,647,264.
 Liedberg, Kurt Herman, 3,650,479.
 Liedberg, Kurt Herman, 3,674,209.
 Liedberg, Kurt Herman, 3,688,990.
 Liedberg, Kurt Herman; Jonsson, Nils Erik Reinhold; and Svensson, Sten Gunnar Hugo, 3,692,214.
 Luderer, Manfred H.; and Ettenhofer, Anton, 3,637,135.
 Luderer, Manfred H.; and Ettenhofer, Anton, 3,691,991.
 Mader, Horst Heinrich Georg, 3,698,266.
 Noren, Carl Anders, 3,656,495.
 Schoeps, Knut Christian, 3,648,784.
 Schoeps, Knut Christian, 3,672,185.
 Schoeps, Knut Christian; and Astrom, Klas Johan, 3,675,726.
 Schoeps, Knut Christian, 3,703,933.
 Stenbacka, Johan Runar, 3,696,871.
 Atlas, David. Method and apparatus for radar turbulence detection. 3,646,555, 2-29-72, Cl. 343-5.
 Atlas Engineering Products, Inc.: See—
 Losee, Walter J., 3,703,304.
 Atlas, Gerald D. Anchorage for a boat dock, buoy or the like. 3,695,207, 10-3-72, Cl. 114-206.00r.
 Atlas Hoist & Body Incorporated: See—
 Gladysz, Wiktor, 3,671,016.
 Richler, Max M., 3,648,868.
 Atlas Pacific Engineering Company: See—
 Loveland, Malcolm W., 3,638,696.
 Loveland, Malcolm W., 3,702,144.
 Loveland, Malcolm W.; and Singleton, Robert J., 3,704,041.
 Atlee, Zed J.; and Pleil, Viktor W., to Picker Corporation. Double focus X-ray tube. 3,649,861, 3-14-72, Cl. 313-57.
 ATM Corporation, mesne: See—
 Schurrer, Robert L., 3,700,104.
 Atom Manufacturing Company: See—
 Pond, Robert B., 3,646,700.
 Atomic Swank Frank Corporation: See—
 Sierk, Raymond H.; and Sierk, Raymond W., 3,698,601.
 Atomic Energy of Canada Limited: See—
 Bird, Henry M. B.; Dixon, Geoffrey C.; and Knowles, J. Warwick, 3,658,425.
 Cross, William Gunn; and Tommasino, Luigi, 3,663,815.
 Green, William R., 3,673,409.
 McGregor, John Cameron, 3,674,638.
 McKinnon, Murdoch G.; Wilson, James N.; and Besant, Robert W., 3,690,339.
 Round, Kenneth J., 3,678,303.
 Thurston, Warren M., 3,681,598.
 Atomic Energy of Canada Limited Commercial Products: See—
 Rao, Venkataramanayya K., 3,667,215.
 Atomic Power Constructions Limited: See—
 Bennett, John Charles, 3,682,771.
 Atomic Power Development Associates, Inc.: See—
 Adie, Bryce C., 3,680,904.
 Allen, Robert C., Sr., 3,670,810.
 Friedland, Aaron J., 3,661,708.
 Atomjubil S.r.l.: See—
 Massarotti, Luigi, 3,674,245.
 ATOS Apparecchiature Oleodinamiche S.r.l.: See—
 Titelli, Paolo; and Saporiti, Elio, 3,701,366.
 Atreo Manufacturing Co., Inc.: See—
 Pitti, Joseph J.; and Tassone, George A., 3,667,070.
 Atrios Engineering Company: See—
 Gudmestad, Ragnar, 3,701,301.
 Atsugi Motor Parts Company, Limited: See—
 Akaiki, Seiji; and Morinaga, Akira, 3,676,024.
 Atsumi, Katsuya, to Akai Electric Company Limited. Tape running indicator. 3,643,895, 2-22-72, Cl. 242-201.
 Atsumi, Toshio: See—
 Yamamoto, Hisao; Atsumi, Toshio; and Awata, Hiroshi, 3,682,914.
 Attaway, John Ahlen: See—
 Atkins, Cedric Donald; and Attaway, John Ahlen, 3,657,424.
 Attaway, Thomas J. Vehicle grounding clamp. 3,641,473, 2-8-72, Cl. 339-14.
 Attenburrow, John, to Glaxo Laboratories Limited. Purification of 7 α -aminoarylacemido Δ^3 -4-carboxy-cephalosporins. 3,634,417, 1-11-72, Cl. 260-243.
 Attenhofer, A., AG: See—

- Dobler, Hans, 3,638,958.
 Atteridge, David G.: See—
 Sinizer, David I.; Fanelli, Louis H.; Toy, Albert; and Atteridge, David G., 3,638,298.
 Sinizer, David I.; Toy, Albert; Atteridge, David G.; and Fanelli, Louis H., 3,669,364.
 Attermeyer, Lawrence A.: See—
 Perry, Charles B.; and Attermeyer, Lawrence A., 3,650,018.
 Attfield, Robin A.: See—
 Dyla, John F.; and Attfield, Robin A., 3,660,968.
 Dyla, John F.; Moore, William M.; and Attfield, Robin A., 3,688,475.
 Attia, Edward A.; and Dethlefsen, Rolf, to Allis-Chalmers Manufacturing Company. Vacuum circuit interrupter. 3,674,958, 7-4-72, Cl. 200-144.00b.
 Attia, Edward A., to Allis-Chalmers Manufacturing Company. Vacuum interrupter contacts and method for making the same. 3,700,842, 10-24-72, Cl. 200-166.00c.
 Attkisson, James R. Panel systems. 3,636,669, 1-25-72, Cl. 52-38.
 Attri, Narinder S. Wheel speed information signal processing system. 3,669,508, 6-13-72, Cl. 303-21.00r.
 Attridge, Curtis C.; and Ross, Donald S. Automatic film processing device. 3,680,463, 8-1-72, Cl. 95-89.000.
 Attridge, John T., to Westinghouse Electric Corporation. Recess mounted electric air heater. 3,670,142, 6-13-72, Cl. 219-367.000.
 Attwood, John G.: See—
 Griggs, Richard V.; and Attwood, John G., 3,635,780.
 Kosrow, Robert L.; and Attwood, John G., 3,687,097.
 Atwater, Wayne G., to Triax Company, The. Automatic storage and semi-automated order picking system. 3,661,280, 5-9-72, Cl. 214-16.4.
 Atwater, Wayne G., to Triax Company, The. Storage frame components and assembly thereof into a storage rack for use in automatic warehousing system. 3,664,513, 5-23-72, Cl. 211-134.
 Atwater, Wayne G., to Triax Company, The. Knockdown storage frame and components. 3,685,665, 8-22-72, Cl. 211-177.
 Atwell, William H.; Salinger, Rudolf M.; and Seibert, Richard P., to Dow Corning Corporation. Preparation of hyrosilanes. 3,639,105, 2-1-72, Cl. 23-366.
 Atwell, William J.; and Cranston, Lawrence, to Uniroyal, Inc. Textile-reinforced all-polymeric hose and method of making same. 3,654,967, 4-11-72, Cl. 138-144.
 Atwell, William J.; and Cranston, Lawrence, to Uniroyal, Inc. Textile-reinforced all-polymeric hose. 3,682,201, 8-8-72, Cl. 138-125.000.
 Atwood, Allen W.: See—
 Taylor, Norman J.; Mann, Joseph K.; and Atwood, Allen W., 3,686,501.
 Atwood, George R.: See—
 Dowling, Donald J.; and Atwood, George R., 3,644,823.
 Dowling, Donald J.; and Atwood, George R., 3,657,636.
 Atwood, James A., III: See—
 Argeris, John G.; and Atwood, James A., III, 3,633,975.
 Atwood, John G.; and Kerr, Edwin L., to Perkin-Elmer Corporation, The. Laser excited spectrophone. 3,659,452, 5-2-72, Cl. 73-23.000.
 Atwood, Lamar T.; and Gidge, Lester, to Union Carbide Corporation. Apparatus for changing mesh size of non-woven netting. 3,675,285, 7-11-72, Cl. 28-1.0cl.
 Atwood Vacuum Machine Company: See—
 Marx, Thomas O., 3,697,105.
 Ploughman, Leonard K., 3,695,662.
 Slatery, Robert E., 3,680,902.
 Au, Kenneth K., to Microsystems International Limited. Field effect device and circuit having high current driving capabilities utilizing such device. 3,694,673, 9-26-72, Cl. 307-304.000.
 Auberge Corporation: See—
 De Van, William T.; and Van Dyck, Ken, 3,696,969.
 Auberry, Horace R.; and Liebscher, Anton, to Ro-Search, Incorporated. Footwear with method and device for its manufacture. 3,659,301, 5-2-72, Cl. 12-133.000.
 Auberry, Horace R.; and Liebscher, Anton, to Ro-Search Incorporated. Method of making footwear. 3,701,273, 10-31-72, Cl. 12-145.000.
 Aubert, Georges. Carcase separation. 3,641,624, 2-15-72, Cl. 17-23.
 Aubert, Harry Julius; and Gemperle, Edward Carroll, to Procter & Gamble Company, The. Low foaming hard surface cleaners. 3,679,608, 7-25-72, Cl. 252-526.000.
 Aubert, Jean. Hydraulic counterweight for boat elevator. 3,656,305, 4-18-72, Cl. 61-8.
 Aubert, Jean-Pierre: See—
 Harbonn, Jacques; and Aubert, Jean-Pierre, 3,680,311.
 Aubert, Jean-Pierre, to Commercial Holding & Metals Corporation. Heating apparatus for bread and filler material. 3,635,146, 1-18-72, Cl. 99-339.
 Aubert, Michel; Moss, Siegfried; and Grossheim, Hans, to Fried. Krupp Gesellschaft mit beschränkter Haftung. Method and apparatus for compiling measured values of a variable parameter. 3,673,552, 6-27-72, Cl. 340-3.00r.
 Aubin, Adelard L., Jr. Wall mounted combination chalkboard, projector screen and information display apparatus. 3,659,355, 5-2-72, Cl. 35-62.000.
 Aubrecht, Donald A.: See—
 Watson, William E.; and Aubrecht, Donald A., 3,653,833.
 Aubry, Jean; and Lenclud, Francois, to Societe Chimique des Charbronnages. Method of manufacture of resinous products from epoxy compounds. 3,634,326, 1-11-72, Cl. 260-47.
 Aubry, Jean; and Yax, Emile, to Societe Chimique des Charbronnages tour Aurore. Process for cyclopentadiene dimerizing. 3,700,741, 10-24-72, Cl. 260-666.00a.
 Auburn Engineering Inc.: See—
 Mucka, John R.; and Dickinson, William H., 3,707,064.
 Aucouturier, Jeanne: See—
 Leboutet, Hubert; Jaouen, Jean; and Aucouturier, Jeanne, 3,660,658.
 Aucouturier, Jeanne; and Lacaze, Rene, to Thomson-CSF. Graded field magnets. 3,671,895, 6-20-72, Cl. 335-212.000.
 Audac Corporation: See—
 Kuehnle, Manfred R., 3,671,120.
 Kuehnle, Manfred R.; and Jochimsen, Dieter, 3,697,176.
 Audeh, Azmi S., to Ampex Corporation. High performance tape memory system. 3,645,472, 2-29-72, Cl. 242-182.
 Audeh, Azmi S.; Deodhar, Anil N.; and Glatfelder, Henry G., to Ampex Corporation. Reel servo system. 3,648,134, 3-7-72, Cl. 318-6.
 Audesirk, John Pringle; Morse, Charles Ernest; and Weed, Gordon Douglas, to Bell Telephone Laboratories, Incorporated. Multilink wideband intercommunication system. 3,705,269, 12-5-72, Cl. 179-18.00b.
 Audesse, Emery G.; Griffin, Robert M.; Tartakoff, Alexander; and Gutta, John J., to Sylvania Electric Products, Inc. Tungsten halogen lamp. 3,641,386, 2-8-72, Cl. 313-179.
 Audi NSU Auto Union Aktiengesellschaft: See—
 Lechler, Rolf; and Steinwart, Johannes, 3,691,999.
 Leitermann, Wulf; and Maurhoff, Gerhard, 3,653,784.
 Max, Ruf, 3,706,514.
 Wankel, Felix, 3,688,749.
 Audi NSU Auto-Union Aktiengesellschaft: See—
 Ruf, Max, 3,705,570.
 Audia, Samuel W., to Torrington Company, The. Pattern wheel with hinged jack. 3,683,645, 8-15-72, Cl. 66-50.00a.
 Audichron Company, The: See—
 Bryant, Ellis H., Jr.; and Smith, Leary W., 3,668,326.
 Audiffred, Sidney J.; Johnson, Lowell E.; and Pearce, Shairyl I., to Caterpillar Tractor Company. Torque converter modulating piston. 3,673,799, 7-4-72, Cl. 60-54.000.
 Audio Alert Corporation: See—
 Goodwater, Harry C., 3,656,158.
 Goodwater, Harry C., 3,703,721.
 Audio Arts Incorporated: See—
 Doschek, Antony Z., 3,651,283.
 Audio Devices, Inc.: See—
 Sy, Jose C., 3,685,646.
 Audio Magnetics Corporation: See—
 Abitboul, Georges D., 3,676,216.
 Audiomatic Techniques Inc.: See—
 Toensing, Eyvand E.; and Barbour, Robert E., 3,634,744.
 Toensing, Eyvand E., 3,706,424.
 Audiscan Incorporated: See—
 Skuja, Ivars M., 3,702,721.
 Audn Corporation: See—
 Brendle, Thomas A., 3,655,955.
 Audran, Roger G. L.; Dostes, Clude G.; and Marechal, Claude M. Photosensitive elements having high surface concentration of silver halide and stabilized against contamination fog. 3,687,677, 8-29-72, Cl. 96-109.000.
 Audretsch, Leo M., Jr.; and Elsner, Matthew, to International Business Machines Corporation. Communication by smooth high order composites of trigonometric product functions. 3,697,697, 10-10-72, Cl. 179-15.00c.
 Audrichon Company, The: See—
 Bryant, Ellis H., Jr., 3,684,834.
 Aue, Alexander Iskander; Bjorling, Gotthard E.; and Johansson, Sven Agden, to Gullspangs Elektrokemiska AB. Process for the recovery, from secondary material, of such metals as nickel, cobalt, iron and copper, said secondary material comprising in addition one or more metals having a high melting point. 3,649,487, 3-14-72, Cl. 204-112.
 Aue, John R., to Westinghouse Electric Corporation. Refrigeration apparatus cabinet construction. 3,633,783, 1-11-72, Cl. 220-9.
 Aue, John R., to Westinghouse Electric Corporation. Shelf construction for a refrigerator door. 3,647,075, 3-7-72, Cl. 211-153.
 Aue, John R.; and Thompson, Glen D., to Westinghouse Electric Corporation. Arrangement for supporting a closure member from a track. 3,653,158, 4-4-72, Cl. 49-417.
 Aue, Walter A.; and Hastings, Corazon R., to Research Corporation. Novel silicious silicone bonded materials. 3,666,530, 5-30-72, Cl. 117-54.
 Auer, Fred Vincent: See—

- Altonen, Wilhart Niilo, Jr.; and Auer, Fred Vincent, 3,638,071.
- Auer, John H., Jr.; and Huffman, Jerry P., to General Signal Corporation. Remote control apparatus. 3,641,575, 2-8-72, Cl. 343-225.
- Auer, John H., Jr.; and Huffman, Jerry P., to General Signal Corporation. Digital radar interface. 3,653,043, 3-28-72, Cl. 343-8.
- Auer, John H., Jr., to General Signal Corporation. Apparatus for controlling sonic energy distribution. 3,672,462, 6-27-72, Cl. 181-50r.
- Auer, John H., Jr.; and Huffman, Jerry P., to General Signal Corporation. Sonic presence detector system. 3,675,190, 7-4-72, Cl. 340-1.000.
- Auer, Louis J. Filler tube construction for gasoline tank. 3,640,425, 2-8-72, Cl. 220-86.
- Auer, Peter, to Uhlmann, Josef, Maschinenfabrik. Apparatus for thermofforming packages or heat-sealing thermoformed packages. 3,686,059, 8-22-72, Cl. 156-581.000.
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Becker, Werner; Farwer, Alward; Frank, Georg; Reis, Bernhard; Rohf, Josef; and Auer, Rupert, 3,674,978.
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Stork, Willi, 3,643,552.
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Bosshard, Rene; Gubler, Kurt; Aufderhaar, Ernest; and Brenneisen, Paul, 3,676,450.
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Ormand, Frederick T.; and Auger, Huey V., 3,676,563.
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Levy, Mortimer; and Augustini, Peter P., 3,653,885.
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Hahn, Erich, 3,658,313.
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Strangfeld, Reiner, 3,656,398.
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Oberwelland, Hugo; and Klahn, Uwe, 3,666,388.
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Preinfalk, Franz, 3,633,710.
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Dalard, Francis Jean; Augustinsky, Jan Witold; and Sohm, Jean-Claude, 3,679,488.
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Arnold, Bruce C.; Auman, John T., Jr.; Kinnison, Charles G.; and Lantz, James E., 3,692,157.
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Weber, Helmut; Weyer, Rudi; Aumuller, Walter; Muth, Karl; and Stach, Kurt, 3,655,756.
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Perilhau, Jean Robert; and Auphan, Michel Joseph, 3,670,715.
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Aurilio, Giuseppe; Aurilio, Giovanni; and Faust, Valentine T., Jr., 3,680,378.

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Carroll, Aubrey G., 3,659,722.
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Katz, Michel, 3,667,936.
- Aurnhammer, Robert: See—
Schlecht, Helmut; and Aurnhammer, Robert, 3,671,584.
- Aurnou, Ronald M.: See—
Zeidler, Herman Rudolf; and Aurnou, Ronald M., 3,688,410.
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Ervin, William D., 3,655,068.
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Meuleman, Johannes; and Aussant, Michel, 3,697,825.
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Collez, Louis, 3,651,664.
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Jansen, Karl, 3,654,986.
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Seiferth, Oscar E.; Grindrod, Paul E.; Gifford, Maurice J.; and Austin, Glenn M., 3,663,240.
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Smith, Edwin J.; and Austin, Lowell W., 3,649,510.
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Knepper, Wilhelm; and Austin, Severin, 3,695,838.
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Conover, Lloyd H.; McFarland, James W.; and Austin, William C., 3,644,624.
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Gillard, Paul O., 3,701,134.
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Reeve, Keith Desmond; and Ramm, Eric John, 3,704,202.
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Whitton, Richard Wilfred; Southall, Ronald Herbert; McKenzie, Michael William; and Shackelford, Ralph Edward, 3,653,979.
- Australian Paper Manufacturers Limited: See—
Morris, Andrew W.; and Norman, Reginald J., 3,676,247.
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Bean, Stephen, 3,681,707.
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- Auth, Franz: See—
Stahl, Gerhard; Spahn, Walter; Fischer, Willi; and Auth, Franz, 3,642,258.
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Falvert, Daniel; Giralt, Georges; Clot, Jean; and Authie, Gerard, 3,686,492.
- Autic Developments Limited: See—
Young, Robert William, 3,667,658.
- Autio, Timo: See—
Miettinen, Jorma; Autio, Timo; and Stromberg, Juhani, 3,663,261.
- Auto Laundry Equipment Sales Company: See—
Rickel, Allen D., 3,643,272.
- Auto Pak Company: See—
Clar, Milton, 3,687,063.
- Auto Research Corporation: See—
Reeve, Paul H., 3,671,148.
- Auto Safety, Inc.: See—
Boothe, Arliss L., 3,632,158.
- Auto-Chlor System: See—
Fakes, Roger E., 3,680,784.
- Auto-Swage Products, Inc.: See—
Hall, Bartley E., 3,665,600.
- Auto-Valve, Inc.: See—
Koller, Floyd G., 3,703,189.
- Autoboard Corporation: See—
Glaze, John W., Jr.; and Propst, James P., 3,686,726.
- Autobrdy, narodni podnik: See—
Krejcir, Oldrich, 3,682,464.
- Autoclave Engineers, Inc.: See—
Bucceri, Bernard J., 3,643,984.
- Smith, Charles W., Jr., 3,632,954.
- Autoelektronik AG: See—
Diener, Rudolf, 3,677,254.
- Diener, Rudolf, 3,678,299.
- Autoflug GmbH: See—
Peabe, Peter, 3,703,749.
- Autogiro Company of America: See—
Stanley, Paul H., 3,635,426.
- Automata Corporation: See—
Azure, Leo L., Jr., 3,643,348.
- Automated Building Components, Inc.: See—
Jureit, John Calvin; Csakvary, Oscar; and Castillo, Adolfo, 3,685,129.
- Jureit, John Calvin, 3,696,572.
- Automated Equipments Corporation: See—
Radobenko, William, 3,695,501.
- Automated Feed Mills Limited: See—
Sandor, Bela Thomas, 3,705,695.
- Automated Lawn Builders of the Midwest, Inc.: See—
Paige, Dennis D.; and Coleman, Lewis E., 3,685,468.
- Automated Manufacturing Systems, Inc.: See—

- Campbell, Robert L., Jr., 3,683,705.
 Automated Packaging Systems, Inc.: *See—*
 Lerner, Hershey, 3,641,733.
 Automatic Close & Lock Corporation: *See—*
 Ratner, George I., 3,674,360.
 Automatic Control Systems, Inc.: *See—*
 Weaver, Paul J., 3,683,726.
 Weaver, Paul J., 3,690,200.
 Weaver, Paul J., 3,697,040.
 Automatic Devices, Inc.: *See—*
 Grafius, Gerald R., 3,655,042.
 Automatic Drilling Machines Inc.: *See—*
 Bromell, Raymond J., 3,662,842.
 Greene, Palmer G., 3,651,871.
 Lackey, Marion D., 3,648,783.
 Automatic Electric Laboratories, Inc.: *See—*
 Gartner, Todd; and Van Husen, Hendrik W., 3,691,309.
 Kopec, Thomas J.; and Morstadt, Richard A., 3,665,107.
 Mills, Jeffrey P., 3,646,368.
 Rovnyak, Richard M., 3,678,423.
 Symes, Clifford Edward, 3,660,627.
 Vande Wege, John R., 3,646,275.
 Vlaeminck, Noel, 3,660,681.
 Winters, Hilary M.; and Creasy, James R., 3,679,970.
 Automatic Flag Poles, Inc.: *See—*
 Stangarone, Gene; Cassara, Frank A.; and Dupont, Eugene F., 3,675,615.
 Automatic Packaging Machinery Co.: *See—*
 Rosen, Ruth, 3,695,657.
 Automatic Radio Manufacturing Inc.: *See—*
 Turner, John A., 3,699,439.
 Automatic Sprinkler Corporation of America: *See—*
 Moeglich, Karl, 3,637,979.
 Automatic Switch Co.: *See—*
 Otto, Noel A., 3,667,502.
 Automatic Switch Company: *See—*
 Moakler, William A.; and Ringstad, Ralph H., 3,652,866.
 Wiktor, Dominik M., 3,648,003.
 Wiktor, Dominik M., 3,697,709.
 Automatic Toll Systems, Inc.: *See—*
 Lopata, Herman, 3,665,160.
 Automation Development Corporation: *See—*
 White, Frank F., 3,655,067.
 Automation Industries, Inc.: *See—*
 Couture, John W., 3,673,859.
 Hatch, Gordon H., 3,672,211.
 McElroy, Jerry T., 3,666,979.
 Munger, Donald W.; and Weighart, Frederick G., 3,688,562.
 Murdoch, Andrew M., 3,688,569.
 Robinson, John A., 3,690,156.
 Tobey, Ray; and Lankford, David L., 3,673,073.
 White, Allwyn M., 3,636,756.
 Autometrics Co., *mesne*: *See—*
 Cushman, Charles Richard, 3,639,831.
 Goble, Ralph W., 3,656,598.
 Automobiles M. Berliet: *See—*
 Caubet, Jacques Jean, 3,658,576.
 Sibaud, Jean Paul, 3,657,922.
 Automobiles Peugeot: *See—*
 Bailleux, Gilles, 3,704,029.
 Balandras, Pierre, 3,668,410.
 Barriere, Alain, 3,680,821.
 Bonnaud, Michel, 3,666,308.
 Bouthors, Pierre; and Quemeris, Philippe, 3,690,192.
 Colinet, Andre; Mercier, Jacques; and Pernoud, Claude, 3,640,457.
 Colinet, Andre; and Mercier, Jacques, 3,693,532.
 Dumontier, Jean-Michel, 3,692,345.
 Dutot, Christian, 3,649,090.
 Esselin, Raymond; and Poirier, Jean-Claude, 3,652,441.
 Falay, Bernard; and Froumajou, Armand, 3,670,586.
 Fleury, Jean; and Pinot, Jean, 3,673,072.
 Fournier, Roger, 3,704,213.
 Froumajou, Armand, 3,642,296.
 Froumajou, Armand; and Falay, Bernard, 3,673,882.
 Froumajou, Armand P., 3,672,698.
 Galas, Jacques, 3,645,145.
 Goetz, Bernard, 3,654,692.
 Guettier, Michel, 3,669,510.
 Le Mire, Noel, 3,669,397.
 Leger, Andre, 3,668,411.
 Leger, Andre, 3,680,656.
 Lombard, Claude; and Perrin, Jean-Louis, 3,691,873.
 Maistrelli, Roger, 3,642,388.
 Mangin, Jean-Pierre, 3,673,995.
 Maurice, Jean; and Piret, Jean, 3,636,795.
 Mauron, Gerard, 3,649,786.
 Mercier, Jacques, 3,648,590.
 Moulin, Jean; and Regneault, Marcel, 3,667,438.
 Pernoud, Claude, 3,703,141.
 Pillot, Maurice; and Kilian, Louis, 3,703,847.
 Piret, Jean, 3,703,107.
 Regneault, Marcel; and Le Creurer, Maurice, 3,677,256.
 Remaud, Jacques, 3,704,895.
 Remaud, Jacques C.; and Bouthors, Pierre, 3,703,320.
 Richard, Gilbert; and Moronval, Gerard, 3,675,033.
 Rouvre, Philippe; and Peroy, Francois, 3,657,626.
 Rouvre, Philippe A. R.; Pineau, Jean E.; and Peroy, Francois, 3,633,085.
 Slehofer, Ladislav, 3,704,379.
 Sutren, Claude, 3,658,378.
 Tiberghien, Pierre, 3,667,706.
 Tixier, Michel, 3,638,748.
 Tixier, Michel, 3,673,837.
 Tixier, Michel, 3,688,558.
 Automotive Exhaust Control Corporation: *See—*
 Loudenslager, Ray D., 3,669,420.
 Automotive Products Company Limited: *See—*
 Chouings, Leslie C., 3,650,571.
 Chouings, Leslie C., 3,658,390.
 Crawford, Peter F., 3,695,398.
 Davies, David A., 3,661,238.
 Packer, Mervyn B.; and Judge, Gordon W., 3,682,515.
 Packer, Mervyn Brian, 3,632,177.
 Packer, Mervyn Brian; and Judge, Gordon W., 3,635,530.
 Utton, Norman, 3,640,364.
 Autopan Heimerdinger & Stabler o.H.G.: *See—*
 Stabler, Theodor, 3,693,529.
 Autoquip Corporation: *See—*
 Clarke, Dudley S.; and Camera, Jack, 3,705,987.
 Autoscan, Inc.: *See—*
 Pelta, Edmond R., 3,633,412.
 Pelta, Edmond R.; and Gold, Kenneth Stewart, 3,638,107.
 Pelta, Edmond R.; and Gold, Kenneth Stewart, 3,665,294.
 Autotrol Corporation: *See—*
 Antonie, Ronald L., 3,704,783.
 Danek, August J., 3,659,128.
 Henning, Donald S., 3,685,792.
 Henning, Donald S., 3,685,794.
 Prosser, David G., 3,646,819.
 Prosser, David G., 3,658,180.
 Prosser, David G., 3,672,236.
 Prosser, David G., 3,684,704.
 Autovox S.p.A.: *See—*
 Cicatelli, Rodolfo, 3,669,455.
 Autry, Robert F., to Devro, Inc. Production of meat snack product and product. 3,664,849, 5-23-72, Cl. 99-107.
 Auzines, John: *See—*
 Dillman, Ned E.; and Auzines, John, 3,633,159.
 A.V. Corporation N.V., The: *See—*
 Dimitracopoulos, Panayotis C., 3,644,032.
 Avallone, Samuel C., to United States Steel Corporation. Bright-finish welding wire. 3,700,494, 10-24-72, Cl. 117-202.000.
 Avant Incorporated: *See—*
 Kuhns, Roger J., 3,635,782.
 Kuhns, Roger J., 3,640,161.
 Kuhns, Roger J.; and Macleod, Bruce H., 3,666,603.
 Kuhns, Roger J., 3,679,514.
 Kuhns, Roger J., 3,684,615.
 Maccone, Frederick W., 3,679,512.
 Maccone, Frederick W.; and La Fortune, Normand J., 3,687,040.
 Maccone, Frederick W.; and La Fortune, Normand, 3,687,273.
 Avant Industries, Inc.: *See—*
 Ettlinger, Ralph, Jr.; and Kostohryz, Frank J., 3,653,507.
 Ettlinger, Ralph, Jr.; and Strobl, Frederick P., Jr., 3,670,911.
 Ettlinger, Ralph, Jr.; and Strobl, Frederick P., Jr., 3,675,770.
 Avant, Ralph L. Hunter's blind. 3,642,318, 2-15-72, Cl. 297-184.
 Avco Corporation: *See—*
 Abernathy, Robert G., 3,659,449.
 Allen, Richard A., 3,675,477.
 Anderson, Glenn A., 3,644,988.
 Avery, Paul A., 3,693,666.
 Belason, E. Bruce; Castle, George K.; Crowley, Donald P.; and Morgida, Joseph V., 3,647,193.
 Benner, David E., 3,636,879.
 Benner, David E., 3,664,264.
 Bird, Waldo R.; and Shank, Wayne C., 3,666,064.
 Black, Jay I., 3,651,639.
 Brandel, Wynand W.; and Klass, Lawrence S., 3,705,511.
 Brennan, Leo C., 3,634,143.
 Bruck, George, 3,643,163.
 Burke, Howard B., Jr., 3,687,082.
 Caristi, Robert F.; and Leonard, Donald A., 3,633,127.
 Church, Donald E., 3,659,853.
 Cousins, Nicholas T., 3,690,775.
 Cronstedt, Val, 3,632,222.
 Cronstedt, Val, 3,677,662.
 Cronstedt, Val, 3,677,663.
 Daugherty, Jack D.; Douglas-Hamilton, Diarmaid H.; Patrick, Richard M.; and Pugh, Evan R., 3,702,973.
 Dickey, Thomas A., 3,673,771.
 Doyle, Brian W., 3,671,171.

- Doyle, Brian W.; Rygelis, Joseph; and Sweet, Ervin J., 3,692,334.
 Elmore, Robert E., 3,670,162.
 Federico, Armando; and Guarino, Henry R., 3,698,381.
 Gregory, David L., 3,675,182.
 Grubba, Donald C., 3,640,757.
 Hughes, Charles T.; and Mc Henry, Robert J., 3,657,190.
 Jahn, Paul F., 3,632,710.
 Kaiser, Robert, 3,635,819.
 Kaiser, Robert, 3,700,595.
 Leonard, Donald A.; and Smith, Henry W., 3,636,472.
 Lucas, Edward J.; and Lafrance, Jean C., 3,664,268.
 Lucas, Joseph G.; Freeman, William R., Jr.; and Rentz, Warren A., 3,656,919.
 Lucas, Joseph G.; and Zuryk, John, 3,697,401.
 Marcio, Roger A.; and Winton, Orrin J., 3,680,371.
 Maresca, Neal J.; and Winton, Orrin J., 3,678,743.
 Martin, Geoffrey, 3,660,891.
 Martin, John J., 3,672,194.
 McGowan, Kenneth J. J., 3,673,963.
 Melconian, Jerry O., 3,645,095.
 Mertens, William J., 3,670,651.
 Miskolczy, Gabor; and Kaiser, Robert, 3,667,251.
 Myer, James A.; Sharma, Ramesh D.; and Kierstead, Edward J., 3,684,979.
 Neff, George J., Jr., 3,646,566.
 O'Connor, John A., 3,706,510.
 O'Connor, William M., 3,702,140.
 Oomen, Johannes A. F., 3,646,413.
 Oomen, Johannes A. F., 3,704,409.
 Rygelis, Joseph; Sweet, Ervin J.; and Doyle, Brian W., 3,672,162.
 Shank, Wayne C., 3,671,140.
 Slayden, James D., 3,662,508.
 Slayden, James D., 3,671,063.
 Smith, Emile G.; and Puskas, William L., 3,673,432.
 Soellner, Arthur M.; Sprouse, James F.; and Raju, Triponithura A., 3,663,857.
 Stiff, Bernard G. E.; and Finelli, Thomas M., 3,675,980.
 Sweet, Ervin J.; Doyle, Brian W.; and Rygelis, Joseph, 3,698,743.
 Thorstenson, Rolf A., 3,672,787.
 Wakefield, Shirley L., 3,673,063.
 Watkins, Sidney C., 3,702,175.
 Webb, George, 3,696,544.
 Wolf, David L.; and Stelzer, Robert A., 3,638,506.
 Avdel Limited: *See—*
 Summerlin, Frederick A., 3,645,125.
 Avidenko, Anatol; and Erway, Bruce C., to General Motors Corporation. Remote engine start and stop system. 3,657,720, 4-18-72, Cl. 343-225.
 Avedikian, Souren Zacharia. Continuous process for production of isocinchomeric acid and nicotinic acid. 3,657,255, 4-18-72, Cl. 260-295.5.
 Avedis Zildjian Avedis Company: *See—*
 Zildjian, Robert, 3,640,029.
 Avelines, Raymond Andre, to Crane S.A. Cock with spherical casing. 3,675,893, 7-11-72, Cl. 251-152.
 Avena, Salvatore: *See—*
 Leiner, Robert L.; and Avena, Salvatore, 3,640,150.
 Meyer, Marvin; Avena, Salvatore; and Leiner, Robert L., 3,659,682.
 Avena, Salvatore; and Richardson, Harry L., to Curtiss-Wright Corporation. Rotation transmission mechanism. 3,668,940, 6-13-72, Cl. 74-89.150.
 Averbach, Alexander U., to Dick, A. B., Company. Reversal electrostatic toner composition. 3,674,693, 7-4-72, Cl. 252-62.100.
 Averbach, Alexander U., to Dick, A. B., Company. Photochromic element. 3,687,672, 8-29-72, Cl. 96-90.0pc.
 Averbach, Alexander U. Electrophotographic copy process and element produced in same. 3,689,769, 9-5-72, Cl. 250-65.0ze.
 Averbuch, Joseph. Apparatus for severing and stripping insulated wire. 3,638,517, 2-1-72, Cl. 81-9.51.
 Averett, Sumner S.: *See—*
 Flieder, Robert A.; and Averett, Sumner S., 3,649,913.
 Averette, Samuel R.: *See—*
 Davis, Delbert A.; Averette, Samuel R.; and Voss, Gary Dwight, 3,642,563.
 Averill, Frederick John; and Riley, Norman, to Imperial Chemical Industries Limited. Process for preparing mesidine. 3,674,852, 7-4-72, Cl. 260-578.000.
 Averkiou, George: *See—*
 Drozdowicz, Kenneth Paul; Fowler, William Rey; and Averkiou, George, 3,665,266.
 Averton Gear and Tool Corporation: *See—*
 Leming, John C., 3,670,583.
 Avery, Gilbert H. Variable volume constant throw terminal re-heat system. 3,650,318, 3-21-72, Cl. 165-22.
 Avery, Hazelton H. Multi-stage calciner. 3,692,285, 9-19-72, Cl. 263-30.000.
 Avery, Julian M. Process for the metallothermic production of magnesium. 3,658,509, 4-25-72, Cl. 75-67.
 Avery, Julian M. Use of high-silicon as the reductant for the metallothermic production of magnesium. 3,681,053, 8-1-72, Cl. 75-67.000.
 Avery, Julian Miles. Metallothermic production of magnesium. 3,698,888, 10-17-72, Cl. 75-67.000.
 Avery, Larry E.: *See—*
 Hinton, Everett H., Jr.; and Avery, Larry E., 3,650,801.
 Avery, Lowell R.; and Conklin, Wayne A., to Dow Chemical Company. The. Corrosion inhibitor system for functional fluids. 3,640,873, 2-8-72, Cl. 252-87.
 Avery, Paul A., to Avco Corporation. Flow control valve. 3,693,666, 9-26-72, Cl. 137-57.000.
 Avery Products Corporation: *See—*
 Burton, Robert, 3,655,492.
 Moore, John R.; Noack, William L.; and Roser, Robert A., 3,696,967.
 Muny, Richard P.; and Wilson, David W., 3,639,500.
 Pekko, John A., 3,631,617.
 Sauer, Anton, 3,645,832.
 Smith, Robert D., 3,662,681.
 Avery, Robert T.; Lambertson, Glen R.; and Pike, Chester D., to United States of America, Atomic Energy Commission. Printed circuit steering coils. 3,702,450, 11-7-72, Cl. 335-213.000.
 Avery, Roger Peter: *See—*
 Zerlin, William Max Erich; Avery, Roger Peter; and Royce, David Hugh, 3,671,922.
 Avery, Roger Peter, to Bunker-Ramo Corporation, The. Coaxial connector having one-piece clamp assembly. 3,676,573, 7-11-72, Cl. 174-75.00c.
 Avery, W. & T., Limited: *See—*
 Beardmore, Alfred Cyril; Cooke, Geoffrey Cyril; and Stringer, Donald Charles, 3,647,010.
 Cooke, Geoffrey Cyril, 3,667,560.
 Avery, William L.: *See—*
 Hayhurst, Lewis J.; Avery, William L.; and Gels, Clarence B., 3,649,303.
 Aves, Donald J.: *See—*
 Seipel, Hans J.; Gancarz, Walter F.; and Aves, Donald J., 3,672,379.
 Avesta Jernverks Aktiebolag: *See—*
 Bjorkroth, Jarl A., 3,700,851.
 Morsing, Lars Johan Gustaf, 3,650,709.
 Avgerinos, Costas; and Cofek, Henry R., to Avgerinos, Inc. Parallel input printing mechanism. 3,648,602, 3-14-72, Cl. 101-93.
 Avgerinos, Inc.: *See—*
 Avgerinos, Costas; and Cofek, Henry R., 3,648,602.
 Avi-Simplot, Inc.: *See—*
 Colosky, George V., 3,665,553.
 Avianer, Stig, to Allmanna Svenska Elektriska Aktiebolaget. Frequency relay. 3,693,081, 9-19-72, Cl. 324-78.00r.
 Avila, Oscar R. Multi-scale drawing instrument. 3,665,611, 5-30-72, Cl. 33-148.
 Avilov, Iliya Yakovlevich: *See—*
 Plachenov, Tikhon Grigorievich; Belotserkovsky, Grigory Markovich; Dolgova, Ekaterina Nikolaevna; Ezhov, Jury Valentinovich; Fogel, Vladimir Alexandrovich; Benediktov, Andrei Pavlovich; and Avilov, Iliya Yakovlevich, 3,704,806.
 Avins, Jack, to RCA Corporation. Balanced angle modulation detector. 3,667,060, 5-30-72, Cl. 329-103.000.
 Avins, Jack; and Craft, Jack, to RCA Corporation. Combined tuning and signal strength indicator circuit with signal strength indication derived from each IF amplifying stage. 3,673,499, 6-27-72, Cl. 325-398.000.
 Avins, Jack, to RCA Corporation. Amplifier-limiter circuit with reduced AM to PM conversion. 3,678,405, 7-18-72, Cl. 330-26.000.
 Avins, Jack, to RCA Corporation. Variable gain amplifier. 3,678,406, 7-18-72, Cl. 330-29.000.
 Avins, Jack; and Kirkwood, Loren Robert, to RCA Corporation. Control apparatus for a color television receiver. 3,679,816, 7-25-72, Cl. 178-5.4he.
 Avins, Jack; and Craft, Jack, to RCA Corporation. Automatic frequency control circuits. 3,697,885, 10-10-72, Cl. 331-8.000.
 Avions Marcel Dassault: *See—*
 Deplante, Henri, 3,680,435.
 Labussiere, Andre Julien; and Leon, Joseph Henri, 3,692,141.
 Avions Marcel Dassault and Confederation Suisse, rep. by Fabrique Federale: *See—*
 Kamber, Heinrich; Hausammann, Werner; and Deplante, Henri, 3,642,234.
 Avions Marcel Dassault: *See—*
 Deplante, Henri, 3,680,815.
 Avis Industrial Corporation: *See—*
 Duquette, William F.; Stormzand, Dale T.; and Rauhauser, Warren C., 3,633,628.
 Avison Corporation: *See—*
 Khelghatian, Habet M.; and Poppe, Wassily, 3,674,536.
 Khelghatian, Habet M.; and Poppe, Wassily, 3,682,693.

- Khelghatian, Habet M.; Poppe, Wassily; and West, Harry J., 3,682,695.
 Knaack, Donald F., 3,644,581.
 Knaack, Donald F., 3,644,582.
 Poppe, Wassily; and Khelghatian, Habet M., 3,632,393.
 Thompson, Donald F.; Quartermus, George D.; and Quinn, Thomas M., 3,672,944.
 Avisun Corporation, mesne: See—
 Port, Morton L., 3,639,573.
 Avitzur, Betzalel. Shaping of hollow workpieces. 3,685,337, 8-22-72, Cl. 72-347,000.
 AVM Corporation: See—
 Cook, Arnold G., 3,648,022.
 Ditonto, Alexander N.; and Lindros, Charles J., 3,655,125.
 Harter, Robert M., 3,704,003.
 Johnson, Jesse R., 3,683,753.
 Martin, Afton V.; and Modovan, Michael T., Jr., 3,654,709.
 Moldovan, Michael Terrance, Jr., 3,677,462.
 Avnet, Inc.: See—
 Vitale, Joseph Michael, 3,680,027.
 Avnet, Inc., mesne: See—
 Greenfield, Alec, 3,637,186.
 Avon Products, Inc.: See—
 Hiland, Lewis R., 3,693,672.
 Milcos, Vassilios, 3,684,185.
 Avon Rubber Company Limited: See—
 Carter, Douglas Vaughan, 3,687,293.
 Avoset Food Corporation: See—
 Ingerson, Philip F., 3,695,889.
 Avramidis, Stelios Antony, to FMC Corporation. Silent chain and method of assembly thereof. 3,661,025, 5-9-72, Cl. 74-245.
 AVRCA Corporation: See—
 Mischel, Howard T., 3,692,337.
 Avril, Arthur C., to A & T Development Corporation. Bag stacking machine. 3,675,790, 7-11-72, Cl. 214-6,00p.
 Avrillon, Rene; and Defives, Daniel, to Institut Francais du Petrole, des Carburants et Lubrifiants. Adsorbing compositions, their manufacture and use in a new process for separating alkylbenzene from mixtures thereof. 3,662,014, 5-9-72, Cl. 260-674.
 Avrillon, Rene; Franckowiak, Sigismund; Gatellier, Claude; and Glikmans, Georges, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for cultivating micro organisms in the presence of hydrocarbons. 3,698,998, 10-17-72, Cl. 195-28,000.
 Avron, Mordhay: See—
 Schneyour, Amir; and Avron, Mordhay, 3,679,139.
 Awano, Taikichi: See—
 Hikida, Ryotaro; Awano, Taikichi; Itoh, Junichiro; Danno, Atsushi; Matsui, Masao; Inaba, Mitigi; and Isogai, Mituyuki, 3,683,659.
 Hikida, Ryotaro; Awano, Taikichi; Danno, Atsushi; and Kojima, Yoshiro, 3,686,917.
 Awano, Yoji: See—
 Kimura, Takashi; Majima, Azusa; Hamamoto, Hiroshi; and Awano, Yoji, 3,674,472.
 Award International, Inc.: See—
 Tytel, Bernard, 3,631,544.
 Awata, Hiroshi: See—
 Yamamoto, Hisao; Atsumi, Toshio; and Awata, Hiroshi, 3,682,914.
 Awater, Albert: See—
 Meisert, Ernst; Awater, Albert; Muhlhausen, Cornelius; and Dobereiner, Uwe, 3,684,770.
 Awazu, Kenzo; Matsunaga, Kazu; Muto, Katsutoshi; Kai, Junjiro; and Oi, Kyoko, to Mitsubishi Denki Kabushiki Kaisha. Yttrium orthophosphate phosphor. 3,673,103, 6-27-72, Cl. 252-301.101.
 Awebro, Folke Hildemar. Device for supporting and transporting a cable drum. 3,652,026, 3-28-72, Cl. 242-86.5.
 Awcida, Jesse I.; Arthur, William C.; and Powers, Gale A., to Storage Technology Corporation. Reel control system for magnetic tape apparatus. 3,664,604, 5-23-72, Cl. 242-185.
 Aweimrine, Kamal Y. Mechanical lock cylinder. 3,640,139, 2-8-72, Cl. 74-89.15.
 Axbard, Gunnar Bertil, to SKF Industrial Trading and Development Company N.V. Method for manufacturing rolling bearing components and component manufactured according to the method. 3,644,971, 2-29-72, Cl. 29-148.4.
 Axelrod, Michael; Marsh, William S.; Rao, Koppaka V.; and Sodano, Charles S., to Pfizer Inc. Mitomycin and method for its production. 3,644,617, 2-22-72, Cl. 424-115.
 Axelrod, Norman N., to Bell Telephone Laboratories, Incorporated. Photomask inspection by spatial filtering. 3,658,420, 4-25-72, Cl. 356-71.
 Axelrod, Norman Nathan, to Bell Telephone Laboratories, Incorporated. Group III-V Schottky barrier diodes. 3,675,316, 7-11-72, Cl. 29-576,000.
 Axelson, Carl A.; Hines, John R.; and McGann, Elton Y., to United States of America, Navy. Pressure actuated acoustic signal source. 3,672,300, 6-27-72, Cl. 102-10,000.
 Axelson, Carl A.; Hines, John R.; McGann, Elton Y.; and Johnson, Robert M. Underwater sound signal for explosive echo ranging. 3,701,319, 10-31-72, Cl. 102-7,000.
 Axelson Fishing Tackle Mfg., Co.: See—
 Immenroth, Otto; and Eschbach, Robert C., 3,691,616.
 Axelsson, Per A. T. Apparatus for cleaning or polishing of teeth. 3,660,902, 5-9-72, Cl. 32-58.
 Axelsson, Sabud, to Arenco Aktiebolag. Glue transferring device. 3,640,244, 2-8-72, Cl. 118-212.
 Axen, Rolf E. A. V.; Porath, Jerker Olof; and Ernbach, Erik Sverker, to Pharmacia AB. Method of binding water soluble proteins and water soluble peptides to water-insoluble polymers using cyanogen halide. 3,645,852, 2-29-72, Cl. 195-68.
 Axenfeld, Stanley E. Laundry conveyor. 3,666,081, 5-30-72, Cl. 198-43.
 Axhamre, Franz Lennart, to Moderna Butiksinnredningar AB. Rotatable display stand. 3,641,950, 2-15-72, Cl. 108-60.
 Axisa, Walter, to Gemini Investment Etablissement. Bracelets and the like. 3,706,117, 12-19-72, Cl. 24-206,000.
 Axtell, William R.; and DeWitt, Earl G., to Ethyl Corporation. High foaming mixtures of fatty alcohol sulfates. 3,660,313, 5-2-72, Cl. 252-545.
 Axthammer, Ludwig, to Marker, Hannes. Toe iron for safety ski bindings. 3,658,355, 4-25-72, Cl. 280-11.35.
 Axtrmann, Adam, to Maschinenfabrik Lorenz AG. Punching apparatus. 3,640,167, 2-8-72, Cl. 83-380.
 Aya, Masahiro: See—
 Hirane, Seiichi; Aya, Masahiro; and Kishino, Shigeo, 3,706,832.
 Schrader, Gerhard; Eue, Ludwig; Hack, Helmut; Hirane, Seiichi; Aya, Masahiro; Kishino, Shigeo; and Fukazawa, Nobuo, 3,636,143.
 Schrader, Gerhard; Eue, Ludwig; Hack, Helmut; Hirane, Seiichi; Aya, Masahiro; Kishino, Shigeo; and Fukazawa, Nobuo, 3,705,929.
 Ayad, Kamal Naguib: See—
 Long, Frank; and Ayad, Kamal Naguib, 3,697,251.
 Ayad, Kamal Naguib, to Monsanto Chemicals Limited. Thioalkylthiobenzothiazoles. 3,639,663, 2-1-72, Cl. 260-306.
 Ayad, Karl, to Monsanto Chemicals Limited. Certain substituted nitro or dinitro-amino pyridines. 3,634,439, 1-11-72, Cl. 260-295.
 Ayad, Karl, to Monsanto Chemicals Limited. Nitramino pyridine derivatives. 3,641,042, 2-8-72, Cl. 260-296.
 Ayaki, Kazuo: See—
 Terazawa, Yoshizumi; and Ayaki, Kazuo, 3,678,317.
 Ayala, Kenneth J.: See—
 Krause, Ronald O.; and Ayala, Kenneth J., 3,687,151.
 Ayano, Hiroyoshi; Kibino, Yasuaki; Sato, Hiroyoshi; Ohta, Yukihiko; and Fukuhara, Minoru, to Matsushita Electric Works, Ltd. Compound for electric devices. 3,683,303, 8-8-72, Cl. 336-96,000.
 Ayano, Satoshi; and Yabe, Seizo, to Japan Gas-Chemical Company, Inc. Process for manufacture of polymers of conjugated dienes. 3,660,536, 5-2-72, Cl. 260-880.
 Ayas, David M., Jr., to Ayars Fillers, Inc. Container filler-valve volume adjustment. 3,695,315, 10-3-72, Cl. 141-368,000.
 Ayars Fillers, Inc.: See—
 Ayars, David M., Jr., 3,695,315.
 Ayd, Frank J., III; and Long, Stephen E., to Catalyst Research Corporation. Thermal battery initiation sequencer. 3,639,773, 2-1-72, Cl. 307-48.
 Aydelott, Max M.; Beilfuss, Richard W.; and Borchert, Ernst, III, to Omark-Winslow Aerospace Tool Co. End mill grinder. 3,680,262, 8-1-72, Cl. 51-96,000.
 Aydin, Kemal: See—
 Klockenbrink, Joseph M.; and Aydin, Kemal, 3,675,076.
 Ayel, Michel, to U.S. Philips Corporation. Necked housing in float zone refining. 3,690,848, 9-12-72, Cl. 23-301.0sp.
 Ayella, Edmond R., to Penntube Plastics Company. Colored heat shrinkable elastomeric tubing. 3,674,733, 7-4-72, Cl. 260-30,600.
 Ayer, Donald E.; and White, David R. Process for production of ex-gatta-4,22-dien-3-one from ergosterol. 3,689,511, 9-5-72, Cl. 260-397,200.
 Ayer, Donald Emory; Babcock, John C.; and Campbell, J. Allan, to Upjohn Company, The. Organic processes. 3,654,320, 4-4-72, Cl. 260-397.4.
 Ayers, David T., Jr., to Kelsey-Hayes Company. Proportioning device. 3,695,730, 10-3-72, Cl. 303-6,000.
 Ayers, Earl D.: See—
 Langer, Horst G.; Karle, Franklin J.; and Ayers, Earl D., 3,667,278.
 Ayers, James E.: See—
 Fernandez, Jaime B.; and Ayers, James E., 3,671,652.
 Ayers, Maurice Donald, to Metal Innovations, Inc. Method for producing low oxide metal powders. 3,646,176, 2-29-72, Cl. 264-11.
 Ayers, Maurice Donald, to Metal Innovations, Inc. Method and means for converting metal powders to continuous strip form. 3,686,376, 8-22-72, Cl. 264-40,000.
 Ayers, Oma Merle. Hide-away decor ironing center. 3,663,080, 5-16-72, Cl. 312-237.

- Ayers, Orval E.; and White, Niles C., to United States of America, Army. Method for operating a hybrid rocket engine. 3,662,555, 5-16-72, Cl. 60-220,000.
 Ayers, Peter John Henry, to T. V. Manufacturing Limited. Electric transducers for tension control in a winding device. 3,665,270, 5-23-72, Cl. 318-6.
 Ayers, Peter John Henry, to Pye Limited. Magnetic transducer. 3,681,669, 8-1-72, Cl. 318-138,000.
 Ayers, Ray R. Floating boom for oil-soaked material. 3,648,463, 3-14-72, Cl. 61-1.
 Ayers, Ray R.; Titus, Paul E.; and Hanson, James R., to Shell Oil Company. Method and apparatus for deploying a floatable barrier. 3,664,504, 5-23-72, Cl. 210-83.
 Ayers, Ray R., to Shell Oil Company. Barge based skimming system for oil slicks. 3,684,095, 8-15-72, Cl. 210-242,000.
 Ayers, Robert C., Jr.: See—
 Penberthy, Walter L.; Bayless, Jack H.; and Ayers, Robert C., Jr., 3,664,425.
 Ayerst, McKenna & Harrison Limited: See—
 Bagli, Jehan F.; and Bogri, Tibor, 3,671,570.
 Bagli, Jehan F.; and Bogri, Tibor, 3,707,451.
 Bagli, Jehan F.; and Bogri, Tibor, 3,707,548.
 Bruderlein, Francois T.; and Humber, Leslie G., 3,657,250.
 Davis, Martin A.; and Dobson, Thomas A., 3,641,038.
 Humber, Leslie G., 3,649,692.
 Laliberte, Real, 3,644,357.
 Laliberte, Real, 3,707,482.
 Lippmann, Wilbur, 3,670,088.
 Lippmann, Wilbur, 3,697,654.
 Sestanj, Kazimir; and Chomedey, Laval, 3,682,963.
 Aykanian, Ardush A., to Monsanto Company. Method for extruding a foamed thermoplastic polymer. 3,658,973, 4-25-72, Cl. 264-53.
 Aykens, Hein: See—
 Holland, John P.; and Aykens, Hein, 3,703,061.
 Aylies, Sergeant E.; Hillhouse, Mial T.; Kyriakis, Alexander; and Pengilly, Brian W. Polymeric aromatic compositions. 3,634,339, 1-11-72, Cl. 260-2.
 Ayling, John K.; and Moore, Richard D., to International Business Machines Corporation. Monolithic memory system with bi-level powering for reduced power consumption. 3,688,280, 8-29-72, Cl. 340-173,0ff.
 Aylott, Eric Victor, to Eylure Limited. Devices for applying beauty aids to the person. 3,703,180, 11-21-72, Cl. 132-88,700.
 Aylward, John R.; and Smith, James I., to United Aircraft Corporation. Carbon dioxide removal device. 3,661,753, 5-9-72, Cl. 204-212,000.
 Aymar, Julian Robert; deceased (by Aymar, Michael R.; administrator), to Surgical Dynamics Inc. Solenoid actuated flexible flapper valve. 3,645,495, 2-29-72, Cl. 251-129.
 Aymar, Michael R.: See—
 Aymar, Julian Robert, 3,645,495.
 Ayme-Jouve, Michel Louis: See—
 Esnault, Marc Roland Gilbert; and Ayme-Jouve, Michel Louis, 3,667,981.
 Ayotte, Robert A.: See—
 Degnan, Joseph F.; and Ayotte, Robert A., 3,649,475.
 Ayoub, Alfred: See—
 Ayoub, Theodore A.; and Ayoub, Alfred, 3,693,923.
 Ayoub, George S. Band-saw carrier and dispenser. 3,667,592, 6-6-72, Cl. 206-16,000.
 Ayoub, Theodore A.; and Ayoub, Alfred. Suspension device for a cake of soap. 3,693,923, 9-26-72, Cl. 248-360,000.
 Ayranto, Roy O., to Anthes Imperial Limited. Flail. 3,657,869, 4-25-72, Cl. 56-294.
 Ayres, Dwight T.; and Sibul, Leon H., to United States of America, Navy. Fast analog multiplier. 3,662,187, 5-9-72, Cl. 307-229,000.
 Ayres, John E., to Acu-Tech Corporation. Snap action valve for pressurized package. 3,647,121, 3-7-72, Cl. 222-402,24.
 Ayres, Reginald J., to General Electric Company. Electric incandescent lamp with tapered sealing collar. 3,646,387, 2-29-72, Cl. 313-274.
 Ayres, Richard H.; and Lieder, Gaylerd M., to Bemis Company, Inc. Bag hanger apparatus. 3,673,759, 7-4-72, Cl. 53-29,000.
 Ayres, Ronald L., to Fortin Plastics, Inc. Article for preventing edge defect in compression stretched acrylic sheet. 3,668,053, 6-6-72, Cl. 161-118.
 Ayres, William M.; and Henry, Ronald A., to United States of America, Navy. Gas generator composition containing a nitrogen rich compound and a catalyst. 3,677,841, 7-18-72, Cl. 149-92,000.
 Ayrodev Processes Limited: See—
 De Vroome, Harry Clarence, 3,673,097.
 Ayukawa, Yaichi: See—
 Tamura, Masabi; Yoda, Masayuki; Shinya, Seishi; and Ayukawa, Yaichi, 3,686,144.
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 Azarov, Boris Vasilievich: See—
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 Azato, Robert N., to General Binding Corporation. Hanger hardware for a director. 3,705,706, 12-12-72, Cl. 248-447,000.
 Aziende Colori Nazionali Affini Acna S.p.A.: See—
 Ponzini, Sandro; Castelli, Paolo; and Stanislao, Jean Lawendel, 3,642,787.
 Aziende Colori Nazionali Affini ACNA S.p.A.: See—
 Mangini, Angelo; Tundo, Antonio; Bonini, Bianca Flavia; and Rossetti, Marta, 3,663,541.
 Ponzini, Sandro; Castelli, Paolo; and Lewendel, Jean Stanislao, 3,639,398.
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 Azoplate Corporation: See—
 Gillich, Thomas N., 3,679,419.
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 Cluzel, Jean; and Souvion, Paul, 3,661,985.
 Paul, Claude; and Cheron, Henri, 3,695,856.
 Roche, Andre; Amanrich, Robert; and Cousserans, Gilbert, 3,667,904.
 Azud, Robert E.: See—
 Holland, William P.; and Azud, Robert E., 3,699,373.
 Azuma, Heiichi: See—
 Imoto, Minoru; Takemoto, Kiichi; and Azuma, Heiichi, 3,649,604.
 Azumi, Tsukuru: See—
 Mizunuma, Tsutomu; and Azumi, Tsukuru, 3,663,287.
 Azure, Leo L., Jr., to Automata Corporation. System and method for individually programmed automatic test grading and scoring. 3,643,348, 2-22-72, Cl. 35-48.
 Azzola, Roberto, to Saiag S.p.A. Industria Articoli Gomma. Extruded flexible sealing strip. 3,706,628, 12-19-72, Cl. 161-159,000.
 B & B: See—
 Bauer, Eddie, 3,673,727.
 B & B Chemical Company, Inc.: See—
 Fullerton, Donald E., 3,638,837.
 B & J Machinery Co., Inc.: See—
 Cobble, James T., 3,697,013.
 B & J Manufacturing Company, mesne: See—
 Corless, Lee M., 3,675,705.
 Corless, Lee M., 3,677,320.
 B & K Tool & Die Corporation: See—
 Sullivan, Edward F., 3,660,945.
 B. & S. Massey Limited: See—
 Wilson, Geoffrey, 3,703,823.
 B. F. Products Pty., Ltd.: See—
 Clark, William, 3,704,831.
 B&B Pipul, Inc.: See—
 Brighton, Jack Edward, 3,639,967.
 B&W Incorporated: See—
 Solum, James R., 3,661,209.
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 Baasch, Thomas L. Self luminous shift register information display. 3,681,754, 8-1-72, Cl. 340-168,00r.
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 Baba, George P.: See—
 Guinn, Frank; and Baba, George P., 3,640,242.
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Nagase, Shunji; Abe, Takashi; Baba, Hajime; and Kodaira, Kazuo, 3,687,825.
Baba, Hideo; and Gando, Masayoshi, to Sony Corporation. Method of making a fuel cell electrode by thermal decomposition. 3,681,146, 8-1-72, Cl. 136-120.0f.
Baba, Jun-ichi: See—
Mitsui, Tsuneo; Baba, Jun-ichi; and Yamada, Ikuo, 3,675,002.
Baba, Nobuyoshi; Adachi, Makoto; and Nagata, Hideo, to Asahi Kasei Kogyo Kabushiki Kaisha. Jointing composite materials for steel and aluminum. 3,689,232, 9-5-72, Cl. 29-196.000.
Baba, Paul D.; and Argentina, Giltan Michael, to Ampex Corporation. Lithium-titanium-zinc ferrites. 3,644,207, 2-22-72, Cl. 252-62.59.
Baba, Paul David: See—
Smit, Jan; Baba, Paul David; and Argentina, Giltan Michael, 3,694,361.
Baba, Shigeji: See—
Sakazume, Kaichiro; Sakamoto, Eiichi; Itoh, Shigemasa; Fujimori, Noboru; and Baba, Shigeji, 3,703,377.
Baba, Takashi; and Matsuoka, Chikara, to Toyota Jidosha Kogyo Kabushiki Kaisha. Ball joint. 3,647,249, 3-7-72, Cl. 287-90.
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Babaco Research, Inc.: See—
Teich, Rudor M., 3,639,897.
Babad, Harry, to Ott Chemical Company, The. Method of making tetramethyleneurea. 3,681,457, 8-1-72, Cl. 260-553.00r.
Babany, Lucien; and Poussin, Antoine, to C.I.T.-Compagnie Industrielle des Telecommunications. Frequency synthesizer with numerically controlled scanning voltage. 3,636,467, 1-18-72, Cl. 331-4.
Babayan, Vigen K.; and Lehman, Henry. Process for preparation and purification of polyglycerols and esters thereof. 3,637,774, 1-25-72, Cl. 260-410.6.
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Babb, Raymond E., 1/2 to Hanscom, Genevieve I.; formerly Magnuson, Genevieve I., 1/2 to Hanscom, Genevieve I., Magnuson, Robert, Thomson, Lois J.; formerly and Duggan, Lois J.; trustees of the estate of Magnuson, Roy M. Apparatus for sorting products according to their lengths. 3,669,263, 6-13-72, Cl. 209-82.000.
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Babbs, Frederick William, to Cox of Watford Limited. Slide for a vehicle seat. 3,685,872, 8-22-72, Cl. 308-6.00r.
Babcock & Wilcox Company, The: See—
Barborton, Carl Lieb; and Wiener, Murray, 3,665,893.
Clark, Frank Emmons, 3,706,247.
Forrer, Gilbert R., 3,655,983.
Forst, Donald L.; and Schrengauer, Edwin B., 3,638,674.
Jabsen, Felix S., 3,665,586.
Leirvik, Raymond M., 3,679,545.
Rackley, John M.; and Merryman, Ralph H., 3,650,476.
Ratcliffe, Temple W., 3,679,105.
Rosen, Philip J., 3,644,817.
Rosen, Philip J., 3,648,144.
Schanck, James L., 3,701,653.
Schluderberg, Donald C., 3,666,616.
Schluderberg, Donald C., 3,666,622.
Schluderberg, Donald C., 3,700,552.
Sprague, Theodore S., 3,635,287.
Weaver, Galen K.; Shaffer, Howard A.; and Coughlin, Stephen A., 3,676,575.
Babcock & Wilcox, Limited: See—
Hohnerlein, Gunther Ernst; Meinhardt, Gunther Max; and Hildebrand, Peter, 3,692,064.
Pacault, Pierre H.; and Dostantni, Albert, 3,640,339.
Babcock, Clarence L.: See—
Busdiecker, Robert A.; Rapp, James E.; and Babcock, Clarence L., 3,661,546.
Babcock, David L.; and Lederer, David B., to Eastman Kodak Company. Self-balancing apparatus for photographic cameras. 3,657,987, 4-25-72, Cl. 95-64.00d.

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Garratt, Joseph A.; and Ash, Leonard P., 3,673,529.
Muller, Michael, 3,694,777.
Babcock, Guy L.: See—
LaCombe, Donald J.; and Babcock, Guy L., 3,679,941.
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Ayer, Donald Emory; Babcock, John C.; and Campbell, J. Allan, 3,654,320.
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Babcock, Robert L., to Bonafide Pattern, Inc. Pattern duplicator. 3,653,291, 4-4-72, Cl. 90-13.2.
Babcock-Atlantique: See—
Pierart, Robert, 3,680,584.
Babel, Louis: See—
Peytavin, Pierre; and Babel, Louis, 3,702,630.
Babel, Louis, to Creusot-Loire. Ladle for inductive treatment. 3,703,601, 11-21-72, Cl. 13-27.000.
Babey, Victor Stephen. Apparatus for filling thin tubular containers with a liquid. 3,687,175, 8-29-72, Cl. 141-59.000.
Babic, Anthony T. Trowel device. 3,683,761, 8-15-72, Cl. 94-45.00a.
Babich, Herman B. Securing devices to be used with aircraft. 3,685,771, 8-22-72, Cl. 244-115.000.
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Babilis, Robert C.; and Liberti, Frank N., to General Electric Company. Stable carbonate polymer compositions. 3,634,312, 1-11-72, Cl. 260-45.8.
Babin, Mikhail Artemievich: See—
Rubinshtein, Sholom Yakovlevich; Babin, Mikhail Artemievich; Gutman, Anatoly Lvovich; Naumenko, Viktor Dmitrievich; Orlov, Evgeny Mikhailovich; Presman, Vladimir Alexandrovich; Maev, Veniamin Evnovich; and Bondarenko, Fedor Alexeevich, 3,678,664.
Babitsky, Boris Davidovich: See—
Kormer, Vitaly Abramovich; Babitsky, Boris Davidovich; Jufa, Tatyana Lvovna; and Poletaeva, Irina Alexandrovna, 3,660,369.
Babitzka, Rudolf: See—
Schlagmuller, Walter; and Babitzka, Rudolf, 3,662,987.
Babkina, Vera Jurievna: See—
Mitkevich, Eduard Mikhailovich; Korobanov, Vladimir Nikolaevich; Babkina, Vera Jurievna; Shakhova, Alexandra Filippovna; Mefodiev, Vladimir Nikolaevich; and Gaidash, Nikolai Ivanovich, 3,682,602.
Babler, Egon S., to Teletype Corporation. Shift control. 3,641,262, 2-8-72, Cl. 178-25.
Babson, Arthur L., to Warner-Lambert Company. Preparation of water-soluble, dyed substrates for amylase assay. 3,679,661, 7-25-72, Cl. 260-233.30r.
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Baccarini, Soemia. Device for use with apparatus for the counting of particles in suspension. 3,638,677, 2-1-72, Cl. 137-576.
Bacewicz, Anthony J.: See—
Lambert, Robert E.; Beal, Edward W.; and Bacewicz, Anthony J., 3,701,969.
Bach, Bert; and Gerber, Eliot S. Vibration isolation structure. 3,679,159, 7-25-72, Cl. 248-22.000.
Bach, Carl E.: See—
Hallford, Ben R.; and Bach, Carl E., 3,638,148.
Bach, Frederick Louis; Barclay, John Claire; and Cohen, Elliott, to American Cyanamid Company. 4-Bromo and chloro-4'-tertiary aminoalkoxy biphenyls. 3,652,590, 3-28-72, Cl. 260-326.5.
Bach, Frederick O., to Dick, A. B., Company. Image reproduction device. 3,632,208, 1-4-72, Cl. 355-108.
Bach, Georges Gustav: See—
Weisenborn, Frank Lee; Dolfini, Joseph Edward; Bach, Georges Gustav; and Bernstein, Jack, 3,682,981.
Bach, Hartwig C., to Monsanto Company. Polymers from aromatic primary diamines. 3,637,534, 1-25-72, Cl. 260-2.
Bach, Hartwig C.; and Hinderer, Helmuth E., to Monsanto Company. Allylamines from π -allylpalladium complexes. 3,642,902, 2-15-72, Cl. 260-585.

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Bach, Horst Werner, to U.S. Philips Corporation. Reading and/or writing device for record carriers in card form. 3,648,023, 3-7-72, Cl. 235-61.11.
Bach, Lloyd G.: See—
Ewald, Jerome T.; Bach, Lloyd G.; and Lewis, Richard L., 3,692,039.
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Piazza, Henry; and Bach, Pierre, 3,690,259.
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Bacher, Rudolph John; and Nakayama, Takashi, to Du Pont de Nemours, E. I., and Company. Hermetic printed capacitor. 3,683,245, 8-8-72, Cl. 317-261.000.
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Bachi, Robert W.; and Mitchell, John R., 3,659,795.
Bachi, Robert W.; and Mitchell, John R., to Bachi, Inc. Method of and apparatus for individually winding coils with paper separating its successive wire layers. 3,659,795, 5-2-72, Cl. 242-7.03.
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Taubitz, Bernd; and Bachle, Karl, 3,652,887.
Bachle, Karl; and Knorr, Jurgen, to Bosch, Robert, G.m.b.H. Arrangement for detecting sliding and slippage of vehicle wheels. 3,666,039, 5-30-72, Cl. 180-105.00e.
Bachle, Wilfred H.: See—
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Anderson, Robert E.; and Bachman, Augustus W., Jr., 3,660,200.
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Baker, Joseph W.; and Bachman, Gerald L., 3,673,200.
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Bachmann, Gerhard: See—
Dehnert, Johannes; and Bachmann, Gerhard, 3,661,898.
Troeger, Gottfried; Mueller, Gerhart Hermann; Bachmann, Gerhard; Spoor, Herbert; and Batzill, Wolfgang, 3,697,461.
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Bachmann, Howard John: See—
Kemp, Gordon Arthur; Bachmann, Howard John; Berkelhammer, Gerald; and Asato, Goro, 3,655,890.
Bachmann, Peter, to Ebauches Bettlach S.A. Chronograph movement. 3,643,422, 2-22-72, Cl. 58-74.
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Bachner, Alfred; Schneider, Karl; Ertel, Martin; and Schraml, Erika, to Siemens Aktiengesellschaft. Long distance communication dial exchange installation with central control. 3,636,243, 1-18-72, Cl. 178-3.
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Bachus, Klaus-Peter: See—
Rausch, Wilfried; von der Decken, Claus Benedikt; and Bachus, Klaus-Peter, 3,650,894.
Back, Anders Yngve, to Aktiebolaget Scania-Vabis. Apparatus for testing automobiles. 3,667,289, 6-6-72, Cl. 73-117.3.
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Wright, Lawrence, 3,645,531.
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Backer, Leonard N., to Burlington Industries, Inc. Automated production of men's boxer shorts. 3,678,516, 7-25-72, Cl. 2-224.00r.
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Backhaus, Peter Heinz. Stereo sound reproduction system. 3,680,936, 8-1-72, Cl. 312-7.000.
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Backiel, Robert M.: See—
Plump, Ralph E.; and Backiel, Robert M., 3,690,552.
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Backlund, Peter Stanley, to Union Oil Company of California. Manganese nutrient solution. 3,660,069, 5-2-72, Cl. 71-33.
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Cornwell, Charles E.; and Backus, James H., 3,669,418.
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Bernard, David L.; Backus, John K.; and Darr, William C., 3,644,232.
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Mersek, Leo D.; and Backus, Robert G., 3,688,545.
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- Bacti, Products, Inc.: *See—*
Witt, Boston E.; and Bennett, Homer A., 3,634,226.
- Badachhappe, Ramachandra B.: *See—*
Margrave, John L.; Badachhappe, Ramachandra B.; Wood, James L.; and Lagow, Richard J., 3,674,432.
- Badal, Jiri, to CKD Praha oborovy podnik. Arrangement for starting of thyristors, including the adjustment of the leading edge of the control pulse on the primary end of an impulse treatment. 3,681,677, 8-1-72, Cl. 321-11.000.
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Kiselev, Anatoly Efimovich; Mgebrishvili, Nadar Nikolaevich; Rokva, Marlen Mikhailovich; Makhatazde, Iosif Konstantinovich; Kakhiani, Shalva Viktorovich; Oganov, Sergei Ivanovich; Bakuradze, Georgy Valeryanovich; and Badalov, Petr Mikhailovich, 3,648,475.
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Steigman, Peter Edward; Badcock, Frank Robert; and Lamb, David Robert, 3,686,544.
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Amann, Herbert; and Bader, Erich, 3,700,650.
Amann, Herbert; and Bader, Erich, 3,705,876.
Haschke, Heinz; and Bader, Erich, 3,686,145.
- Bader, Erich; and Koert, Hubert, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process of making laminated sheet products. 3,639,191, 2-1-72, Cl. 156-284.
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- Bader, Frank: *See—*
Williams, Warren D.; Andrews, Loring B.; and Bader, Frank, 3,681,162.
- Bader, Gottfried, to Bodenseewerk Geratetechnik GmbH. Device for controlling the fuel supply with propeller turbojet engines for aircraft by means of a throttle lever and a trimming lever. 3,648,033, 3-7-72, Cl. 235-150.21.
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- Badertscher, Ernest: *See—*
Mourey, Jean-Jacques; and Badertscher, Ernest, 3,705,143.
- Badessa, Rosario S., to Damon Corporation. Organ stop memory circuit. 3,686,994, 8-29-72, Cl. 84-345.000.
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Gast, Arthur F.; and Wright, James E., 3,663,606.
Helzner, Albert E., 3,691,245.
Hughes, Richard E., 3,691,020.
- Korelitz, Theodore H.; and Brodie, Alvin C., 3,636,328.
Martel, Eugene H.; and Schuch, Gerald T., 3,639,497.
Miller, George M.; and Underwood, Max E., 3,705,617.
Sheel, Harold R., 3,639,103.
- Badger, Joe G.; and Valdettaro, Alarico A., to Sarkes Tarzian, Inc. Six position memory type UHF tuner. 3,689,853, 9-5-72, Cl. 334-55.000.
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Janssen, Gail E.; and Wildenberg, Henry N., 3,699,732.
Milchner, Erich G., 3,653,520.
- Badger N.V.: *See—*
Guery, Arie Y., 3,653,872.
- Badia, Frank Arthur: *See—*
Ansuini, Frank J.; Schramm, Jacob; and Badia, Frank Arthur, 3,640,781.
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- Badin, Jean-Claude: *See—*
Guillemin, Claude; and Badin, Jean-Claude, 3,658,481.
- Badische Anilin- & Soda-Fabrik Aktiengesellschaft: *See—*
Adolphi, Heinrich; Steimmig, Anna; and Spaenig, Hermann, 3,641,248.
- Adolphi, Heinrich; Steimmig, Anna; and Spaenig, Hermann, 3,681,375.
- Armbrust, Herbert, 3,634,514.
- Armbrust, Herbert; Sturm, Hans Juergen; Engelbach, Heinz; Wistuba, Hermann; Stoessel, Armin; and Krabetz, Richard, 3,699,134.
- Bachmann, Gerhard; and Adolphi, Heinrich, 3,702,892.
- Becht, Guenter; Kunde, Joachim; La France, Norman; and Mueller, Karl Robert, 3,707,344.
- Beck, Fritz; Guthke, Harald; and Leitner, Hans, 3,642,592.
- Beck, Fritz; Himmele, Walter; Haufe, Juergen; and Brunold, Andreas, 3,652,430.
- Beck, Fritz; and Csizi, Gotthard, 3,672,990.
- Becke, Friedrich; Fuchs, Friedrich; Kohlhaupt, Reinhold; Sander, Bruno; and Thewis, Josef, 3,632,623.
- Becke, Friedrich; and Sander, Bruno, 3,634,398.
- Becke, Friedrich; and Hagen, Helmut, 3,636,089.
- Becke, Friedrich; and Hagen, Helmut, 3,655,686.
- Becke, Friedrich; Fischer, Adolf; Hagen, Helmut; and Scheuerer, Guenter, 3,668,260.
- Becke, Friedrich; and Hagen, Helmut, 3,682,941.
- Becke, Friedrich; Fischer, Adolf; and Hagen, Helmut, 3,707,364.
- Berding, Christoph; Guenther, Paul; Koehler, Waldemar; and Schulz, Gerhard, 3,668,246.
- Berding, Christoph; Guenther, Paul; Schulz, Gerhard; and Koehler, Waldemar, 3,689,543.
- Biberacher, Gerhard, 3,705,231.
- Bobenheim-Roxheim, Manfred Gaeng; and Dimroth, Peter, 3,687,991.
- Bock, Gustav, 3,673,220.
- Bonitz, Eckhard, 3,634,293.
- Bronstert, Klaus; Buchholz, Karl; Echte, Adolf; and Hofmann, Juergen, 3,658,946.
- Bronstert, Klaus; Ladenberger, Volker; and Fahrback, Gerhard, 3,673,281.
- Brunner, Erwin; Platz, Rolf; Taglieber, Kurt; and Weinfurter, Kurt, 3,657,375.
- Brunner, Erwin; Platz, Rolf; Taglieber, Kurt; and Weinfurter, Kurt, 3,686,344.
- Buchner, Anton; Lang, Hans; Lenz, Johann; Unterstenhoffer, Leo; and Krieger, Wilhelm, 3,661,812.
- Buddrus, Joachim, 3,634,518.
- Burkhardt, Gottfried; and Hahn, Erwin, 3,637,805.
- Cadus, Anton; Uhr, Hermann; and Weber, Reinhold, 3,661,837.
- Corr, Hubert; Grossinsky, Ott-Alfred; Loesch, Norbert; and Pilch, Kurt, 3,632,648.
- Decker, Martin; Stechl, Hanns-Helge; Palm, Christof; and Buerger, Gert, 3,637,797.
- Decker, Martin; Schmidt, Joseph; Hoffmann, Herwig; and Pistor, Hans Joachim, 3,671,566.
- Dehnert, Johannes; Grosch, Walter; and Gnad, Gerhard, 3,635,939.
- Dehnert, Johannes; and Bachmann, Gerhard, 3,661,898.
- Dehnert, Johannes, 3,672,816.
- Dehnert, Johannes, 3,697,501.
- Diebold, Adolf; and Matthias, Marx, 3,698,929.
- Distler, Harry; and Widder, Rudi, 3,641,072.
- Distler, Harry; and Widder, Rudi, 3,652,633.
- Distler, Harry; Widder, Rudi; Stanger, Bernd; Mueller, Alfred; and Druschke, Wolfgang, 3,687,886.
- Doerfel, Helmut; and Zettler, Hans Dieter, 3,657,195.
- Eckert, Guenter; Marx, Matthias; Hartmann, Heinrich; and Wuertele, Lothar, 3,677,813.
- Endres, Horst; Fikentscher, Rolf; Maurer, Walter; Scharf, Emil; and Soenksen, Uwe, 3,642,572.
- Falkenstein, Georg; Peine, Hans Georg; Doerfel, Helmut; Raff, Paul; and Schuster, Ludwig, 3,703,595.
- Feinauer, Anton; Ruettiger, Wilhelm; Fikentscher, Rolf; and Pitteroff, Walter, 3,651,139.
- Fischer, Adolf; Becke, Friedrich; and Kohlhaupt, Reinhold, 3,634,452.
- Fischer, Adolf; Koenig, Karl-Heinz; Steinbrunn, Gustav; and Zschocke, Albrecht, 3,671,586.
- Fischer, Adolf; Becke, Friedrich; and Kohlhaupt, Reinhold, 3,704,310.
- Fischer, Hermann; Heil, Eduard; Swoboda, Johann; and Thoma, Richard, 3,634,300.
- Fischer, Roman; and Pommer, Horst, 3,639,437.
- Foehlich, Baldur, 3,652,648.
- Friedrichsen, Wilhelm; Poehler, Guenter; Goeschel, Gert; and Schaefer, Gerhard, 3,656,914.
- Friedrichsen, Wilhelm; and Goehre, Otto, 3,684,741.
- Frielingdorf, Hans; Mueller-Tamm, Heinz; and Mahling, Dieter, 3,634,166.
- Frielingdorf, Hans; Mueller-Tamm, Heinz; and Mahling, Dieter, 3,684,610.
- Fromm, Hermann Dieter; Leonhard, Karl Wilhelm; Mohr, Rudolf; Schwarzmann, Matthias; and Woehle, Horst, 3,657,236.
- Fuchs, Hugo; and Sperber, Heinrich, 3,637,751.
- Fuerst, Ernst; Adam, Karl; Hoffmann, Herwig; Pilch, Kurt; Windler, Siegfried; and Sanne, Walter, 3,649,627.
- Gaeth, Rudolf; Pfannmueller, Helmut; Stastny, Fritz; Trieschmann, Hans-George; Tatzel, Hermann; and Zizlsperger, Johann, 3,632,532.
- Gaeth, Rudolf; Stastny, Fritz; Breu, Rudolf; and Gaertner, Friedrich, 3,640,837.
- Gehm, Robert; Kastning, Ernst-Guenter; and Schneider, Kurt, 3,642,665.
- Gierth, Volker; Gropper, Hans; Meitzner, Franc Georg; and Urban, Friedrich, 3,691,145.
- Gnad, Gerhard, 3,657,218.
- Gnad, Gerhard, 3,673,170.
- Goelz, Horst; Suter, Hubert; Fust, Juergen; and Himmele, Walter, 3,635,968.
- Goerth, Helmut; and Armbrust, Herbert, 3,665,029.
- Gonon, Eugen, 3,674,387.
- Graefen, Hubert; and Kuron, Dieter, 3,664,831.
- Graefje, Heinz; and Flickinger, Erich, 3,703,444.
- Graf, Fritz; and Koenig, Horst, 3,706,770.
- Gropper, Hans; Mietzner, Franz; Ludwigshafen, Kinkel; Klaus, Rodenkirchen; and Urban, Friedrich, 3,635,936.
- Gropper, Hans; Mietzner, Franz Georg; and Urban, Friedrich, 3,642,747.
- Gropper, Hans; Stark, Kurt; Pfannmueller, Helmut; and Urban, Friedrich, 3,660,370.
- Guenther, Wolfgang; and Jeckel, Guenter, 3,631,883.
- Gulbins, Klaus; Wilhelm, Hans; Hartmann, Heinrich; and Eckell, Albrecht, 3,637,596.
- Hagen, Helmut; and Becke, Friedrich, 3,671,522.
- Hagen, Helmut; and Becke, Friedrich, 3,681,379.
- Hahn, Erwin; and Wippel, Hans Guenter, 3,642,767.
- Hansen, Guenter; and Seefelder, Matthias, 3,635,955.
- Hartmann, Hans Joerg; Schnell, Georg; Werst, Gerhard; Grossefingher, Horst; Hartmann, Job-Werner; and Bipp, Hansjoerg, 3,704,152.
- Heil, Eduard; Trieschmann, Hans-George; Willersinn, Herbert; Bolte, Herbert; and Bronstert, Klaus, 3,676,378.
- Henkler, Herbert; Hartmann, Heinrich; Gulbins, Klaus; and Wilhelm, Hans, 3,654,021.
- Hiller, Heinrich; and Pfitzner, Helmut, 3,657,217.
- Hiller, Heinrich; and Dimroth, Peter, 3,682,923.
- Himmele, Walter; Aquila, Werner; and Prinz, Richard, 3,649,672.
- Himmele, Walter; Quila, Werner; and Prinz, Richard, 3,661,980.
- Hintz, Hans, 3,669,923.
- Hock, Karl Ludwig; and Pommer, Ernst-Heinrich, 3,686,256.
- Hoffmann, Herwig; Lissner, Oskar; Merkel, Karl; and Scholz, Heinrich, 3,658,728.
- Hoffmann, Horst; Krauch, Carl Heinrich; Otto, Hans-Werner; and Volkert, Otto, 3,674,494.
- Jacobi, Hans-Rudolf; Hauser, Abel; and Hoffmann, Manfred, 3,642,974.
- Janson, Alfons; Poschmann, Franz; and Wittmann, Georg, 3,653,804.
- John, Harald; Luehdeemann, Rolf; Rittinger, Wilhelm; Sliwka, Artur; and Saum, Walter, 3,660,016.
- Kaufman, Otto; Daeuble, Manfred; Witsch, Heinz-Guenter; Luebecke, Enno; and Bayew, Dimiter, 3,671,176.
- Keppler, Hans-George; and Wesslau, Hermann, 3,666,704.
- Kiefer, Hans, 3,679,665.
- Kiefer, Hans; and Fischer, Adolf, 3,691,234.
- Kiehs, Karl; Koenig, Karl-Heinz; and Fischer, Adolf, 3,681,425.
- Kindler, Hubert; and Single, Winfried, 3,660,510.
- Koenig, Karl-Heinz; and Fischer, Adolf, 3,636,079.
- Koenig, Karl-Heinz; Steinbrunn, Gustav; Windel, Hermann; and Fischer, Adolf, 3,671,571.
- Koenig, Karl-Heinz; Maschke, Artur; and Fischer, Adolf, 3,679,678.
- Koenig, Karl-Heinz, 3,683,026.
- Krauch, Carl Heinrich, 3,637,382.
- Krauch, Carl Heinrich; and Sanner, Axel, 3,640,753.
- Krauch, Carl Heinrich; and Hoffmann, Horst, 3,682,808.
- Lange, Guenter; and Fabian, Wolfgang, 3,658,885.
- Lange, Guenter; Wippel, Hans Guenter; and Bermes, Rudolf, 3,661,889.
- Lange, Guenter, 3,658,784.
- Lehnerer, Wolfgang; Gueterbock, Hermann; and Kinkel, Klaus, 3,634,381.
- Leichtle, Otto, 3,639,466.

Liebold, Gert; and Oppenlaender, Knut, 3,684,734.
Maier, Karl, 3,687,985.
Maier, Karl, 3,694,467.
Marx, Matthias; Pohlmann, Heinz; and Klug, Hans, 3,644,316.
Marx, Matthias; Becker, Ernst; and Spoor, Herbert, 3,703,596.
Mayer, Udo; and Fleischer, Herbert, 3,658,461.
Meissner, Joachim, 3,633,409.
Meissner, Joachim, 3,640,127.
Merger, Franz, 3,686,304.
Mueller, Herbert; Overwien, Hermann; Koehl, Harald; and Pommer, Horst, 3,662,001.
Mueller, Herbert; Koehl, Harald; and Pommer, Horst, 3,670,028.
Mueller, Herbert; and Overwien, Hermann, 3,686,321.
Mueller, Herbert; Overwien, Hermann; and Pommer, Horst, 3,692,848.
Mueller-Tamm, Heinz; and Hofmann, Alfred, 3,655,504.
Mueller-Tamm, Heinz; and Hofmann, Alfred, 3,663,334.
Naarmann, Herbert, 3,632,790.
Naarmann, Herbert; and Georgii, Benedikt, 3,642,687.
Naarmann, Herbert; and Kiefer, Hans, 3,642,718.
Naarmann, Herbert; and Willersinn, Herbert, 3,681,285.
Naarmann, Herbert; and Hartmann, Heinrich, 3,697,575.
Nagel, Otto; Platz, Rolf; Taglieber, Kurt; Weinfurter, Kurt; and Wolf, Dieter, 3,635,038.
Nieswandt, Werner; Linge, Hermann; Pirzer, Hans; Hoerauf, Werner; and Hetz, Herbert, 3,639,659.
Nohe, Heinz, 3,636,092.
Nohe, Heinz; and Suter, Hubert, 3,684,668.
Osieka, Hans; Fischer, Adolf; and Kiefer, Hans Eugen, 3,644,112.
Osieka, Hans; Koenig, Karl-Heinz; Jung, Johann; and Distler, Harry, 3,652,255.
Osieka, Hans; Koenig, Karl-Heinz; and Pommer, Ernst-Heinrich, 3,660,421.
Overwien, Hermann; and Mueller, Herbert, 3,697,580.
Patsch, Manfred; and Eilingsfeld, Heinz, 3,671,536.
Petersen, Harro; Renner, Klaus-Christian; and Diem, Hans, 3,639,455.
Petersen, Harro; and Renner, Klaus-Christian, 3,652,563.
Petersen, Harro; and Reuther, Wolfgang, 3,658,804.
Petersen, Harro, 3,673,248.
Petersen, Harro, 3,684,811.
Petersen, Harro, 3,699,102.
Platz, Rolf; and Bauer, Karl Gerhard, 3,634,531.
Platz, Rolf; and Merger, Franz, 3,641,117.
Platz, Rolf; and Merger, Franz, 3,641,118.
Platz, Rolf; Nohe, Heinz; and Dockner, Toni, 3,642,889.
Poehler, Guenter; Wolf, Ludwig; Corr, Hubert; and Pilch, Kurt, 3,634,512.
Pochler, Guenter; Suter, Hubert; Wirth, Friedrich; and Walter, Johann Heinrich, 3,686,229.
Pohlmann, Heinz; Roemer, Frithjof; and Swoboda, Johann, 3,634,371.
Pohlmann, Heinz; Wurmb, Rolf; Kunde, Joachim; and Stanger, Bernd, 3,637,908.
Pohlmann, Heinz; and Wurmb, Rolf, 3,679,737.
Pommer, Horst; Mueller, Herbert; Mangold, Dietrich; and Palm, Christof, 3,637,817.
Pommer, Horst; Mueller, Herbert; Mangold, Dietrich; and Overwien, Hermann, 3,655,735.
Pommer, Horst; Mueller, Herbert; and Overwien, Hermann, 3,655,768.
Pommer, Horst; Mueller, Herbert; Koehl, Harald; and Overwien, Hermann, 3,658,911.
Pommer, Horst; Seid, Bernhard; Nuerrenbach, Axel; Klotmann, Georg; and Grassner, Hans, 3,681,466.
Reicheneder, Franz; Kropp, Rudolf; and Fischer, Adolf, 3,652,562.
Reicheneder, Franz; and Kropp, Rudolf, 3,671,525.
Reicheneder, Franz; Kropp, Rudolf; and Fischer, Adolf, 3,697,522.
Reif, Werner; Nuerrenbach, Axel; and Freyschlag, Herwig, 3,682,989.
Reinhard, Hans; Petri, Rolf; and Beckerle, Wilhelm-Friedrich, 3,640,912.
Reinhard, Hans; Welzel, Gerhard; Frank, Hans-Ulrich; and Stephan, Rudolf, 3,657,031.
Reuss, Guenter; Engelbach, Heinz; and Haug, Juergen, 3,651,160.
Reuther, Wolfgang; Petersen, Harro; Raff, Paul; and Pommer, Ernst-Heinrich, 3,657,412.
Ricker, Ernst; Schmidt, Franz; and Schwartz, Erich, 3,640,945.
Ruske, Manfred, 3,694,443.
Sander, Bruno; and Sperber, Heinrich, 3,639,630.
Sander, Bruno; Schmidt, Franz; and Sperber, Heinrich, 3,641,196.
Sander, Bruno; and Sperber, Heinrich, 3,644,646.
Sander, Bruno; Sperber, Heinrich; Pommer, Ernst-Heinrich; Clad, Werner; Helmut; and Wittmann, Otto, 3,651,006.

Sanne, Walter; Koenig, Karl-Heinz; Pommer, Ernst-Heinrich; and Stummeyer, Herbert, 3,686,399.
Schaefer, Hans, 3,658,666.
Schaefer, Hans, 3,677,914.
Schaefer, Hans, 3,677,915.
Schecker, Hans-Georg; Koehler, Waldemar; Armbrust, Herbert; Sturm, Hans Juergen; and Kilpper, Gerhard, 3,686,339.
Schenk, Walter; and Pommer, Ernst-Heinrich, 3,642,995.
Scheuermann, Horst; and Seefelder, Matthias, 3,652,636.
Scheuermann, Horst; and Fischer, Adolf, 3,656,932.
Scheuermann, Horst; and Hell, Peter-Matthias, 3,689,481.
Schiedermaier, Richard; Wintersberger, Karl; and Wunsch, Gerd, 3,656,916.
Schindler, Robert; Schmidts, Kurt; and Wiegand, Wolfgang, 3,685,684.
Schlecht, Helmut, 3,661,987.
Schlecht, Helmut; and Aurnhammer, Robert, 3,671,584.
Schlemmer, Lothar; Sabater, Eudaldo; and Kress, Gerhard, 3,652,759.
Schloemer, Karl; Nagel, Otto; Platz, Rolf; and Weitz, Hans Martin, 3,657,374.
Schmid, Hans; Feldhoff, Heinrich; Martin, Wolfgang; Fessmann, Heinz; and Hahn, Edeleried, 3,640,063.
Schmidt, Helmut; and Schuhmacher, Alfred, 3,657,283.
Scholz, Kurt; and Hagenweiler, Kurt, 3,681,277.
Schulz, Gerhard; and Matthias, Guenther, 3,679,739.
Schuster, Ludwig; and Pommer, Horst, 3,658,852.
Seefelder, Matthias; and Mueller, Hans-Richard, 3,660,428.
Sinn, Hansjoerg; Hinck, Helmut; Gruetzmacher, Hans Friedrich; and Bandermaier, Friedhelm, 3,651,112.
Spaenig, Hermann; Steimmig, Anna; and Sand, Jakob, 3,652,581.
Staiger, Gerhard; and Stedefeder, Joachim, 3,639,375.
Steigerwald, Klaus; Buechner, Oskar; Urban, Friedrich; and Pfannmueller, Helmut, 3,657,211.
Steigerwald, Klaus; Buechner, Oskar; Urban, Friedrich; and Pfannmueller, Helmut, 3,657,212.
Steigerwald, Klaus; Buechner, Oskar; Urban, Friedrich; and Pfannmueller, Helmut, 3,702,845.
Stein, Dieter; and Bootz, Ludwig, 3,642,947.
Stephan, Rudolf; Welze, Gerhard; Reinhard, Hans; and Frank, Hans-Ulrich, 3,635,776.
Stoessel, Armin; and Engelbach, Heinz, 3,651,168.
Stuebinger, Adolf; Mueller, Herbert; and Overwien, Hermann, 3,657,376.
Sturm, Hans Juergen; Mayer, Kurt; Kilpper, Gerhard; and Armbrust, Herbert, 3,639,387.
Sturm, Hans Juergen, 3,647,854.
Sturm, Hans Juergen; and Goerth, Helmut, 3,652,571.
Sturm, Hans Juergen; Armbrust, Herbert; Nienburg, Hans; and Eisfeld, Wolfgang, 3,655,741.
Sturm, Hans Juergen; Armbrust, Herbert; Eisert, Manfred; and Schecker, Hans-Georg, 3,658,893.
Sturm, Hans Juergen; and Armbrust, Herbert, 3,682,913.
Sturm, Hans Juergen; and Armbrust, Herbert, 3,651,081.
Sturm, Hans Juergen; and Goerth, Helmut, 3,682,928.
Sturm, Hans Juergen; and Mayer, Kurt, 3,640,996.
Tartter, Arnold; Luebecke, Enno; and Belde, Horst, 3,649,642.
Tartter, Arnold; Riedel, Guenter; and Nold, Eberhard, 3,682,979.
Tavs, Peter, 3,663,729.
Trieschmann, Hans-Georg; Rau, Wolfgang; Mueller-Tamm, Heinz; and Pfannmueller, Helmut, 3,634,382.
Trieschmann, Hans-Georg; Wisseroth, Karl; Scholl, Richard; and Herbeck, Rudolf, 3,639,377.
Trieschmann, Hans-Georg; Rau, Wolfgang; Jacobsen, Theodor; and Pfannmueller, Helmut, 3,652,527.
Trieschmann, Hans-Georg; Pfannmueller, Helmut; Gropper, Hans; Gieth, Volker; and Beck, Gilbert, 3,664,988.
Trieschmann, Hans-Georg; Unterstenhoefer, Leo; and Berbner, Heinz, 3,673,141.
Troeger, Gottfried; Mueller, Gerhart Hermann; Bachmann, Gerhard; Spoor, Herbert; and Batzill, Wolfgang, 3,697,461.
Vollrath, Robert; Nuerrenbach, Axel; and Adolph, Heinrich, 3,673,215.
Von Kutepow, Nikolaus; Magin, August; and Joschek, Hans-Ingo, 3,663,578.
Wegerich, Anton; Arend, Wolfgang; Himmelhan, Emil; and Wittwer, Arnold, 3,657,315.
Widder, Rudi; Distler, Harry; and Haug, Erwin, 3,664,864.
Widder, Rudi; Distler, Harry; and Fuchs, Friedrich, 3,672,978.
Wilhelm, Hans; Hartmann, Heinrich; and Gulbins, Klaus, 3,632,789.
Wilhelm, Hans; Faulhaber, Gerhard; Marx, Matthias; and Hann, Ernst Wilhelm, 3,632,838.
Winterfeldt, Ekkehard, 3,673,211.
Wisseroth, Karl; and Scholl, Richard, 3,655,834.
Wisseroth, Karl; Trieschmann, Hans-Georg; Dodel, Peter; Hoehr, Lothar; Herbeck, Rudolf; and Scholl, Richard, 3,687,917.

Wolf, Herbert; and Goeself, Wilhelm, 3,656,933.
Wuerstlin, Franz; Feichtmayr, Franz; and Eilingsfeld, Heinz, 3,669,888.
Wuerstlin, Franz; and Feichtmayr, Franz, 3,674,695.
Wunsch, Gerd; Schiedermaier, Richard; and Wintersberger, Karl, 3,658,487.
Zeitler, Gerhard; and Trieschmann, Hans-Georg, 3,663,392.
Zschocke, Albrecht; and Fischer, Adolf, 3,632,599.
Zschocke, Albrecht; and Fischer, Adolf, 3,634,445.
Zschocke, Albrecht, 3,668,216.
Zschocke, Albrecht; Rohr, Wolfgang; and Fischer, Adolf, 3,671,540.
Badische Maschinenfabrik GmbH: See—
Becke, Friedrich B., 3,682,236.
Badoux, Daniel; and Carry, Robert. Machine for producing articles from a strip of extruded synthetic material. 3,707,343, 12-26-72, Cl. 425-394.000.
Badovinac, Peter. Posture earrings. 3,703,878, 11-28-72, Cl. 116-67.000.
Badowski, Charles: See—
Dostal, Frank; and Badowski, Charles, 3,700,304.
Badrian, Willy H. J., to Shell Oil Company. Coated fabrics of thermoplastic materials. 3,705,835, 12-12-72, Cl. 161-90.000.
Baechle, Charles H. Power tool accessory. 3,664,614, 5-23-72, Cl. 248-2.000.
Baechle, Hans J.: See—
Sedgwick, Robert K.; Behrendt, Werner K.; and Baechle, Hans J., 3,704,510.
Baechle, Hans J.; and Holtey, James O., to Ingersoll Milling Machine Company, The. Apparatus for transferring and machining workpieces. 3,662,631, 5-16-72, Cl. 82-2.5.
Baechle, Hans Tuisko; and Kohlhaas, Rudolf, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of nitrous oxide. 3,656,899, 4-18-72, Cl. 23-158.
Baecker, Manfred: See—
Waltz, Klaus; Baecker, Manfred; and Quaedvlieg, Mathieu, 3,684,427.
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Baekken, Asbjorn, to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence, mesne. Ship-borne conveying means. 3,640,490, 2-8-72, Cl. 244-116.
Baelde, Arie: See—
van de Water, Johannes Theodorus; Van Hout, Joannes Joseph; and Baelde, Arie, 3,646,409.
Baensch, Ulrich. Fish food holder. 3,664,303, 5-23-72, Cl. 119-51.
Baer, David A., to United States of America, National Aeronautics and Space Administration. Synchronous orbit battery cyclor. 3,663,938, 5-16-72, Cl. 320-48.
Baer, Donald G.: See—
Cope, Kenneth P.; and Baer, Donald G., 3,645,353.
Baer, Herbert J.; Hense, Kurt R.; and Hofferer, Richard, to Filterwerk Mann & Hummel GmbH. Screen filter unit. 3,680,706, 8-1-72, Cl. 210.
Baer, John S., to Warner Electric Brake & Clutch Company. Selectively disengageable helical spring clutch. 3,637,056, 1-25-72, Cl. 192-12.
Baer, John S., to Warner Electric Brake & Clutch Company, mesne. Soft start clutch. 3,642,106, 2-15-72, Cl. 192-70.
Baer, John S.; and Weatherby, John H., to Precision Specialties, Inc. Compressor clutch. 3,685,622, 8-22-72, Cl. 192-35.000.
Baer, Josef, to Bucyrus-Erie Company. Roller lock for digging tooth assembly. 3,650,053, 3-21-72, Cl. 37-142.
Baer, Marvin B.: See—
Helfand, Fredric E.; and Baer, Marvin B., 3,639,728.
Baer, Massimo; and Campbell, Joseph O., to Monsanto Company. Process for the preparation of glass concentrate capsules in a polyvinyl chloride matrix. 3,635,752, 1-18-72, Cl. 117-100.
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Baerresen, Richard B., to Rohr Corporation. Thrust controlling apparatus. 3,684,183, 8-15-72, Cl. 239-265.190.
Baeslack, Gerhard. Electrical wire cutting and stripping tool. 3,686,753, 8-29-72, Cl. 30-90.800.
Baez, Herbert Barclay; and Lightbourne, Robert C. Ore extraction. 3,690,828, 9-12-72, Cl. 423-149.000.
Baeverstad, Harold L.: See—
Fair, Donald G.; Baeverstad, Harold L.; and Fisher, William G., 3,668,653.
Baeza, Armando M., to Mattel, Inc. Jointer figure toy having cooperating bearing surfaces of duplicate size and contours. 3,706,155, 12-19-72, Cl. 46-151.000.
Bafford, Richard A., to Pennwalt Corporation. Process for 1,3,5-tris (α -hydroxyisopropyl) benzene. 3,644,536, 2-22-72, Cl. 260-618.
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Bafza, Armando M.: See—
Sapkus, Jurgis; and Bafza, Armando M., 3,688,435.
Bagai, Satish Kumar; and Topham, Arthur, to Imperial Chemical Industries Limited. Pigment compositions. 3,647,496, 3-7-72, Cl. 106-309.
Baganakis, Peter: See—
De Graff, John E.; Antoniou, Theodore; and Baganakis, Peter, 3,650,664.
Bagdal, Karl T.: See—
Haney, Eugene E.; and Bagdal, Karl T., 3,682,136.
Bagdasar, Florica. Teaching aid kit. 3,654,712, 4-11-72, Cl. 35-73.
Bagdasarov, Khachatur Saakovich: See—
Krylov, Vsevolod Semenovich; Popkov, Ivan Nikolaevich; Magunov, Robert Leonidovich; Puring, Mikhail Nikolaevich; Bagdasarov, Khachatur Saakovich; Tsagina, Raisa Fedorovna; and Popov, Viktor Innokentievich, 3,667,901.
Bagge, George F.: See—
Bagge, Walter; Bagge, George F.; and Hank, Wilbur J., 3,704,897.
Bagge, Leonard P., to Shell Oil Company. Liquid fuel burner. 3,644,076, 2-22-72, Cl. 431-284.
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Bagge, Walter; Bagge, George F.; and Hank, Wilbur J. Combined steering and roll stabilizing means for vehicles. 3,704,897, 12-5-72, Cl. 280-91.000.
Baggett, James C.: See—
McGlothlin, Raymond E.; and Baggett, James C., 3,658,701.
Schultz, Roger L.; Baggett, James C.; and McGlothlin, Raymond E., 3,639,233.
Baggett, Joseph M., to Dow Chemical Company, The. Water-soluble polyalkanolamine resins. 3,655,506, 4-11-72, Cl. 162-164.
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Bagguley, Richard B., to Continental Can Company, Inc. Threaded safety closure. 3,700,133, 10-24-72, Cl. 215-9.000.
Baginski, Albert R.: See—
de Gelder, Jacob; Baginski, Albert R.; and Miller, Anthony D., 3,674,271.
Baginski, Albert R.; Benson, John T.; DeGelder, Jacob; and Marason, Gabriel, Jr., to Mattel, Inc. Noise making toy top. 3,645,037, 2-29-72, Cl. 46-66.
Baginski, Albert R.; De Gelder, Jacob; and Marason, Gabriel, Jr., to Mattel, Inc. Sparking toy top. 3,646,703, 3-7-72, Cl. 46-48.
Baginski, Albert R.; Okada, David T.; and Stastny, Edwin O., to Mattel, Inc. Fluid-pressure operated thrusting and rotating device. 3,695,148, 10-3-72, Cl. 92-92.000.
Baginski, Martin R., to Ashtabula Bow Socket Company. Bicycle pedal having luminous portions thereon. 3,701,291, 10-31-72, Cl. 74-594.400.
Baglai, Vitaly Mikhailovich: See—
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Pentegov, Igor Vladimirovich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; Baglai, Vitaly Mikhailovich; Podola, Nikolai Vasilievich; and Emelyanenko, July Georievich, 3,665,081.
Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Bondarenko, Oleg Petrovich; Latash, Jury Vadimovich; Baglai, Vitaly Mikhailovich; and Shirshov, Vladimir Grigorievich, 3,665,488.
Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Bondarenko, Oleg Petrovich; Latash, Jury Vadimovich; Baglai, Vitaly Mikhailovich; and Shirshov, Vladimir Grigorievich, 3,682,622.

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Lyashenko, Vitaly Petrovich; Kuvaev, Gennady Nikolaevich; and Baglei, Boris Petrovich, 3,633,265.
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Vuillemeier, Ralph O.; and Bagnatori, Giulio B., 3,682,052.
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Berlin, Zalman Leivikovich; Bagrov, Oleg Nikolaevich; Maslovsky, Gennady Vasilievich; Serkov, Anatoly Gavrilovich; and Yakimovich, Viktor Yakovlevich, 3,673,988.
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Brille, Maurice G.; and Baguelin, Yves-Marie E., 3,665,905.
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Callender, Jack E.; Halbedel, Don Edward; Bagwell, Benjamin J.; Horning, James Leroy; Lissakers, Erik Axel; Long, Joseph Harold; and Schweitzer, Cameron C., 3,702,381.
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Silver, David A.; and Bahder, George, 3,651,244.
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Klug, William A.; Habiger, Andrew A.; and Bahl, Leonard J., 3,648,502.
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Hanssen, Ernstgeorg Albert, 3,684,525.
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King, James F., Jr., 3,648,329.
Sloan, Donald A., 3,678,538.
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Januszewski, Joseph Paul; and Bahouth, Tayseer George, 3,641,238.
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Szita, Jenő; Bahr, Ulrich; Marzolph, Herbert; and Nischk, Gunther, 3,666,722.
Thoma, Wilhelm; Oertel, Harald; Rinke, Heinrich; and Bahr, Ulrich, 3,640,937.
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Greten, Berndt; and Mund, Heinrich, 3,645,457.
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Schmitz, Rudolf; and Baier, Franz, 3,684,608.
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Gaines, Erwin B.; and Baigel, Hyman S., 3,691,570.
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Farjon, Raymond; Farce, Jacques; Florent, Jacques; and Dumoulin, Michel, 3,702,314.
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Archer, Sydney; and Bailey, Denis M., 3,692,790.
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- Bailey, Frank W. Blue-flame liquid-fuel burner process, apparatus and utilization systems. 3,652,194, 3-28-72, Cl. 431-9.
- Bailey, Gene R.: See—
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- Bailey, Herbert S., Jr.; and Stewart, Samuel L., to General Electric Company. Nuclear reactor control system. 3,660,230, 5-2-72, Cl. 176-36.
- Bailey, Jack L. Twirling baton. 3,636,811, 1-25-72, Cl. 84-477.
- Bailey, James L.; and Mc Cune, Robert F., to Polaroid Corporation. Microporous vinylidene fluoride polymer and process of making same. 3,642,668, 2-15-72, Cl. 260-2.5.
- Bailey, James L.; and Rodgers, Franklin A., to Polaroid Corporation. Coated silicone rubber mold. 3,671,007, 6-20-72, Cl. 249-114.000.
- Bailey, James R., to Switchcraft, Inc. Push button means. 3,651,700, 3-28-72, Cl. 74-107.
- Bailey, James R., to Switchcraft, Inc. Electrical plug. 3,656,089, 4-11-72, Cl. 339-110.
- Bailey, James R., to Switchcraft, Inc. Pushbutton electrical switch unit. 3,681,552, 8-1-72, Cl. 200-168.00c.
- Bailey, James R.; Corbell, Paul I.; and Korta, Lawrence B., to Johnson Service Company. Intrusion detection apparatus having supervisory control means. 3,697,989, 10-10-72, Cl. 343-5.0pd.
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- Bailey, Jay Richard, to McCulloch Corporation. Muffler with reed valve providing continuous venting. 3,643,759, 2-22-72, Cl. 181-40.
- Bailey, Jennings, Jr., mesne: See—
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- Bailey, John H., to Allied Chemical Corporation. Sulfur extraction. 3,649,217, 3-14-72, Cl. 23-308.
- Bailey, John P.; and Muckelroy, William L., to United States of America, Army. Leadless microminiature inductance element with closed magnetic circuit. 3,691,497, 9-12-72, Cl. 336-192.000.
- Bailey, Joseph, to Eastman Kodak Company. Pyrazolo [3,2-c]-s-triazoles and process for the manufacture thereof. 3,705,896, 12-12-72, Cl. 260-240.00c.
- Bailey, Joseph T., to American Lava Corporation. Ultrapure alumina ceramics formed by coprecipitation. 3,637,406, 1-25-72, Cl. 106-39.
- Bailey, Keith A.; and Marlow, Jerry R., to General Motors Corporation. Transmission with flow controlled lockup clutch. 3,682,043, 8-8-72, Cl. 91-412.000.
- Bailey, Knight V., to Bendix Corporation. The. Automatic coordinate determining device. 3,647,963, 3-7-72, Cl. 178-19.
- Bailey, Loren C., 50% to Thompson, James C. Ladder mounting means for chalk line. 3,675,735, 7-11-72, Cl. 182-129.000.
- Bailey, Marion C.; and Crosswell, William F., to National Aeronautics and Space Administration. Stacked array of omnidirectional antennas. 3,638,224, 1-25-72, Cl. 343-771.
- Bailey, Maurice E.: See—
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- Bailey Meter Company: See—
Cohen, Kenneth W.; and Martin, Thomas E., 3,705,535.
Krechmery, Roger L.; and Seabeck, Lee A., 3,707,675.
Martin, John C.; and Thompson, William L., 3,646,815.
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- Bailey Meters & Controls Limited: See—
Wheeler, Peter John, 3,689,773.
- Bailey, Philip S.: See—
Chang, Yun Ger; and Bailey, Philip S., 3,654,315.
- Bailey, Reginald John: See—
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- Bailey, Richard J., to GTI Corporation. Molded shunts for integrated circuits. 3,648,108, 3-7-72, Cl. 317-2.
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- Bailey, Robert A.; and Michelsen, Arve, to United States of America, Navy. Coruscative shaped charge having improved jet characteristics. 3,675,575, 7-11-72, Cl. 102-24.0hc.
- Bailey, Robert C.; Estes, Harry A.; James, Glen S.; Klug, James R.; Montillon, Henry A.; Myring, Verne E.; Robertson, Orville H.; Sargeant, Blaine W.; and Sorensen, Neal E., to Holden Industries, Inc. Method of making a magazine insert. 3,679,200, 7-25-72, Cl. 270-4.000.
- Bailey, Robert F., to TRW Semiconductors Inc. Semiconductor devices with diffused platinum. 3,640,783, 2-8-72, Cl. 148-186.
- Bailey, Robert J., to Grace, W. R., & Co. Dual image formation on separate supports of photocurable composition. 3,650,746, 3-21-72, Cl. 96-35.1.
- Bailey, Robert S. Enclosed flotation apparatus and process. 3,647,069, 3-7-72, Cl. 210-44.
- Bailey, Roddie F., to United States of America, Navy. Marine mine self protection system. 3,654,888, 4-11-72, Cl. 114-240.
- Bailey, Warren R.: See—
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- Bailey, Wesley T.; and Cummings, Robert, to Purex Corporation, Ltd. Composition for chemical milling maskant. 3,649,584, 3-14-72, Cl. 260-31.2.
- Bailey, William A.: See—
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- Bailey, William B., to Spencer Turbine Company, The. Flow-actuated bleed valve. 3,685,530, 8-22-72, Cl. 137-98.000.
- Bailey, William J.: See—
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- Bailiff, Howard Vance: See—
Howell, Lawrence E.; and Bailiff, Howard Vance, 3,653,927.
- Bailard, Marcel, to Societe Nationale Industrielle Aerospatiale. Tools for plugging in and unplugging subsystems carried on slideways. 3,696,492, 10-10-72, Cl. 29-203.00h.
- Bailleux, Gilles, to Automobiles Peugeot and Regie Nationale des Usines Renault. Rear wheel arrangement having trailing arms for an automobile vehicle. 3,704,029, 11-28-72, Cl. 280-124.00r.
- Baillie, Lloyd A.: See—
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- Baillly, Louis. Hook for hand hooking rugs. 3,701,461, 10-31-72, Cl. 223-102.000.
- Bailly, Roger Gaston, to Societe Anonyme, Societe Minere et Metallurgique de Penanoya. Portable metering charges for low viscosity materials. 3,675,827, 7-11-72, Cl. 222-194.000.
- Bain, Andrew. Electrical conduit coupling means. 3,639,677, 2-1-72, Cl. 174-84.
- Bain, Andrew. Conduit reaming means. 3,667,858, 6-6-72, Cl. 408-229.000.
- Bain, Bruce N. Board game apparatus. 3,638,946, 2-1-72, Cl. 273-134.
- Bain, Douglas G.; and Hartmeyer, James J., to General Motors Corporation. Lamp and switch assembly for the rear compartment of a motor vehicle. 3,692,992, 9-19-72, Cl. 240-2.000.
- Bain, Kenneth Lindsay; and Leonard, Douglas Leslie, to Parkson Corporation. Concentration by continuous flash evaporation. 3,656,534, 4-18-72, Cl. 159-47.
- Bain, Merrill H.; and Bucher, Michael R. Hand glove and light signal attachment therefor. 3,638,011, 1-25-72, Cl. 240-6.4.
- Bain, Orville J.; and Jelinek, Jerry G., to Parker-Hannifin Corporation. Sealed joint and gasket therefor. 3,635,480, 1-18-72, Cl. 277-180.
- Bain, Peter James Stratford; and Mc Call, Ernest Bryson. Secondary alkyl aryl phosphites. 3,694,395, 9-26-72, Cl. 260-29.70p.
- Bain, Thomas William, to Imperial Chemical Industries Limited. Reciprocating fluid motor. 3,682,042, 8-8-72, Cl. 91-3.000.
- Bainbridge, Arnold: See—
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- Baines, Frank Oxley: See—
Jeans, Michael Anthony and; and Baines, Frank Oxley, 3,680,589.
- Bair, Daniel L.: See—
Hindin, Saul G.; Bair, Daniel L.; and Steele, Duane R., 3,666,813.
- Bair, James G., to Fox Grinders, Inc. Apparatus for feeding work to a grinder wheel. 3,648,415, 3-14-72, Cl. 51-215.
- Bair, Thomas I.; and Morgan, Paul W., to Du Pont de Nemours, E. I., and Company. Optically anisotropic spinning dopes of polycarbonamides. 3,673,143, 6-27-72, Cl. 260-30.200.
- Baird Chemical Industries, Inc.: See—
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- Baird, Eugene M.; and Ullman, John G., to Du Pont de Nemours, E. I., and Company. Spinneret assembly. 3,704,971, 12-5-72, Cl. 425-131.000.
- Baird, Jack R.: See—
Gaddy, Oscar L.; Holonyak, Nick, Jr.; Sirkis, Murray D.; and Baird, Jack R., 3,636,255.

- Baird, Leslie L., to General Electric Company. Protective equipment for an alternating current power distribution system. 3,660,721, 5-2-72, Cl. 317-16.
- Baird, Lincoln F. Fluid pressure clamp for prosthetic appliance. 3,671,980, 6-27-72, Cl. 3-20.000.
- Baird, Robert Gordon: See—
Houston, Herbert James; Baird, Robert Gordon; Bolt, Kenneth Dale; and Gretzinger, Adolf, 3,633,858.
- Baird-Atomic, Inc.: See—
Bailerlein, George, 3,633,990.
DiRocco, James V., 3,634,688.
Habosian, Kaspar, 3,650,630.
Ploss, Richard S., 3,644,017.
- Baisod-Atomic, Inc.: See—
Swain, James Bert; and Jeffries, David, 3,689,154.
- Baisupov, Izmail Abdulovich: See—
Vishnitsky, Alexandr Lazarevich; Shapiro, Lev Mironovich; Kantsev, Evgeny Andreevich; Shvartsman, Benjamin Markovich; Shilov, Georgy Petrovich; Nemilov, Evgeny Fedorovich; Baisupov, Izmail Abdulovich; Masterov, Vasily Fomich; and Rumyantsev, Alexandr Steanovich, 3,705,848.
- Baisz, George J.; and Shonka, Francis R.; deceased (by Shonka, Louis M.; administratrix), to United States of America, Atomic Energy Commission. Miniature coaxial cable connector. 3,701,080, 10-24-72, Cl. 339-48.000.
- Baitinger, William Frederick, Jr.: See—
Weyker, Robert George; Baitinger, William Frederick, Jr.; and De Marco, John Gregory, 3,669,609.
- Baitinger, William Frederick, Jr., to American Cyanamid Company. Aliphatic amides as light stabilizers for pigmented polymers. 3,639,333, 2-1-72, Cl. 260-41.
- Bajars, Laimonis: See—
Croce, Louis J.; and Bajars, Laimonis, 3,649,560.
Croce, Louis J.; Bajars, Laimonis; and Gabliks, Maigonis, 3,655,805.
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- Bajek, Walter A.; and McLaughlin, James H., to Universal Oil Products Company. Octane number control of distillation column bottoms by varying heat input. 3,647,634, 3-7-72, Cl. 196-132.
- Bajek, Walter A.; and McLaughlin, James H., to Universal Oil Products Company. Octane number control of distillation column overhead by varying reflux. 3,647,635, 3-7-72, Cl. 196-132.
- Bajek, Walter A.; and McLaughlin, James H., to Universal Oil Products Company. Control of reaction zone severity by response to octane number of effluent liquid phase. 3,649,202, 3-14-72, Cl. 23-253.
- Bajek, Walter A.; and Boyd, David M., Jr., to Universal Oil Products Company. Radioactive radiation-type fluid interface detection system. 3,668,392, 6-6-72, Cl. 250-43.5.
- Bajer Industries Incorporated: See—
Lang, Marshall Ira, 3,685,235.
- Bajo, Ricardo. Decorative party device. 3,702,675, 11-14-72, Cl. 229-7.00r.
- Bajusz, Harold F., to Accutec, Inc. Twist-action retracting mechanism for use in writing instruments. 3,672,783, 6-27-72, Cl. 401-116.000.
- Bak, Aloysius; and Resh, Roy E., to Bendix Corporation, The. Means for measuring the density of fluid in a conduit. 3,688,188, 8-29-72, Cl. 324-58.50c.
- Bakassian, Georges; and Bazouin Andre, to Rhone-Poulenc S.A. Preparation of siloxanes by redistribution. 3,646,088, 2-29-72, Cl. 260-448.2.
- Bakassian, Georges; and Bazouin, Andre, to Rhone-Poulenc S.A. Process for the preparation of bis(triorg anosilyl) actylene. 3,652,625, 3-28-72, Cl. 260-448.2.
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- Bake, Earl A., to Rockwell Manufacturing Company. Valve flow transition. 3,643,914, 2-22-72, Cl. 251-124.
- Bake, Earl A.; Pool, Eldert B.; Hankosky, Andrew; Milleville, Bertram J.; and Fowler, John Hyde, to Rockwell Manufacturing Company. Valve assemblies. 3,685,536, 8-22-72, Cl. 137-338.000.
- Bakel, Joseph F.; and Rogers, George L., to General Electric Company. Numerical control system for providing a constant rate of metal removal. 3,665,170, 5-23-72, Cl. 235-151.11.
- Bakelite Xylonite Limited: See—
Fletcher, Clive R., 3,673,987.
Normanton, James K., 3,645,929.
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Normanton, James K., 3,645,931.
Webster, Joseph George; and Tuck, William Henry, 3,662,057.
- Bakeman, Orville R.; and French, Allen D., to General Electric Company. Laser oscillator construction. 3,675,153, 7-4-72, Cl. 331-94.500.
- Baken, J. A. G., to Du Pont de Nemours, E. I., and Company. Stuffer box crimper lubricating system. 3,662,439, 5-16-72, Cl. 28-1.6.
- Baker, Alan Anthony: See—
Palfreyman, Jack; Middleton, Henry Edward; and Baker, Alan Anthony, 3,632,460.
- Baker, Alan Stuart; and Water, Julian Alfred, to Imperial Chemical Industries Limited. Process for preparing a dispersion of spherical aggregates of amphipathic polymer. 3,661,835, 5-9-72, Cl. 260-34.200.
- Baker, Alan Stuart; and Walbridge, Derek John, to Imperial Chemical Industries Limited. Condensation polymers. 3,669,939, 6-13-72, Cl. 260-78.00a.
- Baker, Alexander; and Vosika, Eugene A., to Integrated Mechanical Systems, Inc. Electronic component handler and tester. 3,655,041, 4-11-72, Cl. 209-81.
- Baker, Alfred Dickens: See—
Sharpe, John William; and Baker, Alfred Dickens, 3,686,704.
- Baker, Alfred Dickens, to Lucas, Joseph, (Industries) Limited. Lighting systems for road vehicles. 3,638,069, 1-25-72, Cl. 315-82.
- Baker, Alfred Dickens, to Lucas, Joseph, (Industries) Limited. Lighting systems for road vehicles. 3,700,878, 10-24-72, Cl. 240-7.11j.
- Baker, Allan, to United Kingdom Atomic Energy Authority. Refuelling means for nuclear reactors. 3,635,792, 1-18-72, Cl. 176-32.
- Baker, Allister L., to Keuffel & Esser Company. Drafting machine scale locking device. 3,638,320, 2-1-72, Cl. 33-79.
- Baker, Allister L., to Keuffel & Esser Company. Portable drafting device. 3,672,062, 6-27-72, Cl. 33-100.000.
- Baker, Basil Offor, to M-O Valve Company Limited, The. Gas discharge device with magnetic means for extinguishing the discharge. 3,636,407, 1-18-72, Cl. 315-344.
- Baker, Bernard James: See—
Martin, Anthony Eugene Joseph; and Baker, Bernard James, 3,660,975.
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- Baker, Bernard S., to Institute of Gas Technology. Storage battery electrolyte. 3,663,295, 5-16-72, Cl. 136-6.
- Baker, Calvin Lee; and Rogers, Clarence H. Vertically adjustable trailer hitch. 3,679,233, 7-25-72, Cl. 280-476.00r.
- Baker Castor Oil Company, The: See—
Smith, Malcolm K., 3,661,782.
- Baker, Charles E., to Texas Instruments, Incorporated. Method and apparatus for displaying coherent light images. 3,650,608, 3-21-72, Cl. 350-320.
- Baker, Charles Edward, II; and Casciotti, Albert, to AMP Incorporated. Multi-contact electrical connector. 3,671,921, 6-20-72, Cl. 339-59.00m.
- Baker, Charles L.: See—
Stone, John Alexander; Lamster, Hal Bernhard; Baker, Charles L.; and Bakiras, Spiro, 3,681,755.
- Baker, Charles P., Jr., to Omark Industries, Inc. Method of lining metallic walled carriers. 3,702,024, 11-7-72, Cl. 29-407.000.
- Baker, Charles W. Optical reflector system. 3,693,515, 9-26-72, Cl. 95-4.50r.
- Baker, Clarence W. Pipe beveling machine. 3,682,455, 8-8-72, Cl. 266-23.0nn.
- Baker, Clifford Aubrey; and Kieff, Morris Charles. Manufacture of concrete pipes. 3,632,270, 1-4-72, Cl. 425-365.
- Baker, Cole: See—
Troll, John; and Baker, Cole, 3,659,950.
- Baker, Cole H.: See—
Geis, James D.; Troll, John H.; Gluz, Harry; and Baker, Cole H., 3,678,729.
- Baker, Crispin Stuart Leworthy; Barnard, Douglas; and Porter, Maurice Read, to Natural Rubber Producers Research Association, The. Vulcanization of rubber. 3,645,980, 2-29-72, Cl. 260-77.5.
- Baker, Cyril F.; and Baker, Florence. Tight rope apparatus. 3,658,325, 4-25-72, Cl. 272-60.
- Baker, David R., to Fibreboard Corporation. Air permeable container. 3,706,410, 12-19-72, Cl. 229-16.00r.
- Baker, Don R.; Fancher, Llewellyn W.; and McClellan, Malcolm B. Biostatic use of substituted phenylsulfonyl-hydroxamines. 3,644,411, 2-22-72, Cl. 424-286.
- Baker, Don R.; Menn, Julius J.; and Freiberg, Ashley H., to Stauffer Chemical Company. Certain 2-benzimidazole alkyl carbamates. 3,658,812, 4-25-72, Cl. 260-240.
- Baker, Don R., to Stauffer Chemical Company. Ethynylene containing N-phenyl carbamates. 3,660,465, 5-2-72, Cl. 260-471.
- Baker, Don R., to Stauffer Chemical Company. Use of certain oxime esters in controlling fungi upon cellulosic materials. 3,660,580, 5-2-72, Cl. 424-327.000.
- Baker, Don R., to Stauffer Chemical Company. Substituted bis(bromoacetoxymethyl)-xylenes. 3,681,439, 8-1-72, Cl. 260-487.000.
- Baker, Don R., to Stauffer Chemical Company. Certain 2-benzimidazole carbamates and their utility. 3,692,783, 9-19-72, Cl. 260-240.00j.
- Baker, Don Robert, to Stauffer Chemical Company. 2,2,3,4,5,5-Hexachloro-2,5-dihydrothiophene 1,1 dioxide and its use. 3,666,773, 5-30-72, Cl. 260-332.100.
- Baker, Donal E., to Westinghouse Electric Corporation. DC power controller with static switching elements and common current feedback transformer between direct voltage source and load. 3,671,844, 6-20-72, Cl. 321-2.000.
- Baker, Donal E., to Westinghouse Electric Corporation. DC static switch circuit with a main switch device and a power sharing circuit portion. 3,697,860, 10-10-72, Cl. 323-9.000.
- Baker, Donald E., to Oakes, E. T., Corporation, The. Mixing apparatus. 3,652,062, 3-28-72, Cl. 259-9.
- Baker, Donald H.; and Kallio, Frank H., to Sperry Rand Corporation. Compass system and components therefor having automatic field cancellation. 3,678,593, 7-25-72, Cl. 33-222.000.
- Baker, Donald H.; and Brickner, David R., to Sperry Rand Corporation. Compass calibrator. 3,683,668, 8-15-72, Cl. 73-1.00c.
- Baker, Donald H.; Brickner, David R.; and Manning, Kenzel P., to Sperry Rand Corporation. Gyromagnetic compass system. 3,691,643, 9-19-72, Cl. 33-222.000.
- Baker, Donald L. Game apparatus including swivelable projector and pivotable targets. 3,647,213, 3-7-72, Cl. 273-101.
- Baker, Donald R.: See—
Dillard, Paul A.; and Baker, Donald R., 3,677,508.
Williamson, Clyde E.; and Baker, Donald R., 3,698,958.
- Baker Drapery Corporation: See—
Baker, George H., Sr., 3,697,035.
- Baker, Edgar Braddbury, to Borden, Inc. Bonding with vinyl acetate polymer modified resorcinol-base adhesive. 3,681,168, 8-1-72, Cl. 156-332.000.
- Baker, Edmond M.: See—
Mellen, Edward J., Jr.; Baker, Edmond M.; and Webb, John M., 3,654,984.
- Baker, Edward C. Detachable power auger assembly. 3,662,844, 5-16-72, Cl. 175-18.000.
- Baker, Elton N., to Fotel, Inc. Graphic aid and methods related thereto. 3,657,983, 4-25-72, Cl. 95-85.
- Baker Equipment Engineering Co., Inc.: See—
Milner, Edwin Earl, Jr., 3,670,849.
- Baker, Eric William. Seed sheets. 3,659,396, 5-2-72, Cl. 53-180.
- Baker, Florence: See—
Baker, Cyril F.; and Baker, Florence, 3,658,325.
- Baker, Frederick A., to Alltrack Vehicles Limited. Protective storage structure for snow-mobles. 3,658,358, 4-25-72, Cl. 280-150.
- Baker, George H., Sr., to Baker Drapery Corporation. Drapery support. 3,697,035, 10-10-72, Cl. 248-260.000.
- Baker, George W. Apparatus for expanding a cylindrical vacuum cooling chamber. 3,640,419, 2-8-72, Cl. 220-5.
- Baker, Gerald E.: See—
Barnett, Eugene J.; and Baker, Gerald E., 3,633,561.
- Baker, Gerald S., to Cameron Iron Works, Inc. Apparatus for controlling well pressure. 3,677,353, 7-18-72, Cl. 175-25.000.
- Baker, Harold L., to Rayette-Faberge, Inc. Method and apparatus for screen molding three-dimensional objects. 3,658,977, 4-25-72, Cl. 264-130.
- Baker, Harry L. Applicator. 3,642,000, 2-15-72, Cl. 128-238.
- Baker, Hayward. Fluid flow transfer device. 3,655,298, 4-11-72, Cl. 417-196.
- Baker, J. T., Chemical Company: See—
Brandt, Marcus K., 3,667,607.
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- Baker, James B.: See—
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- Baker, James G., to Polaroid Corporation. Method and apparatus for generating surfaces of revolution. 3,664,065, 5-23-72, Cl. 51-100.
- Baker, James G., to Polaroid Corporation. Compact folding reflex camera. 3,678,831, 7-25-72, Cl. 95-13.000.
- Baker, James G., to Polaroid Corporation. Schmidt optical system suitable for a panoramic scanning camera including means to compensate for variations in off-axis magnification. 3,679,293, 7-25-72, Cl. 350-184.000.
- Baker, James G., to Polaroid Corporation. Panoramic optical system. 3,689,132, 9-5-72, Cl. 350-189.000.
- Baker, James G., to Polaroid Corporation. Compact four element objective lens. 3,695,750, 10-3-72, Cl. 350-221.000.
- Baker, James Noel: See—
Mitchell, Phillip G.; Hagans, Fredrick S.; Baker, James Noel; and McClendon, Glenn R., 3,646,514.
- Baker, Jerry D.: See—
Barry, Henry F.; Hallada, Calvin J.; and Baker, Jerry D., 3,658,464.
Stuller, Howard E.; and Baker, Jerry D., 3,666,034.
- Baker, John Gordon, to Baker Manufacturing Company. Well cap and seal therefor. 3,645,332, 2-29-72, Cl. 166-75.
- Baker, Joseph S.; Marsan, Mario S.; and Duncan, Robert C., to Procter & Gamble Company, The. Disposable article with moisture-actuated indicating agent. 3,675,654, 7-11-72, Cl. 128-287.000.
- Baker, Joseph W.: See—
Schumacher, Ignatius; and Baker, Joseph W., 3,632,829.
- Baker, Joseph W., to Monsanto Company. N,N-diallyl-3,4-dichlorobenzenesulfonamide. 3,642,892, 2-15-72, Cl. 260-556.
- Baker, Joseph W.; and Bachman, Gerald L., to Monsanto Company. 3(2-sec-Butyl-4,6-dinitrophenoxy)-1,2-benzisothiazole 1,1-dioxide. 3,673,200, 6-27-72, Cl. 260-301.000.
- Baker, Joseph W.; and Howe, Robert K., to Monsanto Company. Anilinomethynemalonitriles. 3,691,227, 9-12-72, Cl. 260-465.00e.
- Baker, Joseph W. Ball valve. 3,697,043, 10-10-72, Cl. 251-315.000.
- Baker, Keith: See—
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- Baker, Lamar T., to General Instrument Corporation, mesne. Chip select circuit for multi-chip random access memory. 3,644,904, 2-22-72, Cl. 340-173.
- Baker, Lamar T., to General Instrument Corporation, mesne. Single device storage cell for read-write memory utilizing complementary field-effect transistors. 3,644,905, 2-22-72, Cl. 340-173.
- Baker, Lamar T., to General Instrument Corporation, mesne. Memory utilizing the non-linear input capacitance of an MOS device. 3,656,119, 4-11-72, Cl. 340-173.
- Baker, Larry W.: See—
Halopoff, William; and Baker, Larry W., 3,683,652.
- Baker Manufacturing Company: See—
Baker, John Gordon, 3,645,332.
- Baker, Martin L., to Optical Coating Laboratory, Inc. Optical monitoring apparatus utilizing fiber optics. 3,636,917, 1-25-72, Cl. 118-9.
- Baker, Marvin Odell. Automatic switch for vent fans in bathrooms. 3,632,953, 1-4-72, Cl. 200-84.
- Baker, Mary Joan H.; and Baker, Robert C. Packet technology. 3,647,305, 3-7-72, Cl. 401-7.
- Baker, Nelson H., Jr.: See—
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Chenoweth, David V.; and Crowe, Talmadge L., 3,648,787.
Cockrell, Darryl W.; and Callihan, Rudy B., 3,678,998.
Conrad, Martin B., 3,633,673.
Curington, Alfred R., 3,692,122.
Dean, Michael R., 3,667,543.
Kammerer, Archer W., Jr.; and Johnson, Gary R., 3,684,041.
Kammerer, Archer W., Jr.; and Johnson, Gary R., 3,703,213.
Salerni, John V., 3,638,724.
Vazquez, Gonzalo; and Salerni, John V., 3,633,668.
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Bourbina, Gerard W., 3,659,717.
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Irving, Henry F., 3,642,406.
Levi, George A., 3,670,665.
Mc Manus, Lynn S., 3,700,121.
McElroy, Larry N.; and Shores, Varo A., 3,666,386.
Miler, Richard W., 3,673,298.
Temple, Hiram E., 3,677,393.
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Hall, Roger Smith, 3,667,143.
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Edwards, Albert, 3,704,743.
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Steels, Gordon, 3,698,309.
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- Baker, Wallace L. Cow controller. 3,685,492, 8-22-72, Cl. 119-27.000.
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- Baker, William J.; and Hurst, Richard J., to Gardner-Denver Company. Conductor wrapping tool. 3,675,861, 7-11-72, Cl. 242-7.170.
- Baker, William W. Cigarette extinguisher receptacle. 3,651,817, 3-28-72, Cl. 131-237.
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Ryss, Jury Samuilovich; Bakhtin, Jury Grigorievich; Pan-teimonov, Vladimir Mikhailovich; and Alexeev, Alexei Il-larionovich, 3,659,192.
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Stone, John Alexander; Lamster, Hal Bernhard; Baker, Charles L.; and Bakiras, Spiro, 3,681,755.
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Roberts, Gwyneth M.; Butt, Faye E.; Baklien, Asbjorn; Gregory, Jocelyn M.; and Kuiper, Jan, 3,658,957.
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Hines, Gordon E.; and Anderson, Ronald W., 3,681,967.
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Van Vleet, John M., 3,656,197.
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- Balchan, Anthony S.; and Cowan, George R., to Du Pont de Nemours, E. I., and Company. Method of treating solids with high dynamic pressure. 3,667,911, 6-6-72, Cl. 23-201.
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Pasin, Z. Joseph, 3,664,963.
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- Baldwin, Arnold V.: See—
Smith, Edward A.; and Baldwin, Arnold V., 3,640,392.
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Bunger, David A., 3,696,200.
Corwin, Merton D.; and Dietrich, Walter E., 3,651,733.
Dietrich, Walter E., 3,685,876.
Huggard, Leslie, 3,697,706.
Jordan, John F.; Breen, John W.; and Mathevorian, Yervand, 3,680,951.
Lampkin, Curt M., 3,688,302.
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Mathevorian, Yervand, 3,670,325.
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Kennedy, Joseph P.; and Baldwin, Francis P., 3,694,377.
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Keller, James R., 3,672,624.
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- Baldwin, William C. Two-speed winch. 3,682,442, 8-8-72, Cl. 254-150.000.
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Kopicko, Walter J., 3,690,805.
Ung, Harry L., 3,637,188.
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Kerr, John, 3,649,088.
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Norman, Harry H., 3,657,749.
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- Balke, Rodney W.; and Kidd, David L., to Textron, Inc. Aircraft vibration compensation system. 3,635,429, 1-18-72, Cl. 244-93.
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- Ball, Brian. Pallets. 3,650,225, 3-21-72, Cl. 108-51.
- Ball Brothers Company Incorporated: See—
Pickard, John E., 3,660,089.
- Scholes, Addison B., 3,687,651.
- Ball Brothers Research Corporation: See—
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- Ball, Charles A. Shelf trim assembly. 3,637,085, 1-25-72, Cl. 211-153.
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- Hurst, Robert L., 3,641,959.
- Jelinek, James W.; Kozlowski, Joseph J.; and Gooding, Jack E., 3,657,640.
- Kibler, Ronald A., 3,648,351.
- McKee, James R.; and Chastain, James K., 3,640,039.
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- Ball, Frank C.; and Knapp, Willard E., to Hydro-Test, Inc. High pressure packing cup. 3,685,544, 8-22-72, Cl. 138-90.000.
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- Ball, James V., to United States of America, Air Force. Cell pressure-sensing battery case. 3,656,340, 4-18-72, Cl. 73-88.5.
- Ball, James V., to Signetics Corporation. Temperature stable integrated oscillator. 3,659,224, 4-25-72, Cl. 331-111.
- Ball, Jeremy T., to Chrysler Corporation. Steering column lock inhibitor. 3,659,443, 5-2-72, Cl. 70-186.
- Ball, John F.; and Beatty, Rex R., to Motorola, Inc. Chip packaging and transporting apparatus. 3,651,957, 3-28-72, Cl. 214-1.
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Gooshev, Constantin, 3,685,094.
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- Ball, Wesley L., to Appliance Manufacturing Company, Inc. Control switch for microwave oven. 3,691,329, 9-12-72, Cl. 200-50.00a.
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- Ballad, Erik Rikhardovich: See—
Rutes, Viktor Savelievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballad, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, Anatoly Ivanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosochenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.
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McKnight, John R.; Ballay, Joseph M.; Fabbro, Lawrence L.; and Alexander, James M., Jr., 3,633,326.
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- Balleis, Peter. Toy tops. 3,678,615, 7-25-72, Cl. 46-68.000.
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- Ballenger, William C., to Central Specialties Co. Cord storage reel assembly. 3,698,656, 10-17-72, Cl. 242-106.000.
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- Ballentine, John W.; and Chaffin, Frank R., to Shamban, W. S., & Co. Lead screw and nut. 3,698,257, 10-17-72, Cl. 74-424.80r.
- Baller, Ernst O.; Crandell, Melvin G.; Pease, Donald L.; and Witinski, Francis D., to Xerox Corporation. Sheet feeding apparatus. 3,674,363, 7-4-72, Cl. 355-14.000.
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- Ballew, Earl. Wood chipper. 3,661,331, 5-9-72, Cl. 241-92.
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- Ballis, William L. Automatic pipeline welding method. 3,668,360, 6-6-72, Cl. 219-61.000.
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- Ballman, Gray C., to Chargematic, Inc. Battery charge programmers. 3,652,916, 3-28-72, Cl. 320-35.
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- Ballou, Richard P., to Physical Electronics Industries, Inc. Solid state window controls. 3,688,173, 8-29-72, Cl. 318-267.000.
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- Ballu, Vincent Pierre Marie, to Tecnomat. Device for spraying treatment products used particularly for farming. 3,674,208, 7-4-72, Cl. 239-77.000.
- Balluff, Robert N., to Tenneco Inc., mesne. Gasoline evaporative emission control. 3,658,042, 4-25-72, Cl. 123-136.
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- Bally Manufacturing Corporation: See—
Lally, Joseph E.; and Tojza, Roman A., 3,642,287.
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Dohan, William L., 3,698,511.
- Balm, Gerald J., to International Business Machines Corporation. Single scan character registration. 3,651,462, 3-21-72, Cl. 340-146.3.
- Balm Paints Limited: See—
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- Balmer, Thomas A.: See—
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- Balmes, Michael J., to Graflex, Inc., mesne. Plastic reinforcing edging for picture receiving screen. 3,640,603, 2-8-72, Cl. 350-124.
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Adams, Ladd M., 3,647,178.
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- Balow, Zella J. Brassieres for mastectomy patients. 3,701,168, 10-31-72, Cl. 3-36.000.
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Desai, Ramesh R.; and Dohn, George D., 3,669,815.
- Balser, Martin: *See—*
Proudian, Andrew Peter; and Balser, Martin, 3,671,927.
- Balske, Robert J.: *See—*
Chupp, John P.; and Balske, Robert J., 3,639,592.
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- Balske, Robert J., to Monsanto Company. Chloro substituted benzyl triphenyl phosphonium halides as anthelmintics. 3,662,065, 5-9-72, Cl. 424-198.
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Farrow, Roger M.; Kimber, Anthony B.; Cole, John Barrington; Miles, John Walter; and Griefiths, Graham Ernest, 3,698,562.
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- Balthis, Joseph H., Jr.; and Gilbert, Walter W., to Du Pont de Nemours, E. I., and Company. Process for the preparation of ferromagnetic chromium oxide by removing water before cooling synthesis mixture. 3,634,030, 1-11-72, Cl. 23-145.
- Balthis, Joseph H., Jr., to Du Pont de Nemours, E. I., and Company. Metal phosphate coated ferromagnetic chromium oxide and its preparation. 3,686,031, 8-22-72, Cl. 117-234.000.
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Engalitcheff, John, Jr., 3,700,110.
- Facijs, Thomas F., 3,659,623.
- Baltimore and Ohio Railroad Company, The: *See—*
Machin, Charles M., Jr.; and Fawcett, John E., 3,651,388.
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Wilson, Paul O., 3,683,756.
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Angeleri, Emanuele; and Balugani, Fabio, 3,659,226.
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- Balve, Robert. Control arrangement for pneumatic hammers. 3,664,233, 5-23-72, Cl. 91-290.
- Balven, Martin H., to Emerson Electric Co. Receptacle. 3,672,531, 6-27-72, Cl. 220-4.00r.
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Balz, Jurgen, 3,703,673.
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Droll, Hans, 3,636,613.
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Seyfried, Richard F.; and Balzer, Norbert R., 3,648,995.
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Kohler, Marcel, 3,644,702.
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Cremer, Erika; and Kraus, Thaddaus, 3,669,881.
Kraus, Thaddaus, 3,683,669.
Vollmer, Helmut, 3,644,655.
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Zycha, Harald, 3,697,153.
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Westmaier, Josef; and Bamberg, Paul, 3,682,006.
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- Bamford, Charles Raymond, to Pilkington Brothers Limited. Treating glass. 3,689,304, 9-5-72, Cl. 117-54.000.
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- Ban, Itsuki. Track selecting apparatus. 3,632,114, 1-4-72, Cl. 274-4.
- Ban, Itsuki. Tape cartridge positioning apparatus. 3,632,115, 1-4-72, Cl. 274-4.
- Ban, Itsuki. Device for automatically adjusting the recording level of a tape recorder employing an endless tape. 3,632,895, 1-4-72, Cl. 179-100.22.
- Ban, Itsuki. Endless magnetic tape playing time indicating apparatus. 3,632,896, 1-4-72, Cl. 179-100.2.
- Ban, Itsuki. Tape cartridge shifting apparatus. 3,632,897, 1-4-72, Cl. 179-100.2.
- Ban, Itsuki. Endless magnetic tape indicator apparatus with automatic index after a tape cycle. 3,632,899, 1-4-72, Cl. 179-100.2.
- Ban, Itsuki. Tape cartridge positioning apparatus. 3,633,920, 1-11-72, Cl. 274-4.
- Ban, Itsuki. Means for moving member such as cartridge and like for magnetic tape cartridge player. 3,633,921, 1-11-72, Cl. 274-48.
- Ban, Itsuki. Tape drive speed changing apparatus. 3,638,952, 2-1-72, Cl. 274-4.
- Ban, Itsuki. Magnetic tape automatic recording apparatus having automatic fade-in and fade-out. 3,647,988, 3-7-72, Cl. 179-100.2.
- Ban, Itsuki. Apparatus for shifting magnetic head in multitrack tape player. 3,649,030, 3-14-72, Cl. 274-4.
- Ban, Itsuki. Control means for moving deck for tape cartridge playing apparatus utilizing plurality of endless magnetic tape cartridges. 3,652,096, 3-28-72, Cl. 274-4.
- Ban, Itsuki. Magnetic tape fast feed control apparatus. 3,661,395, 5-9-72, Cl. 274-4.
- Ban, Itsuki. Apparatus for shifting magnetic head in multi-track tape player. 3,663,022, 5-16-72, Cl. 274-4.
- Ban, Itsuki. Tape player for playing plurality of magnetic tape cartridges. 3,672,683, 6-27-72, Cl. 274-4.00f.

- Ban, Itsuki. Programmed track selecting apparatus. 3,672,686, 6-27-72, Cl. 274-4.00a.
- Ban, Itsuki. Sound control apparatus for a magnetic tape player for cutting off sound from the speaker during fast feed. 3,673,345, 6-27-72, Cl. 179-100.20s.
- Ban, Itsuki. Endless magnetic tape cartridge removing apparatus. 3,677,557, 7-18-72, Cl. 274-4.00b.
- Ban, Itsuki. Tape player for playing a plurality of endless magnetic tape cartridges. 3,682,480, 8-8-72, Cl. 274-4.00f.
- Ban, Itsuki. Tape cartridge positioning apparatus. 3,684,296, 8-15-72, Cl. 274-4.00b.
- Ban, Itsuki. Tape cartridge play control apparatus. 3,684,297, 8-15-72, Cl. 274-4.00b.
- Ban, Itsuki. Tape speed changing apparatus. 3,684,298, 8-15-72, Cl. 274-4.00d.
- Ban, Itsuki. Magnetic tape recording and reproducing apparatus using a small cycle time endless tape with movable head for replay. 3,684,840, 8-15-72, Cl. 179-100.2ca.
- Ban, Itsuki. Tape playing apparatus for use with plurality of endless magnetic tape cartridges. 3,693,981, 9-26-72, Cl. 274-4.00f.
- Ban, Itsuki. Tape drive speed changing apparatus. 3,695,620, 10-3-72, Cl. 274-4.00d.
- Ban, Itsuki. Tape player utilizing plurality of endless magnetic tape cartridges. 3,697,083, 10-10-72, Cl. 274-4.00f.
- Ban, Itsuki. Programmed track selecting apparatus. 3,697,084, 10-10-72, Cl. 274-4.00f.
- Ban, Itsuki. Tape cartridge positioning apparatus. 3,697,085, 10-10-72, Cl. 274-4.00b.
- Ban, Itsuki. Control circuit for multiple tape cartridge playing apparatus. 3,698,722, 10-17-72, Cl. 274-4.00f.
- Ban, Masasi: *See—*
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- Ban, Thomas E., to McDowell-Wellman Engineering Company. Process for conversion of municipal waste. 3,668,077, 6-6-72, Cl. 201-25.000.
- Ban, Yasujiro. Colored recording discs. 3,689,078, 9-5-72, Cl. 274-42.00p.
- Banaitis, Raymond: *See—*
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- Banana Control, Inc.: *See—*
McDonnell, Gerald F.; and Freebairn, Hugh T., 3,683,788.
- Banbury, John R.; and Nixon, William C. Electron probe apparatus using an electrostatic field to cause secondary electrons to diverge. 3,694,652, 9-26-72, Cl. 250-49.50e.
- Banchik, Ira N.; Sze, Morgan C.; and Maddock, Maldwin J., to Lumus Company, The. Reformer furnace. 3,645,701, 2-29-72, Cl. 23-288.
- Bancroft, Charles. Pressure sealing assemblies for rotary vane piston devices. 3,658,447, 4-25-72, Cl. 418-33.
- Bancroft, George H., to Bendix Corporation, The. Apparatus for preparing oxygen from air. 3,687,634, 8-29-72, Cl. 23-281.000.
- Bancroft, George H., to Bendix Corporation, The. Liquid propellant storage tank. 3,695,050, 10-3-72, Cl. 62-45.000.
- Bancroft, James R.; Cleavinger, Richard L.; Hall, James M.; and Harris, Mark, to Ball Brothers Research Corporation. Apparatus and method for sensing radiant energy and determining the position of the source. 3,634,691, 1-11-72, Cl. 250-203.
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Cabello, Charles R., 3,675,286.
Torello-Viera, Eugene, 3,685,109.
- Trifunovic, Alexander L.; and Kase, Charles R., Jr., 3,681,819.
- Trifunovic, Alexander L., 3,707,299.
- Trifunovic, Alexander L.; Hodges, James R.; and Shick, Richard L., 3,641,234.
- Bancroft Racket Company: *See—*
Davis, Tyler B., 3,640,533.
Hollis, James E., 3,674,267.
- Band, Ian T.: *See—*
Bagley, Alan S.; Band, Ian T.; and Hill, Charles M., 3,632,998.
- Band, Ian T., to Hewlett-Packard Company. Gate control apparatus for setting the input signal counting interval. 3,693,097, 9-19-72, Cl. 328-39.000.
- Band-It Company: *See—*
Beardsley, Harold H., 3,641,629.
- Bandage Incorporated: *See—*
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- Bandel, Werner; and Pirot, Ernst, to Bemberg, J. P., Aktiengesellschaft. Apparatus for the continuous treatment of sheet material. 3,687,426, 8-29-72, Cl. 263-3.000.
- Bandelier, Edouard: *See—*
Piquerez, Ervin, 3,683,615.
Piquerez, Ervin, 3,699,767.
- Bandemer, Martin E., to Pearson, Ben, Manufacturing Company. Cotton harvester. 3,651,624, 3-28-72, Cl. 56-28.
- Bandenburg, Daniel J.: *See—*
Kalthoff, Robert J.; Sanborn, Frederic R. G.; and Bandenburg, Daniel J., 3,650,398.
- Bandermann, Friedhelm: *See—*
Sinn, Hansjoerg; Hinck, Helmut; Gruetzmacher, Hans Friedrich; and Bandermann, Friedhelm, 3,651,112.
- Bandimere, John C. Valve spring tester. 3,640,129, 2-8-72, Cl. 73-119.
- Bandle, James M.: *See—*
Fleming, James Evans; Lovell, Clarence A.; and Bandle, James M., 3,665,468.
- Bando Kiko Co., Ltd.: *See—*
Bando, Sigeru, 3,672,734.
- Bando, Sigeru, to Bando Kiko Co., Ltd. Bearing adaptor. 3,672,734, 6-27-72, Cl. 308-26.000.
- Bandurco, Victor T.: *See—*
Elpern, Bill; and Bandurco, Victor T., 3,651,067.
- Bandy, Kenneth L., to Wean Industries, Inc. Polishing of strip metal. 3,645,046, 2-29-72, Cl. 51-5.
- Bandy, Larry L.: *See—*
Ross, Roy C.; and Bandy, Larry L., 3,659,668.
- Bandy, Leon D. Foot propelled unicycle. 3,706,157, 12-19-72, Cl. 46-220.000.
- Bandy, Lyle E.: *See—*
Bitzer, Donald L.; Bandy, Lyle E.; Johnson, Roger L.; and Skaperdas, Dominic O., 3,641,529.
- Bandyopadhyay, Pratip, to Cities Service Oil Company. Method for in situ combustion ignition. 3,672,450, 6-27-72, Cl. 166-260.000.
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- Banes, Nathan M., Jr.; and Bottcher, James H., to Sperry Rand Corporation. Light source. 3,636,395, 1-18-72, Cl. 313-8.
- Banfield, Joseph Henry: *See—*
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- Banford, J. C., Excavators Limited: *See—*
Prime, Derek Arthur, 3,678,605.
- Bang, Mogens W., to Stackpole Carbon Company. Linear motion variable resistor with transverse fine adjustment. 3,648,215, 3-7-72, Cl. 338-122.
- Bang, Mogens W.; and Olson, David A., to Stackpole Carbon Company. Potentiometer adjustable by rotatable drum. 3,670,286, 6-13-72, Cl. 338-180.000.
- Bang, Veron E.: *See—*
Brown, William R.; Bang, Veron E.; and Brown, William R., 3,700,838.
- Bange, Donald A.: *See—*
Donohue, James P.; Bange, Donald A.; and Miyata, John J., 3,653,011.
- Bangerter, Kenneth R., to Ingersoll-Rand Company. Flow sensing valve. 3,648,744, 3-14-72, Cl. 144-32.
- Bangor Punta Operations, Inc.: *See—*
Barker, Maynard C., 3,703,953.
Charron, Dwayne W., 3,662,469.
Hirsch, Roger D., 3,684,043.
Hurd, Stanley E.; and Fong, Leong Q., 3,647,266.
Taccone, Russell W., 3,692,093.
Taccone, Russell W., 3,695,339.
Tudury, Arthur F., 3,681,934.
- Bangs, Leigh B.: *See—*
Huml, James O.; Bangs, Leigh B.; and Layne, Gilbert S., 3,694,156.
- Banholzer, Rolf: *See—*
Zeile, Karl; Schulz, Werner; Banholzer, Rolf; and Wick, Helmut, 3,681,500.
- Baniadam, Mahmood; and Morando, Jorge A., to Fairchild Industries, Inc. Fluid coupling. 3,706,318, 12-19-72, Cl. 137-614.030.
- Banikotes, Gregory C.: *See—*
Meisler, Joseph; Banikotes, Gregory C.; and Van Baush, Edward Harold, 3,691,779.
- Banister, Lionel W. Electrical cord retracting mechanism. 3,705,962, 12-12-72, Cl. 191-12.400.
- Banitt, Elden H.: *See—*
Robertson, Jerry E.; Harrington, Joseph Kenneth; and Banitt, Elden H., 3,639,361.
- Banitt, Elden H., to Minnesota Mining and Manufacturing Company. Cyanoacrylate monomer process. 3,654,340, 4-4-72, Cl. 260-465.4.
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- Banjavich, Mark P.: *See—*
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- Bank, Morris I.: *See—*
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- Bank, Robert, to United Kingdom Atomic Energy Authority. Interlocked assembly of blocks for a nuclear reactor moderating core. 3,660,232, 5-2-72, Cl. 176-84.
- Banker, Bernard R.: *See—*
Voigt, H. William, Jr.; and Banker, Bernard R., 3,705,828.
- Bankert, Richard Dale: *See—*
Torley, Robert Edward; and Bankert, Richard Dale, 3,699,028.
- Banko, Anton, to Surgical Design Corporation. Method for performing surgical procedures on the eye. 3,659,607, 5-2-72, Cl. 128-305.
- Banko, George; and Knuff, William J., to Brown & Sharpe Mfg. Co. Grinding wheel dresser. 3,662,732, 5-16-72, Cl. 125-11.
- Bankovic, Atanasije, to Societe Industrielle Honeywell Bull. Multivibrator circuits. 3,644,844, 2-22-72, Cl. 331-113.
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- Banks, Charles T., to Kimberly-Clark Corporation. Hammermill construction. 3,637,146, 1-25-72, Cl. 241-194.
- Banks, David Dugmore: *See—*
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- Banks, Howard F., to Corning Glass Works. Digital answerback circuit. 3,697,961, 10-10-72, Cl. 340-172.500.
- Banks, James L.: *See—*
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- Banks, Neill K., Jr., to Bomco Incorporated. Process for producing cup-shaped thin-walled metal wares. 3,685,475, 8-22-72, Cl. 113-120.00h.
- Banks, Neill K., Jr.; and Standley, Mark L., to Bomco, Incorporated. Tire rim assembly. 3,698,463, 10-17-72, Cl. 152-379.000.
- Banks, Robert B.: *See—*
Harris, Carl R.; Banks, Robert B.; and Soward, Dallas V., 3,701,279.
- Banks, Robert L., to Phillips Petroleum Company. Conversion of olefins. 3,658,929, 4-25-72, Cl. 260-683.
- Banks, Robert L.; and Kenton, Joseph R., to Phillips Petroleum Company. Conversion of olefins. 3,660,506, 5-2-72, Cl. 260-666.
- Banks, Robert L., to Phillips Petroleum Company. Conversion of olefinic hydrocarbons. 3,663,640, 5-16-72, Cl. 260-680.
- Banks, Robert L., to Phillips Petroleum Company. Isobutene and/or isoamylene from cat poly gasoline. 3,696,163, 10-3-72, Cl. 260-683.00d.
- Banks, Roger: *See—*
Butler, Lawrence W.; and Banks, Roger, 3,637,299.
- Banks, Ronald Eric: *See—*
Haszeldine, Robert Neville; Banks, Ronald Eric; and Taylor, David Robin, 3,658,924.
- Banks, Vincent Pinder: *See—*
Hindle, Thomas; and Banks, Vincent Pinder, 3,680,599.
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- Banks, Willard K., to International Business Machines Corporation. Fusing device and method. 3,666,247, 5-30-72, Cl. 263-6.00c.
- Banks, Willard K., to International Business Machines Corporation. Reflex character generator. 3,666,358, 5-30-72, Cl. 353-25.000.
- Banks, William L., Jr. Rope or cable tie including a hydraulic take-up. 3,658,297, 4-25-72, Cl. 254-51.
- Banks, William P.: *See—*
Harwood, William H.; and Banks, William P., 3,673,067.
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McDonald Edward Harvey; and Banks, William P., 3,640,802.
- Banks, William P.; and Harwood, William H., to Continental Oil Company. Cathodic process for the preparation of tetraalkyl lead compounds. 3,649,481, 3-14-72, Cl. 204-72.
- Bankston, Earl F., to Cabana Theatres, Inc. Theater with separate viewing booths. 3,668,810, 6-13-72, Cl. 52-6.000.
- Bankston, Parker J. Hand exercising and frictional resistant type exercising device. 3,637,205, 1-25-72, Cl. 272-68.
- Bann, Robert Francis, to American Cyanamid Company. Skin cleansing composition. 3,666,690, 5-30-72, Cl. 252-547.000.
- Bannai, Nobuo: *See—*
Ishii, Hajime; Bannai, Nobuo; and Nishita, Sadao, 3,707,592.
- Banner Metals, Inc.: *See—*
Wilson, James D., 3,659,816.
Wilson, James D., 3,677,172.
- Banner Mining Company: *See—*
Brace, Eldred C.; and Green, George E., 3,661,740.
- Banner, Philip M. Emergency fire escape means. 3,692,145, 9-19-72, Cl. 182-70.000.
- Banning, J., Aktiengesellschaft: *See—*
Wieting, Eugen, 3,698,218.
- Banning, Jack A.: *See—*
Tate, John E.; Borenstein, David E.; Langley, Isaac L., Jr.; and Banning, Jack A., 3,684,459.
- Banning, Thomas A., Jr., to Kenney, Frank D.; trustee. CATV TV or subscription television operations. 3,679,813, 7-25-72, Cl. 178-5.100.
- Bannister, Brian, to Upjohn Company. The. Process for converting peracylated cis-glycosyl halides to peracylated trans-glycosyl halides and novel compounds. 3,664,998, 5-23-72, Cl. 260-210.
- Bannister, Brian, to Upjohn Company. The. Lincomycin isothio-
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- Bannister, Brian, to Upjohn Company. The. Derivatives of lincomycin and its analogs and process. 3,702,322, 11-7-72, Cl. 260-210.00r.
- Bannister, Brian; and Magerlein, Barney J., to Upjohn Company, The. Lincomycin analogs and process. 3,705,889, 12-12-72, Cl. 260-210.00r.
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- Bannister, William W.; Pennace, John R.; and Curby, William A. Gelation of liquid hydrocarbons. 3,684,733, 8-15-72, Cl. 252-316.000.
- Banocz, Joseph A. Disposable recessed cigarette tip. 3,646,944, 3-7-72, Cl. 131-187.
- Banocz, Zoltan: *See—*
Pecze, Andras; Suto, Laszlo; and Banocz, Zoltan, 3,651,715.
- Bansal, Parma Nand; and Sonnenmoser, Alois, to Aktiengesellschaft Brown, Boveri & Cie. Water separator-superheater. 3,656,281, 4-18-72, Cl. 55-269.
- Bansal, Suresh A.: *See—*
Pfommer, Fritz; and Bansal, Suresh A., 3,685,630.
- Banse, George, to National Manufacturing Co. Adjustable shelf and rod bracket assembly. 3,702,591, 11-14-72, Cl. 108-31.000.
- Banse, Karlheinz Victor Hermann; Seelig, Wolfgang Hagen; Steinger, Jurg Hugo; and Herziger, Gerd Bernd, to Institut fur Angewandte Physik der Universitat Bern. Gas discharge tube for a laser. 3,705,999, 12-12-72, Cl. 313-197.000.
- Bansen, Kurt. Broach assembly. 3,705,448, 12-12-72, Cl. 29-95.100.
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Tanaka, Tetsuro; and Bansho, Kiyoshi, 3,659,230.
- Bantor, Louis J., to Singer Company, The. Cover for sewing machine bobbin winder. 3,665,875, 5-30-72, Cl. 112-218.00a.
- Bantz, George H.; Faile, John S.; and Peschel, Stanley G., to Hipotronics, Inc. Modular cascaded reversible polarity ultra-high D. C. voltage supply system. 3,643,105, 2-15-72, Cl. 307-110.
- Bantz, Walter J.: *See—*
Cressman, Russell N.; and Bantz, Walter J., 3,631,714.
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- Bantz, Walter J.; and Pittaro, Richard J., to Branson Instruments, Incorporated. Magnetic anomaly detector with means for obtaining different test frequencies. 3,701,941, 10-31-72, Cl. 324-37.000.
- Banush, Russell S.; and Hagerty, Donald P., to Allied Chemical Corporation. Dissolution of metal with acidified hydrogen peroxide solutions. 3,668,131, 6-6-72, Cl. 252-79.400.
- Banyas, John D.; and Wallington, Frederick L., to Owens-Illinois, Inc. Container handling apparatus. 3,637,074, 1-25-72, Cl. 209-74.
- Banzhaf, Donald Howard: *See—*
Baker, William; Worrell, Clyde; and Banzhaf, Donald Howard, 3,698,149.
- Banziger, Walter: *See—*
Cogar, George R.; Sekse, Torkjell; Banziger, Walter; Ming, Joseph W.; and Horvath, Laszlo, 3,666,152.
- Baptist, Colin N. T.: *See—*
Flory, John F.; Baptist, Colin N. T.; Kuhn, Russel C.; and Stracke, Frederick H., 3,641,602.
- Baptista, John L.; Rauner, Frederick J.; and Ford, John A., Jr., to Eastman Kodak Company. Organosilicon polymeric dyes. 3,699,135, 10-17-72, Cl. 260-375.00b.
- Baptista, John L., to Eastman Kodak Company. Novel photographic processing compositions and improved processing using such compositions for preparing silver auxiliary and sound records. 3,705,802, 12-12-72, Cl. 96-4.000.
- Bar Investment Company, Inc.: *See—*
Bowie, John S., 3,640,513.
- Bar Maid Corporation: *See—*
Van Horn, Gilbert N., 3,638,268.
- Bar-Nun, Akiva; Bauer, Simon H.; and Sagan, Carl, to Cornell Research Foundations, Inc. Pressure wave synthesis of aminocarboxylic acids. 3,652,434, 3-28-72, Cl. 204-158.
- Bara, Edward S., to Warwick Electronics Inc. Record changer. 3,671,045, 6-20-72, Cl. 274-10.00r.
- Barabas, Andrew A., to Castro Convertibles Corporation. Convertible table. 3,688,705, 9-5-72, Cl. 108-17.000.
- Barabas, Eugene S.: *See—*
Fein, Marvin M.; and Barabas, Eugene S., 3,637,567.
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- Barabas, Eugene S.; and Grosser, Frederick, to GAF Corporation. Stable aqueous emulsions of graft copolymers. 3,652,481, 3-28-72, Cl. 260-29.6.
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- Barabas, Eugene S.; and Fein, Marvin M., to GAF Corporation. Functional terpolymers of N-vinyl lactams. 3,686,150, 8-22-72, Cl. 260-78.50r.
- Barabas, Eugene S.; and Fein, Marvin M., to GAF Corporation. Stable aqueous emulsions. 3,691,125, 9-12-72, Cl. 260-29.6wb.
- Barabas, John J., to Castro Convertibles Corporation. Hinged-seat platform for sofa-bed. 3,654,642, 4-11-72, Cl. 5-13.
- Barabino, William A., to Safety Research & Engineering Corporation. Tire pressure alarm system. 3,659,264, 4-25-72, Cl. 340-58.
- Barach, Howard J.: *See—*
Marshall, Robert A.; and Barach, Howard J., 3,675,780.
- Baradel, Agostino: *See—*
Balducci, Agostino; Baradel, Agostino; and Massino, Marena, 3,689,473.
- Barainsky, Rudolf F.; Kiefer, Richard; Pankuweit, Hartmut; and Esser, Alfred G., to Deutsche Fibercast GmbH. Centrifugally-cast pipe fittings. 3,642,399, 2-15-72, Cl. 425-117.
- Barajas, Joseph W. Brake. 3,677,376, 7-18-72, Cl. 188-341.000.
- Baral, William J.: *See—*
Mickelson, Grant A.; Jones, Darryl L.; and Baral, William J., 3,706,693.
- Baran, Donald H., to United States Gypsum Company. Wall decorated with panels. 3,681,881, 8-8-72, Cl. 52-29.000.
- Baran, John S.: *See—*
Laos, Ivar; and Baran, John S., 3,657,290.
- Baran, John S.; and Laos, Ivar, to Searle, G. D., & Co. 3-Ox-ygenated 11 β -methyl-4-en-17 β -ol and esters thereof. 3,652,606, 3-28-72, Cl. 260-397.5.
- Baran, John S.; and Laos, Ivar, to Searle, G. D., & Co. 17 α -Alkanyloxy-11 β -methyl-19-norpregna-4, 6-diene-3,20-diones and the 6 α -chloro-19-norpregn-4-ene-3, 20-diones corresponding. 3,682,986, 8-8-72, Cl. 260-397.450.
- Baranauckas, Charles F.: *See—*
Carr, Russell L. K.; and Baranauckas, Charles F., 3,700,695.
Frank, Arlen W.; and Baranauckas, Charles F., 3,678,100.
Frank, Arlen W.; and Baranauckas, Charles F., 3,681,448.
- Baranchikov, Vladimir Mikhailovich: *See—*
Efimov, Leonid Alexandrovich; Shitin, Lev Mikhailovich; Sinit-sky, Vladimir Mikhailovich; Khirdzheiv, Sergei Grigorievich; Pylaikin, Petr Alexeevich; Satovskaya, Ljudmila Sergeevna; Grebnev, Nikolai Feodosovich; Rasseikin, Mikhail Grigorievich; Kalugin, Konsantin Yakovlevich; Somov, Boris Stepanovich; and Baranchikov, Vladimir Mikhailovich, 3,678,728.
- Baranowski, Frank, Jr. Torch handle. 3,679,171, 7-25-72, Cl. 251-148.000.
- Baranowski, Frank, Jr. Fluid flow control valve. 3,698,427, 10-17-72, Cl. 137-542.000.
- Baranowski, Frank, Jr. Calibrated pressure regular. 3,699,998, 10-24-72, Cl. 137-327.000.
- Baranowski, Karl F.; and Barrio, Alexander, Jr., to Omark Industries, Inc. Process for forming a saw chain cutter link. 3,696,692, 10-10-72, Cl. 76-112.000.
- Baranowski, Leslie B., to Keene Corporation. Apparatus for the purification of oils and the like. 3,675,395, 7-11-72, Cl. 55-164.000.
- Baranyi, Anthony J.: *See—*
Connell, Joseph A.; and Baranyi, Anthony J., 3,701,262.
- Baranyi, Jozsef; and Lakatos, Laszlo, to Licencia Talalmanyokat Ertekesito Vallalat. Instrumental method and equipment for the determination of the degree of maturity in fruit, particularly in pomaceous fruit. 3,660,034, 5-2-72, Cl. 23-230.
- Barassi, Carlo; Lugli, Giuseppe; and Mezzanotte, Mario, to Industrie Pirelli S.p.A., mesne. Multi-material breakers in radial tires. 3,656,533, 4-18-72, Cl. 152-361.
- Barassi, Carlo; Lugli, Giuseppe; Mezzanotte, Mario; and Guermandi, Romano, to Industrie Pirelli S.p.A. Radial tire having breaker structure. 3,690,364, 9-12-72, Cl. 152-361.000.
- Baratto, Elia: *See—*
Pomella, Piero; Baratto, Elia; and Lauro, Luciano, 3,696,398.
- Barba, Diego; D'Agostino, Candido; and Liuzzo, Giuseppe. Desalina-tion of sea or brackish water by multi-stage flash evaporation. 3,684,661, 8-15-72, Cl. 202-173.000.
- Barbacsy, Ludwig-Benno; Koerv, Peter; and Mehnert, Walter E., to Messerschmitt-Bolkow-Blohm GmbH. Method of simulating the zero voltage increase by means of measured electrical quantities. 3,684,956, 8-15-72, Cl. 324-107.000.
- Barbagallo, Pasquale: *See—*
Alford, Andrew; and Barbagallo, Pasquale, 3,659,468.
- Barbarin, Jean-Francois; and Beaumatin, Jacques, to Etat Francais. Seal assembly. 3,704,021, 11-28-72, Cl. 277-180.000.
- Barbato, Alexander L.: *See—*
deNora, Vittorio; Meyer, Lewis M.; and Barbato, Alexander L., 3,684,543.
- Barbato, Alexander L.; deceased (by Barbato, Patricia J.; executrix), to Diamond Shamrock Corporation. Float measuring device for mercury cells. 3,705,842, 12-12-72, Cl. 204-99.000.
- Barbato, Alexander Louis; Laub, Henry William; and Loftfield, Richard Eric, to Electrochemical Industries Corporation, mesne. Horizontal mercury cells. 3,689,384, 9-5-72, Cl. 204-99.000.
- Barbato, Patricia J.: *See—*
- Barbato, Alexander L., 3,705,842.
- deNora, Vittorio; Meyer, Lewis M.; and Barbato, Alexander L., 3,684,543.
- Barbeau, Thomas: *See—*
Di Perno, Nicholas; Stiefenhofer, Paul; and Barbeau, Thomas, 3,691,658.
- Barbee, Charles L.; Williams, Harlan D.; and Stracener, James R., to Texas Oil Electric Co. Nurse call and alarm system for nursing homes and the like. 3,668,682, 6-6-72, Cl. 340-286.00r.
- Barbehenn, Herbert S.; and Williams, Robert F., Jr., to Eastman Kodak Company. Laminated amorphous and crystalline polypropylene sheeting. 3,666,585, 5-30-72, Cl. 156-85.000.
- Barbehenn, Herbert S.; Irizarry, James Michael; and Leszyk, Gerald Martin, to Eastman Kodak Company. Photographic paper with polyolefin coating. 3,682,639, 8-8-72, Cl. 96-85.000.
- Barber & Nicholls Limited: *See—*
Grewcock, Sidney B.; and Cooper, Alan A., 3,641,790.
Grewcock, Sidney B.; Cooper, Alan; Amos, Arthur; and Syl-vester, Paul, 3,668,899.
- Barber, Anthony Clifford: *See—*
Woolcock, Alan; and Barber, Anthony Clifford, 3,657,466.
Woolcock, Alan; McDougall, Ian Leich; and Barber, Anthony Clifford, 3,686,750.
- Barber, Edgar A., to Combustion Engineering, Inc. Pneumatic con-veyor and blender. 3,650,436, 3-21-72, Cl. 222-70.
- Barber, Forrest E. Tire condition indicating system. 3,660,816, 5-2-72, Cl. 340-58.
- Barber, Franklin D., to Standard Car Truck Company. Dampened railway truck bolster. 3,687,086, 8-29-72, Cl. 105-197.0db.
- Barber, Harold W.: *See—*
Afdahl, Ronald L.; and Barber, Harold W., 3,676,981.
- Barber, Ivan. Car washing apparatus. 3,691,578, 9-19-72, Cl. 15-21.00d.
- Barber, James: *See—*
Leshner, John C., 3,641,539.
- Barber, James R. Fertilizer distributor. 3,680,741, 8-1-72, Cl. 222-177.000.
- Barber, John A.: *See—*
Nixon, Thomas E.; Barber, John A.; and Nagle, Floyd B., 3,666,699.
- Barber, Joseph J., to Houdaille Industries, Inc. Turret indexing con-trol system. 3,675,107, 7-4-72, Cl. 318-601.000.
- Barber Manufacturing Company: *See—*
Schiffli, Nicholas W., 3,683,712.
- Barber, Michael: *See—*
Green, Brian Noel; and Barber, Michael, 3,689,764.
- Barber, Michael D.: *See—*
Allen, William J.; and Barber, Michael D., 3,675,923.
- Barber, Stephen W.; and Nelson, William F., to Owens-Illinois, Inc. Luminescent device having rare earth doped silica glass lu-minescent material. 3,634,711, 1-11-72, Cl. 313-92.
- Barber, Walter G.: *See—*
Loxley, Ted A.; Webb, John M.; and Barber, Walter G., 3,640,398.
Loxley, Ted A.; Webb, John M.; and Barber, Walter G., 3,652,248.
- Barber, Walter W. Cassette support for camera assembly. 3,693,525, 9-26-72, Cl. 95-31.0ca.
- Barber, Warren A., to Singer Company, The. Circuits for controlling solenoid energization to reduce heating. 3,699,399, 10-17-72, Cl. 317-148.50b.
- Barber, Wayland F. Expandable collar clasp. 3,672,005, 6-27-72, Cl. 24-81.00d.
- Barber, Wayne, to Microwave Development Laboratories, Inc. Method of making waveguide bend. 3,672,202, 6-27-72, Cl. 72-369.
- Barber-Colman Company: *See—*
Clements, Ralph E., 3,633,094.
Davies, Everett H., 3,676,572.
Dilling, George R., 3,677,489.
Finkbner, Roy R., 3,679,490.
Horton, Alfred A., 3,673,479.
Meyers, Elwood J.; and Falk, Earl J., 3,704,077.
Olson, Raymond E.; and Yone, Harold R., 3,696,602.
Peterson, Lawrence M., 3,669,152.
Schach, Albert W., 3,642,093.
Sweger, Russell P., 3,662,241.
Sweger, Russell P., 3,667,539.
Townsend, Franklin L., 3,696,477.
Vaiden, I. Clifford, 3,680,382.
Wiley, William H.; and Johnson, Franklin W., 3,686,485.
- Barber-Greene Company: *See—*
Dediemar, Ronald B.; and Schuman, Leroy J., 3,700,182.
Martenson, Earl D.; and Gebhardt, James J., Jr., 3,678,817.
Martenson, Earl D.; and Ingham, Ray E., 3,691,916.
Smith, Fred T., 3,650,370.
Smith, Fred T., 3,693,512.
Walker, Donald E., 3,680,933.
- Barbera, Anthony J., to National Aeronautics and Space Administra-tion. Use of unilluminated solar cells as shunt diodes for a solar array. 3,672,999, 6-27-72, Cl. 136-89.000.

- Barbera, Melvin A., to Procter & Gamble Company, The. Unsaturated zwitterionic surface active compounds. 3,668,240, 6-6-72, Cl. 260-501.120.
- Barberg, Vernon G. Multi-use, body-relaxing furniture unit. 3,695,684, 10-3-72, Cl. 297-1.000.
- Barberot, Claude: *See—*
Mathieu, Alexis; and Barberot, Claude, 3,644,578.
Mathieu, Alexis; and Barberot, Claude, 3,705,210.
- Barbers Hairstyling for Men, Inc.: *See—*
Barry, James L.; and Mitchell, Terrance R., 3,651,568.
- Barberton, Carl Lieb; and Wiener, Murray, to Babcock & Wilcox Company, The. Vapor generator tube arrangement. 3,665,893, 5-30-72, Cl. 122-6.
- Barbet, Robert Louis. System for the crating of floatable goods. 3,643,400, 2-22-72, Cl. 53-248.
- Barbier, Jean Y., to Intertherm, Inc. Brazed rupture disk assembly. 3,658,206, 4-25-72, Cl. 220-89.00a.
- Barbier, Jean-France Leon Paul; and Renard, Guy, to Eastman Kodak Company. Fogged, direct-positive silver halide emulsion containing nitron. 3,679,424, 7-25-72, Cl. 96-109.000.
- Barbier, Jean-Pierre; and Feugnet, Jean-Pierre, to Bridel, Laiteries E. Installation for production of soft and washed-curd cheeses. 3,672,056, 6-27-72, Cl. 31-49.000.
- Barbier, Maurice, to Societe Nationale des Petroles d'Aquitaine Tour Aquitaine. Process for measuring the sampled amplitude of a seismic signal. 3,698,009, 10-10-72, Cl. 340-155.0cp.
- Barbieri, Louis C. Track laying attachment for a vehicle. 3,689,123, 9-5-72, Cl. 305-29.000.
- Barbin, Robert Lloyd, to RCA Corporation. Toroidal deflection yoke having asymmetrical windings. 3,668,580, 6-6-72, Cl. 335-213.000.
- Barbot, Claude, to Lely, C. van der, N.V. Raking implements. 3,706,191, 12-19-72, Cl. 56-377.000.
- Barbour, Alfred R., to Roessing Bronze Company. Method of recovering metallic brass from the skimmings of a brass melting furnace. 3,669,647, 6-13-72, Cl. 75-76.000.
- Barbour, Richard R.: *See—*
Decker, Harvey David; McGraw, James Edward; and Barbour, Richard R., 3,632,488.
- Barbour, Robert E.: *See—*
Toensing, Eyvand E.; and Barbour, Robert E., 3,634,744.
- Barbul, Marius Aurel: *See—*
Georgescu, Eugenia; Ghejan, Ion; Bucur, Victor; Mazarc, Theodora; Zina, Ion; Popescu, Elena Lygia; Budu, Adrian; Olteanu, Bujor; Filotti, Traian Mircea; and Barbul, Marius Aurel, 3,707,509.
- Barbul, Marius-Aurel: *See—*
Georgescu, Eugenia; Ghejan, Ion; Bugur, Victor; Zina, Ion; Mazarc, Theodora; Popescu, Elena-Lygia; Olteanu, Bujor; Marculescu, Nicolae; Filotti, Traian-Mircea; Barbul, Marius-Aurel; and Calin, Ion, 3,673,109.
- Barch, Fabian P.: *See—*
Daul, George C.; and Barch, Fabian P., 3,632,468.
- Barch, John J., to Tenneco Chemicals, Inc. Fungicidal method and composition containing substituted benzylthiocyanates. 3,639,618, 2-1-72, Cl. 424-302.
- Barchard, Francis M., to Singer Company, The. Automatic dewatering of gas wells. 3,678,997, 7-25-72, Cl. 166-53.000.
- Barcia, Manuel: *See—*
Vazquez, Eugenio A.; and Barcia, Manuel, 3,654,969.
- Barclay, Allan Sangster, to Steel Company of Canada, Limited, The. Ballistic shape punch and screw head socket. 3,640,175, 2-8-72, Cl. 85-45.
- Barclay, John Claire: *See—*
Bach, Frederick Louis; Barclay, John Claire; and Cohen, Elliott, 3,652,590.
- Barclay, John Lynn; Gasson Edward James; and Hadley, David James, to BP Chemicals Limited. Production of unsaturated aliphatic nitriles. 3,681,421, 8-1-72, Cl. 260-465.300.
- Barclay, Kenneth M.: *See—*
Lefrancois, Philip A.; and Barclay, Kenneth M., 3,671,185.
- Barclay, Ralph R., to Minnesota Mining and Manufacturing Company. Dropout compensator for color television. 3,679,814, 7-25-72, Cl. 178-5.4cd.
- Barclay, Robert, Jr.: *See—*
Matzner, Markus; Noshay, Allen; and Barclay, Robert, Jr., 3,701,815.
- Barclay, William F.: *See—*
Schneider, Stephen G.; Hultgren, Frank A.; and Barclay, William F., 3,650,848.
- Barcomb, James G.; and Kozol, Eugene T., to International Business Machines Corporation. Multiple pitch carriage line spacing. 3,643,039, 2-15-72, Cl. 197-133.
- Barcus, Jack L.: *See—*
Porter, Irwin C.; Barcus, Jack L.; Bear, David L.; and Marshall, James E., 3,636,655.
- Barcza, Sandor, to Sandoz-Wander Inc. 17 α -(3'-Hydroxypropynyl)-substituted steroids. 3,636,012, 1-18-72, Cl. 260-397.4.
- Barcza, Sandor, to Sandoz-Wander, Inc. Trialkylsilylmethyl guanidinium salts. 3,636,025, 1-18-72, Cl. 260-448.2.
- Barcza, Sandor, to Sandoz-Wander, Inc. Silylmethyl thiopseudourea salts. 3,637,735, 1-25-72, Cl. 260-309.6.
- Barcza, Sandor, to Sandoz-Wander, Inc. 1-Silanaphthalenes. 3,637,782, 1-25-72, Cl. 260-448.2.
- Barcza, Sandor. Substituted steroids. 3,686,236, 8-22-72, Cl. 260-397.500.
- Barcza, Sandor. Substituted silylmethyl imidazoles. 3,692,798, 9-19-72, Cl. 260-309.000.
- Bard, C. R., Inc.: *See—*
Bohner, Thomas H.; and Vaillancourt, Vincent L., 3,651,615.
Ericson, Richard E., 3,699,964.
- Bard, C. R., Inc., mesne: *See—*
Ericson, Richard E., 3,650,272.
Flores, Mary Alice, 3,665,926.
- Bard, Irving Gary, to Delta Data Systems Corporation. Editing system for video display terminal. 3,675,208, 7-4-72, Cl. 340-172.500.
- Bard, Jackson F. Signal counter. 3,702,904, 11-14-72, Cl. 179-2.00a.
- Bard, John C.; and Olson, Floyd C., to Mayer, Oscar, & Co., Inc. Method of preparing fresh uncured meat products. 3,679,434, 7-25-72, Cl. 99-107.000.
- Bard, Martin. Shelf-supporting standard. 3,679,164, 7-25-72, Cl. 248-243.000.
- Bard-Hamilton Company, Inc.: *See—*
Reed, Jack Owen, 3,688,764.
- Bardahl, Nils, to Siemens Aktiengesellschaft. Device for limiting the power supply upon short-circuit between workpiece and tool in electrolytic metal forming machine. 3,650,940, 3-21-72, Cl. 204-224.
- Barden, Allan D., to Rowe International Inc. Refrigeration system for cold drink machines. 3,681,937, 8-8-72, Cl. 62-340.000.
- Barden Corporation, The: *See—*
Gould, Robert J., 3,685,877.
McKee, Lewis W., 3,647,269.
Schoen, George J.; and McKee, Lewis W., 3,639,017.
Zeneski, Edmund A., 3,674,356.
- Barden, Wayne A.: *See—*
Rozema, Arthur L.; Brady, Lynn J.; and Barden, Wayne A., 3,694,786.
- Barder Corporation, The: *See—*
Geffner, Ted, 3,692,371.
- Bardet, Jean-Claude, to Societe Internationale de Mecanique Industrielle S.A. Shaft racking. 3,643,966, 2-22-72, Cl. 277-80.
- Bardic Systems Limited: *See—*
Barker, John S. N.; and Minter, Ronald H., 3,659,179.
Milward, Gilbert Harold, 3,691,448.
- Bardo, Gerald B., to International Business Machines Corporation. Wire forming machine. 3,638,687, 2-1-72, Cl. 140-71.
- Bardoneschi, Roland: *See—*
Muller, Georges; and Bardoneschi, Roland, 3,676,461.
- Bardos, Andras M. Method and apparatus for inspecting surfaces. 3,695,771, 10-3-72, Cl. 356-210.000.
- Bardos, John J.; and Poplawski, Joel J., to International Harvester Company. Hydraulic brake adjuster and equalizer. 3,699,679, 10-24-72, Cl. 60-54.50e.
- Bardot, Paul, to Societe pour l'Equiptement des Industries Chimiques Speichim. Process and apparatus for drying micro-organisms, in particular edible yeasts. 3,660,908, 5-9-72, Cl. 34-8.000.
- Bardutzky, Klaus, to Schneider, Jos., & Co. Iris diaphragm with extra leaf for complete closure. 3,668,995, 6-13-72, Cl. 95-64.
- Bardwell, Allen E., to Trident Industries, Inc. Composition for and method of substantially reducing pile-up of cuttings on hole bottom in cable drop drilling. 3,637,030, 1-25-72, Cl. 175-66.
- Bardwell, Francis G.; Dobrauz, John W.; and Sobchak, Frank L., to Stewart-Warner Corporation. Scanning head arrangement having servo motor armature secured to shaft on which photocell is carried. 3,704,373, 11-28-72, Cl. 250-202.000.
- Bare, Duward J.; and Penk, Chester S., to Blue M Electric Company. Thermocouple bridge temperature control. 3,632,985, 1-4-72, Cl. 219-499.
- Bare, Howard J. Modular heat exchanger construction. 3,669,185, 6-13-72, Cl. 165-158.000.
- Bare, Thomas M.: *See—*
Suh, John T.; and Bare, Thomas M., 3,700,692.
- Barecki, Chester J., to American Seating Company. Cantilever vehicle driver's seat. 3,632,159, 1-4-72, Cl. 296-63.
- Barecki, Chester J.; and Hozeski, Kenneth W., to American Seating Company. Vehicle chair unit. 3,632,169, 1-4-72, Cl. 297-425.
- Barecki, Chester J., to American Seating Company. Vehicular safety chair. 3,695,689, 10-3-72, Cl. 297-191.000.
- Barecki, Chester J.; and Hozeski, Kenneth W., to American Seating Company. Recliner vehicle seat. 3,695,707, 10-3-72, Cl. 297-460.000.
- Barecki, Chester J.; and Schneider, Kenneth O., to American Seating Company. Connector assembly for chairs. 3,697,130, 10-10-72, Cl. 297-248.000.
- Bareis, Alfred: *See—*
Bergmann, Ewald; and Bareis, Alfred, 3,696,983.

- Barello, Joseph G.; Keller, Donald K.; and Rish, Anthony S., to Chrysler Corporation. Seat back latch. 3,632,168, 1-4-72, Cl. 297-379.
- Barendsen, Pieter: *See—*
Lauber, Ernst Abraham; and Barendsen, Pieter, 3,695,718.
- Barenyi, Bela: *See—*
Wilfert, Karl; and Barenyi, Bela, 3,656,367.
Wilfert, Karl; and Barenyi, Bela, 3,659,476.
Wilfert, Karl; and Barenyi, Bela, 3,697,097.
- Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Safety steering arrangement. 3,641,834, 2-15-72, Cl. 74-492.
- Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Passenger motor vehicle. 3,651,886, 3-28-72, Cl. 180-91.
- Barenyi, Bela; Sacco, Bruno; and Renner, Hermann, to Daimler-Benz Aktiengesellschaft. Safety frame structure for motor vehicles, especially passenger motor vehicles. 3,663,034, 5-16-72, Cl. 280-106.
- Barett, Charles W. Vent for core boxes and the like. 3,631,918, 1-4-72, Cl. 164-410.
- Barfield, C. Verne: *See—*
Crovella, Edward A.; and Barfield, C. Verne, 3,672,353.
- Barfield, William G. System for supplying liquids to potted plants. 3,686,792, 8-29-72, Cl. 47-39.000.
- Barg, Dora A. Paint cases, palette, and conveyor. 3,672,742, 6-27-72, Cl. 312-232.000.
- Bargain, Michel; and Gruffaz, Max, to Rhone-Poulenc S.A. Epoxy resins composition containing a prepolymer of an N, N'-bis-imide and a diamine. 3,637,901, 1-25-72, Cl. 260-830.
- Bargain, Michel; Combet, Andre; and Grosjean, Pierre, to Rhone-Poulenc S.A. Cross-linked resins. 3,658,764, 4-25-72, Cl. 260-78.
- Bargain, Michel, to Rhone-Poulenc S.A. cross-linked polyimides. 3,671,490, 6-20-72, Cl. 260-47.0cp.
- Bargain, Michel; Gruffaz, Max; Laurent, Serge; and Mallet, Maurice, to Rhone-Poulenc S.A. Curable compositions of an unsaturated bis-amide, a diamine, and a multicyclic aromatic compound. 3,679,639, 7-25-72, Cl. 260-78.00u.
- Bargainnier, Roger B.; and Scheithauer, William, Jr., to Sylvania Electric Products, Inc. Process for producing metal powder containing iron and molybdenum. 3,652,746, 3-28-72, Cl. 264-14.
- Barger, Delos R. Grain grinder. 3,638,871, 2-1-72, Cl. 241-255.
- Barger, William R., Jr.: *See—*
Garrett, William D.; and Barger, William R., Jr., 3,676,359.
- Bargman, Dale L., Jr., to Colorado Leisure Products, Inc. Cross drive for lift jack apparatus. 3,640,502, 2-8-72, Cl. 254-45.
- Bargman, Dale L., Jr., to Colorado Leisure Products, Inc. Ratchet-type lift jack unit and lift method for camper bodies and the like. 3,689,029, 9-5-72, Cl. 254-45.000.
- Barh, Alfred: *See—*
Hossmann, Marcell; and Barh, Alfred, 3,698,013.
- Barhorst, Ralph E.: *See—*
Chiasson, Wilbert A.; Barhorst, Ralph E.; and Muter, Bryce A., 3,688,180.
- Barie, Walter P., Jr.; and Franke, Norman W., to Gulf Research & Development Company. Polyepoxide-polyanhydride adhesive composition. 3,637,579, 1-25-72, Cl. 260-41.
- Barie, Walter P., Jr.; and Franke, Norman W., to Gulf Research & Development Company. Monoanhydride olefin-maleic anhydride copolymer polyepoxide casting resins. 3,637,904, 1-25-72, Cl. 260-836.
- Barie, Walter P., Jr., to Gulf Research & Development Company. Polytetraallyl benzophenonetetracarboxylate. 3,655,499, 4-11-72, Cl. 161-88.
- Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., to Gulf Research & Development Company. Liquid stabilizers for vinyl chloride resins. 3,682,853, 8-8-72, Cl. 260-23.0xa.
- Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., to Gulf Research & Development Company. Flame-retardant polyurethane compositions comprising a phosphorous-containing polyol and an aromatic carboxylic acid anhydride. 3,684,748, 8-15-72, Cl. 260-2.5aj.
- Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., to Gulf Research & Development Company. Flame-retarded polyurethane compositions comprising a phosphorous-containing polyol and an aromatic carboxylic acid. 3,684,754, 8-15-72, Cl. 260-2.5at.
- Baril, Albert, Jr.: *See—*
Mayer, Mayer, Jr.; and Baril, Albert, Jr., 3,707,024.
- Barilli, Filippo: *See—*
Cozza, Giorgio; Bottai, Gabriele; and Barilli, Filippo, 3,706,531.
- Baring, John A., to Honeywell, Inc. Multistylus recording head. 3,653,069, 3-28-72, Cl. 346-139.
- Bark, Evert Henry: *See—*
Bylund, Karl Gusten; and Bark, Evert Henry, 3,637,373.
- Barkalow, Clare E.; and Folkert, Ilden R., to Michigan Instruments, Inc. Automatic respirator-inhalation therapy device. 3,662,751, 5-16-72, Cl. 128-145.8.
- Barkan, Philip; and Porter, Joseph W., to General Electric Company. High voltage electric circuit breaker with high speed tripping means. 3,646,292, 2-29-72, Cl. 200-82.
- Barkan, Philip, to General Electric Company. Cooling scheme for a high-current semiconductor device employing electromagnetically-pumped liquid metal for heat and current transfer. 3,654,528, 4-4-72, Cl. 317-234.
- Barkan, Philip; and Skreiner, Klaus M., to General Electric Company. Electric circuit breaker with magnetically assisted closing means. 3,663,906, 5-16-72, Cl. 335-195.
- Barkan, Philip, to General Electric Company. High voltage electric circuit breaker with rapid response tripping means. 3,674,964, 7-4-72, Cl. 200-148.00r.
- Barkas, Emanuel, to Mite Corporation. Portable attendance recorder. 3,683,409, 8-8-72, Cl. 346-91.000.
- Barkdoll, Archie E.; and Sargent, Peter B., to Du Pont de Nemours, E. I., and Company. Halotrifluorocyclopropenes. 3,634,525, 1-11-72, Cl. 260-648.
- Barker, Arthur Frederick; and Nack, Edward John, to Du Pont de Nemours, E. I., and Company. Vessel with stabilizer. 3,638,826, 2-1-72, Cl. 220-69.
- Barker, Carlton D.: *See—*
Mashino, Condon F.; and Barker, Carlton D., 3,648,354.
- Barker, Fred Vester. Animal trap. 3,681,869, 8-8-72, Cl. 43-66.000.
- Barker, Geoffrey Cecil; Gardner, Arthur William; and Pope, Anthony Gerald, to United Kingdom Atomic Energy Authority. Polarograph apparatus. 3,644,824, 2-22-72, Cl. 324-30.
- Barker, George E.: *See—*
Penquite, Charles R.; and Barker, George E., 3,667,914.
- Barker, Gerald C.; and Jarrett, Steven M., to Coherent Radiation Laboratories. Pulsed gas ion laser. 3,646,476, 2-29-72, Cl. 331-94.5.
- Barker, Graham, to Witco Chemical Corporation. Compatible anionic-cationic surfactant compositions. 3,668,136, 6-6-72, Cl. 252-117.000.
- Barker, Graham; and Campbell, Herman W., to Witco Chemical Corporation. Aqueous-based cosmetic detergent compositions. 3,703,481, 11-21-72, Cl. 252-546.000.
- Barker, James, to Cities Service Company. Copper hydrate production. 3,635,668, 1-18-72, Cl. 23-147.
- Barker, James E., to Cities Service Company. Manufacture of alkali metal phosphates. 3,661,513, 5-9-72, Cl. 23-107.
- Barker, James F.: *See—*
Hoppin, George S.; Yount, Reed E.; Berry, Thomas F.; and Barker, James F., 3,632,319.
Hoppin, George S., III; Yount, Reed E.; Berry, Thomas F.; and Barker, James F., 3,692,501.
Hoppin, George S., III; Yount, Reed E.; Berry, Thomas F.; and Barker, James F., 3,700,427.
- Barker, John S. N.; and Minter, Ronald H., to Bardic Systems Limited. Emergency electric lighting units. 3,659,179, 4-25-72, Cl. 320-2.
- Barker, Joseph; and Hanson, Raymond, to USM Corporation. Apparatus for overall sole and heel unit cementing. 3,680,527, 8-1-72, Cl. 118-7.000.
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Andrews, Francis W.; Sussman, Philip S.; and Barlow, Sidney D., 3,678,521.
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Bauer, Karl; Martens, Gerhard; and Schiminski, Herbert, 3,701,873.
- Berges, Dietrich, 3,636,692.
- Busch, Hans Jochen, 3,682,404.
- Heinz, Schippers; and Hensen, Friedhelm, 3,664,795.
- Lenk, Erich; and Krawszik, Theodor, 3,655,314.
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- Steinmetz, Ib; and Barmby, David S., 3,658,689.
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Augustin, Guenter; and Albrecht, Gerd, 3,663,133.
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- Barnard, Dominic Paul Edmund, to Smith Industries Limited. Plural color lamp indicator. 3,643,255, 2-15-72, Cl. 340-381.
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Baker, Crispin Stuart Leworthy; Barnard, Douglas; and Porter, Maurice Read, 3,645,980.
- Barnard, George A., III. Direct charge-rate indicator. 3,673,793, 7-4-72, Cl. 58-152.00r.
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Turner, Donald B.; and Barnes, Albert H., 3,653,506.
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Barnes, Ray A., 3,691,703.
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- Barnes, David A. Locking equipment coupling pin. 3,658,369, 4-25-72, Cl. 287-52.080.
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Ensor, Robert T., 3,631,708.
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Richardson, Edwin A.; and Barnes, Herbert W., 3,701,383.
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Fowler, Elmer, 3,633,906.
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Kliegman, Jonathan M.; and Barnes, Robert K., 3,652,672.
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- Karecki, Marion R.; Chastain George R.; and Barnes, Thomas R., 3,685,690.
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- Barnes, William Geddes: See—
Ramsay, Melvin Murray; and Barnes, William Geddes, 3,694,659.
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Kaspar, Hans H.; and Kirk, Paul F., 3,639,576.
- Barnes-Hind Pharmaceuticals Inc.: See—
Phares, Russell E., Jr., 3,689,673.
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Sturgeon, Robert G., 3,695,280.
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- Barnett, Barry Roger Michael: See—
Seckerson, Clifford Alexander; and Barnett, Barry Roger Michael, 3,631,569.
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Hosterman, Harry L.; Barnett, Charles B.; and Ripley, Clarence A., Jr., 3,692,414.
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Dieterich, Frank L., 3,670,444.
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Wamsley, Robert Alan; Barnett, John Edward; Rose, Kenneth Ralph; and Jones, Gerald Stephan, 3,634,298.
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Bauer, Ronald; Chung, Harold; Barnett, Kenneth W.; Glockner, Peter W.; and Keim, Wilhelm, 3,686,159.
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- Barnett, Morris A.; and Silver, Alexander, to Garrett Corporation, The. Coated fluid bearing foils and fabricating method. 3,677,612, 7-18-72, Cl. 308-5.000.
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Barnett, Elben Ray; and Barnett, Raymond Ray, 3,665,203.
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- Barnett, Richard C.; and Boucher, James D., to General Electric Company. Control means for pressurized gas-fired space heater. 3,667,892, 6-6-72, Cl. 431-31.000.
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Fowler, John H.; and Barnett, Robert D., 3,696,831.
- Barney, Charles Azel, to Ark-Les Switch Corporation. Laminated locking slider multiple circuit pushbutton switch with improved connector for plug-in wires. 3,652,811, 3-28-72, Cl. 200-5.
- Barney, John H.; and Carlson, Franklin B., to Oil Shale Corporation, The. Process for retorting oil shale in the absence of shale ash. 3,691,056, 9-12-72, Cl. 208-11.000.
- Barney, Walter W. Magnetically coded card structure. 3,651,312, 3-21-72, Cl. 235-61.12.
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Teichmuller, Gerhard; Barnikol-Oettler, Kurt; and Hartmann, Werner, 3,671,555.
- Teichmuller, Gerhard; Barnikol-Oettler, Kurt; and Hartmann, Werner, 3,707,489.
- Barnowski, Guilford Henry G., Jr.: See—
Clarke, Gail H., Jr.; and Barnowski, Guilford Henry G., Jr., 3,705,857.
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- Barnthouse, Carl W. Shot blast chamber and impeller liners. 3,660,943, 5-9-72, Cl. 51-9.
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- Barry, Jean Jacques, to Societe d'Etudes et de Vente de Matiers pour la Fabrication et le Faconnage du Carton Ondule. Facility for heating a product in strip. 3,668,786, 6-13-72, Cl. 34-43.
- Barocca, Aldo J.; and Benedict, Ralph H., to Olin Mathieson Chemical Corporation. Support means for fusees. 3,678,856, 7-25-72, Cl. 102-37,400.
- Barochovsky, Antonin; Horacek, Ladislav; Krulik, Zdenek; Snitly, Miloslav; Stancel, Frantisek; and Wilfert, Milos, to Vyzkumny Ustav Bavlarsky. Spinning machine and method. 3,659,410, 5-2-72, Cl. 57-58,890.
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Moos, Alois J.; and Zeitlin, Alexander, 3,635,074.
- Baron, Allen. Particulate cheese-like compositions. 3,635,737, 1-18-72, Cl. 99-140.
- Baron, Frank A.; Benner, Roland G.; and Weinberg, Alan E., to Mallinckrodt Chemical Works. Purification of p-aminophenol. 3,694,508, 9-26-72, Cl. 260-575,000.
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- Baron, Grigory Rakhmievich: See—
Lakiza, Rostislav Ivanovich; Soloviev, Petr Ivanovich; Dukov, Vasily Maximovich; and Baron, Grigory Rakhmievich, 3,662,991.
- Baron, Heinz. Fibre fleece for medical or hygienical purposes. 3,680,561, 8-1-72, Cl. 128-296,000.
- Baron, Henry J. Hydrophilic lens. 3,698,802, 10-17-72, Cl. 351-160,000.
- Baron, Herschel: See—
Schwenk, Arthur; Baron, Herschel; and Jacobs, Herbert V., 3,632,106.
- Baron, Leonard: See—
Stempler, Samuel; Listl, Carl A.; and Baron, Leonard, 3,636,364.
- Baron, Robert R.: See—
Welch, Dean E.; and Baron, Robert R., 3,632,777.
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Welch, Dean E.; and Baron, Robert Richard, 3,689,556.
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- Baror, Antonio C.; and Jasinski, Stephen. Micro adjustable shovels' tripod. 3,703,046, 11-21-72, Cl. 42-94,000.
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Crie, Louis J.; and Barone, Bruno, 3,678,105.
- Barone, Bruno J., to Petro-Tex Chemical Corporation. Oxidation in the presence of saccharides. 3,649,682, 3-14-72, Cl. 260-524.
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- Barone, Frank, Jr.: See—
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- Barone, Michael; and Barone, Frank, Jr. Pelletized animal feed dispenser. 3,659,754, 5-2-72, Cl. 222-368.
- Baronnet, Pierre: See—
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- Baronnet, Pierre; and Katzer, Ernst, to Knorr-Bremse KG. Line coupling connector for railway vehicles. 3,684,106, 8-15-72, Cl. 213-76,000.
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- Barosko, John M., to Tenneco Inc. Venting valve for hydraulic jack. 3,631,877, 1-4-72, Cl. 137-102.
- Barough, Victor; Glenn, Robert; and Rose, Louis, said Rose assor. to Eaton Allen Corporation. Dual purpose hectographic master unit. 3,669,019, 6-13-72, Cl. 101-470,000.
- Barouh, Victor; and Glenn, Robert. Correction material having visual aligning means. 3,704,150, 11-28-72, Cl. 117-2,000.
- Barozier, Jean-Pierre; and Nicco, Adrien, to Ethylene-Plastique. Reaction of ethylene/maleic anhydride statistical copolymers with polyamines. 3,702,782, 11-14-72, Cl. 117-118,000.
- Barozzi, Gian Piero; and Horeschi, Giancarlo, to Citizen Watch Co., Ltd. Setting carriage return mechanism. 3,703,986, 11-28-72, Cl. 235-60,000.
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Berry, Peter John, 3,698,790.
- Ritchie, David S., 3,664,747.
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- Barr, Arthur C. Nursing unit with improved plastic liner. 3,645,414, 2-29-72, Cl. 215-11.
- Barr, Charles R.; Williams, John; and Whitmore, Keith E., to Eastman Kodak Company. Certain mercaptan forming couplers. 3,701,783, 10-31-72, Cl. 260-308,000.
- Barr, David William: See—
Holyoake, Noel Victor; and Barr, David William, 3,677,047.
- Barr, Dennis Arthur; and Rose, John Brewster, to Imperial Chemical Industries Limited. Aromatic polymers from dihalogenobenzenoid compounds and alkali metal hydroxide. 3,634,355, 1-11-72, Cl. 260-49.
- Barr, Irwin R.: See—
Abbott, David D.; and Barr, Irwin R., 3,650,213.
- Barr, Irwin R.; and Schnepfe, Robert W., to AAI Corporation. Directional dispensing grenade with externally open, integrally-formed and internally closed, propellant-charge well and internal frusto-conical material discharge guiding surface. 3,656,435, 4-1-72, Cl. 102-64.
- Barr, Irwin R.; Hayman, Jack H., Jr.; and Wilkening, Harold A., to United States of America, Army, mesne. Inertia actuated cartridge retaining latches. 3,680,240, 8-1-72, Cl. 42-1,000.
- Barr, James: See—
Notley, John Michael; and Barr, James, 3,692,642.
- Barr, John Denzil: See—
Plummer, Dexter Robert; and Barr, John Denzil, 3,634,008.
- Barr, John E., to International Telephone and Telegraph Corporation. Connector clip removal tool. 3,672,024, 6-27-72, Cl. 29-203,000.
- Barr, Kenneth W.: See—
Gamache, Larry D.; Miller, Christopher F.; and Barr, Kenneth W., 3,638,189.
- Barr, Paul N.; and Gambill, Charles C., to General Motors Corporation. Fuel supply system for an internal combustion engine providing voltage compensated cranking. 3,683,871, 8-15-72, Cl. 123-32,000.
- Barr, Robert Alan, to Midland-Ross Corporation. Extruder, or extruder-like melting apparatus. 3,698,541, 10-17-72, Cl. 198-214,000.
- Barr, Robert D. Carrying rack for motorcycle or similar vehicle. 3,675,833, 7-11-72, Cl. 224-29,000.
- Barr, Ruth L. Method of writing for communicating with the visually handicapped and paper therefor. 3,667,139, 6-6-72, Cl. 35-38,000.
- Barr, Ruth L. Playing cards with conventional bas-relief indicia. 3,667,759, 6-6-72, Cl. 273-152,100.
- Barr, William A., to Milwaukee Gear Company. Gear or rack construction. 3,636,791, 1-25-72, Cl. 74-422.
- Barr-Stallfort Company; division of Pittway Corporation: See—
Cunningham, Ernest R., 3,642,037.
- Barra, Donald P. Analog system of music notation. 3,698,277, 10-17-72, Cl. 84-483,000.
- Barragan, Jacques, to Stokvis, R. S., & Fils. Lapping Machine. 3,668,813, 6-13-72, Cl. 51-128,000.
- Barrager, Stephen M.; Bate, Geoffrey; and Smith, Sidney H., to International Business Machines Corporation. Method and apparatus for testing batch fabricated magnetic heads during manufacture utilizing magnetic fields generated by other magnetic heads. 3,76,926, 12-19-72, Cl. 324-34,000.
- Barral, Bernard, to Productions Essemes S.A. Decreasing flexibility aperiodic resilient device for floors, partition walls and like building members. 3,703,793, 11-28-72, Cl. 52-403,000.
- Barrault, Rene Louis; and Weber, Roland Edmond. Installation to produce rapidly a heated fluid. 3,651,790, 3-28-72, Cl. 122-338.
- Barre, Jean-Gabriel; and Diez, Jean-Marie, to Centre Technique du Cuir. Method of manufacturing footwear. 3,663,679, 5-16-72, Cl. 264-244.
- Barre, Lester J. Dual wheel adaptor system. 3,664,709, 5-23-72, Cl. 301-36,000.
- Barre, Marcel Jean Charles, to Societe Sucriere de l'Atlantique (Engineering). Apparatus for extracting soluble substances from plant or vegetable products. 3,632,445, 1-4-72, Cl. 127-3.
- Barrekette, Euval S.; Baskin, Herbert B.; and Kazan, Benjamin, to International Business Machines Corporation. Multi-persistence display arrangement. 3,634,621, 1-11-72, Cl. 178-7,85.
- Barrer, Richard M.; Cole, John F.; and Sticher, Hans, to Air Products and Chemicals, Inc. Crystalline zeolite and method of preparation. 3,663,164, 5-16-72, Cl. 23-112.
- Barrer, Richard M.; and Cole, John F., to Air Products and Chemicals, Inc. Aluminosilicates containing soldalite and/or cancrinite cages encapsulating salts. 3,674,709, 7-4-72, Cl. 252-454,000.
- Barrera, Carlos M.: See—
Stark, Clarence C.; and Barrera, Carlos M., 3,645,352.
- Barrera, Joseph: See—
Hoch, Monroe P.; and Barrera, Joseph, 3,667,071.
- Barrera, Roberto Gonzalez: See—
Rubio, Manuel Jesus, 3,655,385.
- Rubio, Manuel Jesus, 3,672,912.
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- Barrere, Clem A., Jr.; and Caudle, Danny D., to Continental Oil Company. Gas treating process. 3,632,504, 1-4-72, Cl. 208-310.
- Barrere, Clem A., Jr. Adsorption process for recovering desired components from a gas stream. 3,685,256, 8-22-72, Cl. 55-62,000.

- Barrett, Arthur Lee. Direct contact food freezing. 3,701,263, 10-31-72, Cl. 62-63,000.
- Barrett, Arthur M., Jr., to Barrett Electronics Corporation, mesne. Battery support arrangement. 3,704,761, 12-5-72, Cl. 180-68,500.
- Barrett, Arthur Michael; Carter, John; Hull, Roy; Le Count, David James; and Squire, Christopher John, to Imperial Chemical Industries Limited. 1-Carbamoylalkylphenoxy-3-amino-2-propanols. 3,663,607, 5-16-72, Cl. 260-501,17.
- Barrett, Charles E.; and Jacobson, David R., to Dresser Industries, Inc. Temperature sensing assembly. 3,681,990, 8-8-72, Cl. 73-343,000.
- Barrett, Charles W.: See—
Hamby, Clayton B.; Barrett, Charles W.; and Derfer, John M., 3,660,512.
- Barrett, Donald H., to North American Rockwell Corporation. Solid propellant grain igniter. 3,667,396, 6-6-72, Cl. 102-101,000.
- Barrett, Edgar Whitehouse, to Morse, Robert, Corporation, Limited. Drum device printer with type wheels driven by individually removable motors. 3,683,801, 8-15-72, Cl. 101-99,000.
- Barrett, Edmund, to Jenkintown Metal Products, Inc. Motor operated child's swing. 3,667,756, 6-6-72, Cl. 272-86.
- Barrett, Edward George, to Smiths Industries Limited. Weighing apparatus. 3,661,221, 5-9-72, Cl. 177-137.
- Barrett Electronics Corporation, mesne: See—
Barrett, Arthur M., Jr., 3,704,761.
- Barrett, Ernest Charles Henry, to London & Scandinavian Metallurgical Co., Limited. Electro-deposition of nickel. 3,671,409, 6-20-72, Cl. 204-49,000.
- Barrett, George M. Low pollution heat engine. 3,698,184, 10-17-72, Cl. 60-36,000.
- Barrett Haentjens & Co.: See—
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- Barrett, Jack E. J.: See—
Mereen, Donald E.; and Barrett, Jack E. J., 3,675,205.
- Barrett, James H., Jr. Battery plate bridge support. 3,661,646, 5-9-72, Cl. 136-79.
- Barrett, James R., to Fiberglass Structures. Tank venting system. 3,695,010, 10-3-72, Cl. 55-385,000.
- Barrett, John C.; Borden, Howard C.; and Loebner, Egon E., to Hewlett-Packard Company. Hybrid integrated circuit module. 3,701,123, 10-24-72, Cl. 340-173,01s.
- Barrett, John Eric: See—
Jackson, Brian; and Barrett, John Eric, 3,686,588.
- Barrett, Lawrence G., to American Novawood Corporation, The. Apparatus for producing wood-plastic composites. 3,645,231, 2-29-72, Cl. 118-50,1.
- Barrett, Lawrence G., to American Novawood Corporation, The. Knockdown warehouse pallet. 3,654,877, 4-11-72, Cl. 108-56.
- Barrett, Maurice L., Jr. Meter proving system. 3,678,730, 7-25-72, Cl. 73-3,000.
- Barrett, Orvis G. Method and apparatus for releasing game birds as targets. 3,685,491, 8-22-72, Cl. 119-15,600.
- Barrett, Paul Anthony, to Burroughs Wellcome & Co. (U.S.A.) Inc. Method of treating or preventing coccidiosis. 3,674,873, 7-4-72, Cl. 424-250,000.
- Barrett, Robert E.: See—
Meredith, Curtis L.; Barrett, Robert E.; and Bishop, William A., 3,683,050.
- Barrett, Robert E., to Copolymer Rubber & Chemical Corporation. Oil and ozone resistant elastomer blends comprising EPDM rubber. 3,646,168, 2-29-72, Cl. 260-889.
- Barrett, Robert G., to Cablecolor, Inc. Signal balance and control system. 3,688,027, 8-29-72, Cl. 178-6,800.
- Barrett, Robert W.; and Preese, Pat S., to Current Industries, Incorporated. Intruder detector. 3,673,589, 6-27-72, Cl. 340-258,000.
- Barrevecchia, Domenico P. Collapsible portable utility tray stand. 3,703,872, 11-28-72, Cl. 108-111,000.
- Barriball, Richard D.; Farris, William T.; Gross, George F.; and Walters, Charles W., to Larson Industries, Inc. Encapsulated plastic snow ski. 3,635,483, 1-18-72, Cl. 280-11,13.
- Barrick, Billie L.: See—
Barrick, Thomas W., Sr.; and Barrick, Billie L., 3,692,327.
- Barrick, Thomas W., Sr.; and Barrick, Billie L. Passenger embracing safety nets for use with automotive vehicles. 3,692,327, 9-19-72, Cl. 280-150,000.
- Barrier, Alvis L. Artificial plant holder. 3,682,347, 8-8-72, Cl. 220-160,000.
- Barriere, Alain, to Automobiles Peugeot and Regie Nationale des Usines Renault. Support device for a seat, in particular for a vehicle. 3,680,821, 8-1-72, Cl. 248-371,000.
- Barriere, Jacqueline, to Societe dite Courreges Parfums. Coated bottles. 3,663,259, 5-16-72, Cl. 117-37,000.
- Barriger, Forrest C. Corner mountable brackets. 3,692,265, 9-19-72, Cl. 248-222,000.
- Barrilleaux, Robert G.: See—
Binkley, Frederick H., Jr.; Lanier, Eldred S., Jr.; and Barrilleaux, Robert G., 3,680,389.
- Barrineau, Wade H., to Southern Cross Industries, Inc. Merchandise support with hinged shelf. 3,677,203, 7-18-72, Cl. 108-111,000.
- Barrineau, Wade H., III, to Southern Cross Industries, Inc. Adjustable shelves and support therefor. 3,705,654, 12-12-72, Cl. 211-176,000.
- Barringer, Anthony Rene, to Barringer Research Limited. Automatic transform analyzer. 3,634,695, 1-11-72, Cl. 250-219.
- Barringer, George L.: See—
Kern, Thomas W.; Barringer, George L.; Wands, William Ross; Leonard, Charles W.; and Goodman, Gerald W., 3,666,049.
- Barringer Research Limited: See—
Barringer, Anthony Rene, 3,634,695.
- Barringer, William Charles: See—
Sieger, George Madison; Krueger, James Elwood; and Barringer, William Charles, 3,642,991.
- Barrington, Colin Arthur, to Lucas, Joseph, (Industries) Limited. Dicing semi-conductors. 3,632,462, 1-4-72, Cl. 156-345.
- Barrington, Jonathan, to Insul-Fil Manufacturing Company. Water-repellant thermal insulating composition. 3,655,564, 4-11-72, Cl. 252-62.
- Barrio, Alexander, Jr.: See—
Baranowski, Karl F.; and Barrio, Alexander, Jr., 3,696,692.
- Barrios, Cyril A.: See—
Holleman, Robert A.; Huston, Robert F.; and Barrios, Cyril A., 3,660,059.
- Barrios, David Joseph. Golf game with club stoker. 3,695,612, 10-3-72, Cl. 273-87,200.
- Barron, Benjamin. High power audio amplifier system. 3,694,764, 9-26-72, Cl. 330-146,000.
- Barron, Benny G., to North American Rockwell Corporation. Polymeric propellant and liner composition using a trimer acid. 3,649,389, 3-14-72, Cl. 149-19.
- Barron, Benny G., to Dow Chemical Company, The. Process for making a cationic methacrylamide. 3,652,671, 3-28-72, Cl. 260-561.
- Barron, Benny G., to Dow Chemical Company, The. Flocculant. 3,661,868, 5-9-72, Cl. 260-80,3.
- Barron, Benny G., to Dow Chemical Company, The. Stabilized polymer in oil latexes and suspensions. 3,691,124, 9-12-72, Cl. 260-29,6wb.
- Barron, Charles D., to Jackson, Byron, Inc. Liquid cooled clutch. 3,648,814, 3-14-72, Cl. 192-113.
- Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., to Jackson, Byron, Inc. Stabilized load hoist apparatus. 3,648,858, 3-14-72, Cl. 214-14.
- Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., to Jackson, Byron, Inc. Motion compensating hoist. 3,675,900, 7-11-72, Cl. 254-172.
- Barron, Daniel. Sonar range prediction and tactical computer. 3,675,352, 7-11-72, Cl. 40-31,000.
- Barron, Daniel. Variable depth sonar range production computer. 3,681,573, 8-1-72, Cl. 235-88,000.
- Barron, Norman, 5% to Sellers, Wm. Douglas and Brace, George A.; d/b/a Sellers and Brace. Manually controlled automatic information display device. 3,696,395, 10-3-72, Cl. 340-325,000.
- Barron, Richard H.: See—
Rowley, Kermit G.; and Barron, Richard H., 3,647,000.
- Barron, Robert H. Apparatus for making shell molds. 3,664,407, 5-23-72, Cl. 164-165.
- Barron, Roger L.; Kelleher, Kenneth S.; and Vieth, George C., Jr., to Adaptronics, Inc. Self-programming antenna tracking system. 3,680,126, 7-25-72, Cl. 343-117,000.
- Barron, Roger L., to Adaptronics, Inc. Self-organizing control. 3,697,957, 10-10-72, Cl. 340-172,500.
- Barron, Roger L.; and Cleveland, Dixon, to Adaptronics, Inc. Variable-structure automatic control system. 3,701,889, 10-31-72, Cl. 235-150,100.
- Barrow, Marvin A., 1/6% to Byerly, Benjamin F., 1/6% to Watkins, Jack C., 1/12% to Potts, Austin L. and 1/12% to Osburn, Lloyd. Motor vehicle lighting control and extinguishing system. 3,668,628, 6-6-72, Cl. 340-52.
- Barrow, Ralph E.: See—
Roberts, James E.; Miller, Roy L.; Welch, Jay V.; and Barrow, Ralph E., 3,651,934.
- Roberts, James E.; Barrow, Ralph E.; and Dickerson, Robert B., 3,653,496.
- Barrow, Robert B.; and Terkelsen, Bruce E., to United Aircraft Corporation. Method of casting in investment molds having a radiation shield. 3,633,648, 1-11-72, Cl. 164-60.
- Barrow, Robert B.; and Terkelsen, Bruce E., to United Aircraft Corporation. Radiation shield for investment molds. 3,706,338, 12-19-72, Cl. 164-357,000.
- Barrows, Kenneth C., Jr., to Carrier Corporation. Cable tensioning structure for centrifugal compressor control. 3,645,144, 2-29-72, Cl. 74-89,2.
- Barrows, Richard G.; and Ahillen, William G., to Motorola, Inc. Crystal band pass filter circuit. 3,633,134, 1-4-72, Cl. 333-72.
- Barry, Daniel J.; and McNeill, James J. Container. 3,651,974, 3-28-72, Cl. 220-1,5.
- Barry, George H., to United States of America, Navy, mesne. Direction finding antenna system. 3,704,463, 11-28-72, Cl. 343-100,000.

- Barry, Gerald J.: See—
Roberts, William E.; and Barry, Gerald J., 3,679,215.
- Barry, Henry F.; Hallada, Calvin J.; and McConnell, Robert W., to American Metal Climax, Inc. Liquid phase oxidation process. 3,656,888, 4-18-72, Cl. 23-15.
- Barry, Henry F.; Hallada, Calvin J.; and Baker, Jerry D., to American Metal Climax, Inc. Molybdenum oxide refining process. 3,658,464, 4-25-72, Cl. 23-15.
- Barry, James D.; and Boney, William E., III, to United States of America, Air Force. Carbon monoxide laser from helium-air-methane mixture. 3,704,428, 11-28-72, Cl. 331-94.500.
- Barry, James L.; and Mitchell, Terrance R., to Barbers Hairstyling for Men, Inc. Trimming razor. 3,651,568, 3-28-72, Cl. 30-70.
- Barry, John K., to Southco, Inc. Panel fastener with expandable sleeve. 3,673,913, 7-4-72, Cl. 85-70.000.
- Barry, Jude W.: See—
Steele, Roger B.; Katakian, Arthur, Jr.; Scigliano, Joseph J.; and Barry, Jude W., 3,635,869.
- Barry, Leonard D. Unit load hold-down and mounting. 3,677,194, 7-18-72, Cl. 105-368.00b.
- Barry, Richard F.: See—
Rutter, Carlton G.; Barry, Richard F.; and McLennan, Frank J., 3,707,617.
- Barry, Thomas L., to Sylvania Electric Products, Inc. Divalent europium-activated barium-magnesium pyrosilicate. 3,651,363, 3-21-72, Cl. 313-109.
- Barry, Vincent T., to Carrier Corporation. Control circuit for an air conditioning system. 3,695,054, 10-3-72, Cl. 62-115.000.
- Barry, Walter D. Kite parachute unit with automatic ejector. 3,698,671, 10-17-72, Cl. 244-155.00r.
- Barry, Wright, Corporation, mesne: See—
Wassell, George W., 3,673,721.
- Barry-Wehmiller Co.: See—
Shimogaki, Toshio; Suzuki, Saburo; and Shigematsu, Hiroaki, 3,643,780.
- Barry-Wehmiller Company: See—
Babunovic, Momir, 3,650,146.
- Barsby, Charles B. Jet engines. 3,643,438, 2-22-72, Cl. 60-221.
- Barsel, Norman. Stable aminochrome-like compounds resulting from mild oxidation of dopa and reaction with ketonic reagents. 3,660,573, 5-2-72, Cl. 424-232.
- Barsh, Max K.; and Edwards, James N., to Aerojet-General Corporation. Vehicle alerting system. 3,673,560, 6-27-72, Cl. 340-33.
- Barski, Jakier. Cone holder. 3,659,803, 5-2-72, Cl. 242-130.1.
- Barski, Jakier. Pad for a cone. 3,661,343, 5-9-72, Cl. 242-141.000.
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- Barson, Fred; and Lehman, Herbert S., to International Business Machines Corporation. Fabrication of semiconductor devices with cup-shaped regions. 3,667,115, 6-6-72, Cl. 29-571.
- Barstad, Gotfred E. B., to Norwegian Defence Research Establishment. Aircraft landing guidance system using collimated fan shaped radiation beams. 3,665,198, 5-23-72, Cl. 250-106.
- Barstow, Glidden J., to United States of America, Navy. Multi-channel frequency monitor. 3,667,051, 5-30-72, Cl. 325-363.000.
- Barstow, Ormand E., to Dow Chemical Company, The. Valve assembly for injecting a liquid sample into an analyzing instrument. 3,664,194, 5-23-72, Cl. 73-422.
- Bart, Hans U. Fuel pump. 3,680,980, 8-1-72, Cl. 417-253.000.
- Bart Manufacturing Corporation: See—
Bart, Siegfried G., 3,649,477.
- Bart, Ronald K.: See—
Kiovisky, Joseph R.; and Bart, Ronald K., 3,641,095.
- Bart, Siegfried G., to Bart Manufacturing Corporation. Electroplating large cylindrical tanks. 3,649,477, 3-14-72, Cl. 204-26.
- Barta, Cestmir, to Ceskoslovenska akademie ved. Method of preparing single crystals of mercurous chloride. 3,704,103, 11-28-72, Cl. 23-305.000.
- Barta, Franz; and Grupp, Alfred F., to Mayercord Co., The. Web processing apparatus. 3,694,928, 10-3-72, Cl. 34-159.000.
- Bartch, Donald W.: See—
Long, George E., III; Grove, Francis D.; and Bartch, Donald W., 3,635,751.
- Bartch, Donald Walter: See—
Deal, Samuel Broughton; and Bartch, Donald Walter, 3,680,236.
- Deal, Samuel Broughton; and Bartch, Donald Walter, 3,703,401.
- Long, George E., III; and Bartch, Donald Walter, 3,689,312.
- Barte, William B.: See—
Wiese, Joseph A., Jr.; and Barte, William B., 3,648,257.
- Bartee, Charles E.: See—
Emerson, Paul D.; Davis, S. Jack; Oatfield, John C.; Engelman, Fred H.; and Bartee, Charles E., 3,633,632.
- Barteleit, Ulrich; Regenscheit, Walter; Schroder, Helmut; and Wolf, Erich, to Werner & Pfleiderer. Distributor duct with flexible baffle plates. 3,643,585, 2-22-72, Cl. 98-121.
- Bartell, Charles: See—
Milutin, Ivan Cutakovic; Bartell, Charles; and Blum, Alfred, 3,681,105.
- Bartell, Don G.: See—
Aldrich, Paul H.; Bartell, Don G.; and Espy, Herbert H., 3,686,109.
- Bartels, Harold, to Puritan-Bennett Corporation. Respiration system. 3,664,361, 5-23-72, Cl. 137-98.
- Bartels, Herbert D.: See—
Aschberger, Anton A.; and Bartels, Herbert D., 3,654,810.
- Bartels, Herbert D., to Continental Can Company, Inc. Stress relieved container and method of making same. 3,670,921, 6-20-72, Cl. 220-75.000.
- Bartels, Mathijs Willem: See—
Tan, Sing Liong; Bartels, Mathijs Willem; and Degger, Walter Wilhelmus Johannes, 3,665,597.
- Tan, Sing Liong; Bartels, Mathijs Willem; and Degger, Walter Wilhelmus, 3,688,394.
- Bartels, Wilhelm: See—
Bock, Ernst; Majewski, Martin; and Bartels, Wilhelm, 3,653,246.
- Barten, Antonius Martinus, to N.V. Machinefabrik L. Te Strake. Device for preparing a weft. 3,665,974, 5-30-72, Cl. 139-127.000.
- Barten, Antonius Martinus: See—
Vermulen, Geert Jan; and Barten, Antonius Martinus, 3,675,687.
- Barten, Piet Gerard Joseph, to U.S. Philips Corporation. Color cathode ray tube with plural cathodes and three common grids each having same plurality of beam-defining apertures. 3,639,795, 2-1-72, Cl. 313-70.
- Barten, Piet Gerard Joseph, to U.S. Philips Corporation. Plural beam cathode ray tube having boundary-shaped cylindrical electrodes correcting beam aberration. 3,678,316, 7-18-72, Cl. 313-69.00c.
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- Bartens, Bjoern: See—
Bartens, Carl Emil, 3,676,618.
- Bartens, Carl Emil; deceased (by Bartens, Karl E.; and Bartens, Bjoern; heirs), to Kristian Krog Sorensen. Push-button switch. 3,676,618, 7-11-72, Cl. 200-77.000.
- Bartens, Karl E.: See—
Bartens, Carl Emil, 3,676,618.
- Barter, James A.; Eddy, Clifford O.; and Stevens, Henry C., to PPG Industries, Inc. Catalyst composition. 3,642,755, 2-15-72, Cl. 260-92.1.
- Bartera, Ralph E.: See—
Miller, Charles G.; and Bartera, Ralph E., 3,635,537.
- Barth Electronics, Inc.: See—
Barth, Jon E., 3,665,347.
- Barth, Hans; Griess, Wilhelm; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Sagredos, Angelos, to Lever Brothers Company. Detergent compositions with thermo controlled foaming capacity. 3,663,446, 5-16-72, Cl. 252-138.
- Barth, Hans; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Griess, Wilhelm; deceased (by Griess-Tomtschuk, Irene; and by Gordt-Griess, Hanna; legal representatives), to Lever Brothers Company. Detergent composition with thermo-controlled foaming capacity. 3,706,675, 12-19-72, Cl. 252-539.000.
- Barth, Hans-Dieter, to Chemiebau Dr. A. Zieren GmbH & Co. KG. Yields in the preparation of purified phthalic anhydride. 3,681,399, 8-1-72, Cl. 260-346.400.
- Barth, Hubert; and Hauk, Klaus, to Deere & Company. Tractor front end weight assembly. 3,635,493, 1-18-72, Cl. 280-150.
- Barth, Hubert; and Hauk, Klaus, to Deere & Company. Wheel weight assembly for a tractor. 3,644,002, 2-22-72, Cl. 301-41.
- Barth, Jon E., to Barth Electronics, Inc. T-Attenuator or coupling network having an identical characteristic impedance from either end. 3,665,347, 5-23-72, Cl. 333-81.
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Schmidt, Robert O., 3,650,351.
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Robertson, Alan L.; and Rady-Pentek, Arthur A., 3,638,381.
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- Ciko, John D., 3,676,353.
- Damasis, Adolfo, 3,697,483.
- Duvall, Jacques L., 3,705,860.
- Fensch, Walter, 3,689,443.
- Fijal, Walter R., 3,640,997.
- Gahmig, Herbert, 3,661,810.
- Kan, Peter T., 3,645,923.
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- Lozo, William, 3,707,506.
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Shannon, John Louis; and Bashan, Edward R., 3,690,163.
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Harper, Billy Gene; Bashaw, Robert Niles; and Atkins, Bobby Leroy, 3,669,103.
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- Jepsen, Tag L. B., 3,640,382.
- Lufcy, Glenn H., 3,632,360.
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- Basic Packaging Systems, Inc.: See—
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- Basic Vegetable Products Inc.: See—
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- Basile, Raffaele: See—
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- Basile, Salvador Peluso, to Lares Productos Domesticos S.A. Pressure pans. 3,632,014, 1-4-72, Cl. 220-44.
- Basin, Abram Moiseevich: See—
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- Bass, Patrick: See—
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- Bass, Robert Mehew; and Chilman, John Alfred, to Dowty Rotol Limited. Turbine testing apparatus. 3,633,411, 1-11-72, Cl. 73-116.
- Bass, Sidney; Clarke, Charles D.; and Morse, James E., to Mattel, Inc. Electrical doll accessory. 3,664,055, 5-23-72, Cl. 46-45.000.
- Bassani, Ermanno. Panel form with flexible cap holding access box in sealing relationship. 3,680,826, 8-1-72, Cl. 249-91.
- Bassani, Mariano, to Mount Hope Machinery Company. Cloth detwister apparatus. 3,693,336, 9-26-72, Cl. 57-1.0un.
- Bassemir, Robert W.; Carlick, Daniel J.; and Nass, Gerald I., to Sun Chemical Corporation. Radiation-curable ink compositions. 3,661,614, 5-9-72, Cl. 117-38.
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Olsen, Horace W.; and Bassett, Max, 3,645,345.

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Huntzinger, Gerald O.; and Bassett, Norris J., 3,706,089.

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Motz, Carl H.; Tersch, Richard W.; and Bassoff, Arthur B., 3,636,744.

Bast, Bernard J., to Bethlehem Steel Corporation. Method of making foam core sandwich panel. 3,668,031, 6-6-72, Cl. 156-79.

Baste, Jose Puigdomenech: See—
Sanchez, Manuel Rodriguez; and Baste, Jose Puigdomenech, 3,707,271.

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Bastian, James Winslow: See—
Kleszynski, Richard Raymond; and Bastian, James Winslow, 3,694,161.

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Ebnother, Anton; Bastian, Jean-Michel; and Gadient, Fulvio, 3,678,057.

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Van Gassel, Max L. G.; Van Rijs, Pieter A.; and Basting, Willem J., 3,698,430.

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Hameister, Harold L.; and Baszczuk, Andrew R., 3,674,451.

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Walther, Hans J.; and Liepelt, Klaus J., 3,685,650.

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Heinz, Freiwald; and Karl-Heinz, Eggert, 3,705,568.

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Hakka, Leo E.; Bata, George L.; and Hazell, John E., 3,674,439.

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Hujik, Ladislav, 3,682,579.

Joosten, Hendrik, 3,670,698.

Maltby, Frank Vincent, 3,642,973.

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Batchelder, George W.; and Zimmerman, Gilbert A., to Aerojet-General Corporation. Smokeless propellant compositions containing polyester resin. 3,653,993, 4-4-72, Cl. 149-19.

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Batchelder, Rubico, Inc.: See—
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Batcheller, Kent J., to Pollak, Joseph, Corporation. Ratchet apparatus and switch construction. 3,643,044, 2-15-72, Cl. 200-44.

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Batchelor, La Ferena. Load transporting system. 3,658,278, 4-25-72, Cl. 244-33.

Batchelor, Robert L.: See—
Smith, Wayne E.; Batchelor, Robert L.; and Fulk, Kenneth J., 3,694,423.

Batcher, Kenneth E., to Goodyear Aerospace Corporation. Storing and retrieval method. 3,681,781, 8-1-72, Cl. 444-1.000.

Batcho, Andrew David; Berger, Julius; Furlenmeier, Andre; Keller, Oscar; Pecher, Benjamin; Schocher, Arno Johannes; Spiegelberg, Hans; and Vaterlaus, Bruno Peter. Antibiotics and processes for their preparation. 3,706,729, 12-19-72, Cl. 260-210.00r.

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Alstad, John K.; Armitage, John D., Jr.; and Bate, Geoffrey, 3,665,431.

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Bateman, Coates F., to Veeder Industries, Inc. Gasoline station accounting system. 3,701,994, 10-31-72, Cl. 346-43.000.

Bateman, John H., to Ciba-Geigy Corporation. Process for crosslinking polymers containing mercaptan groups. 3,681,299, 8-1-72, Cl. 260-79.000.

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Bateman, Willis: See—
Metcalfe, Arnold; and Bateman, Willis, 3,695,863.

Bates, Charles E.: See—
Burch, Arthur R.; and Bates, Charles E., 3,670,905.

Bates, Charles Edward: See—
Chow, Ken-Tang; Stull, John William; and Bates, Charles Edward, 3,691,390.

Bates, Erwin F., to Universal Instruments Corporation. Method and apparatus for inserting lead components into circuit boards. 3,636,624, 1-25-72, Cl. 29-626.

Bates, Fred R., to Pacific Grinding Wheel Company, Inc. Reinforced grinding wheel. 3,685,215, 8-22-72, Cl. 51-206.0nf.

Bates, Harold M.: See—
Reisner, David B.; Ludwig, Bernard J.; Bates, Harold M.; and Berger, Frank M., 3,684,805.

Bates, Howard E. Temple boots. 3,684,356, 8-15-72, Cl. 351-129.000.

Bates, Howard J., Jr.; and Vujasinovic, Ado, to Stine, Joe, Inc. Wave motion compensating apparatus for use with floating hoisting systems. 3,653,635, 4-4-72, Cl. 254-172.

Bates, John D., to Kimberly-Clark Corporation. Locking arrangement for tube-type applicators for tampons and the like. 3,645,263, 2-29-72, Cl. 128-263.

Bates, John D.; and Olson, Virginia A., to Kimberly-Clark Corporation. Catamenial tampon and wrapper therefor. 3,674,029, 7-4-72, Cl. 128-285.000.

Bates, John Richard, to Imperial Chemical Industries Limited. Production of variable denier yarns of synthetic polymers. 3,662,055, 5-9-72, Cl. 264-167.000.

Bates, Leonard E., to Cardic Machine Products, Inc. Rug cleaning machine. 3,654,662, 4-11-72, Cl. 15-302.

Bates, Marcus L. Method of feeding and watering animals. 3,672,333, 6-27-72, Cl. 119-51.500.

Bates, Ralston Everett: See—
Wood, Arthur Eastman; Marvin, Ralph Edward; and Bates, Ralston Everett, 3,656,073.

Bates, Reginald A., to Pass & Seymour, Inc. Wire operated remote control system. 3,700,972, 10-24-72, Cl. 317-137.000.

Bates, Richard L.: See—
Eisenman, Wesley L.; Arrington, Douglas C.; Bates, Richard L.; Merriam, James D.; and Stierwalt, Donald L., 3,660,659.

Bates, William: See—
Moyle, Henry Dinwoodey, Jr.; and Bates, William, 3,664,328.

Batesky, Donald C.: See—
Webb, Richard V.; and Batesky, Donald C., 3,674,805.

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Bateson, Norman E.; and Pringle, William L., to Pullman Incorporated. Cargo handling and transportation system. 3,677,192, 7-18-72, Cl. 105-368.00r.

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Relly, Robert H.; Winburn, Charles F.; and Sun, Herbert K. Y., 3,657,764.

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Hillenbrand, George C., 3,633,861.

Batey, Robert William, to International Telephone and Telegraph Corporation. Fast setting marshmallow type confection. 3,684,528, 8-15-72, Cl. 99-134.00a.

Bath, Duncan Thomas, to Canadian General Electric Company Limited. Large generator protective relaying scheme. 3,675,080, 7-4-72, Cl. 317-13.00r.

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Morse-Brown, Austin G., 3,679,260.

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Bathellier, Andre; and Faudot, Gerard. Bank of mixer settlers. 3,692,494, 9-19-72, Cl. 23-270.500.

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Bathgate, Robert J., to Sun Oil Company. Compact bale comprising 1-15 parts by weight bitumen and 85-99 parts by weight of shredded municipal refuse. 3,654,048, 4-4-72, Cl. 161-7.

Bathla, Pritam S.; and Simmons, Carl E., to United Aircraft Products, Inc. Remote accumulator charge indicator. 3,677,334, 7-18-72, Cl. 165-11.000.

Batigne, Daniel; Boichard, Jacques; Gay, Michel; and Janin, Raymond, to Rhone-Poulenc S.A. Process for the preparation of bis-isoxazoline. 3,639,416, 2-1-72, Cl. 260-307.

Batista, Roy I.: See—
Hagan, Melvin A.; and Batista, Roy I., 3,706,539.

Batista, Roy I., to TRW Inc. Diffusion bonding process. 3,703,032, 11-21-72, Cl. 29-493.500.

Batistelli, Nello. Sawdust deflector for portable saw. 3,662,796, 5-16-72, Cl. 143-159.00h.

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Girard, Rene Fernand Victor; and Baton, Hubert Lucien Louis, 3,682,604.

Batsch, Guy Jean, to Societe Civile Textile Dite Socitex. Heating elements for heat-treating threads. 3,666,008, 5-30-72, Cl. 165-177.000.

Batsch, Helmut: See—
Dickopp, Gerhard; Batsch, Helmut; and Schuller, Eduard, 3,654,401.

Batscha, Alexander P., to General Electric Company. Composite cycle turbomachinery. 3,677,012, 7-18-72, Cl. 60-262.000.

Batson, Davis M., to Ethyl Corporation. Polymerically thickened incendiary compositions containing aluminum compounds. 3,634,156, 1-11-72, Cl. 149-87.

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Batson, Dossie M., to Logging Systems, Inc., mesne. Side transfer apparatus. 3,650,422, 3-21-72, Cl. 214-146.5.

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Batt, Robert S., to Torrington Company Limited, The. Rolling bearings. 3,700,299, 10-24-72, Cl. 308-212.000.

Batta, Louis Bela, to Union Carbide Corporation. Selective adsorption gas separation process. 3,636,679, 1-25-72, Cl. 55-26.

Battaerd, Hendrik A. J.: See—
Tregear, Geoffrey W.; Battaerd, Hendrik A. J.; Lang, Gunter A.; Catt, Kevin; and Niall, Hugh D., 3,700,609.

Battelle Development Corporation: See—
Radke, Lawrence F.; and Hobbs, Peter V., 3,671,128.

Battelle Development Corporation, mesne: See—
Cameron, Eric C., 3,632,336.

Lewis, Robert W., 3,677,616.

Noll, Kenneth E., 3,633,405.

Pederson, Arthur M., 3,675,484.

Tenckhoff, Heinrich A. M., 3,653,388.

Upatnieks, Juris, 3,677,617.

Battelle Development Corporation, The: See—
Bol, Jan; Buttner, Hildegard; and Kuhn, Peter, 3,677,966.

Creameans, George E., 3,679,738.

Esslinger, Paul; and Walzling, Rudolf, 3,662,811.

Gripshover, Paul J.; Boyer, Charles B.; and Harth, George H., III, 3,633,264.

Haines, Kenneth A., 3,639,032.

Haines, Kenneth A., 3,639,033.

Hinshaw, John W., 3,672,201.

Javet, Alain, 3,640,330.

Johnson, Harry T., 3,640,651.

Mc Intire, Hoy C.; and Vanorsdel, John R., 3,671,228.

McCurdy, Hugh R.; Rausch, Doyle W.; and McIntire, Hoy O., 3,677,749.

Mirick, William M., 3,674,729.

Mitchell, Robert K., 3,672,796.

Sagmuller, Joseph R.; and Hunter, Richard I., 3,672,882.

Widman, Michael U., 3,664,781.

Battelle Development Corporation, The, mesne: See—
Brender, Ronald F.; and Foy, John L., Jr., 3,638,195.

Charlson, Robert J.; and Ahlquist, Norman C., 3,700,333.

Harris, Roy M., 3,683,892.

Johnson, Curtis C., 3,674,008.

Pao, Yoh-Han, 3,666,351.

Pilat, Michael J., 3,693,457.

Randolph, Alan D.; and Crawford, Rufus W., 3,695,932.

Tenckhoff, Heinrich A. M.; and Shilipetar, George, 3,685,680.

Battelle Memorial Institute: See—
Abbott, William H., 3,661,569.

Beccu, Klaus, 3,669,745.

Corbaz, Andre, 3,648,929.

Genequand, Pierre, 3,705,144.

Hed, Aharon Zeev; and Freud, Paul J., 3,686,096.

Meuller, William J.; and Nowacki, Louis J., 3,702,778.

Zuppiger, Paul, 3,695,183.

Battenfeld Maschinenfabriken GmbH, Firma, mesne: See—
Stuhlmann, Hans; and Stuhlmann, Werner, 3,678,597.

Batterman, Steven C., to Stress Corporation. Apparatus for acoustically determining periodontal health. 3,653,373, 4-4-72, Cl. 128-2.

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Fearon, Joseph G.; and Battermann, George Monte Gilbert, 3,701,320.

Battershell, Robert D., to Diamond Shamrock Corporation. Trimesonitriles. 3,637,796, 1-25-72, Cl. 260-465.

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Battista, Orlando A., to FMC Corporation. Water-insoluble microcrystalline collagen absorbent mat. 3,632,361, 1-4-72, Cl. 106-122.

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Battista, Orlando A., to FMC Corporation. Microcrystalline collagen, method of making same and foods, pharmaceuticals and cosmetics containing same. 3,691,281, 9-12-72, Cl. 424-195.000.

Battiston, Giancarlo: See—
Santangelo, Nicola; Battiston, Giancarlo; Pregaglia, Gianfranco; Cavaterra, Enrico; and Croci, Mauro, 3,702,868.

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Sarati, Luigi; and Battiston, Gianfranco, 3,657,470.

Battistone, Nicola: See—
Pushnig, Godfrey; and Battistone, Nicola, 3,650,342.

Battistoni, John J.; and Hibbard, William E., to Nevada Enzymes, Inc. Enzymatic composition. 3,635,797, 1-18-72, Cl. 195-56.

Battjes, Carl R., to Tektronix, Inc. Amplifier circuit. 3,633,120, 1-4-72, Cl. 330-30.

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Holt, Ronald, 3,659,398.

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Battles, Dorothy Mott: See—

Mott, Carl W., 3,698,168.
 Batts, John H., to Batts, John Thomas, Inc. Clamp. 3,665,563, 5-30-72, Cl. 24-258.000.
 Batts, John H., to Batts, John Thomas, Inc. Molded garment clamp. 3,698,043, 10-17-72, Cl. 24-84.
 Batts, John H., to Batts, John Thomas, Inc. Garment clamping hanger. 3,698,607, 10-17-72, Cl. 223-96.000.
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 Baturka, Walter, to Houdaille Industries, Inc. Collet chuck. 3,652,100, 3-28-72, Cl. 279-51.
 Batz, James E., to Northern Illinois Gas Company. Remote meter reading system. 3,705,385, 12-5-72, Cl. 340-152.00r.
 Batz, Simon, to Indiana University Foundation. Difluoroalatoxostannate(II) complexes. 3,678,153, 7-18-72, Cl. 424-52.000.
 Batzdorff, Alfred, to American Electronic Laboratories, Inc. Inspection recorder means. 3,633,211, 1-4-72, Cl. 346-14.
 Batzer, Hans: See—
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 Habermeier, Juergen; Batzer, Hans; and Porret, Daniel, 3,679,681.
 Habermeier, Juergen; Batzer, Hans; and Porret, Daniel, 3,686,174.
 Haug, Theobald; and Batzer, Hans, 3,676,455.
 Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,655,817.
 Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,674,746.
 Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,678,009.
 Porret, Daniel; Habermeier, Juergen; and Batzer, Hans, 3,640,910.
 Reber, Willy Ernst; Nigst, Henry; Haas, Josef; Batzer, Hans; and Zuppinger, Paul, 3,669,708.
 Schmid, Rolf; Bucher, Ingrid; Fisch, Willy; and Batzer, Hans, 3,641,194.
 Schmid, Rolf; Lohse, Friedrich; Fisch, Willy; and Batzer, Hans, 3,642,674.
 Schmid, Rolf; Lohse, Friedrich; Fisch, Willy; and Batzer, Hans, 3,642,938.
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 Batzer, Othmer F., to International Minerals & Chemical Corporation. Virus insecticide. 3,639,578, 2-1-72, Cl. 424-93.
 Batzill, Wolfgang: See—
 Troeger, Gottfried; Mueller, Gerhart Hermann; Bachmann, Gerhard; Spoor, Herbert; and Batzill, Wolfgang, 3,697,461.
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 Baughan, Michael L., to General Motors Corporation. Vehicle deceleration circuit. 3,702,459, 11-7-72, Cl. 340-62.000.
 Baucke, Horst, to Jagenberg-Werke AG. Apparatus for braking and overlapping of sheets made of paper or the like to be deposited on a stack. 3,659,839, 5-2-72, Cl. 271-46.
 Baucom, Keith K., to Baxter Laboratories, Inc. Recipient identification. 3,698,383, 10-17-72, Cl. 128-2.00g.
 Baud, Roger C., to Finizen Lures, Inc. Fish plug lure. 3,665,634, 5-30-72, Cl. 43-35.000.
 Baude, John, to Isotopes, Inc., mesne. Purge control for fuel cell. 3,697,325, 10-10-72, Cl. 136-86.00b.
 Baudou, Antoine Joseph Georges. Mold for ski boots and the like. 3,684,417, 8-15-72, Cl. 425-119.000.
 Baudras, Andre, to Societe Technique et Commercial d'Installations Industrielles "Luceat". Tank car loading unit. 3,705,610, 12-12-72, Cl. 141-387.000.
 Baudry, Jean, to Institut Francais du Petrole des Carburants et Lubrifiants. Device for reducing the emission of pollution responsible products by external carburation engines during the deceleration periods. 3,688,752, 9-5-72, Cl. 123-97.00b.
 Bauer, Adolf: See—
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 Bauer, George W., II, 3,692,394.
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 Bauer Bros. Co., The: See—
 Horstman, Anton J., 3,685,747.
 Leask, Raymond A., 3,661,328.
 Bauer, Charles L.: See—
 Allen, Joseph C.; and Bauer, Charles L., 3,638,727.
 Bauer, Charles L., to Scovill Manufacturing Company. Kitchen mixer. 3,668,348, 6-6-72, Cl. 200-80.000.
 Bauer, Clarence Gerald, to Western Dynamics, Inc., mesne. Economical, tough, debris-free shaped charge device and perforating gun assembly employing same. 3,650,212, 3-21-72, Cl. 102-20.
 Bauer, David L.: See—
 Surls, Joseph P.; Bauer, David L.; and West, Ben F., 3,703,357.
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 Bauer, Dietrich; and Fratzscher, Helmut, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for obtaining an asbestos-fiber material of a high degree of separation. 3,668,119, 6-6-72, Cl. 210-42.
 Bauer, Donald J.: See—
 Lindstrom, Roald E.; and Bauer, Donald J., 3,634,070.
 Bauer, Douglas M., to General Electric Company. Analog digital converter. 3,678,500, 7-18-72, Cl. 340-347.0ad.
 Bauer, Eddie, to B & B. Fishing lure or attractor. 3,673,727, 7-4-72, Cl. 43-42.510.
 Bauer, Eddie, Inc., mesne: See—
 McGuire, William L., 3,639,931.
 Bauer, Erich; Reichard, Franz; and Schwarz, Ferdinand, to Osterreichische Mineralolverwaltung Aktiengesellschaft. Process for the utilization of the energy content of the flue gas accrued in catalytic cracking plants. 3,702,308, 11-7-72, Cl. 252-417.000.
 Bauer, Everhard. Apparatus for charging trays having a surrounding flange with articles ordered in groups. 3,653,178, 4-4-72, Cl. 53-159.
 Bauer, Franz; Besemer, Karl Friedrich; and Kinner, Gotthard, to Siemens Aktiengesellschaft. Testing probe construction. 3,676,776, 7-11-72, Cl. 324-72.500.
 Bauer, Friedrich; and Kohler, Robert, to Hoerbiger Ventilwerke Aktiengesellschaft. Plate valve. 3,703,912, 11-28-72, Cl. 137-514.000.
 Bauer, Fritz. Continuously adjustable lifting devices. 3,656,593, 4-18-72, Cl. 188-300.
 Bauer, George J. Fisherman's knot tying device. 3,700,272, 10-24-72, Cl. 289-17.000.
 Bauer, George T., to Xerox Corporation. Illumination control system. 3,672,759, 6-27-72, Cl. 355-3.000.
 Bauer, George W., II, to Bauer, Anton, Inc. Motion picture camera motor control. 3,692,394, 9-19-72, Cl. 352-176.000.
 Bauer, Helmut, to Airco, Inc., mesne. High speed stop valve. 3,661,173, 5-9-72, Cl. 137-462.
 Bauer, Helmut. Frames lockable between stationary supports. 3,680,260, 8-1-72, Cl. 49-465.000.
 Bauer, Ignaz; Riedle, Rudolf; and Nitzsche, Siegfried, to Wacker-Chemie G.m.b.H. Mold articles and coating based on organopolysiloxanes. 3,660,524, 5-2-72, Cl. 260-825.
 Bauer, Jackson, to Collins & Aikman Corporation. Method of producing laminated textile fabrics with improved dimensional stability. 3,650,867, 3-21-72, Cl. 156-183.
 Bauer, Jackson, to Collins & Aikman Corporation. Method for manufacture of compacted composite fabrics using thermoplastic adhesives. 3,666,595, 5-30-72, Cl. 156-324.000.
 Bauer, James A., to Westinghouse Electric Corporation. Suspension spring. 3,648,999, 3-14-72, Cl. 267-160.
 Bauer, James J., to Clark Equipment Company, mesne. Tractor vehicle with hydrostatic drive means. 3,635,365, 1-18-72, Cl. 214-778.
 Bauer, James J., to Clark Equipment Company. Fluid system for a vehicle with fluid drive means. 3,646,596, 2-29-72, Cl. 60-52.
 Bauer, James J.; Werner, James L.; and Erickson, Leland E. Quick attachment device. 3,672,521, 6-27-72, Cl. 214-145.000.
 Bauer, James J., to Clark Equipment Company. Variable speed piston-swivel combination. 3,685,365, 8-22-72, Cl. 74-230.17f.
 Bauer, Jean-Michel; and Brossard, Andre, to Societe Generale des Produits Refractaires. Refractory structure. 3,656,721, 4-18-72, Cl. 263-19.
 Bauer, Johann: See—
 Balwe, Thomas; Bauer, Johann; and Fendel, Kurt, 3,663,520.
 Beier, Gerhard; Heckmaier, Joseph; and Bauer, Johann, 3,632,562.
 Bauer, Johann; Hollenbach, Georg; Popp, Walter; and Sabel, Alex, to Wacker-Chemie G.m.b.H. High impact strength molding mixtures based on chlorinated polyvinylchloride. 3,642,948, 2-15-72, Cl. 260-876.
 Bauer, Johann; and Sabel, Alex, to Wacker-Chemie GmbH. Process for the production of polymerizates of vinyl chloride. 3,682,874, 8-8-72, Cl. 260-87.50c.

Bauer, Johann; Fendel, Kurt; and Balwe, Thomas, to Wacker-Chemie G.m.b.H. Nitrites in vinyl chloride polymerization. 3,691,080, 9-12-72, Cl. 260-78.5cl.
 Bauer, Johannes. Infinitely variable chain-engaged gearing. 3,688,595, 9-5-72, Cl. 74-230.170.
 Bauer, John M.: See—
 Strauss, Cyrus M.; and Bauer, John M., 3,650,960.
 Bauer, Josef, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft Zweigniederlassung Nurnberg. Conveyor worm for conveying liquids and mud-like substances. 3,687,575, 8-29-72, Cl. 417-423.000.
 Bauer, Karl: See—
 Treptow, Heinz; and Bauer, Karl, 3,636,697.
 Bauer, Karl; Martens, Gerhard; and Schiminski, Herbert, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Inductively heated godet. 3,701,873, 10-31-72, Cl. 219-10.610.
 Bauer, Karl Gerhard: See—
 Platz, Rolf; and Bauer, Karl Gerhard, 3,634,531.
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 Labude, Wolfgang; and Bauer, Karl-Heinz, 3,689,724.
 Bauer, Klaus: See—
 Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, 3,634,196.
 Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, 3,650,902.
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 Wittmann, Gunther; Bauer, Kurt; and Mussgay, Manfred, 3,632,741.
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 Bauer, Leo, to Sperry Rand Corporation. Power transmission. 3,696,836, 10-10-72, Cl. 137-625.250.
 Bauer, Lieselotte: See—
 Krueger, Friedrich; and Bauer, Lieselotte, 3,699,048.
 Bauer, Paul R.: See—
 Trbovich, Nicholas D.; Meyer, William H.; and Bauer, Paul R., 3,639,871.
 Bauer, Peter, to Bowles Engineering Corporation. Fluidic counter. 3,645,442, 2-29-72, Cl. 235-201.
 Bauer, Peter, to Bowles Fluidics Corporation. Bi-directional fluidic elements and circuits. 3,675,669, 7-11-72, Cl. 137-1.000.
 Bauer, Ralf, to Veb Warnowwerft. Roll-back closure assembly for large openings, especially for hatch openings of ships. 3,698,346, 10-17-72, Cl. 114-201.000.
 Bauer, Richard G.: See—
 Patitsas, George P.; and Bauer, Richard G., 3,661,824.
 Bauer, Richard G.; and Patitsas, George P., to Goodyear Tire & Rubber Company, The. Ethylhexyl acrylate-acrylonitrile-divinylbenzene terpolymers. 3,676,410, 7-11-72, Cl. 260-80.810.
 Bauer, Robert: See—
 Bloch, Rene; Bauer, Robert; and Phillips, Ben F., 3,635,679.
 Bauer, Robert, to Miles Laboratories, Inc. Indicator for detecting hydrogen peroxide and peroxidative compounds containing Bindschedler's green. 3,654,179, 4-4-72, Cl. 252-408.
 Bauer, Robert, to Miles Laboratories, Inc. Indicator for detecting hydrogen peroxide and peroxidative compounds containing alpha naphthoflavone. 3,654,180, 4-4-72, Cl. 252-408.
 Bauer, Robert D. Drying of gases containing polymers and/or polymerizable constituents. 3,691,251, 9-12-72, Cl. 260-683.00r.
 Bauer, Robert F.; McNeill, Robert C.; and Ledbetter, Jerry T., to Shell Oil Company. Underwater wells. 3,682,243, 8-8-72, Cl. 166-600.
 Bauer, Ronald; Chung, Harold; Cannell, Lawrence George; Keim, Wilhelm; and Van Zwet, Henry, to Shell Oil Company. Ethylene polymerization in the presence of complex nickel catalysts containing benzoic acid derivative ligands. 3,637,636, 1-25-72, Cl. 260-949.
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 Bauer, Ronald; Chung, Harold; Barnett, Kenneth W.; Glockner, Peter W.; and Keim, Wilhelm, to Shell Oil Company. Ethylene polymerization. 3,686,159, 8-22-72, Cl. 260-94.90c.
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 Bauer, Ronald S.; Glockner, Peter W.; Keim, Wilhelm; and Mason, Ronald F., to Shell Oil Company. Ethylene oligomerization. 3,647,915, 3-7-72, Cl. 260-683.15.
 Bauer, Rudolf: See—
 Walther, Gerhard; Bauer, Rudolf; Schulz, Werner; and Sirrenberg, Walther, 3,703,523.

Bauer, Rudolf; Jacob, Herbert; and Braun, Werner, to Wacker-Chemie G.m.b.H. Packaging epitaxially coated semiconductor disks. 3,672,495, 6-27-72, Cl. 206-65.00f.
 Bauer, Russell E., to KDI-Bauer Corporation, mesne. Locking device. 3,646,645, 3-7-72, Cl. 24-241.
 Bauer, Russell E., to KDI-Bauer Corporation. Marine sewage pump. 3,674,380, 7-4-72, Cl. 427-92.000.
 Bauer, Simon H.: See—
 Bar-Nun, Akiva; Bauer, Simon H.; and Sagan, Carl, 3,652,434.
 Bauer, Stuart Michael: See—
 Price, Richard Thompson; Bauer, Stuart Michael; Brownlee, John; and Goberde, Bastiaan Cornelis, 3,655,838.
 Bauer, Theodor: See—
 Porsche, Ferdinand Alexander; and Bauer, Theodor, 3,635,487.
 Porsche, Ferdinand Alexander; and Bauer, Theodor, 3,635,497.
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 Bauer, Theodor, to Porsche, Dr.-Ing., H.c.F., K.G., Firma. One-track sliding vehicle. 3,635,488, 1-18-72, Cl. 280-16.
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 Wiegand, Gretchen Ellen; Bauer, Victor John; and Safir, Sidney Robert, 3,705,157.
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 Bauer, Victor John; and Safir, Sidney Robert, to American Cyanamid Company. Hypoglycemic agents. 3,681,498, 8-1-72, Cl. 424-263.000.
 Bauer, Victor John; Wiegand, Gretchen Ellen; and Safir, Sidney Robert, to American Cyanamid Company. 4-(Triazolyl) pyridinium salts and 4(oxazolyl) pyridinium salts for lowering blood glucose levels. 3,703,577, 11-21-72, Cl. 424-263.000.
 Bauer, Walter C.: See—
 Ewbank, Walter J.; Harden, Darrel G.; and Bauer, Walter C., 3,657,879.
 Bauer, Werner: See—
 Schneider, Rudi; Schneider, Lisa; and Bauer, Werner, 3,656,193.
 Bauer, William, Jr.: See—
 Niederhauser, Warren Dexter; Belmares-Sarabia, Hector; and Bauer, William, Jr., 3,641,199.
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 Bauer, William W. Hand device for basketball players. 3,640,532, 2-8-72, Cl. 273-1.5.
 Bauerle, Oskar; Kubel, Wilfried; Munster, Ernst; Schweikert, Karl; and Strobl, Georg. Commutator. 3,705,997, 12-12-72, Cl. 310-237.000.
 Bauerlein, Rudolf; and Uhl, Dieter, to Siemens Aktiengesellschaft. Method of increasing the current amplification and the radiation resistance of silicon transistors with silicon oxide cover layer. 3,691,376, 9-12-72, Cl. 250-49.5te.
 Baerman, W. & Sohne GmbH: See—
 Uthemann, Wolfgang; and Zimmermann, Richard (said Uthemann assor. to), 3,703,182.
 Bauernfeind, Carl J.; and Zeman, Raymond F., to International Business Machines Corporation. Time interval measuring and accumulating device. 3,656,060, 4-11-72, Cl. 324-186.
 Bauger, Louis Jules; and Lacroix, Armand Jean-Baptiste, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Burners for reheat combustion chambers. 3,633,361, 1-11-72, Cl. 60-39.71.
 Bauger, Louis Jules; Beyler, Roland Robert Charles; Le Guen, Henri; Pidebois, Jacques Eloi; and Schenher, Michel Bernard, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Device for burning the unburnt residue in the exhaust gases of internal combustion engines. 3,677,013, 7-18-72, Cl. 60-303.000.
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 Baugh, Benton F., to Vetco Offshore Industries, Inc. Tubing hanger orienting apparatus and pressure energized sealing device. 3,693,714, 9-26-72, Cl. 106-600.
 Baugh, Hollis A., to Brown Oil Tools, Inc. Well perforator with positioning tool. 3,656,562, 4-18-72, Cl. 175-4.51.
 Baugh, John C.; Koenig, John E.; and Mc Cuskey, James R., to Van Dorn Company. Easy opening rectangular metal container. 3,682,350, 8-8-72, Cl. 220-54.000.
 Baugh, William A., to Ethyl Development Corporation. Threaded container closure. 3,682,345, 8-8-72, Cl. 215-43.00r.
 Baugh, William D.: See—
 Horvitz, David; and Baugh, William D., 3,705,163.
 Baugher, Dale Milton; and Hausman, Earl Thomas, to RCA Corporation. Multi-circuit hybrid module and method for making. 3,648,116, 3-7-72, Cl. 317-101.
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 Baughman, Davis L., to Carborundum Company, The. Shot peening method. 3,705,510, 12-12-72, Cl. 72-53.000.

- Baughman, Gaylord G., to Cascade Corporation. Load-handling apparatus with reach mechanism. 3,675,803, 7-11-72, Cl. 214-730.000.
- Baughman, James R.: See—
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- Bauhus, Gunter; and Schmidtchen, Hans, to Gebr. Buhler Nachfolger GmbH. Driving assembly. 3,665,774, 5-30-72, Cl. 74-325.
- Baukal, Albert Jozel: See—
Viktora, Josef Karel; and Baukal, Albert Jozel, 3,675,488.
- Baukhage, Ernest Peter. Safety turntable for a ski binding. 3,672,695, 6-27-72, Cl. 280-11.35k.
- Bauknight, Robert L. Clipboard illuminator. 3,694,644, 9-26-72, Cl. 240-6.40b.
- Baulieu, William H.: See—
Conners, John A.; Liepelt, Donald W.; and Baulieu, William H., 3,692,276.
- Baum, Charles S.: See—
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- Baum, Elliot; and Loewengart, Harry R., to Quasar Microsystems, Inc. Data transmission system, utilizing A.C. line frequency as clock. 3,652,876, 3-28-72, Cl. 307-262.
- Baum, George, to Corning Glass Works. Electrode sensitive to choline and its esters and methods using said electrode. 3,632,483, 1-4-72, Cl. 204-1.
- Baum, George, to Corning Glass Works. Liquids thickened with sub-microscopic beta-silicon carbide fiber sheathed with silica. 3,652,348, 3-28-72, Cl. 149-36.
- Baum, Gilbert. Electrical display systems. 3,696,324, 10-3-72, Cl. 340-1.00r.
- Baum, Hans Eduard, to Allplas A.G. Liquid storage system. 3,687,329, 8-29-72, Cl. 220-26.00r.
- Baum, Harold M., to SCM Corporation. Animal litter and process. 3,636,927, 1-25-72, Cl. 119-1.
- Baum, Heinz, to Jansen Th., G.m.b.H. Flap valve. 3,669,405, 6-13-72, Cl. 251-279.000.
- Baum, Kurt, to United States of America, Navy, mesne. Certain difluoramine compounds. 3,637,848, 1-25-72, Cl. 260-563.
- Baum, Martin D.; and Henry, Cyrus P., Jr., to Du Pont de Nemours, E. I., and Company. Hexaarylbiimidazole bis (p-dialkylaminophenyl- α,β -unsaturated) ketone compositions. 3,652,275, 3-28-72, Cl. 96-48.
- Baum, Matthew C., to Farrand Optical Co., Inc. Dual raster television system. 3,654,386, 4-4-72, Cl. 178-96.
- Baum, Melvin E., to Koppers Company, Inc. Unsaturated polyester resin molding powder. 3,632,667, 1-4-72, Cl. 260-861.
- Baum, Melvin E.; and Hatton, John A., Jr., to Koppers Company, Inc. Chemically thickened polyester resin. 3,637,911, 1-25-72, Cl. 260-865.
- Baum, Robert E., to Sencore, Inc. Automatic color CRT tracking testor and method of testing. 3,688,184, 8-29-72, Cl. 324-20.0cr.
- Baum, Roger D.: See—
Anderson, Theodore C.; Baum, Roger D.; Favin, David L.; and Rugo, John J., 3,637,954.
- Baum, Theodore, to Harris-Intertype Corporation. Box blank folder. 3,656,416, 4-18-72, Cl. 93-52.
- Baum, Walter Karl-Theodor; and Breitenbach, Otto. Communications cables having reduced interference characteristics. 3,674,933, 7-4-72, Cl. 178-68.00b.
- Baum, Werner, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung. Method of feeding liquid propellants to gas generators or rocket combustion chambers and feeding system for performing the method. 3,672,165, 6-27-72, Cl. 60-39.480.
- Baum, Wilhelm, to Siemens Aktiengesellschaft. Sintered borosilicate glass. 3,647,491, 3-7-72, Cl. 106-54.
- Baum, Wilhelm, to Siemens Aktiengesellschaft. Borosilicate glass for producing articles by centrifugal casting. 3,650,782, 3-21-72, Cl. 106-54.
- Baum, Wilhelm; and Gierlichs, Michael, to Henkel & Cie G.m.b.H. Free flowing powder containing confectioners sugar. 3,698,917, 10-17-72, Cl. 99-141.000.
- Bauman, Albert J., to California Institute of Technology. Method and apparatus for micro dry column chromatography. 3,692,669, 9-19-72, Cl. 210-31.000.
- Bauman, Joseph F.; Kurtz, Edward, Jr.; Cini, Adrian V.; and Antrobus, Robert E., to Acme-Hamilton Manufacturing Corporation. Flexible corrugated tubing having improved performance characteristics. 3,640,312, 2-8-72, Cl. 138-121.
- Bauman, Joseph F.; and Elson, Arthur M., to Acme-Hamilton Manufacturing Corporation. Method and apparatus for handling waste material, refuse and the like. 3,688,802, 9-5-72, Cl. 138-109.000.
- Bauman, Ronald M. High isolation A.C. to D.C. converter. 3,699,426, 10-17-72, Cl. 321-27.00r.
- Bauman, Weldon W.; and Collins, Edward, IV, to Itek Corporation. Digital PRF filter. 3,705,358, 12-5-72, Cl. 328-110.000.
- Bauman, William C., to Dow Chemical Company, The. Bipropellant rocket process using nitridable fuel. 3,668,873, 6-13-72, Cl. 60-211.000.
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Schmitt, Dieter; Stein, Alfred; and Baumer, Wilhelm, 3,661,532.
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Waschulewski, Hans-Georg; Baumers, Hans; and Lambertz, Hans-Reinhard, 3,636,834.
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Wendler, Gunther, 3,665,231.
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Harms, Luhr; and Voigt, Gunter, 3,694,916.
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Baur, Heinz, 3,683,232.
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Gerke, Peter; Baur, Hans; Rutkowski, Karl; Binder, Hans-Eugen; Palsa, Helmut; and Fabianke, Hartmut, 3,668,319.
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Wilton, Inga Elna Maria; and Bauren, Karl Lennart Emanuel, 3,682,656.
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- Hall, Thomas O., Jr.; and Peck, William G., 3,702,922.
- Holmes, Robert W., 3,645,609.
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- Nothnagle, Paul E., 3,650,597.
- Nothnagle, Paul E.; and Rosenberger, Harold E., 3,687,520.
- Parnell, James A., 3,668,672.
- Parnell, James A., 3,683,402.
- Pitchford, Richard L., 3,698,799.
- Rosenbauer, Charles H., 3,649,236.
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- Wheelless, Leon L., Jr.; and Patten, Stanley F., Jr., 3,657,537.
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Akin, Alfred A., Jr., 3,672,782.
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Thierstein, Hans, 3,642,013.
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Jakobi, Wilhelm, 3,683,605.
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Harfenist, Morton; and Bautzly, Richard, 3,694,556.
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Newman, James W.; Bavaro, Nicholas M.; and Wagner, William A., 3,666,200.
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Rutten, Hendrikus S.; Kruisman, Gerard; de Groot, Johan; Westra, Simon; and Bavelaar, Abraham P., 3,651,525.
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Macartney, Carl H.; and Bawduniak, Joseph A., 3,675,469.
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Dubner, Harvey, 3,671,944.
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Freeman, Harlan G.; Baxter, Gene F.; and Howell, John T., 3,663,481.
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Ullman, William L.; Baxter James C.; Pearson, Arthur J.; Davis, Robert E.; and Hullhorst, William B., 3,642,034.
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Baucom, Keith K., 3,698,383.
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- Berger, Arthur; and Borgaes, Edeltraut E., 3,637,703.
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- Bhatia, Surindar Kumar; and Memhardt, Charles Rogers, 3,640,283.
- Burdick, Thomas H., 3,689,879.

- Caster, Glenn, 3,685,795.
 Cayle, Theodore; and Schleich, Hans, 3,684,710.
 Creely, Joseph W., 3,686,120.
 Cromie, Harry W., 3,691,567.
 Dali, Carmelo P.; and Szempruch, Walter T., 3,682,171.
 Evanson, Clifford E., 3,656,424.
 Fekete, Lajos F.; and Shanbrom, Edward, 3,682,881.
 Funkhouser, Harold F.; and Daugherty, Charles W., 3,655,317.
 Giambrone, Harry Joseph, 3,707,005.
 Ginger, Leonard George; and Mather, Adaline Nicles, 3,639,213.
 Goldhaber, Richard Paul, 3,639,084.
 Grimes, Raymond E.; and Bruen, Robert W., 3,696,002.
 Hall, John P., 3,658,061.
 LeMay, William E.; and Glennon, Richard F., 3,687,702.
 Leonard, Ronald James; and Cohen, Fred Michael, 3,640,340.
 Louderback, Allan L., 3,682,835.
 Louderback, Allan L.; and Youhne, Young, 3,705,110.
 Michielsen, Paul Joseph, 3,660,241.
 Regan, Bernard M., 3,649,669.
 Regan, Bernard M., 3,659,023.
 Regan, Bernard M., 3,671,645.
 Regan, Bernard M.; and Longstreet, John C., 3,683,092.
 Regan, Bernard M., 3,689,459.
 Regan, Bernard M.; and Longstreet, John C., 3,689,571.
 Regan, Bernard M., 3,702,872.
 Riely, Phyllis; and Skyles, Robert (said Skyles assor. to), 3,631,654.
 Salinger, Fred G., 3,696,232.
 Schlutz, Charles A.; and Bellamy, David, Jr., 3,672,564.
 Seitz, Lamont J.; and Bowen, John G., 3,635,678.
 Shaye, Nat, 3,677,242.
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 Martin, Kenneth C.; Baxter, Michael D.; and Holmes, John F., 3,687,579.
 Baxter, Michael David, to Hobourn-Eaton Manufacturing Company Limited. Attachment for cutting rock gear teeth of variable pitch. 3,687,006, 8-29-72, Cl. 90-7.000.
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 Bay Alarm Company: See—
 Westphal, Bruce A., 3,706,987.
 Bay, Eduard. Two-part roasting pan. 3,659,585, 5-2-72, Cl. 126-390.
 Bay, Harry C. Automatic coin sorting, counting and wrapping machine. 3,650,085, 3-21-72, Cl. 53-59.
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 Bayard, Robert T.: See—
 Shank, Richard C.; Zucker, Carl E.; Jones, David H.; Ribb, Harry F., Jr.; and Bayard, Robert T., 3,640,844.
 Bayati, Autorab, to Siemens Aktiengesellschaft. Analog-to-digital converter. 3,634,852, 1-11-72, Cl. 340-347.
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 McKean, Jack H., 3,701,355.
 Metzger, Sidney H., Jr., 3,689,499.
 Baychem Corporation, mesne: See—
 Bernard, David L.; and Doheny, Anthony J., Jr., 3,657,161.
 Emerson, Carl D.; and Aichenegg, Paul C., 3,652,653.
 Gier, Delta W., 3,664,822.
 Gier, Delta W.; and Wasleski, Daniel M., 3,699,150.
 Miller, Gerald W., 3,646,159.
 Persin, William J., 3,700,287.
 Rawlings, Herbert L., 3,640,951.
 Baycura, Orestes M. Magnetic control device. 3,643,104, 2-15-72, Cl. 307-88.
 Baycura, Orestes M. Variable position multi-element capacitor voltage transformer device. 3,644,822, 2-22-72, Cl. 323-93.
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 Dietrich, Werner; and Stammheim, Andres, 3,706,678.
 Hagemann, Hermann, 3,706,778.
 Hoffmann, Hellmut; and Hammann, Ingeborg, 3,706,820.
 Kishino, Shigeo; Kudamatsu, Akio; and Shiokawa, Kozo, 3,705,218.
 Lepold, Manfred F.; Heinze, Gerhard; Kaule, Gustav; and Podschus, Ernst, 3,703,797.
 Mader, Rudolf Mayer; and Schwinum, Ernst, 3,704,283.
 Muller, Karl-Heinz; Rohr, Harry; and Ott, Karl-Heinz, 3,704,071.
 Oertel, Gunter; Holtschmidt, Hans; Dollhausen, Manfred; and Bock, Eugen, 3,707,486.
 Pampus, Gottfried; Witte, Josef; and Marwede, Gunter, 3,707,520.
 Wiegler, Frank; Brudermanns, Karola; and Bartl, Herbert, 3,705,883.
 Wiegler, Frank; and Bartl, Herbert, 3,707,567.
 Bayer, Bernd: See—
 Riess, Werner; Schaefer, Helmut; and Bayer, Bernd, 3,676,180.
 Bayer, Carl, Jr.: See—
 DuBuis, Edwin O.; and Bayer, Carl, Jr., 3,643,103.
 Bayer, Eduard; and Vogelbruch, Willi. Device for uniting the edges of a double or multiple glass pane. 3,653,867, 4-4-72, Cl. 65-156.
 Bayer, Edward C.: See—
 Schwalm, Donald J.; and Bayer, Edward C., 3,662,996.
 Bayer, Erich, to Bosch, Robert, G.m.b.H. Carbon brush for use in electric motors. 3,681,635, 8-1-72, Cl. 310-248.000.
 Bayer, Friedrich, to Friedrich Grohe Armaturenfabrik. Water regulating valve. 3,633,870, 1-11-72, Cl. 251-270.
 Bayer, Gerhard: See—
 Ruter, Hermann; Cherdron, Egon; Haerter, Manfred; and Bayer, Gerhard, 3,663,202.
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 Bayer, Horst O., to Rohm & Haas Company. Ethylenic sulfilimine compositions for controlling fungi, bacteria and algae. 3,653,873, 4-4-72, Cl. 71-67.
 Bayer Industries, Inc.: See—
 Breitkopf, Walter J.; Bayer, Jack L.; and Bayer, Leon F., 3,639,071.
 Bayer, Jack L.: See—
 Breitkopf, Walter J.; Bayer, Jack L.; and Bayer, Leon F., 3,639,071.
 Bayer, John W., to Owens-Illinois, Inc. Polyolefin substrate decorated with a heat fused polyester-alkyd resin printing ink. 3,666,519, 5-30-72, Cl. 117-17.500.
 Bayer, Kurt: See—
 Croce, Joseph; and Bayer, Kurt, 3,693,596.
 Bayer, Leon F.: See—
 Breitkopf, Walter J.; Bayer, Jack L.; and Bayer, Leon F., 3,639,071.
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 Bayer, Otto, to Heraeus-Schott Quarzschmelze GmbH. Method of producing transparent or opaque fused silica or glass with a high silicon content. 3,666,414, 5-30-72, Cl. 106-52.
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 Claussen, Uwe, 3,683,734.
 Bayerlein, Friedrich: See—
 Kolbeck, Winfried; and Bayerlein, Friedrich, 3,646,056.
 Bayerlein, Friedrich J.: See—
 Stark, Adolf F.; Kolbeck, Winfried; and Bayerlein, Friedrich J., 3,704,318.
 Bayew, Dimitre: See—
 Kaufman, Otto; Daeuble, Manfred; Witsch, Heinz-Guenter; Luebecke, Enno; and Bayew, Dimitre, 3,671,176.
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 Bayha, Jack E., to ARDAC/USA Incorporated. Stacker for paper currency. 3,655,186, 4-11-72, Cl. 271-88.
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 Bayles, Fred R., to LTV Electrosystems, Inc. Hydraulic control means. 3,683,749, 8-15-72, Cl. 91-438.
 Bayless, Jack H.: See—
 Penberthy, Walter L.; Bayless, Jack H.; and Ayers, Robert C., Jr., 3,664,425.
 Penberthy, Walter L., Jr.; Bayless, Jack H.; and West, Robert C., 3,664,424.
 Bayless, Robert G.; Shank, Charles P.; Botham Ruth A.; and Werkmeister, Dennis W., to National Cash Register Company, The.

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 Bayne, Dennis R.: See—
 Vahlstrom, Richard E.; Nutten, Donald C.; and Bayne, Dennis R., 3,675,047.
 Bayne, Jimmy O. Clothes hanger storing and display device. 3,692,188, 9-19-72, Cl. 211-49.00d.
 Bayne, John; King, Ian Robert; and Morey, John Richard, to Laporte Industries Limited. Vapour phase oxidation of benzene to maleic anhydride using an aluminum phosphate supported catalyst. 3,697,550, 10-10-72, Cl. 260-346.800.
 Bayne, Peter D.: See—
 Krause, Ronald O.; and Bayne, Peter D., 3,705,597.
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 Bayon, Patrice Marie. Safety belts incorporated in a vehicle's seat. 3,637,258, 1-25-72, Cl. 297-389.
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 Bayshore Concrete Products Corporation: See—
 Van Buren, Myers, 3,652,756.
 Bayssat, Michel; Fontaine, Louis; and Grand, Marcel, to Lipha Lyonnaise Industrielle Pharmaceutique. Substituted cinnamamides in myorelaxant compositions. 3,659,014, 4-25-72, Cl. 424-324.
 Baytron Co., Inc.: See—
 Kozul, Theodore L.; and Crandell, Paul A., 3,681,718.
 Bayze, Thomas F. Air pollution circulation device. 3,678,658, 7-25-72, Cl. 55-230.000.
 Bazant, Vladimir: See—
 Rod, Vladimir; Bazant, Vladimir; and Sir, Zdenek, 3,694,497.
 Bazell, Seymour: See—
 Bortz, Seymour A.; Rechter, Harold L.; Reynolds, William E.; and Bazell, Seymour, 3,662,405.
 Bazin, Lucas John: See—
 Herrmann, Donald Charles; and Bazin, Lucas John, 3,651,339.
 Bazinet, Wilfred P., Jr.; and Salce, John E., to Noma-World Wide, Inc. High temperature termination for fiber optic bundle. 3,681,164, 8-1-72, Cl. 156-294.
 Bazouin Andre: See—
 Bakassian, Georges; and Bazouin, Andre, 3,646,088.
 Bakassian, Georges; and Bazouin, Andre, 3,652,625.
 Bakassian, Georges; and Bazouin, Andre, 3,652,626.
 Bazouin, Andre; and Lefort, Marcel, to Rhone-Poulenc S.A. Process for the production of arylphenylmethylchlorosilanes. 3,637,780, 1-25-72, Cl. 260-448.2.
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 B.C.T.I. Bureau de Coordination de Travaux Industrialises, S.a.r.l.: See—
 Trezzini, Henri Louis; and Czaryski, Norbert, 3,693,308.
 B.D.H. Chemicals Limited: See—
 Hayman, David Frank; and Wild, Anthony Musgrave, 3,641,123.
 BDH Pharmaceuticals Limited: See—
 Beckham, Robinson, 3,677,397.
 Bysouth, Peter Thomas; and Wild, Anthony Musgrave, 3,700,738.
 Stephenson, Oliver; Wild, Anthony Musgrave; and Hayman, David Frank, 3,706,782.
 Be Vard, Ralph E.: See—
 Wright, James R.; and Be Vard, Ralph E., 3,706,242.
 Be-Mo Machine Co.: See—
 Beshgetoor, Ray V., 3,666,184.
 Beach, Allan David, to National Research Development Corporation. Pivoted mirror for elbow joint in light tube. 3,642,352, 2-15-72, Cl. 350-288.
 Beach, David E., to Eastman Kodak Company. Mechanism for sensing the condition of a percussive flash device and for effecting synchronous percussive flash exposures. 3,661,063, 5-9-72, Cl. 95-11.5.
 Beach, David E., to Eastman Kodak Company. Mechanism for operating a camera shutter and a mechanically operable flash device in synchronism. 3,687,033, 8-29-72, Cl. 95-11.50r.
 Beach, David E., to Eastman Kodak Company. Electric generator drive mechanism. 3,703,132, 11-21-72, Cl. 95-11.500.
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 Beach, John R., to Signode Corporation. Toothed seal. 3,636,592, 1-25-72, Cl. 24-23.
 Beach, Kenneth M., Jr.: See—
 Maksymiak, John; Beach, Kenneth M., Jr.; and Smith, James W., 3,697,169.
 Beach, Mary B.: See—
 Grote, George A., 3,678,662.
 Grote, George A., 3,681,899.
 Beach, Sidney C., to Chemetron Corporation. Coumarin-carrier addition agent for nickel baths. 3,669,853, 6-13-72, Cl. 204-49.000.
 Beach, Sidney C.; and Martin, Bernard P., to Inorganic & Metal Treating Chemicals Division. Bright nickel plating bath and process. 3,699,016, 10-17-72, Cl. 204-49.000.
 Beach, Willard C.: See—
 Grote, George A., 3,681,899.
 Beach, William R.: See—
 Cunningham, Cecil R.; Beach, William R.; and Brinkley, Ray D., 3,693,338.
 Beach, Willard C.: See—
 Grote, George A., 3,678,662.
 Beach, Willis J., to Sugar Beet Products Company. Skin cleaner. 3,645,904, 2-29-72, Cl. 252-89.
 Beach, Winfield G. Thermal radiation system for soil stabilizer. 3,656,547, 4-18-72, Cl. 165-106.
 Beacham, Harry H.: See—
 Wright, Carl L.; and Beacham, Harry H., 3,637,578.
 Wright, Carl L.; and Beacham, Harry H., 3,684,616.
 Beachley, Robert W. Lighting standard or pole with doubly hinged base. 3,671,738, 6-20-72, Cl. 240-84.000.
 Beachley, Robert W. Protective automatically disconnectable grouping means for an ungrounded A. C. electrical distribution system. 3,678,338, 7-18-72, Cl. 317-18.00r.
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 Beachner, Howard A.: See—
 Beachner, George J., Jr.; Beachner, Howard A.; and Panzarella, Santo C., 3,680,478.
 Beachner, Robert W., to Burroughs Corporation. Controlled pressure platen. 3,693,473, 9-26-72, Cl. 74-520.000.
 Beachy, Dale K.: See—
 Toperzer, John W.; Neogi, Shibendra P.; and Beachy, Dale K., 3,693,954.
 Beacon Manufacturing Company: See—
 Hughes, George H., 3,635,785.
 Hughes, George H., 3,635,786.
 Hughes, George H., 3,649,427.
 Hughes, George H., 3,649,428.
 Hughes, George H., 3,649,429.
 Beacon, Robert G., to Elcon-National, Inc. Braking mechanism. 3,704,046, 11-28-72, Cl. 303-22.
 Beadle, Arthur G.: See—
 Beadle, Clarence C., Jr., 3,686,774.
 Beadle, Clarence C., Jr., 1/3 to Beadle, Raymond R., Sr. and 1/3 to Beadle, Arthur G. Football dryer. 3,686,774, 8-29-72, Cl. 34-227.000.
 Beadle, Raymond R., Sr.: See—
 Beadle, Clarence C., Jr., 3,686,774.
 Beadle, William E.; Benson, Kenneth E.; Mathews, James R.; and Von Ohlsen, Louis H., Jr., to Bell Telephone Laboratories, Incorporated. Fabrication process for light sensitive silicon diode array target. 3,669,768, 6-13-72, Cl. 148-187.000.
 Beagan, Michael A., Jr. Adjustable mounting for rock drills. 3,664,436, 5-23-72, Cl. 173-43.
 Beak-O-Vac, Inc.: See—
 Reynolds, Lamar W., 3,661,259.
 Beakbane, Henry (Fortox) Limited: See—
 Horrobin, Gerald V.; Hutton, John F.; and Knowles, Peter M., 3,642,309.
 Moseley, Royston L., 3,660,213.
 Beakes, Benjamin L., to General Motors Corporation. Tilt steering wheel mechanism. 3,691,866, 9-19-72, Cl. 74-493.000.
 Beal, Charles B. Carrier system for delivery of an end of an elongated member to the upper gastrointestinal tract. 3,683,890, 8-15-72, Cl. 128-2.00w.
 Beal, Edward W.: See—
 Lambert, Robert E.; Beal, Edward W.; and Bacewicz, Anthony J., 3,701,969.
 Beal, Edward W., to Connecticut International Corporation. Optical system for aircraft guidance light. 3,678,260, 7-18-72, Cl. 240-1.200.
 Beal, John O.: See—

Gray, Robert P.; and Beal, John O., 3,646,807.
 Beal, Lawrence E.: See—
 Fulton, Samuel R.; and Beal, Lawrence E., 3,687,780.
 Beal, Lawrence E.; Miller, Earl D.; and Craig, William R., to Eagle-Picher Industries, Inc. Microswitch operator structure including adjustable cam follower. 3,646,287, 2-29-72, Cl. 200-18.
 Beal, Philip F., III: See—
 Babcock, John C.; and Beal, Philip F., III, 3,679,705.
 Beal, Robert E.; and Eisenhauer, Roger A., to United States of America, Agriculture. Method for removing metals from vegetable oils. 3,634,475, 1-11-72, Cl. 260-428.
 Beale, John H.; and Smith, William Mayo, Jr., to Air Products and Chemicals, Inc. Readily extruded chlorinated copolymers and process of preparing same. 3,700,632, 10-24-72, Cl. 260-87.50c.
 Beale, Julian Robert Anthony: See—
 Robinson, David Phythian; Beale, Julian Robert Anthony; Shannon, John Martin; Kerr, John Anthony; and Das, Mukunda Behari, 3,653,978.
 Beale, Julian Robert Anthony, to U.S. Philips Corporation. Methods of manufacturing a semiconductor device. 3,704,177, 11-28-72, Cl. 148-1.500.
 Beale, William T., to Research Corporation. Stirling cycle type thermal device servo pump. 3,645,649, 2-29-72, Cl. 417-379.
 Beall, George H.; and Martin, Francis W., to Corning Glass Works. Low expansion zinc tellurite-beta quartz glass-ceramic articles. 3,681,097, 8-1-72, Cl. 106-39.0dy.
 Beall, George H., to Corning Glass Works. Transparent glass-ceramic articles comprising zinc spinel. 3,681,102, 8-1-72, Cl. 106-39.0dv.
 Beall, George H., to Corning Glass Works. Mica glass-ceramics. 3,689,293, 9-5-72, Cl. 106-39.0dv.
 Beall, Glenn L.: See—
 Beich, Frank R.; and Beall, Glenn L., 3,661,152.
 Beall, Glenn L., to Respiratory Care, Inc. Nebulizer. 3,652,015, 3-28-72, Cl. 239-338.
 Beall, Richard W., Jr. Hand held spray gun and air valve. 3,658,255, 4-25-72, Cl. 239-415.
 Beals, Robert N. Pressure responsive actuator having application to a valve spool or like device. 3,674,041, 7-4-72, Cl. 137-1.000.
 Beam, Benjamin H.; and Russell, Larry D., to United States of America, National Aeronautics and Space Administration. Thermoelectric radiometer utilizing polymer film. 3,657,644, 4-18-72, Cl. 324-61.
 Beam, Danny J. Block assembly game. 3,649,018, 3-14-72, Cl. 273-95.
 Beam, Harry J., Jr. Hair drying apparatus for dogs and the like. 3,683,512, 8-15-72, Cl. 34-243.000.
 Beam, Norman: See—
 Beasley, Silas V.; and Beam, Norman, 3,696,734.
 Beam, Norman A.: See—
 Murphy, Willard; and Beam, Norman A., 3,672,080.
 Beam, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, to Hoffman-La Roche Inc. 2-Nitroimidazole derivatives substituted in the 1-position with a 2-oxo-propyl or semicarbazone group. 3,641,047, 2-8-72, Cl. 260-309.
 Beam, Alden Gamaliel; and Tautz, William Paul, to Hoffmann-La Roche Inc. 2-Nitroimidazoles. 3,646,057, 2-29-72, Cl. 260-309.
 Beam, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, to Hoffmann-La Roche Inc. 2-Nitroimidazoles. 3,679,698, 7-25-72, Cl. 260-309.000.
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 Beam, Clayton E. Custom wheel adapter for tire changing machine. 3,648,746, 3-14-72, Cl. 157-1.24.
 Beamon, Howard L.: See—
 King, James Frank; Beamon, Howard L.; Lathery, Willie M.; and Newlen, Kenneth W., 3,690,276.
 Bean, Arthur R., Jr.; Papavasiliou, Mary J.; and Snyder, John L., to Shell Oil Company. Diene polymerization process. 3,651,025, 3-21-72, Cl. 260-78.4.
 Bean, Claude T., Jr.: See—
 Dorfman, Edwin; Emerson, William E.; Bean, Claude T., Jr.; and Carr, Russell L. K., 3,669,941.
 Bean, Donald E.; Engh, James T.; Hammer, James R.; Schettl, Myron D.; Tashjian, Harry J.; Ullmer, Richard J.; and Kerr, John W., to International Business Machines Corporation. Data recorder and verifier. 3,642,197, 2-15-72, Cl. 234-35.
 Bean, Dorothy Aday: See—
 Bean, Frank R.; and Bean, Dorothy Aday, 3,655,195.
 Bean, Douglas Colin, to Bean, Douglas, Proprietary Limited. Forceps. 3,648,702, 3-14-72, Cl. 128-321.
 Bean, Douglas, Proprietary Limited: See—
 Bean, Douglas Colin, 3,648,702.
 Bean, Frank R.; and Bean, Dorothy Aday. Word forming game apparatus. 3,655,195, 4-11-72, Cl. 273-135.
 Bean, Roger M., to Sun Oil Company. Oxydehydrogenation process. 3,636,123, 1-18-72, Cl. 260-680.

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 Bean, Stephen, to Autech Corporation. Digital ADF tuning indicator. 3,681,707, 8-1-72, Cl. 331-64.000.
 Beane, David J.; and Gastler, John H., to United Aircraft Corporation. Afterburner combustion apparatus. 3,698,186, 10-17-72, Cl. 60-39.72r.
 Beaney, Peter Austin, to Fosco International Limited. Process for bonding particulate materials. 3,642,503, 2-15-72, Cl. 106-38.35.
 Beans, Allen F.: See—
 Gagliardi, Richard P.; Beans, Allen F.; Eddowes, Alfred M.; and Greenblatt, Herbert, 3,701,153.
 Beanston, Robert A.: See—
 Stefansson, Rafn; and Beanston, Robert A., 3,673,602.
 Bear, David L.: See—
 Porter, Irwin C.; Barcus, Jack L.; Bear, David L.; and Marshall, James E., 3,636,655.
 Bear, Harold F. Tandem wagon axle assembly. 3,632,129, 1-4-72, Cl. 280-109.
 Beard, Albert L.; and Hunter, John C., to Honeywell Information Systems Inc., mesne. Data processing system with program interrupt priority apparatus utilizing working store for multiplexing interrupt requests. 3,665,415, 5-23-72, Cl. 340-172.500.
 Beard, Garry E., to Ford Motor Company. Variable advance engine ignition timing control. 3,638,627, 2-1-72, Cl. 123-117.1.
 Beard, Garry E., to Ford Motor Company. Multi-diaphragm vacuum servo. 3,659,501, 5-2-72, Cl. 92-49.
 Beard, Hoyt S., to Reynolds, R. J., Tobacco Company. Cigarette filter. 3,631,864, 1-4-72, Cl. 131-10.5.
 Beard, Hoyt S., to Reynolds, R. J., Tobacco Company. Smoke filter. 3,631,867, 1-4-72, Cl. 131-261.
 Beard, Hoyt S., to Reynolds, R. J., Tobacco Company. Smoke filter. 3,651,819, 3-28-72, Cl. 131-261.
 Beard Industries, Inc.: See—
 Noyes, Ronald T., 3,636,638.
 Beard, Jack H., to General Motors Corporation. System for calibrated high level current measurement using a magnetic field responsive transistor. 3,693,085, 9-19-72, Cl. 324-117.00h.
 Beard, James D.: See—
 Stephens, Frederick N.; Rowlett, Glenford; and Beard, James D., 3,691,726.
 Beard, John O.: See—
 Minerio, Richard H.; Anello, Anthony J.; Furey, Robert G.; and Palounek, Lubos R., 3,660,646.
 Beard, Kenneth A.; Daykin, Theodore W.; and Jagger, Gordon H., to Ford Motor Company. Windshield wiper motor link depressed park mechanism. 3,665,772, 5-30-72, Cl. 74-75.000.
 Beard, Terry D.; and Garen, Eric R. Stereoscopic television system. 3,697,675, 10-10-72, Cl. 178-6.500.
 Beard, Thomas N., to Shell Oil Company. Method for the recovery of shale oil. 3,666,014, 5-30-72, Cl. 166-271.
 Beard, Walter C. Metering valve for fluid dispenser. 3,658,214, 4-25-72, Cl. 222-402.2.
 Beard, William Q., Jr., to Ethyl Corporation. Oxydehydrogenation of ethane. 3,644,560, 2-22-72, Cl. 260-683.3.
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 Beard, William Q., Jr., to Ethyl Corporation. Ethylene from ethane halogen and hydrogen halide through fluidized catalyst. 3,658,933, 4-25-72, Cl. 260-683.1.
 Beard, William Q., Jr., to Ethyl Corporation. Ethylene from ethane and halogen through fluidized rare earth catalyst. 3,658,934, 4-25-72, Cl. 260-683.3.
 Beard, William Q., Jr., to Ethyl Corporation. Halodehydrogenation catalyst. 3,702,311, 11-7-72, Cl. 252-441.000.
 Bearden, Roby, Jr.: See—
 Cull, Neville L.; Bearden, Roby, Jr.; and Mertzweiller, Joseph K., 3,637,897.
 Cull, Neville L.; Bearden, Roby, Jr.; and Mertzweiller, Joseph K., 3,660,518.
 Bearden, Roby, Jr.; and De Feo, Richard J., Jr., to Esso Research and Engineering Company. Paraxylene recovery with zeolite adsorbent. 3,686,343, 8-22-72, Cl. 260-674.0sa.
 Beardmore, Alfred Cyril; Cooke, Geoffrey Cyril; and Stringer, Donald Charles, to Avery, W. & T., Limited. Mechanical load measuring systems. 3,647,010, 3-7-72, Cl. 177-230.
 Beardmore, Geoffrey; and Evans, Hugh W. Methods of machining. 3,684,678, 8-15-72, Cl. 204-192.000.
 Beardsley, Earl A.; Bowditch, Hoel L.; and Prescott, Robert C., to Foxboro Company, The. Bumpless-transfer control system. 3,680,580, 8-1-72, Cl. 137-86.000.
 Beardsley, Harold H., to Band-It Company. Band buckle, method of making and tool for applying. 3,641,629, 2-15-72, Cl. 24-23.
 Beardsley, Jack M. Artificial stone facing construction and method therefor. 3,683,579, 8-15-72, Cl. 52-311.000.
 Beardsley, Melville W. Impulse turbine propulsion device for marine craft. 3,669,565, 6-13-72, Cl. 416-185.
 Beare, Gene K.; Kopelman, Bernard; and Seeger, Donald E., tosylvania Electric Products, Inc. Indicating flashlamp. 3,676,663, 7-11-72, Cl. 240-1.300.
 Bearfield, Clair A.: See—

Wieland, Roman G.; Weber, A. John; Bearfield, Clair A.; and Cole, Raymond, 3,640,520.
 Bearpark, John Patrick; Pigott, Stanley Wilton; and Llewellyn, Rees Jenkin, to British Insulated Callender's Cables Limited. Manufacture of copper clad aluminium rod. 3,631,586, 1-4-72, Cl. 29-474.3.
 Beasley, Donald L., to Townsend Engineering Company. Hold down attachment for a skinning machine. 3,667,521, 6-6-72, Cl. 146-130.
 Beasley, Donald L., to Townsend Engineering Company. Fattening attachment for skinning machines. 3,674,071, 7-4-72, Cl. 146-130.000.
 Beasley, Donald L., to Townsend Engineering Company. Hand operated fish skinning tool. 3,683,456, 8-15-72, Cl. 107-67.000.
 Beasley, Donald L., to Townsend Engineering Company. Means for injecting fluid into meat products and the like. 3,683,789, 8-15-72, Cl. 99-256.000.
 Beasley, Donald L., to Townsend Engineering Company. Skinning and slashing machine. 3,685,561, 8-22-72, Cl. 146-130.000.
 Beasley French & Company Limited: See—
 Hayes, Bruce Ian, 3,643,557.
 Beasley, George A., to Itek Corporation. Grinding pad. 3,699,721, 10-24-72, Cl. 51-209.0dl.
 Beasley, Jack O.; and Mohary, Paul J., to M & T Chemicals Inc. Current and fluid conducting arrangements. 3,668,506, 6-6-72, Cl. 321-8.00c.
 Beasley, Noel F.: See—
 Handler, Elliot; Beasley, Noel F.; Garcia, Armando J.; and May, Richard L., 3,699,712.
 Beasley, Noel F.; and Weber, Ray, to Mattel, Inc. Telephone-talking doll simulator. 3,702,515, 11-14-72, Cl. 46-232.000.
 Beasley, Robert W., to Nelson, Ted, Company. Adjustable form for casting concrete beams. 3,645,490, 2-29-72, Cl. 249-50.
 Beasley, Silas V.; and Beam, Norman, to McGraw-Edison Company. Commercial waffle baker. 3,696,734, 10-10-72, Cl. 99-331.000.
 Beasley, Tracy Rosser. Combined guitar and banjo. 3,633,452, 1-11-72, Cl. 84-263.
 Beatenbough, Paul K.; and Gardner, John A., Jr., to General Motors Corporation. Bi-directional flow thermostat. 3,658,243, 4-25-72, Cl. 236-34.
 Beatenbough, Paul K.; and Scherer, Carl A., to General Motors Corporation. Automatic expansion valve, in line, piloted. 3,702,066, 11-7-72, Cl. 62-222.000.
 Beathan, Mark A. Handset lifter. 3,662,109, 5-9-72, Cl. 179-1.
 Beaton, John; Edwards, Douglas C.; and Wunder, Richard Helmut, to Polymer Corporation Limited. Reactive polymers and process for the production thereof. 3,639,339, 2-1-72, Cl. 260-47.
 Beaton, John M.; Van Rheenen, Verlan H.; and Parikh, Jekishan R., to Upjohn Company, The. Process for the selective reduction of 6-methylene-3-keto- Δ^4 -steroids. 3,679,715, 7-25-72, Cl. 260-397.100.
 Beaton, Joseph R. Hydraulic boom for earth excavating apparatus. 3,700,126, 10-24-72, Cl. 214-141.000.
 Beaton, Joseph R. Transportable floating birling device with ladder mount. 3,701,527, 10-31-72, Cl. 272-1.00b.
 Beatrice Caramel Apple Co., Inc.: See—
 Raimondi, Vito O.; and Raimondi, William V., 3,660,118.
 Beatrice, Finton J., to United States of America, Navy, mesne. Electronic angle generator. 3,648,041, 3-7-72, Cl. 235-186.
 Beatrice Food Co.: See—
 Brorson, Donald L.; and Magnuson, Raymond A., 3,677,322.
 Beatrice Foods Co.: See—
 Brorson, Donald L.; and Magnuson, Raymond A., 3,679,100.
 Bundus, Robert H.; and Bingham, Robert J., 3,658,551.
 Bundus, Robert H., 3,663,718.
 Groves, Richard N., Jr.; Cain, Robert L.; and Senn, Robert F., 3,683,792.
 Holloway, Milton J., 3,663,236.
 Kasik, Robert L.; and Lukkas, Anthony J., 3,667,968.
 Kasik, Robert L.; and Lukkas, Anthony J., 3,674,508.
 Koziol, Walter, 3,667,648.
 LaWarre, Robert W., 3,664,779.
 Lukkas, Anthony J., 3,689,286.
 Peterson, Marvin A.; and Flint, Gerald A., 3,652,297.
 Young, Edward G.; and Heggem, Howard W., 3,703,739.
 Young, Edward G.; and Heggem, Howard W., 3,703,739.
 Beatrice Foods Co., mesne: See—
 Moran, William F.; and Kyrias, Lucian C., 3,663,267.
 Beatrice Foods Company: See—
 Gore, William C.; and Shapiro, Eugene B., 3,696,639.
 Beatrice Foods Company, mesne: See—
 Harrington, Herbert A.; Allen, William M.; and Kuhn, William C., 3,643,587.
 Beattie, Thomas R.: See—
 Christensen, Burton G.; Beattie, Thomas R.; and Graham, Donald W., 3,657,282.
 Beattie, Willard H.; and Gallaway, William S., to Beckman Instruments, Inc. Apparatus for measuring scattered light. 3,640,627, 2-8-72, Cl. 356-104.
 Beatty, David L. Outdoor speaker enclosure. 3,674,108, 7-4-72, Cl. 181-31.00b.

Beatty, Rex R.: See—
 Ball, John F.; and Beatty, Rex R., 3,651,957.
 Beatty, Robert W.: See—
 United States of America, National Aeronautics and Space Administration, 3,702,979.
 Beatty, Ronald L.: See—
 Beutler, Hans; and Beatty, Ronald L., 3,682,759.
 Beatty, Ronald L.; and Kiplinger, Dale V., to United States of America, Atomic Energy Commission. Pulsed method for impregnation of graphite. 3,664,859, 5-23-72, Cl. 117-46.0cg.
 Beatty, Jeremy: See—
 Lee, Charles Allen; Furbeck, Warren R.; Bartley, Thomas S.; and Beatty, Jeremy, 3,641,627.
 Lee, Charles Allen; Furbeck, Warren R.; Bartley, Thomas S.; and Beatty, Jeremy, 3,682,761.
 Beau, Raymond: See—
 Le Page, Madeleine A.; Beau, Raymond; and Jacques, Maison-Alfort, 3,696,053.
 Beau, Raymond; and Fourniquet, Jean, to Produits Chimiques Pechiney-Saint-Gobain. Agglomerated silica bodies and method. 3,655,580, 4-11-72, Cl. 252-317.
 Beaubien, Laurent A.: See—
 Mast, Phillip W.; and Beaubien, Laurent A., 3,703,012.
 Beaubien, Thomas S., 1/2 to Johnson, Miller C. Whirling toy. 3,703,049, 11-21-72, Cl. 46-47.000.
 Beauchamp, Klaus, to Boehringer Mannheim G.m.b.H. Process for the preparation of creatine phosphate. 3,639,211, 2-1-72, Cl. 195-29.
 Beauchamp, Richard Lawrence, to Bell Telephone Laboratories, Incorporated. Positive electrode for use in nickel cadmium cells and the method for producing same and products utilizing same. 3,653,967, 4-4-72, Cl. 136-75.
 Beauchamp, Robert Owens, Jr.; Ward, John Wesley; and Franko, Bernard Vincent, to Robins, A. H., Company, Incorporated. Dimethylsulfonamide solvent for muscle relaxant drugs. 3,699,230, 10-17-72, Cl. 424-272.000.
 Beauchemin, Marcel, to Sidel, Societe Anonyme. Apparatus for laying down articles on a conveyor. 3,693,777, 9-26-72, Cl. 198-26.000.
 Beauchemin, Norman J.: See—
 Murphy, William M.; and Beauchemin, Norman J., 3,687,730.
 Beaucher, George J., to United States of America, Navy. Quick release mounting apparatus. 3,693,921, 9-26-72, Cl. 248-187.000.
 Beauchet, Jean, to Societe Nouvelle des Roulements. Method for machining bodies of revolution having a circular generatrix. 3,664,067, 5-23-72, Cl. 51-289.
 Beaud, Jean-Louis, to Hasler A.G. Adjusting and controlling reed relays. 3,670,131, 6-13-72, Cl. 219-7.5.
 Beaudette, Charles G.: See—
 Tyler, Victor M., II; Beaudette, Charles G.; and Chertok, Allan B., 3,662,339.
 Beaudoin, Dale A. Container. 3,669,168, 6-13-72, Cl. 150-500.
 Beaudoin, Benoit R.; Cohen, Joseph D.; Jones, David H.; Marier, Lester J., Jr.; and Raab, Harry F., Jr., to United States of America, Atomic Energy Commission, mesne. Light-water breeder reactor. 3,671,392, 6-20-72, Cl. 176-18.000.
 Beaudoin, Jean Paul; Hogue, Hiral; and Larocque, Jacques; deceased (by Larocque, Patricia Powers; executrix). Package tape with sticks retained thereon. 3,695,423, 10-3-72, Cl. 206-56.00a.
 Beaudoin, John F., to Pratt Manufacturing Corporation. Packaged surgical pad having protected wound-contacting surface and method of packaging same. 3,653,502, 4-4-72, Cl. 206-63.2.
 Beaudoin, Laurent; and Richer, Sarto, to Bombardier Limited. Wheel construction. 3,666,323, 5-30-72, Cl. 301-63.
 Beaudoin, Leon. Variable diameter centrifugal pulley with means to vary the mass of the centrifugal weights. 3,659,470, 5-2-72, Cl. 74-230.170.
 Beaudoin, Norman R.; and Lauben, Robert W., to General Electric Company. Current-limiting circuit breaker having a field strap assembly. 3,632,932, 1-4-72, Cl. 200-147.
 Beaudoux, Pierre Emile. Sugar cane sampler. 3,704,627, 12-5-72, Cl. 73-423.00r.
 Beaudry, Harvey James; and Waidtlow, Robert M., to International Plasma Corporation. Polarity control electric power supply circuit. 3,648,059, 3-7-72, Cl. 307-127.
 Beaudry, Harvey James, to International Plasma Corporation. Radio frequency generator circuits and components therefor. 3,648,191, 3-7-72, Cl. 330-192.
 Beaudry, Harvey James, to International Plasma Corporation. Radio frequency wattmeter. 3,678,381, 7-18-72, Cl. 324-95.000.
 Beaulieu, Alexander J.; and Johnson, Derwyn C., to Canada, Her Majesty the Queen of, as represented by the Minister of National Defence. Capacitor laser. 3,696,307, 10-3-72, Cl. 331-94.500.
 Beaulieu, Alexandre J.; and Laflamme, Albert, to Canada, Her Majesty the Queen of, as represented by the Minister of National Defence. Double discharge laser. 3,662,284, 5-9-72, Cl. 331-94.5.
 Beaulieu, Raymond D., to Monsanto Company. Sulfonated phenol-aldehyde resins. 3,677,979, 7-18-72, Cl. 260-2.20c.
 Beaulieu, Raymond D., to Monsanto Company. Process for making methylolated phenol-sulfonic acid. 3,678,101, 7-18-72, Cl. 260-572.00r.

- Beauloye, Ronald A. Facing and deburring handtool. 3,661,472, 5-9-72, Cl. 408-231.000.
- Beaumont, Jacques: *See—*
Barbarin, Jean-Francois; and Beaumont, Jacques, 3,704,021.
- Beaumont, Alan. Tape cartridge including direct viewing of cue indicia. 3,672,604, 6-27-72, Cl. 242-199.000.
- Beaumont Birch Company: *See—*
Reiner, Joel Russell; Preusch, William J.; and Davenport, William G., 3,640,233.
Reiner, Joel Russell; Preusch, William J.; and Davenport, William G., 3,707,130.
- Beaumont, Georges. Periodic gas generator. 3,683,951, 8-15-72, Cl. 137-81.500.
- Beaumont, Richard W.: *See—*
Desmarais, Joseph C. B.; and Beaumont, Richard W., 3,650,346.
- Beaumont, Richard W. Rock drill. 3,666,024, 5-30-72, Cl. 173-105.
- Beaumont, Warren L.; and Cusano, Michael Richard, to Proctor Chemical Company, Inc., mesne. Metal acetate-acidic catalyst system for cellulosic fabric treatment. 3,634,019, 1-11-72, Cl. 8-116.3.
- Beaunit Corporation: *See—*
Dale, Edwin L., 3,702,231.
Jayne, Clarence V.; Ragep, Gazie K.; and Templeton, James D., 3,702,260.
- Beauregard, Paul E. Compartment for trailer. 3,652,122, 3-28-72, Cl. 296-23.
- Beausoleil, William F., to International Business Machines Corporation. Memory with reconfiguration to avoid uncorrectable errors. 3,644,902, 2-22-72, Cl. 340-173.
- Beausoleil, William F., to International Business Machines Corporation. High speed associative memory. 3,648,254, 3-7-72, Cl. 340-172.5.
- Beausoleil, William F.; Ordemann, Fred A., Jr.; Pricer, Wilbur D.; and Vogl, Norbert G., Jr., to International Business Machines Corporation. Auxiliary storage apparatus. 3,648,255, 3-7-72, Cl. 340-172.5.
- Beausoleil, William F., to International Business Machines Corporation. Auxiliary storage apparatus with continuous data transfer. 3,654,622, 4-4-72, Cl. 340-172.5.
- Beausoleil, William F.; Brown, David T.; and Walker, Ernest L., to International Business Machines Corporation. Dynamically ordered magnetic bubble shift register memory. 3,670,313, 6-13-72, Cl. 340-174.0tf.
- Beausoleil, William F.; Ho, Irving T.; Jen, Teh-Sen; and Pricer, W. David, to International Business Machines Corporation. Two device monolithic bipolar memory array. 3,697,962, 10-10-72, Cl. 340-173.00r.
- Beausoleil, William F.; Brown, David T.; and Clark, William A., to International Business Machines Corporation. Shift register storage unit. 3,704,452, 11-28-72, Cl. 340-172.500.
- Beautiline Limited: *See—*
Reilly, Frederick W., 3,645,569.
Reilly, Frederick William, 3,666,298.
- Beautiline Showcase Systems: *See—*
Frank, Peter M.; and Watts, Frank M., 3,668,830.
- Beaver, Bud K.; and Zakarian, A. David. Spark plug cleaning devices. 3,704,552, 12-5-72, Cl. 51-9.000.
- Beaver, David J.: *See—*
Stoffel, Paul J.; and Beaver, David J., 3,697,252.
- Beaver, Donald V.: *See—*
Harris, Everett K.; and Beaver, Donald V., 3,648,849.
- Beaver, Donald V., to All-Steel Equipment Inc. Sandwich top construction for office furniture. 3,676,279, 7-11-72, Cl. 161-44.000.
- Beaver, Murray W., to Technicon Corporation. Method and apparatus for the highly accurate, automatic determination of the hematocrit of whole blood samples. 3,648,160, 3-7-72, Cl. 324-30.
- Beaver, Phillip R.; and Geddes, James C., Jr., to Ethyl Corporation. Preparation of dihydrocarbyl aluminum halides and dihydrocarbyl aluminum alkoxides. 3,657,300, 4-18-72, Cl. 260-448.
- Beaver Precision Products, Inc.: *See—*
Doran, Leo F.; and Schlenker, Theodore R., 3,673,817.
Newman, William G., 3,642,330.
- Beaver, Robert D., to Koontz Machine & Welding, Inc. Hydraulically operated winch. 3,698,690, 10-17-72, Cl. 254-186.000.
- Beaver-Advance Corporation: *See—*
Gorgei, Donald J.; Weisz, Daniel I.; and Cooper, Russell B., 3,656,607.
- Beavers, Dorothy J.: *See—*
Gates, John W., Jr.; Wise, Albert W.; Beavers, Dorothy J.; and Miller, Paul E., 3,641,046.
Gates, John W., Jr.; and Beavers, Dorothy J., 3,650,760.
- Beavers, Dorothy J.; Staudenmayer, William J.; and Perry, Edmond S., to Eastman Kodak Company. Photographic diffusion transfer product and process. 3,632,338, 1-4-72, Cl. 96-29.
- Beavers, J. W. Spare tire carrier. 3,648,867, 3-14-72, Cl. 214-454.
- Beaverton, Daniel H.; Hall, Richard H.; and Lange, Clarence E. Removal of organic vapors from gas. 3,686,827, 8-29-72, Cl. 55-74.000.
- Beavitt, Alan Robert, to Square D Company, mesne. Reed switches. 3,665,349, 5-23-72, Cl. 335-154.
- Beavon, David K., to Parsons, Ralph M., Company, The. Process for removal of hydrogen sulfide from gas streams. 3,642,448, 2-15-72, Cl. 23-225.
- Beazley, Rodney Thomas: *See—*
Cacciabue, Antonio; and Beazley, Rodney Thomas, 3,666,170.
- Bebben, Charles J., Jr., to Narda Microwave Corporation, The. High frequency coupling device. 3,660,804, 5-2-72, Cl. 339-177.
- Bebenburg, Walter V.; and Thiele, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Indanyl or tetralyl amino substituted aminopyridines. 3,681,366, 8-1-72, Cl. 260-295.50b.
- Bebinger, Jack E., to Westinghouse Electric Corporation. Rapid mounting system for good waste disposer. 3,684,199, 8-15-72, Cl. 241-100.500.
- Bebinger, Jack E., to Westinghouse Electric Corporation. Hopper assembly for batch disposer. 3,695,519, 10-3-72, Cl. 241-46.00b.
- Bebo, Vernon H. Link chain detacher. 3,668,767, 6-13-72, Cl. 29-283.
- Becca, Dante. Garment hanger. 3,692,216, 9-19-72, Cl. 223-91.000.
- Becchi, Raffaele, to Olivetti, Ing. C., & C., S.p.A. Printing device with interchangeable printing members. 3,651,916, 3-28-72, Cl. 197-54.
- Becchi S.p.A.: *See—*
Mazza, Lamberto, 3,659,580.
- Beccone, John Peter; Kurokawa, Kaneyuki; and Schlosser, Wolfgang Otto, to Bell Telephone Laboratories, Incorporated. Multiphase digital modulator. 3,656,069, 4-11-72, Cl. 332-16.
- Beccu, Klaus, to Battelle Memorial Institute. Accumulator electrode with capacity for storing hydrogen and method of manufacturing said electrode. 3,669,745, 6-13-72, Cl. 136-20.
- Bechard, Emile; and Maurey, Veuve. Vaporization apparatus having rotatable hub and tubular members for the passage of distilland. 3,649,468, 3-14-72, Cl. 202-235.
- Becher, Elisabeth; Els, Hans; and Schocher, Arno Johannes, to Hoffmann-La Roche Inc. Spirostan derivative. 3,634,461, 1-11-72, Cl. 260-345.7.
- Becher, Heinz-Manfred; and Schring, Richard, to Boehringer Ingelheim G.m.b.H. Novel O-(2-alkyl-4,6-dinitro-phenyl)-O'-(α -carbal-koxyl-alkyl)-carbonates. 3,655,717, 4-11-72, Cl. 260-463.
- Becher, Hermann: *See—*
Hans, Rainer; Lancier, Michael; and Becher, Hermann, 3,648,518.
- Becher, Jan; and Ullman, Edwin F., to Synvar Associates. Free radical pH indicators. 3,706,537, 12-19-72, Cl. 23-230.00r.
- Bechet, Louis; and Bertholon, Claude, to Compagnie Generale d'Electricite. Control means for an AC-DC or DC-AC energy converter for carrying direct current energy. 3,648,148, 3-7-72, Cl. 321-5.
- Bechi, Rene, to Societe des Grands Travaux de Marseille. Stepwise-operating power apparatus. 3,653,634, 4-4-72, Cl. 254-29.
- Bechler, Andre. Bar feed for automatic lathe. 3,696,696, 10-10-72, Cl. 82-50.
- Bechman, William H.; Lott, Walter E.; and Siewert, John F., to Westinghouse Air Brake Company. Lift and lock structure for scraper blade assembly. 3,660,914, 5-9-72, Cl. 37-129.
- Bechmann, Gerhart, to Leitz, Ernst, G.m.b.H. Lens mount. 3,677,155, 7-18-72, Cl. 95-44.00c.
- Becht, Guenter; Kunde, Joachim; La France, Norman; and Mueller, Karl Robert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Differential-dyeing textiles. 3,707,344, 12-26-72, Cl. 8-21.00b.
- Becht, Raymond F. Plastic bag dispenser. 3,702,672, 11-14-72, Cl. 225-106.000.
- Bechtel International Corporation: *See—*
Ellers, Frederick S.; Small, Sam W.; and Serpas, Luis B., 3,674,062.
Goertz, David J., Jr.; and Stephansen, Erik W., 3,678,594.
Neville, Roy G., 3,663,625.
Ragsdale, Harold E., 3,678,950.
Stephansen, Erik W., 3,672,066.
Wasp, Edward J., 3,637,263.
- Bechtel International Corporation, mesne: *See—*
Inamdar, Sayed-Ibrahim S., 3,696,367.
- Bechtel, John D.: *See—*
Szumila, Anthony D.; Zimnoch, Joseph J.; Bechtel, John D.; and Steinberg, Harvey M., 3,671,865.
- Bechtold, Horst; Dittmar, Heinz; Heinz, Ernst; and Rennhack, Rolf, to Metallgesellschaft Aktiengesellschaft. Method of and apparatus for the direct heating of fluidized-bed and vortex-layer reactors. 3,633,887, 1-11-72, Cl. 263-21.
- Bechtler, Gunter: *See—*
Netheler, Heinrich; Bechtler, Gunter; and Bergmann, Wilhelm, 3,644,095.
- Bechtold, Charles L.: *See—*
Austin, Amory Earl; and Bechtold, Charles L., 3,701,736.
- Bechtold, George W.; Derr, Vernon F.; and Wiltse, James C., to United States of America, Army. Method and apparatus for generating third harmonic signals. 3,699,353, 10-17-72, Cl. 307-88.300.

- Bechtold, Max F., to Du Pont de Nemours, E. I., and Company. Hexa(alkoxymethyl)melamine-modified hydroxylated fluoropolymer coating compositions and processes. 3,651,003, 3-21-72, Cl. 260-31.2.
- Bechtold, Max F., to Du Pont de Nemours, E. I., and Company. Power fluids for Rankine cycle engines. 3,702,534, 11-14-72, Cl. 60-36.000.
- Bechtold, Max Fredrick; and Tullock, Charles William, to Du Pont de Nemours, E. I., and Company. Power generation with rankine cycle engines using alkylated adamantanes as a working fluid. 3,648,456, 3-14-72, Cl. 60-36.
- Beck, Alfred B., to TRW Inc. Three-port quadrature hybrids. 3,691,485, 9-12-72, Cl. 333-11.000.
- Beck, Alfred B., to TRW Inc. Impedance transforming binary hybrid trees. 3,697,895, 10-10-72, Cl. 333-8.000.
- Beck, Carl A., to PPG Industries, Inc. Method for wrapping molded pipe insulation. 3,658,614, 4-25-72, Cl. 156-187.
- Beck, Charles H.; and Meyers, William F., to Honeywell Inc. DC voltage multiplier. 3,646,425, 2-29-72, Cl. 321-15.
- Beck, Charles I.: *See—*
Cummisford, Patricia D.; and Beck, Charles I., 3,703,379.
- Beck, Charles, Machine Corporation: *See—*
Switliski, Vincent S.; and Harmon, Arthur R., 3,694,999.
- Beck, Christian A.: *See—*
Schrempp, Ernst; and Beck, Christian A., 3,637,201.
Schrempp, Ernst; and Beck, Christian A., 3,704,686.
- Beck, Christian A., to Pitney-Bowes, Inc. Copy sheet handling apparatus for electrostatic office copiers. 3,640,523, 2-8-72, Cl. 271-28.
- Beck, Christian A.; and Luperti, Harry E., to Pitney-Bowes, Inc. Tape printing and handling system. 3,660,203, 5-2-72, Cl. 156-384.
- Beck, Cyrus, to United States of America, Navy. Real time image contrast and edge sharpness enhancing apparatus. 3,641,268, 2-8-72, Cl. 178-7.3.
- Beck, David F.: *See—*
Breton, Roger J.; and Beck, David F., 3,682,092.
- Beck, Dr., & Co., A.G.: *See—*
Schmidt, Karl; and Boockmann, Gerhard, 3,642,724.
- Beck, Dr., & Co., GmbH: *See—*
Schmidt, Karl; Hansch, Ferdinand; Rombrecht, Hans-Malte; and Beck, Hans-Joachim, 3,697,471.
- Beck, Earl J., Jr., to United States of America, Navy. Dredging method employing injection and suction nozzles. 3,646,694, 3-7-72, Cl. 37-195.
- Beck, Earl J., Jr., to United States of America, Navy. Method and apparatus for rock excavation. 3,704,966, 12-5-72, Cl. 417-490.000.
- Beck, Edward: *See—*
Bedo, Alfred; and Beck, Edward, 3,679,169.
- Beck, Edward G., Jr., to Stolle Corporation, The. Flat sheet of metal having an elongated member secured thereto. 3,698,475, 10-17-72, Cl. 165-171.000.
- Beck, Edward G., Jr., to Airtex Corporation, mesne. Apparatus for securing an elongated metal member to a flat metal sheet. 3,703,758, 11-28-72, Cl. 29-202.000.
- Beck, Emanuel A.; and Bassnett, Arthur J., to United States of America, Navy. Coherent frequency multiplier and encoder. 3,706,928, 12-19-72, Cl. 325-33.000.
- Beck, Erich, to Ingenieurbureau Dr. Brehm AG. Method and apparatus for maintaining constant the level of filling in a charging container arranged before a consuming device for pourable material, especially plastic granulate. 3,659,748, 5-2-72, Cl. 222-56.00.
- Beck, Erich; and Schulz, Heinrich. Method and device for converting thermoplastic foil waste to a flowable granular material. 3,685,748, 8-22-72, Cl. 241-41.000.
- Beck, Erich, to Ingenieurbureau Dr. Brehm AG. Method of, and apparatus for, spiral air classification of solid particles in a gaseous carrier. 3,693,791, 9-26-72, Cl. 209-144.000.
- Beck, Eugene E. Essential oil composition and method of preparing the same. 3,704,137, 11-28-72, Cl. 99-140.00r.
- Beck, Eugene F. Wheeled vehicle including hydraulic leveling system. 3,680,878, 8-1-72, Cl. 280-6.00b.
- Beck, Eugene F. Hydraulic system. 3,699,676, 10-24-72, Cl. 60-52.00s.
- Beck, Forrest E.: *See—*
Kelly, Jerry D.; and Beck, Forrest E., 3,664,962.
- Beck, Fred R.; Fanella, Robert J.; and Gioia, Norman F., to Ampex Corporation. Tape reel and tape threading system. 3,640,483, 2-8-72, Cl. 242-74.1.
- Beck, Fritz; Guthke, Harald; and Leitner, Hans, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of adiponitrile. 3,642,592, 2-15-72, Cl. 204-73.
- Beck, Fritz; Himmele, Walter; Haufe, Juergen; and Brunold, Andreas, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Electrolytic condensation of carboxylic acids. 3,652,430, 3-28-72, Cl. 204-72.
- Beck, Fritz; and Csizi, Gotthard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of electrodes. 3,672,990, 6-27-72, Cl. 117-230.000.
- Beck, George R. Ornamental scarf clip. 3,639,949, 2-8-72, Cl. 24-49.0.
- Beck, Gilbert: *See—*
Trieschmann, Hans-Georg; Pfannmueller, Helmut; Gropper, Hans; Gierth, Volker; and Beck, Gilbert, 3,664,988.
- Beck, Gunther; and Holtschmidt, Hans, to Farbenfabriken Bayer Aktiengesellschaft. 4,5,6-Trichloro-2-chlorocarbonyl-pyrimidine. 3,637,694, 1-25-72, Cl. 260-251.
- Beck, Hans-Joachim: *See—*
Schmidt, Karl; Hansch, Ferdinand; Rombrecht, Hans-Malte; and Beck, Hans-Joachim, 3,697,471.
- Beck, Hansludwig: *See—*
Brandenburg, Helmut; and Beck, Hansludwig, 3,676,268.
- Beck, Hansludwig; and Brandenburg, Helmut, to Gebr. Eickhoff, Maschinenfabrik und Eisengieserei m.b.H. Glue applicator for corrugated paper machine. 3,688,736, 9-5-72, Cl. 118-221.000.
- Beck, Harold & Sons, Inc.: *See—*
Johnson, Robert M., 3,667,578.
- Beck, Heine-Jurgen: *See—*
Schacher, Willi; and Beck, Heine-Jurgen, 3,683,618.
- Beck, Herbert P., to Allegheny Ludlum Steel Corporation. Reciprocating grinders. 3,643,045, 2-15-72, Cl. 200-47.
- Beck, Jacob C., to Safety Devices, Inc. Safety apparatus. 3,672,466, 6-27-72, Cl. 182-3.000.
- Beck, Jacob Howard, to BTU Engineering Corporation. Movable hearth furnace. 3,633,885, 1-11-72, Cl. 263-6.
- Beck, James R., to Lilly, Eli, and Company. N-Alkoxyalkyldenesulfonamide compounds. 3,681,406, 8-1-72, Cl. 260-397.700.
- Beck, Joseph H., to Video Information Systems, Inc. Interrogated transponder system. 3,676,580, 7-11-72, Cl. 178-5.100.
- Beck, Louis. Airless spray gun extension. 3,700,174, 10-24-72, Cl. 239-526.000.
- Beck, Manfred: *See—*
Sutter, Hubert; and Beck, Manfred, 3,703,567.
- Beck, Marvin G.: *See—*
Woods, John A.; and Beck, Marvin G., 3,678,529.
- Beck, Maurice E., to Kunkle Valve Company Inc. Mechanism for cutting threads using a tape controlled automatic machine. 3,651,722, 3-28-72, Cl. 82-5.
- Beck, Maurice Sidney, to National Research Development Corporation. Measurement of the flow of particulate material. 3,636,763, 1-25-72, Cl. 73-194.
- Beck, Merrill G., to Lord Corporation. Composite leaf spring. 3,698,702, 10-17-72, Cl. 267-47.000.
- Beck, Merrill G., to Lord Corporation. Axial suspension system that accommodate relative lateral movement. 3,677,535, 7-18-72, Cl. 267-63.000.
- Beck, Nicholas R.: *See—*
Hale, Douglas; Manuel, James C.; and Beck, Nicholas R., 3,704,135.
- Beck, Norman A., to Koppers Company, Inc. Marking device with selective marking wheels adjacent a punch member. 3,633,498, 1-11-72, Cl. 101-79.
- Beck, Otto; and Spalding, Georg, to Hesser, Fr., Maschinenfabrik, A.G. Drive for a moving welding apparatus. 3,700,854, 10-24-72, Cl. 219-243.000.
- Beck, Peter J.: *See—*
Stone, Joseph K.; Beck, Peter J.; and Prince, Edward J., 3,666,445.
- Beck, Richard, Jr.; Gravelle, Homer E.; and Ferguson, James A., to Sundstrand Corporation. Centrifugal pump. 3,639,073, 2-1-72, Cl. 415-109.
- Beck, Robert Haun, to Du Pont de Nemours, E. I., and Company. Floating film photographic developing apparatus. 3,635,144, 1-18-72, Cl. 95-89.
- Beck, Roderick Gerald; Parks, Lyle Homer; and Shatila, Mounir Ahmad. Dehydrated potato processes and products. 3,634,105, 1-11-72, Cl. 99-207.
- Beck, Roland D., to International Telephone and Telegraph Corporation. Positioning device. 3,656,082, 4-11-72, Cl. 337-366.
- Beck, Roland D., to International Telephone and Telegraph Corporation. Sensitive high capacity room thermostat. 3,663,916, 5-16-72, Cl. 337-346.000.
- Beck, Thomas F.: *See—*
Acre, Thomas R.; Gimbel, Frederick M.; Ramachandran, Sundaresan; and Beck, Thomas F., 3,645,520.
- Beck, Walter: *See—*
Osberg, Edward V.; and Beck, Walter, 3,699,173.
- Beck, William: *See—*
Wakefield, Norman; Alexander, Stuart John; Morrish, James Francis Gerrards Cross; Beck, William; Groves, Raymond Sturgis; and Harvey, Michael J., 3,678,644.
Wakefield, Norman; Alexander, Stuart; Morrish, James Francis; Beck, William; Groves, Raymond Sturgis; and Harvey, Michel J., 3,693,930.
- Beck, William F.: *See—*
Mesiah, Raymond N.; Beck, William F.; and Goldstein, David, 3,705,019.
- Beck, William P.: *See—*
Jackson, Wilbur C.; and Beck, William P., 3,639,984.
- Becke, Friedrich: *See—*

- Fischer, Adolf; Becke, Friedrich; and Kohlaupt, Reinhold, 3,634,452.
 Fischer, Adolf; Becke, Friedrich; and Kohlaupt, Reinhold, 3,704,310.
 Hagen, Helmut; and Becke, Friedrich, 3,671,522.
 Hagen, Helmut; and Becke, Friedrich, 3,681,379.
 Becke, Friedrich; Fuchs, Friedrich; Kohlaupt, Reinhold; Sander, Bruno; and Thewis, Josef, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. (β -Carbamyl- β -hydroxyethyl-alkylammonium salts. 3,632,623, 1-4-72, Cl. 260-459.
 Becke, Friedrich; and Sander, Bruno, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. β -Aziridinylactamides and their production. 3,634,398, 1-11-72, Cl. 260-239.
 Becke, Friedrich; and Hagen, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of aromatic dithiocarboxylic acids. 3,636,089, 1-18-72, Cl. 260-502.6.
 Becke, Friedrich; and Hagen, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 3-chloro-1,2-benzisothiazoles. 3,655,686, 4-11-72, Cl. 260-304.
 Becke, Friedrich; Fischer, Adolf; Hagen, Helmut; and Scheuerer, Guenter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Substituted tetrachlorobenzenes. 3,668,260, 6-6-72, Cl. 260-611.00a.
 Becke, Friedrich; and Hagen, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 1,2-benzisothiazoles. 3,682,941, 8-8-72, Cl. 260-304.000.
 Becke, Friedrich; Fischer, Adolf; and Hagen, Helmut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Benzoisothiazole herbicides. 3,707,364, 12-26-72, Cl. 71-90.000.
 Becke, Friedrich B., to Badische Maschinenfabrik GmbH. Automatic molding plant with vertically spaced conveying paths. 3,682,236, 8-8-72, Cl. 164-324.000.
 Becke, Hans W.; Cave, Eric F.; and Stalnitz, Daniel, to RCA Corporation. High power high frequency device. 3,659,334, 5-2-72, Cl. 29-580.
 Beckenbach, Karl. Inclined kiln for the firing and sintering of material and a method for operating said kiln. 3,658,308, 4-25-72, Cl. 263-29.
 Beckenbach, Karl. Method and means for sintering materials, particularly dolomite and magnesite, in a shaft furnace. 3,695,595, 10-3-72, Cl. 263-29.000.
 Becker, Albert H.; Hart, Joseph M.; and Quaal, John A., to Cutler-Hammer, Inc. Auxiliary switch for an electromagnetic relay. 3,680,016, 7-25-72, Cl. 335-106.000.
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 Becker, Dietrich: See—
 Thiele, Heinz; and Becker, Dietrich, 3,661,448.
 Thiele, Heinz; Franke, Konrad; and Becker, Dietrich, 3,667,836.
 Thiele, Heinz; Becker, Dietrich; Hochstein, Roland; Rockstroh, Horst; and Lieckfeldt, Hans, 3,701,309.
 Becker Drilling (Alberta) Ltd.: See—
 Sandquist, Alvin V.; and Becker, Floyd Walter, 3,638,970.
 Becker Drills Limited: See—
 Sandquist, Alvin V., 3,638,989.
 Becker, Ernst: See—
 Marx, Matthias; Becker, Ernst; and Spoor, Herbert, 3,703,596.
 Becker, Ernst; and Notz, Karl. Apparatus for joint control of a clutch and electrical switches. 3,672,316, 6-27-72, Cl. 112-219.00a.
 Becker, Erwin: See—
 Hackenberg, Hubert; Zobel, Siegfried; Spinnler, Rainer; Becker, Erwin; and Engelsmann, Dieter, 3,633,477.
 Weber, Klaus; Becker, Erwin; and Grosstuck, Werner, 3,668,080.
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 Becker, James H.: See—
 Haas, Werner E. L.; Adams, James E.; Becker, James H.; and Wysocki, Joseph J., 3,655,971.
 Wysocki, Joseph J.; Adams, James E.; Becker, James H.; Madrid, Robert W.; and Haas, Werner E. L., 3,652,148.
 Wysocki, Joseph J.; Adams, James E.; Becker, James H.; Madrid, Robert W.; and Haas, Werner E. L., 3,707,322.
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 Becker, John E., to Motorola, Inc. Protection circuit for an amplifier. 3,671,878, 6-20-72, Cl. 330-207.00p.
 Becker, Joseph Gerald: See—
 Grand, Paul Sheldon; and Becker, Joseph Gerald, 3,639,570.
 Becker, Joseph J., to General Electric Company. Method for improving the effectiveness of a magnetic field for magnetizing permanent magnets. 3,639,182, 2-1-72, Cl. 148-103.
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 Becker, Marvin; and Belmuth, Harold. Girdle gripping surface. 3,638,658, 2-1-72, Cl. 128-535.
 Becker, Matthews L.; and Chapman, Robert F., to Atlantic Richfield Company. Alkylation catalyst complex, its preparation and use. 3,657,148, 4-18-72, Cl. 252-429.
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 Becker, Otto Alfred. Wall units with insulation. 3,646,721, 3-7-72, Cl. 52-618.
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 Becker, Richard B.; and Chapan, Clarence C. Silencer. 3,704,763, 12-5-72, Cl. 181-47.00b.
 Becker, Robert A.: See—
 Byers, Charles A.; and Becker, Robert A., 3,639,821.
 Becker, Rudolf: See—
 Linde, Gerhard; Scholz, Walter; and Becker, Rudolf, 3,649,558.
 Becker, Rudolf, to Linde Aktiengesellschaft. Process of separating air into an oxygen-rich fraction suitable for blast furnace operation. 3,699,695, 10-24-72, Cl. 62-13.000.
 Becker, Stephen A.: See—
 Karklys, Joseph; and Becker, Stephen A., 3,688,170.
 Becker, Stephen A.; and Knoop, Donald E., to Whirlpool Corporation. Heating system control. 3,665,159, 5-23-72, Cl. 219-497.000.
 Becker, Warren E.: See—
 Kobetz, Paul; and Becker, Warren E., 3,687,994.
 Kobetz, Paul; Becker, Warren E.; and Giraitis, Albert P., 3,705,051.

- Nelson, Gunner E.; Becker, Warren E.; and Kobetz, Paul, 3,651,064.
 Becker, Werner: See—
 Schobel, Karl; and Becker, Werner, 3,665,147.
 Schrotz, Kurt; and Becker, Werner, 3,674,609.
 Becker, Werner; and Horneff, Hans, to Fernseh G.m.b.H. Method and system for correcting color errors in the television scanning of color films. 3,637,920, 1-25-72, Cl. 178-5.2.
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 Becker, Willi, to Pfeiffer, Arthur, Hochvakuumtechnik GmbH. Rotary molecular vacuum pump. 3,666,374, 5-30-72, Cl. 415-100.000.
 Beckerer, Frank S. Attachable prefabricated hatch. 3,665,661, 5-30-72, Cl. 52-19.
 Beckerer, Frank S. Sealed plunger-type pump. 3,669,575, 6-13-72, Cl. 417-555.
 Beckerle, Wilhelm-Friedrich: See—
 Reinhard, Hans; Petri, Rolf; and Beckerle, Wilhelm-Friedrich, 3,640,912.
 Beckers, Hans, to Hamac-Hansella GmbH. Method of making composite packages. 3,654,746, 4-11-72, Cl. 53-37.
 Beckers, Hans, to Hamac-Hansella GmbH. Container. 3,688,939, 9-5-72, Cl. 220-9.00r.
 Beckers, Heinrich: See—
 Blattry, Johann; and Beckers, Heinrich, 3,704,022.
 Beckers, Norman L., to Diamond Shamrock Corporation. Stabilization of chlorinated hydrocarbons. 3,682,830, 8-8-72, Cl. 252-171.000.
 Beckert, Adolf F., to Honeywell Inc. Plate heater. 3,660,636, 5-2-72, Cl. 219-388.000.
 Beckett, William J.: See—
 North, William L.; and Beckett, William J., 3,679,106.
 Beckh, Horst: See—
 Fritz, Robert; Beckh, Horst; and Torggler, Norbert, 3,636,267.
 Beckham, Leland J., to Allied Chemical Corporation. Solvent extraction process for separating ionic compounds. 3,635,661, 1-18-72, Cl. 23-107.
 Beckham, Leland J., to Allied Chemical Corporation. Method for the recovery of caprolactam. 3,694,433, 9-26-72, Cl. 260-239.30a.
 Beckham, Robert R.; Walters, Emmett L.; Brown, Jack G.; De Rose, Kenneth M.; and Ryan, Joseph D., to Libbey-Owens-Ford Company. Filming apparatus. 3,673,981, 7-4-72, Cl. 118-6.
 Beckham, Robinson, to BDH Pharmaceuticals Limited. Package for dosage units. 3,677,397, 7-18-72, Cl. 206-42.000.
 Becking, Donald H.: See—
 Clauss, Richard J.; Tremmel, Robert; and Becking, Donald H., 3,703,448.
 Becking, Donald H., to Udylyte Corporation, The. Composition and process for chromium plating. 3,694,328, 9-26-72, Cl. 204-51.000.
 Becking, Paul E., to Data-Link Corporation. Hi-speed winder. 3,661,338, 5-9-72, Cl. 242-67.1.
 Beckley, Addison S., to Uniroyal, Inc. Motor vehicle injury and damage prevention system. 3,702,711, 11-14-72, Cl. 296-31.00p.
 Beckley, Gary H.: See—
 Davin, Donald R.; and Beckley, Gary H., 3,700,288.
 Becklin, Dennis M., to Crate-Rite, Incorporated. Portable equipment case. 3,655,215, 4-11-72, Cl. 280-79.2.
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 Beckman, Bengt Erling. Electric incandescent lamp simulating a candle flame. 3,648,095, 3-7-72, Cl. 313-317.
 Beckman, Eugene B.: See—
 Costello, Raymond M.; and Beckman, Eugene B., 3,640,250.
 Beckman, Hubert J.: See—
 Schmidt, Robert L.; and Beckman, Hubert J., 3,692,620.
 Beckman Instruments G.m.b.H.: See—
 Buchta, Eberhard, 3,694,624.
 Beckman Instruments, Inc.: See—
 Aday, Roy W., Jr.; and Lu, Maoyeh, 3,663,097.
 Akeley, Lloyd T., 3,680,387.
 Akeley, Lloyd T., 3,683,968.
 Akeley, Lloyd T., 3,691,842.
 Beattie, Willard H.; and Gallaway, William S., 3,640,627.
 Blum, Michael J., 3,688,190.
 Boronkay, Attila D., 3,665,215.
 Boyd, William R.; and Franklin, Robert C., 3,636,545.
 Boyd, William Richard; and Franklin, Robert C., 3,667,063.
 Carter, Dale K.; and Ronkes, Carol H., 3,704,953.
 Cederstrand, Carl N.; and Dodson, Michael, 3,648,162.
 Coelho, Norman C.; and Thompson, Brian, 3,668,935.
 Cosgrove, Richard E.; Krull, Irwin H.; and Mask, Charles A., 3,706,649.
 Deuringer, Rudolf; Ray, Robert A.; and Sternberg, James C., 3,701,716.
 Ehret, Robert J., 3,697,820.
 Erbach, Arthur R.; and Kupferschmidt, Albert, 3,646,569.
 Fowler, Leslie E., 3,683,410.
 Franz, John J., Jr., 3,654,581.
 Gamache, Larry D.; Miller, Christopher F.; and Barr, Kenneth W., 3,638,189.
 Gilbert, Paul T., 3,635,075.
 Gomez, Ray J.; and Sawa, Kenneth B., 3,674,153.
 Greene, Malbone W., 3,663,409.
 Griffith, Paul A.; and Rohrer, David A., 3,695,813.
 Harman, John N., III; and Neti, Radhakrishna M., 3,652,227.
 Harman, John N., III; and Neti, Radhakrishna M., 3,677,708.
 Holybee, Leslie D.; Faigh, Henry; and Samuels, Robert B., 3,645,698.
 Jerrold-Jones, Paul, 3,685,006.
 Lu, Maoyeh; and Van Slooten, Nico J., 3,680,843.
 Marovich, Frank A.; and Wilson, Ray I., 3,655,546.
 McNeal, Jack D., 3,668,299.
 Miller, Curtis E., 3,692,997.
 Neti, Radhakrishna M.; and Bing, Colin C., 3,692,485.
 Petersen, Arne J.; and Matsuyama, George, 3,649,506.
 Pittman, Cornelius P., 3,638,044.
 Reinhard, Clyde J.; and Miller, Donald D., 3,656,065.
 Rochte, Jerry E.; Martin, Donald N.; Hoffa, Jack L.; and Moore, George V., 3,645,690.
 Sawa, Kenneth B.; and Bleak, Thomas M., 3,678,247.
 Sawa, Kenneth B.; and Neti, Radhakrishna M., 3,686,091.
 Sharples, Thomas D., 3,663,109.
 Shifrin, Norman, 3,689,158.
 Soumas, Charles A.; and Spontak, David J., 3,634,669.
 Spyropoulos, Constantine G., 3,695,772.
 Stahl, Lawrence E.; and Gropper, Lee, 3,699,287.
 Sternberg, James C., 3,692,483.
 Strickler, Allen; and Beebe, Cedric H., 3,649,505.
 Strickler, Allen, 3,655,541.
 Strickler, Allen, 3,661,724.
 Strickler, Allen, 3,663,395.
 Van Slooten, Nico J., 3,655,020.
 Watanabe, Hideo; and Leonard, John E., 3,635,212.
 West, Charles David, 3,655,958.
 Beckman Instruments, Inc., mesne: See—
 Scherzer, Walter O.; and Thomas, Edward W., 3,663,816.
 Beckman Instruments, Ltd.: See—
 Crowe, James A.; and Krattenmacher, Willi, 3,683,977.
 Scott, William Anthony, 3,685,885.
 Beckman, Joseph A.: See—
 Kay, Edward L.; and Beckman, Joseph A., 3,655,599.
 Lohr, Delmar Frederick, Jr.; Crane, Grant; and Beckman, Joseph A., 3,686,345.
 Beckman, Joseph A.; Hunt, Jerry Donald; and Kay, Edward Leo, to Firestone Tire & Rubber Company, The. Butadiene-styrene copolymers stabilized with metal oxides. 3,649,587, 3-14-72, Cl. 260-33.6.
 Beckman, Joseph A., to Firestone Tire & Rubber Company, The. Disubstituted ureas and thioureas as stabilizers for oil-extended unvulcanized butadiene-styrene copolymers. 3,654,214, 4-4-72, Cl. 260-33.6.
 Beckman, William J.: See—
 Lloyd, Allen H.; and Beckman, William J., 3,678,525.
 Beckmann, Gunter; and Finkmann, Hans-Ulrich, to Chemische Werke Huls Aktiengesellschaft. Method for preparing dimensionally stable articles of polybutene-1. 3,686,388, 8-22-72, Cl. 264-237.000.
 Beckmann, Rolf; and Schneider, Johannes, to Dynamit Nobel Aktiengesellschaft. Laminated safety glass and laminated bullet-proof glass. 3,658,636, 4-25-72, Cl. 161-199.
 Beckwith, Hildreth C.: See—
 Scanlon, Robert M.; and Beckwith, Hildreth C., 3,664,491.
 Beckwith, Merton M., to Conversion Chemical Corporation. Plating method utilizing silver-coated anode leads. 3,649,478, 3-14-72, Cl. 204-49.
 Beckwith, Robert C.: See—
 Hecker, Robert W., Jr.; and Beckwith, Robert C., 3,699,601.
 Beckwith, Robert W. Voltage balance relay circuit. 3,648,112, 3-7-72, Cl. 317-27.
 Beckwith, Sterling; and Vogel, Robert E., to Kysor Industrial Corporation, mesne. Method and apparatus for producing refrigerating constructions. 3,648,482, 3-14-72, Cl. 62-256.
 Becky, Raymond, to Westinghouse Air Brake Company. Electronic scanner. 3,679,828, 7-25-72, Cl. 178-7.600.
 Becorit Grubenausbau GmbH: See—
 Dischler, Helmut, 3,654,799.
 Dischler, Helmut, 3,687,070.
 Becque, John H., to Amsted Industries Incorporated. Pipe testing. 3,675,494, 7-11-72, Cl. 73-432.00r.
 Becraft, Donald E., to Hendry, C. J., Company. System and method for hoisting submarine hose. 3,640,400, 2-8-72, Cl. 212-3.
 Becsey, Leslie: See—
 Davis, Edward L.; and Becsey, Leslie, 3,632,145.
 Becton, Dickinson & Company: See—
 Beury, James Prescott, III; and Burridge, Robert E., 3,673,868.
 Madden, John J., 3,693,618.
 Becton, Dickinson and Company: See—
 Eckhart, Edgar O., 3,704,705.
 Esmond, William G., 3,695,445.

- Holderith, William J., 3,644,715.
Holderith, William J., 3,654,925.
Rapoza, Edward J.; Siegel, Maxwell E.; Estelle, Weems E.; Petrucci, Pasquale M.; Linarducci, Joseph S.; Hamma, John; and Montgomery, John, 3,706,499.
Siegel, Maxwell E.; Rapoza, Edward J.; and Chevalaz, Roger A., 3,634,651.
Welch, Joseph T., 3,677,245.
Wittes, James M.; and Bonanno, Peter J., 3,680,562.
Becton, Dickinson and Company, mesne: See—
Mahon, Thomas J.; and Cherba, Samuel, 3,670,726.
Becton, Dickinson Electronics Company: See—
Cother, Robert H., 3,689,839.
Lincoln, Thomas C.; and Voge, Andrew, 3,655,925.
Becton Dickinson Electronics Company, mesne: See—
Wilner, Leslie B., 3,638,481.
Bedall, Hans; Rentzsch, Max; and Buckey, Dieter, to Dichl. Pyrotechnical fuse with a detonator displaceable from a safe position into a live position. 3,683,814, 8-15-72, Cl. 102-64.000.
Bedard, Peter R.; and Spall, Charles J., Jr. Vehicle alarm system. 3,649,962, 3-14-72, Cl. 340-64.
Bedarev, Jury Dmitrievich: See—
Frolov, Yuri Fedorovich; Nechaev, Ivan Petrovich; Basalaev, Anany Maximovich; Bedarev, Jury Dmitrievich; and Golikov, Viktor Valerjanovich, 3,697,660.
Beddoe, Brian; and Hackling, David Charles, to Imperial Chemical Industries, Limited. Entrainment means. 3,688,957, 9-5-72, Cl. 226-7.000.
Beddows, Norman A.; Quigley, John A.; and Wielt, Warren P., to General Electric Company. Dynamoelectric machine utilizing preformed winding connectors and method of making. 3,675,058, 7-4-72, Cl. 310-71.000.
Bedekar, Shreekanth: See—
Logan, William A.; Holmes, Richard M.; Denny, William M.; Mahon, Michael J.; Skalski, Stephen, III; Henige, Gerald L.; and Bedekar, Shreekanth, 3,686,641.
Bedell, Stanley F., to Monsanto Research Corporation. Hydrazine perchlorate lithium perchlorate eutectics. 3,662,802, 5-16-72, Cl. 149-36.
Bedenk, William T.; and Purves, Edward R., to Procter & Gamble Company. The. Process of producing a soy-containing ready to eat breakfast cereal. 3,664,848, 5-23-72, Cl. 99-83.000.
Bedenk, William T.; and Grabel, Lawrence, to Procter & Gamble Company. The. Apparatus and process of puffing. 3,680,473, 8-1-72, Cl. 99-238.600.
Bedenk, William T., to Procter & Gamble Company. The. High protein ready-to-eat breakfast cereals containing soy concentrate. 3,687,686, 8-29-72, Cl. 99-83.000.
Bedenk, William T., to Procter & Gamble Company. The. High protein ready-to-eat breakfast cereals containing soy isolate. 3,689,279, 9-5-72, Cl. 99-83.000.
Bederke, Klaus: See—
Gentsch, Erich; Bederke, Klaus; Seider, Walter; Fullner, Hans Jürgen; and Muhlmann, Christa, 3,700,483.
Bederman, Seymour; and Lankford, Larry G., to International Business Machines Corporation. Method and apparatus for precisely contouring a workpiece imprecisely positioned on a supporting fixture. 3,633,011, 1-4-72, Cl. 235-151.11.
Bedetti, Gianfranco, to Montecatini Edison S.p.A. Apparatus for the combustion of titanium tetrachloride with oxygen for the production of titanium dioxide pigment. 3,676,060, 7-11-72, Cl. 23-277.000.
Bedford, Burnice D., to General Electric Company. Compatible permanent magnet or reluctance brushless motors and controlled switch circuits. 3,678,352, 7-18-72, Cl. 318-138.000.
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Bedford, John A.: See—
Hobbs, Charles C.; and Bedford, John A., 3,660,483.
Bedford, Michael J.: See—
Pedersen, John H.; and Bedford, Michael J., 3,668,649.
Bedford, Raymond E.: See—
Kesten, Patrick N.; Webb, Richard A.; and Bedford, Raymond E., 3,703,387.
Bedford, William A., Jr. Boat boarding step and seat. 3,647,023, 3-7-72, Cl. 182-23.
Bedi, Ram Dev; and Aoun, Fred, to M & T Chemicals Inc. Electrochemical stripping process. 3,634,217, 1-11-72, Cl. 204-146.
Bedi, Ram Dev, to M & T Chemicals Inc. Method of preventing etch in plating baths. 3,702,809, 11-14-72, Cl. 204-15.000.
Bedjai, Claude A.; and Antoine, Pierre N. Electronic remote control device utilizing modulated transmission of magnetically recorded signals filtered in a receiver. 3,688,268, 8-29-72, Cl. 340-147.00p.
Bedker, Bruce D.; and Wunderlich, Frederick C., to Salvo Tool & Engineering Company. Centering attachment. 3,673,832, 7-4-72, Cl. 72-35.000.
Bednar, David H., to Viking Explosives & Supply Inc. Hydraulically operated system for subsurface operations. 3,702,223, 11-7-72, Cl. 417-375.000.
Bednar, John S.: See—
Dingley, Wilfred; Bednar, John S.; and Rogers, Raymond R., 3,645,858.
Dingley, Wilfred; Bednar, John S.; and Rogers, Raymond R., 3,647,648.
Bednarchuk, Jury Vladimirovich: See—
Karpman, David Bentsionovich; Boris, Volkovich; Konovalov, Spivak Leonidovich; Bednarchuk, Jury Vladimirovich; Chigirinsky, Alexander Abramovich; Ugriumov, Leonid Vasilievich; Glider, Evgeny Khaimovich; and Gradov, Oleg Borisovich, 3,639,794.
Bednarek, John H.: See—
Rubner, Tibor; Wavre, Andre; and Bednarek, John H., 3,652,933.
Bednarski, Thaddeus E., to Black and Decker Manufacturing Company. The. Insulated armature construction and method. 3,639,789, 2-1-72, Cl. 310-43.
Bednarski, Valery N. Gas chromatography method and apparatus. 3,695,003, 10-3-72, Cl. 55-67.000.
Bednartz, Hugo. Vessel insert for the preparation of beverages. 3,631,793, 1-4-71, Cl. 99-295.
Bedo, Alfred; and Beck, Edward, to Sno-Trik Company. High pressure valve and method. 3,679,169, 7-25-72, Cl. 251-88.000.
Bedocs, Michael F.: See—
Cherry, Walter L.; and Bedocs, Michael F., 3,654,416.
Bedocs, Michael F., to Cherry Electrical Products Corporation. Panel-mounted switch. 3,674,970, 7-4-72, Cl. 200-168.00c.
Bedore, Clifford J., to Weber, H. G., and Company, Inc. Method of closing bottom flaps of paper bags. 3,645,815, 2-29-72, Cl. 156-69.
Bedoukian, Paul Z. Citrus oil and other oils having enhanced specific gravity, and use thereof. 3,652,291, 3-28-72, Cl. 99-28.
Bedsole, Raymond A. Method of cooking and imparting natural barbecue flavor to pork meat. 3,644,124, 2-22-72, Cl. 99-107.
Bee, James William Moore, to Northern Electric Company Limited. Stabilizer for headset. 3,691,319, 9-12-72, Cl. 179-156.00a.
Beears, Warren L., to Goodrich, B. F., Company, The. Hexahydro-1,3,5-tris-(4-hydroxyaryl)-s-triazines. 3,639,336, 2-1-72, Cl. 260-45.8.
Beebe, Cedric H.: See—
Strickler, Allen; and Beebe, Cedric H., 3,649,505.
Beebe, George W.: See—
Allen, Michael George; and Beebe, George W., 3,632,843.
Beebe, Harwood, Jr. Guide for watching sports. 3,698,741, 10-17-72, Cl. 283-63.000.
Beebe, Joseph A., to Buckeye Steel Castings Company, The. Resilient bearing mounting. 3,638,582, 2-1-72, Cl. 105-218.
Beebout, Howard E. Hay baling machine. 3,680,296, 8-1-72, Cl. 56-16.400.
Beech, Austin S., & Company Limited: See—
Beech, Austin Sidney; and Burrows, Roy, 3,664,470.
Beech, Austin Sidney; and Burrows, Roy, to Beech, Austin S., & Company Limited. Fluid controls with interlock for clutch and transmission. 3,664,470, 5-23-72, Cl. 192-3.570.
Beech, Frank, to GKN Sankey Limited. Apparatus for washing and filling containers for liquids. 3,648,742, 3-14-72, Cl. 141-92.
Beech-Nut, Inc.: See—
Hoffman, Louis S.; and Spruyt, Harry, 3,696,940.
Witzel, Frank, 3,677,770.
Beecham Group Limited: See—
Butterfield, William J. H., 3,639,628.
Fesker, George Robert; and Nayler, John Herbert Charles, 3,663,563.
Hardy, Kenneth David, 3,647,780.
Hardy, Kenneth David, 3,682,896.
Long, Anthony Alfred Walter; and Nayler, John Herbert Charles, 3,674,776.
Love, Dennis Anthony; Neal, David Patrick John; and Pidgeon, Eric, 3,641,001.
Mamalis, Patrick, 3,666,757.
Moran, David Martin; and Croucher, Jack Vivian, 3,639,560.
Richards, Merfyn; and Munden, Jeffery Edward, 3,632,477.
Thorne, David E., 3,657,341.
Beecham Group Limited, mesne: See—
Pars, Harry G.; and Razdan, Raj K., 3,652,576.
Razdan, Raj K.; and Thompson, William R., 3,707,474.
Rubricius, Jeanette L., 3,651,233.
Beccen, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of active lead dioxide. 3,644,090, 2-22-72, Cl. 23-146.
Beede, Charles H.: See—
Baliath, Ivan J.; and Beede, Charles H., 3,635,755.
Beede, Charles H., to Johnson & Johnson. Adhesive product. 3,635,754, 1-18-72, Cl. 117-122.
Beegle, Donald W.: See—
Salmon, David; Wierzbicki, Edward J.; Langston, Benny; and Beegle, Donald W., 3,703,340.
Beegle, Lindley Clair: See—
Haaeke, Gottfried C.; and Beegle, Lindley Clair, 3,700,499.
Beegle, Lindley Clair, to American Cyanamid Company. Electrochromic device having identical display and counter electrode materials. 3,704,057, 11-28-72, Cl. 350-160.000.

- Beeh, Ronald C. M.: See—
Brault, Andre R.; Chitayat, Anwar K.; and Beeh, Ronald C. M., 3,704,946.
Beehler, Larry A.; and Templin, Jackson R., to General Motors Corporation. Thumbwheel vacuum thermostat. 3,700,165, 10-24-72, Cl. 236-13.000.
Bechler, Vernon D.: See—
Sawyer, Harold T., 3,648,769.
Sawyer, Harold T., 3,657,759.
Sawyer, Harold T., 3,664,021.
Sawyer, Harold T., 3,676,218.
Becken, Michael J.: See—
Jenkins, Victor F.; Newton, Geoffrey P.; and Beeken, Michael J., 3,682,865.
Becker, Charles W.; and Crabtree, Royale R., to United States of America, Army. Helicopter sling load electrical connector. 3,647,170, 3-7-72, Cl. 244-136.
Beckman, William. Apparatus for collecting debris. 3,665,545, 5-30-72, Cl. 15-314.
Beekmans, Nicolaas Marinus: See—
Heijne, Leopold; and Beekmans, Nicolaas Marinus, 3,658,479.
Beekmans, Nicolaas Marinus; Heijne, Leopold; and Vink, Adrianus Teunis, to U.S. Philips Corporation. Device for measuring and dosing a gas. 3,654,112, 4-4-72, Cl. 204-195.
Beeler, Allan E.; and Skowronski, Steve J., to Chemetron Corporation. Utility outlet fixture with slack take-up. 3,653,401, 4-4-72, Cl. 137-355.17.
Beeley, Michael G.: See—
Radford, David L.; Beeley, Michael G.; and Sackett, William E., 3,632,041.
Beeley, Michael G.; Frisby, Paul W.; and Thompson, Richard D., to McGraw-Edison Company. Garment finisher and method of finishing garments. 3,644,085, 2-22-72, Cl. 8-150.
Beeley, Michael G.; and Thompson, Richard D., to McGraw-Edison Company. Steam air garment finisher. 3,696,523, 10-10-72, Cl. 34-216.000.
Beeli, Johann Battista, to International Telephone and Telegraph Corporation. Storage tube construction. 3,676,726, 7-11-72, Cl. 313-65.00r.
Beelitz, Howard Raymond, to RCA Corporation. Gated amplifier. 3,651,421, 3-21-72, Cl. 330-30.
Beels, Roland Francois: See—
Van Den Heuvel, Walter August; Willems, Jozef Frans; Philippaerts, Herman Adelbert; Beels, Roland Francois; and Heylen, Renaat Frans, 3,661,584.
Beeman, Everett C., to Monsanto Company. Package for dispensing measured amounts of liquid. 3,684,120, 8-15-72, Cl. 215-100.00r.
Beeman, James F.; Roberts, Glenn H.; and Smith, Charles W., to Sylvania Electric Products, Inc. Device for measuring hole sizes. 3,636,362, 1-18-72, Cl. 250-219.
Beemer, Paul K., to Ameron, Inc., mesne. Apparatus for truing mortar coating. 3,691,992, 9-19-72, Cl. 118-107.000.
Beemsterboer, George L.: See—
Tapp, James S.; Beemsterboer, George L.; and Salyer, Ival O., 3,698,560.
Beene, Calvin D., to Schlumberger Technology Corporation. Articles of manufacture including cylindrical members having specially terminated protective coatings. 3,675,950, 7-11-72, Cl. 285-45.000.
Beer, Ekkehard: See—
Lind, Heinrich; Mahl, Hans; and Beer, Ekkehard, 3,695,972.
Beer, Ernst; and Beer, Henri Bernard. Method of mounting electrode. 3,657,084, 4-18-72, Cl. 204-147.
Beer, Heinz, to Siemens Aktiengesellschaft. Grounding switch for metal-clad high-voltage switching installations. 3,683,134, 8-8-72, Cl. 200-48.00r.
Beer, Henri Bernard: See—
Beer, Ernst; and Beer, Henri Bernard, 3,657,084.
Beer, Henri Bernard, to Chemnor Aktiengesellschaft. Electrode and coating therefor. 3,632,498, 1-4-72, Cl. 204-290.
Beer, Ludwig A., to Monsanto Company. Process for impact modification of vinyl halide polymers and impact modifiers and vinyl halide blends produced therewith. 3,636,138, 1-18-72, Cl. 260-876.
Beer, Palle-Finn, to AGA Aktiebolag. Analytical apparatus having pressure regulator and flushing means. 3,650,699, 3-21-72, Cl. 23-259.
Beer, Palle-Finn; and Smith, Kai Robert, to AGA Aktiebolag. Photometer chamber. 3,652,170, 3-28-72, Cl. 356-246.
Beer, Palle-Finn, to AGA Aktiebolag. Telemetering system. 3,688,290, 8-29-72, Cl. 340-195.000.
Beerbower, Alan: See—
Garabrant, Arthur R.; Beerbower, Alan; and Wilson, James A., 3,696,661.
Beereboom, John J.: See—
Allingham, Robert P.; and Beereboom, John J., 3,658,983.
Beereboom, John J.; Cameron, Donald P.; and Stephens, Charles R., to Pfizer Inc. Method of flavoring food by addition of benzodioxepin-3-ones and benzodioxepin-3-ones. 3,647,479, 3-7-72, Cl. 99-140.
Beereboom, John J., to Pfizer Inc. 8-ionone derivatives and process therefor. 3,679,754, 7-25-72, Cl. 260-587.000.
Beerli, George: See—
Ackerman, Joseph Francis; Weisfeld, Joseph; Savageau, Robert George; and Beerli, George, 3,673,140.
Beermann, Claus: See—
Bartmann, Wilhelm; Duwel, Dieter; Georgi, Volkmar; Wolf, Erhard; Beermann, Claus; and Landauer, Franz, 3,661,966.
Reuter, Martin; Beermann, Claus; and Linke, Fritz, 3,690,941.
Beers, Le Roy W.: See—
De Santis, Alfred J.; Beers, Le Roy W.; White, James A.; and Moysey, John A., 3,680,058.
Beers, Melvin D.: See—
Hamilton, Stephen B.; Beers, Melvin D.; Berger, Abe; and Selin, Terry G., 3,661,817.
Hamilton, Stephen B.; Beers, Melvin D.; and Berger, Abe, 3,700,714.
Beers, Russel L.: See—
Swanson, John W.; Hartman, David A.; Beers, Russel L.; and Jamieson, Ernest J., 3,647,694.
Beersma, Pieter Johannes Adrianus: See—
Dijkhuizen, Willem; and Beersma, Pieter Johannes Adrianus, 3,664,863.
Beersma, Pieter Johannes Adrianus; and Veening, Albert Hendrik, to Scholten Research N.V. Remoistenable pregummed products. 3,640,756, 2-8-72, Cl. 117-76.
Beery, Jack, to Burroughs Corporation. Document separator control system. 3,635,465, 1-18-72, Cl. 271-41.
Beery, Jack, to Burroughs Corporation. Control system for battery regulated power supply. 3,691,397, 9-12-72, Cl. 307-66.000.
Beesch, Otto; Wolf, Karl; and Ziegler, Bodo, to Bosch, Robert, G.m.b.H. Glow plug. 3,689,195, 9-5-72, Cl. 431-208.000.
Beesch, Otto, to Bosch, Robert, G.m.b.H. High voltage sparkplug. 3,691,418, 9-12-72, Cl. 313-131.000.
Beese, Ferdinand: See—
Krejan, Friedhelm; Beese, Ferdinand; Hufner, Hans; Riedel, Franz; and Holzmann, Rainer, 3,665,649.
Beese, Norman C., to International Telephone and Telegraph Corporation. Sealed beam high intensity xenon lamp with cooling structure. 3,684,908, 8-15-72, Cl. 313-24.000.
Beeskow, Bruno, to Daimler-Benz Aktiengesellschaft. Intermediate support for the universal joint shaft of motor vehicles. 3,697,144, 10-10-72, Cl. 308-15.000.
Beesley, James P.; and Gunn, John B., to International Business Machines Corporation. High current low voltage regulated power supply. 3,679,959, 7-25-72, Cl. 321-47.000.
Beesley, Scott L. Cylindrical container storage construction. 3,664,545, 5-23-72, Cl. 221-176.000.
Beesley, William N., Jr. Cabinet storage racks. 3,669,277, 6-13-72, Cl. 211-49.00d.
Beeson, Eric John George: See—
Stanyon, Horace Edward; Robinson, Kenneth Buckley; and Beeson, Eric John George, 3,660,711.
Beeson, Eric John George; and Stanyon, Horace Edward, to Thorn Lighting Limited. Lamp having two separate phosphor coatings. 3,634,715, 1-11-72, Cl. 313-109.
Beeson, Jacob E. Shoulder belt releasable holding means. 3,667,807, 6-6-72, Cl. 297-389.000.
Beets, Muus G. J.; and van Essen, Harm, to International Flavors & Fragrances Inc. 2-Methyl-2-(tertiary alkyl cyclohexyl) pentan-4-ones and processes. 3,702,343, 11-7-72, Cl. 260-586.00b.
Beezer, Earl F. Device for transmitting control transitory movements. 3,703,834, 11-28-72, Cl. 74-57.000.
Beffa, Fabio: See—
Ackermann, Hans; and Beffa, Fabio, 3,697,500.
Begany, Albert J.; Ledig, Kurt W.; Oliver, Donald W.; and Wendt, Gerhard R., to American Home Products Corporation. Semicarbazones and thiosemicarbazones of 17 α -substituted 3-keto-steroids. 3,642,842, 2-15-72, Cl. 260-397.5.
Begemann, Heinrich K. S. P.: See—
Van de Belo, Roelof; Begemann, Heinrich K. S. P.; Bos, Hendrikus J.; and Mann, Adriaan B., 3,690,389.
Beggs AG: See—
Geschka, Hugo Werner; Qberhoff, Wolfgang; and Korb, Klaus, 3,672,188.
Beggs, James E., to General Electric Company. Support for composite electrode structure. 3,638,062, 1-25-72, Cl. 313-337.
Beggs, James E., to General Electric Company. Electron beam focusing bi-potential cathode. 3,648,096, 3-7-72, Cl. 313-346.
Beggs, James E., to General Electric Company. Cathode support and contact arrangement. 3,659,131, 4-25-72, Cl. 313-911.
Beggs, James E., to General Electric Company. Electron discharge device with helical conductor providing snap fit. 3,662,209, 5-9-72, Cl. 313-237.
Beggs, James E. Bonded heater, cathode, control electrode structure and method of manufacture. 3,694,260, 9-26-72, Cl. 117-210.000.
Beghelli, Benito; and Camprincoli, Pierpaolo, to Montecatini Edison S.p.A. Process for preparing dye-receptive polyolefinic fibers. 3,658,937, 4-25-72, Cl. 260-837.
Beghelli, Benito; Vacanti, Francesco; and Guerani, Giampaolo, to Montecatini Edison S.p.A. Process for the preparation of pigmented polyolefin fibers. 3,681,280, 8-1-72, Cl. 260-41.000.
Begleiter, Manny, to Miner Industries, Inc. Compressed gas supply system. 3,643,677, 2-22-72, Cl. 137-113.

- Begleiter, Manny, to Miner Industries, Inc. Nozzle for inflating balloons. 3,692,071, 9-19-72, Cl. 141-313.000.
- Begleiter, Nancy, to Miner Industries, Inc. Toy vehicle with steerable drive assembly. 3,684,046, 8-15-72, Cl. 180-26.00r.
- Begley, Richard T.; and Godshall, John L., to Westinghouse Electric Corporation. Niobium-base alloys. 3,682,626, 8-8-72, Cl. 75-174.000.
- Begoss, Andrew J.: *See—*
Bartok, Stephen; Kamenir, Melvin; and Begoss, Andrew J., 3,673,350.
- Begovich, Charles, to General Motors Corporation. Method and apparatus for manufacturing a squirrel cage rotor. 3,683,493, 8-15-72, Cl. 209-598.000.
- Beguín, Claude P.; and Betrix, Jean-Pierre F., to Borel S.A. Hardening and/or tempering furnace for self-hardening steel alloys and high-speed steels. 3,645,518, 2-29-72, Cl. 266-4.
- Beguín, Daniel Edmond, to International Standard Electric Corporation. Multimode horn. 3,680,145, 7-25-72, Cl. 343-786.000.
- Beguín, Daniel Edmond, to International Standard Electric Corporation. Radar monopulse antennas with converting polarization. 3,701,160, 10-24-72, Cl. 343-755.000.
- Beguín, Daniel Edmond, to International Standard Electric Corporation. Phase correction apparatus for circular polarization operation monopulse antenna horn. 3,699,583, 10-17-72, Cl. 343-756.000.
- Beguín, Fred P., to American Optical Corporation. Air-damped hearing protector earseal. 3,644,939, 2-29-72, Cl. 2-209.
- Beguiristain, Luis, to Torit Corporation, The. Evacuator system with shut-off valve. 3,636,974, 1-25-72, Cl. 137-565.
- Begy Societe Europeenne de Bas sans Couture: *See—*
Giberstein, Bernard, 3,698,899.
- Behar, Meyer; Dal Pont, Jean-Pierre; and Montet, Jerome, to Progil. Device for reaction between liquid phase and gaseous phase. 3,662,521, 5-16-72, Cl. 55-237.000.
- Behavioral Controls, Inc.: *See—*
Cohen, Ronald S., 3,662,770.
Cohen, Ronald S., 3,667,138.
- Beherano, Benko: *See—*
Beslin, Dragoljub; Beherano, Benko; and Mirkovic, Radivoj, 3,645,020.
- Behlen, Horst, to International Standard Electric Corporation. Circuit arrangement for forming a variable reactive impedance. 3,639,827, 2-1-72, Cl. 323-74.
- Behme, Henning, to Kieserling, Th., & Albrecht Werkzeugmaschinenfabrik. Device for conveying fluids or electric current between a stationary source and a mobile consumer. 3,700,833, 10-24-72, Cl. 191-12.00r.
- Behn, Joseph W., to Bell Telephone Laboratories, Incorporated. Testing circuit. 3,701,848, 10-31-72, Cl. 179-1.500.
- Behn, Reinhard, to Siemens Aktiengesellschaft. Capacitive network. 3,651,548, 3-28-72, Cl. 29-25.42.
- Behn, Reinhard; Preissinger, Karl-Heinz; and Simson, Reiner, to Siemens Aktiengesellschaft. Impregnated electrical capacitor. 3,665,268, 5-23-72, Cl. 317-258.
- Behn, Reinhard; Gottlob, Heinrich; Haid, Hans; Hoyler, Gerhard; and Kessler, Hartmut, to Siemens Aktiengesellschaft. Process for the production of capacitors. 3,670,378, 6-20-72, Cl. 29-25.420.
- Behn, Sheldon P., to Super Laundry Machinery Company, Inc. Laundry, drying and ironing method. 3,634,956, 1-18-72, Cl. 38-1.
- Behne, Ernst-August; and Fleer, Otto, to Siemens Aktiengesellschaft. Dental treatment units. 3,650,033, 3-21-72, Cl. 32-22.
- Behner, Otto: *See—*
Sagner, Gerhard; and Behner, Otto, 3,651,053.
- Behnke, Howard N., to Collins Machinery Corporation. Threader drive apparatus. 3,662,414, 5-16-72, Cl. 10-89.
- Behnke, Kenneth P.: *See—*
Mackal, Henry H.; and Behnke, Kenneth P., 3,696,494.
- Behnke, Wilbert E.: *See—*
Harris, Allan E.; and Behnke, Wilbert E., 3,646,623.
- Behr, Douglas Raymond: *See—*
Rieke, James K.; Behr, Douglas Raymond; and McIntire, Otis R., 3,647,617.
- Behr, Erich, to Dynamit Nobel Aktiengesellschaft. Process for the preparation of polyamidocarboxylic acids. 3,663,492, 5-16-72, Cl. 260-30.2.
- Behr, Erich, to Dynamit Nobel Aktiengesellschaft. Thermostable polyesters and process of producing same. 3,673,153, 6-27-72, Cl. 260-47.00c.
- Behr, Michael I.: *See—*
King, Chia-Cheng; Jorgensen, Arnold J.; and Behr, Michael I., 3,696,255.
- Behr, Michael I., to Burroughs Corporation. Method and apparatus for measuring tape speed. 3,646,535, 2-29-72, Cl. 340-174.1.
- Behr, Michael I.; and Smith, Robert A., to Burroughs Corporation. Method and apparatus for measuring fluid film bearings. 3,683,273, 8-8-72, Cl. 324-34.00r.
- Behr, Michael I.; and Carr, Allan E., to Burroughs Corporation. Method and apparatus for testing magnetic disc files. 3,686,682, 8-22-72, Cl. 340-174.10b.
- Behr, Michael J., to Burroughs Corporation. Magnetic positioning mechanism with trapezoidal head. 3,686,649, 8-22-72, Cl. 340-174.10c.
- Behr, Raymond D.: *See—*
Hearns, Harold L.; and Behr, Raymond D., 3,649,145.
- Behr, Rolf: *See—*
Herzhoff, Peter; Gref, Hans; Behr, Rolf; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Friedsam, Josef; and Browatzki, Kurt, 3,638,604.
- Behrendt, Lothar: *See—*
Schorr, Manfred; Durckheimer Walter; Behrendt, Lothar; and Duwel, Dieter, 3,676,446.
- Behrendt, Werner K.: *See—*
Sedgwick, Robert K.; Behrendt, Werner K.; and Baechle, Hans J., 3,704,510.
- Behrens, Alvin J. Chuck jaw insert and assembly. 3,679,221, 7-25-72, Cl. 279-1.05j.
- Behrens, Burkhard; and Delius, Hermann, to Reichhold-Albert-Chemie Aktiengesellschaft. Photopolymerizable unsaturated polyesters containing benzoin-ether, organic acid ester, organic phosphine initiators. 3,699,022, 10-17-72, Cl. 204-159.150.
- Behrens, C., Aktiengesellschaft: *See—*
Bredow, Walter, 3,650,133.
- Behrens, Joh. Friedrich: *See—*
Ploen, Gunter, 3,633,811.
- Behrens, Roy E.: *See—*
Donahue, Leo O.; and Behrens, Roy E., 3,659,699.
- Behrens, Rudolf Adolf, to American Cyanamid Company. Ethylene-propylene-diene elastomer. 3,644,304, 2-22-72, Cl. 260-79.5.
- Behrens, William H.: *See—*
Buttke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., 3,668,761.
- Buttke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., 3,684,088.
- Buttke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., 3,695,939.
- Behrenz, Wolfgang: *See—*
Fest, Christa; Hammann, Ingeborg; and Behrenz, Wolfgang, 3,700,686.
- Hoffman, Hellmut; Hammann, Ingeborg; and Behrenz, Wolfgang, 3,687,963.
- Sirrenberg, Wilhelm; Hammann, Ingeborg; Behrenz, Wolfgang; Stendel, Wilhelm; and Unterstenhofer, Gunter, 3,652,742.
- Behring Corporation: *See—*
Gollobitz, Gregory N., 3,699,628.
- Healis, George A., 3,662,797.
- Johnson, John A.; Alberti, Nicholas F.; and Schuette, Joseph E., 3,659,333.
- Losey, Wendell E., 3,650,218.
- Werthessen, Nicholas H., 3,650,215.
- Behringer, Alfred C., to Publication Corporation. Ink applicator for gravure printing press. 3,641,932, 2-15-72, Cl. 101-157.
- Behringer, Arthur J., to Xerox Corporation. Method for photoconductive powder. 3,694,201, 9-26-72, Cl. 96-1.500.
- Behrmann, Georg: *See—*
Fischer, Hans Jurgen; and Behrmann, Georg, 3,690,485.
- Behrmann, Georg; and Schubart, Rudolf, to Schmidt, Karl Heinz, Dipl.-Ing. Flotation device equipped with a road-section for the construction of floating bridges or motor-ferries. 3,651,528, 3-28-72, Cl. 14-1.
- Behrmann, Georg, to Schmidt, Karl Heinz, Dipl.-Ing. Transport vehicle for large airplanes. 3,658,377, 4-25-72, Cl. 296-28.
- Beich, Frank R.; and Beall, Glenn L., to American Hospital Supply Corporation. Syringe with self-returnable plunger. 3,661,152, 5-9-72, Cl. 128-235.
- Beidil, Max: *See—*
Nielsen, Ole; and Beidil, Max, 3,673,839.
- Beidler, Glenn S., to Pneumo Dynamics Corporation. Actuator lock. 3,668,977, 6-13-72, Cl. 92-17.000.
- Beidler, William F., to Treadline Fastener Corporation. Self-locking tubular insert. 3,670,794, 6-20-72, Cl. 151-7.000.
- Beier, Gerhard; Heckmaier, Joseph; and Bauer, Johann, to Wacker-Chemie G.m.b.H. Process for polymerizing and copolymerizing vinyl chloride in aqueous emulsions. 3,632,562, 1-4-72, Cl. 260-78.5.
- Beier, Werner E.: *See—*
Paliyenko, Paul; and Beier, Werner E., 3,640,670.
- Beierer, Joachim: *See—*
Picard, Karl-Heinz; and Beierer, Joachim, 3,679,909.
- Beiersdorf Aktiengesellschaft: *See—*
Guse, Gunter; and Pietsch, Hanns G., 3,690,937.
- Beiffuss, Horst: *See—*
Safrata, Leon; Beiffuss, Horst; Bormann, Hans; and Rost, Gunter, 3,685,242.
- Beigay, Jack M.: *See—*
Zaremski, Donald R.; Beigay, Jack M.; and Heavner, William D., Jr., 3,685,136.
- Beigel, Raymond J. Foldable container and blanks therefor. 3,700,159, 10-24-72, Cl. 229-19.000.
- Beighley, Arthur F.: *See—*
Durkee, Jackson L.; Beighley, Arthur F.; and Dunlap, Donald E., 3,659,633.
- Beightol, Leroy Earl, to Nutt, Roy, mesne. Biopsy method. 3,679,450, 7-25-72, Cl. 117-3.000.

- Beijer, Louis Benjamin: *See—*
Jacobs, Cornelius Adrianus Joannes; Beijer, Louis Benjamin; and Driessen, Antonius Jozephus Gerardus Cornelis, 3,639,801.
- Beiler, Jay Morton: *See—*
Binon, Fernand; and Beiler, Jay Morton, 3,678,063.
- Beiffuss, Richard W.: *See—*
Aydelott, Max M.; Beiffuss, Richard W.; and Borchert, Ernst, III, 3,680,262.
- Beilhack, Martin, Maschinenfabrik und Hammerwerk GmbH: *See—*
Gretschel, Herbert; Schneider, Walter; and Schmauder, Theodor, 3,645,211.
- Bein, Georg Wilhelm. Rotating atomizer for electrostatic painting apparatus. 3,684,174, 8-15-72, Cl. 239-15.000.
- Beinfest, Sidney; Jacura, Zenon; and Adams, Phillip, to Millmaster Onyx Corporation. Continuous process for the preparation of phosphonitrilic chloride cyclic polymers. 3,669,633, 6-13-72, Cl. 23-357.000.
- Beinhocker, Gilbert D.; and Galinato, John S., to Beinhocker, Gilbert D., mesne. Electronic game board system. 3,654,392, 4-4-72, Cl. 179-2.
- Beinhocker, Gilbert D., mesne: *See—*
Beinhocker, Gilbert D.; and Galinato, John S., 3,654,392.
- Beinsch, Herbert, to Bosch, Robert, Photokino GmbH. Motion picture camera for the making of exposures with fixed and variable exposure times. 3,705,764, 12-12-72, Cl. 352-121.000.
- Beirne, Patrick D., to Ethyl Corporation. Antioxidation of organic compositions. 3,637,585, 1-25-72, Cl. 260-45.85.
- Beismann, Heinz, to P. Konings Machinefabriek, Ijzer-en Metaalgietij N.V. Hydrostatic bearing. 3,650,580, 3-21-72, Cl. 308-9.
- Beismann, Manfred, to Konings, P., Machinefabriek, Firma. Means utilizing compressed air for confining a pressurized oil film between relatively movable bearing surfaces. 3,640,590, 2-8-72, Cl. 308-9.
- Beispel, Robert, to Extex Microsystems, Inc. Apparatus for continuous contact printing. 3,644,040, 2-22-72, Cl. 355-103.
- Beispel, Robert, to Extex Microsystems, Inc. Contact printing method and apparatus with electrostatic means for film registration. 3,650,623, 3-21-72, Cl. 355-12.
- Beisswenger, Heinrich, to Alkem Alpha-Chemie und-Metallurgie G.m.b.H. Mixing apparatus for powdered nuclear fuel. 3,672,642, 6-27-72, Cl. 259-50.000.
- Beiswanger, John P. G.: *See—*
Eisenan, Fred S., Jr.; Schenck, Leslie Millard; and Beiswanger, John P. G., 3,686,368.
- Beiswanger, John Paul Gerhardt; and Nassry, Assadullah, to GAF Corporation. Glycol ether-chromium corrosion resistant coatings for metallic surfaces. 3,679,493, 7-25-72, Cl. 148-6.160.
- Bejach, Benton, to Borg-Warner Corporation. Motor control system with compensation for low-frequency variations in motor energizing voltage. 3,670,235, 6-13-72, Cl. 321-18.000.
- Bekassy, Sandor: *See—*
Csuros, Zoltan; Petro, Jozsef; Tugler, Antal; Mathe, Tibor; and Bekassy, Sandor, 3,691,103.
- Bekhtle, Georgy Alexandrovich; Myasnikov, Nikolai Fedorovich; Mitrofanov, Yuri Eremeevich; Berestov, Evgeny Stepanovich; Kausvasinsky, Albert Frantsevich; Leibson, Mark Lazarevich; and Derkach, Viktor Gershovich; deceased (by Galina, Nisonovna Budnitskaya; administrator). Method and apparatus for magnetic concentration with ferromagnetic soft iron bodies. 3,690,454, 9-12-72, Cl. 209-38.000.
- Bekum Maschinenfabriken GmbH: *See—*
Mehnert, Gottfried, 3,702,751.
- Bel, Jean-Pierre. Quick-release inflatable envelope for life jackets and the like. 3,681,801, 8-8-72, Cl. 9-342.000.
- Bel-Art Products: *See—*
Vajnovszky, Barnabas, 3,633,001.
- Belady, Laszlo A.: *See—*
Baskin, Herbert B.; Belady, Laszlo A.; Evangelisti, Carlo J.; and Morse, Stephen P., 3,680,078.
- Belaieff, James Frank, to Frame S.A. Spraying rotor for a dish washing machine or an industrial glass-ware washing machine. 3,677,473, 7-18-72, Cl. 239-251.000.
- Belanger, Inc.: *See—*
Belanger, James A., 3,685,217.
- Belanger, James A., to Belanger, Inc. Rotary finishing wheel or tool. 3,685,217, 8-22-72, Cl. 51-337.000.
- Belansky, Rudolph J., to Illinois Tool Works Inc. Clutch controlled drive mechanism. 3,656,320, 4-18-72, Cl. 64-24.
- Belart, Juan: *See—*
Marshall, Helmut; Kammermayer, Wolfgang; Beller, Hans Albert; Hahn, Heinz; and Belart, Juan, 3,669,226.
- Belart, Juan, to International Telephone and Telegraph Corporation. Power assisted brake. 3,638,426, 2-1-72, Cl. 60-54.6.
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- Belasco, Melvin; and Borrello, Sebastian R., to Texas Instruments, Incorporated. Photosensitive semiconductor device. 3,703,408, 11-21-72, Cl. 117-212.000.
- Belason, E. Bruce; Castle, George K.; Crowley, Donald P.; and Morgida, Joseph V., to Avco Corporation. Fire simulation facility. 3,647,193, 3-7-72, Cl. 263-1.
- Belavsky, Mikhail Alexandrovich: *See—*
Chepigo, Sergei Vladimirovich; Belenky, Solomon Iosifovich; Somov, Vsevolod Sergeevich; Voronkov, Vasily Gerasimovich; Belavsky, Mikhail Alexandrovich; Korotaev, Oleg Georgievich; Rodionova, Galina Sergeevna; Maximenko, Nikolai Spiridonovich; Glazman, Bori Aronovich; Belova, Larisa Alexandrovna; and Vorobiova, Galina Ivanovna, 3,654,084.
- Belcher, Charles E. Rotary pump with integral rotor construction. 3,649,141, 3-14-72, Cl. 418-186.
- Belcher, James E.: *See—*
Tachick, Henry N.; and Belcher, James E., 3,662,297.
- Belcher, Richard A.: *See—*
Kozacka, Frederick J.; and Belcher, Richard A., 3,671,909.
- Belcher, Richard A.; and Kozacka, Frederick J., to Chase-Shawmut Company, The. Electric low-voltage fuse. 3,697,916, 10-10-72, Cl. 337-161.000.
- Belcher, Richard A., to Chase-Shawmut Company, The. Electric cartridge fuse. 3,701,069, 10-24-72, Cl. 337-160.000.
- Belcher, Richmond D.; Duggan, Robert J.; Ellis, George R.; Esslinger, Robert H.; Goodyear, W. Frederick; Marshall, Joseph C.; and Masone, Thomas R., to Bunker-Ramo Corporation, The. Data handling apparatus. 3,656,148, 4-11-72, Cl. 340-324.
- Belcher, Samuel L., to Owens-Illinois, Inc. Pallet. 3,685,461, 8-22-72, Cl. 108-51.000.
- Belco Pollution Control Corporation: *See—*
Schumann, John L.; Schindeler, John W.; and Rosen, Milton, 3,641,740.
- Belde, Horst: *See—*
Tartter, Arnold; Luebecke, Enno; and Belde, Horst, 3,649,642.
- Belden Corporation: *See—*
Cornish, Rodney H.; Staulcup, James T.; and Chaney, Richard M., 3,672,426.
- Lasley, James A., 3,673,315.
- Spade, Robert L., 3,688,016.
- Stier, Ronald L., 3,639,674.
- Belden, M Joanne: *See—*
Arthur, Ralph P.; and Belden, M Joanne, 3,681,253.
- Belden, Mary Joanne: *See—*
Arthur, Ralph P.; and Belden, Mary Joanne, 3,684,568.
- Belden, Rex. Earth working and planting apparatus and method of planting seed. 3,664,279, 5-23-72, Cl. 111-80.
- Belden, Richard C.: *See—*
Bouchard, Richard J.; and Belden, Richard C., 3,696,408.
- Belder Trust, Reg., mesne: *See—*
Otto, Fritz, 3,655,139.
- Beldin, Royal Lowell: *See—*
Skromme, Arnold Burton; Lindstrom, Harold Richard; Henningesen, Etlar August; Beldin, Royal Lowell; Sorlie, Donald Thomas; and Eckert, Elmer Richard, 3,667,734.
- Beldon, Roy A.: *See—*
Trimpe, Clarence W.; and Beldon, Roy A., 3,698,485.
- Belenky, Alexandr Mikhailovich: *See—*
Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamov, Viktor Leonidovich; Borisovich, Kiev, Alexandr; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikhailovich; Shevisov, Anatoly Ivanovich; Grinspon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toschev, Alexandr Mikhaivich, 3,687,188.
- Belenky, Solomon Iosifovich: *See—*
Chepigo, Sergei Vladimirovich; Belenky, Solomon Iosifovich; Somov, Vsevolod Sergeevich; Voronkov, Vasily Gerasimovich; Belavsky, Mikhail Alexandrovich; Korotaev, Oleg Georgievich; Rodionova, Galina Sergeevna; Maximenko, Nikolai Spiridonovich; Glazman, Bori Aronovich; Belova, Larisa Alexandrovna; and Vorobiova, Galina Ivanovna, 3,654,084.
- Beletsky, Naum Iosifovich; and Chepovetsky, Mikhail Lvovich, to Vsesojuzny Proektno-Konstruktorsky Institut Svarochnogo Proizvodstva. Automatic rotary-swaging machine for reducing metal-wire parts. 3,686,912, 8-29-72, Cl. 72-70.000.
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- Belew, Herschel W., Jr.: *See—*
Davis, John W.; and Belew, Herschel W., Jr., 3,670,564.
- Belew, Robert R., to United States of America, National Aeronautics and Space Administration. Thermal compensating structural member. 3,675,376, 7-11-72, Cl. 52-1.000.
- Belford, Bertram C., to Massey-Ferguson Services N.V. Automatically actuated vehicle indicator. 3,648,234, 3-7-72, Cl. 340-62.
- Belgau, Frank A. Visual and audio perception testing and training apparatus. 3,698,800, 10-17-72, Cl. 351-32.000.

- Belgium Standard Limited: *See*—
Carter, Franklin T., 3,643,589.
- Belgonucleaire, S.A.: *See*—
De Boeck, Paul; Marteel, Bernard; and Schrijvers, Jozef, 3,669,833.
- Flipot, Alfred J. P., 3,692,887.
- Belhomme, Charles: *See*—
Yperman, Jean Michel Baudry Ghislain; and Belhomme, Charles, 3,674,713.
- Beling, Thomas E., to Sigma Instruments, Inc. Meter vane position sensing controller. 3,643,134, 2-15-72, Cl. 317-148.5.
- Belisle, Alfred E.; and Nelson, John C., to Fox River Paper Corporation. Method of making a non-woven reinforced laminate. 3,652,353, 3-28-72, Cl. 156-62.4.
- Belize Plywood and Veneer Company, Inc.: *See*—
Fitzgibbon, Chester Manfield, 3,643,710.
- Belk, Wilber C.; and Mulford, Charles T., to FMC Corporation. Apparatus for separating seeds from citrus fruit. 3,656,526, 4-18-72, Cl. 146-3.
- Belke, Jack T.: *See*—
Claffin, Hyle K.; and Belke, Jack T., 3,658,359.
- Belke Manufacturing Company: *See*—
Belke, Ralph E., 3,671,416.
- Belke, Ralph E., to Belke Manufacturing Company. Bulged spincetral seals for electroplating racks. 3,671,416, 6-20-72, Cl. 204-297.00.
- Belkin, Joseph W. Proctoscope. 3,701,347, 10-31-72, Cl. 128-5.000.
- Belknap, Charles B.; and Drum, James R., to Hon Industries Inc. Followers for filing units. 3,687,326, 8-29-72, Cl. 220-22.300.
- Belknap, Ivan F.: *See*—
Lance, Christopher James, 3,662,629.
- Lance, Christopher James, 3,667,327.
- Belknap, John C. Hydraulic jack. 3,633,365, 1-11-72, Cl. 60-54.5.
- Bell & Howell Company: *See*—
Badalich, Frank C.; and Watterlohn, Roy H., 3,675,994.
- Bell, Norton W., 3,634,776.
- Bernhold, Edward B., 3,700,315.
- Betlejewski, Frank W.; and Hanberg, Sanford M., 3,674,948.
- Bookless, George W., 3,694,078.
- Bradt, Gordon E., 3,698,254.
- Browder, Lewis B., 3,641,280.
- Burm, George C.; Henriksen, Elmer C.; and Mateja, Eugene V., 3,665,446.
- Carlson, Richard K.; and Koeber, Henry J., 3,650,611.
- Carlson, Richard K., 3,673,934.
- Cherniavsky, Jaroslav, 3,675,995.
- Cherniavsky, Jaroslav; Prelletz, Edward R.; and Rucinski, Roland R., 3,666,205.
- Cooper, Dexter P., Jr., 3,633,475.
- Cooper, Dexter P., Jr., 3,665,118.
- Costanza, Carl C.; Weber, Walter W.; Betlejewski, Frank W.; and Frystak, Richard, 3,659,934.
- Dann, Bert H., 3,634,616.
- Dann, Bert H., 3,663,743.
- Dann, Bert H., 3,678,397.
- Dann, Bert H., 3,697,673.
- Dann, Bert H., 3,699,243.
- Duck, Sherman W., 3,683,405.
- Elliott, Robert R., 3,636,781.
- Ferrari, Leonard A., 3,677,626.
- Figge, Erwin E.; Lancor, Joseph H., Jr.; and Lodge, Edward H., 3,669,532.
- Figge, Erwin E.; and Ho, Edward J., 3,674,348.
- Fredrickson, Donald M., 3,640,524.
- Fredrickson, Donald M.; and Bungener, Johannes H., 3,640,617.
- Freeland, Stanley R., 3,675,559.
- Frystak, Richard; and Gould, Irwin M., 3,644,033.
- Gaynor, Joseph, 3,703,143.
- Gilsdorf, Richard C., 3,678,440.
- Grant, Peter H., 3,675,869.
- Hartmann, Rudolf, 3,696,724.
- Hipelius, John W.; and Murray, James H., 3,656,846.
- Hodder, Wayne K., 3,641,468.
- Hodder, Wayne K.; and Browder, Lewis B., 3,683,131.
- Hodder, Wayne Kassell, 3,651,277.
- Hull, Charles W., 3,671,737.
- Hull, Charles W.; and McKinney, Charles R., 3,699,332.
- Iha, Kiyoshi, 3,674,347.
- Jacobs, John H.; and Corrigan, Richard A., 3,661,586.
- John, Robert S., Jr., 3,694,061.
- Johnson, Robert F.; and Lichodziejewski, Wieslaw, 3,677,627.
- Koeber, Henry J., 3,639,997.
- Koeber, Henry J., 3,680,813.
- Koeber, Henry J., 3,685,891.
- Koeber, Henry J., 3,698,253.
- Koeber, Henry J., 3,700,317.
- Krupotich, Edward A., 3,643,798.
- Lancor, Joseph H., Jr., 3,650,609.
- Lancor, Joseph H., Jr., 3,674,346.
- Lemke, James U., 3,693,183.
- Lessman, Gerhard, 3,653,888.
- Mateja, Eugene V., 3,697,158.
- Neff, Joseph J., 3,643,893.
- Neff, Joseph J., 3,706,423.
- Notley, Norman T., 3,707,001.
- Nupnau, Arthur E., 3,640,612.
- Nupnau, Arthur E., 3,667,835.
- Powell, Merl, 3,651,936.
- Prelletz, Edward R., 3,693,907.
- Rempala, Chester S.; and Murre, Robert W., 3,649,119.
- Rempala, Chester S., 3,675,877.
- Rolker, John J., Jr., 3,650,860.
- Samaniego, Felix, 3,633,545.
- Samczyk, Casimir S., 3,667,752.
- Stefansson, Rafn, 3,646,567.
- Stefansson, Rafn; and Beanston, Robert A., 3,673,602.
- Taillon, John Kellner, 3,690,750.
- Thomsen, Jack W.; Nupnau, Arthur E.; Kim, Raymond W. H.; Cherniavsky, Jaroslav; and Iha, Kiyoshi, 3,635,548.
- Thomsen Jack W., 3,685,766.
- Thomsen, Jack W.; Nupnau, Arthur E.; Kim, Raymond W. H.; and Cherniavsky, Jaroslav, 3,701,595.
- Vrobel, Eliahu, 3,649,956.
- Weber, Paul E., 3,693,016.
- Wilson, James F., 3,643,294.
- Yamada, Yoshikazu; and Garland, Thomas H., 3,650,755.
- Yamada, Yoshikazu; Sund, Joseph Tat-Hin; and Logue, Daniel R., 3,706,276.
- Bell & Howell Company, *mesne*: *See*—
Blum, James; and Johnson, Robert P., 3,638,934.
- Bell, Alan, to Foster Wheeler Corporation. Steam boilers. 3,687,115, 8-29-72, Cl. 122-4.000.
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- Bell, Alexander: *See*—
Compton, Robert H.; and Bell, Alexander, 3,633,065.
- Bell and Howell Company: *See*—
Sather, Eugene; Stocker, Lester H.; and Hams, Kenneth A., 3,652,078.
- Sather, Eugene; Stocker, Lester H.; and Hams, Kenneth A., 3,652,828.
- Upadhyay, Pravin M., 3,675,503.
- Bell, Anthony Geoffrey. High speed dynamic buffer. 3,675,043, 7-4-72, Cl. 307-205.000.
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- Bell, Archie Y. Door hanging work bench. 3,643,935, 2-22-72, Cl. 269-16.
- Bell, Barry Bernard; and Pederson, Wellington Edward, to RCA Corporation. Slurry process for coating particulate material upon a surface. 3,653,941, 4-4-72, Cl. 117-33.5.
- Bell Canada: *See*—
Leyburn, Derek; Montague, Bernard R.; and Mattila, Henry K., 3,670,109.
- Leyburn, Derek; Montague, Bernard R.; and Mattila, Henry K., 3,674,940.
- Naylor, David C.; and Leyburn, Derek, 3,700,830.
- Bell Canada-Northern Electric Research Limited: *See*—
Lock, Roger David, 3,676,872.
- Bell, Charles Anthony; and Young, Anthony David, to National Research Development Corporation. Process controller. 3,643,076, 2-15-72, Cl. 235-151.1.
- Bell, Charles C.; and Niederer, Kurt W., to Leesona Corporation. Textile machine. 3,688,486, 9-5-72, Cl. 57-34.00.
- Bell, Charles Gilbert, to City of Sioux City. Implement hitch. 3,659,362, 5-2-72, Cl. 37-42.
- Bell, Charles H.: *See*—
Carder, Frank B.; Stumpe, Warren R.; Frassetto, Bruno S.; and Bell, Charles H., 3,655,075.
- Carder, Frank B.; Stumpe, Warren R.; Frassetto, Bruno S.; and Bell, Charles H., 3,655,076.
- Bell, Charles S.; and Wulff, Harald P., to Shell Oil Company. Olefin epoxidation. 3,702,855, 11-14-72, Cl. 260-348.0sl.
- Bell, Clarence R. Rope splicing implement. 3,654,755, 4-11-72, Cl. 57-23.
- Bell, Cyril Ove Robert; and Jones, Neville Murray, to Monsanto Chemicals Limited. Preparation of magnesium-containing lubrication oil detergents. 3,706,665, 12-19-72, Cl. 252-32.7hc.
- Bell, David, to BP Chemicals (U.K.) Limited. Recovery of mercury. 3,647,359, 3-7-72, Cl. 23-2.
- Bell, Edward H., to Westinghouse Air Brake Company. Vehicle speed sensor. 3,656,353, 4-18-72, Cl. 73-493.
- Bell, Edward Hall; and Fichter, Barry Sayers, to American Standard, Inc. Fluidic combination lock. 3,633,392, 1-11-72, Cl. 70-275.
- Bell Electric Company: *See*—
Zerwes, Paul J.; and Cohen, Theodore A., 3,686,425.
- Bell Electronic Corporation: *See*—
Martin, Ricky, 3,667,027.

- Bell, George. Electrical lock for ignition systems. 3,644,745, 2-22-72, Cl. 307-10.
- Bell, George. Electrical key for ignition systems. 3,660,624, 5-2-72, Cl. 200-44.
- Bell, George E., to Xerox Corporation. Copy sheet package. 3,651,933, 3-28-72, Cl. 206-57.
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- Bell, Gunter: *See*—
Kuhn, Max; Bell, Gunter; and Watermann, Willy, 3,702,061.
- Bell, Gunter, to Klockner-Werke AG. Cap pull for a mining frame prop of an advancing pit support. 3,686,874, 8-29-72, Cl. 61-45.00d.
- Bell, Harry F.; Lazzarini, Donald J.; and Schultz, Lewis K. Anti-corrosive electrophoretic coating process. 3,699,029, 10-17-72, Cl. 204-181.000.
- Bell, Harvey: *See*—
Marotta, Nicholas G.; Bell, Harvey; and Trubiano, Paolo C., 3,650,770.
- Bell, Harvey W., III, to Stewart-Warner Corporation. Device for supporting semiconductor wafers. 3,678,893, 7-25-72, Cl. 118-500.000.
- Bell, Howard F.; and Scheinman, John A., to Shell Oil Company. Pipeline flow tee. 3,677,292, 7-18-72, Cl. 137-544.000.
- Bell, Jack T.; and Smith, Barton K., to Weyerhaeuser Company. Bottom flap folding and conveying apparatus. 3,673,764, 7-4-72, Cl. 53-374.000.
- Bell, James Alexander Evert: *See*—
Curlook, Walter; and Bell, James Alexander Evert, 3,656,934.
- Bell, James C.: *See*—
Darrah, John H.; Bell, James C.; Vorachek, Jerome J.; Bezbatchenko, John W.; Biecker, George A.; Barton, James A.; Gordon, Robert C.; and Kirschner, Gerald D., 3,680,129.
- Bell, James C., Jr., to Goodyear Aerospace Corporation. Mechanically operated erectable structure. 3,669,368, 6-13-72, Cl. 242-54.00a.
- Bell, Jean, to Societe Generale de Constructions Electriques et Mecaniques (Alsthom). Method of and means for lubricating the lower bearings in a drilling machine. 3,666,329, 5-30-72, Cl. 308-8.2.
- Bell, John Alan: *See*—
Cotton, Joseph Bernard; Bennett, William Raymond; Bell, John Alan; and Hayfield, Peter Charles Steele, 3,645,862.
- Bell, John B.: *See*—
Malkemus, John D.; and Bell, John B., 3,703,538.
- Bell, John F. W. Acoustic thermometers. 3,633,423, 1-11-72, Cl. 73-339.
- Bell, John M.; and Mooney, Robert A., to Ford Motor Company. Tool for establishing ignition timing of a reciprocating internal combustion engine. 3,691,641, 9-19-72, Cl. 33-181.0at.
- Bell, John R.: *See*—
Korchynsky, Michael; Grozier, John David; Mihelich, John L.; Bell, John R.; and Luyckx, Leon, 3,666,452.
- Bell, Joseph P. Pallet. 3,640,229, 2-8-72, Cl. 108-58.
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- Bell, Lon E., to Technor Incorporated. Crash sensing switch. 3,688,063, 8-29-72, Cl. 200-61.530.
- Bell, Malcolm R.; Carlson, John A.; and Oesterlin, Rudolf, to Sterling Drug Inc. Process for preparing D-5,5-dimethyl-Δ²-thiazoline-4-carboxylic acid derivatives. 3,666,770, 5-30-72, Cl. 260-306.7.
- Bell, Norman; and Lam, Hung-Kei H., to Kaiser Aluminum & Chemical Corporation. Purification of magnesium chloride solutions. 3,676,077, 7-11-72, Cl. 23-296.000.
- Bell, Norton W., to Bell & Howell Company. Phase-locked loop including a photo-electric phase detector. 3,634,776, 1-11-72, Cl. 331-25.
- Bell, Oliver A., Jr., to Colt Industries Operating Corporation. Cut-off protection system for electrical discharge machining power supply. 3,705,969, 12-12-72, Cl. 219-69.00s.
- Bell, Oran M.; and Walker, Joseph J. Ankle hitch. 3,680,551, 8-1-72, Cl. 128-84.00r.
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- Bell Punch Company Limited: *See*—
Drage, James John; and Kitz, Norbert, 3,639,742.
- Kitz, Norbert, 3,639,743.
- Lloyd, John George; and Fripp, Alan, 3,641,501.
- Bell, R. Gordon. Pie and cake saver. 3,677,168, 7-18-72, Cl. 99-234.00s.
- Bell, Ramsay M., to Hammond Machinery Builders, Inc. Device for smoothing irregularities. 3,685,393, 8-22-72, Cl. 90-1.400.
- Bell, Randall P.: *See*—
Lazar, Burton A.; Bell, Randall P.; and Vanderhoef, John P., 3,673,723.
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- Bell, Richard L.: *See*—
Babbitt, John H., Jr.; Bell, Richard L.; Riedesel, Edwin L.; and Stark, Sheldon L., 3,632,134.
- Bell, Robert Joseph: *See*—
Gaskin, Timothy Allen; and Bell, Robert Joseph, 3,632,328.
- Simmons, James Almy; and Bell, Robert Joseph, 3,689,677.
- Bell, Ronald J.; and O'Neal, Edward C., to Hunter Engineering Company; a division of American Metal Climax, Inc. Stretcher leveling system. 3,641,797, 2-15-72, Cl. 72-160.
- Bell, Ronald L., to Varian Associates. Photoemitter having a p-type semiconductive substrate overlaid with cesium and n-type cesium oxide layers. 3,644,770, 2-22-72, Cl. 313-94.
- Bell, Russell N.: *See*—
Angstadt, Richard L.; and Bell, Russell N., 3,642,437.
- Toy, Arthur D. F.; and Bell, Russell N., 3,656,890.
- Bell, Samuel; and Bullen, Leslie Gerald, to Electric & Musical Industries Limited. Mooring devices. 3,705,431, 12-12-72, Cl. 9-8.00r.
- Bell, Stanley C.: *See*—
Feed, Meier E.; Bell, Stanley C.; and Wei, Peter H. L., 3,660,430.
- McCauly, Ronald J.; and Bell, Stanley C., 3,632,644.
- McCauly, Ronald J.; and Bell, Stanley C., 3,652,548.
- McCauly, Ronald J.; and Bell, Stanley C., 3,691,235.
- Wei, Peter H. L.; and Bell, Stanley C., 3,632,636.
- Wei, Peter H. L.; and Bell, Stanley C., 3,637,746.
- Wei, Peter H. L.; and Bell, Stanley C., 3,644,401.
- Wei, Peter H. L.; and Bell, Stanley C., 3,704,239.
- Wei, Peter H. L.; and Bell, Stanley C., 3,704,304.
- Wolf, Milton; Diebold, James L.; and Bell, Stanley C., 3,652,547.
- Wolf, Milton; Diebold, James L.; and Bell, Stanley C., 3,704,291.
- Wolfe, Milton; Diebold, James L.; Russell, Peter B.; and Bell, Stanley C., 3,704,292.
- Bell, Stanley C., to American Home Products Corporation. Process for preparing a[(2-benzoylphenylcarbamoyl) methyl]-hydroxy carbamic acid, ethyl ester, ethyl carbonate. 3,652,634, 3-28-72, Cl. 260-463.
- Bell, Stanley C.; and Wei, Peter H. L., to American Home Products Corporation. 2-Acylamido-3-aryl-3H-indol-3-ol esters and related compounds. 3,686,210, 8-22-72, Cl. 260-326.13r.
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- Bell Tech Systems, Inc.: *See*—
Zweig, Leon A., 3,679,483.
- Bell Telephone Company of Canada, The: *See*—
Leyburn, Derek; and Davey, Murray Allan, 3,705,275.
- Lorange, Jean G., 3,678,203.
- Regniere, J. Ernest, 3,651,275.
- Bell Telephone Laboratories, Incorporated: *See*—
Bush, Stanley E.; Crouse, Parker E.; and Saltus, George E., 3,684,833.
- Fuss, Peter Siegfried, 3,702,393.
- McGahey, Bruce Hamilton; and West, John Wesley, 3,702,439.
- Bell Telephone Laboratories, Incorporated: *See*—
Arthur, John Read, Jr.; and Morris, Francis Joseph, 3,666,553.
- Bell Telephone Laboratories, Incorporated: *See*—
Aaron, Marvin Robert; Hammett, Warren Gail; and Oberst, James Francis, 3,697,690.
- Abbott, Robert Plowden, 3,671,669.
- Abrams, Richard Lee; and Glass, Alastair Malcolm, 3,654,466.
- Addeo, Eric John, 3,692,938.
- Allen, Larry Carl; and Romero, Roderic, 3,689,703.
- Alles, David Shepard; Elek, John William; Nevis, Benjamin Edward; and Schlegel, Wallace Albert, 3,636,849.
- Alsberg, Dietrich Anselm, 3,660,788.
- Alsberg, Dietrich Anselm, 3,678,420.
- Amelio, Gilbert Frank; and Smith, George Elwood, 3,701,914.
- Anderson, Harold Peter; and Fenton, Francis Michael, 3,701,854.
- Anderson, Lawrence K.; Feldman, Martin; and Pinnow, Douglas Arthur, 3,703,137.
- Anderson, Lawrence Keith; and Feldman, Martin, 3,653,067.
- Anderson, Philip Warren; Dynes, Robert Carr; and Fulton, Theodore Alan, 3,676,718.
- Anderson, Robert V.; and Hagelbarger, David W., 3,675,240.
- Anderson, Theodore C.; Baum, Roger D.; Favin, David L.; and Rugo, John J., 3,637,954.
- Andreini, John; Borchard, Edwin Harley; Pohl, Karl-Heinz; and Puccio, Joseph Anthony, 3,689,115.

- Andreini, John; Borchard, Edwin Harley; Pohl, Karl-Heinz; and Puccio, Joseph Anthony, 3,689,128.
 Angner, Ronald Joseph; and Koscinski, Anthony, 3,651,274.
 Angner, Ronald Joseph; and Koscinski, Anthony, 3,691,308.
 Appar, Waldo Ditmar; D'Asaro, Lucian Arthur; Dixon, Richard Wayne; Dufft, William Henry; Elder, Harry Eugene; and Fraley, Phillip Edward, 3,694,902.
 Armstrong, Douglas Byron, 3,702,011.
 Arthur, John R., Jr.; and Wagner, Richard S., 3,635,753.
 Artz, Walter M.; Cornelius, Kenneth R.; Olson, John W.; Signor, Gary R.; and Slojowski, Francis E. (said Artz, said Cornelius, said Olson and said Slojowski, assors. to), 3,641,505.
 Arvay, Frank Joseph; Frieber, George; Lechleider, Joseph William; and Sutton, Robert Anderson, 3,678,379.
 Ashkin, Arthur; and Kogelnik, Herwig W., 3,638,139.
 Ashkin, Arthur; and Bjorkholm, John Ernst, 3,662,183.
 Ashkin, Arthur; and Ippen, Erich Peter, 3,674,335.
 Audesirk, John Pringle; Morse, Charles Ernest; and Weed, Gordon Douglas, 3,705,269.
 Ault, Cyrus Frank, 3,701,130.
 Ault, Cyrus Frank; Reed, Ray Allen; and Reichert, William George, Jr., 3,704,383.
 Austad, Helge, 3,705,325.
 Axelrod, Norman N., 3,658,420.
 Axelrod, Norman Nathan, 3,675,316.
 Bacon, Donald Dingley; Nesbitt, Ethan Allen; Sherwood, Richard Curry; and Wernick, Jack Harry, 3,676,867.
 Bagley, Brian G.; and Carides, James Nicholas, 3,669,643.
 Baldwin, Wiley M.; Fuchs, Edward O.; and Sharp, Donald J. (said Fuchs and said Swisher assors. to), 3,697,255.
 Ballman, Albert A.; and Carruthers, John R., 3,647,697.
 Baumgartner, Robert Garland; and Maclean, Kenneth Chambers, 3,636,241.
 Beadle, William E.; Benson, Kenneth E.; Mathews, James R.; and Von Ohlsen, Louis H., Jr., 3,669,768.
 Beauchamp, Richard Lawrence, 3,653,967.
 Beccone, John Peter; Kurokawa, Kaneyuki; and Schlosser, Wolfgang Otto, 3,656,069.
 Becker, Floyd Kenneth; Dimmick, James Owen; Lewis, Theras Gordon; and O'Neill, John Francis, 3,668,318.
 Behn, Joseph W., 3,701,848.
 Berg, Anthony David, 3,697,682.
 Bergh, Arpad, 3,648,654.
 Bergh, Arpad Albert; and Paola, Carl Ralph, 3,665,888.
 Bergh, Arpad Albert; Paola, Carl Ralph; and Saul, Robert H., 3,690,965.
 Bergland, Glenn D.; and Wilson, Donald E., 3,662,161.
 Berglund, Carl Neil; and Nicollian, Edward Haig, 3,648,122.
 Berglund, Carl Neil; and Boll, Harry Joseph, 3,660,697.
 Bergman, John George, Jr.; and McFee, James Hoffman, 3,665,206.
 Bergman, John George, Jr.; McFee, James Hoffman; and Tien, Ping King, 3,694,055.
 Berkley, David Arthur; Mitchell, Olga Mary Mracek; and Pierce, John Robinson, 3,699,271.
 Berreman, Dwight W., 3,652,150.
 Berthold, John W., III, 3,637,294.
 Beurrier, Henry R.; and Seidel, Harold, 3,638,134.
 Beurrier, Henry Richard; and Seidel, Harold, 3,667,065.
 Beurrier, Henry Richard, 3,675,145.
 Beurrier, Henry Richard, 3,676,790.
 Beurrier, Henry Richard, 3,700,832.
 Beuscher, Hugh Jacob; Nelson, Donald Robert; Sisson, William Howard; and Toy, Wing Noon, 3,638,184.
 Biazzo, Martin Robert; King, Bernard George; and Ortel, William Charles Gormley, 3,678,574.
 Bitler, Jesse S., 3,696,421.
 Bobeck, Andrew H.; and Van Uitert, Le Grand Gerard, 3,643,238.
 Bobeck, Andrew Henry, 3,644,908.
 Bobeck, Andrew Henry; Smith, David Herbert; Spencer, Edward Guerrant; and Van Uitert, Le Grand Gerard, 3,646,529.
 Bobeck, Andrew Henry; Sherwood, Richard Curry; and Van Uitert, Le Grand Gerard, 3,665,427.
 Bobeck, Andrew Henry, 3,676,870.
 Bobeck, Andrew Henry, 3,689,901.
 Bobeck, Andrew Henry; Ciak, Frank John; and Strauss, Walter, 3,702,995.
 Bobeck, Andrew Henry; and Scovil, Henry Evelyn Derrick, 3,703,712.
 Bobeck, Andrew Henry; Kowalchuk, Roman; and Reekstin, John Peter, Jr., 3,706,081.
 Bobeck, Andrew Henry; and Danylchuk, Irynej, 3,706,082.
 Bobeck, Andrew Henry; and Levinstein, Hyman Joseph, 3,701,127.
 Bonner, William Adam, 3,653,814.
 Bonner, William Adam; Singh, Shobha; and Van Uitert, Le Grand Gerard, 3,679,907.
 Bonnyhard, Peter Istvan; and Nelson, Terence John, 3,701,132.
 Boore, Edward Joseph; and Sutter, Delos Mason, 3,636,755.
 Bopp, George Ellsworth; and Wiese, Larry Lee, 3,638,149.
 Borsuk, Michael Howard; and Browne, Paul Nolan, 3,691,486.
 Borsuk, Michael Howard; and Ritsopoulos, Sotirios Constantine, 3,700,793.
 Boyd, Gary Delane; Buehler, Ernest; and Gandrud, William Bentley, 3,675,039.
 Brady, Douglas MacPherson, 3,633,107.
 Braga, Felix J., 3,633,122.
 Brandes, Raymond G.; and Pleass, Charles M., 3,635,824.
 Brandes, Raymond G.; and Pleass, Charles M., 3,700,857.
 Braun, Arthur Rechtman, 3,656,180.
 Braun, Edwin Julius; Maxon, Rodney Robert; Meise, Henry August, Jr.; Taylor, George William; and Witmore, Ronald Kirk, 3,679,834.
 Breen, Charles, 3,637,947.
 Brewer, Sherman Theodore, 3,676,613.
 Bridenbaugh, Paul Michael; Carruthers, John Robert; and Nash, Franklin Richard, 3,665,205.
 Bridges, Thomas James; Kaminow, Ivan Paul; and Pollack, Martin Alan, 3,644,846.
 Bridwell, John Dewey; and Wadsworth, Donald van Zelm, 3,652,993.
 Briley, Bruce Edwin, 3,694,666.
 Brojdo, Samuel, 3,676,715.
 Brojdo, Samuel, 3,686,645.
 Brown, Earl Franklin; and Kaminski, William, 3,657,550.
 Brown, Earl Franklin; and Kaminski, William, 3,689,840.
 Bruckenstein, Stanley; and Miller, Barry, 3,663,889.
 Brurrier, Henry Richard, 3,694,765.
 Bryant, Herbert William, 3,700,938.
 Bukosky, Allen A.; Flavin, Michael A.; Hill, Donald G.; Huizinga, Donald D.; and Ritchey, James F., 3,670,111.
 Burckhardt, Christoph B.; and Doherty, Edward T., 3,676,130.
 Burns, Thomas V.; Catterall, John M.; Elliott, Gary L.; and Fenstermaker, Ronald E., 3,643,034.
 Burton, Herbert O.; Reddy, Sudhakar M.; Sullivan, Daniel D.; and Tong, Shih Y., 3,638,182.
 Burton, Herbert O., 3,648,236.
 Bush, Stanley E.; Olson, David T.; and Saltus, George E., 3,649,761.
 Busick, Richard Cobbald; and Masucci, Eugene Daniel, 3,655,921.
 Butherus, Alexander Duane; and Newby, Kenneth Russ, 3,700,975.
 Buus, Robert George, 3,679,984.
 Buzzard, Clair A.; Pasternack, Gerald P.; and Saltzberg, Burton R., 3,649,759.
 Buzzard, Clair A.; and Saltzberg, Burton R., 3,689,844.
 Byrnes, Peter A., Jr.; and Lepselter, Martin P., 3,661,747.
 Candy, James Charles; Franke, Gladys Marie; and Mounts, Frank William, 3,670,096.
 Carbrey, Robert L., 3,651,515.
 Carbrey, Robert Lawrence, 3,651,518.
 Carbrey, Robert Lawrence, 3,653,030.
 Carbrey, Robert Lawrence, 3,653,035.
 Carlson, Herbert Neil, 3,676,786.
 Casey, Horace Craig, Jr.; and van Roosbroeck, Willy Werner, 3,697,834.
 Chandross, Edwin Arthur; Fork, Richard Lynn; Lamola, Angelo Anthony; and Tomlinson, Walter John, III, 3,668,663.
 Chandross, Edwin Arthur; Fork, Richard Lynn; Kaminow, Ivan Paul; and Tomlinson, Walter John, III, 3,689,264.
 Chang, Chuas Chung; Marcus, Robert Boris; and Wagner, Richard Siegfried, 3,687,745.
 Chang, Robert Wu-Lin, 3,697,897.
 Chang, William Shen Chie, 3,655,261.
 Chase, Eugene W.; and Robinson, Harold J., 3,668,089.
 Chen, Fang-Shang; and Kinsel, Tracy Stewart, 3,638,024.
 Chen, William I-Hsuan, 3,652,952.
 Cheney, Glen Trenton; and King, Ernarn Fillmore, 3,668,438.
 Chesler, Ronald Benjamin; and Maydan, Dan, 3,680,000.
 Chesler, Ronald Benjamin; and Geusic, Joseph Edward, 3,684,893.
 Chester, Arthur N.; Kahng, Dawon; and Kosicki, Bernard B., 3,649,867.
 Chin, Gilbert Y.; and Hart, Robert R., 3,663,311.
 Chow, Woo Fong, 3,638,208.
 Chow, Woo Fong, 3,646,530.
 Chow, Woo Fong, 3,678,287.
 Chow, Woo Fong, 3,680,067.
 Chow, Woo Fong, 3,689,751.
 Coker, Cecil Harold; and Umeda, Noriko, 3,704,345.
 Coleman, Donald James, Jr.; and Sze, Simon Min, 3,673,514.
 Combs, Donald Earle, 3,701,937.
 Comella, William K., 3,652,804.
 Condon, Joseph Henry; and Hagelbarger, David William, 3,646,402.
 Copeland, John A., III, 3,649,932.
 Copeland, John Alexander, III, 3,636,531.
 Copeland, John Alexander, III, 3,638,205.
 Copeland, John Alexander, III, 3,641,518.
 Copeland, John Alexander, III, 3,653,010.

- Copeland, John Alexander, III, 3,668,667.
 Copeland, John Alexander, III, 3,676,871.
 Copeland, John Alexander, III, 3,678,478.
 Copeland, John Alexander, III, 3,680,066.
 Copeland, John Alexander, III, 3,696,347.
 Copeland, John Alexander, III, 3,699,548.
 Copeland, John Alexander, III, 3,701,128.
 Copeland, John Alexander, III, 3,701,129.
 Corby, William Joseph; Garbarini, Victor Charles; and White, Malcolm Lunt, 3,673,099.
 Courtney-Pratt, Jeffrey Stuart, 3,665,237.
 Coyne, James Christopher; and Smith, Arnold Ray, 3,642,076.
 Curran, Robert Kryan; and Kerwin, Robert E., 3,631,772.
 Curran, Robert Kryan; and Rankel, Lillian Ann, 3,660,090.
 Curran, Robert Kryan; Kerwin, Robert Eugene; and Shankoff, Theodore Arthur, 3,655,527.
 Curtis, Hazen, III; and Tuchen, Gerd Achim, 3,684,993.
 Curtis, Robert Bartlett, 3,649,768.
 Dalley, James Edwin, 3,700,926.
 Dalley, James Edwin; and Tsao-Wu, Nelson Tsin, 3,700,927.
 Dalton, John Vincent; and Labuda, Edward Franklin, 3,676,727.
 Dala, Stephen Attila, 3,681,622.
 Dammann, Carl Leslie; and Saal, Frederick Alan, 3,660,768.
 Danielmeyer, Hans Guenter, 3,633,124.
 Danielmeyer, Hans Guenter, 3,675,156.
 Danielmeyer, Hans Guenter, 3,676,799.
 Danielmeyer, Hans Guenter, 3,697,888.
 Daniels, Richard W., 3,644,851.
 Danylchuk, Irynej, 3,633,185.
 Danylchuk, Irynej; and Michaelis, Paul Charles, 3,651,496.
 Davis, Paul C., 3,649,850.
 Dawson, Robert William, 3,666,960.
 De Fabritis, Raymond P.; Fefferman, Gerald Burt; Gesner, Bruce David; and Radner, Raymond John, 3,699,552.
 De Lange, Owen Edward, 3,676,684.
 De Loach, Herman Holmes, 3,656,179.
 De Veau, George Frank, Jr.; Nutt, Wendell Glenn; and Webster, George Harry, 3,662,367.
 Deak, James N., 3,650,498.
 Deisch, Cecil Winston, 3,696,253.
 DeLange, Owen Edward, 3,691,387.
 Dembiak, Matthew R.; and Webster, George H. (said Webster assor. to), 3,703,605.
 Dembiak, Matthew Raymond; and Webster, George H. (said Webster assor. to), 3,679,503.
 Den, Chi Fu, 3,646,481.
 Dick, George Wilmer, 3,689,912.
 Dillon, Joseph F., Jr.; Gyorgy, Ernst M.; and Remeika, Joseph P., 3,637,289.
 Dillon, Joseph F., Jr.; and Garrett, Charles G. B., 3,639,855.
 Dimmick, James Owen, 3,689,896.
 Doddington, George Rowland; Flanagan, James Loton; and Lummis, Robert Carl, 3,700,815.
 Dorr, Robert Charles, 3,699,322.
 Downing, Randall W.; Nowak, John S.; Taylor, Frank F.; and Ulrich, Werner, 3,651,480.
 Drechsler, Rudolph Charles, 3,698,631.
 Driscoll, John Joseph, 3,634,633.
 Duguay, Michel Albert, 3,669,541.
 Duguay, Michel Albert, 3,671,747.
 Duguay, Michel Albert; and Hansen, John Wilfred, 3,675,154.
 Duncan, Robert Stanwood, 3,639,038.
 Dunn, Eugene Blair; Masavage, Gerald James; and Sauer, Harold Alfred, 3,653,222.
 Dymont, John C.; Paoli, Thomas L.; and Ripper, Jose' E., 3,654,497.
 Dymont, John C.; and Ripper, Jose' E., 3,688,388.
 Dynes, Robert Carr; and Fulton, Theodore Alan, 3,706,064.
 Earle, Harold Westly; and Shelton, Douglas Sidney, 3,689,711.
 Earp, Ronald Lee, 3,654,491.
 Ebbe, Grace Lakin; and Marki, Gustav Paul, 3,703,610.
 Egerton, Lawson; and Thomson, John, Jr., 3,639,132.
 Eilenberger, Robert Lewis, 3,668,304.
 Eisenlohr, Dieter Moritz; and Romero, Roderic, 3,701,863.
 Embree, Milton L.; and Huber, William R., III, 3,648,170.
 Emshwiller, MacLellan, 3,706,881.
 English, Alan Taylour; and Turner, Paul Anthony, 3,676,214.
 Enloe, Louis H.; and Larsen, Arthur B., 3,644,665.
 Enloe, Louis H., 3,647,946.
 Erdman, William Charles, 3,674,580.
 Fabiano, Lucian Philip, Jr., 3,637,939.
 Fabiano, Lucian Philip, Jr.; Grandmaison, John Paul; Greason, William Wallace, III; and King, Ted R., Jr., 3,647,980.
 Fefferman, Gerald B., 3,653,946.
 Fefferman, Gerald Burt, 3,676,087.
 Feldman, Martin; and Heiter, George Ludwig, 3,675,025.
 Fenton, Francis Michael, 3,668,289.
 Fenton, Francis Michael, 3,691,310.
 Fischer, Robert Frederick, 3,699,551.
 Fisher, George M. C., 3,647,406.
 Fisher, George Myles Cordell; Froehlich, Fritz Edgar; Levin, William; McDowell, Blake, III; and O'Boyle, Leonard Edward, 3,706,850.
 Flanagan, James Loton, 3,662,108.
 Flanagan, James Loton; Kronmeyer, James Hughes; and Nelson, John Richard, 3,675,513.
 Flanagan, James Loton, 3,703,688.
 Forst, Steve Michael; and Reinheimer, Horst Alfred, 3,676,741.
 Foxhall, George Frederic; and Moline, Robert Alan, 3,638,300.
 Frank, Gerard A.; Kipp, Karl F.; and Oswald, Donald R. (said Oswald assor. to), 3,664,872.
 Fraser, David Bruce, 3,701,121.
 Freund, Isaac; and Levine, Barry F., 3,688,124.
 Fritsch, Walter William, 3,700,822.
 Fritz, Joseph Henry; and Johns, Thomas Gerald, 3,693,417.
 Fritzinger, Larry B.; and Lepselter, Martin P., 3,647,585.
 Fuchs, Edward O.; and Swisher, James H., 3,647,573.
 Gallagher, John Everett; and Herriott, Donald Richard, 3,694,088.
 Gans, Michael James; and Reudink, Douglas Otto John, 3,662,268.
 Garrison, Jedediah Lyman; and Georgiades, Andrew Nicholas, 3,704,433.
 Gerstenberg, Dieter; and Smith, Frank Thomas John, 3,647,662.
 Geusic, Joseph E.; and Van Uitert, Le Grand Gerard, 3,634,614.
 Geusic, Joseph Edward; Ostermayer, Frederick William, Jr.; and Van Uitert, Le Grand Gerard, 3,654,463.
 Geusic, Joseph Edward; Nelson, Terence John; and Schinke, David Paul, 3,701,122.
 Giesken, Kenneth F., 3,637,945.
 Giordmaine, Joseph A., 3,636,356.
 Glance, Bernard, 3,653,046.
 Glaser, Arthur B., 3,632,888.
 Glass, Alastair Malcolm; and Peterson, George Earl, 3,700,912.
 Glass, Alastair Malcolm; and Peterson, George Earl, 3,703,328.
 Glinski, Vincent J.; and Murphy, Bernard T., 3,653,988.
 Glinski, Vincent J., 3,701,198.
 Gloge, Detlef Christoph, 3,653,738.
 Gloge, Detlef Christoph, 3,675,985.
 Goell, James E., 3,638,125.
 Goell, James E., 3,660,764.
 Goldrick, Michael Richard; Kerwin, Robert Eugene; and Skinner, John George, 3,674,492.
 Goldthorp, David Clayton; Limiero, Albert David; and Smith, John Paul, 3,676,608.
 Golembeski, John Joseph, 3,694,761.
 Goodman, David Joel, 3,652,957.
 Graham, Bobby Eagle, 3,654,573.
 Grandle, James Arthur, Jr., 3,691,320.
 Grandle, James Arthur, Jr., 3,694,587.
 Greason, William Wallace, III; and Weiner, David William, 3,697,700.
 Greason, William Wallace, III; and Weiner, David William, 3,697,701.
 Griffiths, James Edward, 3,674,696.
 Grodkiewicz, William H.; Singh, Shobha; and Van Uitert, Le Grand Gerard, 3,659,136.
 Grodkiewicz, William H.; and Van Uitert, Le Grand Gerard, 3,667,921.
 Groth, George Stephen, 3,702,008.
 Gummel, Hermann Karl, 3,683,417.
 Gyorgy, Ernst M.; Sherwood, Richard C.; and Van Uitert, Le Grand Gerard, 3,648,260.
 Haas, Charles William, Jr., 3,662,125.
 Hackett, William H., Jr.; Schaffetter, Donald L.; and Varnerin, Lawrence J., Jr., 3,669,767.
 Hagelbarger, David William, 3,701,112.
 Hakki, Basil W., 3,648,120.
 Hakki, Basil W., 3,654,476.
 Halpern, Samuel Walter, 3,679,832.
 Hamilton, Billy Harold, 3,644,787.
 Hamilton, Billy Harold, 3,675,037.
 Hamrick, Harold E., 3,637,946.
 Hansen, Eric Lowell; McNoldy, Larry Benjamin; and Pohl, Karl-Heinz, 3,705,377.
 Hansen, John Wilfred, 3,637,287.
 Hara, Katsuyuki; and Schonhorn, Harold, 3,676,289.
 Hardesty, Edwin C.; Krumreich, Charles L.; Mulbarger, Albert E., Jr.; and Walen, Stephen W., 3,699,498.
 Harding, Philip A.; and Karaft, George D., 3,633,184.
 Harms, David A., 3,638,219.
 Harrigan, Thomas George, 3,652,919.
 Hart, Harry Patrick; Kakalec, Robert John; and Walk, Ralph, 3,699,424.
 Haskell, Barin G.; and Limb, John O., 3,632,865.
 Hawkins, Walter L., 3,668,298.
 Hayashi, Izjo, 3,691,476.
 Healey, Anthony John, 3,670,753.
 Healey, Robert Joseph; and Planey, Joseph, 3,651,470.

Healey, Robert Joseph; and Stocker, Helmut, 3,652,922.
 Healey, Robert Joseph, 3,668,539.
 Heightley, John Donnell; and Waaben, Sigurd Gunther, 3,693,173.
 Heightley, John Donnell, 3,700,874.
 Henry, James L.; and Schimpf, Luther G., 3,671,676.
 Herriott, Donald Richard; and Rawson, Eric Gordon, 3,677,651.
 Hewitt, Richard C.; and Meiboom, Saul, 3,651,396.
 Hirsch, Donald, 3,648,171.
 Hirsch, Peter, 3,670,335.
 Hoffman, Harold Henry, 3,678,396.
 Holland, John Rickman, 3,665,410.
 Holm, Barry Douglas; and Senese, Daniel John, 3,649,963.
 Howson, Robert D., 3,679,977.
 Hubbauer, Philip Clark; and McHenry, Edwin John, 3,678,178.
 Hughes, Harry E., Jr.; Morton, Jack A.; and Wachs, Meyer H., 3,692,168.
 Hunter, Paul Douglas; and Machol, Richard Erving, Jr., 3,701,096.
 Illig, Howard Clayton; Lehder, Wilfred Emile, Jr.; Parker, James Daniel, III; Santacrocce, Alfred Michael; and Sheridan, James Arthur, 3,698,533.
 Inose, Hiroshi; and Saito, Tadao, 3,632,884.
 Inose, Hiroshi; Saito, Tadao; Tokunaga, Takehisa; and Tomizawa, Kenji, 3,692,942.
 Inose, Hiroshi; and Saito, Tadao, 3,694,580.
 Ippen, Erich Peter; Patel, Chandra Kumar Naranbhai; and Stolen, Rogers Hall, 3,705,992.
 Irish, Carleton D.; and Painkin, Harold, 3,641,475.
 Irish, Carleton D., 3,701,076.
 Irvin, John Calhoun, 3,655,540.
 Jaccodine, Ralph James, 3,693,251.
 Jacisin, Joseph Michael; and Tropello, Sam Duane, 3,697,089.
 James, Charles Fitzhugh; Robertson, Ralston Hodges, Jr.; and Warnock, Merville Lee, 3,660,729.
 Jetzt, John J., 3,676,589.
 Joel, Amos Edward, Jr., 3,652,803.
 Joel, Amos Edward, Jr., 3,663,762.
 Joel, Amos Edward, Jr., 3,673,335.
 Johnson, Glover Douglas, 3,636,262.
 Josenhans, James Gross, 3,652,931.
 Judd, Frank Fuller; Lieberman, Jan Mark; and Wilhart, Helmut, 3,638,096.
 Judd, Frank Fuller; Lieberman, Jan Mark; and Wilhart, Helmut, 3,660,753.
 Judd, Frank Fuller; and Wilhart, Helmut, 3,675,158.
 Judd, Frank Fuller; Lieberman, Jan Mark; and Wilhart, Helmut, 3,675,159.
 Kadri, Fred Vassaf, 3,660,749.
 Kahn, Frederic Jay, 3,694,053.
 Kahng, Dawon; and Nicollian, Edward Haig, 3,651,349.
 Kahng, Dawon, 3,700,932.
 Kalberman, Louis Werner, 3,641,648.
 Kaminow, Ivan P., 3,637,929.
 Kaminow, Ivan P., 3,647,277.
 Kaminow, Ivan Paul, 3,670,166.
 Kaminow, Ivan Paul; and Weber, Heinz Paul, 3,675,157.
 Kaminski, William, 3,646,364.
 Kaneko, Hisashi, 3,678,504.
 Kao, Chih-Yu; Kurth, Carl Ferdinand; and Maclean, Roderick Campbell, 3,633,129.
 Kao, Chih-Yu; and Kurth, Carl F., 3,663,898.
 Kempf, Raymond Andrew, 3,693,114.
 Kerwin, Robert E., 3,647,457.
 King, Michael C., 3,632,866.
 King, Michael Charles, 3,632,184.
 King, Michael Charles, 3,690,881.
 Kinsel, Tracy Stewart, 3,652,858.
 Kinsel, Tracy Stewart, 3,670,165.
 Kinsel, Tracy Stewart, 3,699,445.
 Kish, Donald Eugene; and Smith, James Lanson, 3,697,963.
 Kish, Donald Eugene; and Smith, James Lanson, 3,702,994.
 Klein, Marvin Bertrand; and Sosnowski, Thomas Patrick, 3,663,892.
 Klein, Marvin Bertrand; and Silfvast, William Thomas, 3,694,767.
 Kneuer, Joseph G., 3,633,108.
 Knight, Stephen., 3,648,110.
 Knollman, Dieter John Henry, 3,651,272.
 Knollman, Dieter John Henry; Metz, Robert Forcier; and Reynolds, Howard Lloyd, 3,660,611.
 Knollman, Dieter John Henry; and Simon, James Louis, 3,671,942.
 Knowlton, Kenneth Charles, 3,703,727.
 Kogelnik, Herwig Werner, 3,653,747.
 Kogelnik, Herwig Werner, 3,674,332.
 Kogelnik, Herwig Werner, 3,674,336.
 Kogelnik, Herwig Werner; and Shank, Charles Vernon, 3,675,990.
 Koo, James T., 3,633,182.

Koontz, Donald Eldridge; Schoenberg, Leonard Norman; and Turner, Dennis Robert, 3,654,095.
 Korn, Franklin Adam, 3,673,339.
 Kotech, Robert Alan, 3,646,442.
 Krambeck, Robert H.; Panousis, Peter T.; and Strain, Robert J., 3,654,531.
 Krambeck, Robert Harold, 3,665,214.
 Krause, John T., 3,651,431.
 Krause, John Thorvald; and Kurkjian, Charles Robert, 3,655,255.
 Kreuzer, Lloyd Barton, 3,700,890.
 Kropfl, Walter Joseph, 3,680,056.
 Kubik, Peter S., 3,650,023.
 Kuhn, Matthew; and Schumaker, Norman Edwin, 3,667,004.
 Kuhn, Matthew, 3,668,523.
 Kurth, Carl Ferdinand, 3,676,598.
 La Macchia, John Thomas, 3,675,983.
 La Marche, Robert Ernest; and May, Carl Jerome, Jr., 3,673,355.
 Laane, Rein Raymond, 3,655,919.
 Laane, Rein Raymond, 3,655,920.
 Laane, Rein Raymond, 3,701,017.
 LaMarche, Robert E., 3,649,766.
 Larsen, Arthur B., 3,636,249.
 Larsen, Arthur Bertel; Sosnowski, Thomas Patrick; and Townsend, Richard Lee, Jr., 3,681,519.
 Larsen, Arthur Bertel, 3,699,241.
 Lawrence, Thomas R.; and Saltzberg, Burton R., 3,697,892.
 Lawrence, Thomas Russell, 3,674,935.
 Leheny, Robert Francis; and Shay, Joseph Leo, 3,636,354.
 Leifer, Noel Arthur; and Schramm, Eugene Charles, 3,666,057.
 Leifer, Noel Arthur; and Ott, Henry Walter, 3,697,016.
 Lemp, John, Jr.; and Meadors, Howard Clarence, Jr., 3,633,014.
 Lepselter, Martin P.; and MacRae, Alfred U., 3,652,908.
 Lepselter, Martin P., 3,663,279.
 Lepselter, Martin Paul, 3,669,730.
 Levinstein, Hyman Joseph; Singh, Shobha; and Van Uitert, Le Grand Gerard, 3,657,090.
 Lewis, Theras Gordon, 3,692,947.
 Limb, John Ormond; and Mounts, Frank William Colts, 3,662,266.
 Lin, Lawrence H., 3,639,031.
 Lindenmeyer, Michael Edward, 3,699,485.
 Logan, Ralph Andre; White, Harry Gregory; and Wiegmann, William, 3,646,406.
 Long, Norwood G.; and May, Carl J., Jr., 3,681,533.
 Loosme, Oskar, 3,638,163.
 Lowry, Terrell Nicholson, 3,673,524.
 Lundgren, Carl William, Jr., 3,706,037.
 Lutchansky, Milton; and Rhines, Warren Joseph, 3,677,371.
 Lutchansky, Milton, 3,698,816.
 Lynes, Dennis Joseph, 3,643,230.
 Lynes, Dennis Joseph; and Mar, Jerry, 3,699,540.
 Lynes, Dennis Joseph; and Mar, Jerry, 3,699,541.
 Lynes, Dennis Joseph; and Mar, Jerry, 3,699,542.
 Mac Nair, Donald, 3,653,960.
 Mac Pherson, William Frederick, 3,656,161.
 Mahoney, John Thomas; and Tjaden, Garold Stephen, 3,654,517.
 Maione, Theodore Lincoln, 3,651,284.
 Maldonado, Juan Ramon; and Meitzler, Allen Henry, 3,659,270.
 Maldonado, Juan Ramon; and Meitzler, Allen Henry, 3,663,088.
 Maldonado, Juan Ramon, 3,695,747.
 Mandrews, John Marshall, Jr., 3,665,218.
 Mar, Jerry, 3,650,020.
 Marcatali, Enrique A. J., 3,633,123.
 Marcatali, Enrique Alfredo Jose, 3,659,916.
 Marcatali, Enrique Alfredo Jose, 3,666,348.
 Marcatali, Enrique Alfredo Jose, 3,674,337.
 Marcus, Michael Jay, 3,700,819.
 Marino, Patrick John, 3,705,267.
 Markevich, John Anthony, 3,701,028.
 Martin, Robert Lanham, 3,683,418.
 Mason, Warren Perry, 3,676,805.
 May, Carl Jerome, Jr., 3,706,091.
 Maybach, Richard Lee, 3,665,304.
 Maydan, Dan, 3,703,687.
 Mc Coy, Robert Gordon, 3,662,670.
 McIlroy, Malcolm D., 3,634,882.
 McKell, Lynn J., 3,699,477.
 McKiernan, Dennis Lester, 3,675,127.
 Mecklenberg, Paul, 3,699,516.
 Meek, Ronald Lee, 3,642,593.
 Meek, Ronald Lee, 3,661,741.
 Meyers, Stanley Thayer, 3,638,133.
 Michaelis, Paul Charles, 3,675,298.
 Mildonian, Harry Astour, Jr., 3,649,915.
 Miller, Calvin Max; and Sacks, Robert Charles, 3,671,662.
 Miller, Stewart Edward; and Personick, Stewart David, 3,687,514.

Miller, Stewart Edward, 3,702,975.
 Mitchell, Olga M. M.; Ross, Carolyn A.; and Wallace, Robert L., Jr., 3,644,674.
 Molchan, Andrew John, 3,673,357.
 Montgomery, William Lloyd, 3,688,097.
 Montgomery, William Lloyd, 3,699,273.
 Morris, Joel Morton, 3,688,047.
 Morrow, John Phillip, 3,665,171.
 Moschitz, George Samson, 3,679,987.
 Mueller, Kurt Hugo, 3,676,804.
 Mullin, Francis Joseph; and Ramsey, Raymond Bolton, 3,660,613.
 Murphy, Bernard T., 3,649,386.
 Murray, Robert W.; and Story, Paul R., 3,676,394.
 Nash, Donald H.; Nenninger, Theodore P.; and Prescott, Robert E., 3,676,607.
 Nelson, Donald Frederick, 3,665,204.
 Newby, Kenneth Russ; and Turner, Dennis Robert, 3,700,569.
 Newell, John Anthony, 3,678,393.
 Ngo, Dinh-Tuan, 3,645,604.
 Ngo, Dinh-Tuan, 3,651,493.
 Ngo, Dinh-Tuan, 3,651,509.
 Ngo, Dinh-Tuan, 3,671,938.
 Nguyen, Van-Tran; and Shah, Jagdeep Chandravan, 3,679,994.
 Ninke, William H., 3,653,001.
 North, James Clayton; and Pruniaux, Bernard Roger, 3,700,978.
 Nussbaum, Eric; Toy, Wing Noon; and Woinsky, Melvin Neil, 3,678,467.
 Nutt, Wendell Glenn, 3,679,810.
 Oberst, James Francis, 3,693,099.
 O'Brien, Kevin C., 3,704,410.
 O'Brien, Kevin Christopher, 3,675,136.
 Ohm, Edward Allen; Ring, Douglas Harned; and Tranbarulo, Ralph Francis, 3,666,350.
 Okinaka, Uutaka, 3,700,469.
 Opferman, David Clement; and Tsao-Wu, Nelson Tsin, 3,638,193.
 O'Regan, Richard, 3,698,788.
 Orr, William H., 3,665,346.
 Ortel, William Charles Gormley, 3,694,052.
 Ortel, William Charles Gormley, 3,695,875.
 Osborne, Thomas Lawrence, 3,680,108.
 O'Shea, Thomas Edward, 3,651,344.
 Ostermayer, Frederick William, Jr., 3,663,893.
 Padowicz, Henry N., 3,638,306.
 Panish, Morton B.; and Sumski, Stanley, 3,677,228.
 Paoli, Thomas L.; and Ripper, Jose E., 3,641,459.
 Paoli, Thomas Lee; and Ripper, Jose Ellis, 3,680,001.
 Paoli, Thomas Lee; and Ripper, Jose Ellis, 3,696,310.
 Paoli, Thomas Lee; and Ripper, Jose Ellis, 3,701,044.
 Papadakis, Emmanuel P., 3,638,145.
 Papadakis, Emmanuel P., 3,664,902.
 Pasternack, Gerald P., 3,656,122.
 Pasternack, Gerald Philip; and Saltzberg, Burton R., 3,636,454.
 Patel, Chandra Kumar Naranbhai, 3,639,775.
 Patel, Chandra Kumar Naranbhai, 3,657,666.
 Patel, Chandra Kumar Naranbhai, 3,691,388.
 Pento, Frank Louis, 3,671,875.
 Perks, Arthur Francis, 3,641,463.
 Peters, Frank Groom; Sinclair, William Robert; and Sullivan, Miles Vincent, 3,650,921.
 Peters, Frank Groom; Sinclair, William Robert; and Sullivan, Miles Vincent, 3,669,863.
 Peters, Theodore Richmond, 3,678,463.
 Peters, Theodore Richmond, 3,678,464.
 Peters, Theodore Richmond, 3,701,109.
 Peterson, Gerald Henry, 3,676,597.
 Pinnow, Douglas A.; and Van Uitert, Le Grand Gerard, 3,699,478.
 Pinnow, Douglas Arthur; and Van Uitert, Le Grand Gerard, 3,652,956.
 Pinnow, Douglas Arthur; and Van Uitert, Le Grand Gerard, 3,691,482.
 Pitetti, Raymond C.; and Zuber, Theodore W., Jr., 3,649,488.
 Pitetti, Raymond Charles; and Worobey, Walter, 3,671,823.
 Pleass, Charles M., 3,647,537.
 Porter, Roy A., 3,669,775.
 Porter, Roy Arlie, 3,657,030.
 Pratt, Jeffery Stuart Courtney, 3,679,818.
 Quinn, Thomas M., 3,636,264.
 Rabiner, Lawrence R.; and Schafer, Ronald W., 3,649,765.
 Rainal, Attilio Joseph, 3,699,450.
 Ratliff, Earl Truman; and Renaut, Paul William, 3,689,722.
 Remeika, Joseph Peter, 3,689,415.
 Ren, Chung-Li; and Wang, Han-Chiu, 3,668,564.
 Retajczyk, Theodore Frank, Jr., 3,676,240.
 Reynolds, Howard Lloyd, 3,701,855.
 Richards, Philip C., 3,680,081.
 Robbins, Murray; and Wolfe, Raymond, 3,640,864.
 Robertson, Ralston Hodges, Jr., 3,668,290.

Rongved, Leif, 3,659,473.
 Rosenberg, Robert, 3,679,313.
 Rubin, Harvey, 3,647,979.
 Runge, Peter Klaus, 3,656,068.
 Runge, Peter Klaus, 3,701,584.
 Rupp, Louis William, Jr.; and Walsh, Walter Michael, Jr., 3,691,453.
 Rushton, John R., 3,674,498.
 Rustako, Anthony Joseph, Jr.; and Yeh, Yu Shuan, 3,693,088.
 Ruthroff, Clyde Leslie, 3,651,429.
 Ryan, Francis W.; and Schonhorn, Harold, 3,635,938.
 Saari, Veikko Reynold, 3,651,350.
 Saltzberg, Burton R., 3,671,670.
 Saul, Robert H., 3,690,964.
 Savage, Bruce Russell, 3,700,821.
 Scarborough, Paul Edward, Jr.; and Watson, David Stuckey, 3,651,508.
 Schimpf, Luther G., 3,660,620.
 Schmidt, Robert Benjamin; Smith, George Wallace, Jr.; and Walford, Robert Bernard, 3,702,010.
 Schneider, Herbert Anton, 3,679,914.
 Schroeder, Manfred Robert, 3,679,821.
 Schroeder, Paul Robert, 3,638,202.
 Schuster, Paul Alfred, 3,706,076.
 Seidel, Harold, 3,637,288.
 Seidel, Harold, 3,637,292.
 Seidel, Harold, 3,649,927.
 Seidel, Harold, 3,656,831.
 Seidel, Harold, 3,675,164.
 Seidel, Harold, 3,701,950.
 Seidel, Harold, 3,706,046.
 Sell, Darrell Dean, 3,669,547.
 Sergio, John Robert, Jr., 3,668,691.
 Sessler, Gerhard M.; and West, James Edward, 3,644,605.
 Sessler, Gerhard Martin; and West, James Edward, 3,652,932.
 Sessler, Gerhard Martin; Wallace, Robert Lee, Jr.; and West, James Edward, 3,668,417.
 Sessler, Gerhard Martin; and West, James Edward, 3,705,312.
 Shankoff, Theodore Arthur; and Stanionis, Constance Veronica, 3,660,091.
 Sharpe, Louis H.; Shroff, Jayant R.; and Vaccaro, Frank J., 3,652,340.
 Shively, Richard Robert, 3,701,976.
 Shoap, Stephen Davis, 3,646,451.
 Shoap, Stephen Davis, 3,675,236.
 Shoji, Masakazu, 3,659,158.
 Sikorsky, Michael F., 3,633,181.
 Sikorsky, Michael Frank; and Voigt, Herman Ewald, 3,632,889.
 Singh, Shobha; and Van Uitert, Le Grand Gerard, 3,676,695.
 Slana, Matthew Francis, 3,668,291.
 Smith, David H.; and Van Uitert, Le Grand Gerard, 3,638,207.
 Smith, George Elwood, 3,654,499.
 Smith, George Elwood, 3,675,319.
 Smith, George Elwood, 3,697,786.
 Smith, John Ineson, 3,646,483.
 Smith, Peter William, 3,644,841.
 Smith, Phillip Hagar, 3,683,394.
 Sondhi, Man M., 3,679,020.
 Spaulding, David Adams, 3,646,480.
 Spencer, Robert Graham, 3,646,520.
 Stapleton, Richard Joseph, 3,701,849.
 Starratt, William Roswell, 3,701,851.
 Stone, Julian, 3,697,757.
 Stone, Julian, 3,699,463.
 Subramanian, Mahadevan, 3,706,931.
 Swanson, Richard Maurice, 3,705,959.
 Swerdlow, Richard Barry, 3,693,109.
 Tentarelli, Kenneth D., 3,668,510.
 Tewsbury, Stuart Keene, 3,706,944.
 Thelemaque, Louis Emanuel, 3,692,943.
 Thelen, William, 3,702,921.
 Theriot, Eugene Joseph, 3,679,983.
 Thiele, Alfred Almstedt, 3,638,206.
 Thomas, Edmond J.; and Unrue, John E., Jr., 3,632,905.
 Thomas, Edmond Joseph, 3,647,992.
 Thompson, John Stewart, 3,649,763.
 Tolk, Norman Henry; and White, Clark Woody, 3,644,044.
 Torok, Gabor Peter, 3,646,428.
 Torok, Gabor Peter, 3,699,258.
 Torok, Gabor Peter, 3,705,328.
 Tranbarulo, Ralph Francis, 3,702,722.
 Trimble, David Carlaw, 3,671,939.
 Tuchen, Gerd Achim, 3,668,565.
 Tutelman, David Morris, 3,670,308.
 Tyson, John Anthony, 3,657,927.
 Ulrich, Werner; and Vigilante, Frank S., 3,643,032.
 Van Dine, Gilbert August, 3,673,519.
 Van Duyn, Robert Earl, 3,678,343.
 Van Fossen, Marvin Dale; and Whitemyer, James Glenn, 3,662,110.
 Vazirani, Hargovind N., 3,632,389.

- Vazirani, Hargovind Nihchaldas, 3,676,223.
 Vehse, Robert Chase, 3,648,653.
 Vitalo, Alfred Emanuel, 3,668,317.
 Vlcek, David, 3,649,873.
 Waaben, Sigurd G., 3,701,907.
 Waaben, Sigurd Gunther, 3,636,555.
 Waaben, Sigurd Gunther, 3,651,468.
 Waaben, Sigurd Gunther; and Weiss, Walter Ira, 3,701,119.
 Waggner, Herbert A., 3,689,389.
 Walsh, Edward G., 3,704,045.
 Walsh, Edward George, 3,633,136.
 Warner, Arthur Woodward, Jr., 3,653,746.
 Wasserman, Norman, 3,632,941.
 Weiner, Daniel, 3,679,904.
 Weiner, Martin Eric, 3,647,389.
 Weinstein, Stephen Brant, 3,646,518.
 Weischedel, Herbert Rudolf; and Westerman, George Raymond, 3,665,291.
 Weischedel, Herbert Rudolf; and Westerman, George Raymond, 3,671,853.
 Weischedel, Herbert Rudolf; and Westerman, George Raymond, 3,676,800.
 Weller, David Reis, 3,675,135.
 Weller, David Reis, 3,703,678.
 Westerman, George Raymond, 3,704,430.
 White, Gerard, 3,701,033.
 Whitey, James Glenn, 3,676,604.
 Wickliff, Noble Ervin, 3,665,221.
 Wiese, Larry Lee, 3,662,300.
 Winters, Earl D., 3,669,852.
 Witmore, Ronald Kirk, 3,659,055.
 Wolfe, Raymond, 3,647,538.
 Wolff, Peter Adalbert, 3,639,774.
 Wolff, Peter Adalbert, 3,655,993.
 Wyndrum, Ralph William, Jr., 3,692,953.
 Yenisey, Osman Metin, 3,675,048.
 Zarouni, Alfred, 3,691,301.
 Zebe, Charles, 3,675,315.
 Zucker, Henry, 3,696,435.
 Bell, William A., Jr.; Johnson, Ray L., Jr.; and Veach, Allen M., to United States of America, Atomic Energy Commission. Helical three-stage isotope separation. 3,649,827, 3-14-72, Cl. 250-41.9.
 Bell, William A., Jr.; and Veach, Allen M., to United States of America, Atomic Energy Commission. Separation of mercury isotopes. 3,700,892, 10-24-72, Cl. 250-41.90s.
 Bell, William Roland. Method for extracting honey. 3,671,985, 6-27-72, Cl. 6-12.00a.
 Bell, William W. Holder apparatus for skis. 3,685,667, 8-22-72, Cl. 211-60.0sk.
 Bell, William W., Jr. Absorption refrigeration system. 3,689,202, 9-5-72, Cl. 417-353.000.
 Bella, David; and Kessler, Seymour, to Zenith Radio Corporation. Phonograph cartridge connector. 3,652,097, 3-28-72, Cl. 274-37.
 Bella, Davide Della: See—
 Teotino, Uberto; and Bella, Davide Della, 3,706,750.
 Bellamy, David, Jr.: See—
 Schlutz, Charles A.; and Bellamy, David, Jr., 3,672,564.
 Bellamy, David, Jr., to Baxter Laboratories, Inc. Indwelling catheter with breakaway needle and lanyard advancing means. 3,685,513, 8-22-72, Cl. 128-214.400.
 Bellan, Heinrich: See—
 Eggenmuller, Alfred; Scherer, Lorenz; Notter, Eugen; Bellan, Heinrich; and Wagler, Werner, 3,687,061.
 Scherer, Lorenz; Bellan, Heinrich; Wohlr, Rudolf; and Eggenmuller, Alfred, 3,638,406.
 Bellanca, Anthony J.: See—
 Grobbel, Sylvester J., 3,648,873.
 Bellanger, Maurice Georges; Daguet, Jacques Lucien; and Duong, Tuan Kiet, to S.A. Telecommunications Radioelectriques et Telephoniques T.R.T. Transmission device for the transmission of analog signals by means of pulse code modulation. 3,674,937, 7-4-72, I. 179-15.
 Bellardy, Roger: See—
 Zeter, Francois; Bellardy, Roger; Poulligny, Claude; and Walter, Marc, 3,702,529.
 Bellasalma, Gerald J., to Plastetics, Inc. Cantilever shelf assembly. 3,704,675, 12-5-72, Cl. 108-152.000.
 Bellasalma, Gerald J., to Plastetics, Inc. Method of forming a mold and casting shallow articles therein. 3,703,572, 11-21-72, Cl. 264-92.000.
 Bellasio, Elvio: See—
 Cavalleri, Bruno; Bellasio, Elvio; Testa, Emilio; and Maffii, Giulio, 3,699,151.
 Bellasio, Elvio; and Maffii, Giulio, to Lepetit S.p.A.-Gruppo per la Ricerca Scientifica e la Produzione Chimica Farmaceutica. Pyridazine derivatives. 3,642,792, 2-15-72, Cl. 260-247.5.
 Bellasio, Elvio; Testa, Emilio; and Maffii, Giulio, to Gruppo Lepetit S.p.A. Phthalazines. 3,644,361, 2-22-72, Cl. 260-250.
 Bellaton, Roland: See—
 Ride, Jean-Louis; and Bellaton, Roland, 3,675,870.
 Belle, Jack: See—
 Burke, Thomas J.; Belle, Jack; and Clayton, John C., 3,657,137.
 Belle, Pierre. Apparatus for and method of continuously measuring a temperature gradient in relation to altitude. 3,695,111, 10-3-72, Cl. 73-345.000.
 Belleau, Bernard R.; and Kavadias, Gerry, to Bristol-Myers Company. Process for the preparation of 1-indancarboxylic acids. 3,691,231, 9-12-72, Cl. 260-523.00r.
 Belleli, Rodolfo. Floating roof for liquid storage tanks, particularly for the storage of liquid petroleum products. 3,647,113, 3-7-72, Cl. 220-26.
 Bellem, Norman A.: See—
 Conway, Maurice A.; Perkins, Carl C., Jr.; and Bellem, Norman A., 3,669,051.
 Beller, Hans: See—
 Klein, Hans-Christof; Beller, Hans; and Schrader, Gert, 3,688,255.
 Beller, Hans Albert: See—
 Marschall, Helmut; Kammermayer, Wolfgang; Beller, Hans Albert; Hahn, Heinz; and Belart, Juan, 3,669,226.
 Beller, Hans Albert; and Burgdorf, Jochen, to ITT Industries, Inc. Spot-type disc brake. 3,658,160, 4-25-72, Cl. 188-73.4.
 Beller, Hans Albert; and Burgdorf, Jochen, to ITT Industries, Inc. Spot-type disc brake. 3,661,231, 5-9-72, Cl. 188-72.4.
 Beller, Hans Albert, to ITT Industries, Inc. Spot-type disc brake. 3,675,744, 7-11-72, Cl. 188-73.600.
 Beller, Wilbert E.; and Kahale, Abed G., to Controls Company of America. Magnetically latched switch and circuit therefor. 3,662,475, 5-16-72, Cl. 34-45.
 Beller, Zoltan: See—
 Domokos, Jozsef; Benedek, Gyorgy; Kiss, Bela; Winkler, Laszlo; and Beller, Zoltan, 3,676,316.
 Belleson, James Garman, to International Business Machines Corporation. Method and system for selective display of images from a video buffer. 3,697,678, 10-10-72, Cl. 178-6.6dd.
 Belletiere, Ronald: See—
 Thron, John E.; Woods, William E.; Belletiere, Ronald; and Stein, Howard, 3,648,252.
 Bellinder, Alex J., to Bal Graphics, Inc. Portable and collapsible display or exhibit. 3,684,103, 8-15-72, Cl. 211-177.000.
 Bellinger, Alvin R. Knock-out box for an electrical switch and receptacle. 3,633,782, 1-11-72, Cl. 220-3.5.
 Bellinger, Horst: See—
 Heins, Arnold; Eckert, Hans-Werner; and Bellinger, Horst, 3,644,204.
 Nosler, Heinz Gunter; Wessendorf, Richard; and Bellinger, Horst, 3,668,135.
 Wessendorf, Richard; Nosler, Heinz Gunter; and Bellinger, Horst, 3,639,444.
 Wessendorf, Richard; and Bellinger, Horst, 3,651,124.
 Bellinger, Kenneth P.; and Conoby, Joseph F., to Conversion Chemical Corporation. Composition for cleaning aluminum and method utilizing same. 3,647,698, 3-7-72, Cl. 252-79.4.
 Bellinger, Robert M.; and Cabbage, John T., to Phillips Petroleum Company. Biphenyl purification process by plural stage fractional distillation. 3,700,566, 10-24-72, Cl. 203-1.000.
 Bellinger, S. Lawrence, to Mowbot Inc. Self-propelled random motion lawnmower. 3,698,523, 10-17-72, Cl. 192-12.0ba.
 Bellini, Enzo. Divan-bed. 3,667,072, 6-6-72, Cl. 5-24.000.
 Bellis, Carlo, to Olivetti, Ing., C., & C., S.p.A. Mutual locking device for the keyboard of a calculating machine. 3,645,439, 2-29-72, Cl. 235-60.49.
 Bellis, Harold Edward, to Du Pont de Nemours, E. I., and Company. Low temperature melt chlorination process. 3,671,596, 6-20-72, Cl. 260-658.00r.
 Bellis, Harold Edward, to Du Pont de Nemours, E. I., and Company. Plating on aluminum, magnesium or zinc. 3,672,964, 6-27-72, Cl. 204-33.000.
 Bellis, Harold Edward, to Du Pont de Nemours, E. I., and Company. Nickel or cobalt wear-resistant compositions and coatings. 3,674,447, 7-4-72, Cl. 29-196.600.
 Bellis, Harold Edward, to Du Pont de Nemours, E. I., and Company. Electroless gold plating bath and process. 3,697,296, 10-10-72, Cl. 106-1.000.
 Bellis, Harold Edward, to Du Pont de Nemours, E. I., and Company. Dechlorination process. 3,697,608, 10-10-72, Cl. 260-653.500.
 Bellis, Robert E. Touch sensitive power control circuit. 3,666,988, 5-30-72, Cl. 315-208.
 Bellissent, Jean-Paul: See—
 Amiard, Yves; Bellissent, Jean-Paul; and Marie, Gilbert, 3,642,730.
 Amiard, Yves; and Bellissent, Jean-Paul, 3,655,796.
 Bellmann, Alfred, to International Standard Electric Corporation. Contact spring assembly for relays and similar switches. 3,671,701, 6-20-72, Cl. 200-166.00j.
 Bellmann, Eugen, G.m.b.H.: See—
 Kronsbein, Curt H., 3,653,562.
 Bellmann, Manfred, to Mannesmann Aktiengesellschaft. Feed mechanism for rolling mill of the pilger type. 3,662,585, 5-16-72, Cl. 72-445.
 Bello, Hobson J.: See—

- Bevis, Michael J.; Bello, Hobson J.; and Holtz, Carl F., 3,705,803.
 Bello, Hobson J.; and Holtz, Carl F., to Eastman Kodak Company. Film and process using bleach inhibitor for producing color film with silver sound record. 3,705,799, 12-12-72, Cl. 96-4.000.
 Bello, Phillip A.; and Salwen, Howard C., to Signatron, Inc. Communication system for eliminating time delay effects when used in a multipath transmission medium. 3,689,841, 9-5-72, Cl. 325-39.000.
 Bellon Plumbing Company, Incorporated: See—
 Montesdioca, Renaldo, 3,690,609.
 Bellos, Thomas J., to Petrolite Corporation. Method of protecting metal surfaces against abrasive wear in submersible pumps. 3,661,784, 5-9-72, Cl. 252-49.300.
 Bellows, Alfred H.: See—
 Land, Edwin H.; and Bellows, Alfred H., 3,683,770.
 Bellows, Alfred H., to Polaroid Corporation. Folding camera with developing means. 3,643,565, 2-22-72, Cl. 95-11.
 Bellows, Alfred H., to Polaroid Corporation. Compact rangefinding device. 3,680,946, 8-1-72, Cl. 350-10.000.
 Bellsmith, Travis L.; and Fields, Richard W., to Velsicol Chemical Corporation. Silvicidal composition and method. 3,671,215, 6-20-72, Cl. 71-97.000.
 Bellucci, Edward A.; and Winschel, Carl J., to American Sterilizer Company. Surgical table and control. 3,635,461, 1-18-72, Cl. 269-325.
 Belluche, Robert A., to Sanders Associates, Inc. Wired or circuit. 3,694,665, 9-26-72, Cl. 307-208.000.
 Belluscio, Anthony W. Apparatus for the construction of concrete structures. 3,676,975, 7-18-72, Cl. 52-743.000.
 Bellware, James D., to General Motors Corporation. Mechanism for opening and closing a cover for a concealed windshield wiper system. 3,688,332, 9-5-72, Cl. 15-250.016.
 Bellware, James D., to General Motors Corporation. Depressed park windshield wiper. 3,699,605, 10-24-72, Cl. 15-250.170.
 Belmares-Sarabia, Hector: See—
 Niederhauser, Warren Dexter; Belmares-Sarabia, Hector; and Bauer, William, Jr., 3,641,199.
 Belmas, Jean: See—
 Pestie, Jean-Pierre; and Belmas, Jean, 3,635,772.
 Belmonte, James A.; and Williams, Thomas, to Corning Glass Works. Method of making electrical heating units. 3,680,207, 8-1-72, Cl. 29-611.000.
 Belmuth, Harold: See—
 Becker, Marvin; and Belmuth, Harold, 3,638,658.
 Belogolovin, Nikolai Stefanovich: See—
 Scherban, Alexandr Nazarevich; Furman, Neonil Izrailevich; Sotnichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Jury Ivanovich; Sutormin, Jury Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chaschinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna, 3,678,489.
 Belohlav, Leo R.: See—
 Stuetz, Dagobert E.; Belohlav, Leo R.; and Reader, Arthur M., 3,634,035.
 Belohoubek, Erwin F., to United States of America, Navy, mesne. Microwave signal delay apparatus. 3,639,802, 2-1-72, Cl. 315-3.5.
 Belohoubek, Erwin F., to United States of America, Navy, mesne. Microwave delay apparatus. 3,641,388, 2-8-72, Cl. 315-3.5.
 Beloit College: See—
 Hinckley, John N., 3,660,978.
 Hinckley, John N., 3,684,413.
 Beloit Corporation: See—
 Arav, Ronnie A.; and Trentini, Gianpietro, 3,686,386.
 Brenner, Lawrence A., 3,688,735.
 Bump, Philip G., 3,707,267.
 Busker, Leroy H.; and Mosher, Robert J., 3,681,684.
 Busker, Leroy H.; and Mosher, Robert J., 3,694,737.
 Busker, Leroy H.; and Mosher, Robert J., 3,696,292.
 Daane, Robert A., 3,675,337.
 Frye, Kenneth G.; Lucas, Robert G.; and Rohosy, Soma M., 3,685,379.
 Jones, James F.; and Lundberg, John P., 3,631,995.
 Justus, Edgar J., 3,639,956.
 Keyes, Marion A., IV; and Gudaz, John A., 3,654,075.
 Keyes, Marion A., IV; and Gudaz, John A., 3,658,642.
 Keyes, Marion A., IV, 3,662,170.
 Lucas, Robert G.; and Frye, Kenneth G., 3,645,433.
 Mahoney, Ralph P., 3,650,242.
 Melead, James J., 3,692,251.
 Moore, Lawrence A., 3,661,489.
 Pfeiffer, John D., 3,682,032.
 Pfeiffer, John D., 3,687,388.
 Pfeiffer, John David, 3,650,491.
 Prew, Stanley R.; and Clark, Llewelyn E., 3,687,360.
 Schmaeng, John F., 3,645,843.
 Voll, Gordon R., 3,633,662.
 Belokin, Paul, Jr. Pill dispenser with top rotatable relative to base. 3,638,830, 2-1-72, Cl. 221-246.
 Belorgey, Roger, to Schlumberger Technology Corporation. Well tool anchoring system. 3,661,205, 5-9-72, Cl. 166-65.
 Belorussky Institut Perelivania Krovi: See—
 Dovgalev, Stepan Ilich; Ermolenko, Igor Nikolaevich; Buglov, Evgeny Danilovich; Danilov, Ivan Petrovich; and Longin, Mikail Lvovich, 3,703,438.
 Belotserkovsky, Grigory Markovich: See—
 Plachenov, Tikhon Grigorievich; Belotserkovsky, Grigory Markovich; Dolgova, Ekaterina Nikolaevna; Ezhov, Jury Valentinovich; Fogel, Vladimir Alexandrovich; Benediktov, Andrei Pavlovich; and Avilov, Iliya Yakovlevich, 3,704,806.
 Belotti, Luigi: See—
 Perugini, Giancarlo; Mercato, Giorgio; Belotti, Luigi; and Caccamo, Carmelo, 3,684,911.
 Belova, Alla Borisovna: See—
 Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Idelevich; Zhabin, Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhikhin, Vladimir Petrovich; Rubnikovich, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Ussyaslav Iosifovich; Sharipova, Ravia Davlyatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorievich, 3,654,325.
 Belova, Larisa Alexandrovna: See—
 Chepigo, Sergei Vladimirovich; Belenky, Solomon Iosifovich; Somov, Vsevolod Sergeevich; Voronkov, Vasily Gerasimovich; Belavsky, Mikhail Alexandrovich; Korotaev, Oleg Georgievich; Rodionova, Galina Sergeevna; Maximenko, Nikolai Spiridonovich; Glazman, Bori Aronovich; Belova, Larisa Alexandrovna; and Vorobiova, Galina Ivanovna, 3,654,084.
 Below, John F., to Stauffer Chemical Company. Stabilized mixture employing N-(beta-O,O-dialkylthiophosphoryl) aryl sulfonamides and a Lewis base. 3,668,282, 6-6-72, Cl. 260-944.
 Belser, John W., to Standard Products Company, The. Hinge and weatherseal structure for a glass panel. 3,633,316, 1-11-72, Cl. 49-384.
 Belskaya, Rogneda Ivanovna: See—
 Emelyanov, Nester Petrovich; Belskaya, Rogneda Ivanovna; and Semyachko, Rostislav Yakovlevich, 3,652,460.
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 Beltek Kabushiki Kaisha: See—
 Oteki, Yuzo, 3,669,456.
 Belter, John W.; Dockter, Leroy; and Ellman, Robert C., to United States of America, Interior. Production activated carbon in dual pulse jet engine system. 3,668,145, 6-6-72, Cl. 252-421.000.
 Belton, John Price, Jr., to Bunker-Ramo Corporation, The. Digital frequency synthesizer. 3,701,027, 10-24-72, Cl. 328-17.000.
 Beltone Electronics Corporation: See—
 Brander, Richard, 3,651,428.
 Brander, Richard, 3,657,567.
 Steigerwald, Carl J., 3,633,792.
 Weiss, Erwin M., 3,665,121.
 Weiss, Erwin M., 3,665,122.
 Beltrami, Joseph P., to Itad Alarm Systems, Inc. Anti-hijacking vehicular alarm system. 3,656,100, 4-11-72, Cl. 340-63.
 Beltrami, Henry P.; and Dale, James W., to Monsanto Research Corporation. Gelled liquid propellant oxidizers of interhalogen compounds. 3,702,793, 11-14-72, Cl. 149-100.000.
 Beltramo, Renaldo M.: See—
 Davidson, George L.; and Beltramo, Renaldo M., 3,662,175.
 Beltran, Delfin J. Medical breathing measuring system. 3,643,652, 2-22-72, Cl. 128-2.08.
 Beltran, Humberto Flores, to Searle, G. D., & Co. Process for extraction of solanum alkaloids. 3,682,883, 8-8-72, Cl. 260-210.00r.
 Beltron, Inc.: See—
 Badewitz, Albert R., 3,641,391.
 Beltz, Harold E.; and Palmer, John G., to Zinsco Electrical Products. Circuit breaker. 3,671,908, 6-20-72, Cl. 337-54.000.
 Beltz Corporation: See—
 De Woskin, Irvin S.; and Jenkins, Murgatroyd H., 3,657,857.
 Beltz, John Prickett, to RCA Corporation. Variable length coding method and apparatus. 3,643,019, 2-15-72, Cl. 178-6.8.
 Beltzer, Morton, to Esso Research and Engineering Company. Aluminum-halogen secondary battery method with molten electrolyte. 3,632,448, 1-4-72, Cl. 136-86.
 Belu, Aretia: See—

- Grigorovici, Radu G.; Devenyi, Andrei Gavrilă; Florea, Valer; Korony, Gheorghe; Belu, Aretia; and Costachescu, Carol, 3,705,993.
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- Belyaeva, Ljudmila Pavlovna: See—
Ezhov, Leonid Antipovich; Kudevitsky, Yankel Veniaminovich; and Belyaeva, Ljudmila Pavlovna, 3,678,554.
- Belz, Edgar: See—
Amelung, Ernst; Belz, Edgar; and Evertz, Egon, 3,681,811.
- Belzak Corporation: See—
Zak, Henry C., 3,679,659.
- Belzberg, Samuel I., to Unican Security Systems, Ltd. Self-holding tube end closures. 3,701,450, 10-31-72, Cl. 220-24,000.
- Belzer, Folkert O.; and Truman, Chester W., to University of California, The Regents of the. Method and apparatus for preserving human organs extracorporeally. 3,632,473, 1-4-72, Cl. 195-1.7.
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Lapointe, Yves Anselme; Simard, Guy; Emond, Henri; and Delisle, Pierre A., 3,637,254.
- Bemben, Franklin Theodore. Drum. 3,685,389, 8-22-72, Cl. 84-411,000.
- Bembenek, Edward, to Standard Electric Time Corporation. Automatic battery charging regulator for emergency lighting and power systems. 3,659,181, 4-25-72, Cl. 320-22,000.
- Bemberg, J. P., Aktiengesellschaft: See—
Bandel, Werner; and Pirot, Ernst, 3,687,426.
- Ebert, Alfred; Pirot, Ernst; Holler, Fritz; and Steinhilber, Georg, 3,650,644.
- Bemberg, Paul. Sauna cabin. 3,685,060, 8-22-72, Cl. 4-160,000.
- Bemberg S.p.A.: See—
Callieri, Michele; Faraci, Giorgio; and Paracchini, Mario, 3,672,147.
- Cerutti, Giacomo, 3,673,650.
- Bement, Laurence J., to National Aeronautics and Space Administration. Linear explosive comparison. 3,670,559, 6-20-72, Cl. 73-35,000.
- Bemis Company, Inc.: See—
Ayres, Richard H.; and Lieder, Gaylerd M., 3,673,759.
- Conner, Joseph R.; Shovlin, Thomas F.; and Helm, Jack D., 3,680,421.
- Bemmels, Cyrus W.; and Doehner, Donald F., to Johnson & Johnson. Acrylate adhesive tape and composition. 3,707,518, 12-26-72, Cl. 260-29,600.
- Bemrose, Colin R., to Associated Engineering Limited. Heat exchangers. 3,670,812, 6-20-72, Cl. 165-175.
- Ben Daniel, David J.; Morgan, John R.; and Fielding, John O., to General Electric Company. Selective audio playback apparatus. 3,647,223, 3-7-72, Cl. 274-9.
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- Ben Moura, Pierre. Instrument for the parenteral penetration of a needle. 3,656,472, 4-18-72, Cl. 128-2.
- Ben, Victor Ralph; and Kay, Peter Steven, to Du Pont de Nemours, E. I., and Company. Crimpable composite polyamide yarn. 3,667,207, 6-6-72, Cl. 57-140,00y.
- Ben-Yaakov, Shmuel; and Kaplan, Isaac R., to University of California, The Regents of the. Apparatus for measuring pH in high-pressure environments. 3,652,439, 3-28-72, Cl. 204-195.
- Ben-Zeev, Dan: See—
Suhami, Albert; Sabbah, Benjamin; Inbar, Dan; Yarom, Artzi; and Ben-Zeev, Dan, 3,701,901.
- Benac, Rene: See—
Fontan, Andre; and Benac, Rene, 3,636,688.
- Fontan, Andre; and Benac, Rene, 3,677,572.
- Benak, James L., to Standard Oil Company, The (Ohio). Process for demineralization of water. 3,658,674, 4-25-72, Cl. 204-180.
- Benard, Christian Louis Georges, to Societe Parisienne des Anciens Etablissements Barbier, Benard & Turenne. Photo-electric positioning device. 3,675,024, 7-4-72, Cl. 250-208,000.
- Benard, Claude E., to Compagnie de Saint-Gobain-Pont-A-Mousson. Furnace for glass processes. 3,637,912, 1-25-72, Cl. 13-6.
- Benaroya, Gerard: See—
Michel, Max; Benaroya, Gerard; and Jacques, Roland, 3,634,330.
- Benaroya, Henry. Tandem free-piston machines. 3,661,476, 5-9-72, Cl. 417-341.
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- Benasutti, Louis D.: See—
Saunders, Orson V.; and Benasutti, Louis D., 3,648,411.
- Benatar, Victor; and Johnson, Roy A., to Mead Corporation, The. Divider-rotator mechanism. 3,677,389, 7-18-72, Cl. 198-31,00a.
- Benavides, Augusto E.: See—
Delmonte, John; Meadows, Paul L.; and Benavides, Augusto E., 3,703,425.
- Benbrook, Charles H.: See—
Leclair, Albert W.; and Benbrook, Charles H., 3,685,996.
- Benbrook, Charles H.; and Leclair, Albert W., to Nashua Corporation. Thermographic copy sheet containing 2,6-dicyclohexyl. 3,653,907, 4-4-72, Cl. 96-114,1.
- Bence, Patrick J. All-rapeseed oil shortenings. 3,706,578, 12-19-72, Cl. 99-118,000.
- Bench, Stephen M., to Motorola, Inc. Binary to pulse waveform converter. 3,632,876, 1-4-72, Cl. 178-68.
- Benchley, Robert, Jr. Navigational aid comprising two mirrors for reverse direction observation. 3,684,380, 8-15-72, Cl. 356-138,000.
- Benchoff, James Martin: See—
Destefan, John F.; Ezolt, James J.; and Benchoff, James Martin, 3,641,764.
- Benckiser, Joh A., G.m.b.H.: See—
Zeiss, Otto, 3,670,000.
- Benckiser, Joh A., GmbH Chemische Fabrik: See—
Krueger, Friedrich; and Bauer, Lieselotte, 3,699,048.
- Benckiser-Knapsack G.m.b.H.: See—
Gehrig, Oskar; and Harnisch, Heinz, 3,656,896.
- Glandorf, Kaete; and Scheurer, Guenter, 3,694,219.
- Heymer, Gero; Gerhardt, Wilfried; and Harnisch, Heinz, 3,653,821.
- Riehm, Theodor; and Gehrig, Oskar, 3,647,369.
- Benecisutto, Michael. Pivotable tree stand. 3,648,957, 3-14-72, Cl. 248-45.
- Benesics, Odon Steven; and Von Beckmann, Helmut Rolf Erich. Light reference system for railroad track surveying. 3,675,233, 7-4-72, Cl. 340-258,00b.
- Benze, William Laszlo, to Ciba Corporation. Phenoxy-aliphatic acids. 3,641,110, 2-8-72, Cl. 260-473.
- Benze, William Laszlo, to Ciba Corporation. Decahydronaphthyl substituted phenoxyaliphatic acids. 3,646,122, 2-29-72, Cl. 260-520.
- Benze, William Laszlo, to Ciba Corporation. Bicycloalkyl phenoxy-aliphatic acid-compositions. 3,679,800, 7-25-72, Cl. 424-267,000.
- Benda, Alexander Z.: See—
Woessner, Richard; and Benda, Alexander Z., 3,646,886.
- Benda, Ekkehardt: See—
Plasser, Franz; and Benda, Ekkehardt, 3,682,101.
- Bender, Alfred: See—
Ostwald, Fritz; Bender, Alfred; and Nonn, Gerhard, 3,678,954.
- Bender, Charles E.: See—
Scharf, Harold; Bender, Charles E.; and Fraser, Douglas S., 3,649,465.
- Bender, David L.; and Lane, Richard L., to Kayex Corporation. Device for tensioning an annular sawblade. 3,678,917, 7-25-72, Cl. 125-12,000.
- Bender, David L., to Hamco Machines & Electronics Corp. Pressure control for lapping device. 3,691,697, 9-19-72, Cl. 51-134,000.
- Bender, F., Limited: See—
Whatmore, Robert, 3,706,997.
- Bender, Lloyd F. Fluid line releaser and washer. 3,658,441, 4-25-72, Cl. 417-121,000.
- Bender, Lloyd F. Solenoid operated, two way diverter valve for fluid line washing apparatus. 3,670,744, 6-20-72, Cl. 134-57,000.
- Bender, Norman A.: See—
Herdrich, William M.; and Bender, Norman A., 3,678,436.
- Bender, Stanley O.; and Di Girolama, Joseph, to CTS Corporation. Resistors and stacked plurality thereof. 3,691,506, 9-12-72, Cl. 338-317,000.
- Bender, Warren G.: See—
Foulkes, John D.; and Bender, Warren G., 3,647,993.
- Bender, Werner K.: See—
Oxberry, John W.; Bender, Werner K.; and Policht, Stanislaw A., 3,682,540.
- Bendix Corporation, The: See—
Zipin, Richard B.; and Zalusky, James T., 3,647,302.
- Bendix Corporation: See—
Ewald, Jerome T.; Bach, Lloyd G.; and Lewis, Richard L., 3,692,039.
- Green, Norman; Greenhouse, Harold M.; Vergara, William C.; and McGill, Robert L., Jr., 3,641,372.
- Somer, Toivo A., 3,676,676.
- Stauffer, Reuben Laverne, 3,641,423.
- Bendix Corporation, The: See—
Abbott, Malcolm K.; and Dowdy, David A., 3,677,118.
- Augustine, Carl F., 3,693,084.
- Bach, Lloyd G.; Ewald, Jerome T.; and Fulmer, Keith H., 3,688,498.
- Bailey, Knight V., 3,647,963.
- Bak, Aloysius; and Resh, Roy E., 3,688,188.
- Baldwin, Walton B.; and Burger, Donald A., 3,675,906.
- Bancroft, George H., 3,687,634.
- Bancroft, George H., 3,695,050.
- Barnes, Charles M.; and Schlender, Blair H., 3,662,370.

- Bata, George Thomas; Carruth, Winford Boyd; and Gosnell, Thomas Francis, 3,666,903.
- Blatter, Albert, 3,678,733.
- Bode, James Daniel, 3,700,111.
- Bosworth, Robert H.; and Roney, Burton W., 3,645,001.
- Boyer, Peter W., 3,646,850.
- Brandt, David S., 3,663,926.
- Branson, Orland D., 3,702,714.
- Brown, Arthur K., Jr., 3,677,140.
- Bulloch, James E., 3,636,411.
- Burnett, Richard T., 3,633,715.
- Burnett, Richard T., 3,647,030.
- Burnett, Richard T., 3,647,031.
- Burnett, Richard T., 3,661,230.
- Burnett, Richard T., 3,677,372.
- Burnett, Richard T.; and Colpaert, James J., 3,701,400.
- Butler, Hymie, 3,665,499.
- Carp, Ralph W.; and Miesterfeld, Frederick O., 3,640,588.
- Carp, Ralph W.; and Miesterfeld, Frederick O., 3,667,812.
- Chambers, Harold L.; Marom, Emanuel; and Mueller, Rolf K., 3,666,884.
- Chilton, Charles B., 3,675,126.
- Clasby, David N.; and Hall, Roger D., 3,686,674.
- Cohen, Richard; Moreines, Harold; and Parfomak, Walter, 3,662,246.
- Cohen, Richard L., 3,696,390.
- Colson, William B.; Niedermiller, Herbert C.; and Deradoorian, Bagdasar, 3,679,384.
- Coman, William E., 3,641,392.
- Courtois, Donald A., 3,643,094.
- Cripe, Maxwell L., 3,633,366.
- Cripe, Maxwell L., 3,646,758.
- Cripe, Maxwell L., 3,661,174.
- Cripe, Maxwell L., 3,703,077.
- Cripe, Maxwell L., 3,707,075.
- Criswell, Daryl L.; and Sebold, Clarence V., 3,681,604.
- Cross, Fred H.; and Deradoorian, Bagdasar, 3,678,328.
- Csapos, James, 3,668,623.
- Cutler, Hymie, 3,698,268.
- Damoth, Donald C.; and Shriner, William H., 3,644,775.
- Damoth, Donald C.; and Shriner, William H., 3,660,654.
- Davis, Dennis J.; Sudnick, Dennis J.; Juhasz, John E.; and Kurichh, Sham, 3,677,609.
- Deradoorian, Bagdasar; Goodrich, George W.; and Theodorou, Dimitri G., 3,677,730.
- Deradoorian, Bagdasar; Svenson, James; and Nalepka, Raymond, 3,665,497.
- Dombeck, Edward K., 3,647,032.
- Dombeck, Edward K., 3,662,863.
- Eastman, James M., 3,707,159.
- Egerton, McKenny W., Jr., 3,696,407.
- Eklof, Anders A., 3,658,060.
- Elliott, Delbert R.; and Lewis, William T., 3,697,139.
- Ellis, John H., 3,665,368.
- Ellison, Victor D.; and Remus, Casimer F., 3,633,200.
- Ensslin, Frieder H., 3,669,812.
- Ensslin, Frieder H., 3,679,571.
- Esch, Robert E., 3,636,814.
- Everett, Samuel R.; Shear, Wayne G.; and Ardila, Jorge E., 3,636,336.
- Eward, Jerome T., 3,707,112.
- Eyler, Francis R., 3,700,920.
- Faris, William R.; and Harokopus, William P., 3,697,985.
- Fickenscher, William E., 3,679,874.
- Foot, Theodore, 3,634,713.
- Freedman, Morris D., 3,676,687.
- Freedman, Morris D., 3,676,866.
- Freedman, Morris D., 3,694,806.
- Freedman, Morris David, 3,699,253.
- Frei, Karl; and Hood, Edwin Elliott, 3,675,740.
- Frei, Karl; and Hood, Edwin Elliott, 3,675,741.
- Fulmer, Keith H.; and Jenney, Deane K., 3,665,957.
- Fulmer, Keith H., 3,677,002.
- Gaiser, Robert F., 3,701,257.
- Giardini, Dante S.; Preston, George A.; and Roney, Richard N., 3,640,163.
- Giardini, Dante S., 3,673,739.
- Giardini, Dante S.; and Szempruch, Robert S., 3,673,740.
- Giardini, Dante S.; and Wieg, Heinrich J., 3,673,743.
- Giardini, Dante S.; and Chhabra, Indarmohan S., 3,699,728.
- Glowzewski, Thomas L.; and Cutler, Hymie, 3,665,493.
- Goodrich, George W.; Colson, William B.; and Matle, Calvin C., 3,700,947.
- Goscenski, Edward J., 3,633,462.
- Goscenski, Edward J., 3,677,007.
- Goscenski, Edward J., 3,677,138.
- Goscenski, Edward J., Jr., 3,707,111.
- Graham, James T.; and Hackstock, Fred W., 3,648,346.
- Greene, William H., 3,699,915.
- Gripe, Maxwell L., 3,686,861.
- Gupta, Radha Raman, 3,659,293.
- Haase, Wallace H.; Lyman, Albie Alton, Jr.; and Painter, Daniel W., II, 3,638,174.
- Hajzak, Dennis G., 3,654,123.
- Hall, Roger D.; and Clasby, David N., 3,680,131.
- Hazen, Edward J., 3,645,137.
- Helava, Uuno V.; and Forrest, Robert B., 3,678,582.
- Henegar, Hubert B., 3,676,650.
- Hickner, George B.; Howard, Donald W.; and Suttle, Ward C., 3,674,318.
- Hickner, George B.; Howard, Donald W.; Houseman, Paul S.; and Carp, Ralph W., 3,704,043.
- Hofmeister, Laurence C., 3,666,213.
- Horn, John W.; and Rachel, Todd L., 3,705,571.
- Houston, George Porter, Jr., 3,636,365.
- Howard, Donald W.; and Eppley, Dewey W., 3,662,333.
- Howard, Donald W., 3,674,114.
- Howard, Donald W.; and Hickner, George B., 3,674,320.
- Hughes, Harold W.; and Shutt, Paul B., 3,646,759.
- Hurlburt, Charles E., 3,657,918.
- Hurlburt, Charles E.; Lanni, Michael J.; and Fraenkel, Alphons, 3,662,595.
- Jackson, Clive G. B., 3,658,440.
- Jacobson, Oscar D., 3,643,516.
- Jacobson, Oscar D., 3,653,267.
- Jacobson, Oscar D., 3,657,930.
- Jacobson, Oscar D., 3,657,931.
- Jacobson, Oscar D., 3,662,609.
- James, Robert L.; and Tawfik, David A., 3,633,004.
- Jilbert, Howard R., 3,634,639.
- Julow, Thomas M., 3,633,613.
- Kadron, Stanley F.; Eisenhauer, Gary L.; Pryor, David J.; and Chacon, Raul J., 3,704,423.
- Kaiser, Frederick A., 3,704,720.
- Kammermeyer, Karl; and Sollami, Blase J., 3,665,678.
- Kasselmann, John T., 3,640,184.
- Kasselmann, John T., 3,673,875.
- Kasten, Walter, 3,680,659.
- Kinney, John F., 3,688,881.
- Kiwak, Robert S., 3,680,576.
- Klein, Bruce W., 3,647,033.
- Knopf, George S., 3,641,535.
- Kosakowski, Henry R., 3,685,043.
- Kowalski, Daniel C., 3,648,039.
- Kramer, Charles J., Jr., 3,647,303.
- Kytta, Oswald O., 3,688,647.
- La Falce, Robert A.; and Spencer, William M., 3,689,887.
- Larsen, Lester J., 3,633,363.
- Larson, Ralph H., 3,631,879.
- Lewis, Richard J., 3,635,022.
- Lewis, Richard L., 3,638,528.
- Lewis, Richard L., 3,677,608.
- Lewis, Richard L.; and Goscenski, Edward J., Jr., 3,701,305.
- Lewis, Richard L.; Hickner, George B.; and Harokopus, William P., 3,701,568.
- Mac Duff, Stanley I., 3,653,209.
- MacDuff, Stanley I., 3,639,008.
- Marom, Emanuel; and Mueller, Rolf K., 3,631,713.
- Mayer, Endre A., 3,665,947.
- Mayer, Endre A.; and Teitelbaum, Bernard R., 3,672,474.
- Mayer, Endre A., 3,674,044.
- McDaniel, George H., 3,666,930.
- McDaniel, George H., 3,676,651.
- McDaniel, George H., 3,676,760.
- McDaniel, George H., 3,701,888.
- McGinnis, Patrick F., 3,699,330.
- McKeown, James E., 3,671,842.
- Mersten, Gerald S., 3,649,822.
- Meunier, Joseph R. J.; and Wieg, Heinrich J., 3,699,560.
- Meyers, Robert E., 3,638,427.
- Meyers, Robert E., 3,664,130.
- Michaud, Jimmie A., 3,691,353.
- Miller, Donald L., 3,677,377.
- Miller, Donald L., 3,679,034.
- Millman, William V.; and Mayer, Endre A., 3,674,045.
- Millman, William V., 3,690,317.
- Moorman, Charles J.; and Lehman, Richard H., 3,668,384.
- Moorman, Charles J.; and Reuter, Fred A., 3,673,405.
- Morrey, Walter T., 3,676,768.
- Morton, Henry C., 3,634,307.
- Morton, Henry Clifford; and Rasmussen, Thomas J., 3,655,603.
- Mueller, Rolf K.; and Emanuel, Marom, 3,698,787.
- Mueller, Rolf K., 3,704,931.
- Nagy, John R., 3,646,917.
- Nagy, John R.; and Rachel, Todd L., 3,646,918.
- Nagy, John R., 3,665,899.
- Nelson, Thomas A., 3,665,950.
- Newman, Anthony J., 3,649,755.
- Olmstead, Merlin E., 3,681,708.
- Owens, Abner, Jr.; and Yurasek, John F., 3,648,231.
- Palfreyman, Raymond D., 3,653,612.
- Palmer, Roy M.; and Schoenhals, Robert J., 3,653,613.

- Palmer, Roy M.; and Kobayashi, Francis M., 3,653,682.
 Parfomak, Walter; and Antipas, George, 3,659,215.
 Pekau, Dietlind, 3,643,017.
 Perry, Adolphus R., 3,648,228.
 Pfersch, George H., 3,657,660.
 Pfersch, George H., 3,659,173.
 Pfersch, George H., Jr.; and Doniger, Jerry, 3,667,057.
 Philippe, Nicodeme, 3,699,513.
 Pincus, Ralph M., 3,685,048.
 Platt, Walter A., 3,659,213.
 Polye, William Ronald R., 3,634,727.
 Pouwels, Edward M.; and Roberts, James K., 3,677,610.
 Prunk, Emil R.; and Staluppi, Joseph P., 3,634,848.
 Putt, James Basil, 3,678,490.
 Putt, James Basil, 3,699,561.
 Quatrano, John, 3,695,592.
 Rachel, Todd L., 3,646,915.
 Ramsey, Raymond J., 3,707,041.
 Ratcliff, Henry K., 3,648,188.
 Ratcliff, Henry Kevin, 3,638,087.
 Ritsema, Irving R., 3,653,630.
 Rivard, Jerome G., 3,665,949.
 Runkle, Dean E., 3,693,654.
 Ruppe, Joseph P., Jr., 3,692,150.
 Sanders, Bobby J., 3,671,868.
 Sanford, Norman R., 3,665,506.
 Schauffler, David J., 3,703,831.
 Seppey, Robert E., 3,690,157.
 Shapiro, William A.; and Kemmerer, Robert P., Jr., 3,657,733.
 Shields, Martin A., 3,646,852.
 Shutt, Paul B., 3,677,606.
 Shutt, Paul B., 3,686,864.
 Shutt, Paul B.; and Barnes, Charles M., 3,701,567.
 Slavin, Michael; and Carp, Ralph W., 3,669,403.
 Somer, Toivo A., 3,691,382.
 Spencer, Glenn S., 3,704,769.
 Spencer, Glenn S., 3,704,770.
 Steinhauer, Hayes B., 3,653,048.
 Stevens, William P.; Hubbard, George M.; and Wagner, William D., 3,634,815.
 Stevens, William P.; Hubbard, George M.; and Wagner, William D., 3,639,890.
 Stevens, William P.; Hubbard, George M.; and Wagner, William D., 3,678,444.
 Sulich, Janusz S., 3,698,413.
 Sullivan, Wayne A.; and Scolaro, Donald A., 3,648,067.
 Sussman, Arthur, 3,666,353.
 Sussman, Arthur; and Nitzberg, Jack, 3,680,948.
 Sylvander, Frederick B., 3,641,533.
 Sylvander, Frederick B.; Cohen, Richard L.; and Putzer, Murray, 3,649,818.
 Tam, George M., 3,661,426.
 Taplin, Lael B., 3,677,095.
 Tawfik, David A.; Talish, Roger J.; and Yurasek, John F., 3,650,628.
 Teitelbaum, Bernard R., 3,673,857.
 Teitelbaum, Bernard R., 3,701,334.
 Tewksbury, John M.; Jackson, Harold W.; and Powell, Thomas H., Jr., 3,660,781.
 Thomas, Neal C.; and Dippold, Walter J., 3,662,207.
 Thomas, Neal C., 3,700,097.
 Tinney, Joseph, 3,681,606.
 Tirabassi, Benjamin John, 3,674,251.
 Troeger, Henry, 3,677,378.
 Valek, Robert J., 3,634,664.
 Van Ausdal, Robert K.; and Cooper, Donald R., 3,707,090.
 Van Dusen, David G.; Lindahn, Robert F.; and O'Connor, James J., 3,634,009.
 Vasek, Anthony G., 3,698,248.
 Verge, Kenneth W.; Kachman, Robert D.; and Read, Ronald G., 3,700,362.
 Vold, Gunnar Johan, 3,662,608.
 Walker, John H., 3,665,753.
 Wiegner, George F., 3,647,034.
 Witzke, Frederick W., 3,648,377.
 Wolber, William G., 3,698,789.
 Wyess, William R., 3,666,957.
 Yates, Lester R.; Dorsey, Charles M., Jr.; Howell, John B.; Conklin, Winfred S.; Sawicki, Joseph J.; Shepherd, Reeves T.; and Soares, Silvio, 3,641,434.
 Yurasek, John F.; and Owens, Abner, Jr., 3,643,213.
 Zipin, Richard B., 3,658,429.
 Bendix Corporation, The, mesne: See—
 Keefer, Richard D.; and Wyman, John S., Jr., 3,654,801.
 Robrecht, Charles J.; and Wyman, John S., Jr., 3,693,410.
 Bendix Corporation, The: See—
 Cramer, Robert L., 3,707,078.
 Bendix-Westinghouse Automotive Air Brake Company: See—
 Deem, Brian C.; and Herold, Guenther K., 3,645,585.
 Valentine, Harry M., 3,664,632.
 Bendixen, Knud Erik, to Aktieselskabet Burmeister & Wain's Maskin- OG Skibsyggeri. Fuel burner unit for mounting in a common air box. 3,672,812, 6-27-72, Cl. 431-89.000.
 Bendler, Hellmut: See—
 Gawlick, Heinz; and Bendler, Hellmut, 3,641,938.
 Gawlick, Heinz; Bendler, Hellmut; and Hubsch, Gunther, 3,657,499.
 Gawlick, Heinz; Bendler, Hellmut; and Hubsch, Gunter, 3,657,500.
 Gawlick, Heinz; and Bendler, Hellmut, 3,675,533.
 Gawlick, Heinz; Bendler, Hellmut; and Hubsch, Gunter, 3,703,121.
 Benecke, Gunther: See—
 Traub, Karl; and Benecke, Gunther, 3,654,488.
 Benedek, Gyorgy: See—
 Domokos, Jozsef; Benedek, Gyorgy; Kiss, Bela; Winkler, Laszlo; and Beller, Zoltan, 3,676,316.
 Benedetti, Franco: See—
 Pijn, Cornelis; and Benedetti, Franco, 3,673,453.
 Benedetti Michalagelli, Glauco: See—
 Berne, Adriano; Cesarotti, Mario; and Benedetti Michalagelli, Glauco, 3,668,537.
 Benedict, Elmer M. Alarm circuit. 3,678,511, 7-18-72, Cl. 340-420.000.
 Benedict, Frank A. Rope traverse device. 3,661,113, 5-9-72, Cl. 114-206.
 Benedict, Frank R., to Trane Company, The, mesne. Cam feeder and pie. 3,661,007, 5-9-72, Cl. 72-421.
 Benedict, Neil W., Jr., to Ajax Tool Works, Inc. Lead sleeve cutting tool. 3,673,686, 7-4-72, Cl. 30-168.000.
 Benedict, Ralph H.: See—
 Barocca, Aldo J.; and Benedict, Ralph H., 3,678,856.
 Benedikt, Kurt: See—
 Schafer, Johannes; Berg, Gerhard; and Benedikt, Kurt, 3,704,286.
 Benediktov, Andrei Pavlovich: See—
 Plachenov, Tikhon Grigorievich; Belotserkovsky, Grigory Markovich; Dolgova, Ekaterina Nikolaevna; Ezhov, Jury Valentinovich; Fogel, Vladimir Alexandrovich; Benediktov, Andrei Pavlovich; and Avilov, Iliya Yakovlevich, 3,704,806.
 Beneditti, Lena: See—
 Freimuth, John S.; and Beneditti, Nello L., 3,640,454.
 Beneditti, Nello L.: See—
 Freimuth, John S.; and Beneditti, Nello L., 3,640,454.
 Benefiel, James William; and Opioari, Anthony William, to Celanese Coatings Company. Article having a multi-layer coating and process for producing same. 3,639,147, 2-1-72, Cl. 117-73.
 Beneke, Jene Arnold, to Verson Manufacturing Company. Plural speed transmission system. 3,686,967, 8-29-72, Cl. 74-388.00r.
 Beneking, Heinz, to Licentia Patent-Verwaltungs-G.m.b.H. Semiconductor device. 3,659,156, 4-25-72, Cl. 317-234.
 Beneking, Heinz, to Licentia Patent-Verwaltungs-G.m.b.H. Blocking field effect transistor. 3,659,161, 4-25-72, Cl. 317-235.
 Beneking, Heinz, to Licentia Patent-Verwaltungs-G.m.b.H. Field effect transistor. 3,693,055, 9-19-72, Cl. 317-235.000.
 Benenati, Salvatore: See—
 Kanbar, Maurice S.; and Benenati, Salvatore, 3,697,036.
 Beneria, Giovanni Bessolo, to Olivetti, Ing. C., & C., S.p.A. Machine for forming thermoplastic resin parts by injection moulding. 3,702,750, 11-14-72, Cl. 425-130.000.
 Benerito, Ruth R.: See—
 Berni, Ralph J.; Benerito, Ruth R.; McKelvey, John B.; Ward, Truman L.; and Soignet, Donald M., 3,644,082.
 Gonzales, Elwood J.; Berni, Ralph J.; and Benerito, Ruth R., 3,645,667.
 Benes, Rudolf: See—
 Brazda, Ladislav; Prochazka, Miloslav; Kuhn, Vladimir; Ozdian, Josef; and Benes, Rudolf, 3,670,484.
 Benesovsky, Friedrich, to Schwarzkopf Development Corporation. Boron-containing rotating X-ray target. 3,689,795, 9-5-72, Cl. 313-330.000.
 BenetEAU, Donald Joseph. Nut welding electrode. 3,657,509, 4-18-72, Cl. 219-120.
 Benevento, Joseph, to Kimberly-Clark Corporation. Shirt fabrication. 3,636,567, 1-25-72, Cl. 2-115.
 Benevento, Joseph, to Kimberly-Clark Corporation. Disposable panty with improved crotch construction. 3,636,953, 1-25-72, Cl. 128-291.
 Beneze, Heinz Wilhelm, to Firestone Tire & Rubber Company, The. Mold for casting tires. 3,645,655, 2-29-72, Cl. 425-35.
 Beneze, Heinz Wilhelm, to Firestone Tire & Rubber Company, The. Method of making a pneumatic tire. 3,686,389, 8-22-72, Cl. 264-250.000.
 Beneze, Heinz Wilhelm, to Firestone Tire & Rubber Company, The. Apparatus for making tires. 3,695,808, 10-3-72, Cl. 425-426.000.
 Benford, Howard L.: See—
 Leising, Maurice B.; and Benford, Howard L., 3,650,162.
 Benford, James G.; and Stanley, Edward B., to United States Steel Corporation. Method of improving magnetic permeability of cube-

- on-edge oriented, silicon-iron sheet stock. 3,644,185, 2-22-72, Cl. 204-140.5.
 Benfur Engineering Company: See—
 De Groot, John E., 3,654,736.
 Benghiat, Isaac, to Universal Oil Products Company. Diesters of halo-substituted alkylphosphonates. 3,691,275, 9-12-72, Cl. 260-961.000.
 Benghiat, Isaac, to Universal Oil Products Company. Diesters of halo-substituted alkyloxyalkylphosphonates. 3,700,760, 10-24-72, Cl. 260-950.000.
 Bengtson, Barbara L.; and Lamm, William R., to Standard Brands Incorporated. Process for isomerizing glucose to fructose. 3,654,080, 4-4-72, Cl. 195-31.
 Bengtsson, Bigge, to TeBe Elprodukter AB. Closet means. 3,675,250, 7-11-72, Cl. 4-111.000.
 Bengtsson, Bjorn R. Plastic fins for archery arrows. 3,667,758, 6-6-72, Cl. 273-106.50c.
 Bengtsson, Lars-Erik; and Allander, Claes G., to AB Gustavsbergs Fabriken. Vacuum drain system. 3,651,524, 3-28-72, Cl. 4-211.
 Benham, Oliver C., Jr. Rack for sporting equipment. 3,650,407, 3-21-72, Cl. 211-14.
 Beni, Albert J.: See—
 Hoffmann, Norbert H., 3,646,547.
 Beniada, Maurice: See—
 Jacques, Jean-Marie; and Beniada, Maurice, 3,679,935.
 Benichou, Marcel M., to L'Organisation Economique Moderne. Suspension bar for files or other similar objects. 3,664,051, 5-23-72, Cl. 40-359.
 Benigno, Paolo; and Primicerio, Fernando, to Minnesota Mining and Manufacturing Company. Reel-storage box. 3,685,642, 8-22-72, Cl. 206-52.00f.
 Beninate, John V.; Daigle, Donald J.; Drake, George L., Jr.; Reeves, Wilson A.; and Donaldson, Darrell J., to United States of America, Agriculture. Fire resistant organic products and method for production. 3,697,316, 10-10-72, Cl. 117-136.000.
 Beninga, Duane H., to Coors Porcelain Company. Composite ceramic-organic material and method for making same. 3,666,613, 5-30-72, Cl. 161-168.000.
 Beninger, Darrell J.: See—
 Martin, John P.; Beninger, Darrell J.; and Lemon, John R., 3,675,317.
 Beninghof, William J., Jr., to Perception Technology Corporation. Characterizing audio signals. 3,639,691, 2-1-72, Cl. 179-1.
 Benis Company, Inc.: See—
 Meyer, Gaylord L., 3,653,583.
 Benitez, Ramon; and Oneto, Augusto Luis. Automatic machinery for manufacturing moist towlette packets. 3,688,465, 9-5-72, Cl. 53-64.000.
 Benjamin, J. Malvern, Jr., to Bionic Instruments, Inc. Obstacle detection system for use by blind comprising plural ranging channels mounted on spectacle frames. 3,654,477, 4-4-72, Cl. 250-217.
 Benjamin, John; and Jones, John Michael, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Aircraft landing radio guidance receivers. 3,648,288, 3-7-72, Cl. 343-108.
 Benjamin, John, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Aircraft landing radio guidance receiver which warns of signal reflections. 3,680,120, 7-25-72, Cl. 343-109.000.
 Benjamin, John Stanwood, to International Nickel Company, Inc., The. Dispersion strengthened electrical heating alloys by powder metallurgy. 3,660,049, 5-2-72, Cl. 29-182.5.
 Benjamin, John Stanwood, to International Nickel Company, Inc., The. Stainless steels by powder metallurgy. 3,696,486, 10-10-72, Cl. 29-182.500.
 Benjamin, Lawrence; and Sullivan, John F., to Procter & Gamble Company, The. Enzyme-containing detergent compositions. 3,635,828, 1-18-72, Cl. 252-99.
 Benjamin, Milton L.; Walker, David D.; and Miles, Wilbur N., to Erickson Tool Company. Instant change tool holder. 3,658,351, 4-25-72, Cl. 279-1.
 Benjamin, Milton L.; and Walker, David D., to Erickson Tool Company. Anti-chatter guides for spade drill. 3,658,434, 4-25-72, Cl. 408-200.
 Benjamin, Rose Ellen; and Hudis, Ann. Clothes rejuvenator. 3,670,425, 6-20-72, Cl. 34-46.000.
 Benjamin, Thae L.; and Reynolds, Carole A. Basket game utilizing convexly shaped paddles and an irregularly shaped ball. 3,674,270, 7-4-72, Cl. 273-101.000.
 Benjamins, Edwin, to Du Pont de Nemours, E. I., and Company. Inhibition of popcorn polymer formation in chloroprene. 3,634,526, 1-11-72, Cl. 260-652.5.
 Benk, Claus, to Edelmann & Ridder. Ski catching belt. 3,688,349, 9-5-72, Cl. 24-73.00r.
 Benke, Frank W.: See—
 Zickar, Frank R.; Benke, Frank W.; and Rotruck, James L., 3,657,808.
 Benke, Frank W.; and Uitto, Gary E., to Westinghouse Electric Corporation. Method of transposing sheet conductors. 3,633,272, 1-11-72, Cl. 209-602.
 Benkeser, Robert A.; and Smith, William E., to Purdue Research Foundation. Novel process for making halosilyl carbon compounds and novel halosilyl carbon compounds produced thereby. 3,699,141, 10-17-72, Cl. 260-448.20r.
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 Benkheiri, Paul: See—
 Amiable, Rene; Lhuillier, Jean-Noel; and Benkheiri, Paul, 3,667,391.
 Benko, Stephen Edward, Jr. Centralized greasing system. 3,658,154, 4-25-72, Cl. 184-8.
 Benmussa, Henri; Bui, Ngoc-Sanh; and Troubac, Gerard, to International Standard Electric Corporation. Telegraph line scanning system. 3,639,682, 2-1-72, Cl. 178-3.
 Benmussa, Henri; Bui, Ngoc-Sanh; and Troubac, Gerard, to International Standard Electric Corporation. Telegraph signal receiving arrangement for performing detection and processing of signals on incoming telegraph lines. 3,662,095, 5-9-72, Cl. 178-3.
 Benn, Walter R., to Searle, G. D., & Co. 3-Oxygenated 218-hydrocarbonsulfonyl-5- α pregna-17(20),20-dienes and 1,3,5(10)-tridehydro 19-nor derivatives corresponding. 3,639,435, 2-1-72, Cl. 260-397.5.
 Bennahmas, Daniel; Locklin, Harry Paul; and Locklin, Paul Gordon, to Hercules Incorporated. Synthesis and dispersion of resin particles in a continuous phase low molecular weight oxidized polyethylene binder. 3,682,854, 8-8-72, Cl. 260-29.10r.
 Benner, David E., to Avco Corporation. Airburst and inertia impact fuze assembly for munitions. 3,636,879, 1-25-72, Cl. 102-70.2.
 Benner, David E., to Avco Corporation. Bi-directional fuze assembly. 3,664,264, 5-23-72, Cl. 102-73.
 Benner Floyd E., Jr.; and Loehr, Clifford E., to PPG Industries, Inc. Method for uniform distribution of gases in an annulus and apparatus therefor. 3,692,055, 9-19-72, Cl. 137-604.000.
 Benner, Gereld S.: See—
 Bryson, Jay G.; Menapace, Henry R.; and Benner, Gereld S., 3,644,088.
 Benner, Harold Thomas Jr.; and Cloud, Charles E., to Cloud Machine Corporation. Method and apparatus for forming and filling individual pouches. 3,667,188, 6-6-72, Cl. 53-29.
 Benner, Robert James; Huxtable, Frank W., Jr.; and Jones, Joseph H., to General Motors Corporation. Fuel tank for vehicles. 3,633,609, 1-11-72, Cl. 137-551.
 Benner, Roland G.: See—
 Baron, Frank A.; Benner, Roland G.; and Weinberg, Alan E., 3,694,508.
 Bennes Marrel: See—
 Dekeyser, Lucien, 3,667,220.
 Dekeyser, Lucien, 3,685,921.
 Guillot, Jack, 3,652,178.
 Bennet, Maureen Constance. Buoyant aquatic amusement device with reinforcing cover. 3,677,539, 7-18-72, Cl. 272-1.00b.
 Bennethum, James E., to General Motors Corporation. Stirling engine control system. 3,699,770, 10-24-72, Cl. 60-24.000.
 Bennethum, James E., to General Motors Corporation. Rotary combustion engine. 3,699,929, 10-24-72, Cl. 123-8.090.
 Bennett, Alan E. C.; and Bewick, Michael. Transfusion needles. 3,670,729, 6-20-72, Cl. 128-214.400.
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 Bennett, Allan I., to Westinghouse Electric Corporation. Solar cell. 3,682,708, 8-8-72, Cl. 136-89.000.
 Bennett, Anthony B.: See—
 Bennett, Anthony B.; and Heppes, Aladar (said Heppes, assor. to said), 3,685,037.
 Bennett, Anthony B.; and Heppes, Aladar, said Heppes, assor. to said Bennett, Anthony B. Alarm system for business machines. 3,685,037, 8-15-72, Cl. 340-280.000.
 Bennett, Arthur D. Retainer for punch and die sets. 3,640,170, 2-8-72, Cl. 83-698.
 Bennett, Bailey: See—
 Bunk, Albert R.; Bennett, Bailey; Berry, David A.; Parkin, Bernard A., Jr.; Schuller, Walter H.; and Lawrence, Ray V., 3,652,467.
 Bunk, Albert R.; Bennett, Bailey; Berry, David A.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., 3,681,268.
 Bennett, Charles H., to Koehring Company. Die casting mold. 3,672,437, 6-27-72, Cl. 164-265.000.
 Bennett, Charles H. Power boat with trim tabs. 3,695,204, 10-3-72, Cl. 114-66.50p.
 Bennett, Donald L. Tools for applying self-adhesive surface covering material. 3,674,610, 7-4-72, Cl. 156-579.000.
 Bennett, Eugene E.: See—
 Stansell, Alpheus F.; and Bennett, Eugene E., 3,678,480.
 Bennett, Everett W.: See—

- Mui, Jeffrey Y. P.; and Bennett, Everett W., 3,666,782.
- Bennett, Everett W., to Union Carbide Corporation. Preparation of linear halosiloxanes and compounds derived therefrom. 3,642,851, 2-15-72, Cl. 260-448.2.
- Bennett, Everett W.; and Orenski, Peter, to Union Carbide Corporation. Preparation of aminophenyltrialkoxysilanes. 3,646,087, 2-29-72, Cl. 260-448.2.
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- Bennett, Fay M.: See—
Phillips, Cecil E.; and Bennett, Fay M., 3,673,687.
Phillips, Cecil E.; Bennett, Fay M.; and Larson, Robert L., 3,702,188.
- Bennett, Frank; and Conibear, Ivor John. Electrolytic hygrometer cells and method of using same. 3,696,007, 10-3-72, Cl. 204-1.00t.
- Bennett, Frank P.: See—
Szymer, Oleg; and Bennett, Frank P., 3,644,892.
- Bennett, Frank P., to GAF Corporation. Random selection system for a slide projector. 3,644,027, 2-22-72, Cl. 353-25.
- Bennett, Frank P., to GAF Corporation. Means for alternately indexing two slide trays which differ in respective distances between adjacent slide receiving spaces. 3,644,031, 2-22-72, Cl. 353-117.
- Bennett, Frank W.; and Van Delinder, Loren S., to Union Carbide Corporation. Anti-seize thread composition. 3,677,803, 7-18-72, Cl. 117-94.000.
- Bennett, Garry A.: See—
Najvar, Daniel J.; Parks, Christ F.; Bennett, Garry A.; and Nimerick, Kenneth H., 3,651,649.
- Bennett, George Henry: See—
Morley, Frederick William Walton; Bennett, George Henry; Harvey, Richard George; and Wilson, Alan, 3,684,857.
- Bennett, Grant S., to Western Geophysical Company of America. Marine imploder-type acoustic impulse generator. 3,642,090, 2-15-72, Cl. 181-5.
- Bennett, Harold L., to Dow Chemical Company. The device for measuring the friability of particulate solid materials. 3,636,772, 1-25-72, Cl. 73-432.
- Bennett, Harry B. Steering column construction. 3,707,096, 12-26-72, Cl. 74-492.000.
- Bennett, Homer A.: See—
Witt, Boston E.; and Bennett, Homer A., 3,634,226.
- Bennett, Howard M.: See—
Jensen, Thomas H.; and Bennett, Howard M., 3,652,243.
- Bennett, Howard W., to Armco Steel Corporation. Method of melting steel. 3,682,711, 8-8-72, Cl. 148-2.000.
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Hondermarck, Jean Claude; Bennett, Ian Cameron; and Guillo, Jacques, 3,705,082.
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- Bennett, James G.: See—
Cooper, Glenn D.; and Bennett, James G., 3,642,699.
Cooper, Glenn D.; and Bennett, James G., 3,661,848.
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- Bennett, John Charles, to Atomic Power Constructors Limited. Emergency nuclear reactor shutdown systems. 3,682,771, 8-8-72, Cl. 176-35.000.
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- Bennett, John D. Subsea towing vessel. 3,688,721, 9-5-72, Cl. 114-16.00r.
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- Bennett, John E.; and Briggs, Richard Craig, to Sylvania Electric Products, Inc. Razor assembly. 3,644,992, 2-29-72, Cl. 30-64.
- Bennett, John E.; and O'Leary, Kevin J., to Diamond Shamrock Corporation. Preparation of solid solutions of metallic oxide mixtures by flame-spraying. 3,677,975, 7-18-72, Cl. 252-518.000.
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- Bennett, John T. Tool holder with provisions for accurately positioning cutting inserts and an improved chip breaking indexable insert. 3,688,367, 9-5-72, Cl. 29-105.000.
- Bennett, Kenneth V. Airline oiler. 3,682,274, 8-8-72, Cl. 184-55.00a.
- Bennett, Lawrence R.: See—
Blau, Theodore H.; and Bennett, Lawrence R., 3,685,169.
- Bennett, Leonard W.; Hutchinson, Thomas R.; and Schilling, Winston H., to Motorola, Inc. Miniature transmitter receiver housing. 3,701,016, 10-24-72, Cl. 325-16.000.
- Bennett, Melvin L. End shield for paint roller. 3,685,084, 8-22-72, Cl. 15-230.110.
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- Bennett, Michael Camm, to Tate & Lyle Limited. Sugar refining. 3,698,951, 10-17-72, Cl. 127-48.000.
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- Bennett, Raymond G., to United Filtration Corporation. Crankcase ventilating valve. 3,659,573, 5-2-72, Cl. 123-119.
- Bennett, Raymond G.; and Luedi, Mark, to Novo Industrial Corporation-United Air Cleaner Division. Air cleaner with improved unloading apparatus. 3,696,591, 10-10-72, Cl. 55-337.000.
- Bennett, Richard H.: See—
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- Bennett, Richard J.: See—
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- Bennett, Richard J., to Phillips Petroleum Company. Dust-retentive article. 3,658,578, 4-25-72, Cl. 117-122.
- Bennett, Richard L., to Perkins Research & Mfg. Co. Apparatus for identifying telephone cable pairs. 3,699,274, 10-17-72, Cl. 179-175.000.
- Bennett, Robert B.: See—
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- Bennett, Robert Neil; Parker, Richard Nigel; and Burbidge, Bernard Whiting, to British Petroleum Company Limited. The. Production of lubricating oils. 3,663,423, 5-16-72, Cl. 208-59.
- Bennett, Ronald W.; Parker, Donald L.; and Shaw, Arthur R., to General Motors Corporation. Brake lining wear sensing circuit. 3,675,197, 7-4-72, Cl. 340-52.00a.
- Bennett, Roswell J., to Union Carbide Corporation. Oxygen-depolarized galvanic cell. 3,674,563, 7-4-72, Cl. 136-86.00a.
- Bennett, Samuel M. Toilet tank flush valves. 3,702,012, 11-7-72, Cl. 4-57.00p.
- Bennett, Sedgwick R.: See—
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- Bennett, Sydney, to Shaw, Joshua, & Sons Limited. Control device for a hydrostatic transmission and a hydrostatic transmission embodying such a device. 3,654,760, 4-11-72, Cl. 60-52.
- Bennett, Tarquin C. Bun warmer and steamer and hot dog cooker. 3,682,664, 8-8-72, Cl. 99-339.000.
- Bennett, Thomas M.: See—
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- Bennett, Willard H. Apparatus for producing a highly concentrated beam of electrons. 3,639,849, 2-1-72, Cl. 328-228.
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- Bennett, William C., to Novar Corporation. Character select indicator for typewriter. 3,679,037, 7-25-72, Cl. 197-19.000.
- Bennett, William C.; Condon, David C.; and Brink, Rodney O., to Novar Corporation. Digital data recording and reproducing system. 3,688,286, 8-29-72, Cl. 340-174.01g.
- Bennett, William Coffey; and Stastny, Edwin O., to Novar Corporation. Coaxial tape cartridge. 3,690,590, 9-12-72, Cl. 242-194.000.
- Bennett, William G.; and Miller, Donald M., to Teleflex, Inc. Remote control assembly. 3,662,617, 5-16-72, Cl. 74-501.00r.
- Bennett, William G., to Teleflex, Inc. Remote control assembly. 3,665,784, 5-30-72, Cl. 74-501.000.
- Bennett, William Raymond: See—
Cotton, Joseph Bernard; Bennett, William Raymond; Bell, John Alan; and Hayfield, Peter Charles Steele, 3,645,862.
- Bennetti, John G., to Pengo Corporation. Pilot bit with multiple cutting edges. 3,667,559, 6-6-72, Cl. 175-392.

- Bennigsen, Gerd Von, to Reinz Dichtungs-Gesellschaft mbH. Jacketed gasket. 3,653,674, 4-4-72, Cl. 277-231.
- Benning, Bennie LeRoy, to FMC Corporation. Production of barium hydroxide monohydrate. 3,661,520, 5-9-72, Cl. 23-186.
- Benning, Calvin J., to Grace, W. R., & Co. Radiation-initiated, self-sealing system for spacecraft. 3,666,133, 5-30-72, Cl. 220-15.
- Benning, Gregory M.; and Shipp, Dennis E., to Caterpillar Tractor Company. Router bit for scraper bowl. 3,643,357, 2-22-72, Cl. 37-141.
- Benning, Herman J.G.M.: See—
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- Benno, Edward L. Livestock feeding machine. 3,654,977, 4-11-72, Cl. 146-70.1.
- Beno, Emil V.; and Novak, Michael A. Novelty pocket item. 3,704,470, 12-5-72, Cl. 2-279.000.
- Benoist, Yves. Display unit for plants, particularly flowers. 3,657,840, 4-25-72, Cl. 47-41.
- Benoit, Henry F. Rag feeder. 3,640,377, 2-8-72, Cl. 198-178.
- Benoit, Henry F. Rag picker. 3,657,777, 4-25-72, Cl. 28-17.
- Benoit, Hubert J. O. H. Bag holder. 3,653,620, 4-4-72, Cl. 248-101.
- Benoit, Remi A. In-line centrifugal fan. 3,650,633, 3-21-72, Cl. 415-143.
- Benoit, Roland A.; and Curran, John H., to InterRoyal Corporation. Crib construction. 3,649,973, 3-21-72, Cl. 5-100.
- Benoit, Roland A., to Interroyal Corporation. Mounting device for electrical switch. 3,705,282, 12-5-72, Cl. 200-168.00r.
- Benoit, Yvonne R.: See—
Baxter, Frederick J.; and Benoit, Yvonne R., 3,690,277.
- Benoy, Gaston Jacob: See—
Rasschaert, Antoine Theofiel; Benoy, Gaston Jacob; and Van Besauw, Jan Frans, 3,637,787.
- Van Doorselaer, Marcel Karel; Benoy, Gaston Jacob; Van Vugt, Jaak Pieter; and Van Poucke, Raphael Karel, 3,658,546.
- Bense, William M., to Leesona Corporation. Strand control apparatus. 3,672,588, 6-27-72, Cl. 242-45.000.
- Bensel, Joachim: See—
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- Bensel, Joachim, to Siemens Aktiengesellschaft. Apparatus for measuring current in high voltage lines. 3,662,263, 5-9-72, Cl. 324-96.
- Benskin, Glen D.: See—
Le Vantine, Allan D.; and Benskin, Glen D., 3,648,045.
- Benslay, Roger M.: See—
Jones, Arthur L.; and Benslay, Roger M., 3,647,910.
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- Bensmiller, Richard E.: See—
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- Benson, Albert; and Karg, Gerhart, to Witco Chemical Corporation. Emulsification of hydrocarbons in aqueous electrolyte solutions. 3,634,284, 1-11-72, Cl. 252-312.
- Benson, Albert; and Mausner, Marvin, to Witco Chemical Corporation. Retardation of formation of color-forming bodies in alkylaryl sulfonic acids. 3,681,443, 8-1-72, Cl. 260-505.00p.
- Benson, Allen B.; and Hatley, Elbert Troy, to International Business Machines Corporation. Passive magnetic transfer of discrete magnetic information. 3,665,513, 5-23-72, Cl. 346-74.00m.
- Benson, Bengt Anders; and Hammarstrom, Karl Enar. Container or dispensing device for rolls of sheet material, such as paper, metal foil etc., 3,648,910, 3-14-72, Cl. 225-53.
- Benson, Carl I., Jr., to Paragon Gears Incorporated. Marine power transmission. 3,636,909, 1-25-72, Cl. 115-34.
- Benson, Charles R.: See—
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- Benson Equipment Co., Inc.: See—
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- Benson, Field and Epes: See—
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- Benson, Glendon M., to Physics International Company, mesne. Electromechanical actuator having an active element of electroexpansive material. 3,635,016, 1-18-72, Cl. 60-23.
- Benson, Gustav E.: See—
Marzocchi, Alfred; Benson, Gustav E.; and Leach, Robert E., 3,675,704.
- Benson, Gustav E.; and Pisani, James M., to Owens-Corning Fiberglas Corporation. Sewn tire cord splice and method. 3,672,148, 6-27-72, Cl. 57-159.000.
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- Benson, Harvey R.; and Ashley, Milton V., Jr., to United States of America, Army. Range safety device. 3,695,142, 10-3-72, Cl. 89-1812.
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- Benson, Homer E., to Benson, Field and Epes. Separation of CO₂ and H₂S from gas mixtures. 3,685,960, 8-22-72, Cl. 23-2.00r.
- Benson Industries Limited: See—
Benson, Russell Richard, 3,703,970.
- Benson, James R., to Durum Chemical Corporation. Chromatographic method. 3,686,118, 8-22-72, Cl. 210-31.00c.
- Benson, John F.; and Shern, Daniel R., to Procter & Gamble Company. The. Apparatus for adjusting the center distance between bearing support members. 3,684,332, 8-15-72, Cl. 308-60.000.
- Benson, John T.: See—
Baginski, Albert R.; Benson, John T.; DeGelder, Jacob; and Marason, Gabriel, Jr., 3,645,037.
Lemkin, Jack L.; Leistikow, Gerard K.; Edmisson, Russell C.; and Benson, John T., 3,670,449.
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- Benson, Kenneth E.: See—
Beadle, William E.; Benson, Kenneth E.; Mathews, James R.; and Von Ohlsen, Louis H., Jr., 3,669,768.
- Benson, Marshall, to Xerox Corporation. Xerographic development apparatus. 3,696,784, 10-10-72, Cl. 118-637.000.
- Benson, Merle K., 1/2 to Brown, Howard W. Tire slitting machine. 3,648,752, 3-14-72, Cl. 157-13.
- Benson, Raymond E., to Olin Corporation. Vaporizing fitting for propane stove. 3,643,645, 2-22-72, Cl. 126-38.
- Benson, Reginald B. G. Electromagnetic devices. 3,639,870, 2-1-72, Cl. 335-257.
- Benson, Robert W.; Chapman, James Ronald; Reed, Robert G.; and Smith, Hoyt L., to Cutters Machine Company, Inc. Electrically controlled cloth spreading machine. 3,663,006, 5-16-72, Cl. 270-31.
- Benson, Robert W.; and Reed, Robert G., to Cutters Machine Company, Inc. Cloth feed control for spreading machine. 3,684,273, 8-15-72, Cl. 270-31.000.
- Benson, Royal H., to Monsanto Company. Analytical method and apparatus. 3,660,036, 5-2-72, Cl. 23-230.
- Benson, Royal H., to Monsanto Company. Liquid scintillator compositions for gamma-ray counting. 3,673,100, 6-27-72, Cl. 252-301.30r.
- Benson, Royal H.; and Bodre, Robert J., to Monsanto Company. Safety device for removing tritium gas from a gas stream. 3,679,366, 7-25-72, Cl. 23-254.00r.
- Benson, Russell Richard, to Benson Industries Limited. Apparatus for treating waste material. 3,703,970, 11-28-72, Cl. 241-241.000.
- Benson, Sidney W.; Haugen, Gilbert R.; and Jackson, Roland S., to Stanford Research Institute. Detection device. 3,647,387, 3-7-72, Cl. 23-232.
- Benson, Victor M.; and Klein, Stuart K., to Honeywell Inc. Interlocking data subprocessors. 3,651,482, 3-21-72, Cl. 340-172.5.
- Benson, Victor Mark: See—
Molloy, Kenneth H.; Ward, John P.; and Benson, Victor Mark, 3,675,196.
- Benson, William; and Short, Gordon, to Cotton Silk and Man-Made Fibres Research Association. The. Method and apparatus for forming yarn. 3,636,693, 1-25-72, Cl. 57-58.95.
- Benson, William G., to Litton Business Systems, Inc. Handheld magnetic transducer with tip members having a hemispherical reading portion. 3,674,943, 7-4-72, Cl. 179-100.20c.
- Benson-Lehner Corporation: See—
Kan, Philip T.; and Huson, Andrew S., 3,636,314.
- Bensussan, Andre, to Thomson-CSF. Pulse electron gun. 3,649,868, 3-14-72, Cl. 315-39.
- Bent, Christopher James; Flynn, Terence David; and Glover, Brian, to Imperial Chemical Industries, Limited. Process for transfer dyeing of synthetic textile materials. 3,702,752, 11-14-72, Cl. 8-2.500.
- Bent, Keith Joseph: See—
Aldridge, David Cecil; Broadbent, Douglas; Hemming, Harold George; Turner, William Brian; and Bent, Keith Joseph, 3,661,935.
- Bent, Keith Joseph; and Cox, John Michael, to Imperial Chemical Industries Limited. Metal complexes. 3,682,971, 8-8-72, Cl. 260-343.20r.
- Bent, Richard L.; and Mowrey, Rowland G., to Eastman Kodak Company. Color photographic processes. 3,656,950, 4-18-72, Cl. 96-22.
- Bent, Richard L.; and Mowrey, Rowland G., to Eastman Kodak Company. Reversal color photographic processes. 3,658,525, 4-25-72, Cl. 96-22.
- Bentall, Richard Hugh Cameron, to National Research Development Corporation. Fortal blood sampling endoscope. 3,685,509, 8-22-72, Cl. 128-2.00f.
- Bente, Waldama. Fluidized sand trap ejector. 3,677,590, 7-18-72, Cl. 291-3.000.
- Benteler, Helmut; and Lachenmayer, Wilhelm, to Benteler-Werke AG. Method of jacketing tubular stock with polyolefin foam. 3,649,730, 3-14-72, Cl. 264-47.
- Benteler, Helmut; Hartmann, Franz-Josef; and Hefendehl, Heinz, to Benteler-Werke Aktiengesellschaft. Method for manufacturing shafts for vehicles. 3,668,918, 6-13-72, Cl. 72-364.000.
- Benteler-Werke AG: See—
Benteler, Helmut; and Lachenmayer, Wilhelm, 3,649,730.

- Hartmann, Franz-Josef; and Lachenmayer, Wilhelm, 3,635,615.
Lachenmayer, Wilhelm, 3,661,184.
Benteler-Werke Aktiengesellschaft: *See—*
Benteler, Helmut; Hartmann, Franz-Josef; and Hefendehl, Heinz, 3,668,918.
Bentex Pharmaceutical Company: *See—*
Svajda, Leonard J., 3,689,636.
Bentfors, Karl Waldemar. Method of producing insulating panels. 3,650,871, 3-21-72, Cl. 156-269.
Bentholm, Svend Asger Rud; and Koenen, Wilhelm Engelinus, to Organon Inc. Process for the manufacture of rapidly disintegrating solid dosage unit forms. 3,679,794, 7-25-72, Cl. 424-148.000.
Bentin, John, Inc.: *See—*
Bosshardt, William, 3,652,083.
Bentkowsky, Jerome; and Beran, W. Tait, to United States of America, Navy, mesne. Hydraulic load limiting system. 3,667,227, 6-6-72, Cl. 60-53.0ww.
Bentley, Allan M.; and Christensen, Elmer, to Black Clawson Company, The. Log barker. 3,667,517, 6-6-72, Cl. 144-208.
Bentley, Arthur P. Reduction gear transmission. 3,633,430, 1-11-72, Cl. 74-690.
Bentley, David J., Jr.: *See—*
Sirota, Julius; Bentley, David J., Jr.; and Jubilee, Benjamin D., Jr., 3,677,985.
Bentley Engineering Company Limited, The: *See—*
Findlay, Peter M.; and Phillips, Raymond Henry, 3,631,690.
Gell, Dennis; and Spurling, Arthur William, 3,653,231.
Townsend, Keith Gerald; and Harlow, David Arthur, 3,636,732.
Townsend, Keith Gerald; and Harlow, David Arthur, 3,703,819.
Bentley Engineering Company, The: *See—*
Townsend, Keith Gerald; and Harlow, David Arthur, 3,667,256.
Bentley, Floyd Edward; and Godfrey, Norman Bell, to Jefferson Chemical Company, Inc. Accelerator combination for epoxy curing. 3,639,928, 2-8-72, Cl. 260-47.
Bentley, George L.; and Roe, Jonas L., to Santa Cruz Aggregates Co. Liquid filter for removing fine clay particles and the like. 3,684,098, 8-15-72, Cl. 210-374.000.
Bentley Machine Development Company Limited, The: *See—*
Gostelow, Daniel William Fredrick, 3,678,710.
Bentley, Ralph L. Heater. 3,694,622, 9-26-72, Cl. 219-213.000.
Bentley, William: *See—*
Jorgensen, Adam A.; Bentley, William; and Urycki, Edward, 3,676,747.
Benton Corporation: *See—*
Sherman, Clarence A., 3,635,028.
Benton, Elton J.: *See—*
Kalousek, George L.; and Benton, Elton J., 3,698,924.
Benton, Richard; and Gonzeles, Michael, to Dibble, Leland, Jr., mesne. Marble labyrinth puzzle. 3,689,074, 9-5-72, Cl. 273-153.00r.
Benton, Richard H.: *See—*
Gonzales, Michael; Benton, Richard H.; and Moore, William G., 3,706,457.
Benton, Robert C.; and Heffner, Blair W., to Chemcut Corporation. Troughed strip monitoring type speed control for continuous etcher. 3,657,049, 4-18-72, Cl. 156-345.
Benton, Robert C.; and Heffner, Blair W., to Chemcut Corporation. Built in type speed control for conveyorized continuous etcher. 3,663,724, 5-16-72, Cl. 156-345.
Benton, Stephen A., to Polaroid Corporation. Method for making reduced bandwidth holograms. 3,633,989, 1-11-72, Cl. 350-3.5.
Benton, Stephen A., to Polaroid Corporation. Direct orthoscopic stereo panoramagram camera. 3,657,981, 4-25-72, Cl. 95-18.
Bentsen, Louis J.: *See—*
Smead, Robert G.; and Bentsen, Louis J., 3,672,569.
Bentsen, Louis J., to Honeywell Inc. Diaphragm logic control circuit for electric heating system. 3,670,745, 6-20-72, Cl. 137-84.000.
Bentsen, Per: *See—*
Kamins, Seymour; Rosenberg, Norman; and Bentsen, Per, 3,698,289.
Bentvelsen, Petrus A. C., to NKF Kabel N.V. Electric cable insulating housing filled with high resistance material. 3,634,603, 1-11-72, Cl. 174-73.
Bentvelzen, Joseph Maria: *See—*
Brandts, Theodorus Gerardus; Lichtenberger, Joseph Alois; and Bentvelzen, Joseph Maria, 3,639,199.
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Bentz, Alan P.; and Mezzino, Joseph F., to General Foods Corporation. Earthy flavor composition comprising diacetyl and 2,4,5-trimethyl oxazole. 3,666,494, 5-30-72, Cl. 99-140.
Bentz, Alan P.; and Scarpellino, Richard, to General Foods Corporation. Flavor enhancing materials and method of preparing same. 3,676,156, 7-11-72, Cl. 99-140.00r.
Bentz, Francis: *See—*
Engelhard, Helmut; Bentz, Francis; Giebler, Wolfgang; and Nischk, Gunther-Ernst, 3,634,545.
Bentz, Francis; Lesch, Dieter; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of diarylethers. 3,634,519, 1-11-72, Cl. 260-612.
Bentz, Raymond L.: *See—*
Taylor, Lawrence B.; Bentz, Raymond L.; and Porter, Robert B., 3,706,535.
Benzien, Leonard T., to Shriver, T., & Company, Inc. Plate shifter and scraper assembly for filter presses. 3,637,082, 1-25-72, Cl. 210-225.
Benzman, Louis, to Electrocopy Corporation. Non-aligned image optical system for an electrostatic copy machine. 3,656,848, 4-18-72, Cl. 355-8.
Beaward, Harold. Compact tackle and utility box. 3,668,802, 6-13-72, Cl. 43-57.500.
Beaware, Robert Edgar, to Allen & Company F.O.F. Proprietary Funds, Ltd., mesne. Sealing mechanism. 3,642,248, 2-15-72, Cl. 251-172.
Beny, Janos: *See—*
Sims, Anson; Stastny, Edwin O.; and Beny, Janos, 3,641,704.
Beny, Janos; Bosley, Denis V.; and Kennedy, Melvin R., to Mattel, Inc. Toy means for measuring toy vehicle drag and/or drift. 3,654,728, 4-11-72, Cl. 46-39.
Beny, Janos; Kingsbury, LC James; and Scribner, David L., to Mattel, Inc. Toy coupling apparatus and method for uncoupling same. 3,678,618, 7-25-72, Cl. 46-221.000.
Benz & Hilgers GmbH: *See—*
Reinecke, Gunter, 3,659,728.
Benz, Emil: *See—*
Dosch, Peter; and Benz, Emil, 3,644,754.
Benz, Gerhard: *See—*
Seppala, Harold J.; and Benz, Gerhard, 3,640,944.
Benz, Hanspeter, to Varian Associates. Method and apparatus for automatic phase control in a fourier analyzed readout of impulse resonance data. 3,674,998, 7-4-72, Cl. 235-151.300.
Benz, Helmut: *See—*
Neuhauser, Hans; Benz, Helmut; and Gukelberger, Werner, 3,673,919.
Benz, Jakob; and Schweizer, August, to Sandoz Ltd.; a/k/a Sandoz A.G. Pyrimidine dyestuffs. 3,660,386, 5-2-72, Cl. 260-242.000.
Benz, John W., to Standard Pressed Steel Co. Method of lubricating metal fasteners with an aqueous lubricant composition. 3,634,129, 1-11-72, Cl. 117-119.6.
Benz, Mark G.: *See—*
Martin, Donald L.; and Benz, Mark G., 3,676,577.
Martin, Donald L.; and Benz, Mark G., 3,682,716.
Benz, Mark G., to General Electric Company. Sintered cobalt-rare earth intermetallic process using solid sintering additive. 3,655,463, 4-11-72, Cl. 148-101.
Benz, Mark G., to General Electric Company. Process of preparing liquid sintered cobalt-rare earth intermetallic product. 3,655,464, 4-11-72, Cl. 148-101.
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Benz, Mark G., to General Electric Company. Method of producing a sintered cobalt-rare earth intermetallic product. 3,695,945, 10-3-72, Cl. 148-103.000.
Benz, Willi, to Schloemann Aktiengesellschaft. Levelling machine for sheet and strip metal. 3,650,137, 3-21-72, Cl. 72-165.
Benze, David L.: *See—*
Edwards, Roderick Y., Jr.; and Benze, David L., 3,691,781.
Benzing, Ernst, Kontrolluhrenfabrik, Fried, Firma: *See—*
Graf, Eckhart, 3,678,227.
Benzing, Robert J.: *See—*
Clow, William L.; Benzing, Robert J.; and McConnell, Bobby D., 3,674,690.
Benzole Producers Limited: *See—*
Girling, Geoffrey William, 3,652,230.
Benzoni, Luigi: *See—*
Albanese, Pietro; Benzoni, Luigi; Corain, Benedetto; and Turco, Aldo, 3,686,264.
Pasquino, Pietro; Benzoni, Luigi; Carnisio, Giuseppe; and Colombo, Luigi, 3,697,578.
Bequet, Jean Francois; Van Asbroeck, Roger; and Du Bois, Paul, to Solvay & Cie. Bidirectional oriented corrugated plates. 3,661,694, 5-9-72, Cl. 161-133.
Beran, W. Tait: *See—*
Bentkowsky, Jerome; and Beran, W. Tait, 3,667,227.
Beran, Wilhelmine, to Laevosan-Gesellschaft Chem. Pharm. Industrie Frank & Dr. Freudl. Steroid compounds effective against, cardiac conditions and method of their preparation. 3,706,727, 12-19-72, Cl. 260-210.500.
Berard, Raymond A.: *See—*
Castner, Claire; and Berard, Raymond A., 3,642,942.
Castner, Claire J.; Russo, Robert V.; and Berard, Raymond A., 3,670,050.
Berardi, Martin J. Reactor filter assembly. 3,651,942, 3-28-72, Cl. 210-140.
Berardi, Michael P. Electrical musical stringed instruments. 3,696,700, 10-10-72, Cl. 84-291.000.
Berberian, Dicran A.: *See—*
Slighter, Ralph G.; and Berberian, Dicran A., 3,663,693.
Berberich, Norbert J., Jr.: *See—*
Cook, Elton S.; and Berberich, Norbert J., Jr., 3,641,247.

- Berbnier, Heinz: *See—*
Trieschmann, Hans-Georg; Unterstenhoefer, Leo; and Berbnier, Heinz, 3,673,141.
Berch, Julian: *See—*
Getchell, Nelson F.; Berch, Julian; and Hollies, Norman R.S., 3,642,428.
Berchak, James L. Knock-down garment rack with selectively positionable wheels. 3,705,731, 12-12-72, Cl. 280-36.00r.
Bercheux, Marcel, to Boussois Souchon Neuvessel. Device for locking door and window leaves. 3,631,629, 1-4-72, Cl. 49-256.
Berchicci, Emilio. Device for anatomically positioning the human body against a seat back. 3,642,319, 2-15-72, Cl. 297-284.
Berchou, William J., to Acme Highway Products Corporation. Sealing member. 3,645,176, 2-29-72, Cl. 94-18.
Bercovitz, Nathaniel, Jr., to Collins Radio Company. Phase detector using logic gating circuits. 3,659,196, 4-25-72, Cl. 324-83.00a.
Bercz, Jeno Peter: *See—*
Hunkar, Denes B.; and Bercz, Jeno Peter, 3,694,424.
Berczi, Charles N., to Deering Milliken Research Corporation. Coated fabrics. 3,661,692, 5-9-72, Cl. 161-89.
Berczynski, Frank A., to Anderson, A. E., Construction Corporation. Metallurgical furnace with cartridge clay gun means. 3,682,456, 8-8-72, Cl. 266-24.000.
Berdan, Betty L.: *See—*
Selker, Milton L.; Berdan, Betty L.; and Luce, Betty M., 3,644,105.
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Berca Road Auto Body, Inc.: *See—*
Martin, Albert Michael, 3,688,383.
Berecki, William Arthur: *See—*
Bovenkerk, Harold Paul; and Berecki, William Arthur, 3,645,706.
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Berejka, Anthony J.: *See—*
Higgins, John J.; Berejka, Anthony J.; and Spenadel, Lawrence, 3,654,005.
Berelc, Dorothy C.: *See—*
Schrank, Shirley L.; Berelc, John M.; Berelc, Dorothy C.; and Schrank, Charles O., 3,677,272.
Berelc, John M.: *See—*
Schrank, Shirley L.; Berelc, John M.; Berelc, Dorothy C.; and Schrank, Charles O., 3,677,272.
Beremard, Gerald B.: *See—*
Petrasek, Donald W.; Signorelli, Robert A.; Weeton, John W.; and Beremard, Gerald B., 3,653,882.
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Berendes, Otto: *See—*
Neuner, Otto; Dorlars, Alfons; Schellhammer, Carl-Wolgan; and Berendes, Otto, 3,646,052.
Berendsen, Jules Robert: *See—*
Willems, Jozef Frans; Berendsen, Jules Robert; Pollet, Robert Joseph; and Vandenberghe, Antoon Leon, 3,689,273.
Berendt, Gerald C.; and Melanson, Leslie B. Link separator. 3,646,637, 3-7-72, Cl. 17-1.
Berendt, Gerald C.; and Melanson, Leslie B. Link separator. 3,659,316, 5-2-72, Cl. 17-1.
Berens, Alfred S., to Federal-Mogul Corporation. Bidirectional hydrodynamic shaft seal. 3,672,690, 6-27-72, Cl. 277-134.000.
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Miller, Eugene J., Jr.; Mais, Ago; Berenschot, Donald J.; and Berger, Robert L., 3,694,409.
Berenson, Herman; Stonier, Robert Alden; and Wiese, Eugene Everett, to American Cyanamid Company. Germicidal detergent compositions in controlling dandruff. 3,697,655, 10-10-72, Cl. 424-204.000.
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Beresic, John I. Hopper material supply indicator. 3,697,708, 10-10-72, Cl. 200-61.210.
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Berestov, Evgeny Stepanovich: *See—*
Bekhtle, Georgy Alexandrovich; Myasnikov, Nikolai Fedorovich; Mitrofanov, Jury Eremeevich; Berestov, Evgeny Stepanovich; Kauvasinsky, Albert Frantsevich; Leibson, Mark Lazarevich; and Derkach, Viktor Gershovich, 3,690,454.
Berestovoi, Anatoly Mikhailovich: *See—*
Ivchenko, Georgy Semenovich; Berestovoi, Anatoly Mikhailovich; Khanchas, Vladislav Fedorovich; and Nikodimov, Anatoly Pavlovich, 3,669,317.
Berestovsky, Georgy Grigorievich: *See—*
Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itsikson, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorievich, 3,705,793.
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Beretta, Pier Carlo, to Fabbrica d'Armi P. Beretta S.p.A. Automatic rifle. 3,675,534, 7-11-72, Cl. 89-185.000.
Bereza, Albert: *See—*
Cherry, Sidney J.; Wayland, Paul O.; and Bereza, Albert, 3,657,502.
Cherry, Sidney J.; Bereza, Albert; and Wayland, Paul O., 3,670,129.
Bereza, Albert, to Westinghouse Electric Corporation. Method of sealing and evacuating vacuum envelopes. 3,656,225, 4-18-72, Cl. 29-472.7.
Berezentsev, Jury Sergeevich: *See—*
Vlasov, Viktor Grigorievich; Berezentsev, Jury Sergeevich; Mukhin, Vladimir Vanovich; and Kravchenko, Zhorzh Yakovlevich, 3,699,572.
Berezhnaya, Lidia Fedotovna: *See—*
Kostenko, Alla Elisbarovna; Karpukhina, Valentina Vasilievna; Stovpyaga, Valentina Petrovna; Freidlin, Gilia Naumovich; Adamov, Ary Artemovich; and Berezhnaya, Lidia Fedotovna, 3,660,528.
Berezin, Evelyn; Wolf, Edgar; Cohen, William D.; and Marino, Francis C., to Digitronics Corporation. Information signal generation apparatus. 3,651,311, 3-21-72, Cl. 235-61.11.
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Berezin, Gilbert H., to Du Pont de Nemours, E. I., and Company. Azatricyclic lactams. 3,661,896, 5-9-72, Cl. 260-239.2.
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Berezovsky, Pavel Iosipovich: *See—*
Andrusenko, Petr Ivanovich; Dolganov, Kint Evgenievich; Kovalev, Alexandr Ivanovich; Berezovsky, Pavel Iosipovich; Dmitrenko, Vladimir Ilich; Shukshin, Nikolai Pavlovich; Gutarevich, Jury Feodosievich; Kislov, Vladimir Grigorievich; Chevtsev, Andrei Vasilievich; Koshman, Eduard Ivanovich; and Filippov, Vladimir Vasilievich, 3,676,023.
Berezowski, Jaroslaw, to Sealectro Corporation. Electro-mechanical keyboard independently operated switch mechanism with improved conductive resilient actuating means. 3,641,286, 2-8-72, Cl. 200-5.
Berg & Burg N.V.: *See—*
de Haas, Hendrik Antoon Lorentz, 3,653,640.
Berg, Alan D.: *See—*
Epple, Peter C.; and Berg, Alan D., 3,633,966.
Berg, Alan J.: *See—*
Innis, Robert T.; Berg, Alan J.; and Santilli, James N., 3,707,650.

- Berg, Alex; Eberhardt, Hans; Machleidt, Hans; Wildfeuer, Alexander; and Goeth, Hanns, to Boehringer Ingelheim G.m.b.H. 2-Benzoxazolyl Nemethyl-N-naphthylthiocarbamate. 3,635,998, 1-18-72, Cl. 260-307.
- Berg, Anthony David, to Bell Telephone Laboratories, Incorporated. Video signal processing. 3,697,682, 10-10-72, Cl. 178-6.800.
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Edstrom, John Olof; Innerman, Sven Eric; Berg, Bengt Henrik; and Mills, Brian Edward, 3,690,850.
- Berg, Coleman David, to Fleck Industries, Inc. Paper roll dispenser. 3,677,485, 7-18-72, Cl. 242-55.300.
- Berg, David A., to Allis-Chalmers Manufacturing Company. Hydraulic cylinder. 3,643,551, 2-22-72, Cl. 92-128.
- Berg, David A., to Allis-Chalmers Manufacturing Company. Bulldozer blade mounting. 3,674,096, 7-4-72, Cl. 172-805.000.
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- Berg, Dennis Richard. Apparatus for preservation of meat. 3,677,167, 7-18-72, Cl. 99-234.000.
- Berg, Douglas A.: See—
McMullen, James M.; and Berg, Douglas A., 3,662,174.
- Berg, Edward J. Embroidery thread box. 3,664,719, 5-23-72, Cl. 312-185.
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Bakermans, Johannes C. W., 3,664,015.
Balmer, John D., 3,641,647.
Balmer, John D.; and Kendall, Jerry A., 3,706,241.
Berg, Quentin; and Kendall, Jerry A., 3,677,116.
Black, Richard W.; and Evans, Robert F., 3,697,933.
Brubaker, Weldon L., 3,702,104.
Friend, Lindsay C., 3,681,738.
Landman, Dirk, 3,701,071.
Mancini, Lloyd, 3,654,583.
Olsson, Billy E., 3,681,744.
Olsson, Billy E., 3,696,319.
Primorac, Michel M., 3,654,592.
Seltzer, Thomas M., 3,650,007.
Stizler, Fred C., 3,654,594.
Thoms, William C., 3,664,004.
Thoms, William C.; and Mancini, Lloyd, 3,665,375.
- Berg, Gerhard: See—
Schafer, Johannes; Berg, Gerhard; and Benedikter, Kurt, 3,704,286.
- Berg, Gunter Rudolf. Deep-drawing press. 3,707,086, 12-26-72, Cl. 72-349.000.
- Berg, Jacob, K.G.: See—
Krautkramer, Gunter J., 3,658,218.
- Berg, John R.: See—
Newman, Donald J.; Williams, Donald J.; and Berg, John R., 3,682,684.
- Berg, Kjell Willy, to Haldex Aktiebolag. Taximeter arrangements. 3,703,985, 11-28-72, Cl. 235-30.000.
- Berg, Lawrence F., to Caterpillar Tractor Company. Hydraulic jack stroke cushioning means. 3,704,650, 12-5-72, Cl. 91-395.000.
- Berg, Lloyd; and Jarrett, James H., to United States of America, Interior. Preparation of caronic acid from delta-3-carene. 3,637,823, 1-25-72, Cl. 260-514.
- Berg, Lorne D.; and Rymes, John E., to Mannix Co., Ltd. Curving chute apparatus and method for positioning railroad ties. 3,683,816, 8-15-72, Cl. 104-6.000.
- Berg, Louis L., to Creative Tool Company. High energy impact wrench assembly. 3,675,515, 7-11-72, Cl. 81-121.000.
- Berg Manufacturing Company, The: See—
Klimek, Boleslaw, 3,682,438.
- Berg Manufacturing Company, The, mesne: See—
Berg, Arthur A.; and Klimek, Boleslaw, 3,696,711.
Cannella, Joseph L., 3,646,734.
Horowitz, Charles, 3,636,822.
- Berg, Markus: See—
Fries, Walter; Berg, Markus; Dohr, Manfred; and Kirstahler, Alfred, 3,676,338.
Nagel, Horstmar; Berg, Markus; Lohr, Albrecht; and Adler, Wilfried, 3,700,600.
- Berg, Markus; Fries, Walter; and Kirstahler, Alfred, to Henkel & Cie G.m.b.H. Combinations of detergents with controlled foaming properties and washing agents containing them. 3,676,340, 7-11-72, Cl. 252-8.750.
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- Berg, Max H., to Berg, Peter, & Co., Inc. Collapsible carton. 3,670,948, 6-20-72, Cl. 229-33.000.
- Berg Mfg. & Sales Co.: See—
Campanini, Sergio, 3,692,366.
Klimek, Boleslaw, 3,653,721.
Klimek, Boleslaw, 3,653,722.
- Berg, Morris: See—
Schwyn, Raymond E.; and Berg, Morris, 3,637,435.
- Berg, Nils-Christian; and Soininen, Mauri Aatos, to Valmet Oy. Ventilating device for a multicylinder drier. 3,668,787, 6-13-72, Cl. 34-111.000.
- Berg, Peter; and Linder, Bertil C., to Cartridge Television, Inc., mesne. Rotary head assembly for tape transport with amplifier carried by the rotor. 3,673,349, 6-27-72, Cl. 179-100.20t.
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Berg, Max H., 3,670,948.
- Berg, Peter G., to Texas Instruments, Incorporated. Thermal actuator. 3,686,857, 8-29-72, Cl. 60-23.000.
- Berg, Quentin. Terminal tab strip and applicator. 3,669,332, 6-13-72, Cl. 227-80.000.
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- Berg, Ralph L., to GAF Corporation. Two lamp light comparison type densitometer. 3,653,772, 4-4-72, Cl. 356-205.
- Berg, Richard E.: See—
Cummings, John P.; and Berg, Richard E., 3,676,321.
- Berg, Robert A.; Decker, Robert W.; Hart, Donald R.; and Weber, David J., to Wallace-Murray Corporation. Method and apparatus for straightening elongated articles. 3,645,119, 2-29-72, Cl. 72-90.
- Berg, Robert H. Method of mounting disks in glass walls, heat working only once. 3,672,858, 6-27-72, Cl. 65-43.000.
- Berg, Robert H. Average volume digital computer and digital volume totalizer for cells and particles. 3,699,319, 10-17-72, Cl. 235-151.340.
- Berg, Rudolph G.: See—
Tate, Bryce E.; and Berg, Rudolph G., 3,697,453.
- Berg, Rudolph G., to Pfizer Inc. Preparation of citraconic and itaconic acids. 3,701,805, 10-31-72, Cl. 260-531.000.
- Berg, Vernon R., Jr.: See—
Berg, Vernon R., Sr.; and Berg, Vernon R., Jr., 3,691,928.
- Berg, Vernon R., Sr.; and Berg, Vernon R., Jr. Barn ventilator. 3,691,928, 9-19-72, Cl. 98-33.000.
- Bergamini, Giorgio. Force-balance pneumatic regulator with resilient force fulcrum, having high sensibility and precision and easy, continuous gain regulation. 3,682,048, 8-8-72, Cl. 92-37.000.
- Bergan, Philipp D. System of domes for use in molding concrete slabs. 3,638,902, 2-1-72, Cl. 249-28.
- Bergandi Manufacturing Company, Inc.: See—
Rohrbacher, Herbert E., 3,667,509.
- Berge, Arthur. Program display device. 3,680,525, 8-1-72, Cl. 116-135.000.
- Berge, C. Frederick: See—
Crow, Harold E.; Moffa, Joseph; and Berge, C. Frederick, 3,694,007.
- Berge, Jacques Marie Albert Charles. Device for continuous filtering of cheese curd, in particular curdled milk. 3,691,633, 9-19-72, Cl. 31-46.000.
- Berge, Ralph L.; Young, James L.; and Ulmer, Arnold G., to GAF Corporation. Contact printing apparatus. 3,684,373, 8-15-72, Cl. 355-111.000.
- Bergem, Normann; Blindheim, Ulf; Onsager, Olav-Torgeir; and Wang, Hagbarth, to Sentralinstitutt for Industriell Forskning. Process for the production of C₅-C₈ olefines. 3,652,687, 3-28-72, Cl. 260-683.15.
- Bergemann, Gerald T.; and Dulaney, Ernest N., to Collins Radio Company. Method and means for measuring weighted noise in a communication link. 3,639,703, 2-1-72, Cl. 170-175.3.
- Bergemann, Werner E.; Hunkeler, Ernst J.; and Pedersen, Harry, to Gleason Works, The. Machine for shaping gears. 3,659,496, 5-2-72, Cl. 90-8.
- Bergendahl, Hans-Georg. Segmented roller briquette press with cooled mounting rings. 3,635,637, 1-18-72, Cl. 425-363.
- Bergendahl, Russell J.: See—
Chute, Richard; and Bergendahl, Russell J., 3,632,135.
- Berger, Abe: See—
Brown, Edgar D., Jr.; and Berger, Abe, 3,649,660.
Hamilton, Stephen B.; Beers, Melvin D.; Berger, Abe; and Selin, Terry G., 3,661,817.
Hamilton, Stephen B.; Beers, Melvin D.; and Berger, Abe, 3,700,714.
Holub, Fred F.; Berger, Abe; and Selin, Terry G., 3,657,304.
Holub, Fred F.; Berger, Abe; and Selin, Terry G., 3,673,155.
Holub, Fred F.; Berger, Abe; Hardman, Bruce B.; and Urkevich, Michael P., 3,701,795.
Wilks, Edward V.; and Berger, Abe, 3,637,750.
- Berger, Abe, to General Electric Company. Method for producing silylalkyl mercaptans with silicon hydride groups. 3,632,826, 1-4-72, Cl. 260-448.2.
- Berger, Abe, to General Electric Company. Silyl-containing dithiocarbamates with functional groups on sulfuralkyl ester side chain. 3,642,855, 2-15-72, Cl. 260-448.8.
- Berger, Abe, to General Electric Company. Process for producing organosilicon compounds with isothiocyanate substituent bonded through divalent bridge. 3,646,089, 2-29-72, Cl. 260-448.2.
- Berger, Abe, to General Electric Company. Cyanoalkyl (organofunctional) silicon compounds. 3,646,091, 2-29-72, Cl. 260-448.2.

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- Berger, Abe; and Jaleel, Jalal S., to General Electric Company. Cyanoalkylesteralkylsilanes, amino-alkylesteralkylsilanes, polysiloxanes, and polishes formed therefrom. 3,668,229, 6-6-72, Cl. 260-448.80r.
- Berger, Abe, to General Electric Company. Functional group containing thioether silanes. 3,678,089, 7-18-72, Cl. 260-448.20n.
- Berger, Abe, to General Electric Company. Method of producing alkoxy-substituted mercaptoalkyl silanes. 3,692,812, 9-19-72, Cl. 260-448.20e.
- Berger, Abe; and Selin, Terry G., to General Electric Company. Silicone compounds containing hydrazone functional groups thereon. 3,700,711, 10-24-72, Cl. 260-448.80r.
- Berger, Abe, to General Electric Company. Polyaminoalkylthioalkyl silanes. 3,700,715, 10-24-72, Cl. 260-448.80r.
- Berger, Abe; and Selin, Terry G., to General Electric Company. Amino-functional silane compounds. 3,700,716, 10-24-72, Cl. 260-448.20n.
- Berger, Abe; and Lewis, Frederick M., to General Electric Company. Preparation of silicon hydrides. 3,704,261, 11-28-72, Cl. 260-448.0ze.
- Berger, Alan; and Schneider, Alfred L., Jr., to Ethicon, Inc., mesne. Suture package. 3,648,949, 3-14-72, Cl. 242-159.
- Berger, Alfred: See—
Deflorin, Alberto; Abel, Heinz Reinach; Berger, Alfred; Casty, Richard; and Toepfl, Rosemarie, 3,647,728.
- Berger, Alfred; Abel, Heinz; and Deflorin, Alberto, to Ciba-Geigy AG. Process for finishing wool. 3,681,128, 8-1-72, Cl. 117-141.000.
- Berger, Allen: See—
Stiener, Kurt; and Berger, Allen, 3,688,074.
- Berger, Arthur; and Borgaes, Edeltraut E., to Baxter Laboratories, Inc. Uracil thiopseudourac. 3,637,703, 1-25-72, Cl. 260-256.5.
- Berger, Arthur; and Borgaes, Edeltraut E., to Baxter Laboratories, Inc. Thiazolopyrimidines. 3,660,405, 5-2-72, Cl. 260-256.5.
- Berger Brothers Company, The: See—
Bernfeld, Isabel M., 3,651,522.
- Berger, Carl, to McDonnell Douglas Corporation. Solid-fluid battery. 3,647,542, 3-7-72, Cl. 136-6.
- Berger, Carl. Solid electrolyte device. 3,704,174, 11-28-72, Cl. 136-153.000.
- Berger, Charles V., to Universal Oil Products Company. HF Extraction and asphaltene cracking process. 3,669,876, 6-13-72, Cl. 208-87.000.
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- Berger, Dieter: See—
Genz, Heinz; Berger, Dieter; Pfeiderer, Dieter; and Seeliger, Horst, 3,639,207.
Genz, Heinz; Berger, Dieter; Seeliger, Horst; and Schmidt, Karl, 3,642,573.
Genz, Heinz; Liborius, Heinz; Pfeiderer, Dieter; Schmidt, Karl; Berger, Dieter; and Seeliger, Horst, 3,650,892.
- Berger, Edward: See—
Knell, Martin; and Berger, Edward, 3,686,281.
- Berger, Erwin: See—
Gruenig, Rudolf; Berger, Erwin; and Sieber, Charles, 3,674,200.
- Berger, Frank M.: See—
Ludwig, Bernard J.; Berger, Frank M.; and Fukui, George M., 3,699,097.
Reisner, David B.; Ludwig, Bernard J.; and Berger, Frank M., 3,681,350.
Reisner, David B.; Ludwig, Bernard J.; Bates, Harold M.; and Berger, Frank M., 3,684,805.
- Berger, Gunther: See—
Keller, Wolfgang; and Berger, Gunther, 3,658,598.
- Berger, Hans, to Zentro Albert Burkle Kommanditgesellschaft. Apparatus for the thermostatic regulation of room temperatures. 3,680,020, 7-25-72, Cl. 337-305.000.
- Berger, Harald; Bestian, Herbert; and Korbanka, Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of modified polyethylene powders. 3,644,303, 2-22-72, Cl. 260-79.3.
- Berger, Harald; Bestian, Herbert; and Korbanka, Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of ethylene copolymer dispersions. 3,689,448, 9-5-72, Cl. 260-29.6ta.
- Berger, Harold J.; and Goldsmith, Jerry G. Combination blood sampling vacuum syringe centrifuge container and specimen cup. 3,706,305, 12-19-72, Cl. 128-2.00f.
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- Berger, Herbert; Stach, Kurt; Dold, Otto; Voemel, Wolfgang; and Sauer, Winfriede, to Boehringer Mannheim G.m.b.H. 5-Nitrofurans derivatives. 3,658,796, 4-25-72, Cl. 260-240.
- Berger, Herbert; Gall, Rudi; Merdes, Hartmut; Stach, Kurt; Voemel, Wolfgang; and Sauer, Winfriede, to Boehringer Mannheim G.m.b.H. 4-(5-Nitrofuryl) pyrimidines. 3,704,301, 11-28-72, Cl. 260-251.00r.
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- Berger, Horst H.; and Wiedmann, Siegfried K., to International Business Machines Corporation. Monolithic semiconductor memory. 3,643,235, 2-15-72, Cl. 340-173.
- Berger, James E. Fluid proportioner means. 3,677,296, 7-18-72, Cl. 137-606.000.
- Berger, James K.; and Wilkinson, Bruce L., to Pioneer Magnetics, Inc. Power supply dual output. 3,660,672, 5-2-72, Cl. 307-17.
- Berger, James K., to Pioneer Magnetics, Inc. Pulse generating transformer circuit. 3,660,685, 5-2-72, Cl. 307-260.
- Berger, James K., to Pioneer Magnetics, Inc. Power supply protective control. 3,660,724, 5-2-72, Cl. 317-16.
- Berger, James K., to Pioneer Magnetics, Inc. Regulated DC-DC power supply. 3,697,854, 10-10-72, Cl. 321-2.000.
- Berger, John G., to General Electric Company. Riveting device. 3,670,943, 6-20-72, Cl. 227-60.000.
- Berger, Julius: See—
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Weisglass, Louis L.; and Flieder, Robert A., 3,684,371.
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Cramer, Mert, 3,684,919.
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Glickman, Richard B.; and Hartz, George R., 3,697,031.
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Dumbauld, Richard, 3,682,411.
Foote, Danny R., 3,634,023.
Johnson, Paul C., 3,693,905.
Lillard, Larry L.; and Rumbaugh, James T., 3,693,901.
Rumbaugh, James T., 3,653,141.
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- Berkowitz, Irving L., to Kason Hardware Corporation. Refrigerator wall panels with panel fasteners and apparatus for making said panels. 3,671,006, 6-20-72, Cl. 249-97.000.
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- Berky, Richard K.; and Rickel, Edgar J., to Richel, Inc. Hydraulic dump box. 3,633,971, 1-11-72, Cl. 298-10.
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Ravich, Leonard E.; Berman, Elliot; and Ekman, Carl F. W., 3,700,447.
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- Berman, Irwin, to Foster Wheeler Corporation. Multi-layer pressure vessel. 3,647,103, 3-7-72, Cl. 220-3.
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- Bermel, Thomas W., to Corning Glass Works. Vortex generating sensor. 3,641,809, 2-15-72, Cl. 73-37.5.
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- Bernaes, Benjamin C., to Westinghouse Electric Corporation. Rotor blade structure. 3,702,222, 11-7-72, Cl. 416-212.000.
- Bernard, Arthur A.; and Bernard, Richard A., to Dover Corporation, mesne. Arc welding gun. 3,676,640, 7-11-72, Cl. 219-130.000.
- Bernard, Claude. Device for portioning and titrating liquid samples. 3,652,228, 3-28-72, Cl. 23-253.
- Bernard, David L.; Backus, John K.; and Darr, William C., to Mobay Chemical Company. Flame-resistant, non-bursting polyisocyanurate foams. 3,644,232, 2-22-72, Cl. 260-2.5.
- Bernard, David L.; and Doheny, Anthony J., Jr., to Baychem Corporation, mesne. Polycarbodiimide-polyisocyanurate foam. 3,657,161, 4-18-72, Cl. 260-2.5.
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- Bernard, Henri Gabriel. Electric connector device. 3,701,087, 10-24-72, Cl. 339-198.00g.
- Bernard, James A., to General Motors Corporation. Retaining devices. 3,662,642, 5-16-72, Cl. 85-8.800.
- Bernard, Jean Andre; and Faraoni, Adamo Renato, to European Atomic Energy Community (Euratom). Method of producing a sealing-tight joint between two tubes on different materials. 3,691,614, 9-19-72, Cl. 29-470.500.
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- Bernard, Pig. Plate carrying a plurality of inscriptions. 3,673,718, 7-4-72, Cl. 40-5.000.
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Bernard, Arthur A.; and Bernard, Richard A., 3,676,640.
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- Bernardi, Luigi; Coda, Severina; Suchowsky, Giselbert Karl; and Pegrassi, Lorenzo, to Societa' Farmaceutici Italia. 1,3-Benzoxazine derivatives. 3,658,803, 4-25-72, Cl. 260-244.
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- Bernardin, Leo J., to Kimberly-Clark Corporation. Absorbent fibers of phosphorylated cellulose with ion exchange properties. 3,691,154, 9-12-72, Cl. 260-219.000.
- Bernardin, Rodney A., to United States of America, Navy. Dual mode fuze explosive train. 3,633,510, 1-11-72, Cl. 102-74.
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Weisfeld, Joseph; Tringali, Alfred M.; Ackerman, Joseph F.; and Bernardo, Joseph J., 3,650,997.
- Bernas, Richard J.; and Kaczynski, Clarence J., to Dow Chemical Company. The Ball valve with positive locking mechanism. 3,679,170, 7-25-72, Cl. 251-104.000.
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Longi, Paolo; Greco, Francesco; and Bernasconi, Ermanno, 3,644,306.
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- Bernath, Louis; and Facha, Joseph V., to North American Rockwell Corporation. Articulated fuel element housing. 3,671,394, 6-20-72, Cl. 176-79.000.
- Bernatschek, Adolf Oswald. Braking shuttle box. 3,696,844, 10-10-72, Cl. 139-186.000.
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- Berndt, Claus. Rivet head arrangement for a wobble riveting machine. 3,675,461, 7-11-72, Cl. 72-406.000.
- Berndt, Edward W.: See—
Baron, Robert R.; Berndt, Edward W.; Van Essen, Harold E.; and Brunsting, Edwin L., 3,636,216.
- Berndt, Hans; and Kreuzer, Hubert, to Neuweg Fertigungs GmbH. Hydraulic remote control device. 3,668,871, 6-13-72, Cl. 60-54.500.
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Eder, Ulrich; Berndt, Hans-Detlef; Kerb, Ulrich; Wiechert, Rudolf; Zollner, Georg; Buchschacher, Paul; Furlenmeier, Andre; Furst, Andor; and Muller, Marcel, 3,661,897.
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Unger, Hans Peter Olof; Westberg, Johan E. H.; Berndtsson, Gunnar Ingemar; and Schwartz, Stephan Lars, 3,679,128.
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Schobinger, Ulrich; Christoffel, Cla; and Berner, Kurt, 3,637,407.
- Schobinger, Ulrich; Christoffel, Cla; and Berner, Kurt, 3,642,774.
- Berner, Roland A.: See—
Lorenz, Walter F.; and Berner, Roland A., 3,666,664.
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- Bernett, Frank E.; and Kleinhans, Robert J., to Tile Council of America, Inc. Grouting composition. 3,706,696, 12-19-72, Cl. 260-29.70e.
- Bernetti, Raffaele; and Holty, David W., to CPC International Inc. 2,5-Oxazolidinedione derivatives of S-oxidized sulfur-containing amino acids. 3,644,390, 2-22-72, Cl. 260-307.
- Bernewasser, Horst; to Kochs Adler AG. Apparatus for trimming and clipping the edges of textile fabric cuts. 3,696,765, 10-10-72, Cl. 112-121.120.
- Berney, Bernard C.: See—
Olton, Robert N.; and Berney, Bernard C., 3,705,838.
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- Berngomatic Corporation: See—
Loeke, Joseph K., 3,663,154.
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Dull, Helmut, 3,697,816.
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Abreu, Christian O.; Bernhard, John S.; and Chiavaroli, Henry T., 3,654,654.
- Bernhardt Apparatebau GmbH & Co.: See—

- Bernhardt, Jost; and Bohle, Friedrich, 3,685,069.
 Bernhardt, Bruno: See—
 Buchsteiner, Hans; Bernhardt, Bruno; and Kowalski, Hubert, 3,656,362.
 Bernhardt, Bruno Friedrich: See—
 Engelhardt, Walter; and Bernhardt, Bruno Friedrich, 3,676,980.
 Bernhardt, Daniel W.: See—
 Jones, Lewis E.; and Bernhardt, Daniel W., 3,699,278.
 Bernhardt, Gunther: See—
 Buning, Robert; Bernhardt, Gunther; Bierwirth, Egon; and Trautvetter, Werner, 3,647,402.
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 Bernhart, Finn W., to American Home Products Corporation. Humanized fat compositions and infant formulas thereof. 3,649,295, 3-14-72, Cl. 99-57.
 Bernheim, Erwin: See—
 Vosseler, Gerhard, 3,668,442.
 Bernheimer, Ralph, to Esso Research and Engineering Company. Purification of a hydrocarbon stream with Cr⁺⁺⁺ ions in solution. 3,666,660, 5-30-72, Cl. 208-243.
 Bernhoft, Gerald W.: See—
 Matthews, Ralph W.; Bernhoft, Gerald W.; and Schmidt, Michael R., 3,633,700.
 Matthews, Ralph W.; Bernhoft, Gerald W.; and Schmidt, Michael R., 3,670,823.
 Bernhold, Edward B., to Bell & Howell Company. Automatic speed control for movie projector. 3,700,315, 10-24-72, Cl. 352-17,000.
 Bernholz, Edward L.: See—
 Hemming, Charles B.; and Bernholz, Edward L., 3,703,394.
 Berni, Ralph J.: See—
 Gonzales, Elwood J.; Berni, Ralph J.; and Benerito, Ruth R., 3,645,667.
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 Bernier, Robert N.: See—
 Blackmer, Dwight W.; and Bernier, Robert N., 3,680,809.
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 Bernot, Robert: See—
 Frisque, Alvin J.; and Bernot, Robert, 3,644,305.
 Berns Air King Corporation: See—
 Swimmer, James A.; and Harris, Martin, 3,637,194.
 Swimmer, James A., 3,637,981.
 Berns, Charles, to Edwards Company, Inc. D.C. vibrating horn. 3,656,156, 4-11-72, Cl. 340-388.
 Berns, Charles, to Edwards Company, Inc. Alarm latching circuit. 3,706,087, 12-12-72, Cl. 340-213,000.
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 Bernstein, Arthur. Ice bank heat exchanger. 3,672,183, 6-27-72, Cl. 62-139,000.
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 Bernstein, Bruce S.: See—
 Hyman, Seymour; Bernstein, Bruce S.; and Kapoor, Ramesh, 3,705,938.
 Bernstein, Carl: See—
 Longley, Kermit D.; and Bernstein, Carl, 3,682,845.
 Bernstein, Carl, to Witco Chemical Corporation. Method of preparing solid polyurethane elastomers. 3,645,975, 2-29-72, Cl. 260-75.
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 Bernstein, George J.: See—
 Crouthamel, Carl E.; Coleman, Lester F.; Bernstein, George J.; and Henault, Peter B., 3,663,363.
 Miller, William E.; Knighton, James B.; and Bernstein, George J., 3,663,178.
 Bernstein, Herbert L.: See—
 Carlson, Carl O.; Bernstein, Herbert L.; and Franco, Albert J., 3,656,175.
 Bernstein, Jack: See—
 Narayanan, Venkatachala Lakshmi; and Bernstein, Jack, 3,646,066.
 Narayanan, Venkatachala Lakshmi; and Bernstein, Jack, 3,646,067.
 Weisenborn, Frank Lee; Dolfini, Joseph Edward; Bach, Georges Gustav; and Bernstein, Jack, 3,682,981.
 Wieslogle, Frederick Y.; and Bernstein, Jack, 3,647,781.
 Yale, Harry L.; and Bernstein, Jack, 3,657,275.
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 Bernstein, Seymour: See—
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 Hansen, David O.; Altshuler, Saul; Bernstein, William; and Hamermesh, Bernard, 3,679,897.
 Bernt, Erich: See—
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 Bernutat, Paul. Air separator. 3,682,302, 8-8-72, Cl. 209-139,000.
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 Kampmier, Thomas R., 3,675,886.
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 Berrange, Aubrey Ralph, to South African Inventions Development Corporation. Impact compaction of loose materials. 3,662,658, 5-16-72, Cl. 94-48.
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- Berrer, Dagmar; and Fankhauser, Ernst, to Geigy, J. R., A.G. Process for controlling weeds in wheat fields. 3,634,062, 1-11-72, Cl. 71-93.
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 Berrie, Robert W., to Omnico Systems International Inc. Prefabricated building construction with interfitted stud splines. 3,641,720, 2-15-72, Cl. 52-122.
 Berriman, Lester P., to Dresser Industries, Inc., mesne. Fluid separation apparatus and method. 3,669,879, 6-13-72, Cl. 210-23,000.
 Berrs, Raymond M., to Great Lakes Carbon Corporation. Filament break detector utilizing photoelectric means for detecting speed of supply spool. 3,633,835, 1-11-72, Cl. 242-36.
 Berry, Alvin F., to General Electric Company. Aromatic superpolyester-styrene polymer melt stabilized composition. 3,647,921, 3-7-72, Cl. 260-873.
 Berry, Clyde A., to Pilot Research Corporation. Panty hose. 3,696,444, 10-10-72, Cl. 2-224,000.
 Berry, Currie B., to Ethyl Corporation. Method of making a composite metal article. 3,703,763, 11-28-72, Cl. 29-503,000.
 Berry, Currie B., Jr., to Ethyl Corporation. Foamed metal. 3,669,654, 6-13-72, Cl. 75-20,00f.
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 Bunk, Albert R.; Bennett, Bailey; Berry, David A.; Parkin, Bernard A., Jr.; Schuller, Walter H.; and Lawrence, Ray V., 3,652,467.
 Bunk, Albert R.; Bennett, Bailey; Berry, David A.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., 3,681,268.
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 Sinclair, Richard G.; Berry, David A.; Schuller, Walter H.; and Lawrence, Ray V., 3,663,545.
 Berry, David A.; and Gynn, Gilbert M., to Dart Industries Inc. Dialyl carbonate filled compositions. 3,644,242, 2-22-72, Cl. 260-17,4.
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 Berry, David A.; and Gynn, Gilbert M., to Dart Industries, Inc. Trisubstituted isocyanurates. 3,658,801, 4-25-72, Cl. 260-248.
 Berry, David A.; and Gynn, Gilbert M., to Dart Industries Inc. Allyl carbonate and substituted allyl carbonate esters of 1,4-dimethylol cyclohexane, and polymers thereof. 3,679,727, 7-25-72, Cl. 260-463.
 Berry, David A.; and Gynn, Gilbert M., to Dart Industries, Inc. Filled compositions containing 3,9-divinyl spirobi. 3,700,613, 10-24-72, Cl. 260-17,4cl.
 Berry, Edward J.: See—
 Lutzen, William C.; and Berry, Edward J., 3,640,104.
 Berry, Foster W., to Brunswick Corporation. Bowling pin with cheek elements formed of wood particles and resin binder. 3,704,016, 11-28-72, Cl. 273-82,00r.
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 Berry, Fred M., to Kustom Signal, Inc. Method and apparatus for digitally determining the speed of a moving object. 3,689,921, 9-5-72, Cl. 343-8,000.
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 Berry, Jack; and Luo, Zong-Shyong, to Burroughs Corporation. Screw engaging device. 3,654,816, 4-11-72, Cl. 74-424,8.
 Berry, Jack; and Templeton, William B., to Burroughs Corporation. Printer control system. 3,659,524, 5-2-72, Cl. 101-93.
 Berry, James I., to Ford Motor Company. Vehicle speed synthesizer. 3,664,711, 5-23-72, Cl. 303-21,0be.
 Berry, James I.; and Janiz, Zbigniew J., to Ford Motor Company. Electronic circuit for detecting and evaluating angular acceleration and deceleration of a rotary member. 3,668,524, 6-6-72, Cl. 324-162.
 Berry, James I., to Ford Motor Company. Electronic sensor for developing a voltage signal proportional in magnitude to displacement. 3,698,250, 10-17-72, Cl. 73-517,000.
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 Berry, James W.: See—
 Ashby, Carl T.; Berry, James W.; and Deutschman, Archie J., Jr., 3,701,648.
 Berry Metal Company: See—
 Herff, Louis M., 3,701,518.
 Berry, Norman H. Ignition circuit radiation suppression resistor. 3,680,029, 7-25-72, Cl. 338-334,000.
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 Berry, Peter John, to Barr and Stroud, Limited. Stabilised optical systems. 3,698,790, 10-17-72, Cl. 350-16,000.
 Berry, Robert E.; Bissett, Owen W.; Wagner, Charles J., Jr.; and Patterson, Eldridge P., to United States of America, Agriculture. Method of densifying food products. 3,672,909, 6-27-72, Cl. 99-1,000.
 Berry, Ronald G. Hair cutting apparatus. 3,678,944, 7-25-72, Cl. 132-45,00r.
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 Delahunt, R. E., 3,687,340.
 Berry, Thomas E., to Shell Oil Company. Zinc-containing zeolite catalyst. 3,654,185, 4-4-72, Cl. 252-455.
 Berry, Thomas F.: See—
 Hoppin, George S.; Yount, Reed E.; Berry, Thomas F.; and Barker, James F., 3,632,319.
 Hoppin, George S., III; Yount, Reed E.; Berry, Thomas F.; and Barker, James F., 3,692,501.
 Hoppin, George S., III; Yount, Reed E.; Berry, Thomas F.; and Barker, James F., 3,700,427.
 Tarshis, Lemuel A.; Walker, James L.; and Berry, Thomas F., 3,696,500.
 Berry, Thomas G., to Fairchild Hiller Corporation. Collapsible, extendible double tubular structure. 3,696,568, 10-10-72, Cl. 52-108,000.
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 Berry, William A., to Addmaster Corporation. Readout apparatus. 3,666,927, 5-30-72, Cl. 235-61,0pc.
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 Berry, Willis E.: See—
 Lagerstrom, Robert C.; and Berry, Willis E., 3,683,448.
 Berry, Willis E., to National Union Electric Corporation. Shag rug cleaning nozzle apparatus. 3,676,894, 7-18-72, Cl. 15-362,000.
 Berryman, William O., to Schlumberger Technology Corporation. Mechanical jar. 3,658,140, 4-25-72, Cl. 175-304.
 Bersano, Piero, to Norton Company. Pulp grinding machine having a tapered control roll. 3,638,868, 2-1-72, Cl. 241-44.
 Bersin, Richard L., to International Plasma Corporation. Method and apparatus for reacting ionized gas with a non-gaseous substance. 3,647,676, 3-7-72, Cl. 204-312.
 Bersin, Richard L., to International Plasma Corporation. Method and apparatus for ashing organic substance. 3,671,195, 6-20-72, Cl. 23-230,0pc.
 Berson, Bertrand E.: See—
 Kuno, Hiromu J.; Berson, Bertrand E.; and Reynolds, James F., 3,668,552.
 Berstorff, Hermann, Maschinenbau GmbH: See—
 Anders, Dietmar, 3,696,913.
 Hoefer, Heinz; and Orth, Herbert, 3,670,644.
 Oehlmann, Erich; and Orth, Herbert, 3,653,320.
 Schutter, Dieter, 3,653,419.
 Berstorff, Herrmann Maschinenbau GmbH: See—
 Anders, Dietmar, 3,685,751.

- Bert, Stephen F., to Textron, Inc. End attachment for watch bands. 3,678,544, 7-25-72, Cl. 24-265.00b.
- Berteau Corporation: See—
Byford, Frank, 3,685,531.
Stevens, Curtis E.; and Phillips, Chandler A., 3,701,136.
Stevens, Curtis Edgar, 3,671,082.
York, Ray A., 3,698,264.
- Berteau, Charles Donald. Computer system for improved data transmission. 3,636,520, 1-18-72, Cl. 340-172.5.
- Bertele, Erhard; and Schudel, Peter, to Givaudan Corporation. Process for preparation of terpene flavorants. 3,699,169, 10-17-72, Cl. 260-604.00r.
- Bertele, Ludwig, to Wild Heerbrugg AG, Firma. Galilean-type telescope system. 3,663,094, 5-16-72, Cl. 350-212.000.
- Bertele, Ludwig, 1/2 to Wild Heerbrugg AG, Firma. Objective consisting of five lens members. 3,698,796, 10-17-72, Cl. 350-216.000.
- Bertele, Ludwig, to Wild Heerbrugg AG, Firma. Wide-angle objective. 3,700,312, 10-24-72, Cl. 350-215.000.
- Bertelsen, Henry Filso. Table with extensions. 3,636,891, 1-25-72, Cl. 108-66.
- Bertelsen, Henry Filso. Table extension. 3,703,871, 11-28-72, Cl. 108-66.000.
- Bertelson, Richard E.; and Mezitt, Robert W. Apparatus for creasing and tapering used metal containers. 3,693,396, 9-26-72, Cl. 72-325.000.
- Bertheas, Jean, to Thomson-CSF. Systems for processing frequency modulated signals. 3,639,695, 2-1-72, Cl. 179-15.55.
- Bertheau, Hermann, to U.S. Philips Corporation. X-ray apparatus for screening and radiographs in two directions. 3,659,099, 4-25-72, Cl. 250-50.
- Berthelat, Robert J., to Societe Anonyme dite: Etablissements Jacques Berthelat & Fils. Roller conveyor. 3,669,242, 6-13-72, Cl. 198-127.00r.
- Berthelemy, Jacques: See—
Sauvan, Jacques Louis; and Berthelemy, Jacques, 3,688,278.
- Berther, Clau: See—
Schaaf, Siegfried; and Berther, Clau, 3,637,608.
- Berthier, Guy: See—
Commercon, Jean Claude; and Berthier, Guy, 3,679,968.
- Berthier, J., Laboratories S.A.: See—
Dardas, Anastasios, 3,687,953.
- Berthmann, Adolf; Lingens, Paul; and Morhenn, Ernst, to Dynamit Nobel Aktiengesellschaft. Method for increasing the safety against firedamp ignitions during blasting in underground mining and blasting elements used for said purpose. 3,648,614, 3-14-72, Cl. 102-23.
- Berthold, H., Messinglinienfabrik und Schriftgiesserei AG: See—
Linde, Hans; and Thienel, Peter, 3,640,193.
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Guldenpfennig, Hans, 3,695,155.
- Berthold, Heinz; Kamm, Kurt; and Forster, Wolfgang, to Pohl-Heckel-Bleichert Vereinigte Maschinenfabriken A.G. Shed service scraper. 3,653,487, 4-4-72, Cl. 198-36.
- Berthold, John W., III, to Bell Telephone Laboratories, Incorporated. Interference filter with alternately designed pairs of dielectric layers. 3,637,294, 1-25-72, Cl. 350-166.
- Berthold, Robert V.; and Roberts, Rene M. J., to Union Carbide Corporation. Hexakis (dihaloalkoxymethyl)-malamines (TBAT). 3,707,545, 12-26-72, Cl. 260-249.600.
- Berthold, Walter: See—
Spiller, Richard; Moser, Gottfried; and Berthold, Walter, 3,690,395.
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Bechet, Louis; and Bertholon, Claude, 3,648,148.
- Berthou, Jean; and Gac, Robert, to Progil. Process of manufacturing para-phenyl-phenols. 3,637,870, 1-25-72, Cl. 260-620.
- Berthou, Jean; and Ginot, Bernard, to Progil. Terephthalic acid purification process. 3,646,125, 2-29-72, Cl. 260-525.
- Berti, Giancarlo, to Finanz und Kompensations Anstalt Vaduz (Liechtenstein). 2-Hydroxy-1,4-naphthoquinone aminobenzoates. 3,639,432, 2-1-72, Cl. 260-396.
- Bertin & Cie: See—
Bertin, Jean Henri, 3,640,486.
Bertin, Jean Henri, 3,643,600.
Bertin, Jean Henri; Le Nabour, Marcel Pierre; and Giraud, Francois Louis, 3,648,620.
Bertin, Jean Henri, 3,662,854.
Bertin, Jean Henri, 3,688,724.
Croix-Marie, Francis Marie Jean; and Grignon, Robert Georges, 3,647,018.
Croix-Marie, Francis Marie Jean, 3,698,506.
Mourlon, Jean-Claude; and Dubois, Ernest Marie Rene, 3,635,342.
Thomas-Collignon, Jean Charles Marie, 3,706,476.
- Bertin & Cie Boite Postale: See—
Bertin, Jean Henri, 3,685,612.
- Bertin & Cie Plaisir: See—
Marchal, Philippe Albert Hippolyte; Simonnet, Jacques Louis Paul; and Verrien, Jean Prudent Fernand Rene, 3,653,225.
- Bertin, Daniel; and Girault, Pierre, to Roussel-UCLAF. 3-Amino-4,4-dihalo-5-pyrazolones. 3,646,058, 2-29-72, Cl. 260-310.
- Bertin, Daniel; Perronnet, Jacques; and Teche, Andre, to Roussel-UCLAF. 3-(2'-Tetrahydropyranyl)-1,2,3,4,6,7-hexahydro-5H-cyclopentapyrimidine-2,4-dione. 3,658,819, 4-25-72, Cl. 260-260.
- Bertin, Daniel; and Perronnet, Jacques, to Roussel-UCLAF. Alkoxyalkylamino-s-triazine herbicides. 3,679,393, 7-25-72, Cl. 71-93.000.
- Bertin, Ira L.: See—
Bertin, Mannie; and Bertin, Ira L., 3,654,851.
- Bertin, Jean Henri, to Bertin & Cie. Flying wing having ground-effect take-off and landing. 3,640,486, 2-8-72, Cl. 244-12.
- Bertin, Jean Henri, to Bertin & Cie. Ground-effect transportation system. 3,643,600, 2-22-72, Cl. 104-23.
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- Bertin, Jean Henri, to Bertin & Cie. High-speed ground effect vehicles. 3,662,854, 5-16-72, Cl. 180-121.000.
- Bertin, Jean Henri, to Societe d'Etudes et de Developpement des Aeroglisateurs Marins terrestres et Amphibies S.E.D.A.M. Pressure fluid confining facility for ground-effect machine. 3,677,361, 7-18-72, Cl. 180-127.000.
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- Bertin, Jean Henri, to Bertin & Cie. Ground-effect machines. 3,688,724, 9-5-72, Cl. 114-67.00a.
- Bertin, Jean-Claude Andre. Device for adjusting the slope of a chair back. 3,633,964, 1-11-72, Cl. 297-371.
- Bertin, Mannie; and Bertin, Ira L. Diffusers for conditioned air conduits. 3,654,851, 4-11-72, Cl. 98-110.
- Bertin, Marcel R.: See—
Boulin, Jacques R.; Bertin, Marcel R.; and Nepomiaschty, Alexis, 3,636,481.
- Bertinetti, Emilio Alberto; and Lampredi, Aurelio, to Fiat Societa per Azioni and Cigala & Bertinetti S.a.S. Gears for toothed belt drives, particularly for motors for automotive vehicles, made of synthetic material. 3,651,705, 3-28-72, Cl. 74-243.
- Bertioli, Michael Murray: See—
Williams, Malcolm; Hodgson, Duncan Barry; and Bertioli, Michael Murray, 3,689,753.
- Bertini, Natale: See—
Calcagno, Benedetto; Ghirga, Marcello; and Bertini, Natale, 3,691,098.
- Bertoglio, Guido, to S.A. Albe. Machine for the high speed, extremely precise mass working of pieces having small dimensions and complex forms, in particular of metallic small articles. 3,689,965, 9-12-72, Cl. 29-38.00c.
- Bertoglio, Guido D., to Centra Anstalt. Machine for dosing and filling thick liquids into bags of plastic material. 3,643,399, 2-22-72, Cl. 53-187.
- Bertola, Peter H., to General Conveyor, Inc. Mechanism for lifting and conveying material. 3,667,618, 6-6-72, Cl. 212-128.000.
- Bertolacini, Ralph J.: See—
Gutberlet, Louis C.; and Bertolacini, Ralph J., 3,677,972.
- Bertolacini, Ralph J.; and Gutberlet, Louis C., to Standard Oil Company. Hydrocracking process and catalyst. 3,649,523, 3-14-72, Cl. 208-111.
- Bertolacini, Ralph J.; and Gutberlet, Louis C., to Standard Oil Company. Uranium-containing and aluminosilicate-containing hydrocarbon conversion catalyst and process. 3,650,945, 3-21-72, Cl. 208-111.
- Bertolacini, Ralph J., to Standard Oil Company (Indiana). Reforming with a platinum mordenite-alumina catalyst. 3,679,575, 7-25-72, Cl. 208-65.000.
- Bertolacini, Ralph J.; and Petersen, Richard D., to Standard Oil Company. Naphtha hydroforming process. 3,707,460, 12-26-72, Cl. 208-65.000.
- Bertoldi, Gerhard: See—
Remmers, Karl; Bertoldi, Gerhard; Leitner, Karl; and Eigner, Erich, 3,648,994.
- Bertolet, Doris Y. Floor preserving shoe for platform rockers and the like. 3,669,490, 6-13-72, Cl. 297-272.000.
- Bertolet, Doris Y. Prolonged bed care frame. 3,671,983, 6-27-72, Cl. 5-82.000.
- Bertolet, John C. Answer and scoring sheet. 3,693,267, 9-26-72, Cl. 35-41.00a.
- Bertolini, Gianni; and Vinsani, Mario, to Olivetti-General Electric S.p.A. Monostable multivibrator. 3,696,254, 10-3-72, Cl. 307-273.000.
- Bertolini, Natale: See—
Ghirga, Marcello; Bertolini, Natale; and Di Fiore, Lucio, 3,683,043.
- Bertolino, August U.: See—
Neudorfer, David H.; Crookston, Ronald W.; and Bertolino, August U., 3,662,128.
- Bertozi, Eugene R., to Thiokol Chemical Corporation. Cement/polythiol polymer sealants. 3,635,873, 1-18-72, Cl. 260-33.8.
- Bertozi, Eugene R., to Thiokol Chemical Corporation. Fast curing of polysulfide polymers. 3,637,612, 1-25-72, Cl. 260-79.

- Bertozi, Eugene R., to Thiokol Chemical Corporation. Method of making hydroxyl-terminated polysulfide polymers. 3,647,766, 3-7-72, Cl. 260-79.
- Bertram, Bernd: See—
Specht, Wolfgang; and Bertram, Bernd, 3,635,160.
- Bertram, Charles C.: See—
Gunning, William F.; Wilson, John F.; and Bertram, Charles C., 3,654,603.
- Bertram, Claus: See—
Wilke, Heinz; and Bertram, Claus, 3,664,012.
- Bertram, James L., to Dow Chemical Company. The Glycidyl ethers of haloneopentyl glycols. 3,686,358, 8-22-72, Cl. 260-830.0tw.
- Bertram, James L.; and Bowen, David O., to Dow Chemical Company. The Glycidyl ethers of glycerine-containing polyhydroxyl compounds. 3,705,115, 12-5-72, Cl. 260-2.0ep.
- Bertram, Leroy W., to Unarco Industries, Inc. Pneumatic safety system for vehicle lading. 3,673,968, 7-4-72, Cl. 105-369.0ba.
- Bertram, Sidney, to Bunker-Ramo Corporation, The, mesne. Light modulating device controlled by a divertable fluid stream. 3,704,058, 11-28-72, Cl. 350-160.000.
- Bertram, Sidney, to Bunker-Ramo Corporation, The, mesne. Switchable light modulating device. 3,704,059, 11-28-72, Cl. 350-160.000.
- Bertrand, Claude: See—
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- Bertrand, Guy; and Maison, Jean Marc, to Rhone-Poulenc S.A. N-Nitroso-4,4'-bis-bis(2-phenylisopropyl)-diphenylamine. 3,668,253, 6-6-72, Cl. 260-570.00r.
- Bertrand, Jack: See—
Kalopissis, Gregoire; Bertrand, Jack; and Bugaut, Andree, 3,692,461.
- Bertrand, Pierre Claude, to Compagnie des Compteurs. Pressure measuring devices of the electrical counterbalancing force balance type. 3,656,348, 4-18-72, Cl. 73-398.
- Bertrand, Pierre Claude, to Compagnie des Compteurs. Device for adjusting the measurement range of captors fitted with force balances particularly for pressure conveyors. 3,660,745, 5-2-72, Cl. 318-676.
- Bertrand, Richard R.: See—
Weyrich, Arthur G.; Bertrand, Richard R.; and Karinski, Edwin D., 3,691,425.
- Bertrand, William F.: See—
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- Bertrem, Bradley E., to Dover Corporation. Butterfly valve. 3,656,712, 4-18-72, Cl. 251-306.
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- Berwanger, John J., to Hood Sponge Rubber Company. Pipe wrap. 3,654,061, 4-4-72, Cl. 161-118.
- Berwin, Ted W.; and Rado, John A., to Hughes Aircraft Company. Analog shift register. 3,643,106, 2-15-72, Cl. 307-221.
- Berwin, Zoited W., to Hughes Aircraft Company. Resonant sweep generator. 3,699,356, 10-17-72, Cl. 307-228.000.
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- Beschke, Helmut; Pfleger, Hans; Ferch, Horst; and Wisenmenger, Edith, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of finely divided organically modified silicas. 3,656,981, 4-18-72, Cl. 106-288.
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- Besemer, Karl Friedrich: See—
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- Beshgetoor, Ray V., to Be-Mo Machine Co. Spreading device. 3,666,184, 5-30-72, Cl. 239-512.000.
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- Besier, Emil E., to Motorola, Inc. Automatic beam blanking circuit for an electronic video player. 3,663,750, 5-16-72, Cl. 178-7.200.
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- Besnard, Marcel, to Societe Anonyme pour l'Equippement Electrique des Vehicules S.E.V. Marchal. Means for attaching the arm of a windshield wiper to the blade support thereof. 3,659,309, 5-2-72, Cl. 15-250.32.
- Besoyan, Kirk, to Safety Vee Brake, Inc. Manual control for auxiliary brake device. 3,638,766, 2-1-72, Cl. 188-106.
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- Bessemer Securities Corporation, mesne: See—
Ammann, Stephen K., 3,651,258.
- Besser Company: See—
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Springs, Thomas W., 3,679,340.
Woelk, Robert J., 3,660,004.
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Werts, Arthur P.; and Besser, John E., 3,696,050.
- Besser, Leslie, to Hewlett-Packard Company. High frequency amplifier. 3,649,925, 3-14-72, Cl. 330-13.
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- Bessett, Clifford H.: See—
Boyd, James W.; and Bessett, Clifford H., 3,645,436.
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- Bessman, Samuel P. Automatic digestion and dry ashing apparatus. 3,684,452, 8-15-72, Cl. 23-253.00r.
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- Besson, Rene, to Ebauches S.A. Calendar electric timepiece. 3,664,119, 5-23-72, Cl. 58-58.000.
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- Best, Eric, to Hyster Company, mesne. Means for controlling pallet truck foot pedal position. 3,701,211, 10-31-72, Cl. 280-43.120.

- Best Lock Corporation: *See*—
Cady, James C.; and Foshee, William R., 3,652,114.
- Best, Peter; and Schweigl, Othmar Friedrich, to Lever Brothers Company. Detergent composition. 3,684,723, 8-15-72, Cl. 252-132,000.
- Best, Roger J.; and Sears, Richard G., to General Electric Company. Filter holder. 3,658,183, 4-25-72, Cl. 210-446.
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- Beswick, Geoffrey Ernest, to Imperial Chemical Industries Limited. Dicarboxylic acid salts of trans, trans 4,4'-diaminodicyclohexylmethane. 3,661,982, 5-9-72, Cl. 260-501,2.
- Beta Instrument Company Limited: *See*—
Kyriakis, John; and Tole, Walter Roland, 3,697,335.
- Betatronic, Inc.: *See*—
Yanosik, Joseph J., 3,636,428.
- Betcher, Alexandr Samuilovich: *See*—
Tatianko, Nikolai Vasilievich; Tsymbal, Alexandr Gavrilovich; Stetsenko, Vladimir Vasilievich; Isikov, Sergei Alexandrovich; Rodenko, Fedor Leontievich; Betcher, Alexandr Samuilovich; Shamrai, Petr Dmitrievich; Dulya, Mikhail Afanasievich; Dudka, Viktor Valievich; Klimchuk, Ivan Petrovich; and Dolgov, Anatoly Mikhailovich, 3,664,431.
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- Bethea, Malcolm, Jr. Load determination hanger for transmission line tower. 3,684,222, 8-15-72, Cl. 248-64,000.
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Riemhofer, Franz; Dittmann, Walter; Bethian, Uwe; and Schutze, Ernst-Christian, 3,668,277.
- Bethke, Lyman W.: *See*—
Berman, Richard M.; Schwartz, Bernard; and Bethke, Lyman W., 3,636,549.
- Bethlehem Steel Corporation: *See*—
Baker, Stephen R.; and Kremer, Harry D., 3,631,914.
- Bast, Bernard J., 3,668,031.
- Booth, Robert C., 3,675,118.
- Bradley, Thomas E.; and Spadt, Walter, Jr., 3,682,551.
- Charchalis, Taras I., 3,670,884.
- Chu, Vincent H.K., 3,635,694.
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- Copenhaver, John D., 3,707,085.
- Cressman, Russell N.; and Bantz, Walter J., 3,631,714.
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- Daws, Thomas W.; and Lehman, Albert L., 3,688,831.
- Diegelman, Frederick Henry, 3,685,736.
- Durkee, Jackson L.; Beighley, Arthur F.; and Dunlap, Donald E., 3,659,633.
- Ebert, Robert J.; and Paxton, William H., 3,692,254.
- Estes, John C., 3,699,688.
- Fegan, Lloyd V., Jr.; and Sloughfy, James L., 3,684,478.
- Flinchbaugh, Dean A., 3,654,551.
- Galloway, James M., 3,653,171.
- Gault, Robert H., 3,640,342.
- Gault, Robert H.; and Joy, Robert F., 3,662,829.
- Heffernan, John J., 3,656,446.
- Hiller, Carl Duane; and Karge, Harold W., 3,691,751.
- Hlinka, Joseph W., 3,642,060.
- Hobbs, Marcus E.; and Bonnet, Carroll W., 3,667,699.
- Hoffman, John P.; and Booth, Robert C., 3,673,493.
- Horton, James B.; and Townsend, Herbert E., Jr., 3,637,341.
- Humphries, Darrel V., 3,639,201.
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- Humphries, Darrel V., 3,681,911.
- Humphries, Darrel V., 3,687,798.
- Lehman, Albert L., 3,639,117.
- Leonard, Regis J.; and Ulmer, Gene C., 3,664,853.
- Lester, Raymond H.; and Snyder, James N., 3,641,795.
- Maxwell, Herries M.; Sowers, John E.; and Laidman, John Neil, 3,639,142.
- Mayer, Edward H.; and Oliver, Evan M., 3,677,834.
- Melloy, George F.; and Dennison, Joseph D., 3,645,801.
- Miller, Francis G., 3,696,923.
- Moskowitz, Isadore; and Lemon, George F., Jr., 3,661,116.
- Murray, Robert H., 3,697,134.
- Nusbickel, Edward M., Jr., 3,640,122.
- Parker, Calvin E., Sr., 3,680,441.
- Peoples, Richard A., 3,635,748.
- Rauch, Stewart E., Jr.; and Mayer, Edward H., 3,660,253.
- Riedel, John Y., 3,645,723.
- Roberts, Carlton E.; Rahn, Hilton N., Jr.; and Reid, Walter E., Jr., 3,700,504.
- Scales, Ralph E.; and Whitley, James O., Jr., 3,700,014.
- Seasholtz, Elwood F., 3,666,370.
- Seiler, Bernard C., 3,653,852.
- Shah, Dipak Co.; Ward, George W.; and Whiteley, Roger L., 3,655,349.
- Shin, Paik Woo; and Mayer, Edward H., 3,634,148.
- Shoemaker, Carlyle E., 3,668,021.
- Smilling, Carl W., 3,705,489.
- Stelts, Philip D.; and Kern, David W., 3,672,222.
- Sunnergren, Carl E., 3,633,894.
- Tarhan, Mehmet Orhan, 3,689,575.
- Townsend, Herbert E., 3,707,450.
- Utey, Ronald W., 3,655,350.
- Wald, Herbert; Young, Harold K.; and Blanch, William O., 3,693,955.
- Wildt, Roger H., 3,641,799.
- Winkler, Robert L.; and Baker, William J., 3,656,733.
- Yohe, Robert A.; and McCall, George L., 3,636,283.
- Young, Harold K.; Wald, Herbert; Blanch, William O.; and Meadows, Lacy C., 3,653,544.
- Bethune, John H.; Tarzi, Clement A.; Bolton, Michael R.; and Rainville, Joseph R., to Canadian International Paper Company. Process for making crimped rayon. 3,632,718, 1-4-72, Cl. 264-168.
- Betker, Ted C.: *See*—
Tabor, Joseph M.; and Betker, Ted C., 3,678,607.
- Betlejewski, Frank W.: *See*—
Costanza, Carl C.; Weber, Walter W.; Betlejewski, Frank W.; and Frystak, Richard, 3,659,934.
- Betlejewski, Frank W.; and Hanberg, Sanford M., to Bell & Howell Company. Control mechanism having cycle switches selectively actuating a mode switch. 3,674,948, 7-4-72, Cl. 200-50,00c.
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Beguine, Claude P.; and Betrix, Jean-Pierre F., 3,645,518.
- Bett, Bruce D.: *See*—
Blake, Lawrence W.; Bett, Bruce D.; and Lieber, Clement E., 3,634,924.
- Bettcher Industries, Inc.: *See*—
Bettcher, Louis A., 3,683,797.
Bettcher, Louis A., 3,687,067.
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Bettcher, Louis A., 3,704,665.
Fetzer, Fred; and Miranda, Ronald P., 3,654,664.
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Neale, Richard Bernard, 3,651,571.
- Better Packages Inc.: *See*—
Sharpe, Everett E.; and Hughes, Johnstone E., 3,707,135.
- Betteridge, Walter: *See*—
Ashcroft, Thomas Brian; Betteridge, Walter; and Tracey, Victor Allen, 3,689,320.
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Moradzadeh, Yaqub; and Bettiga, Albert C., 3,682,678.
- Bettir, Hubertus, to Olympia Werke AG. Numerical display tubes controlled by pulses produced by voltage inverter and directed by switch device to each tube in succession. 3,648,102, 3-7-72, Cl. 315-133.
- Bettinardi, Edward Robert, to Johns-Manville Corporation. Catalytic oxidation unit comprising a fluid permeable body of fibrous admixture. 3,697,447, 10-10-72, Cl. 252-458,000.
- Bettinger, James H., to United Fabricating Company, Inc. Raised floor panel and assembly. 3,681,882, 8-8-72, Cl. 52-126,000.
- Bettini, Dino: *See*—
Muller, Erwin; and Bettini, Dino, 3,671,791.
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- Betts, Anson G. Treatment of phosphate rock with acids. 3,671,189, 6-20-72, Cl. 23-88,000.
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MacKenzie, Burton T., Jr.; and Betts, Joseph E., 3,639,529.
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Kinney, Layton F.; and Betty, Roy J., 3,632,668.
Malec, Robert E.; and Betty, Roy J., 3,647,378.
Marsh, Byron E.; Betty, Roy J.; and Marsh, Frederick S., 3,650,951.
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Marsh, Byron E.; Kinney, Layton E.; and Betty, Roy J., Jr., 3,634,273.
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Predikant, Hans H. Hailer; Betz, Hermann; and Schaeffer, Johann, 3,660,019.
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Cervi, Frank R.; and Tonkyn, Richard G., 3,705,005.
Lieberman, Hillel, 3,697,438.
Lieberman, Hillel; Duharte-Francia, Carlos A.; and Henderson, John W., 3,697,439.
Lieberman, Hillel, 3,697,442.
Lieberman, Hillel; and Henderson, John W., 3,657,136.
- Noll, Charles A.; Feddern, Edward C.; and Stefanelli, Louis J., 3,656,908.
- Shema, Bernard F.; Brink, Robert H., Jr.; and Swered, Paul, 3,639,293.
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- Betzer, Cloyd L., to Roper Corporation. Burner grate. 3,679,467, 7-25-72, Cl. 117-129,000.
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- Beveridge, Harold N. Electrostatic loudspeaker. 3,668,335, 6-6-72, Cl. 179-111,00r.
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Hutchinson, Desmond Ernest; and Bickerdike, John David, 3,656,239.
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Casey, Edward H.; and Bickhaus, James T., 3,652,065.
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Ambraschka, Kasimir; and Bickl, Horst, 3,635,135.
Pfeifer, Josef; and Bickl, Horst, 3,649,120.
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- Biddison, John M., to Globe Tool and Engineering Company, The. Shaft rotating mechanism. 3,673,878, 7-4-72, Cl. 74-125.500.
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- Biddle, Bilburn Emmett. Pet-tender. 3,703,160, 11-21-72, Cl. 119-121.000.
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Bidegain, Georges Clement, 3,681,860.
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- Biebach, Erwin, to Siemens Aktiengesellschaft. Solderless connector for insulated electrical conductors. 3,636,238, 1-18-72, Cl. 174-87.
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- Bieber, William J., to Mr. Gasket Company. Shifting apparatus. 3,636,793, 1-25-72, Cl. 74-473.
- Biebuyck, Lawrence F., to American Metal Climax, Inc. Bolt assembly. 3,680,901, 8-1-72, Cl. 292-36.000.
- Biechele, Dallas J., Jr. Processing carp for human consumption. 3,690,899, 9-12-72, Cl. 99-111.000.
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- Biedeman, Stuart J.; and Jezewski, Walter E., to North American Philips Corporation. Air operated terminal insertion device. 3,668,760, 6-13-72, Cl. 29-203.00b.
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- Biedron, Ralf: See—
Schroder, Hermann; and Biedron, Ralf, 3,659,303.
- Biegler, Hanns: See—
Kallrath, Gottfried; Knorre, Helmut; Meyer-Simon, Eugen; and Biegler, Hanns, 3,672,937.
Kallrath, Gottfried; Knorre, Helmut; Meyer-Simon, Eugen; and Biegler, Hanns, 3,701,675.
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- Biehl, Roy J., to Sohn, Inc. Furniture construction. 3,645,550, 2-29-72, Cl. 297-454.
- Bieker, Lawrence W.; Schuler, Harold E.; and Kinghorn, Mark D., to Aerojet-General Corporation, mesne. Cage-to-track connection. 3,666,158, 5-30-72, Cl. 228-25.000.
- Biel, John H.: See—
Bader, Henry; and Biel, John H., 3,646,014.
Hopps, Harvey B.; Jackman, Dennis; and Biel, John H., 3,682,921.
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Li, Jorge Pengman; and Biel, John Hans, 3,642,857.
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- Biel, Elmer G. Molding joints and universal molding members therefor. 3,667,177, 6-6-72, Cl. 52-278.000.
- Bielak, Sigmund H.: See—
Malkowski, Leonard R.; and Bielak, Sigmund H., 3,639,225.
- Bielby, William B. Beeswax. 3,704,471, 12-5-72, Cl. 6-2.000.
- Bielefeld, Ewald J., Jr.; and Puma, Maurice J., to General Dynamics Corporation. Method of analyzing and controlling etchant solution concentrations. 3,698,867, 10-17-72, Cl. 23-230.00a.
- Bielefeldt, Irvin P.: See—
Moreau, Glenn T.; and Bielefeldt, Irvin P., 3,673,678.
- Bielefeldt, Irvin P., to Alco Standard Corporation. Heating apparatus with removable heating elements and shields. 3,697,725, 10-10-72, Cl. 219-388.000.
- Biel, Arthur, to Celotex Corporation, The, mesne. Carpet tile. 3,654,051, 4-4-72, Cl. 161-37.
- Bielefeldt, Friedrich Bernd, to Eckert & Ziegler G.m.b.H. Method of injection molding with thermosetting resins. 3,632,729, 1-4-72, Cl. 264-294.
- Bielicki, Marvin S.: See—
Martin, William A.; and Bielicki, Marvin S., 3,641,282.
- Bielle, Eugene. Multi-purpose watering equipment. 3,679,138, 7-25-72, Cl. 239-267.000.
- Bielomatik Leuze & Co.: See—
Negro, Guido, 3,669,583.
Negro, Guido, 3,688,809.
- Bien, Hans-Samuel: See—
Groll, Manfred; Bien, Hans-Samuel; and Neufang, Karl, 3,634,451.
Hohmann, Walter; and Bien, Hans-Samuel, 3,666,778.
Hohmann, Walter; Wunderlich, Klaus; and Bien, Hans-Samuel, 3,686,232.
Klaue, Erich; and Bien, Hans-Samuel, 3,694,444.
Schmitz, Reinold; Leister, Heinrich; and Bien, Hans-Samuel, 3,632,610.
- Bien, Hans-Samuel; and Klaue, Erich, to Farbenfabriken Bayer Aktiengesellschaft. Reactive azo dyestuffs containing a fluoropyrimidinyl group. 3,669,951, 6-13-72, Cl. 260-146.4.
- Bien, Hans-Samuel; Hohmann, Walter; Vollmann, Heinrich; and Heinrich, Leister, to Farbenfabriken Bayer Aktiengesellschaft. Anthraquinone dyes. 3,704,252, 11-28-72, Cl. 260-380.000.
- Biene, Canton: See—
Baumgartner, Werner Richard; Walker, Erich; Kaufmann, Hans Peter; and Biene, Canton, 3,683,613.
- Bienek, Gunter. Clearer for a carpet sweeper brush. 3,646,629, 3-7-72, Cl. 15-48.
- Bienert, Klaus; Lang, Winfried; Nordt, Egon; and Weidner, Herbert, to Wacker-Chemitronic Gesellschaft fur Elektronik Elektronik-Grundstoffe m.b.H. Process for making extra-pure arsenic by sublimation in the presence of carbon or boron. 3,700,413, 10-24-72, Cl. 23-294.000.
- Bienert, Walter B.: See—
Trimmer, Donald S.; and Bienert, Walter B., 3,653,758.
- Bienert, Walter B.; Levedahl, William J.; and Streb, Alan J., to Teledyne, Inc., mesne. Thermal control and power flattening for radioisotopic thermodynamic power system. 3,672,443, 6-27-72, Cl. 165-32.000.
- Bienfait, Constant, to N.V. Nederlandsche Kabelfabrieken. Machine for the manufacture of a multi-strand cable. 3,631,662, 1-4-72, Cl. 57-13.
- Biensan, Michel; and Bruant, Philippe, to Societe Nationale des Petroles d'Aquitaine tour Aquitaine. Anionic solution polymerization of lauroyl lactam. 3,651,024, 3-21-72, Cl. 260-78.
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- Bienvenue, Louis L.: See—
Wetch, Joseph R.; Sudar, Seymour; and Bienvenue, Louis L., 3,647,394.
- Bienwald, Wolfgang F.; and Bowie, William J., to Leviton Manufacturing Co., Inc. Tease-proof electric switch. 3,646,291, 2-29-72, Cl. 200-70.
- Bienwald, Wolfgang F.; and Bowie, William J., to Leviton Manufacturing Co., Inc. Trigger mechanism for power tool. 3,662,136, 5-9-72, Cl. 200-157.000.
- Bier, Albert, to Moeller & Neumann GmbH. Screwdown devices for rolling mills. 3,673,841, 7-4-72, Cl. 72-248.000.
- Bier, Gerhard: See—
Buning, Robert; Diessel, Karl-Heinz; and Bier, Gerhard, 3,637,625.
- Bier, Kenneth C.: See—
Rhodes, Gerald P.; Frankowski, Jerome J.; and Bier, Kenneth C., 3,658,444.
- Bier, Kenneth C., to Holley Carburetor Company. Pressure differential speed sensor. 3,643,639, 2-22-72, Cl. 123-103.
- Bier, Kenneth C.; Frankowski, Jerome J.; and Schumacher, Gustav A., to Holley Carburetor Company. Method and apparatus for gauging fluid flow. 3,646,600, 2-29-72, Cl. 73-118.
- Bier, Milan. Electroosmotic and electrodialysis concentration, purification, and desalting. 3,677,923, 7-18-72, Cl. 204-180.00p.
- Bierbaum, Dieter: See—
Martini, Karl; Forster, Peter; Bierbaum, Dieter; and Halm, Gunther, 3,664,472.
- Bieri, Hans: See—
Stommel, Rolf; and Bieri, Hans, 3,636,866.
- Bieri, Hans, to Olsson, Erik, AG. Apparatus for aligning continuous casting mold with the casting metal supply vessel. 3,653,428, 4-4-72, Cl. 164-281.
- Bieri, Hans. Screw connection for high loading. 3,707,107, 12-26-72, Cl. 85-1.00t.
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Black, Stewart L.; Childers, Spencer L.; and Bieri, Leonard, Jr., 3,683,790.
Jenkins, Ray T.; Degenfelder, Roy C.; Bieri, Leonard, Jr.; and Tetyak, John J., 3,645,272.
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- Bieringer, Johann: See—
Steffen, Robert; Crombach, Arno; Lossen, Hermann; and Bieringer, Johann, 3,639,297.
- Bierlein, John C.; De Hart, Arnold D.; and Handwerker, Louis W., Jr., to General Motors Corporation. Method and means for reducing fretting of contacting surfaces. 3,705,753, 12-12-72, Cl. 308-240.000.
- Bierlein, John David, to Du Pont de Nemours, E. I., and Company. Magneto-optic device having alternate layer film structure. 3,650,601, 3-21-72, Cl. 350-151.
- Biermann, Arnold E. Variable piston-stroke mechanisms. 3,663,226, 5-16-72, Cl. 92-57.
- Biermann, Peter: See—
Marker, Hannes; and Biermann, Peter, 3,689,094.
- Biermann, Theodore F.: See—
Bachman, Gustave Bryant; and Biermann, Theodore F., 3,689,576.
- Biermann, William A., to Controls Company of America. Metering valve. 3,675,892, 7-11-72, Cl. 251-121.000.
- Biernat, Raymond W.: See—
Morley, Ronald I.; Biernat, Raymond W.; and Smidt-Hayer, Arnold J., 3,688,112.
Morley, Ronald I.; Biernat, Raymond W.; and Smidt-Hayer, Arnold J., 3,702,400.
Morley, Ronald I.; Biernat, Raymond W.; and Smidt-Hayer, Arnold J., 3,707,435.
- Biernath, Emil; and Burkard, Hans, to Excentra Gesellschaft mit beschränkter Haftung. Radial piston machine. 3,670,629, 6-20-72, Cl. 92-72.000.
- Biernson, George; Euling, Raymond; and Jones, Paul W., to Sylvania Electric Products, Inc. Optical low-pass spatial filter. 3,671,107, 6-20-72, Cl. 350-162.0sf.
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Stump, Paul W.; and Bierstedt, Heinz J., 3,665,818.
- Bierwirth, Egon: See—
Buning, Robert; Bernhardt, Gunther; Bierwirth, Egon; and Trautvetter, Werner, 3,647,402.
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- Biesecker, Donald Leslie, to Illinois Tool Works Inc. Over-center locking device. 3,666,342, 5-30-72, Cl. 312-333.
- Biesecker, Douglas A.: See—
Lewis, Donald E.; and Biesecker, Douglas A., 3,690,616.
- Bieser, Albert H. Credit card verification system. 3,671,717, 6-20-72, Cl. 235-61.11c.
- Biesinger, Erwin. Apparatus for continuously treating textile material. 3,690,128, 9-12-72, Cl. 68-20.000.
- Biesterfeld, Horst; Brennecke, Manfred; and Widmann, Sampo, to Deininger, Bertram. U-shaped plate-like components and connecting elements therefor. 3,645,036, 2-29-72, Cl. 46-23.

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Leblond, Jean; Biet, Jean; and Danneels, Guy, 3,654,828.
Leblond, Jean; and Biet, Jean, 3,696,949.
- Biet, Jean-Pierre; Nguyen, Quang Tan; Peres, Gerard; and Ripoche, Gerard, to Compagnie Generale d'Electricite. Optical-electrical movement detector utilizing staggered rows photo detectors and logic for determining the location of a luminous spot. 3,697,76, 10-10-72, Cl. 250-209.000.
- Biethan, Uwe: *See*—
Riemhofer, Franz; Dittmann, Walter; Biethan, Uwe; Hornung, Karl-Heinz; and Schutze, Ernst-Christian, 3,668,276.
Riemhofer, Franz; Dittmann, Walter; Biethan, Uwe; Hornung, Karl-Heinz; and Schutze, Ernst-Christian, 3,678,128.
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- Biczeweld, Niehlaas. Telephone screening system. 3,654,396, 4-4-72, Cl. 179-18.
- Bifulco, Harry P., Jr., to North Atlantic Industries Inc. Apparatus for processing angular data. 3,646,337, 2-29-72, Cl. 235-186.
- Big Boy Manufacturing Co., Inc.: *See*—
Persinger, Laverne O.; and Persinger, Merle L., 3,667,449.
- Big Dutchman, Inc.: *See*—
Van Huis, Robert L., 3,702,109.
- Big George, Inc.: *See*—
Roberts, George S., 3,699,363.
- Big J Products, Inc.: *See*—
Morrell, Donald W., 3,653,448.
- Big Three Industrial Gas & Equipment Co.: *See*—
Durbin, Larry E.; and Thomas, Robert, 3,651,290.
- Bigache, Francois: *See*—
Alagy, Jacob; Bigache, Francois; and Cha, Bernard, 3,683,035.
- Bigdon, Orville W.; Edwards, Robert S.; and Powers, William J., III, to Texaco Inc. Process for preparation of zinc dialkyl dithiophosphates. 3,686,243, 8-22-72, Cl. 260-429.900.
- Bigelow, Edward J.: *See*—
Middelkoop, James H.; and Bigelow, Edward J., 3,647,226.
- Bigelow, Floyd E., Jr. Assembly of collapsed buildings for shipping. 3,680,273, 8-1-72, Cl. 52-143.000.
- Bigelow, Hugh A., to United States of America, Army. Wear testing apparatus. 3,688,556, 9-5-72, Cl. 73-7.000.
- Bigelow, John Howard, to Du Pont de Nemours, E. I., and Company. Direct-positive silver halide emulsions containing boron hydrides. 3,637,392, 1-25-72, Cl. 96-108.
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- Bigelow-Sanford, Inc.: *See*—
Norris, Alan H., 3,690,057.
Peters, Robert I., 3,690,056.
- Biggane, John D., to Superior Strut & Hanger Company. Clamp for pipe support with slanting pivotal assembly. 3,650,499, 3-21-72, Cl. 248-62.
- Biggs, Carl E., to Textron, Inc. Battery charging system using a coulometer as a logic device. 3,652,917, 3-28-72, Cl. 320-45.
- Biggs, Lawrence M., Jr., to United States of America, Navy. Expandable aerodynamic fin. 3,633,846, 1-11-72, Cl. 244-3.27.
- Biggs, Paul G., to Western Geophysical Company of America. Two-level depth controllers for seismic streamer cables. 3,673,556, 6-27-72, Cl. 340-7.000.
- Biggs, Robert W.: *See*—
Graham, Glenn R.; and Biggs, Robert W., 3,695,406.
- Bigley, Arthur C., Jr.; and Kramlick, Emil S., to Anaconda Company. The Copper smelting method and apparatus. 3,642,267, 2-15-72, Cl. 266-24.
- Bigliano, Robert Paul; and Thaxton, Karl Lehman, to Du Pont de Nemours, E. I., and Company. Method and system for simulating haftones. 3,668,311, 6-6-72, Cl. 178-6.700.
- Biglin, Duane O.; and Grothjan, Jerome R., to Owens-Illinois, Inc. Preformed plastic blank for making open mouth plastic containers. 3,634,182, 1-11-72, Cl. 161-42.
- Bigou, Jacques: *See*—
Garnier, Michel; and Bigou, Jacques, 3,686,533.
- Biheller, Hans J., to Worthington Corporation. Self adjusting backflow preventer for centrifugal pumps. 3,664,759, 5-23-72, Cl. 415-121.000.
- Bihler, Otto, to Bihler, Otto, KG. Feeding apparatus for wire and like elongated material. 3,690,533, 9-12-72, Cl. 226-165.000.
- Bihler, Otto, to Bihler, Otto, KG. Apparatus for providing contact heads on contact members. 3,694,614, 9-26-72, Cl. 219-103.000.
- Bihler, Otto, KG: *See*—
Bihler, Otto, 3,690,533.
Bihler, Otto, 3,694,614.
- Bijl, Aart: *See*—
Spaargaren, Klaas; and Bijl, Aart, 3,665,172.
- Bil, Milos S.: *See*—
Halasz, Alexander; Bil, Milos S.; and Brunner, Walter H., 3,634,478.
- Bil, Milos S., to Clairol Incorporated. Process for preparing nitro-phenylenc-diamines. 3,632,582, 1-4-72, Cl. 260-247.5.
- Bil, Milos S.; and Brunner, Walter H., to Clairol Incorporated. Dyeing human hair with hydroxyalkyl nitroaniline dyes. 3,642,423, 2-15-72, Cl. 8-10.1.
- Bilabel, Friedrich. Band filter with vacuum suction chamber. 3,669,272, 6-13-72, Cl. 210-152.
- Bilancia, Raymond A.: *See*—
Harder, Arthur J., Jr.; and Bilancia, Raymond A., 3,638,897.
- Bilancia, Raymond A., to Coach and Car Equipment Corporation. Seat with decorative cover assembly. 3,642,322, 2-15-72, Cl. 297-445.
- Biland, Hans Rudolf: *See*—
Dunnenberger, Max; and Biland, Hans Rudolf, 3,706,798.
Luthi, Christian; Biland, Hans Rudolf; and Duennenberger, Max, 3,639,249.
Luthi, Christian; Duennenberger, Max; and Biland, Hans Rudolf, 3,661,606.
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- Biland, Hans-Rudolf: *See*—
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- Bilhorn, John M.: *See*—
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- Bilhorn, John M., to ESB Incorporated. Duplex electrode construction using continuous metal carrier strip coated on one side with conductive adhesive. 3,697,328, 10-10-72, Cl. 136-175.000.
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- Billarant, Patrick. Flexible bands fitted with hooks for the fabrication of separable fastening devices. 3,673,301, 6-27-72, Cl. 264-163.000.
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- Billiet, Jan Maria G. R. Process and machine according to this process for printing or dyeing textiles or sheet material. 3,673,958, 7-4-72, Cl. 101-122.000.
- Billin, Eckhard Otto Walter: *See*—
Knothe, Erich Emil Karl; and Billin, Eckhard Otto Walter, 3,659,664.
- Billings, Raymond T. Continuous transfer process for coating rigid elongate work. 3,669,793, 6-13-72, Cl. 156-238.000.
- Billings, Roy O. Hydraulic actuators for orienting implements on cranes. 3,633,773, 1-11-72, Cl. 214-147.
- Billings, Roy O. Hydraulically actuated clamshell buckets. 3,641,689, 2-15-72, Cl. 37-186.
- Billings, Roy O. Pressure plate and linkage connection between a dipper stick and an implement. 3,669,287, 6-13-72, Cl. 214-147.000.
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- Billingsley, James D., to LTV Aerospace Corporation. Photographing means. 3,690,233, 9-12-72, Cl. 95-11.000.
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Joux, Jean-Louis Fernand; Mignot, Bernard Michel; and Billon, Michel Gaston Albert, 3,693,256.
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Yurcick, Peter A.; and Bills, Charles Tyler, 3,698,935.
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Amtsberg, Lester A.; Bilodeau, Paul J.; and Judd, Sebastian F., 3,685,593.
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- Bilotti, Anthony G., to Warner-Lambert Company. Sugarless gum containing dicalcium phosphate dihydrate. 3,655,866, 4-11-72, Cl. 424-48.
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Miller, Leroy J.; and BiLOW, Norman, 3,677,976.
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Eisenberg, Morris M., 3,667,179.
- Bilton, John, to Fluidrive Engineering Company Limited. Geared drives incorporating fluid couplings. 3,690,196, 9-12-72, Cl. 74-730.000.
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Gasper, Ralph L.; and Riordan, Donald E., 3,639,868.
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- Binckley, Earle T. Automotive safety side wind indicator. 3,686,938, 8-29-72, Cl. 73-189.000.
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Bachelder, Albert J.; and Binda, Frederick J., 3,652,281.
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Hromatka, Otto; and Binder, Dieter, 3,669,959.
- Binder, Erich, to Ciba-Geigy AG. Mechanism for holding a tubular core. 3,667,697, 6-6-72, Cl. 242-72.000.
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Stich, Heinrich; Ruckenstein, Kurt; Binder, Walter; and Hutter, Josef, 3,652,308.
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Model, Ernest; and Bindler, Jakob, 3,642,872.
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- Bindler, Jakob; and Keller, Rudolf. Levelling polyamide fiber dyeing with sulfonated long chain alkyl diphenyl ether and quaternized long chain alkyl ammonium alkylene oxide condensate. 3,684,426, 8-15-72, Cl. 8-15.000.
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Dohnalova-Binkova, Blanka; and Binek, Bedrich, 3,700,170.
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- Bing, Alan John, to British Railways Board. Laterally movable railway vehicle truck. 3,631,810, 1-4-72, Cl. 105-171.
- Bing, Colin C.: *See—*
 Neti, Radhakrishna M.; and Bing, Colin C., 3,692,485.
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 Zinn, Frank R., 3,676,567.
- Bingham, Bruce N., to Amerock Corporation. Slidable bolt catch. 3,671,065, 6-20-72, Cl. 292-175.000.
- Bingham, David W., to Pitters Proprietary Limited. Slicing apparatus. 3,667,522, 6-6-72, Cl. 146-131.000.
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 Lasch, Cecil A., Jr.; Bingham, George H.; and Berz, Gerhard, 3,645,581.
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 Powers Patrick; Graham, Reginald; and Bingham, Richard Albert, 3,686,683.
- Bingham, Richard C.: *See—*
 Fehr, Isaac N., Jr.; Morris, Trebor B.; Russ, John J.; Bingham, Richard C.; Rubi, Jose M.; Patton, James C.; and Cannon, Sidney E., 3,649,304.
- Bingham, Robert J.: *See—*
 Bundus, Robert H.; and Bingham, Robert J., 3,658,551.
- Bingham, Ronald H.; and Canavan, Edmond J., to Northrop Corporation. Electron beam line scanner with zig zag control electrodes. 3,683,230, 8-8-72, Cl. 315-12.000.
- Bingham, Terrence Ronald. Ramp plate and loader for mineral conveyors. 3,694,032, 9-26-72, Cl. 299-34.000.
- Bingham, Wallace Karl, to Minnesota Mining and Manufacturing Company. Retroreflective microspheres having a dielectric mirror on a portion of their surface and retroreflective constructions containing such microspheres. 3,700,305, 10-24-72, Cl. 350-105.000.
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 Leatherman, Ralph W., 3,699,285.
- Bini, Dante. Expandable reinforcement structure for inflatable doors. 3,686,818, 8-29-72, Cl. 52-646.000.
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 Rendeck, Robert B.; and Binkerd, Evan F., 3,700,847.
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 Lorenz, Gunter; Binkler, Heinrich; and Nischk, Gunther, 3,694,493.
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- Binkley, Frederick H., Jr.; Lanier, Eldred S., Jr.; and Barrilleaux, Robert G., to Texaco Inc. Sampling apparatus for waste disposal system. 3,680,389, 8-1-72, Cl. 73-421.00b.
- Binkou, Georgy Aronovich: *See—*
 Samodaev, Evgeny Timofeevich; Verchenko, Vasily Romanovich; Gorjunov, Vladimir Ivanovich; Andrikanis, Vladimir Konstantinovich; Ilichev, Valery Alexandrovich; Gavrin, Mikhail Grigorievich; and Binkou, Georgy Aronovich, 3,689,351.
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 Arulpragasam, Jeganandaraj A.; Binks, Dennis C.; Holmes, John J.; Minshall, John F.; Pinnell, Martin C.; and Williams, Clive, 3,680,052.
- Binks, Melvin J. Pinhole detector with internal light shield assembly. 3,697,758, 10-10-72, Cl. 250-202.000.
- Binning, Robert C.; Parts, Leo P.; Peresie, Robert J.; and Rodenburg, Margaret L., to Monsanto Research Corporation. Method of graphitizing fibers. 3,699,210, 10-17-72, Cl. 23-209.300.
- Binnings, Gerald F.; Meyer, Theodore N.; and Riley, Mel J., to Aerojet-General Corporation. Automated biological reaction instrument. 3,650,437, 3-21-72, Cl. 222-136.
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 Smith, Vernon O.; and Binns, John W., 3,642,314.
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 Florian, Jaroslav; and Binovec, Ladislav, 3,664,488.
- Binsack, Rudolf: *See—*
 Tacke, Peter; Binsack, Rudolf; and Weissel, Oskar, 3,673,123.
- Binswanger Glass Co.: *See—*
 Rupprecht, Charles F.; and Wiker, Frank, 3,668,955.
- Bintzer, William W., to Lukens Steel Company. Method and apparatus for reducing air infiltration into electric arc furnace during the charging and melting operation. 3,674,903, 7-4-72, Cl. 13-9.000.
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 Davies, Norman; and Binz, Robert D., 3,648,204.
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- Bio Bielefelder Offsetdruckplatten und zubehor B. Krause: *See—*
 Wachter, Reinhold, 3,632,207.
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 Kane, Gerald J.; and Weatherby, Eugene J., 3,658,480.
- Bio Data, Inc.: *See—*
 Collins, Ronald J., 3,690,404.
- Bio-Analytical Laboratories, Inc.: *See—*
 Fiore, John M., 3,675,641.
- Bio-Cal Instrument Company: *See—*
 Endl, Alfons, 3,690,772.
- Marx, Gunter H., 3,682,817.
- Bio-Consultants, Inc.: *See—*
 Drucker, Kenneth G., 3,676,723.
- Drucker, Kenneth Gus, 3,675,846.
- Koskela, Dennis E., 3,633,041.
- Bio-Controls Corporation: *See—*
 Von der Mozel, Hans A., 3,650,275.
- Bio-Controls, Inc., mesne: *See—*
 Bhattacharya, Bhairab Chandra; and van den Bovenkamp, Gustaaf J. (said van den Bovenkamp assor. to), 3,692,897.
- Van Den Bovenkamp, Gustaaf J., 3,687,806.
- Bio-Design, Incorporated: *See—*
 Shapiro, Alan R., 3,668,518.
- Bio-Dynamics, Inc.: *See—*
 Depositair, Edward L.; Shipley, Robert K.; and Santore, David T., 3,663,175.
- Hinchman, Gerald V.; Sommerville, James L.; and Schmitz, William D., 3,646,817.
- Bio-Logics, Inc.: *See—*
 Bushnell, Dwight J.; and Jensen, Billy M., 3,656,247.
- Davis, Louis E.; Jensen, Billy M.; Larson, Floyd L.; Huck, Rainer F.; and Stumph, Stephen L., 3,670,386.
- Larson, Roger V., 3,645,023.
- Lindsey, Joseph W.; and Murphy, Larry O., 3,664,337.
- McDermott, Clifton E.; and Steinicke, Darrell B., 3,660,916.
- Bio-Med Research Corporation: *See—*
 Kichnavi, John; and Leech, William D., 3,687,680.
- Bio-Medical Sciences, Inc.: *See—*
 Kolby, Mark J.; and Goldbach, Henry T., 3,704,362.
- Lang, Robert A., 3,677,088.
- Pickett, Charles G.; Lang, Robert A.; and Comers, Robert C., 3,677,866.
- Pickett, Charles G.; and Chadha, Desh D., 3,704,985.
- Sagi, Zsigmond; and Weinstein, Berel, 3,665,770.
- Sagi, Zsigmond, 3,674,176.
- Weinstein, Berel; and Sagi, Zsigmond L., 3,631,720.
- Weinstein, Berel, 3,631,889.
- Bio-Organic Chemicals, Inc.: *See—*
 Ronzio, Anthony R.; and Pull, Bernard T., 3,645,763.
- Bio-Research Consultants, Inc.: *See—*
 Van Dongen, Cornelis G., 3,699,925.
- Van Dongen, Cornelis G., 3,699,927.
- Bio-Research Laboratories Ltd.: *See—*
 Kruger, Gunther; and Burford, Robert G., 3,658,855.
- Bio-Science Laboratories: *See—*
 Thiers, Ralph E.; and Meyn, Julius, Jr., 3,669,626.
- Bio-Technical Resources, Inc.: *See—*
 Sfat, Michael R.; and Morton, Bruce J., 3,689,277.
- Bio/Data Corporation: *See—*
 Muller, Henry, 3,667,476.
- Raczak, Earl F., 3,656,351.
- Bio/Physics Systems, Inc.: *See—*
 Adams, Lawrence R.; and Kametsky, Louis A., 3,684,377.
- Friedman, Mitchell; Kametsky, Louis A.; and Klinger, Isaac, 3,705,771.
- Kametsky, Louis A.; and Klinger, Isaac, 3,662,176.
- Biochemfarm S.A.: *See—*
 Maffei, Silvio; and Tosi, Franco, 3,632,819.
- Biochemical Procedures, Inc.: *See—*
 Fernandez, Alberto Antonio, 3,702,821.
- Biocor Corporation, mesne: *See—*
 Stager, Francis W.; and Minor, Robert N., 3,647,111.
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 Tousimis, Anastasios J., 3,656,453.
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 Crabbe, Pierre; and Biollaz, Michel S., 3,658,856.
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 Rudel, Harry, 3,656,483.

- Biomation, Inc.: *See—*
 Cargile, William P., 3,662,380.
- Biometrics, Inc.: *See—*
 Molner, Stanley F., 3,684,355.
- Newman, Joel S.; and Jernigan, Marvin E., 3,679,295.
- Bion, Robert, and Company Limited: *See—*
 Bion, Walter R. H., 3,665,745.
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- Bionetics, Inc.: *See—*
 Patrick, Charles T., Jr., 3,701,346.
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 Benjamin, J. Malvern, Jr., 3,654,477.
- Biorseth, Elwin J., to Mead Corporation. The. Method and apparatus for inverting rigid or flexible sheets. 3,666,078, 5-30-72, Cl. 198-33.
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 Levin, Gilbert V.; and Topol, George J., 3,654,146.
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- Topol, George J., 3,681,235.
- Biotest Serum Institut GmbH: *See—*
 Stephan, Wolfgang, 3,686,395.
- Biotest-Serum-Institut, GmbH: *See—*
 Russmann, Horst; and Determann, Helmut, 3,705,652.
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 Hartmann, Hans Joerg; Schnell, Georg; Werst, Gerhard; Grosselfinger, Horst; Hartmann, Job-Werner; and Bipp, Hansjoerg, 3,704,152.
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- Birch, Richard W., to Richardson-Merrell Inc. Safety closure. 3,684,115, 8-15-72, Cl. 215-9.000.
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- Birchmeier, Hans P., to Burroughs Corporation. Plural level high-speed selection circuit. 3,633,163, 1-4-72, Cl. 340-147.
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- Weaver, Leonard Wheelock, 3,670,505.
- Bird, Brian Michael; and Rawcliffe, Gordon Hindle, to National Research Development Corporation. Three-phase, induction-motor, speed-changing method and control circuit. 3,703,672, 11-21-72, Cl. 318-227.000.
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- Bird, Forrest M.; and Pohndorf, Henry L. Exhalation valve for respirator. 3,688,794, 9-5-72, Cl. 137-529.000.
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 Maker, Paul, 3,659,495.
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- Bird, J. Vincent. Method of making powdered silicone rubber. 3,691,128, 9-12-72, Cl. 260-34.200.
- Bird, James M. Vehicle for rough terrain. 3,642,085, 2-15-72, Cl. 180-66.
- Bird Machine Company: *See—*
 Flaherty, Robert Brendan, 3,642,132.
- Morin, Dennis R., 3,680,696.
- Nichols, George E., Jr., 3,640,760.
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- Bird, Melvyn R., to General Motors Corporation. Air bearing with low-tensile strength permeable sleeve. 3,645,589, 2-29-72, Cl. 308-9.
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- Bird Provision Co.: *See—*
 Vogel, Paul W., 3,677,775.
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- Bird, Urban S.: *See—*
 Gammill, Adrian Monroe; Guinn, Franklin Keith; Bird, Urban S.; and Housholder, William R., 3,667,423.
- Bird, Waldo R.; and Shank, Wayne C., to Avco Corporation. Permanent magnet speed responsive clutch. 3,666,064, 5-30-72, Cl. 192-84.0pm.
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- Birdsall, Bert A. Feed mixer attachment. 3,645,507, 2-29-72, Cl. 259-100.
- Birdsall, Bert A. Material carrier. 3,700,283, 10-24-72, Cl. 298-7.000.
- Birdsboro Corporation: *See—*
 Chatterjee, Ranjit K., 3,686,918.
- Birdyshaw, Walter L.: *See—*
 Garrett, Leo Lawrence; and Birdyshaw, Walter L., 3,696,372.
- Birenzve, Ammon: *See—*
 Mayer, Richard E.; Birenzve, Ammon; and Weedon, Gene C., 3,692,867.
- Birger, Gunnar: *See—*
 Bergling, Charles; and Birger, Gunnar, 3,685,634.
- Birger, Pettersson, to Svenska Rotor Maskiner Aktiebolag. Regenerative heat exchangers. 3,687,192, 8-29-72, Cl. 165-8.000.
- Birgy, Leon Antoine Jean. Diethanolamine boric esters rust inhibitors. 3,642,652, 2-15-72, Cl. 252-389.
- Biribauer, Frank A.; and Bushnell, James D., to Esso Research and Engineering Company. Two-stage C₃ dewaxing/deoiling process. 3,658,688, 4-25-72, Cl. 208-31.
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 Kusovsky, Boris Isaakovich; Pavlov, Nikolai Ivanovich; Matichenko, Anatoly Petrovich; Zakharov, Sergei Alexandrovich; and Birjukov, Dmitry Anatolievich, 3,704,222.
- Birke, Walter: *See—*
 von der Eltz, Hans-Ulrich; Birke, Walter; Kunze, Wolfgang; Taunus, Hofheim; and Schon, Franz, 3,679,349.
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 Rose, J. Sterling, 3,661,718.
- Birle, John D., to General Electric Company. Refining of cubic boron nitride. 3,661,521, 5-9-72, Cl. 23-191.
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 Spicer, Courtland K.; and Birmingham, John M., 3,657,297.
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- Birmingham Small Arms Company Limited, The: *See—*
 Marshall, Alec Frank; and Taylor, Hugh Gordon, 3,659,985.
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- Birnbaum, Milton; and Fincher, Curtis L., to United States of America, Air Force. Continuous-wave non-spiking single mode laser. 3,648,192, 3-7-72, Cl. 331-94.5.
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- Birr, Jacques; Colson, Georges; Abel, Bernard; and Charbonnier, Patrice, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Thermochemical cutting or scarfing process. 3,639,178, 2-1-72, Cl. 148-9.
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Rosa, Albert G.; and Birrer, George W., 3,703,417.
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- Birtchet, Ralph D., to Schneider-Simpson, Inc. Roadway sloping attachment for asphalt paving machine. 3,680,451, 8-1-72, Cl. 94-45.000.
- Birtell, James C.: See—
D'Arcy, Robert M.; Birtell, James C.; Hensley, Emmery P.; and Pryor, Robert C., 3,667,744.
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Johansen, Birger Johan Walther, 3,682,141.
- Birts, Leslie; and Challenger, Ronald Scott, to United Kingdom Atomic Energy Authority. Removal of heat from a nuclear reactor under emergency conditions. 3,702,281, 11-7-72, Cl. 176-37.000.
- Birtwell, William Clifford, to Medical Innovations, Inc. Process and apparatus for synchronous assisting of blood circulation. 3,654,919, 4-11-72, Cl. 128-64.
- Birtwistle, Harold, to Lucas, Joseph, (Industries) Limited. Lamp failure warning circuits for road vehicles. 3,634,820, 1-11-72, Cl. 340-52.
- Birum, Gail H.; and Matthews, Clifford N., to Monsanto Company. 1,1-Bis(trifluoromethyl)-2-(triphenylphosphoranylidene) ethylene. 3,654,372, 4-4-72, Cl. 260-606.5.
- Birum, Gail H.; and Matthews, Clifford N., to Monsanto Company. Phosphoranylidene substituted cyclic compounds. 3,655,766, 4-11-72, Cl. 260-586.
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Nussbaum, Frank J., 3,671,168.
- Bischoff, Dieter, to Freudenberg, Carl. Carpet material. 3,669,819, 6-13-72, Cl. 161-66.000.
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Hammer, Dale F.; and Bischoff, Leo E., 3,691,443.
- Bischoff, Vincent E.; and Colecchi, Paul S., to Dick, A. B. Company. Self-damped guide rail. 3,656,818, 4-18-72, Cl. 308-3.
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Porter, David H.; and Biscoe, Thomas S., 3,678,265.
- Bise, Donald L., to Collins Radio Company. Narrow bandwidth mechanical filter using large area coupling wires. 3,633,133, 1-4-72, Cl. 333-71.
- Bishop, Thomas H.; and Young, Kenneth K., Jr., to TRW Inc. Means for preventing core shift in casting articles. 3,662,816, 5-16-72, Cl. 164-366.
- Bishop, Brian L. H.: See—
Barnard, Dominic Paul Edward; and Bishop, Brian L. H., 3,648,044.
- Bishop, Brian L. H., to Smiths Industries Limited. Weighing apparatus. 3,648,790, 3-14-72, Cl. 177-137.
- Bishop, Clyde E., to Continental Oil Company. Production of carboxylic acids by oxidation of 1,2-epoxides. 3,652,611, 3-28-72, Cl. 260-413.
- Bishop, Donald Lloyd: See—
Robertson, Mark Christian; and Bishop, Donald Lloyd, 3,693,252.
- Bishop, Ernest M., to Hexcel Corporation. Silane-titanate dispersions for coating aluminum. 3,687,882, 8-29-72, Cl. 260-29.20m.
- Bishop, Eugene T.: See—
Hayter, Roy G.; and Bishop, Eugene T., 3,639,523.
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- Bishop, Everett R., to General Electric Company. Closed loop control for stepping motor drive. 3,707,663, 12-26-72, Cl. 318-685.000.
- Bishop, Forest M. Lawn mower vertical cutter attachment. 3,693,333, 9-26-72, Cl. 56-16.100.
- Bishop Freeman Company: See—
Airdo, Joseph, 3,662,479.
- Bishop, George E.: See—
Anderson, Arvid B., 3,706,146.
- Bishop, George E.: See—
McCammon, William L.; and Bishop, George E., 3,684,458.
- Bishop Graphics, Inc.: See—
Miller, Genevieve Gayle, 3,649,273.
- Bishop, Irving N.; Mosher, Richard G.; and Simko, Aladar O., to Ford Motor Company. Combustion process for engine of spark ignition, fuel injection type. 3,696,798, 10-10-72, Cl. 123-32.0st.
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- Bishop, Jerald W. Hydraulic utility lift for trucks. 3,667,631, 6-6-72, Cl. 214-86.00a.
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- Bishop, John M.; and Simon, Emmett F., to Conolon Corporation, The. Sector gear for rod wrapping machine. 3,642,215, 2-15-72, Cl. 242-7.19.
- Bishop, Kenneth M. Swimming pool water circulation system. 3,682,311, 8-8-72, Cl. 210-169.000.
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Ghosh, Ranajit; Bishop, Nigel Douglas; and Bullock, Derek John William, 3,652,566.
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- Snell, Brian Kenneth; and Bishop, Nigel Douglas, 3,676,443.
- Bishop, Nigel Douglas; and Masters, Joan Irene, to Imperial Chemical Industries Limited. Pesticidal compounds and compositions containing them. 3,641,035, 2-8-72, Cl. 260-256.4.
- Bishop, Richard Patten: See—
Brown, Louis Stanislaus; March, Frank Adams; Bishop, Richard Patten; and Gilman, Bruce Calvin, 3,650,406.
- Bishop, Richard W. Self-contained amusement ride. 3,653,657, 4-4-72, Cl. 272-29.
- Bishop, Robert E.: See—
Workman, William Jr.; Boeger, James H.; and Bishop, Robert E., 3,657,964.
- Bishop, Robert James; and Wanie, Lee J., to Deere & Company. Control means for tractor-mounted driven implement. 3,633,699, 1-11-72, Cl. 180-53.
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- Bishop, Thomas R.: See—
Slator, Damon T.; Bishop, Thomas R.; and Peil, Archie W., 3,689,112.
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Meredith, Curtis L.; Barrett, Robert E.; and Bishop, William A., 3,683,050.
- Bishop, William A., to Copolymer Rubber & Chemical Corporation. Free flowing pellets of uncured elastomeric material. 3,669,722, 6-13-72, Cl. 117-100.00c.
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Wisecarver, Warren R., 3,648,909.
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- Bisinella, Angelo J., to Pettibone Corporation. Sand mulling or conditioning apparatus and plow construction therefor. 3,666,243, 5-30-72, Cl. 259-107.000.
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Grangaard, Orrin H., Jr.; and Selig, Ernest T., 3,678,739.
- Bisque, Ramond E.: See—
Stevens, Douglas N.; Bisque, Ramond E.; and Bloom, Duane N., 3,644,094.
- Bissaillon, Edmond J.: See—
Cook, Robert W.; Bissaillon, Edmond J.; and Dickinson, Robert P., 3,642,032.
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Kleptz, James A.; and Bissell, George H., 3,697,992.
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- Bissett, Joseph L. Method of preparing a meat product. 3,635,732, 1-18-72, Cl. 99-107.
- Bissett, Owen W.: See—
Berry, Robert E.; Bissett, Owen W.; Wagner, Charles J., Jr.; and Patterson, Eldridge P., 3,672,909.
- Bissett, Thomas B.: See—
Donohue, Thomas W.; Murphy, John Brian; and Bissett, Thomas B., 3,688,296.

- Bissett, Thomas B., to Bissett-Berman Corporation, The. Non-destructive readout for electrochemical storage cell. 3,634,834, 1-11-72, Cl. 340-173.
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Bissett, Thomas B., 3,634,834.
- Donohue, Thomas W.; Murphy, John Brian; and Bissett, Thomas B., 3,688,296.
- Pinto, James J., 3,680,063.
- Plehal, Edward J., 3,650,912.
- Plehal, Edward J., 3,700,974.
- Sandstrom, James P., 3,653,998.
- Bissig, Raymond J.: See—
Grawe, John R.; and Bissig, Raymond J., 3,660,523.
- Bissland, John D.: See—
McCardell, Willard B., Jr.; Bissland, John D.; and Witek, Roman J., Jr., 3,686,619.
- Bissonette, Vernon L.: See—
Brault, Albert T.; and Bissonette, Vernon L., 3,642,478.
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Stirton, Alexander J.; and Bistline, Raymond G., Jr., 3,632,517.
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- Bitler, Jesse S., to Bell Telephone Laboratories, Incorporated. Space diversity phased array retransmission system using time division. 3,696,421, 10-3-72, Cl. 343-100.0td.
- Bitonit, Paul A., to Ross Operating Valve Company. Sequence valve. 3,654,958, 4-11-72, Cl. 137-596.14.
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Dorenfeld, Adrian C.; and Bitsianes, Gust, 3,649,250.
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- Bittle, David F.: See—
Anderson, Carl S.; Bittle, David F.; Veazey, Thomas M.; and Wooten, Robert G., 3,642,733.
- Bittmann, Eric E., to Burroughs Corporation. Electromagnetic transducer employing a thin magnetic film having an oriented easy direction of magnetization. 3,633,188, 1-4-72, Cl. 340-174.1.
- Bittner, Clarence W., to Shell Oil Company. Nickel-containing crystalline alumino-silicate catalyst and hydrocracking process. 3,694,345, 9-26-72, Cl. 208-111.000.
- Bittner, Donald L. Determination of uricase activity. 3,677,903, 7-18-72, Cl. 195-103.50r.
- Bittner, Edward R.: See—
Jenks, Theodore E.; and Bittner, Edward R., 3,636,199.
- Bitto, Joseph R.; and Hammel, Clifford M., to Mohawk Data Sciences Corporation. Web feed apparatus with stepping motor drive. 3,644,812, 2-22-72, Cl. 318-254.
- Bittorf, Hannjoerg: See—
Heynisch, Hinrich; and Bittorf, Hannjoerg, 3,688,152.
- Bitschedit, Josef: See—
Seifert, Friedrich; and Bitschedit, Josef, 3,654,197.
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Michels, Aldred; and Bitschedit, Josef, 3,640,919.
- Seifert, Friedrich; Bitschedit, Josef; and Plenikowski, Johannes, 3,668,192.
- Seifert, Friedrich; and Bitschedit, Josef, 3,671,663.
- Bitumarin N.V.: See—
Span, Hylco J. Th.; and Woestenenk, Albert J., 3,635,033.
- Bitumen Industries Limited: See—
Kendall, John George Leonard; and Ladkin, Derek, 3,707,421.
- Bitzer, Donald L.; Bandy, Lyle E.; Johnson, Roger L.; and Skaperdas, Dominic O., to University of Illinois Foundation. Radial and circumferential magnetic head positioning mechanism. 3,641,529, 2-8-72, Cl. 340-174.1.
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Bivans, Elbert L.; and Kund, August, 3,665,674.
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- Biviator S.A.: See—
Adler, Karl; and Karger, Wolfgang, 3,707,710.
- Bixby, Bryan J., to Westinghouse Electric Corporation. Bi-directional direct current detector with transformer isolation. 3,634,875, 1-11-72, Cl. 324-98.
- Bixby, Bryan J.; and Paice, Derek A., to Westinghouse Electric Corporation. Pulse control drive system for power transistors. 3,666,971, 5-30-72, Cl. 307-282.
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Argabright, Perry A.; Presley, C. Travis; and Bixel, Harold C., 3,695,356.
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Sternberg, Shmuel; Bixler, Harris J.; and Michaels, Alan S., 3,639,306.
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- Bixler, Kenneth D.: See—
Reifers, Richard F.; and Bixler, Kenneth D., 3,682,365.
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Miller, Wesley W.; Litschi, Gerold; and Bixler, Warren A., 3,635,711.
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Muller, Ernst; and Maurer, Albrecht, 3,702,150.
- Bizzarri, Venanzio: See—
Magnusson, Bengt; and Bizzarri, Venanzio, 3,681,737.
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- Bjelland, John Louis; Flynn, Floyd W.; and Schutt, Norman C., to Powers Chemco, Inc. Vacuum actuated rotary drill. 3,690,780, 9-12-72, Cl. 408-58.000.
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- Bjork, Bengt Anders, to Domkraft AB Nike. Automatic cushioning valve. 3,687,417, 8-29-72, Cl. 254-93.00r.
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- Bjorkgren, Lars Gstafr. Roll press comprising two dissimilar rolls with equal deflection characteristics. 3,678,846, 7-25-72, Cl. 100-155.00r.
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- Bjorklund, Elmer G., to Clark Equipment Company. Power assisted clutch. 3,687,253, 8-29-72, Cl. 192-91.00a.
- Bjorklund, Lowell L., to Illinois Tool Works Inc. Sealing washer. 3,678,979, 7-25-72, Cl. 151-37.000.
- Bjorklund, Rolf: See—
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- Bjorksten, Johan A., to Griffolyn Company, Incorporated. Sound absorption structures. 3,667,175, 6-6-72, Cl. 52-144.
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- Paquette, Elmer G., 3,707,017.
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- Bjorn, James M.; and Marx, Frederick, Jr. Mercury loaded brass ball bearing. 3,701,072, 10-24-72, Cl. 339-5.001.
- Bjorn, Thomas E., to Stewart-Warner Corporation. Apparatus and methods for analyzing unbalanced in rotatable bodies. 3,680,390, 8-1-72, Cl. 73-457.000.
- Bjorn, Thomas E.; and Morrisett, Ralph W., to Stewart-Warner Corporation. Reversible motor interlock assembly for vehicle wheel spinners and the like. 3,688,590, 9-5-72, Cl. 74-16.000.
- Bjorn-Larsen, Knut L. Method of forming friction protrusions on elastic, open mesh garment fabric. 3,647,505, 3-7-72, Cl. 117-37.
- Bjornholt, John E.: See—
- Barnes, James A.; and Bjornholt, John E., 3,683,373.
- Bjornsen, Bjorn G.; and Atkinson, Louis D., to Johnson Service Company. Common supply for opposing jet fluidic device. 3,696,828, 10-10-72, Cl. 137-81.500.
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- Bjushgens, Georgy Sergeevich: See—
- Tupolev, Andrei Nikolaevich; Tupolev, Alexei Andreevich; Cheremukhin, Georgy Alexeevich; Bliznjuk, Valentin Ivanovich; Pukhov, Alexandr Leonidovich; Svishev, Georgy Petrovich; Bjushgens, Georgy Sergeevich; and Mikeladze, Vitaly Georgievich, 3,677,502.
- Blaakman, Frank L.: See—
- McFadden, Robert N.; and Blaakman, Frank L., 3,680,754.
- Blaauw, Andrew: See—
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- Blaauw, Andrew, to Case, J. I. Company. Brake operated transmission neutralizer. 3,645,368, 2-29-72, Cl. 192-4.
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- Bednarski, Thaddeus E., 3,639,789.
- Bloom, Leonard, 3,667,199.
- Brucker, William S., 3,677,657.
- Chambers, William W.; and Heston, David J., 3,642,389.
- Duran, Raymond J.; and Musch, Gordon F., 3,672,139.
- Dwyer, John R., Jr.; and Karasa, Alvydas P., 3,641,749.
- Flack, John Henry, 3,665,654.
- Fritts, Russell A.; and Nebold, Jerome I., 3,673,921.
- Moore, Robert G., Jr., 3,633,682.
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- Ostwald, Erich, 3,693,035.
- Rebold, Jerome I., 3,638,519.
- Sauerwein, William D.; Meloni, Robert A.; and Walter, Harvey J., 3,666,027.
- Stielper, Henry J., 3,694,967.
- Vick, Stephen L., 3,641,379.
- Vick, Stephen L.; and Clark, Weldon H., Jr., 3,688,848.
- Vogelsberg, Walter H., 3,641,410.
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- Walter, Harvey J., 3,645,500.
- Weber, Edwin J.; and Bunyca, Roderick F., 3,646,298.
- Weber, Edwin J., 3,670,413.
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- Wickham, John L.; and De Witt, Erik J., 3,693,773.
- William, Alan George, 3,706,332.
- Wood, John W., 3,690,051.
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- Black, Charles A., to Detrex Chemical Industries Inc. Percolator distillation system. 3,676,307, 7-11-72, Cl. 203-20.000.
- Black, Charles E., III; and Schaad, William J., to Indak Manufacturing Corporation. Electrical switches and turn signal switching systems utilizing the same. 3,686,449, 8-22-72, Cl. 200-11.000.
- Black Clawson Company, The: See—
- Artiano, Adrian; and Brown Robert M., 3,647,151.
- Bentley, Allan M.; and Christensen, Elmer, 3,667,517.
- Bowker, John F.; and Odegard, Warren H., 3,698,818.
- Fischer, Eduard F.; Farnworth, Edwin; and Christensen, Elmer, 3,661,283.
- Herbert, William, 3,698,649.
- Phelps, Richard W.; and Mehofer, Ronald O., 3,635,415.
- Plough, Irving L., 3,680,215.
- Black, Colon C.; to Sheldon, E. H., and Company. Drawer stop. 3,639,028, 2-1-72, Cl. 312-348.
- Black, Daniel A.; Ingersoll, Albert A.; York, Ira Bill Lee; and Jones, David O., to Textron, Inc. Fastening device and method of making same. 3,667,340, 6-6-72, Cl. 85-71.000.
- Black, Delbert L. Valve. 3,643,700, 2-22-72, Cl. 137-625.68.
- Black, Drummond Steen Poyner. Motor driven vehicular chassis and load carrying platform or container for transport thereby. 3,651,970, 3-28-72, Cl. 214-515.
- Black, Ernest P., to Sun Oil Company. Laminating wax. 3,666,744, 5-30-72, Cl. 260-94.90r.
- Black, Frank R., Jr.: See—
- Flournoy, Norman E.; Eisenlohr, Gerald M.; Black, Frank R., Jr.; and Schultz, James E., 3,683,846.
- Black, H. R., Company: See—
- Markwick, John P., 3,706,378.
- Black, Herman Wendell: See—
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- Black, Hugh. Tool attachment and method for automatically applying fasteners. 3,693,863, 9-26-72, Cl. 227-127.000.
- Black, J. Harold; Reed, Edward W.; and Stant, Vernon C., to American Brands, Inc. Automatic accumulator for cigars. 3,636,363, 1-18-72, Cl. 250-223.
- Black, James A.: See—
- Black, James A.; and Farwell, Harry Russell (said Farwell assor. to said), 3,656,493.
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- Black, James A. Flat bed web press index and registration. 3,650,207, 3-21-72, Cl. 101-115.
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- Black, James A.; and Farwell, Harry Russell, to Black, James A. Vacuum belt guiding means. 3,679,112, 7-25-72, Cl. 226-33.000.
- Black, James R.; and Gurev, Harold S., to Motorola, Inc. Vertical resistor. 3,680,028, 7-25-72, Cl. 338-308.000.
- Black, Jay I., to Avco Corporation. Error compensated fluidic temperature sensor. 3,651,639, 3-28-72, Cl. 60-39.12.
- Black, John C.; and Buckley, Frederick, to International Business Machines Corporation. All transistor logic employing transistors of a single conductivity type. 3,648,061, 3-7-72, Cl. 307-218.
- Black, Joseph M., to Zenith Radio Corporation. Selective etching process for changing shadow-mask aperture size. 3,653,900, 4-4-72, Cl. 96-36.1.
- Black, Leonard J., to Pacific Handy Cutter, Incorporated. Safety razor blade holder. 3,667,122, 6-6-72, Cl. 30-286.
- Black Products Co.: See—
- Lau, Erwin M., 3,633,692.
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- Black, Rexford E.: See—
- Read, Benjamin Hays; and Black, Rexford E., 3,703,458.
- Black, Richard I., to Remington Arms Company, Inc. Rescue light for a life support system. 3,638,258, 2-1-72, Cl. 9-321.
- Black, Richard W.; and Evans, Robert F., to Berg Electronics, Inc. Connector block. 3,697,933, 10-10-72, Cl. 339-192.00r.
- Black, Robert B. Water heater. 3,645,251, 2-29-72, Cl. 126-359.
- Black, Robert B. Water heater. 3,669,079, 6-13-72, Cl. 122-136.00r.
- Black, Robert B. Autoclave. 3,681,008, 8-1-72, Cl. 21-93.000.
- Black, Robert B. Transparency copying attachment. 3,689,148, 9-5-72, Cl. 335-18.000.
- Black, Robert D. Portable waste receptacle. 3,643,266, 2-22-72, Cl. 4-142.
- Black, Stewart L.; Childers, Spencer L.; and Bieri, Leonard, Jr., to Vendo Company, The. Recirculation coffee brewer. 3,683,790, 8-15-72, Cl. 99-289.000.
- Black, Svalis & Bryson, Inc.: See—
- Wood, Loren E.; and Free, Marvin H., 3,698,598.
- Black, Thomas J.; and Sawyer, Carl B., to Westermann, Werner F. High speed coin counting and sorting. 3,695,279, 10-3-72, Cl. 133-3.000.
- Black, Thomas J.; and Schmitt, Werner H., to Westermann, Werner F. Coin sorting and conveying apparatus. 3,698,537, 10-17-72, Cl. 198-33.0aa.

- Black, William Hill, Jr. Punching tool for producing connector nail plates. 3,685,336, 8-22-72, Cl. 72-325.000.
- Black, William J.; Holmstrom, William L.; Liess, Richard K.; and Teasdale, Max J., to Caterpillar Tractor Company. Replaceable cutting edge and tooth for earthmoving machines. 3,653,133, 4-4-72, Cl. 37-142.
- Black, William Raymond, to Borden Company, The. Urea-aldehyde resin adhesive process. 3,697,355, 10-10-72, Cl. 156-319.000.
- Blackburn, Bobby J. Method and apparatus for determining unbalance. 3,678,761, 7-25-72, Cl. 73-457.000.
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- Rhodes, Arthur Neville; and Blackburn, Denis Edward, 3,669,367.
- Blackburn, Horace D. Container support means. 3,632,072, 1-4-72, Cl. 248-150.
- Blackburn, Jack. Methods for producing pavement-like sites. 3,664,241, 5-23-72, Cl. 94-10.
- Blackburn, Leonard J. Structure demolition apparatus. 3,705,747, 12-12-72, Cl. 299-70.000.
- Blackburn, Marvin H.; and Corwin, Harry L., to Vernon Tool Co., Ltd. Apparatus for expanding tubes. 3,683,481, 8-15-72, Cl. 29-202.00d.
- Blackburn, Marvin J., to Vernon Tool Co., Ltd. Automatic lubricating and cooling device for tube expander. 3,693,387, 9-26-72, Cl. 72-41.000.
- Blackburn, Richard D., to General Electric Company. High-low voltage level sensor. 3,641,546, 2-8-72, Cl. 340-248.
- Blackburn, William A.; and Stevenson, Philip J., to Monsanto Company. Carpet underpad composite. 3,654,063, 4-4-72, Cl. 161-125.
- Blackberry, Alfred A. Magnetic sensor having a heat treated housing for collimating the sensor's flux. 3,659,194, 4-25-72, Cl. 324-34.
- Blackert, John E.; and Towers, Harvey S., to Xerox Corporation. Microfilm projection apparatus. 3,652,157, 3-28-72, Cl. 355-49.
- Blackett, Frank E.; and Sprouse, Jack E. Package insert applicator. 3,686,058, 8-22-72, Cl. 156-571.000.
- Blackett, John Harold, to Matburn (Holdings) Limited. Diathermy plate electrode. 3,662,757, 5-16-72, Cl. 128-416.000.
- Blackham, Norman; and Read, Mervyn H. H., to Smiths Industries Limited and Smiths Industries Pty. Limited. Movement for instruments. 3,668,520, 6-6-72, Cl. 324-106.000.
- Blackhawk Metal Products, Inc.: See—
- Grafton, Jim R.; Wilkins, Glenn E.; and Murphy, Joseph F., 3,646,928.
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- Blackinton, V. H. & Co., Inc.: See—
- Davis, Gerard Richard, 3,660,915.
- Blackley, William D.: See—
- Bialy, Jerzy J.; Siegart, William R.; Blackley, William D.; and Chafetz, Harry, 3,652,238.
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- Reinhard, Russell R.; and Blackley, William D., 3,644,449.
- Blacklock, Colin Francis, to TRW Inc. Fastener. 3,704,486, 12-5-72, Cl. 24-73.00p.
- Blackman, Arthur W.: See—
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- Blackman, Calvin C.: See—
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- Blackmer, David E.: See—
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- Spergel, Philip; Gaines, Stanley L.; Maxwell, William; McFayden, Ronald; Rosse, Thomas A.; and Blackmer, David E., 3,658,478.
- Blackmer, David E., to Instrumentation Laboratory, Inc. Fault sensing instrumentation. 3,661,748, 5-9-72, Cl. 204-195.
- Blackmer, David E. RMS circuits with bipolar logarithmic converter. 3,681,618, 8-1-72, Cl. 307-229.000.
- Blackmer, David E., to Instrumentation Laboratory, Inc. Sensor instrumentation. 3,694,734, 9-26-72, Cl. 324-29.000.
- Blackmer, Dwight: See—
- Bernier, Robert N.; Blackmer, Dwight; and Paulsen, Paul L., 3,704,838.
- Blackmer, Dwight W.; and Bernier, Robert N., to Wanskuck Company. Reel. 3,680,809, 8-1-72, Cl. 242-118.600.
- Blackmon, John G., to Carolina Products, Inc. Purge apparatus for refrigeration system. 3,664,147, 5-23-72, Cl. 62-85.000.
- Blackmond, Ronald C., to Robicon Corporation. Multiphase alternating current regulation system for transformer-coupled loads. 3,676,766, 7-11-72, Cl. 323-6.000.
- Blackmore, Joseph J.; and Glunt, Perry G. Valved manifold for gauging a plurality of fluid pressures. 3,633,618, 1-11-72, Cl. 137-597.
- Blackmore, Kenneth A. E., to Georgia-Pacific Corporation. Process for preparation of a pesticide in dry form. 3,657,446, 4-18-72, Cl. 424-274.
- Blackshear, Perry L.; Forstrom, Richard J.; Dorman, Frank D.; and Nicoloff, Demetre M., to University of Minnesota, The Regents of the. Jet pump cardiac replacement and assist device and method of at least partially replacing a disabled right heart. 3,667,69, 6-6-72, Cl. 3-1.
- Blackstock, Hoyt A.; and Ross, Nicholas D., to Carnation Company. Particulate food product. 3,689,290, 9-5-72, Cl. 99-140.000.
- Blackstock, Thomas A., to United States of America, National Aeronautics and Space Administration. Ferry system. 3,698,659, 10-17-72, Cl. 244-1.0ss.
- Blackstone Corporation: See—
- Hale, Everett W.; Hawkinson, Paul H.; and Robbeloth, Edward T., 3,672,653.
- Blackstone, John A. Transfer tail clamping apparatus. 3,670,777, 6-20-72, Cl. 139-247.000.
- Blackstone Manufacturing Co., Inc.: See—
- Podraza, Chester S., 3,669,326.
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- Bozeman, Wright D.; and Blackwell, Clifford D., 3,667,425.
- Blackwell, Dana J., to Lewis Engineering Company, The. Remote controlled clock reset device. 3,675,410, 7-11-72, Cl. 58-35.00r.
- Blackwell Electronics Ind., Co., Ltd.: See—
- Nozawa, Shunichi; Kuroi, Hisashi; Hatada, Masamichi; and Fukuyama, Shunsaku, 3,701,925.
- Blackwell, George T., Jr. Cutter tooth assembly for grinder. 3,642,214, 2-15-72, Cl. 241-191.
- Blackwell, John, to Du Pont de Nemours, E. I., and Company. Cationic azo dyes containing naphthacyl ammonium salts. 3,652,532, 3-28-72, Cl. 260-187.
- Blackwell, John, to Du Pont de Nemours, E. I., and Company. Uniformly dyed red to green water swellable cellulosic fibers. 3,653,800, 4-4-72, Cl. 8-21.
- Blackwell, John, to Du Pont de Nemours, E. I., and Company. Uniformly dyed blue or turquoise water swellable cellulosic fibers. 3,656,880, 4-18-72, Cl. 8-21.
- Blackwell, John; Gumprecht, William Henry; and Starn, Roy Emerson, Jr., to Du Pont de Nemours, E. I., and Company. Process of treating water swellable cellulosic materials. 3,656,991, 4-18-72, Cl. 117-33.3.
- Blackwell, John, to Du Pont de Nemours, E. I., and Company. Water insoluble blue anthraquinone dyes for cellulosic and synthetic fibers. 3,657,285, 4-18-72, Cl. 260-381.
- Blackwell, John; and Toji, Masuo, to Du Pont de Nemours, E. I., and Company. Uniformly dyed yellow to navy blue water swellable cellulosic fibers. 3,667,897, 6-6-72, Cl. 8-21.00c.
- Blackwell, John; and Tropea, Alfred, to Du Pont de Nemours, E. I., and Company. Preparation of water-insoluble mono- and disazo dyes. 3,678,028, 7-18-72, Cl. 260-186.000.
- Blackwell, John; Gumprecht, William Henry; and Starn, Roy Emerson, Jr., to Du Pont de Nemours, E. I., and Company. Water swollen cellulose dyeing with high molecular weight disperse dye in a glycol ether solution. 3,706,525, 12-19-72, Cl. 8-21.00c.
- Blackwell, John; and Wilks, Sherlock Edward, to Du Pont de Nemours, E. I., and Company. Cellulose dyed water while swollen in a glycol bath with anthrapyrimidine dye. 3,707,348, 12-26-72, Cl. 8-21.00c.
- Blackwell, John Francis: See—
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- Blackwell, Lyman L., to Statitrol Corporation. Resistance controlled timed pulse generator. 3,673,586, 6-27-72, Cl. 340-237.00s.
- Blackwell, Randal L.: See—
- Byrd, Chester L.; and Blackwell, Randal L., 3,692,203.
- Blackwell, Ray E. Pet-door-containing insert unit for a sliding-door frame. 3,654,733, 4-11-72, Cl. 49-168.
- Blackwell, Wayne Waldo; Earle, John Goodell; O'Connell, John Joseph; Pierce, Edwin Bruce; and Shabe, John Edward, to International Business Machines Corporation. Catenated files. 3,704,453, 11-28-72, Cl. 340-172.500.
- Blackwell, Willis A.: See—
- Riesbeck, Laverne J.; and Blackwell, Willis A., 3,666,096.
- Blackwood, James O.; and Cullis, Brian D., to Commonwealth Scientific and Industrial Research Organization. Production of carbon tetrachloride. 3,697,610, 10-10-72, Cl. 260-664.000.
- Bladh, James C., to United States of America, Navy. Anti-swimmer buoy. 3,680,161, 8-1-72, Cl. 9-8.00r.
- Blaes, Viggo A.: See—
- Johnson, Virgil E., Jr.; Scherer, John O., Jr.; Miller, Eugene R.; and Blaes, Viggo A., 3,635,253.
- Blagg, Leon. Coupler-aligning trailer hitch. 3,675,947, 7-11-72, Cl. 280-500.000.
- Blaha, Eli W., to Standard Oil Company (Indiana). 2-Hydrocarbyldithio-5-mercapto-1,3,4-thiadiazoles and their preparation. 3,663,561, 5-16-72, Cl. 260-302.
- Blaha, Emil; and Kitzen, Maurice R., to Sela Corporation of America. Catalytic reactor. 3,656,913, 4-18-72, Cl. 23-288.
- Blaha, John F.: See—

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 Blaiklock, Paul M.: *See—*
 Hatch, Richard W., Jr.; and Blaiklock, Paul M., 3,654,947.
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 Blaine, Harlan P. Method and apparatus for exercising the oculomotor accommodation mechanism of the eyes. 3,687,527, 8-29-72, Cl. 351-39.000.
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 Blair, Farnham, 3,639,044.
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 Blair, George S.: *See—*
 Burrage, Benjamin S.; and Blair, George S., 3,675,760.
 Blair, Gerald E.: *See—*
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 Blair, James E., to United States of America, Navy. Bomblet. 3,658,004, 4-25-72, Cl. 102-4.000.
 Blair, Lesley W. Adjustable drill jig. 3,694,100, 9-26-72, Cl. 408-105.000.
 Blair, Lloyd R.: *See—*
 Martin, Gregory L.; and Blair, Lloyd R., 3,699,448.
 Blair Manufacturing Co., Inc.: *See—*
 Ryan, Kelly P., 3,662,800.
 Blair, Raymond. Bosal device. 3,657,863, 4-25-72, Cl. 54-6.
 Blair, Richard L. Treating liquid waste effluent. 3,674,216, 7-4-72, Cl. 241-18.000.
 Blair, Thomas O. Method and tool for evertng tubular cloth material. 3,637,119, 1-25-72, Cl. 223-39.
 Blair, Thomas O. Underwater oil leakage collecting apparatus. 3,658,181, 4-25-72, Cl. 210-170.
 Blair, Walter A.: *See—*
 Fortini, Jack G.; Blair, Walter A.; and Grodsky, Gerold M., 3,701,768.
 Blair, Winford; and Bubel, Walter L., to Rohr Corporation. Method of forming a honeycomb core panel. 3,656,224, 4-18-72, Cl. 29-471.1.
 Blair, Winford, to Rohr Corporation. Brazing stop-off treatment of perforated metal sheets. 3,663,270, 5-16-72, Cl. 117-98.
 Blair/Johnson, Inc.: *See—*
 Fortini, Jack G.; Blair, Walter A.; and Grodsky, Gerold M., 3,701,768.
 Blaisdell, Donald Stapf; and Klaas, Ruth Elizabeth Barry. Method and apparatus for treatment of aqueous liquor. 3,697,420, 10-10-72, Cl. 210-42.000.
 Blaisdell, William H.; Cornelius, Edward C.; and Emerson, Howard J., to Eastman Kodak Company. Lens apparatus for inspection system. 3,663,824, 5-16-72, Cl. 250-219.00r.
 Blaisdell, William H.; and Cornelius, Edward C., to Eastman Kodak Company. Flying spot scanning. 3,675,016, 7-4-72, Cl. 250-83.00h.
 Blaising, Walklett. Overhead sign mounting. 3,691,677, 9-19-72, Cl. 40-128.000.
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 Blake, Carl B.; and Tung, George K. L., to Frye Industries, Inc., mesne. Printing ink. 3,673,135, 6-27-72, Cl. 260-17.00a.
 Blake, Charles T., to Warner & Swasey Company, The. Machine tool. 3,691,879, 9-19-72, Cl. 82-2.500.
 Blake, Darrell N. Perforating machine. 3,698,222, 10-17-72, Cl. 72-129.000.
 Blake, Donald E. Method of reaming a rotating pipe. 3,659,482, 5-2-72, Cl. 408-1.
 Blake, Edward S., to Monsanto Company. Substituted amides. 3,706,796, 12-19-72, Cl. 260-558.00d.
 Blake, Graham John: *See—*
 Flint, John Anthony; and Blake, Graham John, 3,699,068.
 Blake, Graham John, to Imperial Chemical Industries Limited. Method of reducing the antifreeze concentration in emulsions of vinyl chloride polymers. 3,654,208, 4-4-72, Cl. 260-29.6.
 Blake, Henry W.: *See—*
 McDonald, Patrick H.; Blake, Henry W.; Myers, Guy A.; Pugh, Claud E.; and Todd, Edward S., 3,633,403.
 Blake, John Berchmans; and Ashworth, Roger Anderton, to All-speeds Holdings Limited. Torque transmitting devices. 3,664,474, 5-23-72, Cl. 192-56.00f.
 Blake, Lawrence W.; Bett, Bruce D.; and Lieber, Clement E., to American Hospital Supply Corporation. Method of making multi-lumen balloon catheter. 3,634,924, 1-18-72, Cl. 29-447.
 Blake, Minden Vaughan. Inertia safety belts. 3,649,076, 3-14-72, Cl. 297-386.
 Blake, Paul Desmond; Johnston, Roy Douglas; Phelps, Brian; Chapman, Edwin Albert; and Bartlett, Ronald Leonard, to Murex Welding Processes Limited. Arc welding. 3,702,390, 11-7-72, Cl. 219-146.000.
 Blake, Ralph Kingsley, to Du Pont de Nemours, E. I., and Company. Metal hexacyanoferrate coated silver halide elements and process for making lithographic images. 3,635,710, 1-18-72, Cl. 96-33.
 Blake, Ralph Kingsley, to Du Pont de Nemours, E. I., and Company. Negative image silver transfer development. 3,649,270, 3-14-72, Cl. 96-29.
 Blake, Ralph Kingsley; and Overman, Joseph De Witt, to Du Pont de Nemours, E. I., and Company. Nitrogen-containing Dmax maintainers for use in photosoluble emulsions. 3,652,279, 3-28-72, Cl. 96-64.
 Blake, Richard K.; and Jotwani, Haresh C., to North Electric Company. Multi-line telephone set with switching capability. 3,665,112, 5-23-72, Cl. 179-99.000.
 Blake, Richard K.; De Hilster, Robert J.; and Porter, Warren Wesley, to North Electric Company. Telephone repertory dialer. 3,665,113, 5-23-72, Cl. 179-90.
 Blake Rivet Co.: *See—*
 Swindt, Joseph K.; and Oelke, Erwin S., 3,641,865.
 Blake, Robert J.; and Roy, Guy W., to Stauffer Chemical Company. Oxychlorination of saturated and unsaturated hydrocarbons in the presence of a fluidized catalyst containing lanthanum and didymium. 3,657,367, 4-18-72, Cl. 260-659.
 Blake, Stephen, to Pennwalt Corporation, mesne. 1,6-Bis(2-oxacyclohexyl)-hexane-1,6-diones and a process for producing them. 3,676,498, 7-11-72, Cl. 260-586.00r.
 Blake, Trevor: *See—*
 Klemm, Carl John; Tietz, Richard August; Street, Terrell Ray; and Blake, Trevor, 3,661,577.
 Blake, Walter E.: *See—*
 Meyerhoff, Alfred; and Blake, Walter E., 3,683,492.
 Blakeley, James, to Victaulic Company of America, mesne. Coupling for plastic pipe. 3,695,638, 10-3-72, Cl. 285-112.000.
 Blakely, Richard P., to Case, J. I., Company. Hydraulic control linkage for implement. 3,695,474, 10-3-72, Cl. 214-771.000.
 Blaker, Bernard: *See—*
 Slifstein, Robert D.; and Blaker, Bernard, 3,659,820.
 Blakeslee, A. Eugene; Foster, Luther M.; and Plaskett, Thomas S., to United States of America, Army. Method of eliminating copper contamination. 3,673,064, 6-27-72, Cl. 204-147.000.
 Blakeslee, Byron Edward; Gajewski, Thaddeus Joseph; and Ishida, Akio, to Johns-Manville Corporation. Electroforming process. 3,649,474, 3-14-72, Cl. 204-6.
 Blakeslee, Daniel Leo, to Stacor Visionaire Corporation. Automatic fastening machine. 3,681,842, 8-8-72, Cl. 29-430.000.
 Blakeslee, Kenneth L. Electronic sequential switch. 3,699,390, 10-17-72, Cl. 317-16.000.
 Blakeway, Carman H.; and Stone, Darold D., to Pacific Gas Equipment Company. Hoisting apparatus. 3,638,804, 2-1-72, Cl. 212-8.
 Blakey, Roy, to Girling Limited. Vehicle braking systems. 3,672,729, 6-27-72, Cl. 303-9.000.
 Blanc & Co.: *See—*
 Herbold, Werner R., 3,657,776.
 Blanc, Bernard: *See—*
 Gibier-Rambaud, Alain; and Blanc, Bernard, 3,652,506.
 Blanc, Charles; and Joly, Jean, to Societe Rhodiaceta. Process for producing textured thermoplastic yarns. 3,703,754, 11-28-72, Cl. 28-72.140.
 Blanc de la Naulte, Philippe; and Ginhoux, Roland, to Comptoir Europeen de Distribution et de Representation. Method for manufacturing articles made of flexible plastic. 3,673,030, 6-27-72, Cl. 156-193.000.
 Blanc, Jean: *See—*
 Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,686,265.

- Blanc, Jean, to Societe Nationale des Petroles d'Aquitaine. Process for the oxidation of unsaturated hydrocarbons. 3,654,354, 4-4-72, Cl. 260-533.
 Blanc, Jean-Henry: *See—*
 Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean-Henry; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,641,102.
 Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean-Henry; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,678,091.
 Blanc-Guenee, Janine L.: *See—*
 Gautier, Jean A.; Miocque, Marcel Y.; Moskowitz, Henri; Blanc-Guenee, Janine L.; Raynaud, Guy M.; and Dorme, Nicole A. M., 3,655,762.
 Blance, Robert B.; and Gardner, Donald, to Monsanto Company. Electrical tape. 3,632,412, 1-4-72, Cl. 117-122.
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 Blance, Robert B.; Cahill, David R.; and Nachtel, Peter. Novel interpolymer blends. 3,692,878, 9-19-72, Cl. 260-901.000.
 Blanch, William O.: *See—*
 Wald, Herbert; Young, Harold K.; and Blanch, William O., 3,693,955.
 Young, Harold K.; Wald, Herbert; Blanch, William O.; and Meadows, Lacy C., 3,653,544.
 Blancha, Erwin B., to General Motors Corporation. Plastic bearing for an airless spray gun. 3,667,681, 6-6-72, Cl. 239-393.000.
 Blanchard, Alain; and Faure, Alphonse, to Rhone-Poulenc S.A. Process for effecting absorption or removal of gas from a liquid. 3,651,616, 3-28-72, Cl. 55-16.
 Blanchard, Byron E.: *See—*
 Westcott, Vernon C.; Blanchard, Byron E.; Davis, Paul A.; and Prevot Stephane, 3,678,742.
 Blanchard, Clarence E., to Outboard Marine Corporation. Mechanical arrangement for trimming an outboard motor. 3,688,733, 9-5-72, Cl. 115-41.0ht.
 Blanchard, David L.: *See—*
 Donahue, William J.; Blanchard, David L.; and Wack, John M., 3,670,656.
 Blanchard, Eugene J.: *See—*
 Lofton, John T.; Harper, Robert J., Jr.; and Blanchard, Eugene J., 3,666,400.
 Lofton, John T.; Harper, Robert J., Jr.; and Blanchard, Eugene J., 3,676,207.
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 Blanchard, Hunert, to Sidel, Le Havre. Device for removing bottom scraps of extrusion-blown hollow thermoplastic bodies. 3,667,888, 6-6-72, Cl. 425-307.000.
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 Blanchard, Robert R.: *See—*
 Kropscott, Earle L.; Blanchard, Robert R.; and Schramm, James N., 3,687,873.
 Young, Warren L.; Kennedy, James S.; Carnahan, Norman F.; and Blanchard, Robert R., 3,632,848.
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 Blanchard, Russell T. Collapsible container. 3,700,134, 10-24-72, Cl. 217-12.000.
 Blanchard, Walter P. Automatically operated oil separator scum trough. 3,666,102, 5-30-72, Cl. 210-138.
 Blanchenot, John P., to International Telephone and Telegraph Corporation. Coaxial cable connector. 3,706,958, 12-19-72, Cl. 339-177.00e.
 Blanchet, Charles, to Societe Grenobloise d'Etudes et d'Applications Hydrauliques (SOGREAH). Icebreaker equipment for ships. 3,636,904, 1-25-72, Cl. 114-41.
 Blanchet, James P.; Hotes, Charles M.; and Reynolds, Thomas J., to Western Gear Corporation. Pipe tensioning unit. 3,669,329, 6-13-72, Cl. 226-108.000.
 Blanchet, Raymond J.; and Stanton, William G., to United States Steel Corporation. Method and apparatus for making twisted stone sawing strands and the like. 3,704,580, 12-5-72, Cl. 57-34.0at.
 Blanchette, Robert G.: *See—*
 Baltazzi, Evan S.; Blanchette, Robert G.; and Minnis, Ralph L., 3,672,889.
 Blanchette, Robert G., to Addressograph-Multigraph Corporation. Cumulene containing photoconductive binder elements for use in electrophotography. 3,674,473, 7-4-72, Cl. 96-1.500.
 Blanchfield, Richard J.; and Smith, John F., to Standard Chemical Limited. Chlorate cell. 3,639,223, 2-1-72, Cl. 204-95.
 Blanck, Hillard: *See—*
 Prince, Martin; Blanck, Hillard; and Tarancon, Gregorio, 3,667,191.
 Blanco, Antonio Lopez, to Europote S.A. Process for coating paper by moulding. 3,687,711, 8-29-72, Cl. 117-64.00c.
 Blanco, Francisco. Smoker's pipe. 3,662,764, 5-16-72, Cl. 131-207.000.
 Blanco, Victor M. Protective surgical sleeve. 3,657,741, 4-25-72, Cl. 2-59.
 Blancquart, Pierre, to Societe a Responsabilite Limitee Doittau Products Metallurgie. Method of applying a thermal insulating coating to an ingor wall. 3,687,700, 8-29-72, Cl. 117-5.100.
 Bland, George F. Binary data transmission system and clocking means therefor. 3,688,036, 8-29-72, Cl. 178-68.000.
 Bland, John: *See—*
 Eyre, Brian; and Bland, John, 3,671,075.
 Bland, Peter Douglas: *See—*
 Brian, Robert Coles; and Bland, Peter Douglas, 3,673,087.
 Bland, Ray A.: *See—*
 Dickey, Clyde W.; and Bland, Ray A., 3,678,720.
 Bland, Stephen William, to Imperial Chemical Industries Limited. Dyestuffs and photographic process. 3,681,345, 8-1-72, Cl. 260-240.200.
 Blandin Paper Company: *See—*
 Dentch, Milton P.; Jodrey, Robert M.; Gucstella, Samuel L.; and Larrivee, Jerry J., 3,690,297.
 Blanding, John E.; Trageser, Edmund C.; and Harrington, James Vincent, to General Dynamics Corporation. Underwater drilling methods and apparatus. 3,661,204, 5-9-72, Cl. 166-5.
 Blandy, William. Impregnated corrugated board. 3,691,002, 9-12-72, Cl. 161-137.000.
 Blane, Henry R., to Sperry Rand Corporation. Pulse-to-pulse instantaneous automatic gain control circuit. 3,704,421, 11-28-72, Cl. 325-408.000.
 Blangeard, Gerard: *See—*
 Joly, Jean; and Blangeard, Gerard, 3,661,754.
 Blanch, Steve R. Pump operated removal device for cleaning apparatus. 3,706,377, 12-19-72, Cl. 209-446.000.
 Blanie, Marie Jean Michel Paul; Ramis, Jean; and Robert, Henri R., to Societe Civile d'Inventions Idees. Proportioning valve for a pressurized dispenser. 3,705,667, 12-12-72, Cl. 222-136.000.
 Blank, Artur: *See—*
 Croveti, Aldo Joseph; Germann, Richard Paul; and Blank, Artur, 3,657,353.
 Blank, Benjamin; and Zuccarello, William A., to Smith Kline & French Laboratories. Anti-adrenal compositions comprising triphenylprpyl amines. 3,644,648, 2-22-72, Cl. 424-330.
 Blank, Edward: *See—*
 Wolf, David; and Blank, Edward, 3,668,625.
 Wolf, David; and Blank, Edward, 3,707,709.
 Blank, Fritz: *See—*
 Van Auker, John A.; Kaufman, Mahlon Gene; and Blank, Fritz, 3,677,635.
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 Blank, Hans G.; and Greene, Richard M., to GTE Laboratories Incorporated. All-FET digital-to-analog converter. 3,643,253, 2-15-72, Cl. 340-347.
 Blank, Wallace J., to Oshkosh Truck Corporation. Powershift transmission. 3,675,508, 7-11-72, Cl. 74-745.000.
 Blank, Werner Josef; and Koral, Jerry Norman, to American Cyanamid Company. Modified non-gelled alkyd resin composition and process for its preparation. 3,692,717, 9-19-72, Cl. 260-21.000.
 Blank, Werner Joseph: *See—*
 Koral, Jerry Norman; and Blank, Werner Joseph, 3,663,389.
 Blank, Wilbur L. Trailing wheel structure for vehicle-drawn implement. 3,672,701, 6-27-72, Cl. 280-414.500.
 Blankenhorn, Charles F.: *See—*
 Young, Charles W.; and Blankenhorn, Charles F., 3,645,336.
 Blankenship, Curtis E.: *See—*
 Shelton, Damon C.; and Blankenship, Curtis E., 3,635,723.
 Blankenship, Ernest Bayne. Automatic incinerating urinal. 3,649,970, 3-21-72, Cl. 4-131.

- Blankenship, James C., to Goodrich, B. F., Company, The. V-belt and method of making same. 3,682,012, 8-8-72, Cl. 74-231.00r.
- Blankenship, John E.: *See—*
- Scheibe, Harold R.; and Blankenship, John E., 3,700,350.
- Blankenship, Shelby L.: *See—*
- Jensen, Erik; and Blankenship, Shelby L., 3,666,924.
- Blankenstein, Gunter: *See—*
- Kunzel, Hans-Egon; Wolf, Gerhard Dieter; Blankenstein, Gunter; and Nischk, Gunther, 3,671,614.
- Wolf, Gerhard D.; Blankenstein, Gunter; and Nischk, Gunter, 3,676,525.
- Blankley, Clifton John, to Parke, Davis & Company. 4-Phenylindole-1-(and 7)-acetic acids. 3,639,422, 2-1-72, Cl. 260-326.13.
- Blann, William A.: *See—*
- Weggel, Ralph W.; and Blann, William A., 3,644,193.
- Blanshine, Allison W.; and Pucher, Richard A. Two row crop attachment with lower crop gathering means at the center than at the sides. 3,670,482, 6-20-72, Cl. 56-98.000.
- Blanton, Elmer L.: *See—*
- Brown, Marion L., Jr.; Green, Albert W.; and Blanton, Elmer L., 3,647,412.
- Blardinelli, Albert J.: *See—*
- Salyer, Ival O.; and Blardinelli, Albert J., 3,655,815.
- Blasbalg, Herman L.; Hayase, Joshua Y.; Crutchfield, Richard C., Jr.; and Najjar, Hann F., to International Business Machines Corporation. Adaptive digital communication system. 3,700,820, 10-24-72, Cl. 179-15.0bv.
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- Blaschke, Franz: *See—*
- Schade, Gerhard; and Blaschke, Franz, 3,651,018.
- Schade, Gerhard; and Blaschke, Franz, 3,697,480.
- Blaschke, Kurt, 25% to Hochstrasser, Elisabeth Geb. Wack, 25% to Hochstrasser, Jorgen and 50% to Stahl-und Apparate Bau Hant Leffer G.m.b.H., Firma. Coupling for pipes. 3,689,113, 9-5-72, Cl. 285-90.000.
- Blase, Emil F.: *See—*
- Willy, John Robert; and Blase, Emil F., 3,688,162.
- Blase, Emil F., to Sangamo Electric Company. Electrolytic capacitor having a heat dissipating center therefor. 3,670,210, 6-13-72, Cl. 317-230.
- Blase, Manfred: *See—*
- Steding, Artur; and Blase, Manfred, 3,689,365.
- Blasenak, David H.: *See—*
- Tucker, Roy G.; Blasenak, David H.; and Johnson, Ralph W., 3,702,607.
- Blaser, Don E.; and Lahn, Gerard C., to Esso Research and Engineering Company. Integrated fluid coking/steam gasification process. 3,694,346, 9-26-72, Cl. 208-127.000.
- Blaser, Eric: *See—*
- Shih, I-Kao; and Blaser, Eric, 3,655,329.
- Blaser, Harry, to Von Roll AG. Press. 3,643,592, 2-22-72, Cl. 100-214.
- Blaskovits, Pavel: *See—*
- Smitmajer, Zdenek; Blaskovits, Pavel; Krajmer, Anton; and Jekas, Jiri, 3,666,909.
- Blass, Ischajahu. Rotary water sprinklers. 3,653,597, 4-4-72, Cl. 239-204.
- Blaszky, Paul E.: *See—*
- Riebling, Eugene F.; Blaszky, Paul E.; and Smith, Dennis W., 3,650,779.
- Blatchford, Chas. A., & Sons Limited: *See—*
- Webb, Frank Allan; and Shorter, John Jeffrey, 3,670,341.
- Blatchford, John K.; Peterson, Edward C.; and Burda, Jan C., to Whirlpool Corporation. Method of making a heating element. 3,679,473, 7-25-72, Cl. 117-212.000.
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- Blatchley, William R.: *See—*
- Douaihy, Sarkis; Renz, John F.; Blatchley, William R.; and Stahl, Terry W., 3,636,445.
- Blatherwick, Delbert T. Platen for vacuum holding of sheet material. 3,693,924, 9-26-72, Cl. 248-363.000.
- Blatt, Leland F. Dual grip automation jaw swivel assembly. 3,635,514, 1-18-72, Cl. 294-106.
- Blatt, Leland F. Shielded air hose swivel with safety push button disconnect. 3,640,553, 2-8-72, Cl. 285-277.
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- Blatt, Leland F. Pressure safety release industrial air exhaust silencer. 3,675,733, 7-11-72, Cl. 181-37.000.
- Blatt, Leland F. Dual plunger actuated sealed combination safety and interlock switch mechanism. 3,676,625, 7-11-72, Cl. 200-153.0la.
- Blatt, Leland F. Cylinder operated power clamp. 3,702,185, 11-7-72, Cl. 269-32.000.
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- Blatt, Leland Francis; and Wiesenhofer, Frank H. Silencer with frequency separating and modulating baffle. 3,675,734, 7-11-72, Cl. 181-56.000.
- Blatt, Leland Francis; and Wiesenhofer, Frank Henry. Safety silencer air nozzle. 3,698,510, 10-17-72, Cl. 181-36.00a.
- Blatt, William F.; Agranat, Edward A.; and Rigopoulos, Peter N., to Amicon Corporation. Blood fractionating process and apparatus for carrying out same. 3,705,100, 12-5-72, Cl. 210-23.000.
- Blatter, Albert, to Bendix Corporation, The. Fluidic viscometer. 3,678,733, 7-25-72, Cl. 73-54.000.
- Blatter, Herbert Morton: *See—*
- Lucas, Robert Armistead; and Blatter, Herbert Morton, 3,655,895.
- Lucas, Robert Armistead; and Blatter, Herbert Morton, 3,691,179.
- Mizzoni, Renat Herbert; and Blatter, Herbert Morton, 3,671,512.
- Mizzoni, Renat Herbert; and Blatter, Herbert Morton, 3,674,794.
- Rosen, Melvin Harris; De Stevens, George; and Blatter, Herbert Morton, 3,634,413.
- Rosen, Melvin Harris; and Blatter, Herbert Morton, 3,639,614.
- Rosen, Melvin Harris; and Blatter, Herbert Morton, 3,644,632.
- Rosen, Melvin Harris; and Blatter, Herbert Morton, 3,692,794.
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- Blatter, Johannes Reinier, to U.S. Philips Corporation. Cathode-system in which the cathode is supported by prestressed wires. 3,681,643, 8-1-72, Cl. 313-337.000.
- Blatter, Max. Apparatus for reconditioning liquids contaminated with microorganisms. 3,682,314, 8-8-72, Cl. 210-199.000.
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- Schobinger, Ulrich; Christoffel, Cla; and Berner, Kurt, 3,637,407.
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- Blattmann, Henri; Javellaud, Jean; and Yerouchaimi, David, to Commissariat a l'Energie Atomique. Composite walls for MHD-generator ducts. 3,660,701, 5-2-72, Cl. 310-11.000.
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- Blattner, Hans: *See—*
- Schindler, Walter; and Blattner, Hans, 3,641,056.
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- Stevens, David; and Blau, Donald Z., 3,666,283.
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- Meyer, Erwin; Brendel, Klaus-Dieter; Blau, Hans; and Stoof, Gerhard, 3,647,022.
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- Williams, Loren, 3,638,540.
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- Witt, Enrique R.; and Blay, Jorge A., 3,644,507.
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- Bala, Mitchell J.; and Blecherman, Sol S., 3,667,421.
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- Keddeinis, Heinrich; Lenz, Arnold; Bleh, Otto; and Termin, Erich, 3,682,828.
- Langenhoff, Ferdinand; Termin, Erich; Bleh, Otto; and Lenz, Arnold, 3,684,433.
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- Scholl, Ronald F.; and Bleha, William P., Jr., 3,699,374.
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- Bleiman, Lewis W., to SLI Industries. Head positioning apparatus. 3,646,536, 2-29-72, Cl. 340-174.1.
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- Bleckicki, Henry Thomas: *See—*
- Moran, Raymond Michael, Jr.; and Bleckicki, Henry Thomas, 3,639,657.
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- Harth, Helmut; Rau, Karl; and Wagner, Helmar R., 3,689,638.
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- Blenkarn, Kenneth A., to Amoco Production Company. Vertically moored platforms. 3,648,638, 3-14-72, Cl. 114-5.
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- Shim, Benjamin K. C.; Blenner, Donald R.; Dudek, Thomas J.; and Hafner, William F., 3,634,299.
- Blessin, Louis Dewey: *See—*
- Ackermann, Harry John; Blessin, Louis Dewey; Hermann, Leroy Nicholas; Ririe, Max Henry; and Swinbank, Everett John, 3,693,593.
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- Blessinger, James E.: *See—*
- Slaats, Mathew A.; and Blessinger, James E., 3,681,507.
- Blessings, Inc.: *See—*
- Alpert, Robert J., 3,635,523.
- Zipf, Frederick W., III, 3,646,624.
- Bletcher, James H.; and Rauh, Jack K., 10% to Bletcher, Ralph E., trust of; deceased, 5% to Robertson, Frederick, 5% to Robertson, Gary, 5% to Bucknell, Lenora, 10% to Bletcher, Richard J., 5% to Liston, Marcia; trustee for Liston, Daniel E., 5% to Liston, Carol Ann, 5% to Liston, James H., 10% to Brondum, Hazel, 10% to Bletcher, Pearl, 15% to Liston, Marcia and 10% to Bucknell, Ernest H. Quick disconnect. 3,684,190, 8-15-72, Cl. 239-428.500.
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- Bletcher, James H.; and Rauh, Jack K., 3,684,190.
- Bletcher, Ralph E., trust of; deceased: *See—*
- Bletcher, James H.; and Rauh, Jack K., 3,684,190.
- Bletcher, Richard J.: *See—*
- Bletcher, James H.; and Rauh, Jack K., 3,684,190.
- Bletz, Howard W.: *See—*
- Gerich, Anton J.; Bletz, Howard W.; and Wilfing, Merle P., 3,707,199.
- Bletz, Howard W., to Therm-O-Disc, Incorporated. Adjustable thermostat. 3,676,817, 7-11-72, Cl. 337-347.000.
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Bley, Erich. Combination manual and hydraulic arbor press. 3,686,922, 8-29-72, Cl. 72-441.000.

Bley, Roland: *See—*
Simon, Peter, 3,643,424.

Bleyle, Donald L.: *See—*
Selfe, Richard J.; and Bleyle, Donald L., 3,650,339.

Bleyle, Merrill, to Grace, W. R., & Co. Scale prevention agents of methacrylic acid-vinyl sulfonate copolymers for saline water evaporation. 3,682,224, 8-8-72, Cl. 159-47.00r.

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Merkle, Eberhardt, 3,696,764.

Blezat, Jean; and Dumont, Daniel. Process for canning fruits. 3,682,662, 8-8-72, Cl. 99-186.000.

BLH Electronics, Inc.: *See—*
Laimins, Eric, 3,707,270.

Senour, Donald A., 3,667,041.

Blickstein, Martin J.: *See—*
Newman, Richard J.; Mittler, Martin A.; and Blickstein, Martin J., 3,679,940.

Bliem, Franz: *See—*
Barnebl, August C.; Bliem, Franz; and Kus, Ernst R., 3,642,142.

Bliemeister, Louis W. Apparatus for producing metal shot. 3,677,669, 7-18-72, Cl. 425-6.000.

Bliler, Marion D.: *See—*
Brown, Charles W.; Bliler, Marion D.; and Breuel, Jerry F., 3,699,904.

Bliley, Ward L., to International Telephone and Telegraph Corporation. Fully insulated quick disconnect. 3,673,549, 6-27-72, Cl. 339-220.00r.

Blinchikov, Alexandr Lvovich: *See—*
Nekrasov, Nikolai Nikolaevich; Blinchikov, Alexandr Lvovich; Kazansky, Vasily Leonidovich; Besedin, Alexandr Fedorovich; Krikunenko, Anatoly Filippovich; Makarov, Egor Maximovich; Zemskov, Alexei Lavrentievich; Afinogenov, Fridrikh Ivanovich; Kirichenko, ergei Pavlovich; and Kulikov, Alexei Andreevich, 3,681,003.

Blindheim, Ulf: *See—*
Bergem, Normann; Blindheim, Ulf; Onsager, Olav-Torgeir; and Wang, Hagbarth, 3,652,687.

Blinne, Charles F. Apparatus and method for inserting casing beneath roadbeds. 3,656,563, 4-18-72, Cl. 175-22.

Blinov, Alexander Vasilievich: *See—*
Adaev, Evgeny Ivanovich; Blinov, Alexander Vasilievich; Kamaria, Georgy Mikirtychevich; Alexandrovich, Novoselov Viktor; and Yakimenko, Leonid Markovich, 3,685,121.

Blinov, Alexander Vasilievich: *See—*
Adaev, Evgeny Ivanovich; Blinov, Alexander Vasilievich; and Kamarian, Georgy Mikirtychevich, 3,645,878.

Blinov, Konstantin Andreevich: *See—*
Andreev, Pavel Alexeevich; Blinov, Konstantin Andreevich; Gremilov, Dmitry Ivanovich; Kanaun, Boris Izrailevich; Kanaev, Andrei Andreevich; Aslanian, Gurken Nazarovich; Paramonov, Pavel Mikhailovich; Panshin, Boris Mikhailovich; Sobolev, Sergei Petrovich; and Shubenko-Shubin, Leonid Alexandrovich, 3,693,599.

Bliss & Laughlin Industries, Inc.: *See—*
Skupas, John A.; and Godwin, Robert H., 3,703,020.

Bliss & Laughlin Industries, Incorporated: *See—*
Ciepley, Ted, 3,703,683.

Hippach, Wilburn L., 3,638,806.

Bliss & Laughlin Industries, Incorporated, mesne: *See—*
Appel, Arthur V.; Davis, John S.; and Pontarelli, Donald E., 3,694,285.

Bliss and Laughlin Industries, Incorporated: *See—*
Ciepley, Ted, 3,681,807.

Ciepley, Ted, 3,681,813.

Bliss, E. W., Company: *See—*
Hill, Frank W.; Bartlett, Peter G.; and Clark, Larry K., 3,699,512.

Lagarde, Roe H.; and Murphy, Clarke, Jr., 3,653,098.

Bliss, Frederick R., Jr., to Time Incorporated. Method of controlling the transverse basis weight of a paper web using multiple individually adjustable flow channels and apparatus thereof. 3,649,445, 3-14-72, Cl. 162-212.

Bliss, Joseph A.: *See—*
Hancock, James L.; and Bliss, Joseph A., 3,691,415.

Bliss, Richard T.; and Nason, George L., to Bliss-Pack, Inc. Shrink film package, and apparatus and method for making same. 3,660,962, 5-9-72, Cl. 53-30.

Bliss, William W. Water pressure fingernail cleaning unit. 3,691,577, 9-19-72, Cl. 15-21.00r.

Bliss-Hill, Herbert Brian: *See—*
Halkyard, Harold Lees; Bliss-Hill, Herbert Brian; and Tewsley, William, 3,693,168.

Bliss-Pack, Inc.: *See—*
Bliss, Richard T.; and Nason, George L., 3,660,962.

Blissel, John J.: *See—*
Finkelstein, Leo; and Blissel, John J., 3,639,108.

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Blitz, Daniel, to Sanders Associates, Inc. Fail-safe mechanical timer. 3,677,101, 7-18-72, Cl. 74-112.000.

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Blixt, S. Stefan; and Andersson, Dag Martin, to International Standard Electric Corporation. Circuit arrangement for the presentation of waveforms on viewing screens utilizing raster deflection. 3,685,662, 8-22-72, Cl. 340-324.00a.

Blizard, Horace A., to Mosler Safe Company, The. Time delay combination locks. 3,702,551, 11-14-72, Cl. 70-269.000.

Bliznjuk, Valentin Ivanovich: *See—*
Tupolev, Andrei Nikolaevich; Tupolev, Alexei Andreevich; Cheremukhin, Georgy Alexeevich; Bliznjuk, Valentin Ivanovich; Pukhov, Alexandr Leonidovich; Svischev, Georgy Petrovich; Bjushgens, Georgy Sergeevich; and Mikeladze, Vitaly Georgievich, 3,677,502.

Bljumberg, Erna Albertovna; Bobolev, Alexandr Vasilievich; Boboleva, Svetlana Pavlovna; and Emanuel, Nikolai Markovich. Method of producing propylene oxide, propyleneglycol and its esters. 3,674,813, 7-4-72, Cl. 260-348.5.

Bloc, Jean A.: *See—*
Sollogoub, Nicolas; and Bloc, Jean A., 3,704,064.

Bloch, Heinz P., to Esso Research and Engineering Company. Non-contacting seal for centrifuge inlet. 3,702,704, 11-14-72, Cl. 277-134.000.

Bloch, Herman S., to Universal Oil Products Company. Hydrorefining of coke-forming hydrocarbon distillates. 3,654,129, 4-4-72, Cl. 208-48.

Bloch, Herman S.; and Lester, George R., to Universal Oil Products Company. Preparation of primary alcohols. 3,660,503, 5-2-72, Cl. 260-617.

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Bloch, James E., to Control Data Corporation. Winding fixture. 3,646,658, 3-7-72, Cl. 29-205.

Bloch, Paul, to La Telephonie Industrielle et Commerciale "Telic". Miniature electromagnetic relay. 3,688,229, 8-29-72, Cl. 335-151.000.

Bloch, Rene; Bauer, Robert; and Phillips, Ben F., to Miles Laboratories, Inc. Metal ion detecting membrane. 3,635,679, 1-18-72, Cl. 23-230.

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Blocher, Clarence J., to Miller, Frank, & Sons, Inc. Sawdust material with quaternary ammonium halide odor-retardant. 3,632,514, 1-4-72, Cl. 252-88.

Bloching, Helmut, to Henkel & Cie G.m.b.H. Color-stable liquid detergent containing disinfectants. 3,700,601, 10-24-72, Cl. 252-105.000.

Block, Aleck, to Merit Abrasive Products, Inc., mesne. Rotary abrasive device. 3,648,417, 3-14-72, Cl. 51-334.

Block, Aleck, to Merit Abrasive Products, Inc. Abrasive pack with anchor assembly. 3,678,633, 7-25-72, Cl. 51-337.000.

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Block, Burton Peter; Nannelli, Piero Luigi; Gillman, Hyman David; and Thomas, Paula Marion, to Pennwalt Corporation. Chromium(III) and iron(III) hydroxy bis(phosphinate) and bis(arsinate) polymers. 3,663,460, 5-16-72, Cl. 260-2.

Block, Delbert W.: *See—*

Burmaster, Neal C.; Harbolt, Bruce A.; and Block, Delbert W., 3,661,190.

Block, Donald Edmund; and Alexakis, Nicholas George, to Digital Data Systems, Inc., mesne. Method and apparatus for the transmission of acquired data in the form of magnitude representing signals and signals representing changes of scale of magnitude. 3,652,210, 7-4-72, Cl. 340-172.500.

Block Drug Company, Inc.: *See—*
Rosenthal, Murray W., 3,657,413.

Block Engineering, Inc.: *See—*
Hirschfeld, Tomas; and Matsu, Noboru, 3,697,226.

Block, Ernest P., to Sun Oil Company. Laminate bonded with an adhesive waxy telomer of ethylene on pseudocumene. 3,666,618, 5-30-72, Cl. 161-235.000.

Block, Fred B.: *See—*
Clarke, Frank H., Jr.; Block, Fred B.; and Kofron, William G., 3,639,407.

Block, Fred B.; and Schroder, Arthur H. 1-Oxygenated-6-acyl-1,2,3,4,5,6-hexahydro-2, 6-methano-3-benzocines. 3,687,957, 8-29-72, Cl. 260-293.540.

Block, George P., to Carstens Health Industries, Inc., mesne. Folding walker. 3,658,079, 4-25-72, Cl. 135-45.

Block, Hans-Jurgen: *See—*
Netzer, Theodor; and Block, Hans-Jurgen, 3,676,233.

Block, Irwin H.: *See—*
Altman, Murray; Craig, Mordecai R.; and Block, Irwin H., 3,640,010.

Block, Jacob: *See—*
McKenney, Robert Lee, Jr.; and Block, Jacob, 3,673,101.

Patil, Arvind S.; Ieraus, John W.; and Block, Jacob, 3,677,939.

Block, James P., to LCOA Laminating Company of America. Laminated board and method of making same. 3,700,341, 10-24-72, Cl. 408-1.000.

Block, Leonard A.; and Dunn, William J., to Quaker Industries Inc. Shelving structure. 3,677,416, 7-18-72, Cl. 211-148.000.

Block, Lester W. Adjustable swim and sun suit panty garment. 3,654,630, 4-11-72, Cl. 2-67.

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Block, Michael J., to Union Oil Company of California. Method for producing insoluble sulfur. 3,689,227, 9-5-72, Cl. 23-293.000.

Block, Seymour S.: *See—*
Schuller, Walter H.; Minor, Jacob C.; Block, Seymour S.; and Lawrence, Ray V., 3,636,215.

Takeda, Hiroshi; Schuller, Walter H.; Lawrence, Ray V.; and Block, Seymour S., 3,663,593.

Takeda, Hiroshi; Schuller, Walter H.; Lawrence, Ray V.; and Block, Seymour S., 3,706,762.

Block, William M.: *See—*
Barnes, Robert L.; Block, William M.; and Grafstein, Daniel, 3,671,489.

Blocker, Edwin W.: *See—*
Paul, Roy D.; and Blocker, Edwin W., 3,658,581.

Blockhead, Inc.: *See—*
Friedman, Morris, 3,658,174.

Blockils, Inc.: *See—*
Cunningham, Gerald A., 3,705,708.

Blockley, Walter Vincent: *See—*
Friedlander, Sidney Lee; and Blockley, Walter Vincent, 3,643,463.

Blockley, Walter Vincent. Electrode apparatus for exercisor handlebar. 3,702,113, 11-7-72, Cl. 128-2.06e.

Blodger, John D.; and MacGugan, Ian, to Wyandotte Chemicals Corporation. Shrinkproofing wool fabrics. 3,657,002, 4-18-72, Cl. 117-141.

Blodgett, Norman S.: *See—*
Haines, William B., 3,635,441.

Blodgett, Stewart B. Method and apparatus for controlling product charge weights. 3,643,752, 2-22-72, Cl. 177-122.

Blodgett, William Edward: *See—*
Wallick, Claude Rollin, Jr.; Blodgett, William Edward; and Lazor, Donald Keith, 3,664,799.

Bloedel, MacMillan Limited: *See—*
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Bloemer, John W., to Eaton Yale & Towne, Inc. Automatic precharge adjuster. 3,672,402, 6-27-72, Cl. 138-31.000.

Blohm & Voss AG: *See—*
Krakow, Heinz; and Niedorf, Carl, 3,698,622.

Blohm, Thomas R.: *See—*
Palopoli, Frank P.; Blohm, Thomas R.; and Kariya, Takashi, 3,647,863.

Tilford, Charles H.; Blohm, Thomas R.; and MacKenzie, Robert D., 3,641,155.

Blohm, William A., to Mi Con Gunite Equipment, Inc. Compressible tube valve. 3,693,932, 9-26-72, Cl. 251-6.000.

Bloice, John Anthony, to Memco (Electronics) Limited. Detection of movement in confined spaces. 3,691,556, 9-12-72, Cl. 343-5.0pd.

Blok, Petrus; and Viersma, Taco Jan. Equipment for aiding cardiovascular circulation. 3,654,918, 4-11-72, Cl. 128-33.

Blom, Bengt Gordon Teodor: *See—*
Kalb, Lennart Reinhold; Olsson, Karl Gustav; and Blom, Bengt Gordon Teodor, 3,641,960.

Blom, Dirk; Van Overbeek, Adrianus Johannes Wilhelmus Maric; and Zwijsen, Wilhelmus Antonius Joseph Marie, to U.S. Philips Corporation. Linear amplifier circuit. 3,678,404, 7-18-72, Cl. 330-22.000.

Blom-Bakke, Arne. Aircraft instruments. 3,668,933, 6-13-72, Cl. 73-386.000.

Blomberg, Erling G. E. Arrangement in flexible fences for enclosing impurities floating on water. 3,686,870, 8-29-72, Cl. 61-1.00f.

Blomberg, Erwin L., to General Mills, Inc. Whip topping. 3,656,972, 4-18-72, Cl. 99-139.

Blomberg, Peter Erik; and Enger, Lars Sivert, to Aktiebolaget Electrolux. Absorption refrigeration apparatus of the inert gas type. 3,681,938, 8-8-72, Cl. 62-490.000.

Blomberg, Richard N., to Du Pont de Nemours, E. I., and Company. Poly(1,4-benzamide) particles and the preparation thereof. 3,652,510, 3-28-72, Cl. 260-78.

Blomberg, Richard N., to Du Pont de Nemours, E. I., and Company. Chain terminated polyhexamethylene adipamide. 3,684,775, 8-15-72, Cl. 260-78.00r.

Blomberger Holzindustrie B. Hausmann KG: *See—*
Hausmann, Bernhard, 3,654,010.

Blome, Eugene R.: *See—*
Zinniel, Francis R.; Blome, Eugene R.; and Kimball, Philip D., 3,637,639.

Blome, Eugene R., to Fairchild Camera and Instrument Corporation. Multilayer antireflective absorption film. 3,698,928, 10-17-72, Cl. 117-45.000.

Blomenkamp, Robert W.; and Klein, Enrique J., said Blomenkamp assor. to said Klein, Enrique J. System for automatically sensing and indicating the acceleration and deceleration of a vehicle. 3,634,792, 1-11-72, Cl. 340-52.

Blomfield, Rodney A., to Diamond Shamrock Corporation. Anti soil redeposition composition for drycleaning. 3,707,508, 12-26-72, Cl. 252-162.000.

Blomgren, Evert: *See—*
Apstein, Maurice; Blomgren, Evert; Keehn, George R.; Andrews, Laurence M.; and Rabinow, Jacob, 3,698,323.

Blomgren, Oscar C., Jr.: *See—*
Blomgren, Oscar C., Sr.; and Blomgren, Oscar C., Jr., 3,670,606.

Blomgren, Oscar C., Jr., to Inter-Probe, Inc. Electrostatic fuel filter. 3,697,411, 10-10-72, Cl. 204-302.000.

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Blommendaal, Ronald, to Christiaan Huygenslaboratorium N.V. Direction finding device. 3,670,332, 6-13-72, Cl. 343-16.00r.

Blommers, Elizabeth, to Koppers Company, Inc. Reinforced foam polystyrene laminate. 3,676,284, 7-11-72, Cl. 161-93.000.

Blomquist, Alfred P.; Kaza, Kameswar R.; and Egrikavuk, Ismail Y., to Chrysler Corporation. Hydrodynamic transmission. 3,631,744, 1-4-72, Cl. 74-868.

Blomquist, Arnold W., to Sci-Med, Inc., mesne. Detection system for insecticides. 3,675,490, 7-11-72, Cl. 73-425.000.

Blomquist, Bo Sergius B., to Hyresgasternas Sparkasse-och Byggnadsforeningars Riksförbund u.p.a. Method of joining corners between plastic-covered wound sections. 3,657,037, 4-18-72, Cl. 156-92.

Blomqvist, Nils Verner: *See—*
Croon, Ingemar Liss-Albin; and Blomqvist, Nils Verner, 3,700,549.

Grafstrom, Stig Olof; and Blomqvist, Nils Verner, 3,645,456.

Blonar, James A. Body tilting mechanism. 3,689,108, 9-5-72, Cl. 280-438.00a.

Blondel, Alain; and Jammet, Jean-Firmin, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Electrochemical cells with lithium anode. 3,663,721, 5-16-72, Cl. 136-6.000.

Blonder, Fred D.: *See—*
Higginbotham, Roy F.; Blonder, Fred D.; and Snyder, David E., 3,639,730.

Blonsky, Joseph E., to American Pulpwood Association. Grapple. 3,637,250, 1-25-72, Cl. 294-88.

Blonsky, Joseph E., to American Pulpwood Association. Tree harvesting device and method. 3,698,457, 10-17-72, Cl. 144-34.00r.

Blood, Alden E.: *See—*
Albers, Kenneth H.; Blood, Alden E.; and Snapp, Thomas C., Jr., 3,652,501.

Snapp, Thomas C.; and Blood, Alden E., 3,645,941.

Snapp, Thomas Carter, Jr.; Blood, Alden E.; and Hagemeyer, Hugh John, Jr., 3,701,798.

Blood, Lewis H. Sling and board for carrying canoes, small boats and outboard motors. 3,659,760, 5-2-72, Cl. 224-25.

Blood, Ned: *See—*
Lov, William L.; and Blood, Ned, 3,653,116.

- Blood, Raymond; and Strong, Barry Colin, to William Cotton Limited. Straight bar knitting machines. 3,641,789, 2-15-72, Cl. 66-96.
- Bloodgood, John F.: See—
Anger, Ernest G.; Richards, Giles J.; Bloodgood, John F.; and Geiger, Roy J., 3,686,556.
- Bloom, Albert, to Industrial Dyestuff Company. Diazo-oxides of sulfonic acid amides and/or esters and photographic element and use thereof. 3,687,663, 8-29-72, Cl. 96-33.000.
- Bloom, Carl, to Worthington Compressor and Engine International; division of Worthington Corporation. Suction pressure relieving system for a rotary vane compressor. 3,632,231, 1-4-72, Cl. 417-295.
- Bloom, Carl, to Worthington Corporation. Multistage liquid and gas separator. 3,654,748, 4-11-72, Cl. 55-322.
- Bloom, Carl, to Worthington Corporation. Multistage liquid and gas separator. 3,707,068, 12-26-72, Cl. 55-337.000.
- Bloom, Dalton E.: See—
Lee, Jimmy D., 3,637,019.
- Bloom, Duane N.: See—
Stevens, Douglas N.; Bisque, Ramond E.; and Bloom, Duane N., 3,644,094.
- Bloom Engineering Company, Inc.: See—
Brungraber, Louis E.; and Rudin, Walter, 3,647,194.
- Rudin, Walter, 3,688,760.
- Bloom, John A.: See—
Wakefield, Gene F.; Reedy, Carl D., Jr.; and Bloom, John A., 3,637,320.
- Bloom, John A.; Spruill, Durward L.; and Wakefield, Gene F., to Texas Instruments, Incorporated. Apparatus for forming a refractory coating on the inner periphery of a tubular object. 3,654,895, 4-11-72, Cl. 118-48.
- Bloom, Joseph Lewis, to Lucas, Joseph, (Industries) Limited. Bel-lows unit. 3,653,300, 4-4-72, Cl. 92-13.2.
- Bloom, Leonard: See—
Rebold, Jerome L., 3,653,377.
- Bloom, Leonard, to Black and Decker Manufacturing Company, The. Power-operated lawnmower with improved discharge means. 3,667,199, 6-6-72, Cl. 56-320.200.
- Bloom, Martin S., to Imperial Chemical Industries Limited. Lapping and aligning of profiled sheets. 3,693,966, 9-26-72, Cl. 271-1.000.
- Bloom, Melvin S.; and Merrill, Stewart H., to Eastman Kodak Company. Polyaryalkane-terminated, solvent-resistant polycarbonate resins as photoconductors. 3,660,083, 5-2-72, Cl. 96-1.500.
- Bloom, Ray Albert: See—
Whisler, Howard E.; Shah, Bhupendra Umedchand; Jeskey, Gerald Vernon; and Bloom, Ray Albert, 3,703,924.
- Bloom, Robert W.: See—
Clark, Alonzo R.; and Bloom, Robert W., 3,657,523.
- Bloom, Roy C.: See—
Eldridge, Merle K.; Bloom, Roy C.; and Joseph, Douglas C., 3,671,248.
- Bloom, Stanley L., to Peerless Industries, Inc. Pipe joint. 3,682,503, 8-8-72, Cl. 285-345.000.
- Bloom, Stanley M.: See—
Land, Edwin H.; Bloom, Stanley M.; and Farney, Leonard C., 3,704,126.
- Bloom, Stanley M.; and Lambert, Ronald F., to Polaroid Corporation. Process for preparing (2,5-dihydroxyphenyl) diphenyl phosphine. 3,644,530, 2-22-72, Cl. 260-606.5.
- Bloom, Stanley M., to Polaroid Corporation. Photographic processes and products using 4,8-diamino substituted 1,5-naphthoquinone dye developers. 3,666,469, 5-30-72, Cl. 96-66.
- Bloom, Stanley M.; and Garcia, Paulina P., to Polaroid Corporation. Novel dipyrromethene dyes. 3,691,161, 9-12-72, Cl. 260-240.700.
- Bloom, Stanley M.; Borrer, Alan L.; Huyffer, Paul S.; and Macgregor, Paul T., to Polaroid Corporation. Diffusion transfer photographic processes and elements utilizing pH-sensitive agents to prevent fogging by extraneous actinic radiation during development. 3,702,244, 11-7-72, Cl. 96-3.000.
- Bloom, Stanley Morton, to Polaroid Corporation. Plastic optical elements. 3,687,862, 8-29-72, Cl. 252-300.000.
- Bloom, William M., to Allegheny Ludlum Steel Corporation. Apparatus for quenching coils. 3,662,997, 5-16-72, Cl. 266-6.
- Bloom, William M., to Allegheny Ludlum Industries, Inc. Conveyor roll. 3,677,394, 7-18-72, Cl. 198-127.000.
- Bloomer, David John, to Hawker Siddeley Dynamics Limited. Automatic test equipment utilizing a matrix of digital differential analyzer integrators to generate interrogation signals. 3,694,632, 9-26-72, Cl. 235-150.530.
- Bloomer, Richard: See—
Serrie, Shelagh; Mc Grady, Seamus; and Bloomer, Richard, 3,680,229.
- Bloomer, Ward J.: See—
Sze, Morgan C.; Bauer, William V.; Long, Raymond H.; Bloomer, Ward J.; and Whitehead, Richard T., 3,642,465.
- Bloomer-Fiske, Inc.: See—
Neubeck, William H., Jr., 3,674,163.
- Bloomfield, David P.; and Olsson, William J., to United Aircraft Corporation. Combined water removal and hydrogen generation fuel cell powerplant. 3,649,360, 3-14-72, Cl. 136-86.
- Bloomfield, George Vincent, to Brico Engineering Limited. Fuel injection systems for internal combustion engines. 3,705,572, 12-12-72, Cl. 123-139.0aw.
- Bloomfield, Harold; and Purpura, August C., to Bloomfield Industries, Inc. Decanter lid assembly. 3,632,025, 1-4-72, Cl. 222-472.
- Bloomfield, Harold; and Roberts, Melvin F., to Bloomfield Industries, Inc. Utility wheel-bearing carts. 3,698,735, 10-17-72, Cl. 280-47.350.
- Bloomfield Industries, Inc.: See—
Bloomfield, Harold; and Purpura, August C., 3,632,025.
- Bloomfield, Harold; and Roberts, Melvin F., 3,698,735.
- Bloomfield, John J. Stratfield-charge engine and fuel injection-injection plug therefor. 3,665,902, 5-30-72, Cl. 123-32.0st.
- Bloomfield, Roger D., to Uniflo Systems Company. Valve for levitated vehicle track. 3,685,788, 8-22-72, Cl. 251-28.000.
- Bloomfield Valve Corporation: See—
Wolfson, Joseph, 3,677,286.
- Bloomquist, Arnold Eugene: See—
Slagel, Robert Clayton; and Bloomquist, Arnold Eugene, 3,654,994.
- Bloomquist, Evert V.; and Bloomquist, Gerald E. Key lock assembly for a pair of relatively movable members. 3,679,246, 7-25-72, Cl. 287-52.050.
- Bloomquist, Gerald E.: See—
Bloomquist, Evert V.; and Bloomquist, Gerald E., 3,679,246.
- Bloomquist, Wilburn M.: See—
Sabatka, Winston E.; Bloomquist, Wilburn M.; and Reinke, Raymond W., 3,643,670.
- Blore, James H., to Phillips Fibers Corporation. Panty-hose. 3,701,164, 10-31-72, Cl. 2-224.00r.
- Blosch, Walter, to Liss S.A. Method for producing dials. 3,677,793, 7-18-72, Cl. 117-38.000.
- Blose, James H.; Pinell, William F.; and Talvalkar, Shashikant G., to National Cash Register Company, The. Thermal transfer medium for producing scratch and smudge resistant marks. 3,663,278, 5-16-72, Cl. 117-234.000.
- Blose, James H.; and Talvalkar, Shashikant G., to National Cash Register Company, The. Heat sensitive record material. 3,674,535, 7-4-72, Cl. 117-36.800.
- Blose, John B. Communications system for electric power utility. 3,702,460, 11-7-72, Cl. 340-150.000.
- Blose, Werner, to Schlegel Manufacturing Company, The. Edge protector, moulding or beading. 3,685,231, 8-22-72, Cl. 52-716.000.
- Blosser, Robert W.; and Richard, Gordon L. Welding aid attachment. 3,662,148, 5-9-72, Cl. 219-136.
- Blossick, Raymond B.; and Meier, Robert A., to Armstrong Cork Company. Chemical machining process. 3,668,029, 6-6-72, Cl. 156-11.
- Blossom, Armond L.: See—
Goodgion, James C.; and Blossom, Armond L., 3,656,470.
- Goodgion, James C.; and Blossom, Armond L., 3,685,577.
- Blossom, Frank M., to Donnelley, Reuben H., Corporation. Envelope window holder for an inserter and method. 3,667,189, 6-6-72, Cl. 53-29.
- Blossom, Raymond W.; and Charkey, Allen, to Yardney International Corporation. Method of making an alkaline impregnated electrode. 3,655,451, 4-11-72, Cl. 136-126.
- Blouch, Eric L.: See—
Berger, John M.; Blouch, Eric L.; and Walton, Richard S., 3,701,249.
- Bloudoff, Peter S., to Armco Steel Corporation. Friction anchor for fluid operated downwell pumps. 3,666,378, 5-30-72, Cl. 417-358.
- Blough, Arthur K.: See—
Goss, Norman P., 3,689,251.
- Blough, Ronald S.; and Curry, Norval, to Fairfield Engineering & Manufacturing Company. Livestock confinement house with improved environmental control. 3,677,229, 7-18-72, Cl. 119-16.000.
- Blough, Ronald S., to Fairfield Engineering & Manufacturing Company. Livestock drinking device. 3,677,231, 7-18-72, Cl. 119-75.000.
- Blount, Charles, Jr.; and Crandall, Nelson, to United Piece Dye Works, The. Winch apparatus for treating material in strand form. 3,640,102, 2-8-72, Cl. 68-176.
- Blount, Elmo M., to Mobil Oil Corporation. Process for maintaining thermal conductivity of insulation in permafrost completion. 3,642,065, 2-15-72, Cl. 166-244.
- Blount, Elmo M.; Snively, Earl S., Jr.; Messenger, Joseph U.; and Prueger, Nicolas J., to Mobil Oil Corporation. Permafrost completion. 3,677,340, 7-18-72, Cl. 166-1.000.
- Blount, Elmo M.; and Prueger, Nicolas J., to Mobil Oil Corporation. Well completion systems. 3,695,358, 10-3-72, Cl. 166-302.000.
- Blount, Floyd E.; and Allen, Wallace B., to Mobil Oil Corporation. Cathodic protection system and delay-activation anode. 3,689,395, 9-5-72, Cl. 204-197.000.
- Blount, George W., to New Century Products, Inc. Hinged cover construction for a water closet. 3,670,441, 6-20-72, Cl. 4-236.000.

- Blount, Lester L.; and Thomas, Leonard L. Smoker's withdrawal kit. 3,636,960, 1-25-72, Cl. 131-187.
- Blount, Richard, to General Electric Company. Mounting bracket for photographic flashguns. 3,636,342, 1-18-72, Cl. 240-52.1.
- Blount, Walter H., to Midland-Ross Corporation. Bleeding seal. 3,686,866, 8-29-72, Cl. 60-54.60r.
- Blouri, Byouk: See—
Rumpf, Paul; and Blouri, Byouk, 3,705,926.
- Blout, Bennett O., to Amsted Industries Incorporated. Projected area fluid spring or actuator. 3,633,899, 1-11-72, Cl. 267-122.
- Blow, Robert H., Jr., to General Motors Corporation. Timer-operated car starter. 3,685,606, 8-22-72, Cl. 180-114.000.
- Blow-Knox Foundry & Mill Machinery, Inc.: See—
Feuer, Michael M.; and Kotler, Richard G., 3,679,150.
- Blower Application Company: See—
Panning, Artin R., 3,685,437.
- Blower, Warren A.; Janke, Gilbert J.; and Abraham, Edward D., to Sherwin-Williams Company, The. Rotatable cantilevered shell molding machine. 3,682,230, 8-8-72, Cl. 164-165.000.
- Blowers, William L., to Kollmorgen Corporation. Temperature-controlled integrated circuits. 3,703,651, 11-21-72, Cl. 307-310.000.
- Bloxwick Lock and Stamping Company Limited, The: See—
Morris, Barry S., 3,661,412.
- Blu-Ray, Incorporated: See—
McPherson, Patrick F., 3,683,310.
- Blubaugh, Robert L.; Ruckle, Robert A.; and Watts, Hubert J., to Continental Oil Company. Method and apparatus for optical alignment of industrial equipment. 3,704,522, 12-5-72, Cl. 33-286.000.
- Blucher, Reinhart, to U.S. Philips Corporation. Method and circuit arrangement for the recognition of characters. 3,668,636, 6-6-72, Cl. 340-146.3ae.
- Blue, Donald E. Portable band saw. 3,668,961, 6-13-72, Cl. 83-201.040.
- Blue Giant Equipment of Canada Limited: See—
Larsen, Kurt K., 3,638,961.
- Blue, James W.; Smith, Wayne R.; and Sodd, Vincent J., to United States of America, National Aeronautics and Space Administration. Production of high purity ¹³³I. 3,694,313, 9-26-72, Cl. 176-11.000.
- Blue, Louis D., to Essex Chemical Corporation. Bobbin sleeve for winding of textile fibers. 3,643,888, 2-22-72, Cl. 242-118.32.
- Blue M Electric Company: See—
Bare, Duward J.; and Penk, Chester S., 3,632,985.
- Blue, Philip L., to Mallory, P. R., & Co., Inc. Method of making electrical contact materials. 3,685,134, 8-22-72, Cl. 29-420.500.
- Blueberry Equipment, Inc.: See—
Patzlaff, Albert W., 3,703,072.
- Bluegate Candle Company: See—
Mathews, Mitzi R., 3,649,151.
- Bluem, Gary Raymond: See—
Crow, Herman L.; Lu Conic, Andrew; Maloney, Patrick Martin; and Bluem, Gary Raymond, 3,643,048.
- Lu Conic, Andrew; Maloney, Patrick Martin; and Bluem, Gary Raymond, 3,643,049.
- Bluem, Gary Raymond, to Kroy Industries, Inc. Roller-band device with over-center means. 3,651,291, 3-21-72, Cl. 200-67.
- Bluemke, John A. Preparation of cheese and pie fillings. 3,666,493, 5-30-72, Cl. 99-139.000.
- Blues, Ernest T.: See—
Bryce-Smith, Derek; and Blues, Ernest T., 3,647,720.
- Bluestein, Allen C.; and Grossman, Richard F., to Reichhold Chemicals, Inc. Polymetric compositions and method of preparation. 3,661,877, 5-9-72, Cl. 260-86.7.
- Bluestein, Bernard B., to Sunbeam Corporation. Steaming apparatus with removable brush. 3,675,449, 7-11-72, Cl. 68-222.000.
- Bluestein, Bernard R.: See—
Muller, Thomas C.; Nelson, Lawrence B.; and Bluestein, Bernard R., 3,657,347.
- Bluestein, Bernard R.; and Solomon, Jack M., to Witco Chemical Company, Inc. Vapor phase process for production of N,N'-disubstituted piperazines. 3,647,795, 3-7-72, Cl. 260-268.
- Bluestein, Claire: See—
Clark, John R.; and Bluestein, Claire, 3,654,323.
- Bluestone, Henry: See—
Retallick, Lawrence A.; Limpel, Lawrence E.; and Bluestone, Henry, 3,663,664.
- Bluthman, Robert G.; Goldsberry, Paul E.; McConnell, Robert L.; and Simpson, Jack W., to International Business Machines Corporation. Proportional spacing visual editing system. 3,654,609, 4-4-72, Cl. 340-172.5.
- Bluthman, Robert G.; and Simpson, Jack W., to International Business Machines Corporation. Visual editing system incorporated controls for justifying and dejustifying displayed text. 3,654,611, 4-4-72, Cl. 340-172.5.
- Bluhm, Herbert J.; and Fluck, Eugene R., to Reynolds, R. J., Tobacco Company, Inc. 1,3,3,4,4-pentastituted pyrrolidines. 3,674,806, 7-4-72, Cl. 260-326.8.
- Blum, Adolph: See—
Rivkind, Leo E.; and Blum, Adolph, 3,667,687.
- Blum, Albert. Submersible pump assembly. 3,635,606, 1-18-72, Cl. 417-360.
- Blum, Albert. Submersible pump assembly. 3,685,926, 8-22-72, Cl. 417-424.000.
- Blum, Alfred: See—
Milutin, Ivan Cutakovic; Bartell, Charles; and Blum, Alfred, 3,681,105.
- Blum, Alvin S., to Ohio Nuclear, Inc. Method and apparatus for determining volume of a lung. 3,695,254, 10-3-72, Cl. 128-2.080.
- Blum, Arthur B.: See—
Davis, James R.; and Blum, Arthur B., 3,678,978.
- Blum, Bernard; and Schwartzberg, John W., to Leeds & Northrup Company. Carbon content measurement in a basic oxygen furnace. 3,640,119, 2-8-72, Cl. 73-23.
- Blum, Bernard Saul; and Kohn, Marvin Lee, to United Aircraft Corporation. Diffusion bonding method. 3,680,197, 8-1-72, Cl. 29-487.000.
- Blum, Conrad C., to Bommer Spring Hinge Co., Inc. Hold open assembly for checking floor hinge. 3,702,015, 11-7-72, Cl. 16-55.000.
- Blum, Heinrich: See—
Bartsch, Friedrich; and Blum, Heinrich, 3,643,315.
- Blum, James; and Johnson, Robert P., to Bell & Howell Company, mesne. Precision positioning tool. 3,638,934, 2-1-72, Cl. 269-311.
- Blum, James E., to Cybercom Corporation. Magnetic tape apparatus. 3,667,701, 6-6-72, Cl. 242-192.
- Blum, Josef, to Sorvall, Ivan, Inc. Cryogenic microtome apparatus. 3,680,420, 8-1-72, Cl. 83-167.000.
- Blum, Josef, to Sewall, Ivan, Inc. Automatic filling apparatus for cell washing centrifuge. 3,706,413, 12-19-72, Cl. 233-26.000.
- Blum, Joseph M.; and Hoekstra, Jan P., to International Business Machines Corporation. Method for alloying metals in the presence of reactive materials. 3,668,025, 6-6-72, Cl. 148-178.000.
- Blum, Julius, Messrs.: See—
Rock, Erich, 3,676,898.
- Blum, Michael J., to Beckman Instruments, Inc. Differential capacitance circuitry for differential pressure measuring instruments. 3,688,190, 8-29-72, Cl. 324-61.00r.
- Blum, Paul; Lefrancois, Jacques; and Vinarnick, Louis, to Commissariat a l'Energie Atomique and Societe Lyonnaise de Plomberie Industrielle. Neutron-absorbing material and method of manufacture. 3,705,101, 12-5-72, Cl. 252-478.000.
- Blum, Samuel E.; Foster, Luther M.; and Plaskett, Thomas S., to International Business Machines Corporation. Group III-V semiconductor twinned crystals and their preparation by solution growth. 3,642,443, 2-15-72, Cl. 23-204.
- Blumber, Hans: See—
Wahlen, Werner; and Blumber, Hans, 3,673,920.
- Blumberg, Baruch S.; and Millman, Irving, to Institute for Cancer Research, The. Vaccine against viral hepatitis and process. 3,636,191, 1-18-72, Cl. 424-89.
- Blumberg, Shmaryahu: See—
Katchalski, Ephraim; Goldstein, Leon; Levin, Yehuda; and Blumberg, Shmaryahu, 3,650,901.
- Katchalski, Ephraim; Goldstein, Leon; Levin, Yehuda; and Blumberg, Shmaryahu, 3,706,633.
- Levin, Yehuda; Blumberg, Shmaryahu; Katchalski, Ephraim; and Goldstein, Leon, 3,650,900.
- Blumbergs, John H.; Finley, Joseph H.; and Rizzo, John J., to FMC Corporation. Preparation of sodium polymaleate. 3,637,609, 1-25-72, Cl. 260-78.4.
- Blumbergs, John H.; and Mac Kellar, Donald G., to FMC Corporation. Microorganism control. 3,684,477, 8-15-72, Cl. 71-67.000.
- Blumbergs, John H.; and Menieks, Paul R., to FMC Corporation. Sodium maleate peroxyhydrate. 3,691,139, 9-12-72, Cl. 2-78.40r.
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Horgan, William J., Jr., 3,633,389.
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- Horgan, William J., Jr., 3,670,537.
- Blumcraft of Pittsburgh, Pa.: See—
Horgan, William J., Jr., 3,696,648.
- Blume, Hans-Juergen C., to United States of America, National Aeronautics and Space Administration. Parametric amplifiers with idler circuit feedback. 3,663,886, 5-16-72, Cl. 330-4.5.
- Blume, Roe C.; and Seufert, Ludwig E., to Du Pont de Nemours, E. I., and Company. Process for producing phenol-aldehyde resin fibers. 3,651,199, 3-21-72, Cl. 264-236.
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Bader, Henry; and Boag, Alexander, 3,655,764.
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Knutson, Carroll F.; and Boardman, Charles Robert, 3,674,313.
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Krieger, Robert G., Sr., 3,688,008.
- Bobear, William Joseph, to General Electric Company. Organopolysiloxane elastomer compositions. 3,660,345, 5-2-72, Cl. 260-375.
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- Boblitt, Russell D., to Martin-Marietta Corporation. Depottable polyurethane form. 3,634,342, 1-11-72, Cl. 260-2,5.
- Bobo, Melvin, to General Electric Company. Combustion apparatus. 3,648,457, 3-14-72, Cl. 60-39,74.
- Bobo, Powell O., to Westinghouse Electric Corporation. Regulator apparatus responsive to generator output power factor and voltage. 3,634,750, 1-11-72, Cl. 322-20.
- Bobo, Roy A. Rotating cyclone centrifuge. 3,648,840, 3-14-72, Cl. 209-211.
- Bobo, Stephen N.: *See—*
De Falco, Frank A.; and Bobo, Stephen N., 3,666,949.
- Bobolev, Alexandr Vasilievich: *See—*
Bljumberg, Erna Albertovna; Bobolev, Alexandr Vasilievich; Boboleva, Svetlana Pavlovna; and Emanuel, Nikolai Markovich, 3,674,813.
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Shavel, John, Jr.; and Bobowski, George, 3,646,109.
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Cowan, Arnold A., 3,701,552.
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Boujon, Gerard, 3,679,316.
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Wyatt, James Andrew Stewart; Chapman, Clifford Victor Gascayne; Solt, George Stefan; and Mullet, Sidney George, 3,679,059.
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Redel, Joseph; and Boch, Jean Baptiste Christian, 3,676,499.
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Marshall, Edwin L.; Bocian, Harvey; and Hauptman, Neil L., 3,702,027.
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Zinn, Leon; and Bocin, Milton, 3,652,867.
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Schmalfeld, Paul; Janssen, Heinrich; Bock, Burkhard; Peters, Werner; and Ahland, Erwin, 3,674,449.
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Oertel, Gunter; Holtschmidt, Hans; Dollhausen, Manfred; and Bock, Eugen, 3,707,486.
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Rottner, Emil; Bock, Franz; Muth, Willi; and Wenzel, Gunter, 3,678,146.
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Gerke, Peter; Rutkowski, Karl; and Bock, Helmuth Joachim, 3,655,922.
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Bock, Ernst; Majewski, Martin; and Bartels, Wilhelm, 3,653,246.
Bock, Ernst, 3,656,374.
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Munch, Josef, 3,639,927.
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Rehhauser, Frederick V.; Earnest, Elmer Dean; Bock, Robert V.; Gerbstadt, Frederick H.; and Monck, James J., 3,665,421.
Trost, Joseph C.; Bock, Robert V.; Gerbstadt, Frederick H.; Graham, William J.; Miles, Wilson D.; and Questa, Charles R., 3,675,209.
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Fetting, Fritz; Bockhorn, Henning; and Herberitz, Hans-Adolf, 3,661,494.
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Ryall, Michael Leslie; Pezzani, Guido; and Bocking, Albert, 3,692,426.
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Wastenson, Erik Goran; and Bockstiegel, Georg Heinrich Artur Gerhard, 3,704,115.
- Boda, Robert A., to Leach Company. Vehicle loader. 3,662,908, 5-16-72, Cl. 214-83,3.
- Bodach, Charles M.: *See—*
Hwa, Chih M.; Bodach, Charles M.; and Schroeder, C. D., 3,666,404.
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- Bodanszky, Miklos, to Squibb, E. R., & Sons, Inc. Amino acid derivatives. 3,704,246, 11-28-72, Cl. 260-333,000.
- Boddy, Harold Albert, to Ralphs Unified Limited. Shoe upper drafting apparatus. 3,638,263, 2-1-72, Cl. 12-8,8.
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Schedler, Wolfgang; and Bodem, Johann, 3,696,707.
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Winkelmann, Herbert E.; and Bodem, Roy C., 3,693,209.
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Baumgartner, Siegfried; Kindler, Hubert; Lidl, Rolf; and Boden, Heinrich, 3,674,398.
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Antonelli, Joseph A.; and Boden, Herbert, 3,632,516.
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- Boden, Knut Folke Ingemar, to Elektriska Svetsningsaktiebolaget. Welding wire advancing unit. 3,684,152, 8-15-72, Cl. 228-57.000.
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Buchholz, Hans-Dieter; and Reerink, Hans-Peter, 3,633,854.
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- Gesler, Hans G., 3,662,976.
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Bader, Gottfried, 3,648,033.
- Matejka, Edgar, 3,697,776.
- Schwarz, Karlhans, 3,676,843.
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Braun, Klaus; Manthey, Kurt; and Welz, Bernhard, 3,702,219.
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- Paatzsch, Peter, 3,666,420.
- Spreitzhofer, Ernst, 3,634,770.
- Wiedeking, Elmar, 3,671,129.
- Witte, Wolfgang; and Stenz, Herbert, 3,664,742.
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Kubitzek, Harry; Essig, Karl-August; Von Falkai, Bela; Reichle, Alfred; and Bodesheim, Ferdinand, 3,664,914.
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Enderbrock, Edward N.; and Bodine, Charles M., 3,687,546.
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Fischer, Vincent A., 3,646,396.
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Seitz, Charles A.; and Bodine, Winston M., 3,683,589.
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Bodolay, William A.; and Bodolay, Stephen M., 3,638,784.
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Von der Eltz, Hans-Ulrich; Jeths, Johannes; and Boecker, Alfons Bernhard, 3,672,815.
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Kuhn, Konrad; and Boedecker, Manfred, 3,687,297.
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Workman, William Jr.; Boeger, James H.; and Bishop, Robert E., 3,657,964.
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- Winter, Werner; Fauland, Erich; Stach, Kurt; Schmidt, Felix Helmut; and Aumuller, Walter, 3,646,009.
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Ost, Walter; Thomas, Klaus; Jerchel, Dietrich; and Linden, Gerbert, 3,641,062.
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- Schring, Richard, 3,639,540.
- Weber, Karl-Heinz; Merz, Herbert; Zeile, Karl; Giesemann, Rolf; and Danneberg, Peter, 3,660,381.
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Becher, Heinz-Manfred; and Schring, Richard, 3,655,717.
- Berg, Alex; Eberhardt, Hans; Machleidt, Hans; Wildfeuer, Alexander; and Goeth, Hanns, 3,635,998.
- Eberlein, Wolfgang; Heider, Joachim; Machleidt, Hans; and Engelhardt, Gunther, 3,644,330.
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- Eibl, Hansjorg; and Westphal, Otto, 3,694,474.
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- Freter, Kurt; Gotz, Manfred; Oliver, James T.; and Zeile, Karl, 3,635,974.
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- Kruger, Gerd; Zipp, Otmir; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigrid, 3,661,903.
- Mentrup, Anton; Schromm, Kurt; Zeile, Karl; and Thoma, Otto, 3,657,244.
- Nickl, Josef; Engel, Wolfhard; Eckenfels, Albrecht; Seeger, Ernst; and Engelhardt, Gunther, 3,655,743.
- Ohnacker, Gerhard; Daniel, Helmut; and Machleidt, Hans, 3,691,173.
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- Stricker, Herbert, 3,684,448.
- Walther, Gerhard; Bauer, Rudolf; Schulz, Werner; and Sirnenberg, Walther, 3,703,523.
- Weber, Karl-Heinz; Bauer, Adolf; Merz, Herbert; and Minck, Klaus, 3,678,033.
- Weber, Karl-Heinz; Zeile, Karl; Giesemann, Rolf; and Danneberg, Peter, 3,683,348.
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- Wieler, Theodor; Konz, Wilhelm; Faesel, Jurgen; and Lewalter, Jurgen, 3,705,887.
- Woitun, Eberhard; and Reuter, Wolfgang, 3,661,908.
- Zaimis, Eleanor; and Hanington, Edda, 3,666,861.
- Zeile, Karl; Schulz, Werner; Banholzer, Rolf; and Wick, Helmut, 3,681,500.
- Boehringer Mannheim Gesellschaft mit beschränkter Haftung: See—
Winter, Werner; Thiel, Max; Stach, Kurt; Schaumann, Wolfgang; Dietmann, Karl; and Juhran, Wolfgang, 3,652,568.
- Boehringer Mannheim G.m.b.H.: See—
Beaucamp, Klaus, 3,639,211.
- Berger, Herbert; Stach, Kurt; Dold, Otto; Voemel, Wolfgang; and Sauer, Winfriede, 3,658,796.
- Berger, Herbert; Gall, Rudi; Merdes, Hartmut; Stach, Kurt; Voemel, Wolfgang; and Sauer, Winfriede, 3,704,301.
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- Bergmeyer, Hans Ulrich; Gruber, Wolfgang; Moellering, Hans; and Thum, Waldemar, 3,645,851.
- Bergmeyer, Hans Ulrich; Haid, Erich; Nelboeck-Hochstetter, Michael; and Pelz, Otmir, 3,662,037.
- Bergmeyer, Hans Ulrich; Naher, Gotthilf; Thum, Waldemar; Lauerer, Albert; and Emmer, Rudolf, 3,677,901.
- Fauland, Erich; Kampe, Wolfgang; Thiel, Max; Juhran, Wolfgang; Dietmann, Karl; and Stork, Harald, 3,706,728.
- Haid, Erich; and Weimann, Gunter, 3,642,772.
- Haid, Erich; and Nelboeck-Hochstetter, Michael, 3,707,536.
- Jaworek, Dieter, 3,707,137.
- Lauer, Karl; Budka, Heinz-Gunter; and Stoeck, Georg, 3,686,117.
- Popelak, Alfred; Lerch, Ansgar; Stach, Kurt; Roesch, Egon; and Hardebeck, Klaus, 3,665,002.
- Rey, Hans-Georg; Wielinger, Hans; and Rieckmann, Peter, 3,668,076.
- Stork, Harald; and Schmidt, Felix Helmut, 3,645,692.
- Voigt, Hans; Stoeck, Georg; Gosewinkel, Werner; and Kusch, Theodor, 3,684,573.
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Alberti, John; and Weber, Franz, 3,693,919.
- Baldinger, Charles P., 3,666,944.
- Burton, George M.; Christensen, Gerald M.; and Pilgrim, Arthur J., 3,657,073.
- Charters, Robert L.; Bartlemay, James M.; Folline, John M.; and Donich, Thomas G., 3,701,120.
- Clarke, David W., 3,639,131.
- Cole, James B., 3,698,668.
- Colebrook, Ross W.; and Ellis, Peter H., 3,650,348.
- Deminet, Czeslaw; Patten, James W.; and Van Der Mark, Hendrik H., 3,633,267.
- Falcioni, Joseph G., 3,634,928.
- Fitzgerald, John M.; and James, Varnell L., 3,687,400.
- Fries, James R., 3,671,967.
- Gannett, James R.; Annin, Gordon D.; and Gjerding, Bradley K., 3,668,622.
- Jenny, Robert W., 3,670,996.
- Kostroun, Vaclav; and Quenzler, Henry H. W., 3,645,479.
- Krogstad, Reuben S.; and Vali, Victor, 3,639,063.
- Lang, John M.; and Trautman, Robert D., 3,698,679.
- Layton, John E., 3,671,970.
- Lee, Shi K., 3,671,951.

- Leonard, Donald E., 3,670,988.
 Maroshick, Max, 3,641,833.
 Miller, Charles C.; and Rumberger, William E., 3,686,926.
 Montgomery, Gary D., 3,659,115.
 Mulkey, Owen R.; Kleingartner, Charles A.; and Zoutte, Arnold A., 3,665,458.
 Orr, LaVern G.; and Yutani, Nobuo, 3,704,506.
 Parr, Robert A., 3,667,862.
 Reed, Donald A., 3,638,885.
 Schmitt, Hubert A., 3,702,087.
 Schmitt, Hubert A., 3,702,088.
 Skidmore, Wallace E.; Syltebo, Bjarne E.; and Viall, Wilton S., 3,664,612.
 Stapleton, Brian P.; and Sutton, Robert W., 3,662,392.
 Taylor, Frederick M., 3,666,209.
 Trautman, Robert D., 3,693,920.
 Weed, Willard N., 3,667,680.
 Worden, John R.; and Kratzke, Albert W., 3,654,809.
 Wright, Charles P., 3,704,442.
 Boek, Helmut, to Messerschmitt-Bolkow-Blohm G.m.b.H. Auxiliary air intake for air and spacecraft engines. 3,667,703, 6-6-72, Cl. 244-53.000.
 Boeker, Justin R.: See—
 Bastone, Andrew L.; Boeker, Justin R.; and Klimpl, Fred E., 3,655,468.
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 Boelens, Harmannus: See—
 Van der Linde, Leendert Maarten; and Boelens, Harmannus, 3,681,263.
 Boelke, Gilbert L., to GTE Sylvania Incorporated. Frequency synthesizer apparatus. 3,694,766, 9-26-72, Cl. 331-11.000.
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 Boer, Karl W. Light beam deflection method and apparatus. 3,704,935, 12-5-72, Cl. 350-150.00r.
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 Boeri di A.G. Boer & C.: See—
 Vicentini, Giorgio; and Console, Giulio, 3,705,687.
 Boerio, Alvin H.: See—
 Goetze, Gerhard W.; and Boerio, Alvin H., 3,657,596.
 Boerma, Michael J., to Outboard Marine Corporation. Internal combustion engine exhaust gas discharge system. 3,695,238, 10-3-72, Cl. 123-65.00e.
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 Boersma, Sipko L.: See—
 Hendley, Dennis Alfred; and Boersma, Sipko L., 3,699,558.
 Boertje, Arie Leendert; and Philpott, Peter John, to Lever Brothers Company. Apparatus for frying food pieces. 3,696,735, 10-10-72, Cl. 99-404.000.
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 Boesten, Wilhelmus H. J.; and Suverkroop, Geertrudes H., to Stam-icarbon N.V. Optical separation of methionine nitrile. 3,683,002, 8-8-72, Cl. 260-465.500.
 Boeters, Karl-Ernst; Conzelmann, Gerhard; Streit, Klaus; and Fleischer, Hans-Joachim, to Bosch, Robert, G.m.b.H. Circuit arrangement for generating a signal and for suppressing voltage peaks. 3,662,228, 5-9-72, Cl. 317-148.50r.
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 Boettcher, Gordon E., to United States of America, Atomic Energy Commission. Cold cathode vacuum discharge tube with cathode discharge face parallel with anode. 3,663,855, 5-16-72, Cl. 313-178.000.
 Boettcher, Richard W. Jack or lift mechanism and drive therefor. 3,679,174, 7-25-72, Cl. 254-45.000.
 Boettger, Richard M.: See—
 Marotta, Nicholas G.; Zwiercan, Gary A.; and Boettger, Richard M., 3,652,294.
 Boettner, Raymond C.: See—
 Brown, Edgar E.; and Boettner, Raymond C., 3,660,177.
 Boetto, Charles: See—
 Connor, Donald E.; and Boetto, Charles, 3,664,434.
 Boetto, Charles; Stufflebeam, John F.; and Artman, Noel G., to International Harvester Company. Rotary cultivator wheel. 3,653,449, 4-4-72, Cl. 172-548.
 Boetto, Charles; and Orkiszewski, Wayne L., to International Harvester Company. Hydraulic alternator. 3,677,348, 7-18-72, Cl. 172-2.000.
 Boffa, Gioacchino; Crotti, Argento; Pieri, Giampiero; Mangini, Angelo; and Tundo, Antonio, to Montecatini Edison S.p.A. 6,15 Dialkox 5,14 diaza isoviolanthron. 3,678,053, 7-18-72, Cl. 260-272.000.
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 Bofringer, Wilhelm, Mobilwerkstätten: See—
 Mehnert, Klaus, 3,685,466.
 Bogachenko, Alexei Georgievich: See—
 Zuev, Ivan Mikhailovich; Gorsky, Anatoly Vasilievich; Medovar, Boris Izrailevich; Anenko, Joly Georgievich Emely; Latashi, Jury Vadimovich; and Bogachenko, Alexei Georgievich, 3,687,189.
 Bogachenko, Alexsey Georgievich: See—
 Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; and Bogachenko, Alexsey Georgievich, 3,665,080.
 Bogaerts, Leo C.; and Weinberger, George W., to Ammco Tools, Inc. Variable speed ratio transmission. 3,670,584, 6-20-72, Cl. 74-199.000.
 Bogan, Richard T.: See—
 Combs, Robert L.; and Bogan, Richard T., 3,668,157.
 Bogan, Simeon, 20% to Mensch, Elizabeth P. Combustion controlling anti-pollution device. 3,653,364, 4-4-72, Cl. 123-3.
 Bogar, Jerry Hench, to AMP Incorporated. Connector for interconnection of symmetrical and asymmetrical transmission lines. 3,705,379, 12-5-72, Cl. 339-177.00r.
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 Bogert, Robert C.: See—
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 Boggian, Umberto: See—
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 Boggs, Charles L., to International Paper Company. Laminated board structure and method of making same. 3,677,868, 7-18-72, Cl. 161-37.000.
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 Boggs, Albert, 3,646,464.
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 Boggs, Weldon C. Safety controls for deep fat fryers. 3,688,683, 9-5-72, Cl. 99-330.000.
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 Anello, Louis G.; Boghosian, Edward Michael; Jones, Edward S.; Minhas, Pritam S.; Price, Alson K.; and Sweeney, Richard F., 3,651,105.
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 Bogomolov, Alexei Sergeevich. Method for linear acceleration of heavy charged particles and device for its realization. 3,651,417, 3-21-72, Cl. 328-233.
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 Bogosian, Theodore Oscar. Elastomeric oil slick boom. 3,685,296, 8-22-72, Cl. 61-1.00f.
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 Bogsten, Anders Richard. Drill, particularly a so-called deep hole drill or gun boring drill. 3,701,606, 10-31-72, Cl. 408-59.000.
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 Herbst, John A., 3,704,414.
 Bogue, John C.: See—
 Bogue, John C.; and Sarbacher, Robert I. (said Sarbacher assor. to said), 3,666,961.
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 Plumat, Emile; Bohain, Pierre; and Servais, Albert, 3,683,848.
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 Bohemen, John, to BP Chemicals Limited. Stabiliser system. 3,702,830, 11-14-72, Cl. 252-404.000.
 Bohemia Lumber Company, Inc.: See—
 Stewart, Faye H., 3,652,029.
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 Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,686,265.
 Bohle, Friedrich: See—
 Bernhardt, Jost; and Bohle, Friedrich, 3,685,069.
 Bohler & Weber K.G.-Maschinenfabrik-Augsburg: See—
 Hauser, Paul; Pfister, Walter; Stucki, Hans Ulrich; Teuwen, Heinz; Fuhring, Heinrich; and Sieber, Johannes Helmut, 3,665,734.
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- Bohm, Friedrich, to Metallschlauchfabrik Joseph Ulbrich & Co. Machine for the production of tubing. 3,670,544, 6-20-72, Cl. 72-49,000.
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- Bohna, B. D., & Company, Inc.: *See—*
- Rubin, Allen G., 3,635,669.
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- Bohne, Frederick G.; and Johnson, Mark O., to Conax Corporation. Method of making electrical penetrant structure. 3,680,208, 8-1-72, Cl. 29-624.000.
- Bohner, Beat; and Gubler, Kurt, to Ciba-Geigy Corporation. O,O-diethyl-O-[1-methyl-3-phenyl-s-triazolyl-(5)] phosphorothioate. 3,689,500, 9-5-72, Cl. 260-308.00r.
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- Bohner, Thomas H.; and Vaillancourt, Vincent L., to Bard, C. R., Inc. Method of packaging between laminated webs with heat and ultrasonic seals. 3,651,615, 3-28-72, Cl. 53-28.
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- Bohorquez, Luis A.: *See—*
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- Bohrer, Thomas C., to Celanese Corporation. Process and apparatus for start-up of fiber-spinning solutions. 3,651,194, 3-21-72, Cl. 264-169.
- Bohrer, Thomas C.; and Champ, Antony E., to Celanese Corporation. Process for preparing acrylonitrile polymer solution. 3,655,857, 4-11-72, Cl. 264-206.
- Bohrer, Thomas C.; and Chen, David H. T., to Celanese Corporation. Two-stage drawing process for polybenzimidazole fiber. 3,657,411, 4-18-72, Cl. 264-290.
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- Boie, Immo: *See—*
- Schulte, Walter; Boie, Immo; Mader, Helmut; and Otto, Rigobert, 3,684,515.
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- Boik, Arnold R.; and Holk, Albert J., Jr. Single operation rivet. 3,690,706, 9-12-72, Cl. 287-20.300.
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- Boileau, Louis, to Atlantic Games Limited. Simulated golf board game apparatus. 3,658,339, 4-25-72, Cl. 273-134.
- Boin, Giovanni. Electric lamps for emergency and/or for duty under particular environment conditions, and relative improved lamps. 3,641,336, 2-8-72, Cl. 240-10.6.
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- Achermann, Werner; and Achermann, Franz, 3,669,067.
- Bokovoy, Ronald D.; and Luvisotto, Roy G., 3,690,399.
- Bokovoy, Ronald D., 3,706,350.
- Cook, Charles F., 3,695,506.
- Ehrensing, Alvin T.; and Taylor, Clement R., 3,678,890.
- Hoelzinger, Walther J.; Weninger, Johann; Mayer, Walter; Zoegernitz, Karl; Schroetter, Hermann; and Braun, Werner, 3,669,064.
- Myers, Albert F., 3,706,239.
- Myers, Albert F., Sr., 3,651,907.
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- Boisen, Christian K. F.; deceased (by Boisen, Karen V.; administratrix), to Steiner Company Lausanne S.A. Paper towel dispenser. 3,697,146, 10-10-72, Cl. 312-39.000.
- Boisen, Karen V.: *See—*
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- Boissevain, Mathew G.; and Hill, Robert C., to Measurix Corporation. Enclosure with radiation source having fail safe shutter. 3,697,755, 10-10-72, Cl. 250-106.00s.
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- Taylor, Paul A.; and Boissevain, Thomas A., 3,643,601.
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- Boissier, Jacques Robert: *See—*
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- Boisvert, Conrad J., Jr., to Cogar Corporation. Method for indicating memory chip failure modes. 3,659,088, 4-25-72, Cl. 235-153.
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- Hamilton, Douglas D.; and Boivin, Joseph J. R., 3,642,041.
- Boixen, Heinz: *See—*
- Junk, Dieter; Schlunke, Jurgen; and Boixen, Heinz, 3,672,018.
- Bojan, Paul W.: *See—*
- Wolfberg, Robert L.; and Bojan, Paul W., 3,653,117.
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- Le Poole, Jan B.; Fontijn, Leendert A.; and Bok, Alfred B., 3,638,231.
- Bok, Hendrik F., to EPEC Systems Corporation. Spray gun system for slurry. 3,637,136, 1-25-72, Cl. 239-125.
- Bok, Hendrik F.; and Garcia, David A., to Epec Industries, Inc. Precision coating spray gun. 3,653,594, 4-4-72, Cl. 239-70.
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- Boke, Reinhard; Schmid, Alfred; and Wilke, Heinz, to Bosch, Robert, G.m.b.H. Method for making coils for armatures of electrical machines or the like. 3,643,326, 2-22-72, Cl. 29-605.
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- Reiker, Adolf; and Boklen, Rudolf, 3,636,989.
- Bokov, Jury Sergeevich; Vikulina, Ninel Vladimirovna; Dogadkin, Boris Aristarkhovich; Erofeev, Boris Vasilievich; Larina, Anastasia Vasilievna; Lavrishev, Vadim Petrovich; Markov, Vladimir Vladimirovich; Naumova, Sofia Fadeevna; Jurina, Olga Demidovna; an Yarovaya, Galina Dmitrievna. Negative light-sensitive material. 3,674,496, 7-4-72, Cl. 96-91.00n.
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- Bokovoy, Ronald D., to Boise Cascade Corporation. Fully automatic locking interaxle differential for tandem vehicles. 3,706,350, 12-19-72, Cl. 180-24.090.
- Bokros, Jack C., to Gulf Oil Corporation. Coated article and method for making same. 3,676,179, 7-11-72, Cl. 117-46.0cg.
- Bokros, Jack C.; and Ellis, Willard H., to Gulf Oil Corporation. Method of making a prosthetic device. 3,677,795, 7-18-72, Cl. 117-46.0cg.
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- Boksjo, Carl Ingvar; and Sehman, Bengt Allan, to Allmanna Svenska Elektriska Aktiebolaget. Thyristor with a control device and having several control electrodes. 3,670,217, 6-13-72, Cl. 317-235.00r.
- Bokvist, Kjell; and Ingestrom, Curt Holger, to Aktiebolaget Svenska Icopalfabriken, mesne. Bottom for buildings without basement, and a method of making such bottom. 3,673,750, 7-4-72, Cl. 52-169.000.
- Bol, Jan; Heinze, Werner; Gebhardt, Josef; and Letschert, Werner, to Bundesminister fur Wissenschaftliche Forschung. Method of measuring the concentration and/or size of suspended particles by forward scattering of light. 3,646,352, 2-29-72, Cl. 250-218.
- Bol, Jan; Buttner, Hildegard; and Kuhn, Peter, to Battelle Development Corporation, The. Temperature indicating dispersion filter. 3,677,966, 7-18-72, Cl. 252-408.000.
- Bol, Jan Paul; Gebhart, Joseph; and Seger, Gunther, to Laporte Industries Limited. Method for measuring and/or monitoring the size of particles in suspension. 3,695,765, 10-3-72, Cl. 356-102.000.
- Boland, Bernard W., to Motorola, Inc. Insulated gate field-effect device and method of fabrication. 3,696,276, 10-3-72, Cl. 317-235.00r.
- Boland, Daniel E.; and Craig, Dale E., to Western Electric Company, Incorporated. Spool assemblies. 3,635,421, 1-18-72, Cl. 242-118.6.
- Boland, Daniel Edmund; Dewees, Leonard S.; and Towsley, LeRoy M., to Western Electric Company, Incorporated. Flame retardant textile covered wire. 3,668,302, 6-6-72, Cl. 174-121.00a.
- Boland, Steven H., to Ultra-Violet Products, Inc. Stable glow discharge light source with close temperature control for sharp resonance lines. 3,686,529, 8-22-72, Cl. 315-115.000.
- Bold, Eugene W.: *See—*
- Berkeley, Arnold D.; Bold, Eugene W.; Jefferson, Donald E.; and Zeller, Gerard A., 3,701,972.
- Boldingh, Jan; Heslinga, Lammert; Schmidl, Ernst; and Syrovataka, Rudolf, to Lever Brothers Company. Detergent bleach. 3,686,127, 8-22-72, Cl. 252-99.000.
- Boldt, Manfred: *See—*
- Hornig, Lothar; Arpe, Hans-Jurgen; and Boldt, Manfred, 3,646,111.
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- Boldt, Manfred; Arpe, Hans-Jurgen; and Hornig, Lothar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of oxyacetylation products and optionally hydroxylation products of condensed aromatic compounds. 3,644,866, 2-22-72, Cl. 260-479.
- Boldt, Manfred; Arpe, Hans-Jurgen; and Hornig, Lothar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of phenyl esters and phenol from benzene. 3,651,101, 3-21-72, Cl. 260-410.5.
- Bolduan, Dieter: *See—*
- Markewitz, Wolfgang; and Bolduan, Dieter, 3,678,693.
- Bolduc, Berthelemi J. Paper cutting apparatus. 3,678,581, 7-25-72, Cl. 30-294.000.
- Bolduc, Camilien. Process for the production of granulated materials. 3,649,240, 3-14-72, Cl. 71-64.
- Bolduc, Lee R., to Medical Plastics, Inc. Ground electrode and test circuit. 3,642,008, 2-15-72, Cl. 128-416.
- Bolduc, Lee R., to Medical Plastics, Inc. Electrical connector and plate electrode. 3,699,968, 10-24-72, Cl. 128-303.130.
- Bole, Hamilton B., to American Optical Corporation. Lens blocking apparatus. 3,663,983, 5-23-72, Cl. 51-277.000.
- Bolega, Ulrich: *See—*
- Schulz, Egon; Bolega, Ulrich; and Lang, Johann, 3,684,933.
- Boley, Edward Joseph; and Burns, Joseph Richard, to RCA Corporation. Fabrication of semiconductor devices. 3,646,666, 3-7-72, Cl. 29-577.
- Boley, Edward Joseph, to RCA Corporation. Semiconductor device including fusible elements. 3,699,395, 10-17-72, Cl. 317-101.000.
- Bolen, Hugh R., Jr.; and Wiggins, Charles S., to Magnetic Forming Corporation. Coupling for foldable tubular parts. 3,655,297, 4-11-72, Cl. 416-72.
- Boley, Benjamin Steven, to Thalhimer Brothers, Incorporated. Storage rack for clothes hangers. 3,661,268, 5-9-72, Cl. 211-49.
- Boley, Robert D.; Meyer, Charles F.; Kiessling, Rudolf H.; and Paape, Kenneth L., to Square D Company. Electromagnetically operated solid state timing device. 3,683,301, 8-8-72, Cl. 335-59.000.
- Bolger, Bernard J.: *See—*
- O'Sullivan, Denis J.; and Bolger, Bernard J., 3,699,127.
- Bolger, Bernard Joseph; and O'Sullivan, Denis Joseph. Adhesive compositions comprising 2-cyanoacrylates and heterocyclic compounds. 3,640,972, 2-8-72, Cl. 260-78.4.
- Bolger, James W., to Riker Laboratories, Inc., mesne. Process for the liquefaction of mucus. 3,639,635, 2-1-72, Cl. 424-335.
- Bolger, John G., Jr.; and Walker, Carl A., to Digilux Corporation, mesne. Method and apparatus for automatic scorekeeper. 3,705,722, 12-12-72, Cl. 273-54.00c.
- Bolger, Thomas V., to RCA Corporation. Electronic editing apparatus. 3,646,260, 2-29-72, Cl. 178-6.6.
- Bolhofer, William A., to Merck & Co., Inc. 2-Chlorobenzothiazolecarboxamides. 3,654,296, 4-4-72, Cl. 260-304.
- Bolhofer, William A.; and Baldwin, John J., to Merck & Co., Inc. Substituted quinoxalines. 3,691,166, 9-12-72, Cl. 260-250.00r.
- Bolick, Fred C., Jr.; and Godwin, James B., III, to Lanier Electronic Laboratory, Inc. Control device for a transcribing machine with automatic recall. 3,632,893, 1-4-72, Cl. 179-100.1.
- Boliden Aktiebolag: *See—*
- Bostrom, Karl-Johan, 3,695,373.
- Gorling, Karl Goran, 3,674,462.
- Nilsson, Bruno Yngve, 3,701,940.
- Bolie, Victor W., to Oklahoma State University. Multi-channel signal normalizer. 3,644,676, 2-22-72, Cl. 179-1.

- Bolin, Harold R., to United States of America, Agriculture. Process for concentrating liquid foods. 3,634,128, 1-11-72, Cl. 99-205.
- Bolin, John E.: See—
Asar, Madhu P.; Bolin, John E.; and Maddox, Harry L., 3,644,661.
- Boling, Harry G.: See—
Anderson, Charles M.; and Boling, Harry G., 3,651,923.
- Boling, James Willard. Motorcycle compression release. 3,638,632, 2-1-72, Cl. 123-182.
- Boling, Monte J., to Anderson Machine Works. Dip tube guide arrangement. 3,672,028, 6-27-72, Cl. 29-208.00b.
- Bolinger, Edgar Dare; and Machell, Greville, to Deering Milliken Research Corporation. Modification of cellulosic fibers with ethylenically unsaturated compounds. 3,634,021, 1-11-72, Cl. 8-116.
- Bolinger, John F., to Meridian Industries, Inc. Flasher circuit. 3,639,777, 2-1-72, Cl. 307-202.
- Bolinger, John F., to Meridian Industries, Inc. Flasher circuit with outage indication. 3,646,359, 2-29-72, Cl. 307-202.
- Bolinger, John F., to Meridian Industries, Inc. Transistor flasher with preheat circuit for lamp load. 3,660,674, 5-2-72, Cl. 307-202.
- Bolinger, John F., to Meridian Industries, Inc. Flasher circuit with short protection. 3,684,896, 8-15-72, Cl. 307-202.000.
- Bolitho, Walter J. Broiler. 3,638,634, 2-1-72, Cl. 126-41.
- Boliver, Vincent J., to General Electric Company. Vented fuse module for underground power cable system. 3,678,432, 7-18-72, Cl. 337-201.000.
- Boliver, Vincent J., to General Electric Company. Socket type contact for a fuse holder. 3,678,451, 7-18-72, Cl. 339-258.00r.
- Bolkow Gesellschaft mit beschränkter Haftung: See—
Dederra, Carl-Helmut; and Butter, Karl, 3,690,103.
Kaufmann, Michael, 3,636,712.
Schubert, Johannes; and Fuchs, Rolf, 3,635,030.
Stangl, Arnold, 3,661,346.
- Boll, Dietmar: See—
Reis, Walter; Pfennig, Helmut; and Boll, Dietmar, 3,650,411.
- Boll, Harry Joseph: See—
Berglund, Carl Neil; and Boll, Harry Joseph, 3,660,697.
- Boll, William E. Anti-theft device. 3,665,739, 5-30-72, Cl. 70-237.
- Bolla, Giovanni. Inductor applicable to electric furnaces for metal casting. 3,665,082, 5-23-72, Cl. 13-26.000.
- Bollag, Werner; Ramuz, Henri; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. Process for the manufacture of biguanide derivatives. 3,634,506, 1-11-72, Cl. 260-551.
- Bollard, David Rooksby; and Jenkins, William Alfred, to Ekco Electronics Limited. Airborne pulsed range finding radar. 3,657,719, 4-18-72, Cl. 343-7.
- Boller, John A.: See—
Floh, William P., Jr.; and Boller, John A., 3,646,710.
- Bolles, Milton M., to Deering Milliken Research Corporation. Apparatus for the production of a bonded textile fabric. 3,649,411, 3-14-72, Cl. 156-391.
- Bolles, Theodore F., to Minnesota Mining and Manufacturing Company. Disposable reserve cell with encapsulated electrolyte. 3,653,972, 4-4-72, Cl. 136-90.
- Bollettieri, Jerome; and Dalen, Arne; deceased (by Dalen, June; administratrix). Double bend stave. 3,655,211, 4-11-72, Cl. 280-11.13.
- Bollhoff & Co.: See—
Scheffer, Harry, 3,662,643.
- Bolli, Hans-Ulrich, to Schweizerische Industrie-Gesellschaft. Cutting device with zig-zag knife. 3,638,522, 2-1-72, Cl. 83-345.
- Bolli, Hanspeter, to Sigerist, Carl, and Cie Schaffhausen. Apparatus for opening a swing door. 3,645,042, 2-29-72, Cl. 49-326.
- Bolliand, Robert; and Saligny, Claude, to Societe Rhodiacta-D.A.P.I.D. Process and apparatus for the production of synthetic textile stuffing material. 3,677,855, 7-18-72, Cl. 156-181.000.
- Bolliand, Robert; and Saligny, Claude, to Societe Rhodiacta. Method of preparing a non-woven fibrous web. 3,689,344, 9-5-72, Cl. 156-181.000.
- Bolliand, Robert, to Societe Rhodiacta. Process for the manufacture of a stuffing material. 3,696,185, 10-3-72, Cl. 264-280.000.
- Bollig, George: See—
Hoffmann, Bernd; Bollig, George; and Dopfer, Otto, 3,645,805.
- Bollig, Georg B., to Schloemann Aktiengesellschaft. Dummy bar storage apparatus. 3,661,199, 5-9-72, Cl. 164-274.
- Bollinger, Frederic G.; and D'Amico, John Joseph, to Monsanto Company. Trifluoromethylbenzyl thiolcarbamates as herbicides. 3,687,653, 8-29-72, Cl. 71-94.000.
- Bollinger, Howard N.; and Inglis, Leslie R., to American Hospital Supply Corporation. Caster and swivel lock assembly. 3,636,586, 1-25-72, Cl. 16-35.
- Bollinger, Luther L., Sr.: See—
Hennessy, James J., Jr.; and Bollinger, Luther L., Sr., 3,684,331.
- Bollinger, Luther L., Sr., to Hennessy Products Incorporated. House car plug door control mechanism. 3,636,658, 1-25-72, Cl. 49-362.
- Bollinger, Luther L., Sr., to Hennessy Products, Incorporated. Plug door control mechanism. 3,683,552, 8-15-72, Cl. 49-209.000.
- Bollinger, Pietro; Harri, Eugen; and Sigg, Hans-Peter, to Sandoz Ltd.; a/k/a Sandoz AG. Antibiotic SL 3238 and process for the production of same. 3,655,880, 4-11-72, Cl. 424-122.
- Bollinger, William C., to Detroit Flame Hardening Co. Method forming clad plates from curved surfaces. 3,679,858, 7-25-72, Cl. 219-76.000.
- Bollman, Clifford J., to McDonnell Douglas Corporation. Wire harness jigboard having a plurality of wire retaining pins detachably embedded in spaced woven screen elements. 3,633,096, 1-4-72, Cl. 324-51.
- Bollyky, Laszlo; and Whitman, Robert Henry, to American Cyanamid Company. Phosphine substituted oxalyl chlorides. 3,644,517, 2-22-72, Cl. 260-544.
- Bollyky, Laszlo Joseph, to American Cyanamid Company. Chemiluminescent additives. 3,704,231, 11-28-72, Cl. 252-188.300.
- Bolner, Thomas E., to Thiokol Chemical Corporation. Intersection ingress-egress automatic electronic traffic monitoring equipment. 3,663,937, 5-16-72, Cl. 340-38.00p.
- Bologna, John P.: See—
Bowser, George H.; Shoop, Vernon A.; Pyzewski, Stanley J.; Mazzoni, Renato J.; and Bologna, John P., 3,669,785.
- Bolomon, James E.; and Davis, Walter Richard, to Motorola, Inc. Automatic gain control RF-IF amplifier. 3,684,974, 8-15-72, Cl. 330-30.00d.
- Bolotin, Evgeny Moiseevich: See—
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Burtsev, Pavel Semenovich; Yanchevsky, Kazimir Stanislavovich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich, 3,656,810.
- Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich. Tunnelling shield with jack for vertical adjustment of cutter drum. 3,695,719, 10-3-72, Cl. 299-33.000.
- Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich. Tunnelling shield. 3,695,720, 10-3-72, Cl. 299-33.000.
- Bolotin, Mikhail Mikhailovich: See—
Karakashian, Zaven Oganezovich; Lazarian, Vsevolod Arutjunovich; Azarov, Boris Vasilievich; Bolotin, Mikhail Mikhailovich; Pershin, Vladimir Yakovlevich; Timoshuk, Albert Isidorovich; Dragonenko, Anatoly Alexandrovich; Zarakovich, Ilya Yakovlevich; and Svdirov, Mikhail Vasilievich, 3,656,632.
- Bolster, Keith G. Fireplace grate for burning papers. 3,669,092, 6-13-72, Cl. 126-165.000.
- Bolt, Alfred V.; and Wood, James S., to Aluminum Company of America. Rotatable fixture with positive retention and lifting means. 3,633,540, 1-11-72, Cl. 118-502.
- Bolt Associates, Inc.: See—
Chelminski, Stephen V., 3,646,598.
Chelminski, Stephen V., 3,653,460.
Chelminski, Stephen V., 3,657,917.
- Bolt, Barry F., to Engelhard Hanovia, Inc. Electrical discharge lamp. 3,649,863, 3-14-72, Cl. 313-217.
- Bolt Beranek and Newman Inc.: See—
Allen, Clayton H.; and Heine, John C., 3,640,539.
Frazier, Francis; and Graeber, Ralph P., 3,650,613.
Heine, John C.; Kerwin, Edward M., Jr.; and Gordon, Colin G., 3,666,275.
Scharton, Terry D., 3,686,927.
- Bolt, Gregory L.; Brandt, Charles H.; McLain, Aubrey R.; and Patel, Jayantilal M., to Procter & Gamble Company. The Flavor robusta coffee. 3,640,726, 2-8-72, Cl. 99-68.
- Bolt, Gregory L.; and Strobel, Rudolf G. K., to Procter and Gamble Company. The Coffee extration process. 3,700,463, 10-24-72, Cl. 99-71.000.
- Bolt, Harry Collett. Shower cabinets. 3,646,590, 2-29-72, Cl. 4-146.
- Bolt, Kenneth Dale: See—
Houston, Herbert James; Baird, Robert Gordon; Bolt, Kenneth Dale; and Gretzinger, Adolf, 3,633,858.
- Bolt, Reginald C., to Molins Machine Company Limited. Electronic apparatus. 3,662,272, 5-9-72, Cl. 328-104.
- Bolt, Richard Robert; and Wobbe, Delbert Edmond, to American Can Company. Drawing and ironing process. 3,670,543, 6-20-72, Cl. 72-41.000.
- Bolt, Robert O.: See—
West, William W.; Bolt, Robert O.; and Gordon, Chester D., 3,639,546.
- Bolte, Herbert: See—
Heil, Eduard; Trieschmann, Hans-Georg; Willersinn, Herbert; Bolte, Herbert; and Bronstert, Klaus, 3,676,378.
- Bolte, Ronald P.: See—

- Kunz, Eugene L.; and Bolte, Ronald P., 3,650,293.
- Bolto, Brian Alfred: See—
Weiss, Donald Eric; Bolto, Brian Alfred; and Willis, Donald, 3,645,922.
- Bolton, Anthony Peter, to Union Carbide Corporation. Process for improving the activity of zeolitic catalyst compositions. 3,647,717, 3-7-72, Cl. 252-455.
- Bolton, Benjamin A.: See—
Serres, Carl, Jr.; and Bolton, Benjamin A., 3,691,136.
- Bolton, Benjamin A., to Standard Oil Company. A-I polymer laminates prepared by filament winding. 3,660,193, 5-2-72, Cl. 156-169.
- Bolton, Charles D. Adjustable bridging device. 3,648,425, 3-14-72, Cl. 52-632.
- Bolton, George H.: See—
Welch, Robert W., Jr.; Bolton, George H.; Oliver, John P.; and Wedel, Alfred W., 3,658,366.
- Bolton, Hugh Robert: See—
Laithwaite, Eric Roberts; and Bolton, Hugh Robert, 3,648,084.
- Bolton, Lawrence. Rear view mirror for auto bumpers. 3,698,798, 10-17-72, Cl. 350-307.000.
- Bolton, Michael R.: See—
Bethune, John H.; Tarzi, Clement A.; Bolton, Michael R.; and Rainville, Joseph R., 3,632,718.
- Bolton, Norman A.; and Frielinghaus, Klaus H., to General Signal Corporation. Vehicle traffic control system. 3,651,453, 3-21-72, Cl. 340-42.
- Bolton, Norman A., to General Signal Corporation. Flux nulled wheel detector. 3,697,745, 10-10-72, Cl. 246-249.000.
- Bolton, William Robert Fossey: See—
Ferguson, Colin Campbell; and Bolton, William Robert Fossey, 3,706,352.
- Boltrek, Henry; and Kraft, Joseph K., to Westinghouse Electric Corporation. Modular drive unit for a conveyor. 3,677,388, 7-18-72, Cl. 198-16.000.
- Boltrek, Henry; and Kraft, Joseph K., to Westinghouse Electric Corporation. Modular passenger conveyor construction. 3,707,220, 12-26-72, Cl. 198-16.000.
- Boltz, Charles D., Jr., to RCA Corporation. Optical apparatus for continuous television film projection system. 3,679,827, 7-25-72, Cl. 178-7.200.
- Boltze, Karl-Heinz; and Lorenz, Dietrich, to Troponwerke Dinklage & Co. Quinazolinone derivative and process for the production thereof. 3,652,567, 3-28-72, Cl. 260-256.4.
- Boltze, Karl-Heinz; and Lorenz, Dietrich, to Troponwerke Dinklage & Co. Pharmacologically active quinazolinone compound, its use in pharmacological preparations and process for its preparation. 3,669,967, 6-13-72, Cl. 260-256.40q.
- Boltze, Karl-Heinz; Brendler, Otfried; and Lorenz, Dietrich, to Troponwerke Dinklage & Co. Pharmacologically active esters of N-(3-trifluoromethylphenyl)-anthranilic acid. 3,692,818, 9-19-72, Cl. 260-471.00r.
- Boltze, Karl-Heinz; Brendler, Otfried; and Lorenz, Dietrich, to Troponwerke Dinklage & Co. Pharmacologically active esters and amides of N-(3-trifluoromethylphenyl)-anthranilic acid. 3,694,489, 9-26-72, Cl. 260-471.00r.
- Bolzan, James J., Jr.; and Fromknecht, Charles T. Canister vacuum cleaner with retractable hose. 3,651,536, 3-28-72, Cl. 15-323.
- Bom, Cornelis Johannes Gerardus: See—
Van Der Lely, Ary; and Bom, Cornelis Johannes Gerardus, 3,682,395.
- Bomba, Georg A., 1/2 to Walker, Fred J. Exhaust feedback and control system for internal combustion engines. 3,672,340, 6-27-72, Cl. 123-119.00a.
- Bombara, Giuseppe A., to Centro Sperimentale Metallurgico S.p.A. Acid pickling of stainless steels. 3,694,334, 9-26-72, Cl. 204-145.000.
- Bombardier, Jacques; and Leclerc, Rejean, to Bombardier Limited. Cleat element for tracked vehicles. 3,637,267, 1-25-72, Cl. 305-35.
- Bombardier, Jerome, to Bombardier Limited. Variable speed transmission system and braking means. 3,698,497, 10-17-72, Cl. 180-5.00r.
- Bombardier Limited: See—
Beaudoin, Laurent; and Richer, Sarto, 3,666,323.
Bergeron, Zoel; and Vadeboncoeur, Leo, 3,661,022.
- Bombardier, Jerome, 3,698,497.
- Perreault, Jules; and Southerie, Bertrand, 3,658,392.
- Perreault, Jules, 3,704,918.
- Perreault, Jules; and Lemieux, Claude, 3,707,297.
- Piedboeuf, Georges, 3,693,992.
- Southerie, Bertrand, 3,673,884.
- Bombardier Limited: See—
Bombardier, Jacques; and Leclerc, Rejean, 3,637,267.
- Bomberger, Howard B., Jr.: See—
Finlay, Walter L.; and Bomberger, Howard B., Jr., 3,645,727.
- Bomberger, Howard B., Jr.; and Kessler, Harold D., to RMI Company, mesne. Method and apparatus for converting miscellaneous pieces of reactive metals to a usable form. 3,646,175, 2-29-72, Cl. 264-8.
- Bomberger, Howard B., Jr.; and Seagle, Stanley R., to RMI Company, mesne. Method of improving macrostructure of titanium-base alloy products. 3,679,403, 7-25-72, Cl. 75-175.500.
- Bomco Incorporated: See—
Banks, Neill K., Jr., 3,685,475.
- Banks, Neill K., Jr.; and Standley, Mark L., 3,698,463.
- Bommer, Peter; and Menzi, Hans, to Mettler Instruments AG. Platform balance. 3,674,102, 7-4-72, Cl. 177-256.000.
- Bommer Spring Hinge Co., Inc.: See—
Blum, Conrad C., 3,702,015.
- Bomstein, Ralph A. Waste treatment with microbial nucleoprotein flocculating agent. 3,684,706, 8-15-72, Cl. 210-47.000.
- Bonafide Pattern, Inc.: See—
Babcock, Robert L., 3,653,291.
- Bonafiglia, Joseph C.; and Krieger, Harold, to Rohm & Haas Company. Hair pieces containing fibers of nylon 6, butadiene-styrene copolymer and polyalkyl methacrylate. 3,702,877, 11-14-72, Cl. 260-857.00d.
- Bonafino, Edward J.; Doolittle, Frederick W.; Hayes, Charles U.; and Yarrington, James C., to International Business Machines Corporation. Conveyor system. 3,706,370, 12-19-72, Cl. 198-76.000.
- Bonagura, Ronald: See—
Lysle, Gordon; and Bonagura, Ronald, 3,696,722.
- Bonami, Robert Raoul Charles; Lerouge, Claude Paul Henri; and Strube, Didier Charles, to International Standard Electric Corporation. Non-linear decoder with linear and non-linear ladder attenuators. 3,653,033, 3-28-72, Cl. 340-347.
- Bonanno, Peter J.: See—
Wittes, James M.; and Bonanno, Peter J., 3,680,562.
- Bonasso, Samuel G. Carrying device for garment hangers and the like. 3,633,801, 1-11-72, Cl. 224-45.
- Bonavent, Gerard; Huvey, Michel; and Peinado, Marcel, to Institut Francais du Pétrole des Carburants et Lubrifiants. Device for separating two liquids of different densities in a tank containing these two liquids. 3,680,729, 8-1-72, Cl. 220-22.000.
- Bonavita, Jean Baptiste, to British Petroleum Company Limited. The Recovery of micro-organisms cultivated on hydrocarbons. 3,655,511, 4-11-72, Cl. 195-28.
- Bonazzi, Pericle. Press for rebuilding of tires. 3,697,206, 10-10-72, Cl. 425-20.000.
- Bonci, Adolph. Paint holder for painting with roller. 3,641,616, 2-15-72, Cl. 15-257.06.
- Bond, Donald S., to RCA Corporation. Radio postal system acknowledgement apparatus. 3,641,432, 2-8-72, Cl. 325-4.
- Bond, Donald Spencer, to RCA Corporation. Radio facsimile postal system for multiple addressees. 3,678,180, 7-18-72, Cl. 178-5.000.
- Bond, Donald Spencer, to RCA Corporation. Apparatus for the automatic navigation of a sailing vessel. 3,691,978, 9-19-72, Cl. 114-144.000.
- Bond, James H.: See—
McConnell, Wayne V.; Bond, James H.; and Russin, Nicholas C., 3,663,600.
- Bond, James M. Apparatus facilitating care of a bedfast patient. 3,701,170, 10-31-72, Cl. 4-174.000.
- Bond, Kenneth L.; and Schooley, James A., to Honeywell Information Systems Inc. Data sort method utilizing finite difference tables. 3,662,402, 5-9-72, Cl. 444-1.
- Bond, Leo H. Method of coating a vehicle headlight lens. 3,676,191, 7-11-72, Cl. 117-77.000.
- Bond, Milton F.; and Shattford, John F., to International Business Machines Corporation. Character segmentation using pattern measurements, error rescan and adaptive font determination. 3,694,807, 9-26-72, Cl. 340-146.3sg.
- Bond Stores, Incorporated: See—
Parillo, Vincent, 3,659,721.
- Bond, William D., to World Industries, Inc. Plural cavity toroidal float pool chemical package. 3,677,711, 7-18-72, Cl. 23-267.00a.
- Bondahl, Gary B.: See—
Dunnahoe, Richard G.; Bondahl, Gary B.; and Roth, Paul W., 3,669,741.
- Bondarenko, Edward J., to Commonwealth of Australia. Tip welding means. 3,657,512, 4-18-72, Cl. 219-131.
- Bondarenko, Fedor Alexeevich: See—
Rubinshtein, Sholom Yakovlevich; Babin, Mikhail Artemievich; Gutman, Anatoly Lvovich; Naumenko, Viktor Dmitrievich; Orlov, Evgeny Mikhailovich; Presman, Vladimir Alexandrovich; Maev, Veniamin Evnovich; and Bondarenko, Fedor Alexeevich, 3,678,664.
- Bondarenko, Oleg Petrovich: See—
Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; and Bogachenko, Alexsey Georgievich, 3,665,080.
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- Vitaly Mikhailovich; and Shirshov, Vladimir Grigorievich, 3,665,488.
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- Kratz, Philip De C.; and Bondarovich, Henry A., 3,686,004.
- Bonded Products, Inc.: See—
- Hight, Hanford Z.; and Lesky, Stephen, 3,676,254.
- Bondi, Joseph V.: See—
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- Bondit Corporation: See—
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- Bondley, Ralph J., to General Electric Company. High temperature brazing alloy system, 3,691,607, 9-19-72, Cl. 29-194.000.
- Bonds, Albert C., to Helical Line Products Co. Helical suspension clamp assembly, 3,684,221, 8-15-72, Cl. 248-63.000.
- Bondurant, John C. Temperature change actuated motor, 3,699,769, 10-24-72, Cl. 60-23.000.
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- Bone, Arnold R., to Dennison Manufacturing Company. Fastener attachment systems, 3,659,769, 5-2-72, Cl. 227-68.
- Boneck, Roger L. Self-contained cable reel, 3,670,977, 6-20-72, Cl. 242-54.00r.
- Boneck, Roger L. Window power actuating device, 3,691,684, 9-19-72, Cl. 49-21.000.
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- Bonesteel, Kenneth E.; and Kinkopf, Edward J., to Alliance Machine Company, The. Manipulator, 3,631,996, 1-4-72, Cl. 214-147.
- Bonetalli, Angelo. Release device, particularly for switches or similar, of small power, 3,662,130, 5-9-72, Cl. 200-67.
- Bonetti, Giovanni A.: See—
- Baker, Thomas N., III; and Bonetti, Giovanni A., 3,652,523.
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- Boney, William E., III: See—
- Barry, James D.; and Boney, William E., III, 3,704,428.
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- Bonfield, John Henry, to Allied Chemical Corporation. Weak acid salts of hydroxylamine, 3,684,432, 8-15-72, Cl. 423-284.000.
- Bonfiglio, Charles P.: See—
- Bennett, John L.; and Bonfiglio, Charles P., 3,665,560.
- Bongers, Hendrikus Johannus, to Sijmpelkamp, G., & Co. Apparatus for making conveyor belts, 3,687,788, 8-29-72, Cl. 156-510.000.
- Bongort, Edgar A.: See—
- Hawkins, Harold V.; Dick, Ralph A.; and Bongort, Edgar A., 3,654,415.
- Bonham, Alba J.: See—
- Rampy, C. W.; and Bonham, Alba J., 3,689,743.
- Bonham, David C. Method of producing a hairpiece, 3,660,185, 5-2-72, Cl. 156-72.
- Bonhomme, Francois Robert, to Connectronics Corporation. Sockets for prong socket electrical contacts and in their methods of manufacture, 3,641,483, 2-8-72, Cl. 339-217.
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- Bonikowski, Zbigniew; and Keen, Bruce Henry, to British Insulated Callender's Cables Limited. Apparatus for detecting faults in elongated flexible material, 3,694,711, 9-26-72, Cl. 318-6.000.
- Bonilla, Charles F., to Haskett, Barry F. Construction of electrolytic cell, 3,645,879, 2-29-72, Cl. 204-247.
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- Hussey, Joseph L., 3,640,272.
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- Mangini, Angelo; Tundo, Antonio; Bonini, Bianca Flavia; and Rossetti, Marta, 3,663,541.
- Bonini, Joseph N., to Gulton Industries, Inc. Method of making a trimmable monolithic capacitor, 3,688,361, 9-5-72, Cl. 29-25.420.
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- Shulman, Arthur; and Bonis, Henry M., Jr., 3,664,281.
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- Bonisch, Herbert; Gaiser, Heinz; Huber, Guntram; and Kolbe, Erwin, to Daimler-Benz Aktiengesellschaft. Outside mirror for motor vehicles, 3,638,899, 2-1-72, Cl. 248-483.
- Bonitz, Eckhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Compositions containing bitumen and an olefin polymer, 3,634,293, 1-11-72, Cl. 260-28.5.
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- Orlova, Frida Abramovna; Seleznev, Georgy Vasilievich; and Bonjuk, Petr Veniaminovich, 3,664,885.
- Bonk, Heinrich Sylvester, to Prontor-Werk Alfred Gauthier, G.m.b.H. Exposure time setting device for a photographic camera with a frosted glass plate precision setting and an electronic time setting arrangement, 3,643,560, 2-22-72, Cl. 95-10.
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- Bonk, Joseph S.: See—
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- Bonlechner, Wolfgang; Chvatilinsky, Kurt; and Hanke, Walter, to Olympia Werke AG. Case shift control apparatus operable by a case shift key and by type keys, 3,698,530, 10-17-72, Cl. 197-71.000.
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- Bonnabaud, Joannes Francis Marcel; and Brat, Claude. Strand unreeling device with automatic tension control, 3,655,108, 4-11-72, Cl. 242-128.
- Bonnamy, Jean Marc: See—
- Duc, Xuong Nguyen; and Bonnamy, Jean Marc, 3,681,927.
- Bonnar, John, to National Research Development Corporation. Female incontinence device, 3,646,929, 3-7-72, Cl. 128-1.
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- Bonnard, Michel Paul Rene. Sound reproduction acoustic enclosure, 3,687,221, 8-29-72, Cl. 181-31.00b.
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- Bonnaud, Michel, to Automobiles Peugeot and Regie Nationale des Usines Renault. Actuating mechanism for a latch, 3,666,308, 5-30-72, Cl. 292-336.300.
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- Bonnefond, Georges: See—
- Lansaque, Rene; and Bonnefond, Georges, 3,690,684.
- Bonnefont, Michel: See—
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- Bonner, Frederick M.: See—
- Lempert, Joseph; Lowry, Jerald; and Bonner, Frederick M., 3,634,645.
- Bonner, W. C., Company, Inc.: See—
- Marten, Donald J., 3,635,597.
- Bonner, Willard Hallam, Jr., to Du Pont de Nemours, E. I., and Company. Process for preparing polythioureas, 3,645,981, 2-29-72, Cl. 260-77.5.
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- Bonner, William A., to Rockford Servo Corporation. Web guide apparatus, 3,693,855, 9-26-72, Cl. 226-19.000.
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- Bonnerot, Jacques; and Paradan, Henri, to U.S. Philips Corporation. Cryostat, 3,646,775, 3-7-72, Cl. 62-216.
- Bonneson, Gail G. Means for collecting coins from a coin operated machine, 3,653,586, 4-4-72, Cl. 232-43.2.
- Bonnet, Alain: See—
- Jumentier, Claude; Bonnet, Alain; and Boiteau, Claude, 3,658,633.
- Bonnet, Carroll W.: See—
- Hobbs, Marcus E.; and Bonnet, Carroll W., 3,667,699.
- Bonnet, Henri Camille; and Chabert, Jean Edmond. Water-proof article for use in submarine during garments, 3,686,064, 8-22-72, Cl. 161-89.000.
- Bonnet, Jean-Loup: See—
- Nicolas, Yves; and Bonnet, Jean-Loup, 3,664,416.
- Bonnet, Jean-Loup, to Schlumberger Technology Corporation. Magnetic suspension densimeter including means to vary float volume and weight, 3,678,760, 7-25-72, Cl. 73-453.000.
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- Bonnette, Richard Arthur, to RCA Corporation. Filamentary display devices, 3,673,652, 7-4-72, Cl. 29-25.160.
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- Bonney, Kenneth Victor, to Hawker Siddeley Aviation Limited. Aircraft, 3,698,664, 10-17-72, Cl. 244-42.0da.
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- Bonnis, Peter. Leaf sweeper and loader, 3,704,477, 12-5-72, Cl. 15-79.000.
- Bonny, Jean-Pierre, to Portescap, Le. Porte-Echappement Universel S.A. Piezoelectric microphone, 3,690,144, 9-12-72, Cl. 73-6.000.
- Bono, David; and Prud'Hon, Lucien, to Association des Ouvriers en Instruments de Precision. Apparatus for determination of alcohol titer in alcoholic liquids, 3,705,015, 12-5-72, Cl. 23-253.00r.
- Bonola, Giuseppe; Da Re, Paolo; and Setnikar, Ivo, to Societe d'Exploitations Chimiques et Pharmaceutiques Seceph. 1-Tertiaryamino alkanoyl-2-hydrogen, methyl or phenyl-3-methyl or phenyl-4-oxo-1,2,3,4-tetrahydroquinazolines, 3,637,681, 1-25-72, Cl. 260-24.2.
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- Bonomo, Joseph A. Baby walking trainer, 3,680,889, 8-1-72, Cl. 280-47.250.
- Bons, Ido A., to Whittaker Corporation. Tube torquing device, 3,662,591, 5-16-72, Cl. 73-99.000.
- Bonsal, W. R., Company: See—
- Cloud, Fayette J., Jr., 3,661,365.
- Bonsignore, Patrick V., to Rohm & Haas Company. High impact resistant thermoplastic substrate coated with non-embrittling paint system, 3,653,950, 4-4-72, Cl. 117-72.
- Bonsignori, Alberto: See—
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- Bonsky, Elmer C., to T.A.D. Avanti, Inc. Multi-line coupling system, 3,679,831, 7-25-72, Cl. 179-2.00c.
- Bonteil, Robert C., to Societe d'Etudes et d'Exploitation de Procédes pour l'Industrie Alimentaire Sepial. Installation for freezing a liquid or semi-liquid product, 3,670,520, 6-20-72, Cl. 62-314.000.
- Bontempi, Ignatius; and De Francisci, Joseph, Jr., to De Francisci Machine Corporation. Alimentary paste product handling machine, 3,656,603, 4-18-72, Cl. 198-20.000.
- Bontems, Henri: See—
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- Bonthelius, Bo Bengt Urban: See—
- Ulvesand, Sture; and Bonthelius, Bo Bengt Urban, 3,688,723.
- Bonton, H. L., Company, Inc.: See—
- Hirschmann, Jack B., Jr., 3,649,106.
- Bonvallet, Roger, to Etablissements Emile Haefely SA. Apparatus for wrapping a conductor bundle, 3,636,691, 1-25-72, Cl. 57-15.
- Bonvicini, Alberto; and Cantatore, Giuseppe, to Montecatini Edison S.p.A. Process for preparing substituted 1,4-diazacycloheptanes, 3,640,999, 2-8-72, Cl. 260-239.
- Bonvicini, Alberto; and Cantatore, Giuseppe, to Montecatini Edison S.p.A. Blends of polyolefins and polyamides, 3,668,278, 6-6-72, Cl. 260-857.
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- Bonvicini, Gene; and Caserta, James. Rocking toy, 3,680,857, 8-1-72, Cl. 272-52.000.
- Bonyata, John O.; and Rohrbach, Lynn G., to Hercules Incorporated. Process of making detergent coated and graphite glazed smokeless powder, 3,637,444, 1-25-72, Cl. 149-10.
- Bonyhard, Peter Istvan; and Nelson, Terence John, to Bell Telephone Laboratories, Incorporated. Dynamic reallocation of information on serial storage arrangements, 3,701,132, 10-24-72, Cl. 340-174.0tf.
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- Olds, Richard G.; and Bonzack, Eugene P., 3,683,238.
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- Bonzano, Giorgio, to Honeywell Information Systems Italia S.p.A. Apparatus for controlling the feeding of paper in high-speed printers, 3,656,041, 4-11-72, Cl. 318-318.
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- Tramier, Bernard; and Bonzom, Albert, 3,635,999.
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- Boockmann, Gerhard: See—
- Schmidt, Karl; and Boockmann, Gerhard, 3,642,724.
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- Boocock, David G. B.; and Ullman, Edwin F., to Synvar Associates. 2,4,5-Substituted N-oxo and hydroxyimidazoles, 3,697,538, 10-10-72, Cl. 260-309.000.
- Booe, James M., to Mallory, P. R., & Co., Inc. Capacitors utilizing bonded discrete polymeric film dielectrics, 3,649,892, 3-14-72, Cl. 317-258.
- Boogert, Lucas W. P.: See—
- Fehres, Hans; and Boogert, Lucas W. P., 3,696,962.
- Booher, Richard N.; and Pohland, Albert, to Lilly, Eli, and Company. Synthesis of nordihydroacronycine and related compounds, 3,657,249, 4-18-72, Cl. 260-279.
- Booher, Robert K., to North American Rockwell Corporation. Ratioless and non-inverting logic circuit using field effect boosting devices, 3,678,290, 7-18-72, Cl. 307-205.
- Booker, Clyde A., Jr.; and Thompson, Francis T., to Westinghouse Electric Corporation. System for phasing recorded information with input signals, 3,647,953, 3-7-72, Cl. 178-6.6.
- Booker, Clyde A., Jr.; and Thompson, Francis T., to Westinghouse Electric Corporation. Continuous display on intermittent video signals, 3,647,954, 3-7-72, Cl. 178-6.6.
- Booker, Jasper A. Scooter-type vehicle, 3,664,680, 5-23-72, Cl. 280-87.400.
- Booker, Philip P.: See—
- Lewis, Gerald Perley; Smyth, Robert William; Booker, Philip P.; and Zelznak, Richard, 3,684,586.
- Bookless, George W., to Bell & Howell Company. Quick release magnetic latch for copier exposure station, 3,694,078, 9-26-72, Cl. 355-75.000.
- Bookwalter, Charles A., II: See—
- Cole, Joseph J.; and Bookwalter, Charles A., II, 3,667,486.
- Bookwalter, George N.: See—

- Mustakas, Gus C.; Albrecht, William J.; and Bookwalter, George N., 3,639,129.
 Bookwrights, Inc.: See—
 Sendor, Mortimer S., 3,674,399.
 Boole & Babbage, Inc.: See—
 Holtwick, Gary M.; and Kolence, Kenneth W., 3,644,936.
 Boom, Abraham A., to Celanese Corporation. Production of improved semipermeable polybenzimidazole membranes. 3,699,038, 10-17-72, Cl. 210-23.000.
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 Booman, Keith A.: See—
 Dupre, Jean; and Booman, Keith A., 3,653,095.
 Dupre, Jean; and Booman, Keith A., 3,655,582.
 Boome, Martin W. Boat hull. 3,698,343, 10-17-72, Cl. 114-66.50p.
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 Boone, John J.: See—
 Samler, Lee F.; and Boone, John J., 3,703,197.
 Boone, Joyce W.: See—
 Harris, Thomas L.; Boone, Joyce W.; and Thomas, Allen G., 3,661,389.
 Boone, Melvin H., to American Hoist & Derrick Company. Vibratory roller. 3,656,419, 4-18-72, Cl. 94-50.
 Boone, Philip. Hermetically-sealed products and related method for cleansing and other uses. 3,652,174, 3-28-72, Cl. 401-143.
 Boone, Salomon: See—
 Roos, Jan; and Boone, Salomon, 3,683,129.
 Boor, John, Jr.: See—
 Hull, Colin G.; and Boor, John, Jr., 3,706,713.
 Boore, Edward Joseph; and Sutter, Delos Mason, to Bell Telephone Laboratories, Incorporated. Testing bond strength of semiconductor device assemblies. 3,636,755, 1-25-72, Cl. 73-37.
 Booruij, Salem, to Environmental Sciences, Inc. Tertiary filtering arrangement. 3,677,413, 7-18-72, Cl. 210-502.000.
 Boorum & Pease Company: See—
 Vogl, Kurt C., 3,643,360.
 Boos, Alfred J.: See—
 Moore, William C.; and Boos, Alfred J., 3,663,078.
 Boos, Donald L.; and Metcalfe, Joseph E., to Standard Oil Company, The. Electrolytic capacitor employing paste electrodes. 3,634,736, 1-11-72, Cl. 317-230.
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 Boos, Walter R.: See—
 Von Schmeling, Bogislav; and Boos, Walter R., 3,663,712.
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 Boosen, Karl-Josef: See—
 Stocker, August; and Boosen, Karl-Josef, 3,666,793.
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 Boostrom, Roy E.; Mandell, Arman; and Malter, Lewis. Combination teaching aid and modular instrumental analysis system and components therefor. 3,701,603, 10-31-72, Cl. 356-246.000.
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 Booth, Dwight Allan, to Omark Air Controls, Inc., mesne. Holder for dental handpiece. 3,672,059, 6-27-72, Cl. 32-22.000.
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 Booth, Frank B.; Fenton, Donald M.; and Olivier, Kenneth L., to Union Oil Company of California. Preparation of rhodium and iridium hydride carbonyl complexes. 3,644,446, 2-22-72, Cl. 260-429.
 Booth, Frank H.: See—
 Allen, Charles F., 3,692,305.
 Booth, Frederick C., to Allied Chemical Corporation. Vehicle seat belt warning signal system. 3,665,385, 5-23-72, Cl. 340-52.00e.
 Booth, Gary E., to Procter & Gamble Company. The. Oligomeric optical brightening compounds. 3,657,231, 4-18-72, Cl. 260-240.
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 Booth, Jack J.; and Branch, William C. Mixing dispenser. 3,655,097, 4-11-72, Cl. 222-129.4.
 Booth, Jack J. Dispensing valve. 3,703,187, 11-21-72, Cl. 137-114.000.
 Booth, Llewellyn Delphin, to Dow Chemical Company. The. Polyurethane compositions prepared from diphenyl ether phenol resins and polyisocyanates. 3,650,994, 3-21-72, Cl. 260-2.5.
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 Hoffmann, John P.; and Booth, Robert C., 3,673,493.
 Booth, Robert C., to Bethlehem Steel Corporation. Multi-probe method and apparatus for detecting, correlating and classifying defects in test members. 3,675,118, 7-4-72, Cl. 324-37.000.
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 Booth, Robert W.: See—
 Sheets, Harry L.; and Booth, Robert W., 3,674,265.
 Booth, Thomas A., to Addressograph-Multigraph Corporation. Illuminating system for a copying machine. 3,697,177, 10-10-72, Cl. 355-67.000.
 Booth, William C.: See—
 Faconti, Victor, Jr.; and Booth, William C., 3,707,044.
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 Eggert, Walter S., Jr., 3,639,934.
 Eggert, Walter S., Jr., 3,641,604.
 Eggert, Walter S., Jr., 3,650,558.
 Eggert, Walter S., Jr.; and Franz, Christian E., 3,654,653.
 Eggert, Walter S., Jr., 3,673,675.
 Eggert, Walter S., Jr., 3,689,822.
 Eggert, Walter S., Jr., 3,693,204.
 Eggert, Walter S., Jr., 3,703,737.
 Herring, James M., Jr., 3,646,282.
 Russell-French, Harry M., 3,645,596.
 Russell-French, Harry M., 3,647,100.
 Santos, Gerard R.; and Herring, James M., Jr., 3,674,107.
 Boothe, Arliss L., to Auto Safety, Inc. Vehicle console. 3,632,158, 1-4-72, Cl. 296-37.
 Boothe, Clyde O., to Farr Company. Cold temperature water drain for locomotives. 3,648,715, 3-14-72, Cl. 137-62.
 Boothe, Jerry E.; Hoover, Merwin F.; and Schiegg, Dallas L., to Calgon Corporation. Fluorocarbon containing diallylamines. 3,678,110, 7-18-72, Cl. 260-567.60m.
 Boothe, Willis A.: See—
 Kantola, Robert A.; and Boothe, Willis A., 3,675,473.
 Boothe, Willis A., to General Electric Company. Fluid control system. 3,635,235, 1-18-72, Cl. 137-81.5.
 Boothe, Willis A.; and Botton, Salvatore, Jr., to United States of America, Air Force. Fluid amplifier frequency multiplier. 3,640,300, 2-8-72, Cl. 137-81.5.
 Boothe, Willis A., to General Electric Company. Fluidic signal detection and prevention of stall in compressors for gas turbine engines. 3,671,134, 6-20-72, Cl. 415-13.000.
 Boothe, Willis A.; and Healey, Anthony J., to General Electric Company. Fluidic lead-lag frequency responsive circuit. 3,678,953, 7-25-72, Cl. 137-81.500.
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 Boots, Patrick R.; and Gaddis, Kenneth W., to Scope Lock, Inc. Vehicle parking space locking device. 3,698,135, 10-17-72, Cl. 49-35.000.
 Boots Pure Drug Company Limited: See—
 Adams, Stewart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, 3,644,420.
 Adams, Stewart Sanders; Armitage, Bernard John; Heathcote, Bernard Vincent; and Bristow, Norman William, 3,681,373.

- Adams, Stewart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, 3,686,218.
 Bryce, Douglas Maxwell, 3,707,148.
 Lumb, Melvyn; Macey, Peter Edward; Wright, Richard Donald; and Petchell, Roy Kenneth, 3,705,841.
 Oxley, Peter; and Housley, John Rosindale, 3,639,434.
 Booty, Robert A.; and Borst, Gaylord M., to Outboard Marine Corporation. Dual station binnacle control. 3,651,709, 3-28-72, Cl. 74-483.
 Bootz, Ludwig: See—
 Stein, Dieter; and Bootz, Ludwig, 3,642,947.
 Bopp, Cecil W., to Go Corporation, Inc. Hydraulic cylinder apparatus. 3,655,315, 4-11-72, Cl. 425-145.
 Bopp, George Ellsworth; and Wiese, Larry Lee, to Bell Telephone Laboratories, Incorporated. Vibrating reed selector having improved component structure. 3,638,149, 1-25-72, Cl. 335-91.
 Bor, Maria, nee Szabo: See—
 Tuba, Zoltan; Bor, Maria, nee Szabo; Komesz, Zoltan; Weitner, Eva, nee Vari; and Gorog, Sandor, 3,705,150.
 Bor, Thomas P., to Allied Chemical Corporation. Method of preparing delustered filaments and fibers. 3,673,147, 6-27-72, Cl. 260-37.00n.
 Boragine, Carlo: See—
 Bruengger, Heinrich; and Boragine, Carlo, 3,635,716.
 Bruengger, Heinrich; and Boragine, Carlo, 3,647,466.
 Boram, William R.; and Aclé, Luis, Jr., to International Harvester Company. Polyimides of benzophenone tetracarboxylic acid esters and aromatic diamines having a basicity constant of less than 10-11 and method of preparation. 3,700,649, 10-24-72, Cl. 260-6.000.
 Borbe-Wanner AG: See—
 Kuoni, Xaver, 3,695,307.
 Borch, Richard F.: See—
 Kreevoy, Maurice M.; Borch, Richard F.; and Hutchins, Jonathan E. C., 3,647,890.
 Borchard, Edwin Harley: See—
 Andreini, John; Borchard, Edwin Harley; Pohl, Karl-Heinz; and Puccio, Joseph Anthony, 3,689,115.
 Andreini, John; Borchard, Edwin Harley; Pohl, Karl-Heinz; and Puccio, Joseph Anthony, 3,689,128.
 Borchardt, Hans J., to Du Pont de Nemours, E. I., and Company. Preparation of fibrous titanium dioxide. 3,650,693, 3-21-72, Cl. 23-202.
 Borcharding, Karl, to Heye, Hermann. Honing apparatus. 3,678,630, 7-25-72, Cl. 51-58.000.
 Borchers, Edward L.: See—
 Francis, Thomas V.; and Borchers, Edward L., 3,707,276.
 Borchert, Alfred E.; and Capaldi, Eugene C., to Atlantic Richfield Company. Adamantyl epoxide polymers. 3,676,375, 7-11-72, Cl. 260-2.00a.
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 Borchert, Ernst, III: See—
 Aydelott, Max M.; Beilfuss, Richard W.; and Borchert, Ernst, III, 3,680,262.
 Borchert, Peter Jochen; Slager, James Edward; Sommer, Ronald George; and Zienty, Mitchell Frank, to Miles Laboratories, Inc. Anti-tarnish process using dicyandiamide formaldehyde condensation product. 3,639,646, 2-1-72, Cl. 252-180.
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 Borck, Howard O.; and Cook, Leo W., to Borg-Warner Corporation. Radial spring clutch. 3,667,582, 6-6-72, Cl. 192-99.00a.
 Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Schorre, Gustav; Hovy, J. W. Hermann; and Schorsch, Ernst, to Merck, E. A. G. 4-Substitutedamino-phenylacetic acids and derivatives thereof. 3,669,956, 6-13-72, Cl. 260-239.0bf.
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 Borcoman, Mircea: See—
 Borcoman, Mircea; and Ciufu, Virgil (said Ciufu assor. to), 3,687,144.
 Borcoman, Mircea; and Ciufu, Virgil, said Ciufu assor. to Borcoman, Mircea. Installation for the treatment, by immersion in a liquid, of parts or of materials, especially for the heat treatment of prefabricated concrete. 3,687,144, 8-29-72, Cl. 134-79.000.

Bord NA Mona: See—

Martin, James, 3,656,930.

Bordat, Andre Jules Edmond, to Societe Nationale Industrielle Aerospatiale. Apparatus for the production of members having a smooth sheathing and of accurate shape, and their applications to the structural elements of submerged foils. 3,669,589, 6-13-72, Cl. 18-42.00d.

Bordeaux, Francis R. Method of manufacture of copper sulfate crystals. 3,661,517, 5-9-72, Cl. 23-125.

Bordeaux, Jean: See—

Marovich, Frank A.; Bordeaux, Jean; and Sawtelle, Donald W., 3,694,321.

Bordelon, Madel A.: See—

Reaves, Robert S.; and Bordelon, Madel A., 3,659,403.

Borden, Abraham Gale. Waste disposal assembly. 3,642,135, 2-15-72, Cl. 210-97.

Borden, Clarence W.; and Mills, John R., to Goodall Rubber Company. Hose splice. 3,635,504, 1-18-72, Cl. 285-260.

Borden Company, The: See—

Black, William Raymond, 3,697,355.

Hopermann, Richard Konrad, 3,671,294.

Leeks, Robert Ernest; and Demers, Alfred John, 3,698,933.

Messervey, Clifford H., 3,687,285.

Sandler, Stanley R., 3,677,883.

Whitworth, Anthony James; Lees, William Arthur; Tung, Stephen Yi-Sun; and Hajto, Ernest Anthony, 3,706,581.

Winslow, Alfred Edwards; and Spicer, John Calvin, 3,640,841.

Borden Corporation, The: See—

McKee, Lewis W.; and Feest, Robert H., Jr., 3,640,593.

Borden, Douglas G.: See—

Dunham, Kenneth R.; Fields, Donald L.; Borden, Douglas G.; and Miller, Jerry B., 3,637,644.

Reynolds, George A.; Laakso, Thomas M.; Borden, Douglas G.; and Williams, Jack L. R., 3,696,072.

Borden, Douglas G.; Unruh, Cornelius C.; and Merrill, Stewart H., to Eastman Kodak Company. Lithographic printing plate prepared from linear light-sensitive polymers containing the styryl ketone group. 3,647,444, 3-7-72, Cl. 96-33.

Borden, Gavin Gale: See—

Ludwig, Frederic G., 3,679,302.

Borden, George W.; and Trecker, David J., to Union Carbide Corporation. N,N'-(dihydroxy)ethylenebisnorbornenes. 3,678,073, 7-18-72, Cl. 260-326.00c.

Borden, Howard C.: See—

Barrett, John C.; Borden, Howard C.; and Loebner, Egon E., 3,701,123.

Borden, Howard C., Jr., to American Micro-Systems, Inc. Segmented master character for electronic display apparatus. 3,702,723, 11-14-72, Cl. 350-160.0lc.

Borden, Inc.: See—

Baker, Edgar Braddbury, 3,681,168.

Bretch, Edward E., 3,703,378.

Columbus, Peter S.; and Erikson, Carl R., 3,692,185.

Columbus, Peter Spiros; and Erikson, Carl Reinhold, 3,657,168.

Columbus, Peter Spiros; and Mason, Ronald Thomas, 3,692,713.

Coster, Maurice Simon, 3,663,717.

Erekson, Arthur B., 3,673,019.

Erekson, Arthur B., 3,688,468.

Erekson, Arthur B.; and Lane, Lamcolm S., 3,696,847.

Halpern, Benjamin D., 3,667,472.

Hoyt, Howard Eugene; and Dean, Robert B., 3,644,269.

Keithley, Robert James, 3,668,158.

Klein, Ralph Arthur; and Cerchia, Angelo, 3,658,556.

Kruger, Bruno Otto; and Waites, James Wilson, Jr., 3,652,659.

Lees, William Arthur, 3,658,624.

Milutin, Ivan Cutakovic; Bartell, Charles; and Blum, Alfred, 3,681,105.

Monson, William Joye, 3,636,195.

Nickerson, Richard Gorham; Harris, Barry Russell; and Breslouf, Morris, 3,644,257.

Pierce, Andrew Earl, 3,671,382.

Re, Jerry Peter, 3,696,064.

Rosis, Constantine, 3,666,735.

Salzberg, Harold Karl; and Sten, Walter G., 3,644,615.

Sandler, Stanley Robert, 3,679,700.

Shen, Ping Kang, 3,668,194.

Snow, Harold Forest, 3,646,638.

Sorell, Henry P.; Pomazak, Eugene; and Rygg, Sven, 3,679,458.

Stehle, Peter Fallon; Wu, Chan K.; Loshaek, Samuel; and Dickstein, Jack, 3,644,262.

Stine, Orrin Burr, 3,679,110.

Wingerd, Winston Harold, 3,637,643.

Bordenca, Carl, to SCM Corporation. Acetylenic diamines. 3,658,902, 4-25-72, Cl. 260-563.

Bordenca, Carl, to SCM Corporation. Dialkylaminoalkyl acetylenic ethers. 3,681,462, 8-1-72, Cl. 260-584.00c.

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Bordence, Carl; and Derfer, John M., to SCM Corporation. Insect-controlling compositions and methods of use. 3,644,645, 2-22-72, Cl. 4240325.

Bordes, Cornelis, to N.V. Industriele Handelscombinatie. Resilient system with compensating device for variable force exerted thereby. 3,643,934, 2-22-72, Cl. 267-155.

Bordes, Cornelis, to N.V. Industriele Handelscombinatie Holland. Mobile offshore platform. 3,680,321, 8-1-72, Cl. 61-46.500.

Bordes, Marcel E. Stabilizing monorail vehicle. 3,677,188, 7-18-72, Cl. 104-120.000.

Bordonali, Corrado; and Bianciffiori, Maria Antonietta, to Comitato Nazionale per l'Energia Nucleare. Apparatus and method for determining the content of chemical elements in a solid sample. 3,635,561, 1-18-72, Cl. 356-85.

Bordonali, Corrado; and Bianciffiori, Marie Antonietta. Apparatus to be used for the analysis of traces of chemical elements through atomic absorption. 3,684,884, 8-15-72, Cl. 250-43.50r.

Bordonaro, Michael P., to Combustion Engineering, Inc. Motor controller. 3,652,912, 3-28-72, Cl. 318-599.

Bore, Pierre, to Societe Anonyme dite: L'Oreal. Treatment of human hair with zinc and cadmium dithiolate derivatives. 3,674,038, 7-4-72, Cl. 132-7.000.

Boreas, Willem J. L., to Weston Instruments Inc. High impact withstanding taut band suspension instrument. 3,678,383, 7-18-72, Cl. 324-154.00r.

Borecki, William Joseph; and Gradishar, Frederick John, to Du Pont de Nemours, E. I., and Company. Package for preparation and dispensing of heated foam. 3,638,786, 2-1-72, Cl. 206-47.

Borehag, Leif Mathias, to Borgs Fabriks AB. Safety device for aircraft barriers. 3,659,811, 5-2-72, Cl. 244-110.00c.

Borehag, Leif Mathias, to Borgs Fabriks AB. Supporting means for elevatable aircraft net barriers. 3,661,348, 5-9-72, Cl. 244-110.00c.

Borejko, Zdzislaw: See—
Zmyslowski, Wojciech; Decowska, Zofia; Gawronski, Ryszard; Borejko, Zdzislaw; Decowski, Marek; and Wirski, Janusz, 3,657,646.

Borel, Robert J.; Corey, Leonard S.; Rucharski, Thaddeus W.; Stocking, John L.; and Thomas, Frederick H., to Eastman Kodak Company. Web transport apparatus. 3,706,406, 12-19-72, Cl. 226-95.000.

Borel S.A.: See—
Beguín, Claude P.; and Betrix, Jean-Pierre F., 3,645,518.

Borelli, Ronald F.; Despres, Daniel C.; and Garand, Donald J., to Honeywell Inc. Printing system. 3,687,107, 8-29-72, Cl. 118-637.000.

Borelli, Ronald F.; and Garand, Donald J., to Honeywell, Inc. Printing apparatus. 3,701,337, 10-31-72, Cl. 118-637.000.

Boren, Donald F.: See—
Brennan, James, Jr.; Pope, Hermon L., Jr.; and Boren, Donald F., 3,638,197.

Boren, Morris G.: See—
Amadon, Roger M.; and Boren, Morris G., 3,690,895.

Boren, Paul D., to Safety Speed Holster, Inc. Pistol holster with belt loop. 3,642,183, 2-15-72, Cl. 224-2.

Boren, William M. Playing card distribution apparatus. 3,658,342, 4-25-72, Cl. 273-149.

Borenstein, David E.: See—
Tate, John E.; Borenstein, David E.; Langley, Isaac L., Jr.; and Banning, Jack A., 3,684,459.

Borenstein, Martin. Sling type upholstered furniture. 3,698,766, 10-17-72, Cl. 297-441.

Borer, Herbert W.; Cryder, John R.; and Wirtz, Edward A., to Caterpillar Tractor Company. Kickout valve and circuit. 3,670,628, 6-20-72, Cl. 91-358.00a.

Boreskov, Georgy Konstantinovich: See—
Stepanov, Gennady Arkadievich; Tsailingold, Anatoly Lvovich; Pilipenko, Fedor Semenovich; Sodolev, Valerian Mikhailovich; Boreskov, Georgy Konstantinovich; Buyanov, Roman Alexeevich; and Venyaminov, Sergei Alexeevich, 3,678,124.

Boresta, John G., to Chemical Construction Corporation. Adjustable venturi gas scrubber. 3,690,044, 9-12-72, Cl. 55-223.000.

Boretsky, Vasily Grigorievich: See—
Skulsky, Jury Valentinovich; Boretsky, Vasily Grigorievich; Sakhamov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievich; Schukin, Pavel Ivanovich; Danilkiv, Ivan Petrovich; Zelensky, Vladimir Filippovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgamovich; and Sokirko, Vasily Andreevich, 3,657,962.

Borg-Erickson Corporation, The: See—
Cooley, Gordon A., 3,651,878.

Borg-Warner (Canada) Limited, mesne: See—
Baldur, Roman, 3,692,192.

Suykens, Matthieu, 3,704,797.

Borg-Warner Corporation: See—
Akers, Edward G., 3,650,551.

Alessi, Samuel P.; and Daneck, David A., 3,683,900.

Arthur, Ralph P.; and Belden, M. Joanne, 3,681,253.

Arthur, Ralph P.; and Belden, Mary Joanne, 3,684,568.

Ball, Rowland E., 3,671,137.

Ball, Rowland E., 3,671,138.

Bejach, Benton, 3,670,235.

Borck, Howard O.; and Cook, Leo W., 3,667,582.

Boyer, Nicodemus E., 3,632,544.

Chadha, Rajendra N.; Arthur, Ralph P.; and Schweiker, George C., 3,697,489.

Clauss, Julius A., Jr., 3,664,206.

Cleveland, Richard E.; Fisher, Jack M.; Glaze, Jack G.; and Jeakle, William G., 3,650,349.

Crowell, Jack R.; Tomashek, James R.; and Ward, Donald H., 3,670,801.

Crowell, Jack R., 3,677,333.

Curfman, Don Carl, 3,657,391.

Curran, Robert J., 3,692,253.

Czerwinski, Richard W.; and Arthur, Ralph P., 3,662,027.

Day, Arthur Reginald, III; and Kimpel, Frank A., 3,633,073.

Distefano, John F., 3,698,839.

Donaldson, Desmond M., 3,656,548.

Friedline, Kenneth L., 3,688,609.

Gardner, Willis W., 3,685,617.

Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K., 3,637,221.

Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K., 3,697,162.

Grabowski, Thomas S., 3,642,946.

Grabowski, Thomas S., 3,649,712.

Gyory, Emerie J.; and Teichmann, Otmar E., 3,671,048.

Halberg, Robert W., 3,656,573.

Hamm, John R., 3,654,950.

Harlin, Lester E., 3,649,140.

Harlin, Lester E.; and Tothoro, Dwight L., 3,684,412.

Hendry, James W.; Kimball, Jack E.; and Chin, Charles L. D., 3,687,582.

Hopkins, Neil E.; and Muench, Paul W., 3,640,084.

Jones, Johnny W., 3,671,786.

Keats, John B., 3,636,718.

Kelbel, Donald W., 3,631,741.

Kimball, Jack E., 3,682,748.

Kimpel, Frank A.; and Markley, William F., 3,650,121.

Krusemark, Frederick A., 3,631,676.

Kubiak, Emil A., 3,637,327.

Kubiak, Emil A., 3,665,836.

Lock, Thomas, 3,639,089.

Marsh, David C., 3,633,754.

Marsh, David C.; and Rao, Prabhakar B. R., 3,649,135.

Marsi, Joseph A., 3,638,957.

Matras, Walter F.; and Meadors, William R., 3,634,579.

McMillen, Kenneth G., 3,631,890.

McMillen, Kenneth G.; and Miller, Wendell E., 3,635,021.

McMillen, Kenneth G.; and Miller, Wendell E., 3,693,506.

Miller, Robert C.; and Miller, Carl K., 3,648,690.

Newton, Alwin B., 3,650,320.

Newton, Alwin B., 3,670,519.

Newton, Alwin B., 3,688,516.

Newton, Alwin B., 3,688,517.

Newton, Alwin B., 3,693,704.

Newton, Alwin B., 3,701,264.

Nixon, James E., 3,698,772.

Pande, Kailash C., 3,659,006.

Payne, Harold R., 3,677,025.

Roberts, Richard W., 3,648,384.

Roberts, Richard W., 3,654,707.

Root, Warren W.; and Frank, William W., 3,650,262.

Saternus, Joseph P., 3,653,617.

Schlott, Richard J.; Hoeg, Donald F.; and Pendleton, John F., 3,647,803.

Schmidt, Charles T., 3,666,065.

Shemanske, Richard, 3,678,351.

Shuey, Scott James, 3,678,493.

Studtmann, George H., 3,634,701.

Studtmann, George H., 3,638,042.

Szucs, Robert J., 3,678,519.

Templin, Lee H., 3,649,031.

Tuzson, John J., 3,687,121.

Vaughn, Robert S., 3,689,203.

Venema, Harry J.; and Padgett, Kenneth W., 3,651,454.

Wayman, Robert W.; and Wiemer, Howard C., 3,635,023.

Wills, Frank Eugene, 3,686,891.

Wise, George L.; and Russ, Mark A., 3,703,305.

Yarema, Raymond J.; and Studtmann, George H., 3,656,047.

Zimmer, George A., 3,706,199.

Borg-Warner Corporation, mesne: See—
Frank, Arlen W.; and Baranauckas, Charles F., 3,678,100.

Frank, Arlen W.; and Baranauckas, Charles F., 3,681,448.

Iliopoulos, Miltiadis I.; and Hindersinn, Raymond R., 3,674,748.

Jeffrey, Joseph O., 3,636,788.

Borg-Warner Limited: See—

Ivey, John Saxon; and Frost, Bernard John, 3,631,872.

Laing, James Morrison, 3,631,947.

Laing, James Morrison, 3,650,364.

Laing, James Morrison, 3,664,210.

Laing, James Morrison, 3,667,324.

Leach, Michael E. H., 3,688,608.

Borgaes, Edeltraut E.: See—
Berger, Arthur; and Borgaes, Edeltraut E., 3,637,703.

Berger, Arthur; and Borgaes, Edeltraut E., 3,660,405.

Borgen, William Earl: See—
Kostel, Paul Steven; Borgen, William Earl; and Willert, Richard Joseph, 3,685,258.

Borger, George Frederick. Fish hook guard. 3,670,445, 6-20-72, Cl. 43-42.400.

Borgers, Johann, KG. Firma: See—
Schulte, Alfons, 3,703,752.

Borgert, Kenneth J., to Borget Concrete Products, Inc. Mold for preparing concrete slotted floors. 3,656,729, 4-18-72, Cl. 249-18.000.

Borget Concrete Products, Inc.: See—
Borget, Kenneth J., 3,656,729.

Borgi, Italo: See—
Dall'Asta, Gino; Carbonaro, Antonio; Borgi, Italo; and Greco, Alberto, 3,682,870.

Borghoff, William R.: See—
Asmus, Rodger W.; and Borghoff, William R., 3,667,226.

Borgmann, W. P., KG: See—
Borgmann, Wilhelm Peter, 3,646,290.

Borgmann, Wilhelm Peter, to Borgmann, W. P., KG. Microswitch with pivotal microcontact actuator. 3,646,290, 2-29-72, Cl. 200-67.

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Borgogno, Victor E.: See—
Smith, James E.; Borgogno, Victor E.; and Luehr, Robert E., 3,684,875.

Borgogno, Victor F.: See—
Smith, James E.; and Borgogno, Victor F., 3,685,604.

Borgonovi, Bruno: See—
Gruler, Josef; Borgonovi, Bruno; Streitberger, Ernst Friedrich Henning; and Kratt, Kurt Wilhelm, 3,646,326.

Borgos, Jerome E.: See—
Schliemann, Louis F.; and Borgos, Jerome E., 3,648,627.

Borgs Fabriks AB: See—
Borchag, Leif Mathias, 3,659,811.

Borchag, Leif Mathias, 3,661,348.

Carlsson, Sixten Einar, 3,659,812.

Borgstede, George J. Vehicle trailer bed overload indicating system. 3,646,512, 2-29-72, Cl. 340-52.

Borgstedt, Hans Ulrich: See—
Wincierz, Peter; Ruhle, Manfred; Kuchler, Heinz; Borgstedt, Hans Ulrich; and Bohm, Horst Otto, 3,695,866.

Borgstedt, Hans-Ulrich; Ruhle, Manfred; and Wincierz, Peter, to Metallgesellschaft Aktiengesellschaft. Composite material of vanadium alloys and iron or nickel alloys. 3,677,723, 7-18-72, Cl. 29-194.000.

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Boris, Volkovich: See—
Karpman, David Bentsionovich; Boris, Volkovich; Konovalov, Spivak Leonidovich; Bednarchuk, Jury Vladimirovich; Chigirinsky, Alexander Abramovich; Ugrjumov, Leonid Vasilievich; Glider, Evgeny Khaimovich; and Gradov, Oleg Borisovich, 3,639,794.

Borisov, Konstantin Grigorievich; Markman, Isif Leibovich; Sitnikov, Leonid Semenovich; and Utyakov, Lev Lazarevich. Push button variable capacitor. 3,659,163, 4-25-72, Cl. 317-249.

Borisov, Vasily Semenovich: See—
Kulikov, Ivan Vladimirovich; Borisov, Vasily Semenovich; and Treschev, Viktor Georgievich, 3,678,999.

Borisovich, Kiev, Alexandr: See—
Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chkotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexandr; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikhailovich; Shevisov, Anatoly Ivanovich; Grinspon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toschev, Alexandr Mikhaivich, 3,687,188.

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Borky, John M.: See—
Thornton, Richard D.; and Borky, John M., 3,667,064.

Borman, August H.; Green, Lawrence E.; and Wonn, Quinby E., to General Motors Corporation. Transmission drive establishing control. 3,642,107, 2-15-72, Cl. 192-103.

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Borman, Merle D.: See—
Hulle, Robert M.; Steward, Jerry L.; and Borman, Merle D., 3,693,024.

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Safra, Leon; Beifuss, Horst; Bormann, Hans; and Rost, Gunter, 3,685,242.

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Borner, Peter: See—
Imoehl, Wolfgang; and Borner, Peter, 3,655,617.

Borner, William Gerard, to International Nickel Company, Inc., The. Production of electrolytic metal. 3,668,081, 6-6-72, Cl. 204-12.000.

Bornet, Daniel: See—
Laser, Georges; and Bornet, Daniel, 3,656,077.

Bornstein, Leopold F., to Georgia Pacific Corporation. Method of forming shell molds. 3,632,785, 1-4-72, Cl. 260-25.
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 Stroganov, Genrikh Borisovich; Savitsky, Evgeny Mikhailovich; Tikhova, Nina Mikhailovna; Terekhova, Vera Fedorovna; Volkov, Mstislav Vasilievich; Sivash, Konstantin Mitrofanovich; and Borodkin, Vladislav Sergeevich, 3,687,135.
 Boron, Joseph; and Lowdermilk, Marvin J., to Electro-Nite Engineering Co. Expendable lance. 3,685,359, 8-22-72, Cl. 73-354.000.
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 Boros, Paul Z.: *See—*
 Jacob, Gerald W.; Mogul, Eugene; Boros, Paul Z.; Schiff, David; Reader, Malcolm; and Kamen, Ira, 3,646,256.
 Boroschewski, Gerhard; Arndt, Friedrich; and Rusch, Reinhart, to Schering A.G. Methyl and ethyl-N-[3-(3'-methylphenyl-carbamoyloxy)-phenyl] carbamates. 3,692,820, 9-19-72, Cl. 260-472.000.
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 Borowski, Kurt: *See—*
 Ulrich, Klaus-Herbert; Doering, Dieter; and Borowski, Kurt, 3,661,725.
 Borowski, Richard: *See—*
 Neumann, Edward W.; and Borowski, Richard, 3,672,942.
 Borra, Albert George: *See—*
 Arden, Thomas Victor; Borra, Albert George; and Clayton, Rolf Crowther, 3,674,685.
 Borrelli, Andre B., to Societe Anonyme: Ciments Lafarge. Apparatus for the manufacture of super-white cements. 3,692,286, 9-19-72, Cl. 263-32.000.
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 Borrelli, Nicholas F.; and Layton, Margaret M. Bistable optical elements using transparent ferroelectric glass ceramics. 3,639,771, 2-1-72, Cl. 250-225.
 Borrello, Sebastian R.: *See—*
 Belasco, Melvin; and Borrello, Sebastian R., 3,700,980.
 Belasco, Melvin; and Borrello, Sebastian R., 3,703,408.
 Borretzen, Bernt: *See—*
 Abramo, Aina Lisbeth; Bjorklund, Rolf; Borretzen, Bernt; Olsson, Knut Gunnar; and Sundbeck, Bertil, 3,660,501.
 Borrevang, Poul; and Faarup, Peter, to Novo Therapeutisk Laboratorium A/S. Steroid compounds of the estrane, androstane, pregnane and 19-norpregnane series and the preparation thereof. 3,673,224, 6-27-72, Cl. 260-397.400.
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 Borriello, Aleardo. Electromechanical apparatus for slinging and turning over roll material. 3,695,460, 10-3-72, Cl. 214-1.0qd.
 Borrmann, Dieter: *See—*
 Metzger, Carl; Borrmann, Dieter; Wegler, Richard; Eue, Ludwig; and Hack, Helmuth, 3,686,198.
 Borromeo, Giulio, to Rheem Manufacturing Company. Seal for joining hollow cylindrical bodies to dished caps and method of providing same. 3,632,009, 1-4-72, Cl. 220-5.
 Borror, Alan L.: *See—*
 Bloom, Stanley M.; Borror, Alan L.; Huyffer, Paul S.; and Macgregor, Paul T., 3,702,244.
 Borruso, Joseph V.: *See—*
 Kaldor, Robert M.; Borruso, Joseph V.; and Goldbaum, Elliott, 3,676,834.
 Borsani, Osvaldo; and Gerli, Eugenio, to Tecono S.p.A. Modular elements for pieces of furniture and pieces of furniture obtained thereby. 3,663,079, 5-16-72, Cl. 312-195.
 Borsboom, Albertus C. H.: *See—*
 Nihof, Hendrikus J.; and Borsboom, Albertus C. H., 3,640,120.
 Borshev, Semen Timofeevich: *See—*
 Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borshev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Ilevich; Zhabin,

Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhikhin, Vladimir Petrovich; Rubnikov, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Ussyaslav Iosifovich; Sharipova, Ravia Davlyatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorievich, 3,654,325.
 Borschovsky, Igor Konstantinovich: *See—*
 Chaikin, Boris Semenovich; Kozlov, Lev Ivanovich; Oblasti, Khimki Moskovskoi; Malchenko, Thomas Vasilievich; Mokrushin, Konstantin Dmitrievich; Yarovsky, Lev Volfovich; Maryanchik, Grigory Efimovich; Zhelnov, Boris Stepanovich; Tarasov, Vasily Mikhailovich Trubetskov, Kirill Mikhailovich; Borschovsky, Igor Konstantinovich; and Chermensky, Dmitry Pavlovich, 3,697,058.
 Borsi, Jozsef: *See—*
 Toldy, Lajos; Borsi, Jozsef; Elek, Sandor; Elekes, Istvan; and Andras, Ferenc, 3,671,537.
 Borsig Gesellschaft mit beschränkter Haftung: *See—*
 Brücher, Peter, 3,683,713.
 Lück, Friedrich, 3,656,875.
 Nink, Heinz, 3,658,348.
 Borsig Gesellschaft mit beschränkter Haftung, Firma: *See—*
 Lück, Friedrich, 3,671,153.
 Borsodnadasdi Lemezygar: *See—*
 Sandor, Mirlos; Nyitray, Istvan; and Nemeth, Jozsef, 3,689,615.
 Borst, Gaylord M.: *See—*
 Booty, Robert A.; and Borst, Gaylord M., 3,651,709.
 Borst, Henry V. Method for temporarily correcting rods. 3,682,383, 8-8-72, Cl. 238-171.000.
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 Borsum, Finn: *See—*
 Eriksson, Per-Olof; and Borsum, Finn, 3,643,903.
 Borsutski, Eberhard; and Lichmann, Gerhard, said Lichmann assor. to Deutsche Schachtbau und Tiefbohrgesellschaft mbH. Soil compacting apparatus adapted to operate with rotating unbalances. 3,693,513, 9-26-72, Cl. 94-50.000.
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 Bortz, Jack D. Shelf bracket cover. 3,707,273, 12-26-72, Cl. 248-235.000.
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 Borysko, Emil. Process for applying a thin coating of polytetrafluoroethylene. 3,700,489, 10-24-72, Cl. 117-106.000.
 Borzel, Paul: *See—*
 Makowski, Henry S.; and Borzel, Paul, 3,681,309.
 Borzoni, John J.; Swichard, Edward A.; and Burek, John A., Jr. Fuse holder assembly. 3,699,500, 10-17-72, Cl. 339-91.000.
 Bos, Hendrikus J.: *See—*
 Van de Belo, Roelof; Begemann, Heinrich K. S. P.; Bos, Hendrikus J.; and Mann, Adriaan B., 3,690,389.
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 Bosacco, David N. Prosthetic or fracture device and method. 3,670,724, 6-20-72, Cl. 128-92.00d.
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 Bosch, Paul: *See—*
 Kobald, Walter; and Bosch, Paul, 3,659,618.
 Bosch, Paul, to Bosch, Robert, G.m.b.H. Regulated hydraulic apparatus. 3,644,063, 2-22-72, Cl. 417-213.
 Bosch, Robert Elektronik Und Photokino GmbH: *See—*
 Rube, Helmut, 3,704,943.
 Bosch, Robert, G.m.b.H.: *See—*
 Adler, Karl-Heinz; Locher, Johannes; Lemanczyk, Rudolf; and Schonart, Edgar, 3,699,935.
 Adler, Karl-Heinz; Domann, Helmut; and Locher, Johannes, 3,701,041.
 Anton, Eckhard; and Schlechtriem, Werner, 3,631,888.
 Bachle, Karl; and Knorr, Jürgen, 3,666,039.
 Bagmolet, Claude Comeau; and Reutlingen, Karl-Heinz Digel, 3,686,838.
 Barthuruff, Otto; and Ruhle, Walter, 3,691,854.
 Baumann, Gunther, 3,652,135.
 Baumann, Gunther, 3,652,832.
 Bayer, Erich, 3,681,635.
 Beesch, Otto; Wolf, Karl; and Ziegler, Bodo, 3,689,195.
 Beesch, Otto, 3,691,418.
 Bertsch, Richard; Fussner, Paul; Glaser, Manfred; and Nusser, Hermann, 3,639,085.
 Biechl, Josef; and Konrath, Karl, 3,672,343.
 Bodig, Bernd; Sohner, Gerhard; and Stelow, Gert, 3,703,889.
 Boeters, Karl-Ernst; Conzelmann, Gerhard; Streit, Klaus; and Fleischer, Hans-Joachim, 3,662,228.
 Boeters, Karl-Ernst; Streit, Klaus; Conzelmann, Gerhard; Schmid, Hermann; and Fleischer, Hans-Joachim, 3,662,720.
 Boke, Reinhard; Schmid, Alfred; and Wilke, Heinz, 3,643,326.
 Bosch, Paul, 3,644,063.
 Bosch, Walter; Schwartz, Reinhard; and Stumpp, Gerhard, 3,659,628.
 Brill, Klaus; and Grothe, Wolfgang, 3,651,781.
 Burger, Karl-Heinz, 3,667,081.
 Christ, Klaus H., 3,697,807.
 Daumüller, Hans, 3,688,103.
 Dieterich, Manfred; Schirmer, Gunter; Conzelmann, Gerhard; Harlin, Walter; Haustein, Gerhard; and Ocker, Wilhelm, 3,652,924.
 Dietz, Hermann, 3,650,840.
 Dietz, Hermann, 3,663,303.
 Dworak, Wilhelm, 3,632,240.
 Ebert, Jürgen; and Nusser, Hermann, 3,659,965.
 Eckert, Konrad; and Eheim, Franz, 3,631,743.
 Eckert, Konrad; and Hofer, Gerald, 3,644,064.
 Eckert, Konrad, 3,656,693.
 Eckert, Konrad; Knapp, Heinrich; Schwartz, Reinhard; and Schuster, Georg, 3,680,535.
 Eckert, Konrad, 3,688,754.
 Eckert, Konrad; Eheim, Franz; Hofer, Gerald; and Koster, Claus, 3,699,939.
 Eckert, Konrad; and Knapp, Heinrich, 3,703,888.
 Eheim, Franz, 3,633,559.
 Eheim, Franz, 3,635,603.
 Eheim, Franz, 3,638,631.
 Eheim, Franz, 3,661,130.
 Engfer, Ortwin, 3,632,131.
 Engfer, Ortwin, 3,666,286.
 Espenschied, Helmut; and Sauer, Joseph, 3,645,167.
 Espenschied, Helmut; Rothfuss, Georg; and Will, Gerhard, 3,659,481.
 Forschner, Friedrich; Kurzhals, Hans; and Müller, Karl-Heinz, 3,661,480.
 Gemander, Georg, 3,648,675.
 Gunser, Peter; and Christ, Klaus H., 3,659,263.
 Gunser, Peter; Zechall, Richard; and Christ, Klaus, 3,659,907.
 Hahner, Reinhard, 3,667,310.
 Henniges, Karin; and Schulze, Bernd, 3,643,671.
 Hofmann, Eberhard, 3,668,945.
 Hoyler, Alfred, 3,667,082.
 Hoyler, Alfred, 3,668,446.
 Issler, Jorg; Hohne, Gerd; Stelow, Gert; and Roth, Helmut, 3,635,202.
 Issler, Jorg; Roth, Helmut; and Sohner, Gerhard, 3,692,009.
 Junker, Jürgen; and Schleupen, Richard, 3,664,945.
 Kammerer, Heinz, 3,673,564.
 Kern, Georg; and Wilke, Heinz, 3,650,373.
 Kirm, Manfred; Hahner, Reinhard; Stroeel, Reinhold; Hettich, Alfred; and Burklin, Max, 3,680,642.
 Kirm, Manfred; Hettich, Alfred; Hahner, Reinhard; Stroeel, Reinhold; and Burklin, Max, 3,686,957.
 Klett, Erich; Paule, Kurt; and Hettich, Alfred, 3,691,407.
 Kobald, Walter; and Bosch, Paul, 3,659,618.
 Kock, Klaus, 3,673,292.
 Komaroff, Iwan; Ziegler, Ewald; and Hans, Waldemar, 3,661,183.

Kramer, Manfred; Flaschar, Heinz; and Antonulas, Georg, 3,642,019.
 Krauss, Rudolf; and Walch, Eugen, 3,690,566.
 Lang, Herbert, 3,659,571.
 Laufer, Helmut, 3,665,907.
 Leibfried, Wolfgang; Schmid, Guenther; Ortlieb, Alfred; Hartmann, Horst J.; and Tittes, Eberhard, 3,648,915.
 Lemanczyk, Rudolf, 3,693,603.
 Lettenmayer, Rolf-Dieter; Schonherr, Erich; and Tittmann, Egon, 3,644,065.
 Links, Heinz, 3,689,205.
 Mahl, Willy; and Werner, Walter, 3,683,748.
 Maylandt, Helmut; Forster, Herbert; and Juhasz, Josef, 3,699,410.
 Melcher, Kurt; and Vogel, Wilhelm, 3,666,232.
 Messerschmidt, Friedrich, 3,703,184.
 Mittag, Hermann; and Issler, Jorg, 3,640,260.
 Nagele, Erwin, 3,670,280.
 Niemann, Gert, 3,698,961.
 Nier, Johannes, 3,689,985.
 Pfeffer, Peter, 3,660,752.
 Pfeffer, Peter, 3,663,947.
 Pfluger, Gerhard, 3,670,173.
 Reger, Herbert; and Heinrich, Hans-Walter, 3,698,542.
 Reichel, Eckehard; and Zellbeck, Gustav, 3,691,910.
 Romann, Peter; Knapp, Heinrich; and Fussner, Paul, 3,680,794.
 Roth, Helmut; Sohner, Gerhard; Hohne, Gerd; and Issler, Jorg, 3,651,793.
 Ruhle, Walter; and Barthuruff, Otto, 3,666,958.
 Schadlich, Fritz, 3,695,365.
 Schadlich, Fritz, 3,702,705.
 Schjiz, Jürgen, 3,697,872.
 Schlagmüller, Walter; and Babitzka, Rudolf, 3,662,987.
 Schlechtriem, Werner; and Anton, Eckhard, 3,631,887.
 Schlimme, Ewald, 3,665,900.
 Schmid, Gunther, 3,650,656.
 Schnabel, Eberhard; Fleischer, Helmut; Zechall, Richard; Domann, Helmut; Maisch, Wolfgang; and Christ, Klaus, 3,696,270.
 Schneider, Karl-Heinz, 3,644,005.
 Schneider, Klaus, 3,667,723.
 Schnell, Gerhard, 3,667,564.
 Schnell, Gerhard, 3,702,641.
 Scholl, Hermann; Norbert, Stuttgart; Gansert, Willi; and Arnold, Herbert, 3,678,904.
 Schratz, Hubert; and Schneider, Karl-Heinz, 3,681,543.
 Schulten, Reinhard; and Michel, Hartmut, 3,679,517.
 Schuster, Gregor, 3,693,889.
 Schwerin, Gunther, 3,680,581.
 Soehner, Gerhard; and Hoehne, Gerd, 3,648,155.
 Staudt, Heinrich; and Prillwitz, Rolf, 3,702,577.
 Strobl, Georg; and Sander, Klaus, 3,666,990.
 Sturmer, Hans, 3,655,304.
 Sturmer, Hans, 3,691,861.
 Sturmer, Hans, 3,702,683.
 Taubitz, Bernd; and Bachle, Karl, 3,652,887.
 Traub, Eberhard; Ortlieb, Alfred; Brill, Klaus; and Grothe, Wolfgang, 3,657,721.
 Ursel, Eckhard, 3,707,633.
 Vogel, Erich; Ullmann, Gunther; and Pfluger, Gerhard, 3,646,820.
 Vogel, Erich; and Ullmann, Gunther, 3,664,201.
 Voit, Willi, 3,642,212.
 Wesemeyer, Jürgen, 3,704,700.
 Widmaier, Dieter, 3,643,433.
 Widmaier, Dieter, 3,643,434.
 Widmaier, Dieter, 3,690,097.
 Wilke, Gerhard; Schnell, Gerhard; and Hoyer, Karl, 3,647,014.
 Wilke, Heinz; and Bertram, Claus, 3,664,012.
 Willhaus, Werner; and Scharf, Friedrich, 3,655,084.
 Wöhr, Rolf; and Gotz, Eckart, 3,702,962.
 Wöhring-Seelig, Gerhard; Conzelmann, Gerhard; Schirmer, Gunter; and Domann, Helmut, 3,634,677.
 Zechall, Richard; Domann, Helmut; Fleischer, Helmut; Christ, Klaus; and Maisch, Wolfgang, 3,642,329.
 Zimmermann, Kurt; and Gemander, Georg, 3,678,913.
 Zirps, Wilhelm, 3,657,888.
 Bosch, Robert, G.m.b.H., mesne: *See—*
 Stieringer, Albert, 3,644,029.
 Bosch, Robert, Photokino G.m.b.H.: *See—*
 Ackermann, Karl, 3,636,406.
 Ackermann, Karl, 3,648,104.
 Beinsch, Herbert, 3,705,764.
 Heinzmann, Rolf, 3,642,354.
 Loewe, Richard, 3,665,834.
 Riedel Wolfgang, 3,664,606.
 Riedel, Wolfgang, 3,675,874.
 Rube, Helmut, 3,680,953.
 Stieringer, Albert, 3,635,549.
 Stolzenwald, Ralf J.; and Kormer, Peter, 3,677,625.
 Bosch, Robert, Photokino G.m.b.H., mesne: *See—*

- Rube, Helmut, 3,644,028.
- Bosch, Walter; Schwartz, Reinhard; and Stumpp, Gerhard, to Bosch, Robert, G.m.b.H. Distributor for continuously operating fuel injection systems. 3,659,628, 5-2-72, Cl. 137-501.
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- Boschetti, Eugene: See—
Molho, Darius; Boschetti, Eugene; and Fontaine, Louis, 3,651,089.
- Boschetti, Eugene; Molho, Darius; and Fontaine, Louis, to Lipha, Lyonnaise Industrielle Pharmaceutique. Derivatives of 4-hydroxy coumarin and the preparation thereof. 3,651,091, 3-21-72, Cl. 260-343.2.
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- Bosco, Silvio: See—
Burlando, Antonio; and Bosco, Silvio, 3,687,337.
- Bose Corporation, The: See—
Froeschle, Thomas A., 3,657,569.
Froeschle, Thomas A., 3,663,949.
- Bose, Dieter; and Pfoertner, Karlheinz, to Givaudan Corporation, mesne. Process for the preparation of rose oxide. 3,657,278, 4-18-72, Cl. 260-345.1.
- Bose, Orrin E.: See—
Reschke, Albert H.; Dick, James E.; and Bose, Orrin E., 3,659,574.
- Bose, Otindra Nath, to English Sewing Limited. Method of making a yarn containing loops. 3,703,075, 11-21-72, Cl. 57-157.00r.
- Bose, Robert N. Apparatus for controlling the flow of liquid. 3,661,483, 5-9-72, Cl. 18-5.
- Boser, Ronald J.: See—
Gluckin, Gerald W.; and Boser, Ronald J., 3,653,075.
- Boshagen, Horst, to Farbenfabriken Bayer Aktiengesellschaft. 3-Amino-isothiazoles, derivatives thereof and processes for the production thereof. 3,692,795, 9-19-72, Cl. 260-305.000.
- Bosher, David Robert: See—
Wilkinson, Alan; Hine, Stewart Charles; and Bosher, David Robert, 3,644,739.
- Bosisio, Germano: See—
Bernardi, Luigi; Bosisio, Germano; and Temperilli, Aldemio, 3,647,655.
- Bernardi, Luigi; Bosisio, Germano; De Castiglione, Roberto; and Goffredo, Onofrio, 3,705,140.
- Bosisto, Carlos Alberto: See—
Lozano, Gustavo Jimenez; Bosisto, Carlos Alberto; and Weinbaum Alejan Dro Sise, 3,690,006.
- Bosken, Hugo F.; and Heidt, Alfred K., to Frankl & Kirchner Fabrik fur Elektromotoren und Elektrische Apparate. Sewing machine having contactless position control means. 3,659,538, 5-2-72, Cl. 112-219.
- Bosley, Denis V.: See—
Beny, Janos; Bosley, Denis V.; and Kennedy, Melvin R., 3,654,728.
- Schlaue, Floyd E.; Bosley, Denis V.; Crain, Philip W.; and Douglas, Raymond J., 3,675,361.
- Smith, Robert S.; Bosley, Denis V.; and Soulakis, George, 3,693,289.
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- Bosnaliyek: See—
Tandara, Milan, 3,655,748.
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Rogers, John A.; and Bossard, Fredrick R., 3,635,302.
Rogers, John A.; and Bossard, Fredrick R., 3,659,667.
Rogers, John A.; and Bossard, Fredrick R., 3,664,451.
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Gragson, James T.; and Bosse, David W., 3,658,703.
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- Bosshard, Walter: See—
Purt, Gustav; Bosshard, Walter; and Meier, Gerhard, 3,693,401.
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Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,632,810.
- Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,639,396.
- Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,646,023.
- Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Voser, Walter; Mueller, Johannes; and Peter, Heinrich, 3,661,901.
- Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Hueller, Johannes; and Peter, Heinrich, 3,682,903.
- Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,686,172.
- Fechtig, Bruno; Vischer, Ernst; Bickel, Hans; Bosshardt, Rolf; and Urech, Jakob, 3,697,515.
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Enkoji, Takashi; and Bossinger, Charles D., 3,636,220.
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- Bossler, Alfred T.: See—
Rightmire, Glenn K.; Bossler, Alfred T.; Burnell, Arthur E.; and Helms, August R., 3,706,330.
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Pazhia, Vincent B.; and Bossler, Franklin B., 3,695,388.
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Wismer, Marco; and Bosso, Joseph F., 3,707,414.
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Olson, John E.; Bostad, Wayne W.; and Price, Norman L., 3,670,626.
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Karlsson, Karl Gosta; and Bostedt, Jan Olof Gustaf, 3,671,029.
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- Boswell, Kay H.: See—
Shen, Tsung-Ying; and Boswell, Kay H., 3,676,422.
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Helsley, Grover Cleveland; and Boswell, Robert Frederick, Jr., 3,657,253.
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- Bosworth, Frank C.: See—
Loop, Frederick M.; and Bosworth, Frank C., 3,663,407.
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Eggleston, Gerard; and Bosworth, George, 3,678,753.
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- Bosworth, Theodore K.: See—
Potter, Basil E.; Bosworth, Theodore K.; Chisholm, John P.; and Cadzow, James A., 3,659,085.
- Botefuhr, Harold R.: See—
Jacyno, Anthony; and Botefuhr, Harold R., 3,656,016.
- Botham, John C.: See—
Walsh, John H.; Whalley, Basil J. P.; and Botham, John C., 3,637,464.
- Botham Ruth A.: See—
Bayless, Robert G.; Shank, Charles P.; Botham Ruth A.; and Werkmeister, Dennis W., 3,674,704.
- Bothne, Ralph Edward, to Mobil Oil Corporation. Pneumatic multiplexer method and apparatus. 3,689,748, 9-5-72, Cl. 235-151.300.
- Botineau, Jean: See—
Girard, Andre J.; and Botineau, Jean, 3,639,062.
- Botkin, Carl, to Addressograph-Multigraph Corporation. Process for making duplicates of microfilm. 3,676,001, 7-11-72, Cl. 355-132.000.
- Botley, Geoffrey Sword: See—
Sanders, Kenneth Douglas; Botley, Geoffrey Sword; and Taylor, Jack William, 3,705,507.
- Botney, Richard H. Compact folding chair. 3,674,306, 7-4-72, Cl. 297-17.000.
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- Botsford, Charles E.: See—
Poling, Ezar C.; and Botsford, Charles E., 3,703,428.
- Botskor, Ivan; and Kalnay, George, 2/3 each to Horvath, Tibor and Kalnay, George. Sun following device. 3,656,844, 4-18-72, Cl. 353-3.
- Bott, A. Hans, to Harris-Intertype Corporation. Frequency control circuit. 3,706,039, 12-12-72, Cl. 325-184.000.
- Bott, Edward. Complaint bath and rinse receptacle. 3,681,789, 8-8-72, Cl. 4-177.000.
- Bott, George: See—
Taylor, Arthur Sinclair; Sandhage, Ellsworth; Bott, George; and Konazewski, William, 3,698,450.
- Bott, John A. Sliding tie-down device. 3,643,973, 2-22-72, Cl. 280-179.
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- Botta, Artur: See—
Krimm, Heinrich; Botta, Artur; and Schneill, Hermann, 3,670,024.
- Bottai, Gabriele: See—
Cozza, Giorgio; Bottai, Gabriele; and Barilli, Filippo, 3,706,531.
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- Bottcher, James H.: See—
Banes, Nathan M., Jr.; and Bottcher, James H., 3,636,395.
- Bottcher, Karl-Heinz, to U.S. Philips Corporation, mesne. Method for forming the vacuum-tight closure of a through-connection. 3,638,305, 2-1-72, Cl. 29-628.
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Darsow, Gerhard; Bottenbruch, Ludwig; and Schnell, Hermann, 3,634,354.
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- Morgenstern, Karl; Schnell, Hermann; Bottenbruch, Ludwig; Court, Otto; Schwarz, Hans-Helmut; and Vernaleken, Hugo, 3,666,719.
- Schnell, Hermann; Cziesla, Manfred J.; and Bottenbruch, Ludwig, 3,692,870.
- Senge, Ferdinand; Weirauch, Kurt; and Bottenbruch, Ludwig, 3,670,051.
- Vernaleken, Hugo; Malamet, Georg; Bottenbruch, Ludwig; Krimm, Heinrich; and Schnell, Hermann, 3,687,895.
- Bottinger, Erik, to Grubers Sprangstoffabriker A/S, division of Plastprodukter. Set of containers for two liquids. 3,658,204, 4-25-72, Cl. 220-23.4.
- Bottinger, Max: See—
Bach, Heinz; Bottinger, Max; and Pabst, Heinrich, 3,652,292.
- Botto, Giuseppe. Apparatus for excavation of deep holes and trenches. 3,640,353, 2-8-72, Cl. 175-202.
- Bottomley, Brian Rogers: See—
Tittle, John Noel; Bottomley, Brian Rogers; and Warburton, Eric, 3,660,944.
- Bottoms, Harry Simister, to Lucas, Joseph, (Industries) Limited. Couplings. 3,691,790, 9-19-72, Cl. 64-23.000.
- Bottone, Salvatore, Jr.: See—
Boothe, Willis A.; and Bottone, Salvatore, Jr., 3,640,300.
- Bottomman, David L.: See—

- Desmond, John D.; and Bottorman, David L., 3,656,683.
- Bottrell, Neil L.: See—
Furlong, Owen Desmond Arthur Charles; and Bottrell, Neil L., 3,676,238.
- Botts, John C.: See—
Simmonds, Leonard B.; and Botts, John C., 3,679,926.
- Botts, Marion. Forcep instrument for stripping the contents of flexible tubes. 3,648,701, 3-14-72, Cl. 128-321.
- Botts, Marion F.; and Regei, Erik K., to Chemagro Corporation. S,S-dialkyl-amido-dithiophosphates. 3,641,222, 2-8-72, Cl. 260-959.
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- Boucheron, Bernard, to Societe Ethylene Plastique. Thiurane copolymers. 3,655,634, 4-11-72, Cl. 260-79.
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- Boudakian, Max M., to Olin Corporation. Method for the preparation of stable 4-fluoropyridine salts. 3,703,521, 11-21-72, Cl. 260-290,0hl.
- Boudart, Roger L. Method for processing papaw latex papaya to obtain papain. 3,694,315, 9-26-72, Cl. 195-66,00r.
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- Boudot, William Donald; Wood, Chester W.; and Holder, Charles A., to Dover Corporation. Automatic shut-off dispensing nozzle. 3,653,415, 4-4-72, Cl. 141-208.
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- Boudouris, Angelo, to Eprad Incorporated. Electrical junction box. 3,651,441, 3-21-72, Cl. 337-186.
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- Boudreau, Peter. Crime prevention system. 3,680,499, 8-1-72, Cl. 109-32,000.
- Bouffou, Russell D.; and Nielsen, Christian A., to Giddings & Lewis, Inc. Power tool turret assembly. 3,653,282, 4-4-72, Cl. 74-815.
- Bougaran, Marcel, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Electrolytic, secondary and primary cells. 3,650,842, 3-21-72, Cl. 136-134.
- Bougard, Jacques, to Ateliers J. Hanrez Societe Anonyme. Heater with combustion chamber located below fluid distributing means. 3,648,682, 3-14-72, Cl. 126-359.
- Bough, Dale E.: See—
White, Hollis N., Jr.; and Bough, Dale E., 3,687,578.
- Boughton, John Derek: See—
Sloboda, Mieczyslaw Herman; and Boughton, John Derek, 3,658,997.
- Boughton, Lowell D.: See—
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- Bougut, Henry A., to Motorola, Inc. Current limited battery pack. 3,686,530, 8-22-72, Cl. 317-16,000.
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- Boujori, Gerard, to Bobst, J., & Fils, S.A. Method and apparatus for optically positioning printing plates. 3,679,316, 7-25-72, Cl. 356-168,000.
- Bouknecht, Max A.: See—
Hestad, Alfred M.; and Bouknecht, Max A., 3,692,951.
- Boulanger, Gilbert; and Samoel, Alain, to Commissariat a l'Energie Atomique. Installation for ultrasonic testing. 3,678,735, 7-25-72, Cl. 73-67,700.
- Boulanger, Henry J.: See—
Dapot, Martin H.; and Boulanger, Henry J., 3,707,609.
- Boulanger, Henry J., to Texas Instruments, Incorporated. Pushbutton keyboard switch assembly with improved over center diaphragm contact. 3,684,842, 8-15-72, Cl. 260-5,00r.
- Boulanger, Roger J.: See—
Pask, Arthur H.; Sparrow, Robert E.; and Boulanger, Roger J., 3,681,536.
- Bould, Fred; and Taylor, John H., to Westinghouse Electric Corporation. Spaced-plate arc-chute for an air-break circuit breaker. 3,662,133, 5-9-72, Cl. 200-144.
- Bouligny, R. H., Inc.: See—
Dixon, William Jennings, 3,690,387.
- King, Charles S. W.; and Pierce, John H., 3,685,755.
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- Wilson, Robert W., 3,664,034.
- Wolf, Herman B., 3,666,991.
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- Boult, David Luard, to British Insulated Callender's Cables Limited. Telecommunication cables. 3,706,838, 12-19-72, Cl. 174-25,00r.
- Boulter, Thomas W.: See—
Wesson, Jerry J.; and Boulter, Thomas W., 3,678,859.
- Boultinghouse, A. C. Multiple adjustment valve. 3,645,297, 2-29-72, Cl. 137-637.3.
- Boultinghouse, Ace: See—
Procop, Alex J.; and Boultinghouse, Ace, 3,704,065.
- Boulton, Richard C. Fluidic control device. 3,680,595, 8-1-72, Cl. 137-625,480.
- Boulva, Paul. Marble game device with removable inserts. 3,690,663, 9-12-72, Cl. 273-110,000.
- Boundy, James R., to Sturtevant Engineering Co. Ltd. Machines for processing articles. 3,633,594, 1-11-72, Cl. 134-119.
- Bouras, James R., to Bouras Mop Mfg. Co. Mop head construction. 3,651,533, 3-28-72, Cl. 15-229.
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- Bourat, Guy, to Rhone-Poulenc S.A. Resins and membranes possessing ionic conductivity comprising reaction products of disul-tones and polymers containing tertiary amino groups. 3,632,685, 1-4-72, Cl. 260-884.
- Bourat, Guy; and Margraff, Rodolphe, to Rhone-Poulenc S.A. Cation exchange membranes and their preparation. 3,689,438, 9-5-72, Cl. 260-2,20r.
- Bourbeau, Frank J.: See—
Sawyer, Elbert M.; and Bourbeau, Frank J., 3,689,813.
- Bourbeau, Frank J., to General Motors Corporation. Cycloconverter silicon controlled rectifier gate signal inhibit circuit. 3,681,676, 8-1-72, Cl. 321-11,000.
- Bourbina, Gerard W., to Baker Perkins Inc. Apparatus for removing fluid from a food container. 3,659,717, 5-2-72, Cl. 210-329.
- Bourboulis, Cedric D. Surface texturizer. 3,669,069, 6-13-72, Cl. 118-102,000.
- Bourdais, Jacques, to Centre National de la Recherche Scientifique. Aminoalkylthio indoles. 3,665,016, 5-23-72, Cl. 260-268,0bc.
- Bourdo, Charles A.: See—
Hoffmann, Norbert H., 3,646,547.
- Bourette, Jean. Granulated cork and calcined fossil silica filler hot top material. 3,654,199, 4-4-72, Cl. 260-17.2.
- Bourg, Haden J., Jr.: See—
Fisher, Peter D.; Word, James C., IV; and Bourg, Haden J., Jr., 3,657,006.
- Bourg, Michel, to Frankel-Industries. Conveyor system. 3,696,752, 10-10-72, Cl. 104-148.
- Bourgault, Pierre Louis; and Fraser, George Herbert, to Johnson, Matthey & Mallory Limited. Ion exchange membrane electrochemical integrator. 3,706,013, 12-12-72, Cl. 317-231,000.
- Bourdeaux, Maurice, to Compagnie de Saint-Gobain. Method for the surface treatment of glass. 3,687,649, 8-29-72, Cl. 65-30,000.
- Bourgeois, Claude Raymond, to Societe Nouvelle de Roulements. Rolling contact bearing seals. 3,639,016, 2-1-72, Cl. 308-187.2.
- Bourgeois, Jacques, to Lesieur-Cotelle, Societe Anonyme. Machine for molding hollow plastic articles by blowing. 3,642,410, 2-15-72, Cl. 425-326.
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- Bourgeois, Jacques, to Societe a Responsabilite limitee dite SERAM. Differential servo-limiter. 3,680,586, 8-1-72, Cl. 137-501,000.
- Bourgeois, Norbert Paul. Needle selector for circular knitting machines. 3,667,253, 6-6-72, Cl. 66-50.
- Bourgeois, Norbert Paul, to Etudes et Bonneterie SA. Circular knitting-machine. 3,670,527, 6-20-72, Cl. 66-50,00r.
- Bourgeois, Yves: See—
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- Bourget, Robert L.; and Reehsinghani, Nandlal S., to Monsanto Company. Polymerization process for vinylidene monomers. 3,652,526, 3-28-72, Cl. 260-92.8.
- Bourgraf, Elroy E.; and Dunn, Robert E., to Weil, Burt. Cart having collapsible legs. 3,637,232, 1-25-72, Cl. 280-41.
- Bourgraf, Elroy E.; and Self, Kenneth R., to Ferno-Washington, Inc. Ambulance cot construction. 3,644,944, 2-29-72, Cl. 5-62.
- Bourgraf, Elroy E.; and Self, Kenneth R., to Ferno-Washington Inc. Adjustable break-away splint-stretcher. 3,653,079, 4-4-72, Cl. 5-82.
- Bourgraf, Elroy E.; and Self, Kenneth R., to Ferno-Washington Inc. Office machine cart. 3,684,307, 8-15-72, Cl. 280-36,00c.
- Bourguet, Jean M.; and Hart, Francis D., to Mobil Oil Corporation. Catalytic cracking process. 3,669,903, 6-13-72, Cl. 252-455.
- Bouricius, Willard G.; Carter, William C.; Roth, John P.; and Schneider, Peter R., to International Business Machines Corporation. Triple modular redundancy/sparing. 3,665,173, 5-23-72, Cl. 235-153,000.
- Bouricius, Willard G.; Carter, William C.; Duke, Keith A.; Roth, John P.; and Schneider, Peter R., to International Business Machines Corporation. Error tolerant arithmetic logic unit. 3,665,174, 5-23-72, Cl. 235-153,000.
- Bouricius, Willard G.; Carter, William C.; Roth, John P.; and Schneider, Peter R., to International Business Machines Corporation. Dynamic storage address blocking to achieve error toleration in the addressing circuitry. 3,665,175, 5-23-72, Cl. 235-153,000.
- Bouricius, Willard G.; Carter, William Caswell; Roth, John P.; and Schneider, Peter Robert, to International Business Machines Corporation. Status switching in an automatically repaired computer. 3,665,418, 5-23-72, Cl. 340-172,500.
- Bourjot, Marcel: See—
Bosquain, Maurice; Bourjot, Marcel; and Kirsch, Maurice, 3,700,030.
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- Bourke, Edgar R., II; and Snow, Robert C., to Digital Security Systems, Inc. Currency dispensing apparatus. 3,675,816, 7-11-72, Cl. 221-13,000.
- Bourke, Robert F.; and Simons, Jon W., to Allis, Louis, Company, The. Tolerable voltage control circuit. 3,656,006, 4-11-72, Cl. 307-252.
- Bourland, Andre, to Societe Anonyme d'Explosifs Industriels-Celtite. Arrangements for anchoring supporting pins or bolts. 3,699,687, 10-24-72, Cl. 61-45,00b.
- Bourne, David: See—
Ferris, Ford, 3,638,870.
- Bourne, Douglas J.; and Lamb, Frank E., to Duval Corporation. Method of producing soda ash. 3,656,892, 4-18-72, Cl. 23-63.
- Bourne, Ronald F., to Asbestos Grading Equipment Company (South Africa) (Proprietary) Limited, The. Dust collectors. 3,648,442, 3-14-72, Cl. 55-294.
- Bournez, Lucien. Apparatus for handling rolls of thin metal strips. 3,687,391, 8-29-72, Cl. 242-79,000.
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- Froebe, Ronald L.; and Hatch, Howard H., 3,704,436.
- Learned, Allen J.; and Provance, Jason D., 3,659,240.
- Payne, Robert L., 3,659,245.
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Gorsuch, Reynolds G., 3,633,576.
- Gorsuch, Reynolds G., 3,690,318.
- Bourquard, Gaston; and Coffy, Rene Louis, to Societe Nationale Industrielle Aerospatiale. Rotor construction. 3,669,566, 6-13-72, Cl. 416-134,000.
- Bourque, Edward L., to Sanders Associates, Inc. Apparatus for providing sensitivity-time control for radar receivers. 3,659,290, 4-25-72, Cl. 343-5,0sm.
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- Bourrouilh, Bernard, to Entreprise de Recherches et d'Activites Petrolieres Elf. Optical filtering method and device for data-processing. 3,633,998, 1-11-72, Cl. 350-162.
- Bourseau, Robert I., to Architectural Signing, Inc. Negative insert holder for business directories. 3,660,918, 5-9-72, Cl. 40-64.
- Boursin, Rene A., to Sovcor Electronique. Encapsulated cardwood type electronic or electrical component assembly. 3,697,818, 10-10-72, Cl. 317-101-cw.
- Bourton, Hubert. Snow vehicle for distributing dust on snow surfaces. 3,675,857, 7-11-72, Cl. 239-668,000.
- Bousquet, Gilles; and Rambert, Andre, to Association de l'Ecole Catholique d'Arts et Metiers de Lyon. Total knee prosthesis. 3,696,446, 10-10-72, Cl. 3-7,000.
- Boussekey, Bernard: See—
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- Boussely, Jean, to Societe Sapchim-Fournier-Cimag. Glyceryl trimontantate. 3,691,219, 9-12-72, Cl. 260-410,700.
- Boussin, Serge P.: See—
Alric, Andre A. L.; Porte, Gilbert R. A.; Glotin, Joseph M. H.; Higounenq, Francis J.; and Boussin, Serge P., 3,703,675.
- Boussois Souchon Neuvessel: See—
Bercheux, Marcel, 3,631,629.
- Jacquot, Michel; and Amicel, Charles, 3,698,619.
- Lalague, Christian, 3,667,162.
- Prislan, Georges, 3,692,508.
- Boustany, Kamel, to Monsanto Company. Certain cycloalkylsulfenamides as prevulcanization inhibitors. 3,640,976, 2-8-72, Cl. 260-79.5.
- Boustany, Kamel; and D'Amico, John Joseph, to Monsanto Company. Benzothiazole sulfenamides. 3,689,467, 9-5-72, Cl. 260-79,50b.
- Boustany, Kamel; and Coran, Aubert Yaucher, to Monsanto Company. Discontinuous cellulose reinforced elastomer. 3,697,364, 10-10-72, Cl. 161-59,000.
- Boutet, Jean. Testing device for threaded assembling means or fasteners. 3,638,479, 2-1-72, Cl. 73-88.
- Bouthors, Pierre: See—
Reraud, Jacques C.; and Bouthors, Pierre, 3,703,320.

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- Boutincau, Jean-Louis, to Compagnie Generale d'Electricite. Pockels cells. 3,659,917, 5-2-72, Cl. 350-160.
- Bouton, Thomas; and Futamura, Shingo, to Firestone Tire & Rubber Company, The. Process for preparing colorless, high-vinyl diene polymers. 3,686,158, 8-22-72, Cl. 260-94.20m.
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- Boutwell, Ernest D.; and Longfellow, Jack M., to United States of America, Army, mesne. Test circuits for exploding bridgewire power supply. 3,706,031, 12-12-72, Cl. 324-122.000.
- Bouvet, Rene J.; and Daenineckx, Jean Georges, to Societe Anonyme d'ite: L'Oreal. Castor oil stabilized dimethyl dichlorovinyl phosphate insecticidal vapor-emitting solutions. 3,636,207, 1-18-72, Cl. 424-219.
- Bouvier, Anton, to Owens-Illinois, Inc. Fluid bearing structure. 3,649,089, 3-14-72, Cl. 308-9.
- Bouwer, Adrianus Gerardus: See—
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- Bouygues, Jean: See—
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Marcy, Raymond; Bouygues, Jean; and Lacombat, Michel, 3,692,413.
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- Bouzounic, Lucien, to Etablissements Recoules & Fils, Industrielle (France). Tool-carrier with adjustable pre-determined axial travel. 3,689,171, 9-5-72, Cl. 408-112.000.
- Bovard, Robert M., to A-T-O Inc. Carbon dioxide absorbing chemical. 3,684,712, 8-15-72, Cl. 252-45.00f.
- Bovarnick, Bennett; Eberts, Robert E.; and Nadkarni, Ravindra, to Little, Arthur D., Inc. Method for forming mixed oxide heterogeneous catalysts. 3,701,739, 10-31-72, Cl. 252-454.000.
- Bovasso, Bernard X. Board game apparatus. 3,643,956, 2-22-72, Cl. 273-130.
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- Bovett, Duane E., to Burroughs Corporation. Dual clock memory access control. 3,703,707, 11-21-72, Cl. 340-172.500.
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- Bovio, Ilario, to Olivetti, Ing. C., & C., S.p.A. Serial printing mechanism. 3,683,800, 8-15-72, Cl. 101-93.00c.
- Bow, William J.; and Pollard, Richard J., to Foster Wheeler Corporation. Holding system for steam power cycle. 3,705,494, 12-12-72, Cl. 60-105.000.
- Bowcott, Roy Price, to Lucas, Joseph, (Industries) Limited. Starter motors for internal combustion engines. 3,663,825, 5-16-72, Cl. 290-38.
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- Bowden, Billy W. Seat for ball or gate valves. 3,667,727, 6-6-72, Cl. 261-122.
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- Bowden Controls Limited: See—
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- Bowden, Wade R., Jr.: See—
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- Bowditch, Hoel L., to Foxboro Company, The. Pneumatic interconnection board. 3,631,881, 1-4-72, Cl. 137-271.
- Bowe, Bohler & Weber: See—
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- Bowe, Bohler & Weber KG Maschinenfabrik: See—
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- Bowell, James P., to Little, Miller, Giant Co., Inc. Poultry brooder burner housing. 3,691,996, 9-19-72, Cl. 119-32.000.
- Bowen, Burlie R.; and Heemer, William L., Jr. Folding shoe for use in a packaging machine. 3,636,826, 1-25-72, Cl. 93-59.
- Bowen, David O.: See—
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- Bowen, Elba W., to Metals Engineering Corporation. Quick release holder. 3,672,619, 6-27-72, Cl. 248-113.000.
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- Bowen, Gilbert John. Apparatus for lens generation. 3,685,210, 8-22-72, Cl. 51-33.00w.
- Bowen, Howard: See—
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- Bowen, Howard; Henderson, David L.; and Wallace, Richard R., to Harward Company, Inc., The. Item scheduling system and apparatus therefor. 3,655,945, 4-11-72, Cl. 235-61.1.
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- Bowen, John G.: See—
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- Bowen, John W.; and Perkins, Donald D., to Columbus Electric Manufacturing Co. Non-snap-acting switch devices with S-shaped contact spring blade. 3,683,144, 8-8-72, Cl. 200-166.00j.
- Bowen, Max E. Pressurized applicator for foamed medications and sanitary replaceable applicator tip therefor. 3,648,695, 3-14-72, Cl. 128-225.
- Bowen, Rafael L., to United States of America, Health, Education and Welfare. Adhesion promoting dental materials. 3,635,889, 1-18-72, Cl. 260-47.
- Bowen, Richard E.; and Kleinschmidt, Walter J., to Lilly, Eli, and Company. Method for improving weight gains and reducing gross lesions in chickens exposed to Marek's disease. 3,632,748, 1-4-72, Cl. 424-115.
- Bowen, Ronald K.: See—
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- Bowen Tools, Inc.: See—
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Osmun, Dean W.; and Slator, Damon T., 3,689,111.
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- Bowen, William C.: See—
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- Bowen, William W., to Du Pont de Nemours, E. I., and Company. Yarn treating jet. 3,703,751, 11-28-72, Cl. 28-1400.
- Bower, Barton K.; and Long, Wendell P., to Hercules Incorporated. Polymerization of 1-olefins with tetrakis (bicycloheptyl) chromium compounds as catalysts. 3,666,743, 5-30-72, Cl. 260-93.700.
- Bower, Barton K., to Hercules Incorporated. Tris(bicycloheptyl)chromium. 3,704,259, 11-28-72, Cl. 260-438.50r.
- Bower, Barton K., to Hercules Incorporated. Tetra (bicycloheptyl) transition metal compounds. 3,705,916, 12-12-72, Cl. 260-429.300.
- Bower, Exil E. Lateral adjustment means for radial arm saws. 3,664,389, 5-23-72, Cl. 143-6.00a.
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- Bower, James C. Control valve and discharge hose for pressurized fire extinguishers. 3,702,637, 11-14-72, Cl. 169-31.00r.
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- Bower, Kenneth F., to United States of America, National Aeronautics and Space Administration. Buffered analog converter. 3,648,275, 3-7-72, Cl. 340-347.
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Shneider, Harold M.; and Bower, Robert G., 3,701,524.
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- Bower, Walter, to Storey, Thos. (Engineers) Limited. Floating landing stages. 3,643,448, 2-22-72, Cl. 61-48.
- Bowerman, William R. Compensated phonograph turntable. 3,674,278, 7-4-72, Cl. 274-39.00a.
- Bowerman, William R. Flushing system. 3,680,150, 8-1-72, Cl. 4-57.00p.
- Bowerman, William R. Data processing card. 3,686,480, 8-22-72, Cl. 235-61.12n.
- Bowerman, William R. Fastener. 3,686,616, 8-22-72, Cl. 339-38.000.
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- Bowers, Daniel G., to Eastman Kodak Company. Switch apparatus. 3,641,297, 2-8-72, Cl. 200-166.
- Bowers, David L., to General Electric Company. Body organ stimulator with interference rejector. 3,677,251, 7-18-72, Cl. 128-419.000.
- Bowers, Harry J., Jr., to General Electric Company. Photoflash lamp array with automatic switching. 3,668,421, 6-6-72, Cl. 307-117.
- Bowers Instrument Company: See—
Bowers, John C., 3,693,590.
- Bowers, Jack R.: See—
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- Bowers, Jeffrey L. Elastic projectile and tree-like target. 3,701,531, 10-31-72, Cl. 273-95.00r.
- Bowers, John C., to Bowers Instrument Company. Animal conditioned avoidance apparatus. 3,693,590, 9-26-72, Cl. 119-1.000.
- Bowers, John O., Jr., to General Dynamics Corporation. Multiplexing systems. 3,665,108, 5-23-72, Cl. 179-15.0bl.
- Bowers, John R., to Phillips Petroleum Company. Lambda supported pipeline for arctic use. 3,648,468, 3-14-72, Cl. 61-72.1.
- Bowers, Kenneth. Radiation sensitive glossometer with means to compensate for environmental contaminants. 3,636,361, 1-18-72, Cl. 250-219.
- Bowers, Norman John: See—
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- Bowers, Raymond S., Jr.: See—
Watson, Earnest B., 3,646,833.
- Bowers, Regis D., to Chausse Manufacturing Co., Inc. Steam cleaner. 3,701,343, 10-31-72, Cl. 126-271.20r.
- Bowers, Richard Charles, to Shell Oil Company. Zero time constant filter using sample-and-hold technique. 3,633,091, 1-4-72, Cl. 321-18.
- Bowers, Russell L.; and Napier, Larry E., to Hamilton Cosco, Inc. Electrolytic stripping composition. 3,649,491, 3-14-72, Cl. 204-146.
- Bowers, Thomas S., to Hansen, A. L., Mfg. Co. Load holding device. 3,698,678, 10-17-72, Cl. 248-361.000.
- Bowes, William M.: See—
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- Bowie, John S., to Bar Investment Company, Inc. Low velocity gas scrubber. 3,640,513, 2-8-72, Cl. 261-78.
- Bowie, William J.: See—
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- Bowker, John F.; and Odegard, Warren H., to Black Clawson Company, The. Log diameter scanner including a plurality of photodetectors. 3,698,818, 10-17-72, Cl. 356-160.000.
- Bowker, John Kent, to Ittek Corporation. Interferometer of the center balance type. 3,671,130, 6-20-72, Cl. 356-106.000.
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- Bowlby, James F. G. Single use film developer and film/developer package coupling means therefor. 3,680,464, 8-1-72, Cl. 95-89.00r.
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- Bowles, Arnold Gordon, to National Forge Company. Pressure vessel power lead-through. 3,660,593, 5-2-72, Cl. 174-152.
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- Bowles Engineering Corporation: See—
Bauer, Peter, 3,645,442.
- Bowles, Romald E., 3,683,166.
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Bauer, Peter, 3,675,669.
- Bowles, Romald E.; and Stouffer, Ronald D., 3,687,147.
- DiCamillo, Carmine V., 3,667,492.
- Freeman, Peter A., 3,675,672.
- Kopera, Anthony, 3,677,276.
- Proctor, Edward D., 3,687,173.
- Schulman, Edward H., 3,645,892.
- Stouffer, Ronald, 3,695,607.
- Turek, Robert F., 3,705,534.
- Bowles, Harry L. Cyclone incinerator. 3,654,881, 4-11-72, Cl. 110-8.
- Bowles, Lloyd W.: See—
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- Bowles, Romald E., to Bowles Engineering Corporation. Fluidic systems having adaptive gain dependent upon input signal parameters. 3,683,166, 8-8-72, Cl. 235-200.000.
- Bowles, Romald E.; and Stouffer, Ronald D., to Bowles Fluidics Corporation. Jet velocity augmentation apparatus. 3,687,147, 8-29-72, Cl. 137-1.000.
- Bowles, William R., to Phillips Petroleum Company. Method and apparatus for forming a foundation-leg assembly for and offshore platform. 3,677,113, 7-18-72, Cl. 61-46.000.
- Bowling, Clarence C. Containers for fixing, holding, and storage of dead insect specimen. 3,698,101, 10-17-72, Cl. 35-20.000.
- Bowling, Edward L., to Cornell-Dubilier Electric Corporation. Electrolytic capacitor with extended electrode for support in the container. 3,681,666, 8-1-72, Cl. 317-230.000.
- Bowling, George W., to United States of America, Army. Apparatus for continuous emulsification. 3,684,251, 8-15-72, Cl. 259-8.000.
- Bowling, George W.; Conlisk, Peter J.; and Lenzen, Kenneth H., to Monsanto Company. Damping system. 3,691,712, 9-19-72, Cl. 52-393.000.
- Bowling, Harold F.: See—
Hall, Maurice B., 3,670,428.
- Bowling, Joseph L., Jr., to Carborundum Company, The. Abrasive blast cleaning system. 3,694,964, 10-3-72, Cl. 51-9.000.
- Bowman, Arthur J., Jr.: See—
Milanowski, Floyd J.; and Bowman, Arthur J., Jr., 3,662,607.
- Bowman, Bobby R.: See—
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- Bowman, Edward L., to Phillips Petroleum Company. Zinc-containing polymer compositions. 3,687,881, 8-29-72, Cl. 260-23.70m.
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- Bowman, James L.: See—
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- Bowman, Joe; and Edwards, James D., to Scott & Fetzer Company, The. Sequential timer. 3,683,711, 8-15-72, Cl. 74-142.000.
- Bowman, John Michael, to Du Pont de Nemours, E. I., and Company. Guanidine and amidine accelerators for vulcanization of fluoroelastomers. 3,686,143, 8-22-72, Cl. 260-470.0up.

- Bowman, Karl R.; Jemison, Lawrence L., Jr.; and Parker, Orval H., to General Motors Corporation. Anti-glare rear view mirror with housing molded of plastic material. 3,692,387, 9-19-72, Cl. 350-281.000.
- Bowman, Mark M., Jr., to Phillips Petroleum Company. Repelling of marine animal pests. 3,679,466, 7-25-72, Cl. 117-127.000.
- Bowman, P. H., Company, Inc.: See—
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- Bowman, Paul F. Glue dobbing and tray forming method and apparatus. 3,636,920, 1-25-72, Cl. 118-243.
- Bowman, Paul F., to Broach Systems, Inc. Box machine. 3,640,189, 2-8-72, Cl. 93-49.
- Bowman, Ronald W.; and Hall, Alvin Lee, to Shell Oil Company. Control of a steam zone. 3,682,244, 8-8-72, Cl. 166-252.000.
- Bowman, Vernon D., to Bowman Enterprises, Inc. Air heater and exhaust gas diluting apparatus for incinerator. 3,678,869, 7-25-72, Cl. 110-8.00r.
- Bowman, Vernon D. Smokeless anti-toxic burner apparatus. 3,702,756, 11-14-72, Cl. 23-277.00c.
- Bowman, Wayne A., to Eastman Kodak Company. Photographic element comprising amine containing polymers. 3,702,249, 11-7-72, Cl. 96-84.00r.
- Bowman, William G., to Petro-Tex Chemical Corporation. Purification of poly(maleic acid). 3,634,503, 1-11-72, Cl. 260-537.
- Bowmar/Tic, Inc.: See—
Krajewski, Edward Z., 3,666,904.
- Bown, Delos E.: See—
Schultz, Henry G.; Williams, Herschel C.; Neureiter, Norman P.; and Bown, Delos E., 3,655,718.
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- Bowne, Lloyd Marshall: See—
Knopf, Robert John; Bowne, Lloyd Marshall; and Hiser, Robert Darrell, 3,663,506.
- Bowring, David John, to G.K.N. Sankey Limited. Coin-operated vending machines. 3,703,229, 11-21-72, Cl. 194-10.000.
- Bowring, Graeme, to Schermuly Limited. Striker mechanisms for percussion igniters. 3,685,451, 8-22-72, Cl. 102-70.000.
- Bowser, Gary L.; and Lenhardt, Roger D., to Owens-Illinois, Inc. Liquid dispenser. 3,661,189, 5-9-72, Cl. 141-1.
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- Bowser, George H.; Shoop, Vernon A.; Pyzewski, Stanley J.; Mazzone, Renato J.; and Bologna, John P., to PPG Industries, Inc. Method for fabricating a multiple glazed unit. 3,669,785, 6-13-72, Cl. 156-109.000.
- Bowser, John O., to Aluminum Company of America. Insulation support. 3,664,079, 5-23-72, Cl. 52-479.
- Bowser, Merle L.: See—
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- Bowthorpe-Hellermann Limited: See—
Bloch, Walter; and Stevens, Christopher Richard, 3,702,371.
- Bowyer, Kern M.; and Coursen, David L., to Du Pont de Nemours, E. I., and Company. Assembly for recognizing underwater acoustic signals. 3,660,808, 5-2-72, Cl. 340-5.
- Box, E. O., Jr.; and Uhrick, David A., to Phillips Petroleum Company. Highly calcined support for catalytic dehydrogenation. 3,641,182, 2-8-72, Cl. 260-680.
- Box, E. O., Jr.; Drehman, Lewis E.; and Farha, Floyd E., Jr., to Phillips Petroleum Company. Tin impregnation regeneration of group VIII reforming-dehydrogenation catalysts. 3,674,706, 7-4-72, Cl. 252-412.000.
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- Box Innards, Inc.: See—
Peters, Charles L., 3,685,401.
Peters, Charles L., 3,691,859.
- Box, Theodor. High-impact plastic carrying and stacking case with hinged cover. 3,655,088, 4-11-72, Cl. 220-29.000.
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- Boxman, Peter; and Frederik, Johannes van Roessel, to Philips Broadcast Equipment Corporation. Chroma key circuit. 3,678,182, 7-18-72, Cl. 178-5.40r.
- Boxton-Beel, Inc.: See—
Weitz, Harry, 3,659,933.
- Boy, Peter; Kohler, Heinz; and Lucke, Heinz, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Thread-cutting mechanism for circular-knitting machines. 3,648,485, 3-14-72, Cl. 66-134.
- Boyce, Alden C., to Rota-Matic, Inc. Method of and apparatus for cooling of rotational casting apparatus. 3,640,338, 2-8-72, Cl. 165-48.
- Boyce, David C.: See—
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- Boyce, Kenneth D.: See—
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- Boyce, Kenneth D., to Diversified Electronics Co., Inc. Calculator input means to bypass conventional keyboard input. 3,654,449, 4-4-72, Cl. 235-156.
- Boyce, Kenneth E.: See—
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- Boyce, Walter A., to Westinghouse Electric Corporation. Subminiature electric lamp having a composite envelope. 3,636,398, 1-18-72, Cl. 313-317.
- Boychem Corporation, mesne: See—
Emerson, Carl D.; and Aichenegg, Paul C., 3,683,000.
- Boychuk, Ronald R.; and Slettemoen, Sigmund I., to Canadian Ingersoll-Rand Company, Limited. Water valve for rock drills. 3,656,508, 4-18-72, Cl. 137-495.
- Boyd, Carl L., to Eastman Kodak Company. Multiple altitude signaling device. 3,668,621, 6-6-72, Cl. 340-27.00r.
- Boyd, Charles L.: See—
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- Boyd, Charles L.; and Roach, James D., to Halliburton Company. Magnetic pickup element adapter for flowmeters. 3,680,379, 8-1-72, Cl. 73-231.00r.
- Boyd, Clarence L.: See—
Boyd, Loyce M.; and Boyd, Clarence L., 3,700,057.
- Boyd, David M.: See—
Greenwood, Arthur R.; Heinze, Walter W.; Schnitta, Edward; and Boyd, David M., 3,706,536.
- Boyd, David M., to Universal Oil Products Company. Fluid distribution for fluid-solids contacting chambers. 3,652,450, 3-28-72, Cl. 208-146.
- Boyd, David M., to Universal Oil Products Company. Fluid distribution for fluid-solids contacting chambers. 3,652,451, 3-28-72, Cl. 208-146.
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- Boyd, David M., Jr.: See—
Bajek, Walter A.; and Boyd, David M., Jr., 3,668,392.
- Boyd, Eugene J., to United States Tobacco Company. Reciprocating twister pipe cleaner machine. 3,646,743, 3-7-72, Cl. 57-5.
- Boyd, Gary Delane; Buehler, Ernest; and Gandrud, William Bentley, to Bell Telephone Laboratories, Incorporated. Coherent optical devices employing zinc germanium phosphide. 3,675,039, 7-4-72, Cl. 307-88.300.
- Boyd, George C.: See—
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- Boyd, George M. Navigation aid. 3,692,238, 9-19-72, Cl. 235-88.000.
- Boyd, James W.; and Bessett, Clifford H., to Packaging Corporation of America. Carton lock construction. 3,645,436, 2-29-72, Cl. 229-44.
- Boyd, James W.; and Bessett, Clifford H., to Packaging Corporation of America. Tray construction. 3,701,447, 10-31-72, Cl. 217-26.500.
- Boyd, Joe T.; and Jacumin, Emile, Jr., to Deering Milliken Research Corporation. Textile material with soil release characteristics. 3,632,421, 1-4-72, Cl. 117-138.8.
- Boyd, John A. Incinerator conversion means. 3,685,439, 8-22-72, Cl. 100-215.000.
- Boyd, John A. Chute sanitizer and fire extinguisher. 3,690,560, 9-12-72, Cl. 239-195.000.
- Boyd, John A. Trash compaction shelter incorporating a removable container. 3,691,943, 9-19-72, Cl. 100-215.000.
- Boyd, John A. Kitchen compactor. 3,691,944, 9-19-72, Cl. 100-229.00a.
- Boyd, John A. Feeding unit. 3,702,650, 11-14-72, Cl. 193-34.000.
- Boyd, Joseph Emmett. Scaffolding. 3,682,271, 8-8-72, Cl. 182-152.000.
- Boyd, Loyce M.; and Boyd, Clarence L. Foldable transportation device. 3,700,057, 10-24-72, Cl. 180-1.00r.
- Boyd, Michael David. Rotary fluid flow machines. 3,667,876, 6-6-72, Cl. 418-68.
- Boyd, Reed L. Rotating disc scraper. 3,678,532, 7-25-72, Cl. 15-236.000.
- Boyd, Ronald G.: See—
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- Boyd, William R.; and Franklin, Robert C., to Beckman Instruments, Inc. Overspeed detection system. 3,636,545, 1-18-72, Cl. 340-263.
- Boyd, William Richard; and Franklin, Robert C., to Beckman Instruments, Inc. Differential amplifier circuit. 3,667,063, 5-30-72, Cl. 330-2.000.
- Boyd, Wilton E., to General Electric Company. Electric vacuum cleaner construction. 3,634,905, 1-18-72, Cl. 15-350.
- Boyd, Woodrow. Motor powered plow. 3,647,005, 3-7-72, Cl. 172-259.
- Boydell, Kenneth Raymond, to Dowty Technical Developments, Limited. Hydraulic apparatus. 3,636,818, 1-25-72, Cl. 91-475.
- Boydell, Kenneth Raymond, to Dowty Technical Developments Limited. Hydraulic apparatus. 3,647,321, 3-7-72, Cl. 417-222.
- Boydell, Kenneth Raymond; and Flint, John Christopher Eglington, to Dowty Technical Developments Limited. Hydraulic apparatus. 3,667,867, 6-6-72, Cl. 417-222.000.
- Boydman, Hyman P.: See—
Tepper, Sidney; and Boydman, Hyman P., 3,641,703.
- Boydston, Edward A. Hydraulic jump captured air bubble vessel. 3,664,289, 5-23-72, Cl. 114-67.
- Boye, Erhard; and Landin, Eric, to Gunnebo Bruks Aktiebolag. Fastening clip intended to be fastened with a nail driving tool. 3,638,892, 2-1-72, Cl. 248-300.
- Boyer & Abbott Enterprises, Inc.: See—
Boyer, Oscar E., 3,665,897.
- Boyer, Barton H., III, to Varo Inc. Contact printer for photosensitive material. 3,644,039, 2-22-72, Cl. 355-85.
- Boyer, Charles B.: See—
Gripshover, Paul J.; Boyer, Charles B.; and Harth, George H., III, 3,633,264.
- Boyer, Charles D., to Allegheny Ludlum Steel Corporation. Surface finishing. 3,658,603, 4-25-72, Cl. 148-6.16.
- Boyer, Fred S. Locking devices. 3,677,434, 7-18-72, Cl. 220-59.000.
- Boyer, Fred S. Locking devices. 3,706,390, 12-19-72, Cl. 220-25.000.
- Boyer, George Wesley, to Leach Corporation. Tape cartridge. 3,650,495, 3-21-72, Cl. 242-192.
- Boyer, George Wesley, to Leach Corporation. Tape transport assembly. 3,656,705, 4-18-72, Cl. 242-199.
- Boyer, Jackson S.: See—
Bathgate, Robert J.; and Boyer, Jackson S., 3,639,322.
Cassar, Richard D.; and Boyer, Jackson S., 3,632,846.
Cassar, Richard D.; and Boyer, Jackson S., 3,644,284.
Mills, Ivor W.; Dimeler, Glenn R.; Kirk, Merritt C., Jr.; and Boyer, Jackson S., 3,699,071.
- Boyer, Jacques, to Societe Rhodiaca. Double-twist spindle. 3,640,060, 2-8-72, Cl. 57-58.84.
- Boyer, John R.; and Scarlett, Charles C. Pole-top structure for electric distribution lines. 3,649,740, 3-14-72, Cl. 174-43.
- Boyer, Joseph E., to Owens-Illinois, Inc. Apparatus for trimming blown plastic articles. 3,677,454, 7-18-72, Cl. 225-99.000.
- Boyer, Joseph M. Tunable radio antenna. 3,680,135, 7-25-72, Cl. 343-742.000.
- Boyer, Lola Elizabeth: See—
Boyer, Richard G.; and Boyer, Lola Elizabeth, 3,652,092.
- Boyer, Lyndon D.; Coldiron, Arnold L.; and Wong, Soon Y., to Continental Oil Company. Process for producing free halogen from hydrogen halide and utilizing the free halogen in halogenation reactions. 3,655,801, 4-11-72, Cl. 260-671.
- Boyer, Lynn Forrest; and Johnson, Anderson Forbes, Jr., to Western Electric Company, Incorporated. Selective coating. 3,695,928, 10-3-72, Cl. 117-212.000.
- Boyer, Marcel Louis, to C.I.T.-Compagnie Industrielle des Telecommunications. Single sideband system with means for compensating for doppler shift. 3,634,766, 1-11-72, Cl. 325-65.
- Boyer, Marcel Louis, to CIT-Compagnie Industrielle des Telecommunications. Control arrangement for narrow band switching filter. 3,639,852, 2-1-72, Cl. 331-1.
- Boyer, Marcel-Louis, to C.I.T.-Compagnie Industrielle des Telecommunications. Control circuit for inductive loads. 3,634,733, 1-11-72, Cl. 317-148.
- Boyer, Marcel-Louis. Vibration damping system for pinch roller. 3,693,861, 9-26-72, Cl. 226-177.000.
- Boyer, Nicodemus E., to Borg-Warner Corporation. Self-extinguishing polymeric compositions. 3,632,544, 1-4-72, Cl. 260-30.4.
- Boyer, Oscar E., to Boyer & Abbott Enterprises, Inc. Steam injection device for internal combustion engine. 3,665,897, 5-30-72, Cl. 123-25.00b.
- Boyer, Peter W., to Bendix Corporation. The Detent mechanism for brake booster. 3,646,850, 3-7-72, Cl. 91-391.
- Boyer, Richard G.; and Boyer, Lola Elizabeth. Astrology board game apparatus. 3,652,092, 3-28-72, Cl. 273-134.
- Boyer, Robert A.; Schulz, Arthur A.; and Schatzman, Edmond A., to Ralston Purina Company. Method of preparing rehydratable dehydrated protein products. 3,644,121, 2-22-72, Cl. 99-17.
- Boyer, Robert A.; Schulz, Arthur A.; Oborsh, Edward V.; and Brown, Arthur V., to Ralston Purina Company. Textured protein products. 3,662,673, 5-16-72, Cl. 99-17.
- Boyer, Simone L.; and Caridi, Roger, to Eastman Kodak Company. Method of spectrally sensitizing photographic silver halide emulsions. 3,676,147, 7-11-72, Cl. 96-130.000.
- Boyer, Wesley D. Air leveling system for an automotive vehicle. 3,633,935, 1-11-72, Cl. 280-124.
- Boyer, Wesley D., to Ford Motor Company. Ignition system supplying continuous source of sparks. 3,666,989, 5-30-72, Cl. 315-219.000.
- Boyer, William M.; and Hattori, Kiyoshi. Novel fiber glass-reinforced resin compositions and processes for their preparation. 3,654,219, 4-4-72, Cl. 260-41.5.
- Boyes, Bill A. Golf cup retaining holder. 3,643,944, 2-22-72, Cl. 273-34.
- Boyes, David W.: See—
Caroselli, Remus F.; Mastrianni, Vincenzo; and Boyes, David W., 3,632,380.
Caroselli, Remus F.; Mastrianni, Vincenzo; and Boyes, David W., 3,649,333.
- Boyhont, Donald S.; and Souders, Marvyn L., to Fuller Company. Pulverulent material conveying apparatus. 3,704,917, 12-5-72, Cl. 302-50.000.
- Boyko, Eugene S.; and Campbell, Joseph. Fabrication of nuclear fuel assemblies and resultant product. 3,683,148, 8-8-72, Cl. 219-137.000.
- Boylan, Francis J., to Hercules Incorporated. Method of abating foam formation in aqueous systems. 3,705,859, 12-12-72, Cl. 252-321.000.
- Boylan, Jack B.; and Sturwald, Robert J., to Emery Industries, Inc. Flexibilized phenol-formaldehyde resins. 3,679,617, 7-25-72, Cl. 260-19.00r.
- Boylan, John F. Filter cleaning device. 3,665,547, 5-30-72, Cl. 15-406.000.
- Boylan, Joseph S., to McNeil Corporation. In-plant cleaning system. 3,675,849, 7-11-72, Cl. 239-124.000.
- Boylan, Thomas E., to Norcross, Inc. Display rack. 3,687,091, 8-29-72, Cl. 108-60.000.
- Boylard, Albert Henry John: See—
Grimston, Roger Anthony; and Boyland, Albert Henry John, 3,649,991.
- Boyle, Donald Francis, to Motorola, Inc. Ultrasonic metallic sheet-frame bonding. 3,698,075, 10-17-72, Cl. 29-470.100.
- Boyle, John P.; Murphy, Clarence R.; and Walsh, William L., to Gulf Research & Development Company. Hydrobromination of alpha-olefins. 3,699,179, 10-17-72, Cl. 260-663.000.
- Boyle, William Joseph, Jr., to Delta Marine Control; division of Unitec Industries, Inc. Universal beam clamp. 3,660,871, 5-9-72, Cl. 24-73.
- Boyles, Elmo N., to Disco Industries, Inc. Disc brake apparatus. 3,637,053, 1-25-72, Cl. 188-71.1.
- Boyles, Elmo N., to Disco Industries, Inc. Disc brake apparatus. 3,698,518, 10-17-72, Cl. 188-72.500.
- Boyles, Homer T.: See—
Moore, Paul A.; and Boyles, Homer T., 3,638,681.
- Boyles Industries Limited, mesne: See—
Wolda, Tiete O., 3,704,755.
Wolda, Tiete O., 3,704,756.
- Boyles, Robert L.: See—
Polonsky, Samuel; and Boyles, Robert L., 3,683,524.
- Boyles, Robert L., to General Electric Company. Digital display indicator. 3,683,523, 8-15-72, Cl. 40-28.00c.
- Boyme, Theodore, to National Can Corporation. Soldering flux. 3,689,327, 9-5-72, Cl. 148-23.000.
- Boyne, Ivor Fenwick, to GKN Windsor Limited. Twin screw extrusion presses. 3,690,623, 9-12-72, Cl. 259-192.000.
- Boynton, James S.: See—
Reed, Everett E.; and Boynton, James S., 3,674,375.
- Boynton, Richard Studley. Moment of inertia measuring instrument. 3,693,413, 9-26-72, Cl. 73-65.000.
- Boyriven, Paul, to Compagnie Industrielle de Mecanismes. Safety device for electrical window. 3,662,491, 5-16-72, Cl. 49-28.000.
- Boyriven, Paul, to Compagnie Industrielle de Mecanismes. Ball or roller fastening device. 3,671,064, 6-20-72, Cl. 292-45.000.
- Boyriven, Paul, to Compagnie Industrielle de Mecanismes. Safety device for electrical window regulator. 3,702,960, 11-14-72, Cl. 318-266.000.
- Boyse, Alan: See—
Hughes, Ronald William; and Boyse, Alan, 3,699,941.
- Boysel, Lee L.: See—
Faith, Jack L.; Boyse, Lee L.; and Murphy, Joseph P., 3,702,945.
- Boysen, Gerd C.; and Hannula, Raymond H., to Allen-Bradley Company. Coil plate assembly. 3,691,493, 9-12-72, Cl. 336-65.000.
- Boyte, Jack D. Golf club swing training aid. 3,679,214, 7-25-72, Cl. 273-189.00r.
- Boyter, Walter C.: See—
Murray, Coyt E.; and Boyter, Walter C., 3,646,746.
- Bozanic, Donald A.; Minarik, Ronald W.; and Mergerian, Dickron, to Westinghouse Electric Corporation. Electron spin echo system having RF pulse inversion preparation of the spin echo sample. 3,663,952, 5-16-72, Cl. 324-50r.

Bozanic, Donald A.; Mergerian, Dickron; and Minarik, Ronald W., to Westinghouse Electric Corporation. Broadband zero field exchange echo system. 3,671,855, 6-20-72, Cl. 324-500.

Bozano, Michel, to Societe Rhodiacta. Fancy yarn, and process and device producing it. 3,683,610, 8-15-72, Cl. 57-140.00j.

Bozarth, Joseph L.: See—
Dumesnil, Maurice E.; Hewitt, Robert R.; and Bozarth, Joseph L., 3,650,778.

Bozec, Christian: See—
Gandon, Louis; Bozec, Christian; and Lenoble, Philippe, 3,660,020.

Gandon, Louis; Bozec, Christian; Lenoble, Philippe; Lemarinel, Robert; and Fer, Pierre, 3,661,564.

Bozek, John S., to Continental Can Company, Inc. Cover interlocking preventive device. 3,632,016, 1-4-72, Cl. 220-97.

Bozek, John S., to Continental Can Company, Inc. Trimming head for metal cans. 3,646,840, 3-7-72, Cl. 82-82.

Bozeman, Wright D.; and Blackwell, Clifford D., to Inland Steel Company. Apparatus for controlling coating thickness. 3,667,425, 6-6-72, Cl. 118-63.000.

Bozenhard, Walter Frank: See—
Patmore, James R.; Bozenhard, Walter Frank; and Spampinato, Gavino Anthony, 3,678,258.

Bozich, Robert A. Compressor clutch with time delay control. 3,678,700, 7-25-72, Cl. 62-323.000.

Bozik, John E.; and Swift, Harold E., to Gulf Research & Development Company. Preparation of tolaldehydes. 3,636,157, 1-18-72, Cl. 260-599.

Bozik, John E.; Swift, Harold E.; and Wu, Ching-Yong, to Ameripol, Inc. Coordination polymerization catalyst. 3,677,968, 7-18-72, Cl. 252-431.00n.

Bozik, John E.; Swift, Harold E.; and Wu, Ching-Yong, to Ameripol, Inc., mesne. Polymerizing unsaturated monomers with a catalyst of an iron complex, a dialkyl aluminum compound and a bidentate ligand. 3,678,022, 7-18-72, Cl. 260-88.700.

Bozik, John E.; Swift, Harold E.; and Wu, Ching-Yong, to Goodrich-Gulf Chemicals Inc. Polymerization process and catalyst system therefor. 3,703,483, 11-21-72, Cl. 260-2.00a.

Bozler, Carl O., to Ohio State University, The. Apparatus for growing films. 3,636,919, 1-25-72, Cl. 118-48.

Bozoian, Michael, to Ford Motor Company. Vehicle speed responsive warning actuating system. 3,639,896, 2-1-72, Cl. 340-62.

Bozoian, Michael, to Ford Motor Company. Wide-band noninductive frequency doubler. 3,648,062, 3-7-72, Cl. 307-220.

Bozoyan, Edward. Digital control devices with mechanical conversion. 3,686,970, 8-29-72, Cl. 74-479.000.

BP Chemicals (U.K.) Limited: See—
Bell, David, 3,647,359.

Capp, Clifford William; Harris, Brian Walton; and Hawkins, Edwin George Edward, 3,676,430.

Capp, Clifford William; and Denbigh, Keith Warwick, 3,676,431.

Evans, Edward Michael; and Jeffreys, Kerry David, 3,655,609.

Fox, David Brian; and Gintz, Francis Paul, 3,632,542.

Hawkins, Edwin George Edward, 3,654,268.

Jeffreys, Kerry David, 3,644,570.

Macoustra, James, 3,644,236.

Randall, George Colin William, 3,632,854.

Yeomans, Bertram, 3,702,834.

BP Chemicals Limited: See—
Barclay, John Lynn; Gasson Edward James; and Hadley, David James, 3,681,421.

Barnes, Edward; and Nance, Kenneth H., 3,663,187.

Bohemen, John, 3,702,830.

Grebbell, John; and Symes, Thomas James, 3,689,587.

Hall, Antony Harold Patrick; and Dancer, Stuart Neil, 3,705,152.

Harvey, Lawrence, 3,700,140.

Hill, Thomas, 3,647,709.

Hill, Thomas, 3,663,451.

Hodgson, Stamford, 3,643,444.

Martin, David Eric; and Palmer, Brian Michael, 3,668,270.

Sturt, Alan Charles, 3,663,655.

Sturt, Alan Charles, 3,663,657.

Weaver, David R.; Emery, Anthony G.; and Spearing, Michael Henry, 3,659,111.

Yeomans, Bertram, 3,703,549.

BPB Industries Limited: See—
Cafferata, Gerald Waterworth, 3,650,689.

Bra-Con Industries, Inc.: See—
Marvin, Neil T., 3,677,175.

Braak, Edmund C., to Hercules Incorporated. Protective surface covering having heat and moisture resistant properties for caseless ammunition. 3,703,868, 11-28-72, Cl. 102-103.000.

Braas, Alfred, to Armaturenwerk Niedersheld GmbH. Quick-acting valve with rocker-type operating button. 3,646,958, 3-7-72, Cl. 137-553.

Braaten, Norman J., to Linquist & Vennum, mesne. Finger-touch faceplate. 3,696,409, 10-3-72, Cl. 340-365.000.

Braatz, Frederick W. Campers D. U. O. 3,633,229, 1-11-72, Cl. 7-14.55.

Brabander, Herbert Joseph: See—
Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, 3,641,029.

Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, 3,646,047.

Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, 3,646,048.

Brabander, Herbert Joseph; and Wright, William Blythe, Jr., to American Cyanamid Company. N-morpholinoalkyl-thieno[3,2-b]pyrrole-5-carboxamides. 3,706,810, 12-19-72, Cl. 260-247.100.

Brabazon, John J. Knee support. 3,677,265, 7-18-72, Cl. 128-80.00c.

Bracco Industria Chimica: See—
Felder, Ernst; and Pitre, Davide, 3,644,409.

Bracco Industria Chimica, Societa per Azioni: See—
Felder, Ernst; and Pitre, Davide, 3,654,272.

Brace, Eldred C.; and Green, George E., to Banner Mining Company. Recovery of copper from copper ores. 3,661,740, 5-9-72, Cl. 204-96.

Brace, George A.; d/b/a Sellers and Brace: See—
Barron, Norman, 3,696,395.

Brace, Lloyd D., Jr.: See—
Sims, John C., Jr.; and Brace, Lloyd D., Jr., 3,704,337.

Brace, Robert J.; and Fienberg, Meyer. Alarm system and method of incorporating magnetic switch means magnetically controlled electrical switches. 3,636,547, 1-18-72, Cl. 340-280.

Brach, Paul J.; and Six, Hugh A., to Xerox Corporation. Process for preparing X-form metal-free phthalocyanine. 3,657,272, 4-18-72, Cl. 260-314.5.

Bracht, Armand. Temperature-dependent switching device. 3,633,142, 1-4-72, Cl. 337-334.

Brack, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Naphtholactam-(1,8) basic dyestuffs. 3,673,182, 6-27-72, Cl. 260-242.000.

Brack, Karl, to Hercules Incorporated. Sulfur dioxide addition product. 3,632,586, 1-4-72, Cl. 260-283.

Brack, Karl; Gorey, Edward F.; and Schwuttke, Guenther H., to International Business Machines Corporation. Monocrystalline semiconductor body having dielectrically isolated regions and method of forming. 3,666,548, 5-30-72, Cl. 117-212.000.

Brack, Karl, to Hercules Incorporated. Cross-linkable unsaturated polymer compositions. 3,671,475, 6-20-72, Cl. 260-22.

Brack, Karl, to Hercules Incorporated. Cross-linkable polymer compositions comprising ethylenically unsaturated polymers. 3,706,685, 12-19-72, Cl. 260-22.00r.

Brack, Karl, to Hercules Incorporated. Cross-linkable polymer compositions comprising ethylenically unsaturated polymer. 3,706,715, 12-19-72, Cl. 260-77.5ac.

Brack, Werner, to Communications Associates, Inc. Frequency synthesizer. 3,657,664, 4-18-72, Cl. 331-1.

Bracke, William: See—
Marvel, Carl S.; Bracke, William; and Dutt, Prabir K., 3,635,896.

Bracke, William J. I., to Cosden Oil & Chemical Company. Heterocyclizing of polymer. 3,686,141, 8-22-72, Cl. 260-47.0up.

Brackelmanns, Norbert William, to RCA Corporation. Method for making transistors including gain determining step. 3,666,573, 5-30-72, Cl. 148-175.000.

Bracken, Joseph W., Jr.; Davidson, Roger A.; and Thebert, Glenn W., to General Motors Corporation. Gas turbine fuel atomizing system. 3,688,497, 9-5-72, Cl. 60-39.74r.

Bracken, Leslie Thomas: See—
Dransfield, Desmond; Bass, Patrick; White, Roy Ernest; and Bracken, Leslie Thomas, 3,676,876.

Bracken, Thomas W., to Eastman Kodak Company. Bimodal film cutter adapted to handle different film widths. 3,699,834, 10-24-72, Cl. 83-446.000.

Brackenbrough, Dennis D.; Godfrey, Harold E., Jr.; and Mills, Richard G. Adjustable radiation shield. 3,649,835, 3-14-72, Cl. 250-108.

Brackenridge, David R.: See—
Dubeck, Michael; and Brackenridge, David R., 3,647,883.

Bracker AG: See—
Ramseier, Paul, 3,653,243.

Brackett, Lawrence W., Sr., to Wood Electric Corporation. Multipole circuit breaker. 3,646,487, 2-29-72, Cl. 335-8.

Brackett Stripping Machine Co., Inc.: See—
Blair, Boyd C., 3,664,220.

Blair, Boyd C., 3,668,037.

Brackmann, Warren A.; and Di Ianni, Daniel, to Rothmans of Pall Mall Canada Limited. Conveyor link. 3,659,697, 5-2-72, Cl. 198-136.000.

Bradane, Michel: See—
Le Strat, Guy Jean; and Bradane, Michel, 3,651,269.

Bradbury, Keith Douglas. Apparatus for pulling row crops. 3,679,002, 7-25-72, Cl. 171-56.000.

Bradbury, Keith Douglas. Apparatus for pulling row crop plants. 3,690,382, 9-12-72, Cl. 171-56.000.

Bradick, Britt O.; Lindsey, Hiram E., Jr.; and McKiearnan, Charles J., to Texas Iron Works, Inc. Apparatus for completing plural zone oil and gas wells. 3,640,341, 2-8-72, Cl. 166-115.

Braddock, Robert C., to International Telephone and Telegraph Corporation. Tristable circuit. 3,662,193, 5-9-72, Cl. 307-291.

Braddock, Walter B.: See—
Pitzer, Dorman C.; Braddock, Walter B.; Swann, Richard C. G.; and Pyne, Anthony E., 3,649,888.

Braddock, William A.: See—
Brown, Archer W.; Montgomery, James L.; Wienke, Charles W.; Roskowsinski, Alfons; and Braddock, William A., 3,658,189.

Pankers, Alva L., 3,648,291.

Bradel, Norman F.: See—
Carr, Hugh B.; and Bradel, Norman F., 3,653,647.

Bradel, Norman F., to Kinney, S. P., Engineers, Inc. Goggle valve with limit switch. 3,695,300, 10-3-72, Cl. 138-94.300.

Braden, Alvin H. Fish food feeding apparatus. 3,677,230, 7-18-72, Cl. 119-51.000.

Braden, Rudolf: See—
Dieterich, Dieter; and Braden, Rudolf, 3,646,040.

Dieterich, Dieter; and Braden, Rudolf, 3,689,496.

Findeisen, Kurt; Braden, Rudolf; and Holtschmidt, Hans, 3,682,916.

Rinkler, Heinrich; Braden, Rudolf; and Nischk, Gunther, 3,673,242.

Braden Steel Corporation: See—
Lewis, James C.; Lewis, Scott C.; and Hockett, Robert M., 3,702,046.

Braden, William D.; Marshall, Richard P.; Greenhorn, Richard J.; and Buser, Arnold S., to Goodyear Tire & Rubber Company, The. Apparatus for processing cured tires. 3,656,343, 4-18-72, Cl. 73-146.

Braden, William D.; Marshall, Richard P.; Greenhorn, Richard J.; and Buser, Arnold S., to Goodyear Tire & Rubber Company, The. Apparatus for processing cured tires. 3,698,233, 10-17-72, Cl. 73-1.00b.

Bradford, Glenn H.; and Elewski, John S. Tool loader and unloader. 3,684,101, 8-15-72, Cl. 211-1.500.

Bradford, James C.; Miller, Stephen H.; and Robertson, Jeffrey C., to Eastman Kodak Company. Flex-snobber. 3,700,188, 10-24-72, Cl. 242-194.000.

Bradford, John O.: See—
Fackler, Kenneth C.; Bradford, John O.; and Meiners, Elmo R., 3,658,362.

Meiners, Elmo R.; and Bradford, John O., 3,650,541.

Bradford, John Ramsey; and Goodwin, William Gerry, to Magnacheck Corporation. Roller imprinter for pocket credit card. 3,656,429, 4-18-72, Cl. 101-269.

Bradford, John Ramsey, to Magnacheck Corporation. Micro imprinting photo-etched credit card. 3,703,864, 11-28-72, Cl. 101-369.000.

Bradford, Richard H., Jr.: See—
Norris, Raymond H.; and Bradford, Richard H., Jr., 3,651,319.

Bradford, William Clarke: See—
Ogden, Harry; Laidlaw, Neil Rutherford; and Bradford, William Clarke, 3,639,766.

Bradie, Peter R.: See—
Hodge, Thomas, Jr.; and Bradie, Peter R., 3,699,564.

Bradlee, Charles R., to Textron, Inc. Multiple station forming press. 3,683,665, 8-15-72, Cl. 72-405.000.

Bradley, Chester D., to Emery, A. H., Company, The. Simplified hydraulic load cell construction. 3,633,695, 1-11-72, Cl. 177-208.

Bradley, Chester D.; and Tate, Malcolm C., to Emery, A. H., Company, The. Load cell with high cross loading capacity. 3,646,854, 3-7-72, Cl. 92-98.

Bradley, Claude G., to Geigy Chemical Corporation. Electronic instrumentation system for catalytic cyanogen chloride trimerization. 3,654,447, 4-4-72, Cl. 235-151.12.

Bradley, Curtis E. Corrosion resistant battery terminal connector. 3,704,440, 11-28-72, Cl. 339-114.000.

Bradley, Donald K.: See—
Labarge, Robert G.; and Bradley, Donald K., 3,660,295.

Bradley, Edgar R., to Harris-Intertype Corporation. Fluidic control for material cutter. 3,648,552, 3-14-72, Cl. 83-68.

Bradley, Edmund G.; and Whittingham, Reginald P. Internal line-up clamp for pipe lines. 3,699,635, 10-24-72, Cl. 29-252.000.

Bradley, George M. Electrical fish scaler. 3,670,364, 6-20-72, Cl. 17-66.000.

Bradley, John J.: See—
Small, Rudolph E.; Bradley, John J.; Sanders, Charles J.; and Slawny, Howard J., 3,673,052.

Bradley, John N.; and Pentescu, Peter N., to Budd Company, The. Vehicle rim and side ring construction. 3,635,274, 1-18-72, Cl. 152-410.

Bradley, John R., to British Oxygen Company, Limited, The. Line follower equipped with mask to make edge of silhouette appear as a line. 3,657,546, 4-18-72, Cl. 250-202.

Bradley, Lawrence D.: See—
Horne, Victor A., Jr.; and Bradley, Lawrence D., 3,704,671.

Bradley, Raymond H., to United States of America, National Aeronautics and Space Administration. Method of delivering a

vehicle to earth orbit and returning the reusable portion thereof to earth. 3,700,193, 10-24-72, Cl. 244-155.000.

Bradley, Richard S., to Art's-Way Manufacturing Company Incorporated. Strain gage weighing device. 3,650,340, 3-21-72, Cl. 177-136.

Bradley, Richard S., to Art's-Way Manufacturing Company Incorporated. Vehicle coupling weighing device. 3,669,756, 6-13-72, Cl. 177-136.000.

Bradley, Robert O.: See—
Steitz, William R.; Bradley, Robert O.; and Waterworth, Thomas H., 3,634,588.

Bradley, Ronnie A.: See—
Pechin, William H.; Bradley, Ronnie A.; and Sease, John D., 3,689,428.

Bradley, Ruth D.: See—
Keene, Carl E.; and Bradley, Ruth D., 3,700,510.

Bradley, Thomas E.; and Spadt, Walter, Jr., to Bethlehem Steel Corporation. Contact printing apparatus. 3,682,551, 8-8-72, Cl. 355-120.000.

Bradley, Thomas W., to General Motors Corporation. Insulated door with reversible cover. 3,662,492, 5-16-72, Cl. 49-501.

Bradley, Thompson G.; and Swinkels, Dominicus A. J., to General Motors Corporation. Electrolysis cell and process using a wick electrode. 3,674,567, 7-4-72, Cl. 136-164.000.

Bradley Washfountain Co.: See—
Smart, Edwin Allen, 3,646,966.

Bradley, William David; and Summerlin, Frederick Arthur, to Aerpat A.G., mesne. Blind fastener. 3,657,956, 4-25-72, Cl. 85-72.

Bradley, William E.: See—
Timm, Gerald W.; and Bradley, William E., 3,646,940.

Bradley, William E., to Puredesal, Inc. Liquid treatment system. 3,637,081, 1-25-72, Cl. 210-110.

Bradley, William E., to Puredesal, Inc., mesne. Liquid purification system. 3,654,148, 4-4-72, Cl. 210-23.

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Bradley, William J. Tilttable headboard for beds. 3,683,430, 8-15-72, Cl. 5-279.000.

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Bradshaw, Clayton H., to Abex Corporation. Encapsulated rivet and anvil arrangement. 3,685,623, 8-22-72, Cl. 192-107.00r.

Bradshaw, Evelyn: See—
Rabatin, Jacob G.; and Bradshaw, Evelyn, 3,666,676.

Bradshaw, Jerald S., to Chevron Research Company. Tricyclocene tetracarboxylic acid diimide polymers. 3,639,356, 2-1-72, Cl. 260-78.

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Plunkett, Robert L.; and Bradshaw, John A., 3,639,194.

Bradshaw, Melvin H. Bow cord retracting and releasing device. 3,661,136, 5-9-72, Cl. 124-35.

Bradshaw, Michael S. Carrier for hook type coat hanger. 3,670,937, 6-20-72, Cl. 224-45.00t.

Bradshaw, Norman Francis, to International Harvester Company. Control devices. 3,691,867, 9-19-72, Cl. 74-491.000.

Bradshaw, Robert S.; Golden, Donald M.; and Shapiro, Marvin, to Burroughs Corporation. Method and apparatus for detecting and separating out overweight letters. 3,648,839, 3-14-72, Cl. 209-121.

Bradshaw, Thomas I., to Minnesota Mining and Manufacturing Company. Insect trap. 3,685,199, 8-22-72, Cl. 43-114.000.

Bradshaw, Thurman O.; and Rogers, William W. Fish locator with audio monitor. 3,706,068, 12-12-72, Cl. 340-3.00r.

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Bradt, Gordon E., to Bell & Howell Company. Power transmission mechanism. 3,698,254, 10-17-72, Cl. 74-143.000.

- Bradus, Robert: *See*—
Rogers, Frederick; Bradus, Robert; and Winar, Joseph J., 3,636,900.
- Brady, Charles E. Package for sterilized products. 3,685,720, 8-22-72, Cl. 229-62.000.
- Brady, Dale J., to Anchor Hocking Corporation. Pneumatic article spreader. 3,685,632, 8-22-72, Cl. 198-31.000.
- Brady, Dale J.; and Gerken, George W., to Anchor Hocking Corporation. On-line simulated impact tester for glass containers. 3,702,563, 11-14-72, Cl. 73-12.000.
- Brady, Donnie G.: *See*—
Cardenas, Carlos G.; and Brady, Donnie G., 3,697,607.
Drake, William O.; and Brady, Donnie G., 3,660,533.
Scruggs, Jack G.; and Brady, Donnie G., 3,676,484.
- Brady, Donnie G., to Phillips Petroleum Company. Quarternary phosphonium salt catalyzed synthesis of urethanes and polyurethanes. 3,674,750, 7-4-72, Cl. 260-77.50r.
- Brady, Donnie G., to Phillips Petroleum Company. Synthesis of allyl esters with palladium and platinum halide catalysts. 3,699,155, 10-17-72, Cl. 260-491.000.
- Brady, Donnie G.; Zuech, Ernest A.; and Gray, Roy A., to Phillips Petroleum Company. Flame-retarded olefin polymers and additive systems therefor. 3,700,625, 10-24-72, Cl. 260-45.75r.
- Brady, Donnie G., to Phillips Petroleum Company. Preparation of allylic esters with palladium catalysts. 3,700,724, 10-24-72, Cl. 260-491.000.
- Brady, Douglas MacPherson, to Bell Telephone Laboratories, Incorporated. Adaptive signal processor for diversity radio receivers. 3,633,107, 1-4-72, Cl. 325-305.
- Brady, Harold P., Jr.: *See*—
Richardson, Dean E.; Peterson, Adolph A., III; and Brady, Harold P., Jr., 3,701,742.
- Brady, Hugh B.; Kochis, John L.; and Tischler, Oscar, to Pyrofilm Corporation. Hermetically sealed metal-film resistor. 3,688,238, 8-29-72, Cl. 338-237.000.
- Brady, Jack C.; and Fewel, Kenneth J., to United States of America, Navy, mesne. Acceleration sensitive shock absorber valve. 3,696,894, 10-10-72, Cl. 188-275.000.
- Brady, Joseph P. Golf training device. 3,680,869, 8-1-72, Cl. 273-183.00b.
- Brady, Lynn J.: *See*—
Rozema, Arthur L.; Brady, Lynn J.; and Barden, Wayne A., 3,694,786.
- Brady, Lynn J., to CTS Corporation. Electrical resistance elements, their composition and method of manufacture. 3,655,440, 4-11-72, Cl. 117-227.
- Brady, W. H., Co.: *See*—
Crary, Edward N., 3,661,576.
Hueser, Elliott G.; and Muttera, William H., Jr., 3,698,296.
- Bradzda, Ladislav: *See*—
Prochazka, Miloslav; Cesenek, Bedrich; Mach, Vladimir; Kaulich, Karel; Zdenka, Cervený; and Bradzda, Ladislav, 3,648,450.
- Braemer, Frank C.: *See*—
Brown, Bernard C.; and Braemer, Frank C., 3,655,361.
- Braemer, Frank C., to Chemical Construction Corporation. Adjustable annular venturi scrubber. 3,638,925, 2-1-72, Cl. 261-62.
- Braendstroem, Arne Eloff; Carlsson, Stig Ake Ingemar; and Gagneux, Andre, to Geigy Chemical Corporation. 2-Aroyl-3-aminoalkoxyindoles. 3,703,524, 11-21-72, Cl. 260-293.610.
- Braga, Felix J., to Bell Telephone Laboratories, Incorporated. Active all-pass network. 3,633,122, 1-4-72, Cl. 330-69.
- Bragas, Peter, to Blaupunkt-Werke GmbH. Video transducer head alignment apparatus. 3,670,113, 6-13-72, Cl. 179-100.20b.
- Brage, James John. Alpha-numeric display tubes. 3,668,689, 6-6-72, Cl. 340-344.
- Bragg, Cecil: *See*—
Derc, Roman; Eitel, Ronald John Frank; and Bragg, Cecil, 3,669,446.
- Bragg, Charles Gail. Cutting device. 3,643,591, 2-22-72, Cl. 100-95.
- Bragg, Herbert E., to De Luxe General Incorporated. Reflective condensing system for concentrating illumination at an aperture. 3,670,157, 6-13-72, Cl. 240-41.350.
- Braggard, Adolphe Andre, to Centre National de Recherches Metallurgiques. Coating metallic materials. 3,655,428, 4-11-72, Cl. 117-106.
- Braginetz, Paul A., to Morris, Philip, Incorporated. Combined blade holder and dispenser. 3,643,794, 2-22-72, Cl. 206-16.
- Braginetz, Paul A., to Morris, Philip, Incorporated. Adjustable folding razor. 3,646,672, 3-7-72, Cl. 30-32.
- Braginetz, Paul A., to Morris, Philip, Incorporated. Disposable preassembled plastic razor. 3,675,323, 7-11-72, Cl. 30-32.000.
- Brahan, John W.: *See*—
Hlady, Alvin M.; Brown, William C.; and Brahan, John W., 3,653,031.
- Brahigbn, Ltd.: *See*—
Brown, Robert L., 3,693,722.
- Braid, John E.: *See*—
Cubbon, Robert C. P.; Braid, John E.; and Hewlett, Colin, 3,639,425.
- Braid, Milton, to Mobil Oil Corporation. Lubricating oils or fuels containing adducts of phosphorodithioate esters. 3,644,206, 2-22-72, Cl. 252-46.7.
- Braid, Milton, to Mobil Oil Corporation. Esters of phosphorodithioates. 3,654,154, 4-4-72, Cl. 252-46.6.
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- Braid, Milton, to Mobil Oil Corporation. Compositions stabilized with an aryloxy (alkyloxy) alkane. 3,683,032, 8-8-72, Cl. 260-613.00r.
- Braikевич, Michael; and Goldwag, Emil, to English Electric Company Limited, The. Water turbines. 3,644,053, 2-22-72, Cl. 415-173.
- Brailard, Pierre L.; Moreuil, Jean-Louis; and Steru, Marius, to Compagnie Generale d'Electronique Industrielle Lepaute, CGEI-Lepaute. Man-to-machine peripheral communication device. 3,640,002, 2-8-72, Cl. 35-8.
- Braislford, Harrison D. Vibration transducer for burglar alarms and the like. 3,665,259, 5-23-72, Cl. 317-144.
- Braim, David H., to Northern Electric Company Limited. Colour coding of pulp insulated conductors. 3,663,359, 5-16-72, Cl. 162-105.000.
- Braiman, Jerry; and Greskamp, John B., to Mallory, P. R., & Co., Inc. Encapsulating of electronic components by ultrasonic wave energy. 3,680,203, 8-1-72, Cl. 29-570.000.
- Brain, Thomas John Stirrat, to National Research Development Corporation. Measuring the density, velocity and mass flow of gases. 3,688,106, 8-29-72, Cl. 250-43.5fc.
- Brainard, Edward C., II, to General Time Corporation. Underwater communication system. 3,668,617, 6-6-72, Cl. 340-4.00e.
- Brainard, Norman R.; and Holl, William H., to General Motors Corporation. Electronic cruise control system. 3,647,017, 3-7-72, Cl. 180-150.
- Brainard, Wallace E.; and Sipek, Charles B., to Kearney & Trecker Corporation. Single interferometer multiple axis laser measuring system. 3,661,463, 5-9-72, Cl. 356-106.
- Brainerd, Gideon R. Analog-to-digital converter. 3,696,404, 10-3-72, Cl. 340-347.0ad.
- Brainerd, Wendell C., to General Motors Corporation. Air cushion actuation and monitoring circuit. 3,668,627, 6-6-72, Cl. 340-52.00h.
- Braithwaite, David G., to Nalco Chemical Company. Catalyst coating method. 3,697,446, 10-10-72, Cl. 252-455.00z.
- Brak, Stephen B.; Steves, Clarence; and Mayfield, Ross M.; deceased (by Mayfield, Georgia P.; sole heir), to United States of America, Atomic Energy Commission. Drawbench. 3,654,794, 4-11-72, Cl. 72-285.
- Brake, Cecil Clifford, to Scovill Manufacturing Company. Air line lubricator. 3,696,889, 10-10-72, Cl. 184-55.00a.
- Brake, Loren D., to Du Pont de Nemours, E. I., and Company. Catalytic hydrogenation of aromatic nitrogen containing compounds over alkali moderated ruthenium. 3,636,108, 1-18-72, Cl. 260-563.
- Brake, Loren D.; and Stiles, Alvin B., to Du Pont de Nemours, E. I., and Company. Catalytic hydrogenation of nitrogen containing compounds over supported ruthenium catalysts. 3,644,522, 2-22-72, Cl. 260-563.
- Brake, Loren D., to Du Pont de Nemours, E. I., and Company. Isomer enrichment of 1,4-cyclohexanediamine. 3,657,345, 4-18-72, Cl. 260-563.
- Brake, Loren D., to Du Pont de Nemours, E. I., and Company. Isomer enrichment of bicyclohexyl-4,4-diamine. 3,679,746, 7-25-72, Cl. 260-563.00r.
- Brake, Loren D., to Du Pont de Nemours, E. I., and Company. Alkali moderation of supported ruthenium catalysts. 3,697,449, 10-10-72, Cl. 252-474.000.
- Bram, Georges Eugene, to Centre de Recherches de Pont-A-Mousson. Connecting device for pipes and applications thereof. 3,653,691, 4-4-72, Cl. 285-236.
- Bramble, Ronald L., to Mayer, Frank, & Associates, Inc. Display device. 3,699,699, 10-24-72, Cl. 40-125.00h.
- Brameda Resources Limited: *See*—
Tisdell, Lawrence C.; and Scott, Harry B., 3,679,371.
- Bramley, Anthony. Tennis net and method of making. 3,689,067, 9-5-72, Cl. 273-29.00b.
- Bramley, Hugh Christopher: *See*—
Barnard, Mark Carey Sedgwick; Bramley, Hugh Christopher; and Collet, Peter Jacobus, 3,650,317.
- Brammall, Inc.: *See*—
Van Gompel, James J., 3,635,440.
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- Bramson, Arnold; and Day, Wilbur H., to Singer-General Precision, Inc. Simulator computer. 3,645,014, 2-29-72, Cl. 35-12.
- Branon Instruments, Incorporated: *See*—
Horton, Robert C., 3,679,526.
- Bran & Lubbe: *See*—

- Lieckfeld, Werner, 3,664,072.
- Branaham, Charles L.: *See*—
Higginbotham, William W.; and Branaham, Charles L., 3,649,043.
- Brancaleone, Salvatore T., to International Telephone and Telegraph Corporation. Electrical connector shield. 3,678,445, 7-18-72, Cl. 339-143.00r.
- Branch, Geoffrey Hindle; Hall, James Edward; Bickerstaff, Kenneth; and Russell-Rayner, Albert Patrick, to Pilkington Brothers Limited. Conveying of glass sheets. 3,680,677, 8-1-72, Cl. 198-20.000.
- Branch, William C.: *See*—
Booth, Jack J.; and Branch, William C., 3,655,097.
- Branco, Richard P.: *See*—
Bader, Clifford J.; and Branco, Richard P., 3,675,113.
- Branco, Richard P.; Sprude, Edgar O.; and Diener, Albert W., to Burroughs Corporation. Electric device and coaxial connection. 3,651,447, 3-21-72, Cl. 339-102.
- Brand, Abraham: *See*—
Mowrey, Albert C.; Huiskes, John H.; and Brand, Abraham, 3,706,085.
- Brand, Boris Peter, to Ilford Limited. Color developing with a 4-sulfo naphthamide base. 3,701,661, 10-31-72, Cl. 96-55.000.
- Brand, Derek: *See*—
Imatt, Alex; and Brand, Derek, 3,701,477.
- Brand Insulations, Inc.: *See*—
Jerit, John, 3,667,187.
- Brand, John R.; and Smith, Ernest A., to Warwick Electronics Inc. Keyer circuit for an electronic musical instrument wherein a single switch may actuate a single note or a chord. 3,665,088, 5-23-72, Cl. 84-1.010.
- Brand, John Seemann; and Honeiser, Vladimir Paul, to American Can Company. Manufacture of printed circuits. 3,652,332, 3-28-72, Cl. 117-212.
- Brand, Karl: *See*—
Kessler, Franz; and Brand, Karl, 3,659,911.
- Brand S Corporation: *See*—
Russell, Phillips G.; Guggenbickler, Leon E.; and Crawford, John H., 3,675,791.
- Brand, Warren L., to Motorola, Inc. Method of vapor depositing a tungsten-tungsten oxide coating. 3,669,724, 6-13-72, Cl. 117-106.00r.
- Brand, Warren L. Vapor-plated cermet resistor. 3,669,737, 6-13-72, Cl. 117-227.000.
- Brand, Werner: *See*—
Tonne, Franz; Brand, Werner; and Wolowitz, Benno, 3,675,593.
- Brand, Wilhelmus K.: *See*—
Van Nassau, Petrus J. M.; Brand, Wilhelmus K.; and Kaasbrood, Petrus J. C., 3,697,521.
- Brand, William J., to Varian Associates. Cryostat having heat exchanging means in a vent tube. 3,662,566, 5-16-72, Cl. 62-514.
- Brandberg, Lawrence C.: *See*—
Marmor, Ralph A.; and Brandberg, Lawrence C., 3,705,012.
- Brandeis, Richard, to Waltronic Company. Welding control system. 3,694,615, 9-26-72, Cl. 219-114.000.
- Brandel, Albert John, to Chevron Research Company. Specific gravity analyzer for control of an alkylation process. 3,653,835, 4-4-72, Cl. 23-230.
- Brandell, Wynand W.; and Klass, Lawrence S., to Avco Corporation. Low penetration ball forming process. 3,705,511, 12-12-72, Cl. 72-53.000.
- Brandell, John R., to Brandell Products Corporation. Golf putting practice device. 3,697,079, 10-10-72, Cl. 273-179.00a.
- Brandell Products Corporation: *See*—
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- Brandenburg, Karl A., to Aro Corporation, The. Pneumatic tape readout apparatus. 3,632,994, 1-4-72, Cl. 235-61.11.
- Brandenberger, Fred L. Combination portable fire escape and wardrobe support. 3,696,888, 10-10-72, Cl. 182-35.000.
- Brandenburg, Helmut: *See*—
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- Brandenburg, Helmut; and Beck, Hansludwig, to Gebr. Eickhoff, Maschinenfabrik und Eisengiesserei m.B.H. Machine for making double faced corrugated paperboard comprising a plurality of rows of axially spaced staggered pressure rolls. 3,676,268, 7-11-72, Cl. 56-548.000.
- Brandenburg Limited: *See*—
Hyatt, Edward Philip, 3,636,433.
- Brander, Richard, to Beltone Electronics Corporation. Gradual on-off keying circuit for an oscillator. 3,651,428, 3-21-72, Cl. 331-173.
- Brander, Richard, to Beltone Electronics Corporation. Signal gating circuit. 3,657,567, 4-18-72, Cl. 307-259.
- Brandes, Raymond G.; and Pleass, Charles M., to Bell Telephone Laboratories, Incorporated. Resistance heater and method for preparation thereof. 3,635,824, 1-18-72, Cl. 252-512.
- Brandes, Raymond G.; and Pleass, Charles M., to Bell Telephone Laboratories, Incorporated. Electrical resistance heater. 3,700,857, 10-24-72, Cl. 219-543.000.
- Brandestini, Antonio; and Thorpe, Walter, to Simon-Carves Limited. Method of winding wire about prestressed containers. 3,657,798, 4-25-72, Cl. 29-452.
- Brandi, Henry W. Hermetically sealed resistor. 3,643,200, 2-15-72, Cl. 338-329.
- Brandi, Henry W., to Wagner Electric Corporation, mesne. Container and blank therefor. 3,669,259, 6-13-72, Cl. 206-65.00f.
- Brandin, Tore; and Johansson, Sven Yngve David, to Stal Refrigeration Aktiebolag. Apparatus for cooling a liquid. 3,643,754, 2-22-72, Cl. 62-196.
- Brandl, Willi. Central heating and service water system. 3,674,204, 7-4-72, Cl. 237-8.000.
- Brandl, Willi. Fuel-fired boiler for production of domestic hot water and for heating. 3,704,691, 12-5-72, Cl. 122-33.000.
- Brandle, Karl: *See*—
Zirngibl, Hans; Jaschiski, Klemens; Brandle, Karl; Beumer, Peter; and Weidmann, Walter, 3,681,895.
- Brandli, Paul: *See*—
Zuhlke, Gerhard; Brandli, Paul; and Spalti, Max, 3,678,550.
- Brandon, Clarence W., to Orpha Brandon. Fracturing and scavenging formations with fluids containing liquefiable gases and acidizing agents. 3,640,344, 2-8-72, Cl. 166-307.
- Brandon, Clarence W., 25% to Brandon, Orpha B. Method of pumping fluids with an energy wave generator. 3,656,868, 4-18-72, Cl. 417-53.
- Brandon, Kenneth F., to Eastman Kodak Company. Apparatus for setting up a rapidly moving web for removal of a side portion therefrom. 3,691,888, 9-19-72, Cl. 83-302.000.
- Brandon, Marshall K.: *See*—
Allen, Willard B.; Persons, Charles E.; and Brandon, Marshall K., 3,696,414.
- Brandon, Orpha B.: *See*—
Brandon, Clarence W., 3,656,868.
- Brandon, Richard L., to Crown Zellerbach Corporation. Reproduction utilizing a bichargeable photoconductive layer containing zinc oxide and titanium dioxide. 3,653,895, 4-4-72, Cl. 96-1.8.
- Brandon, William D.; and Drais, Jack A., to Caterpillar Tractor Company. Helically wound laminated bearings and method of manufacture. 3,690,639, 9-12-72, Cl. 267-57.100.
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- Brandstaetter, Omri, to Siemens Aktiengesellschaft. Apparatus for the treatment and torsion-free transportation of thin wire. 3,654,114, 4-4-72, Cl. 204-206.
- Brandstrom, Arne Eloff: *See*—
Gagneux, Andre; Brandstrom, Arne Eloff; and Carlsson, Stig Ake Ingemar, 3,699,124.
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- Brandstrom, Arne Eloff; and Carlsson, Stig Ake Ingemar, to Aktiebolaget Hassle. Certain benzofuran derivatives useful for relief of pain, inflammation, pyresis and tussive irritation. 3,665,074, 5-23-72, Cl. 424-248.
- Brandstrom, Arne Eloff; Carlsson, Per Arvid Emil; Carlsson, Stig Ake Ingemar; Corrodi, Hans Rudolf; Ek, Lars; Lamm, Bo Robert; and Ablad, Bengt Arne, to Aktiebolaget Hassle. 1-(Para-alkoxyalkoxyphenyl)-2-hydroxy-3-alkylaminopropanes and the salts thereof. 3,674,840, 7-4-72, Cl. 260-501.170.
- Brandt, Bengt-Ake Rudolf: *See*—
Dahlgren, Jens Karl Adolf; and Brandt, Bengt-Ake Rudolf, 3,653,785.
- Brandt, Charles H.: *See*—
Bolt, Gregory L.; Brandt, Charles H.; McLain, Aubrey R.; and Patel, Jayantilal M., 3,640,726.
- McSwiggan, Joseph R.; and Brandt, Charles H., 3,660,106.
- Brandt, David S., to Bendix Corporation, The. Separable electrical connector. 3,663,926, 5-16-72, Cl. 339-89.00r.
- Brandt, Fritz; and Ernst, Wolfram, to Siemens Aktiengesellschaft. Program controlled data processing installation for switching a telephone exchange. 3,665,510, 5-23-72, Cl. 340-172.5.
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- Brandt, Hans-Walther: *See*—
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- Brandt, Harry; and Traedway, Barney R. Method for making a prepacked sand control line for use in oil wells. 3,683,056, 8-8-72, Cl. 264r112.000.
- Brandt, Heinrich. Workpiece-sensing milling apparatus. 3,642,040, 2-15-72, Cl. 144-139.
- Brandt, Ivan L.; and Penrod, Orville R., to Allen-Bradley Company. Electrical resistance composition. 3,639,274, 2-1-72, Cl. 252-514.
- Brandt, Jack P., to Uniroyal, Inc. Dry cleanable vinyl type artificial leather. 3,673,059, 6-27-72, Cl. 161-88.000.
- Brandt, Marcus K., to Baker, J. T., Chemical Company. Chromatographic material. 3,667,607, 6-6-72, Cl. 210-198.000.
- Brandt, Marcus K., to Baker, J. T., Chemical Company. Chromatography apparatus and method. 3,667,917, 6-6-72, Cl. 23-230.00r.
- Brandt, Oscar E.; and Harris, Joseph G., to Lockheed Aircraft Corporation. Explosive system. 3,698,281, 10-17-72, Cl. 89-1.00b.
- Brandt, Siegfried: See—
Schmitt, Karl; Gude, Fritz; and Brandt, Siegfried, 3,673,273.
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- Brandt, Theodore C.; and Schulze, James L., Sr., to General Electric Company. Pilot and main fuel gas supply means for pressurized gas-fired space heater. 3,695,811, 10-3-72, Cl. 431-43.000.
- Brandt, Vinton R. Exercising chair. 3,641,995, 2-15-72, Cl. 128-25.
- Brandt, Wilbur. Fuel reserve device and system. 3,699,995, 10-24-72, Cl. 137-256.000.
- Brandt, Willem Matthijs. Stern shaft seal. 3,632,120, 1-4-72, Cl. 277-83.
- Brandt, William L., to Olin Corporation. Apparatus for storing hollow ice bodies. 3,638,451, 2-1-72, Cl. 62-344.
- Brandts, Theodor Gerardus; Lichtenberger, Joseph Alois; and Bentvelzen, Joseph Maria, to Consolidated Paper (Bahamas) Limited. Reinforced laminate product. 3,639,199, 2-1-72, Cl. 161-57.
- Brane, Ralph M.: See—
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- Brane Engineering, Inc.: See—
Moor, Herman L., 3,675,569.
- Branick, Charles Earl. Pneumatic tire chuck. 3,683,981, 8-15-72, Cl. 144-288.000.
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- Brannon, Edward O., to Rex Chainbelt Inc. Power assist servo control for a valve. 3,653,409, 4-4-72, Cl. 137-625.63.
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- Branovich, Louis E.; Fitzpatrick, William B. P.; and Long, Martin L., Jr., to United States of America, Army. Method of depositing isotropic boron nitride. 3,692,566, 9-19-72, Cl. 117-106.00r.
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Obeda, Edward G., 3,649,420.
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- Brant, Willard L. Guide means for skis. 3,645,347, 2-29-72, Cl. 180-5.
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- Brantley, Eillard H. Conveyor for football tackling dummies. 3,637,210, 1-25-72, Cl. 273-55.
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- Brantly, Newby O. Brassiere. 3,665,929, 5-30-72, Cl. 128-494.000.
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- Branton, Donald L.; and Mowery, James R., to Sta-Rite Industries, Inc. Liquid dispensing system. 3,667,499, 6-6-72, Cl. 137-318.000.
- Branton, Eric Sidney, to Activated Sludge Limited. Pipe supporting means. 3,700,197, 10-24-72, Cl. 248-71.000.
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- Brantz, Malcolm H. Kinetic display. 3,694,645, 9-26-72, Cl. 240-10.100.
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- Brasco, Friedrich: See—
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- Brasen, Wallace R., to Du Pont de Nemours, E. I., and Company. Microporous synthetic sheet material having a finish of a polyester polyurethane and cellulose acetate butyrate. 3,632,417, 1-4-72, Cl. 117-135.5.
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Peltola, Waino; and Braski, Ervin W., 3,683,979.
- Brasmer, Timothy H.: See—
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- Brass, Ronald W., to Iowa State University Research Foundation. Corn sheller. 3,662,762, 5-16-72, Cl. 130-6.
- Brassard, Theodore, to Texas Instruments, Incorporated. Circuit breaker having means for increasing current carrying capacity. 3,697,915, 10-10-72, Cl. 337-74.000.
- Brassington, Harry; and Aston, Jack Ralph, to Gillott, Joseph, & Sons Limited. Castors. 3,670,361, 6-20-72, Cl. 16-18.000.
- Brassner, Joseph L.: See—
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- Brastow, Edgar R.; and Lee, Tai Y., to Transco Products, Inc. Switching means. 3,689,854, 9-5-72, Cl. 335-5.000.
- Brasty, Joseph. Theft-proof automobile ignition system. 3,675,035, 7-4-72, Cl. 307-10.0at.
- Braswell, James W. Flushing apparatus. 3,705,428, 12-12-72, Cl. 4-58.000.
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- Bratek, Richard J., to International Business Machines Corporation. Frangible projection removal. 3,656,671, 4-18-72, Cl. 225-1.
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- Bratt, Richard L., to Norton Company. Surface conforming wear resistant doctor blade for rolls. 3,703,019, 11-21-72, Cl. 15-256.510.
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- Bratzler, Karl; Herbert, Wilhelm; Hoeine, Reinhard; and Storp, Klaus, to Metallgesellschaft Aktiengesellschaft. Process of purifying sulfur-containing exhaust gases and of recovering sulfur. 3,637,352, 1-25-72, Cl. 23-225.
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- Brau, Maurice J., to Texas Instruments, Incorporated. Method of producing homogeneous ingots of a metallic alloy. 3,656,944, 4-18-72, Cl. 75-135.
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Fischer, Richard, 3,673,683.
Greubel, Jurgin, 3,658,365.
Hofmann, Erich; Krull, Ernst; Johannsen, Werner Hans; Oberheim, Robert; and Scheibel, Josef, 3,669,534.
Messinger, Werner, 3,696,508.
Moller, Heinrich, 3,649,130.
Moller, Heinrich, 3,702,918.
Muller, Karl, 3,673,342.
Napierki, Peinhard; and Cobarg, Claus Christian, 3,692,999.
Pietzonka, Helmut; and Schindler, Hans, 3,704,085.
Rams, Dieter; and Cobarg, Claus Christian, 3,645,087.
Schafer, Walter, 3,642,422.
Scheibel, Josef, 3,652,155.
Scheibel, Josef, 3,652,994.
Scheibel, Josef, 3,707,327.
Voigt, Gottfried, 3,648,900.
Voigt, Gottfried, 3,680,931.
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- Braun, Arthur Rechtman, to Bell Telephone Laboratories, Incorporated. Crystal filter. 3,656,180, 4-11-72, Cl. 333-71.
- Braun, David L., to Minnesota Mining and Manufacturing Company. Solids dispenser having magnetic valve in throat. 3,661,302, 5-9-72, Cl. 222-226.
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- Braun, Edward H. Process and apparatus for marking and editing of elongated record carriers. 3,644,683, 2-22-72, Cl. 179-100.2.
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- Braun, Harvey A.; and Roberts, Richard J., to Filter Dynamics International, Inc. Filter element valve means. 3,633,750, 1-11-72, Cl. 210-130.
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- Braun, Hermann E., to Skil Corporation. Switch of the reversing type. 3,637,967, 1-25-72, Cl. 200-155.
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- Braun, Vincent C.: See—
Winyard, Rodney W.; Fortsch, Francis J.; and Braun, Vincent C., 3,648,424.
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Bauer, Rudolf; Jacob, Herbert; and Braun, Werner, 3,672,495.
Hoelzinger, Walther J.; Wenninger, Johann; Mayer, Walter; Zoegernitz, Karl; Schroetter, Hermann; and Braun, Werner, 3,669,064.
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Wettburg, Jochen, 3,651,532.
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- Braun, Wolfgang, to Siemens Aktiengesellschaft. Device for controlling the reactivity of nuclear reactors. 3,652,394, 3-28-72, Cl. 176-86.
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- Braunhut, Harold N. Insect trap. 3,686,788, 8-29-72, Cl. 43-110.000.
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Ort, Wolfgang; and Brauning, Gerhard, 3,646,603.
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Schneeberger, Victor; and Braunschweig, Robert G., 3,687,143.
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Sommer, Harald, 3,655,124.
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- Braunstein, David M., to Celanese Corporation. Diisocyanate coupling of oxymethylene polymer and polybutylene terephthalate. 3,697,624, 10-10-72, Cl. 260-860.000.
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- Braus, Harry; and Woltermann, Jay R., to National Distillers and Chemical Corporation. 3,5-Di-t-butyl-4-hydroxy benzyl phenyl sulfides. 3,637,863, 1-25-72, Cl. 260-609.
- Brauser, Klaus J.; Kritikos, Athanasios; Kroy, Walter; and Mehnert, Walter E., to Messerschmitt-Bolkow-Blohm GmbH. Magneto-optic storage element. 3,701,131, 10-24-72, Cl. 340-174.0yc.
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Fisher, William J., 3,672,015.
- Brawley, Harry E., Jr., to Data Electronics Corporation. Ring core keyboard entry device. 3,668,696, 6-6-72, Cl. 340-365.000.
- Brawn, Darrell S., to Eaton Yale & Towne, Inc. Safety apparatus. 3,640,546, 2-8-72, Cl. 280-150.
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Horsley, Caperton B., 3,681,009.
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- Braymer, Hugh D.: *See*—
Larson, Alworth D.; Braymer, Hugh D.; and Broussard, Evest A., III, 3,692,631.
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Brazda, Ladislav; Prochazka, Miloslav; Kuhn, Vladimir; and Ozdian, Josef, 3,667,205.
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- Brazell, James W., to Heath International, Inc., *mesne*. Gear type coupling. 3,707,081, 12-26-72, Cl. 64-9.00r.
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- Brazerol, William: *See*—
Briggs, Southwick W., 3,656,627.
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Levy, Alan A.; Rodger, Mitchell N.; and Breach, Geoffrey D., 3,671,629.
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- Bream, John Bernard; and Picard, Claude W., to Wander, Dr. A., SA. Substituted phenylacetyl derivatives of guanidine, o-alkylisoureas, s-alkylisothiourcas, and p-nitrobenzylisothiourca. 3,632,645, 1-4-72, Cl. 260-558.
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Jordan, John F.; Brean, John W.; and Mathevosian, Yervand, 3,680,951.
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Aleks, Vytant, 3,640,498.
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- Gubler, Kurt; Meyer, Urs; and Brechbuhler, Hans Ulrich, 3,699,225.
- Brechbuhler, Hans Ulrich; and Gubler, Kurt, to Ciba-Geigy Corporation. Basically substituted 1-cyano-O-carbamoyl-formoximes. 3,673,236, 6-27-72, Cl. 260-465.400.
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Kalinin, I. L.; and Breckenridge, G. J., 3,677,804.
- Breckenridge, George J.: *See*—
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- Breckenridge, Wilbur T., Jr. Grass catcher. 3,662,527, 5-16-72, Cl. 56-200.000.
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- Brecker, Lawrence R.; and Thee, Alfred, to Argus Chemical Corporation. Reaction products of dialkyltin oxides and higher dialkyltin monohydric aliphatic saturated alcohol esters of thiomalic and thiolactic acids. 3,642,848, 2-15-72, Cl. 260-429.7.
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- Bredemeier, Herbert C., to American Optical Corporation. Laser accessory for surgical application. 3,659,613, 5-2-72, Cl. 128-395.
- Bredereck, Hellmut F. I.; Iliopulos, Miltiadis I.; and Wieder, Horst F. Bis-(p-hydroxyphenyl) alkyl-phosphonic acid esters, process for preparing the same. 3,702,879, 11-14-72, Cl. 260-953.000.
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Nissle, William N.; Slaby, Robert K.; and Bredeson, Dean K., 3,684,252.
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- Bredlow, Harvey F., to Graham-White Sales Corporation. Pneumatic starting system for diesel engines. 3,667,442, 6-6-72, Cl. 123-179.00f.
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- Bredow, Walter, to Behrens, C., Aktiengesellschaft. Longitudinal carriage drive for co-ordinates tables in machine tools, particularly punching machines. 3,650,133, 3-21-72, Cl. 72-1.
- Bredt, James H.: *See*—
Kendall, Louis F., Jr.; and Bredt, James H., 3,650,844.
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- Bredzs, Nikolajs; and Miller, Forbes M., to Wall Colmonoy Corporation. Cermet-type alloy and method of making same. 3,666,436, 5-30-72, Cl. 75-50r.
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- Breece, Burton W.; and Summerer, Raymond Edwin, to General Motors Corporation. Vehicle low coolant level indicating device. 3,636,509, 1-18-72, Cl. 340-59.
- Breed, Arthur R., to Lamson & Sessions Co., The. Lock bolt and method of making the same. 3,701,372, 10-31-72, Cl. 151-22.000.
- Breed, Charles P.; and Anderson, Melvin R., to Westinghouse Electric Corporation. Area lighting luminaire. 3,697,740, 10-10-72, Cl. 240-46.370.
- Breed, David S. Rocket fuse with a cocked piston. 3,651,761, 3-28-72, Cl. 102-80.
- Breed, David S. Liquid integrating accelerometer. 3,694,594, 9-26-72, Cl. 200-61.470.
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- Breeden, William J.: *See*—
Pearce, Godfrey R.; and Breeden, William J., 3,686,536.
- Breeding, Dillard, to Breeding Insulation Company, Inc. Method and apparatus for forming fitting covers. 3,638,365, 2-1-72, Cl. 51-281.
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- Breen, Charles, to Bell Telephone Laboratories, Incorporated. Call forwarding arrangement for telephone answering service systems. 3,637,947, 1-25-72, Cl. 179-27.
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Schneider, Marion F.; and Breen, Edward L., 3,678,275.
- Breen, William J. Flush valve assembly. 3,675,249, 7-11-72, Cl. 4-57.00p.
- Breen, William Ross, to Hubert Industries Limited. Safety rail. 3,633,862, 1-11-72, Cl. 248-251.
- Breer, Karl; and Lauterbach, Udo, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for introducing substances into a foamable mixture for forming a foam material. 3,638,915, 2-1-72, Cl. 259-4.
- Breer, Karl Wilhelm; and Weinbrenner, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Process and apparatus for applying polyurethane foam-forming composition. 3,705,821, 12-12-72, Cl. 117-105.300.
- Breetvelt, Emile, to Intermenua (Proprietary) Limited. Shearing machines. 3,664,221, 5-23-72, Cl. 83-196.000.
- Breeze, Eric G.; and Sabel, John O., to Kaiser Aerospace and Electronics Corporation. Display system for providing radar plan position information on a raster display. 3,653,044, 3-28-72, Cl. 343-5.
- Brefka, Paul E.: *See*—
Danti, Bernard R.; Brefka, Paul E.; and Merrill, Wayne S., 3,652,169.
- Danti, Bernard R.; and Brefka, Paul E., 3,699,291.
- Latham, Peter A.; and Brefka, Paul E., 3,664,669.
- Brefka, Paul E.; and Latham, Peter A., to Millipore Corporation. Storage and dispensing package for stacked sheet material. 3,666,140, 5-30-72, Cl. 221-46.000.
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Piana, Francesco; and Brega, Angelo, 3,640,094.
- Bregantini, Robert R., to Kelley Company, Inc. Safety mechanism for a hydraulically operated dockboard. 3,656,199, 4-18-72, Cl. 14-71.
- Breger, William N. Environmental control capsule and system therefor. 3,661,145, 5-9-72, Cl. 128-2.
- Bregi, Benjamin F.; McNabb, Warren C.; and Daniel, David W., to Lear Siegler, Inc. Gear rolling die and method of use. 3,631,703, 1-4-72, Cl. 72-108.
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- Bregi, Benjamin F., to Lear Siegler, Inc. Pot broaching machine. 3,651,738, 3-28-72, Cl. 90-10.
- Bregi, Benjamin F.; Motz, Carl H.; and Bassoff, Arthur B., to Lear Siegler, Inc. Combined gear shaving and rolling machine. 3,659,335, 5-2-72, Cl. 29-560.
- Breglia, Denis R.: *See*—
Derderian, George; and Breglia, Denis R., 3,681,608.
- Brehm, Hans, to Freudenberg, Carl. Device for the uniform application of small amounts of a powdery material onto surface configurations. 3,650,243, 3-21-72, Cl. 118-308.
- Brehm, Herbert, to Siemens Aktiengesellschaft. Method to produce symbols composed of straight lines on the screen. 3,681,646, 8-1-72, Cl. 315-18.000.
- Brehmer, Harald: *See*—
Rheude, Franz Gustav; Munster, Franz; and Brehmer, Harald, 3,687,714.
- Breidbach, Gunter: *See*—
Kirschneck, Helmut; Hildebrand, Dietrich; and Breidbach, Gunter, 3,643,270.
- Breidenbach, Josef: *See*—
Holler, Hans; Breidenbach, Josef; and Milles, Aloys, 3,703,590.
- Breidenbach, Josef, to Gebruder Holler G.m.b.H. Bag processing machine. 3,631,768, 1-4-72, Cl. 93-33.
- Breidenstein, Kenneth R., to Kraftco Corporation. Method of making cottage cheese. 3,697,293, 10-10-72, Cl. 99-116.000.
- Breikss, Ivars P., to Honeywell Inc. Frequency divider. 3,702,382, 11-7-72, Cl. 179-100.20r.
- Breil, Heinz: *See*—
Ziegler, Karl; and Breil, Heinz, 3,702,309.
- Breiling, Hans Georg, to Dragerwerk Aktiengesellschaft. Anesthetic vaporizer. 3,651,805, 3-28-72, Cl. 128-188.
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- Breiner, A. W.: *See*—
Oscari, Romano, 3,685,240.
- Breiner, Richard C., to Nicolet Industries, Inc. Lehr roll millboard formed from asbestos fibers and employing colloidal silica-calcium lime and bentonite as a binder. 3,692,509, 9-19-72, Cl. 65-118.000.
- Breitbach, Fritz; and Choulal, Gustav, to Still, Carl, Firma. Process for decomposing ammonia. 3,661,507, 5-9-72, Cl. 23-2.
- Breitbach, Irwin G. Wig form. 3,693,848, 9-26-72, Cl. 223-66.000.
- Breitenbach, Karl-Heinz, to SKF Kugellagerfabriken GmbH. Apparatus for spinning yarn. 3,673,781, 7-4-72, Cl. 57-58.890.
- Breitenbach, Otto: *See*—
Baum, Walter Karl-Theodor; and Breitenbach, Otto, 3,674,933.
- Breitenbach, Otto, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Delay line. 3,639,860, 2-1-72, Cl. 333-29.
- Breitenmoser, Jurg: *See*—
Daume, Eduard; and Breitenmoser, Jurg, 3,669,924.
- Breitfuss, Roman, to Enteco Establishment. Apparatus for forming a tube socket on a tube consisting of thermoplastic synthetic material. 3,689,190, 9-5-72, Cl. 425-392.000.

- Breitfuss, Thomas K. Keyed joint arrangement for interconnecting pipe sections. 3,677,581, 7-18-72, Cl. 285-292.000.
- Breitfuss, Thomas K., to Hydro Conduit Corporation. Load lifting and transport vehicle. 3,682,334, 8-8-72, Cl. 214-75.00g.
- Breithaupt, John T., and Garcia, Raymond T., to Shell Oil Company. Stair-step thermal recovery of oil. 3,692,111, 9-19-72, Cl. 166-252.000.
- Breitkopf, Stephen H., and Scaduto, Michael, to American Hospital Supply Corporation. Method of making disposable garments. 3,699,591, 10-24-72, Cl. 2-243.00r.
- Breitkopf, Walter J.; Bayer, Jack L.; and Bayer, Leon F., to Bayer Industries, Inc. Machine tool table position locating means. 3,639,071, 2-1-72, Cl. 408-91.
- Breitreuz, Lutz: *See*—
Dennewitz, Rolf Dieter; and Breitreuz, Lutz, 3,703,662.
- Breitschaft, Siegfried; and Holtermann, Rolf, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of high-molecular weight polyesters. 3,634,359, 1-11-72, Cl. 260-75.
- Breitschwerdt, Werner; Andres, Rudolf; and Busch, Gerhard, to Daimler-Benz Aktiengesellschaft. Installation for cleaning the cover panes of motor vehicle headlights. 3,671,994, 6-27-72, Cl. 15-250.360.
- Breitwieser, Heinz; and Heinz, Otto, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Wall covering defining a continuous ventilating conduit. 3,686,813, 8-29-72, Cl. 52-303.000.
- Brejcha, Robert J.; and Corbett, William H., to Everpure, Inc. Test plug for filter assembly. 3,696,669, 10-10-72, Cl. 73-168.000.
- Brekle, Oliver R., to M&B Metal Products Company. Apparatus for preparing wire for drawing. 3,641,970, 2-15-72, Cl. 118-5.
- Brelsford, John E.: *See*—
Greiner, James G.; and Brelsford, John E., 3,704,028.
- Brembach, Burkart; Eisinger, Alfred; Horneff, Hans; and Zahn, Heinrich, to Fernseh G.m.b.H. Method and system for correcting color errors in color films during television transmission. 3,660,595, 5-2-72, Cl. 178-5.20a.
- Bremer, Georg Fritz, to Dymo Industries, Inc. Compact embossing tool. 3,664,477, 5-23-72, Cl. 197-6.7.
- Bremer, Robert D.: *See*—
Fry, Millard E.; and Bremer, Robert D., 3,668,371.
- Bremmer, James S.; and Koste, Bernard F.; deceased (by Koste, Elsie E.; executrix). Agitator apparatus. 3,675,904, 7-11-72, Cl. 259-108.000.
- Bremner, Alexander McColl; and Squire, John Mansel, to British Petroleum Company Limited. The Preparation of toughened polyvinyl aromatic compound. 3,660,325, 5-2-72, Cl. 260-17.00r.
- Bremner, David F.; and Smith, Stephen B., to National Cash Register Company. The Compact label printer. 3,690,250, 9-12-72, Cl. 101-95.000.
- Brenner, Ian: *See*—
Alsop, Randolph Michael; and Brenner, Ian, 3,639,588.
- Brenner, James Duncan; and McLellan, Ian Alexander, to Imperial Chemical Industries Limited. Melt spinning process. 3,706,826, 12-19-72, Cl. 264-176.00f.
- Bremont, Genevieve, to Paulstra. Coupling system for vehicles in particular railway vehicles. 3,637,088, 1-25-72, Cl. 213-45.
- Brems, John H. Multiple step indexing and reversing drive mechanism. 3,680,399, 8-1-72, Cl. 74-89.000.
- Bremshey & Co.: *See*—
Ambrosius, Manfred, 3,705,745.
Weber, Heinz, 3,650,284.
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- Bremshey & Co., Firma: *See*—
Busse, Fritz, 3,640,228.
Dorn, Heinz, 3,656,439.
- Bremshey, Fritz, to Telesco Brophey Limited. Longitudinally collapsible flat umbrella. 3,640,297, 2-8-72, Cl. 135-25.
- Bremson Photo Industries, Inc.: *See*—
Daugherty, Arthur J., 3,677,638.
- Brenda Mines, Ltd.: *See*—
Stanley, Robert W.; Ames, Horace L.; and Jennings, Peter H., 3,674,424.
- Brendel, Gottfried J., to Ethyl Corporation. Synthesis of substituted 7-octen-1-ols. 3,674,846, 7-4-72, Cl. 260-632.00r.
- Brendel, Gottfried J.; and Shepherd, Lawrence H., Jr., to Ethyl Corporation. Branched chain alkenols. 3,692,847, 9-19-72, Cl. 260-633.000.
- Brendel, Klaus-Dieter: *See*—
Meyer, Erwin; Brendel, Klaus-Dieter; Blau, Hans; and Stoof, Gerhard, 3,647,022.
- Brendemuehl, Roger C., to Warner Electric Brake & Clutch Company. Photoelectric discontinuity and the like detector for multi-element arrays. 3,676,009, 7-11-72, Cl. 356-199.000.
- Brenden, Byron B.; and Kidman, Russell B. Ultrasonic interference pattern detector. 3,683,679, 8-15-72, Cl. 73-67.50h.
- Breder, Ronald F.; and Foy, John L., Jr., to Battelle Development Corporation, The, mesne. Digital communication interface. 3,638,195, 1-25-72, Cl. 340-172.5.
- Brendgord, Thomas, to American Sterilizer Company. Patient care wall. 3,670,718, 6-20-72, Cl. 128-1.00r.
- Brendgord, Thomas; and Kereluk, Karl, to American Sterilizer Company. Portable isolator. 3,678,921, 7-25-72, Cl. 128-1.00r.
- Brendle, Thomas A., to Audn Corporation. Recording and indicating system particularly for locomotives and the like. 3,655,955, 4-11-72, Cl. 235-151.31.
- Brendler, Otfried: *See*—
Boltze, Karl-Heinz; Brendler, Otfried; and Lorenz, Dietrich, 3,692,818.
Boltze, Karl-Heinz; Brendler, Otfried; and Lorenz, Dietrich, 3,694,489.
- Brendt, Dieter; Helms, Gerd; and Keunecke, Gerhard, to Chemiebau Dr. A. Zieren GmbH & Co. KG. Process for the purification of crude phthalic anhydride by plural stage vacuum distillation with side stream product recovery. 3,699,008, 10-17-72, Cl. 203-72.
- Breneman, Edwin J., to Kollmorgen Corporation. Veiling reflection and illumination meter. 3,703,338, 11-21-72, Cl. 356-222.000.
- Breneman, Andrew J.; and Krasno, Maxwell R., to Textron, Inc. Methane gas detection system using infrared. 3,662,171, 5-9-72, Cl. 250-83.3.
- Brenig, Theodore; Smith, James S., Jr.; and Woodie, Paul E., Jr., to General Electric Company. Synchronizing system. 3,689,699, 9-5-72, Cl. 179-15.0bs.
- Brennan, Henry Stephen. Method and means for visual presentation of occlusal sounds and for analysis and comparison thereof. 3,651,577, 3-28-72, Cl. 32-19.
- Brenn, Gemma Adriana. Spectacles having bands that reduce facial wrinkles. 3,675,991, 7-11-72, Cl. 351-41.000.
- Brennan, Francis P. Edge conditioning mechanism. 3,690,139, 9-12-72, Cl. 72-199.000.
- Brennan, George A., to Challenge-Cook Bros. Incorporated. Method and apparatus for the bulk process of hides or the like. 3,665,735, 5-30-72, Cl. 69-30.
- Brennan, George Andrew. Air pollution detectors. 3,698,871, 10-17-72, Cl. 23-254.00r.
- Brennan, James, Jr.; Pope, Hermon L., Jr.; and Boren, Donald F., to Texas Instruments, Incorporated. Electronic printing input-output station. 3,638,197, 1-25-72, Cl. 340-172.5.
- Brennan, James Leo; and Ford, Gerald Paul, to Stauffer-Wacker Silicone Corporation, mesne. Preparation of alkoxyorganopolysiloxane resins. 3,668,180, 6-6-72, Cl. 260-46.5.
- Brennan, John F.: *See*—
Lester, George R.; and Brennan, John F., 3,679,704.
- Brennan, John F., to Universal Oil Products Company. Closure for high pressure chamber. 3,672,534, 6-27-72, Cl. 220-46.00p.
- Brennan, Leo C., to Avco Corporation. Preparation of III-V alloys for infrared detectors. 3,634,143, 1-11-72, Cl. 148-1.6.
- Brennan, Leon E.; Mower, Frederick J.; Place, Fred A.; Shanks, David A.; Simpson, Neville H.; and Zander, William L., Sr., to Sylvania Electric Products, Inc. Wire cleaning machine. 3,634,899, 1-18-72, Cl. 15-4.
- Brennan, Martin J.: *See*—
James, Peter; Brennan, Martin J.; and Kappes, Ben E., 3,647,973.
- Brennan, William R.; and Sabatelli, Philip M., to Grace, W. R., & Co. Chlorinated machine dishwashing composition and process. 3,637,509, 1-25-72, Cl. 252-99.
- Brennan, William R., to Chemed Corporation. Storage stable detergent composition. 3,703,470, 11-21-72, Cl. 252-99.000.
- Brennecke, Manfred: *See*—
Biesterfeld, Horst; Brennecke, Manfred; and Widmann, Sampo, 3,645,036.
- Brenneisen, Paul: *See*—
Bosshard, Rene; Gubler, Kurt; Aufderhaar, Ernest; and Brenneisen, Paul, 3,676,450.
- Paltauf, Fritz; Margot, Alfred; and Brenneisen, Paul, 3,697,555.
- Brenneke, Arthur M., to TRW Inc. Method and apparatus for reducing exhaust emissions during acceleration. 3,659,415, 5-2-72, Cl. 60-13.
- Brenneke, Arthur M., to TRW Inc. Plastics filled piston ring. 3,697,090, 10-10-72, Cl. 277-157.000.
- Brenneman, Homer K.: *See*—
Cable, Russell D.; and Brenneman, Homer K., 3,685,535.
- Brenneman, Richard S.; Clancy, John J.; Macleish, William T.; and Wells, Robert C., to Little, Arthur D., Inc. Coating composition and article coated with same. 3,637,431, 1-25-72, Cl. 117-155.
- Brenneman, Roderick L.; and McLeon, Daniel M., to Georgia-Pacific Corporation. Method for fastening wood veneer sheets together edge to edge. 3,705,829, 12-12-72, Cl. 156-65.000.
- Brennen, Ronald F. Spark plug. 3,673,452, 6-27-72, Cl. 313-141.000.
- Brenner, Abner; and Anderson, Harvey J., to United States of America, Atomic Energy Commission. Vapor deposition of rhenium and rhenium-tungsten alloy coatings. 3,703,405, 11-21-72, Cl. 117-107.200.
- Brenner, Bruce C., to Dow Corning Corporation. Lubricant compositions. 3,671,433, 6-20-72, Cl. 252-49.600.
- Brenner, Henry D., to Hanksraft Company. Display device. 3,633,296, 1-11-72, Cl. 40-53.

- Brenner, Hermann, to Sigloch, Walter, Grossbuchbinderei. Device for feeding book pads to a trimming machine. 3,633,727, 1-11-72, Cl. 198-27.
- Brenner, Hermann, to Sigloch, Walter, Grossbuchbinderei. Device for cutting and gluing gauze strips on book pad backs. 3,649,414, 3-14-72, Cl. 156-521.
- Brenner, I. Edward. Dam retaining dental band assembly. 3,638,315, 2-1-72, Cl. 32-63.
- Brenner, Lawrence A., to Beloit Corporation. Apparatus for applying glue to leading and trailing edges of a wrapper sheet. 3,688,735, 9-5-72, Cl. 118-2.
- Brenner, Leonard C., to Burroughs Corporation. Digitally nulled magnetic detection system. 3,697,870, 10-10-72, Cl. 324-43.00r.
- Brenner, Lutz; and Gerhardt, Wolfgang, to VEB Spinn-Und Zwirner-Maschinenbau Karl-Marx-Stadt. Stuffing box crimping device. 3,641,637, 2-15-72, Cl. 28-1.6.
- Brenner, Mannie; Chase, Fred L.; and Leydon, Arthur J., to Grace, W. R., & Co. Gasket-forming solvent-based compositions containing styrene-butadiene block copolymers. 3,676,386, 7-11-72, Cl. 260-27.000.
- Brenner, Morris, to United States of America, Army. Shock machine. 3,665,749, 5-30-72, Cl. 73-12.000.
- Brenner, Walter; Goswami, Jagadish Chanda; and Rugg, Barry A., to United States of America, Agriculture. Method of depositing an oxymethylene polymer from formaldehyde in the vapor form on cellulosic textiles and the resulting product. 3,663,158, 5-16-72, l. 8-116.400.
- Brenner, Warren W.: *See*—
Egli, Paul H.; Brenner, Warren W.; and Wilcox Martin H., 3,651,798.
- Brenner, William C.: *See*—
Heller, Paul R.; Brenner, William C.; and Phillosky, Harold M., 3,647,932.
- Brenot, Claude; and Mollard, Gaston, to Thomson-CSF. Fluid stream direction indicator. 3,702,562, 11-14-72, Cl. 73-1.00e.
- Brent, Albert: *See*—
Teichmann, Charles F.; and Brent, Albert, 3,671,209.
- Brent, Albert; and Teichmann, Charles F., to Texaco Development Corporation. Sewage disposal process. 3,687,646, 8-29-72, Cl. 48-209.000.
- Brent, Allan L.: *See*—
Szulagyi, Bela A.; Brent, Allan L.; and Greguss, Pal, 3,680,501.
- Brent, John T., Jr.; and Page, Jack S., to Grace, W. R., & Co. Process for purifying gypsum using fluosilicic acid. 3,642,456, 2-15-72, Cl. 23-304.
- Brents, J. W. Anchor device for door frames. 3,698,146, 10-17-72, Cl. 52-214.000.
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- Breschi, Enzo: *See*—
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- Bresin, Adam. Exchanger for cooling fluids. 3,670,522, 6-20-72, Cl. 62-333.000.
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- Bresler, Semen Efimovich; Kazbekov, Embek Nikolaevich; and Fomichev, Viktor Nikolaevich. Method of investigation of electronic paramagnetic resonance. 3,705,345, 12-5-72, Cl. 324-50r.
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- Breslow, Jeffrey D., to Glass, Marvin, & Associates. Skill type game. 3,643,955, 2-22-72, Cl. 273-119.
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- Breslow, Jeffrey D., to Glass, Marvin, & Associates. Projectile displacing apparatus including stressable strands and missiles. 3,698,714, 10-17-72, Cl. 273-119.00r.
- Breslow, Jeffrey D., to Glass, Marvin, & Associates. Board game apparatus. 3,705,727, 12-12-72, Cl. 273-135.00b.
- Breslow, Leon. Article hanging apparatus. 3,672,622, 6-27-72, Cl. 248-224.000.
- Breslow, Ronald; Baldwin, Steven; and Winnik, Mitchell. Remote oxidation of unactivated steroid methylene groups. 3,684,801, 8-15-72, Cl. 260-239.570.
- Bressan, Giancarlo; and Gafa, Salvatore, to Montecatini Edison S.p.A. Process for the removal of nitric oxide from industrial gases. 3,635,657, 1-18-72, Cl. 23-2.
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- Bresser, Thomas G. Golf club carrier or cart. 3,679,226, 7-25-72, Cl. 280-47.190.
- Bressickello, Tony J.: *See*—
Norman, Richard R., 3,699,741.
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- Bresson, Clarence R., to Phillips Petroleum Company. Purification of alcohols. 3,642,915, 2-15-72, Cl. 260-643.
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Metzger, Lenard M.; Bresson, Richard J.; and McConaughy, Randall T., 3,662,659.
- Bresson, Richard J.; and Dierks, James E., to Eastman Kodak Company. Gear drive for a camera and film cartridge. 3,650,489, 3-21-72, Cl. 242-71.2.
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Schmitt, Arthur N., 3,688,183.
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- Bret, Pierre; and Suck, Catherine, to Societe Lablabo. Valves. 3,684,195, 8-15-72, Cl. 239-561.000.
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- Bergey, John M.; Le Van, James O.; Walton, Richard S.; and Brethauer, Louis G., 3,676,993.
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- Brett, Wayne E., to Motorola, Inc. Gamma control circuit. 3,633,121, 1-4-72, Cl. 330-40.
- Breton, Roger J.; and Beck, David F., to Roto Manufacturing Company, Inc. Apparatus for coring and pressing juice from fruits having a rind. 3,682,092, 8-8-72, Cl. 100-52.000.
- Bretsch, Michael A.: See—
Podiak, Richard S.; Mack, James M.; and Bretsch, Michael A., 3,668,749.
- Bretschneider, Erich, to Siemens Siegener Maschinenbau, G.m.b.H. Roll stand with working rolls supported in chocks. 3,675,455, 7-11-72, Cl. 72-238.000.
- Bretschneider, Erich J. F. E., to SIEMAG Siegener Maschinenbau GmbH. Rolling mill. 3,643,488, 2-22-72, Cl. 72-191.
- Bretschneider, Hermann; and Patlik, Alois, to U.S. Philips Corporation. Adaptor for use on a recording and/or playback apparatus. 3,632,894, 1-4-72, Cl. 179-100.2.
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- Brett, Thomas J., Jr.: See—
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- Brettell, Charles C. Multiple use pouch. 3,631,613, 1-4-72, Cl. 36-2.5.
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- Bretti, Franco, to Olivetti, Ing., C., & C., S.p.A. High speed serial printing device for typewriters, teleprinters, calculating machines, accounting machines and the like. 3,706,367, 12-19-72, Cl. 197-55.000.
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Godtfredsen, Wagn Ole; and Bretting, Claus Aage Svendsgaard, 3,634,467.
- Bretting, Klaus, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Plug connector for flat conductor strip line. 3,641,482, 2-8-72, Cl. 339-196.
- Breu, Hanspeter: See—
Hofling, Erich; and Breu, Hanspeter, 3,647,658.
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Gaeth, Rudolf; Stastny, Fritz; Breu, Rudolf; and Gaertner, Friedrich, 3,640,837.
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Brown, Charles W.; Blier, Marion D.; and Breuel, Jerry F., 3,699,904.
- Breuer, Hans; Manner, Erich; and Michl, Karl-Heinz, to Wacker-Chemie G.m.b.H. Molding substances of low- and high-pressure polyethylene. 3,700,759, 10-24-72, Cl. 260-897.000.
- Breuer, Herman, to Olin Mathieson Chemical Corporation. N-Acyl-substituted-N'-hydroxyguanidines as herbicides. 3,632,333, 1-4-72, Cl. 71-118.
- Breuer, Herman, to Olin Chemical Co., Inc. Halogenated aryloxyacetyl cyanamides as herbicides. 3,635,692, 1-18-72, Cl. 71-97.
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- Breuer, Herman, to Squibb, E. R., & Sons, Inc. Method of controlling nematodes. 3,705,247, 12-5-72, Cl. 424-272.000.
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- Breuer, Hubert, to Uniroyal Englebert Deutschland AG. Apparatus for pressing the seams or splices of raw tires. 3,690,992, 9-12-72, Cl. 156-412.000.
- Breuer, Max E.: See—
Parikh, Jekishan R.; and Breuer, Max E., 3,705,181.
- Breuers, Theo Pierre Cretien, to Van Der Grinten N.V. Photocopying machine. 3,655,287, 4-11-72, Cl. 355-97.
- Breuner, Gerald L. Rotor hub and blade attachments. 3,667,863, 6-6-72, Cl. 416-138.
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- Breunich, Theodore R.: See—
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- DiNoia, Emanuel J.; Klatte, Henry B.; and Breunich, Theodore R., 3,686,708.
- Breunich, Theodore R.; and Klatte, Henry B., to Universal Oil Products Company. Door hinge. 3,651,539, 3-28-72, Cl. 16-128.
- Breunich, Theodore R.; and Dinoia, Emanuel J., to Universal Oil Products Company. Differential pressure transducer. 3,662,603, 5-16-72, Cl. 73-398.
- Breunsbach, Maurice C., to Spirolet Corporation. Nozzle. 3,692,243, 9-19-72, Cl. 239-401.000.
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Tesch, Gunter Horst; and Colijn, Johannes J. V., 3,682,739.
- Brevets Aero-Mecaniques S.A.: See—
Maillard, Bernard, 3,653,289.
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- Brevick, Arnold A., to UID Electronics Corporation. Slide switch with snap action. 3,674,953, 7-4-72, Cl. 200-77.000.
- Brevick, Arnold Aage, to Bunker-Ramo Corporation. The. Magnetic switches and method and apparatus for making same. 3,673,526, 6-27-72, Cl. 335-205.000.
- Brevik, Elmer Lawrence. Face mask. 3,695,265, 10-3-72, Cl. 128-146.200.
- Brewer, Cecil G.: See—
Turner, David, 3,655,114.
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- Brewer, Earl G.: See—
Bailey, Donald J.; and Brewer, Earl G., 3,694,269.
- Brewer Engineering Laboratories, Inc.: See—
Brewer, Given A., 3,639,875.
- Brewer, Gerald L., to Universal Oil Products Company. Thermal incineration unit. 3,706,533, 12-19-72, Cl. 23-277.00c.
- Brewer, Given A., to Brewer Engineering Laboratories, Inc. Strain gage assembly and method of attachment. 3,639,875, 2-1-72, Cl. 338-2.
- Brewer, John C., to Garbalizer Corporation of America. Integrated municipal waste processing system and method. 3,635,409, 1-18-72, Cl. 241-43.
- Brewer, John C., to Garbalizer Corporation of America. Integrated garbage processing system. 3,660,038, 5-2-72, Cl. 23-259.100.
- Brewer, John C., to Garbalizer Corporation of America. Vehicle body-shell processing plant. 3,706,289, 12-19-72, Cl. 110-18.00r.
- Brewer, Lee M., to General Motors Corporation. Flow divider control valve assembly. 3,703,186, 11-21-72, Cl. 137-101.000.
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- Brewer, Robert W., to General Motors Corporation. Filler cap. 3,703,245, 11-21-72, Cl. 220-40.00r.
- Brewer, Sherman Theodore, to Bell Telephone Laboratories, Incorporated. Repeated submarine cable system. 3,676,613, 7-11-72, Cl. 179-170.00t.
- Brewer, Waldo L.; and Laukaitis, Joseph F., to Eastman Kodak Company. Automatic searching system. 3,700,320, 10-24-72, Cl. 353-26.000.
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- Brewer, William B., to Weir Magic Pit Corporation. Method of manufacturing wood-siding panels. 3,682,212, 8-8-72, Cl. 144-318.000.
- Brewer, Willie F.: See—
Dahlberg, Franklyn L.; and Brewer, Willie F., 3,633,679.
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De Bruyne, Norman A.; and Brewin, Geoffrey M., 3,693,658.
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- Brewitz, Frederick G., to Minnesota Mining and Manufacturing Company. Developer. 3,648,019, 3-7-72, Cl. 219-386.
- Brown, Margery Joy: See—
Brown, Warren F., 3,640,279.
- Brewster, Alan R.: See—
Mortimer, Frank R.; Brewster, Alan R.; and Bartram, Michael J., 3,700,075.
- Brewster, Arthur Edward, to International Standard Electric Corporation. Facsimile device with provisions for direct viewing of an intermediate record. 3,637,934, 1-25-72, Cl. 178-6.6.
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- Brewster, Don. Hay harvesting machine. 3,691,742, 9-19-72, Cl. 56-346.000.
- Brewster, Phillip W.; and MacDonald, John M., to Esso Research and Engineering Company. Fast cold quench oil for metals. 3,681,150, 8-1-72, Cl. 148-29.000.

- Brex Corporation: See—
Anderson, Earl R., 3,666,092.
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- Brey, Christian: See—
Allemand, Robert; Brey, Christian; and Jacobe, Jean, 3,703,638.
- Brey, Wilhelm; Hostetter, William; Loeffler, Earl Ferdinand; Kolm, Hubert Ernest; and Elder, Fred Grove, to Firestone Tire & Rubber Company, The. Tire building machine having means advancing a plurality of drums through a plurality of assembly stations. 3,705,526, 10-24-72, Cl. 156-396.000.
- Breza, Cyril J., to Du Pont de Nemours, E. I., and Company. Gelled acidic explosive compositions. 3,661,659, 5-9-72, Cl. 149-19.
- Brezosky, Bernard J., to General Electric Company. Faucet coupling assembly for a washing machine. 3,635,243, 1-18-72, Cl. 137-583.
- Brian, Robert Coles; and Bland, Peter Douglas, to Imperial Chemical Industries Limited. Plant treatment composition comprising a plant treatment chemical, a wetting agent and an aliphatic alcohol. 3,673,087, 6-27-72, Cl. 252-1.000.
- Briand, Roger H., to Compagnie Internationale pour l'Informatique. Numerical data multi-processor system. 3,665,412, 5-23-72, Cl. 340-172.5.
- Briar, John R.: See—
Schlotterbeck, David L.; and Briar, John R., 3,698,204.
- Bricard, Pierre: See—
Petit, Gerard; and Bricard, Pierre, 3,706,986.
- Brichard, Edgar; Jaupain, Maurice; Plumet, Emile; and Deschepper, Pierre, to Glaverbel S.A. Method of forming refractory masses. 3,684,560, 8-15-72, Cl. 117-105.100.
- Brichard, Edgar, to Glaverbel. Process for the treatment or production of floating flat glass. 3,645,713, 2-29-72, Cl. 65-99.
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- Brichard, Edgar, to Glaverbel. Refractory furnace wall of a glass sheet floating tank. 3,652,251, 3-28-72, Cl. 65-182.
- Brichard, Edgar, to Glaverbel. Method of constructing a composite refractory hearth in a float glass furnace. 3,657,399, 4-18-72, Cl. 264-30.
- Brichard, Edgar; and Declaye, Joseph, to Glaverbel. Refractory elements for a glass float furnace wall. 3,669,640, 6-13-72, Cl. 65-182.00r.
- Brick, Edmund J., 50% to Brick, Thomas J., 21% to Roberts, Theresa A. and 21% to Young, William E. Tambourine. 3,675,528, 7-11-72, Cl. 84-418.000.
- Brick, Thomas J.: See—
Brick, Edmund J., 3,675,528.
- Brickell, Christopher G.: See—
Melville, Alfred W.; O'Hare, David H.; and Brickell, Christopher G., 3,659,604.
- Bricker, Carl E., to Goodyear Tire & Rubber Company, The. Cloverleaf brake structure. 3,687,240, 8-29-72, Cl. 188-71.100.
- Bricker, Carl E.; and Hillegass, Kenneth P., to Goodyear Tire & Rubber Company, The. Floating lining high torque brake assembly. 3,687,247, 8-29-72, Cl. 188-335.000.
- Bricker, Jack A.; and Shaw, Hugh E., Jr., to PPG Industries, Inc. Glass defect detection system. 3,656,854, 4-18-72, Cl. 356-119.
- Brickhouse, Abner A.; and Schipper, Dirk A. Quick-release coupling. 3,642,307, 2-15-72, Cl. 285-38.
- Brickley, Alfred H.: See—
Halls, Kenneth F.; and Brickley, Alfred H., 3,640,159.
- Bricknell, William H.: See—
Doel, R Garth; Bricknell, William H.; and Osipenko, Stephen, 3,643,712.
- Brickner, David R.: See—
Baker, Donald H.; and Brickner, David R., 3,683,668.
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- Brickner, David R.; and Schell, Sidney T., to Sperry Rand Corporation. Controlled magnitude repeater for synchro and resolver signals. 3,705,980, 12-12-72, Cl. 235-186.000.
- Brickner, Joseph L. Self-adjusting vehicle detector system. 3,685,013, 8-15-72, Cl. 340-38.00l.
- Brickner, Kenneth G.; and Ratz, George A., to United States Steel Corporation. Method for producing minimum-ridging type 430 Mo stainless steel sheet and strip. 3,655,459, 4-11-72, Cl. 148-12.
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Baxendale, Albert E., 3,661,126.
- Baxendale, Albert Edward; and Young, Edward John, 3,702,603.
- Bloomfield, George Vincent, 3,705,572.
- Croft, Brian Hugh, 3,661,131.
- Farmer, Edwin B.; Cadle, Terence M.; and Lane, Martin S., 3,694,173.
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Margulies, Marcel Hidore, 3,681,178.
- Bridell, Charles D. Portable garment pressing device. 3,665,624, 5-30-72, Cl. 38-71.000.
- Bride, John Edwin: See—
Huba, Francis; and Bride, John Edwin, 3,706,641.
- Bride, John Edwin, to Du Pont de Nemours, E. I., and Company. Preparing plating bath containing chromic compound. 3,706,636, 12-19-72, Cl. 204-51.000.
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- Bridel, Laiteries E.: See—
Barbier, Jean-Pierre; and Feugnet, Jean-Pierre, 3,672,056.
- Bridenbaugh, Paul Michael; Carruthers, John Robert; and Nash, Franklin Richard, to Bell Telephone Laboratories, Incorporated. Modified LiNbO₃ composition devices utilizing same. 3,665,205, 5-23-72, Cl. 307-88.300.
- Bridenstine, Orville J., to Phillips Petroleum Company. Tray. 3,648,883, 3-14-72, Cl. 220-66.
- Bridenstine, Orville J.; Shutt, Melvin S.; and Brookshire, Harry A., to Phillips Petroleum Company. Tray collar and tray-collar combinations. 3,672,530, 6-27-72, Cl. 220-4.00r.
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Mitchell, David S.; Bridge, Alan G.; and Scott, John W., 3,674,682.
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Davis, Cecil J., 3,684,164.
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Davis, Cecil J., 3,642,271.
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Walton, George N., 3,694,120.
- Bridge, John. System and apparatus for holding freight containers of vehicles and the like. 3,653,521, 4-4-72, Cl. 214-38.
- Bridge, John A.: See—
Speech, Steven R.; Opie, Joseph W.; and Bridge, John A., 3,647,472.
- Bridgeford, Douglas J.: See—
Burke, Noel I.; Bridgeford, Douglas J.; and Turbak, Albin F., 3,666,738.
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- Bridgeford, Douglas J., to Tee-Pak, Inc. Gas release from cellulose casing by multiple perforations. 3,669,791, 6-13-72, Cl. 156-244.000.
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- Bridger, Robert F., to Mobil Oil Corporation. Process for preparing carbon-carbon coupled dimers of N-arylnaphthylamines. 3,665,038, 5-23-72, Cl. 260-576.000.
- Bridger, William: See—
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- Bridges, Charles D.: See—
Hull, John L.; and Bridges, Charles D., 3,684,016.
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Riley, Ray Joe, 3,700,459.
- Bridges, John A., to Aladdin Industries, Incorporated. Stacked insulated cups. 3,684,123, 8-15-72, Cl. 220-9.00r.
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- Bridges, Thomas James; Kaminow, Ivan Paul; and Pollack, Martin Alan, to Bell Telephone Laboratories, Incorporated. Optical modulation by submillimeter-wave signals and applications thereof. 3,644,846, 2-22-72, Cl. 332-7.51.
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Rauch, Gerald B.; and Bridges, Wade, 3,656,631.
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Onishi, Akira; Anzai, Shiro; and Ishii, Motoki, 3,639,520.
- Bridgestone Liquefied Gas Company Ltd.: See—
Yamamoto, Katsuro; and Nakagawa, Shinji, 3,666,132.
- Yamamoto, Katsuro; Obata, Kuniyoshi; and Nakagawa, Shinji, 3,688,938.
- Yamamoto, Katsuro; Obata, Kuniyoshi; and Sato, Toru, 3,694,986.
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Furukawa, Junji; Saegusa, Takeo; Onishi, Akira; Ishikawa, Takao; Anzai, Shiro; Irako, Koichi; Narumiya, Tsuneaki; and Ishizuka, Yuzo, 3,649,607.
- Honda, Toshio; Kubota, Eishi; Fukuura, Yukio; and Kobayashi, Yoneji, 3,705,868.
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- Maruyama, Hideyo, 3,664,490.
- Mukai, Tsuneo; and Tezuka, Toshiro, 3,643,723.
- Ninomiya, Kaneshige, 3,689,341.
- Ogata, Nobuo, 3,699,204.
- Onishi, Akira; Anzai, Shiro; Irako, Koichi; Fujio, Ryota; Hayakawa, Yoshihiro; Kojima, Minoru; and Kawamoto, Hiroshi, 3,644,314.
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- Watanabe, Shigeo; Sogi, Toshiyuki; and Mukai, Tsuneo, 3,678,982.
- Watanabe, Tetsuo; Oikawa, Akira; and Masayoshi, Kuroda, 3,696,854.
- Yoshimoto, Toshio; Kaneko, Seiya; Sasaki, Takashi; Narumiya, Tsuneaki; Yoshii, Hiroshi; and Takamatsu, Tetsuya, 3,652,517.
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- Bridwell, John Dewey; and Wadsworth, Donald van Zelm, to Bell Telephone Laboratories, Incorporated. Rapid polling method for digital communications network. 3,652,993, 3-28-72, Cl. 340-147.
- Brieger, Emmet F., to Schlumberger Technology Corporation. Methods and apparatus for inhibiting the entrance of loose formation materials into a well bore. 3,633,674, 1-11-72, Cl. 166-315.
- Brieger, Emmet F., to Schlumberger Technology Corporation. Well perforating apparatus. 3,659,658, 5-2-72, Cl. 175-4.6.
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- Brieko, Meindert Willem. Method of making a heating body. 3,665,598, 5-30-72, Cl. 29-611.
- Brien, Andre. Watch display case. 3,670,437, 6-20-72, Cl. 40-126.00b.
- Brien, Andre N. Wrist watch with dial illuminating device. 3,681,587, 8-1-72, Cl. 240-2.100.
- Brienza, Michael J., to United Aircraft Corporation. Laser-acoustic processor for accomplishing time reversal of an electric signal. 3,644,742, 2-22-72, Cl. 250-216.
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O'Connor, Lawrence T.; Brierley, James A.; and Bhappu, Roshan B., 3,679,397.
- Brieske, Bernard F. Inflatable plastic structures. 3,664,058, 5-23-72, Cl. 46-90.
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- Brigg, Alan Henry: See—
Wilson, Eric John; Brigg, Alan Henry; and Timmons, Eric, 3,705,555.
- Briggin, Edward: See—
Katzman, Lawrence; and Briggin, Edward, 3,687,424.
- Katzman, Lawrence; and Briggin, Edward, 3,705,415.
- Briggs & Stratton Corporation: See—
Gordon, Douglas, 3,650,354.
- Harkness, Joseph R., 3,671,851.
- Tharman, Paul A., 3,678,366.
- Briggs, Alan Henry: See—
Wilson, Eric J.; and Briggs, Alan Henry, 3,680,490.
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- Briggs, Barry D., to Collins Radio Company. Signal controlled wide range relaxation oscillator apparatus. 3,693,112, 9-19-72, Cl. 331-111.000.
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- Briggs, Eugene C., to Koehring Company. Portable heater. 3,706,446, 12-19-72, Cl. 263-19.00a.
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- Briggs, John A.; and Ward, Ronald C., to Telemation, Inc. Automatic reference level set for television cameras. 3,670,100, 6-13-72, Cl. 178-7.100.
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Jones, Sheldon; and Briggs, Raymond W., 3,644,043.
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- Briggs, Robert F., to United States of America, Navy. Missile rack adapter. 3,659,892, 5-2-72, Cl. 296-3.
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- Bright, Charles R. Glass lens edging apparatus. 3,672,855, 6-27-72, Cl. 51-101.01g.
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- Bright, John Harvey, to American Cyanamid Company. Nickel amide complexes of bis phenol sulfides. 3,636,022, 1-18-72, Cl. 260-439.
- Bright, Joseph P. Furniture construction. 3,643,529, 2-22-72, Cl. 16-96.
- Bright, Royal E.: See—
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- Bright, William L. Tension brake assembly for stringing conductors. 3,703,980, 11-28-72, Cl. 226-90.000.
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- Brighton, Jack Edward, to B&B Pipul, Inc. Pipe joining machine. 3,639,967, 2-8-72, Cl. 29-237.
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Venturelli, Fred W.; and Brigman, Foy L., 3,667,475.
- Brigmanis, Edmund: See—
Chinai, Suresh N.; and Brigmanis, Edmund, 3,657,408.
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- Briles, Franklin S. Self-gauging, interference fit rivet. 3,680,429, 8-1-72, Cl. 85-37.000.
- Briles, Franklin S. Re-usable, spin-stopping fastener. 3,682,508, 8-8-72, Cl. 287-189.36f.
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Mead, Daniel R., 3,654,792.
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- Brill, Frank D.: See—
Schwertfeger, Owen J.; and Brill, Frank D., 3,672,479.
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Duquette, Noel Charles, 3,650,764.
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Hoyt, Charles T.; Haun, John W.; Hensel, Dwight L.; Hansen, Clarence M.; Lovely, Walter G.; and Bruhn, Hjalmar D., 3,671,077.
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- Brimer, Joe W. Von. Combustion product processing device and method. 3,695,192, 10-3-72, Cl. 110-8.00a.
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Groom, Robert G.; and Brimm, Collen K., 3,696,351.
- Brimmer, Donald B.; Brown, James Stuart; and Becker, Charles H., to De Laval Turbine, Inc. Filter precoating method. 3,674,686, 7-4-72, Cl. 210-37.000.
- Brin Manufacturing Co., Inc.: See—
Brantingson, Sigurd, 3,691,324.
- Brinckman, Eric Maria: See—
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- Vrancken, Marcel Nicolas; Brinckman, Eric Maria; and Heugebaert, Frans Clement, 3,674,483.
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- Brindell, Gordon D.; and Dannals, Leland E., to Uniroyal, Inc. Antistatic carpet composition containing alkali metal carboxylate and polyhydric alcohol. 3,658,744, 4-25-72, Cl. 260-29.7.
- Brindisi, Frank A., Jr.; Nagy, Joseph S.; and Yarkosky, Eugene F., to Enthone, Incorporated. Selectively stripping tin and/or lead from copper substrates. 3,677,949, 7-18-72, Cl. 252-79.400.
- Brindley, Giles Skey; and Donaldson, Peter Eden Kirwan, to National Research Development Corporation. Striate cortex stimulator. 3,699,970, 10-24-72, Cl. 128-419.00r.
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- Brindley, Robert Edwin, to Union Carbide Corporation. Multiple cell galvanic battery. 3,650,841, 3-21-72, Cl. 136-132.
- Brinen, Jacob Solomon: See—
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- Briner, William W.: See—
Widder, James S.; and Briner, William W., 3,678,154.
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- Bringolf, Richard G. Flexible conduit. 3,706,326, 12-19-72, Cl. 138-129.000.
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- Brink, Delbert L. Knockdown foamed plastic shipping container. 3,675,808, 7-11-72, Cl. 220-7.000.
- Brink, Edwin H., to FMC Corporation. Apparatus for precision planting. 3,636,897, 1-25-72, Cl. 111-77.
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Christensen, Alton O.; and Brink, Robert E., 3,657,574.
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Shema, Bernard F.; Brink, Robert H., Jr.; and Swered, Paul, 3,639,293.
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- Brink, Rodney O.: See—
Bennett, William C.; Condon, David C.; and Brink, Rodney O., 3,688,286.
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Fassler, Michael H.; and Brinker, Norman E., 3,701,379.
- Brinkerhoff, Donald E.: See—
Lee, Thomas H.; and Brinkerhoff, Donald E., 3,668,323.
- Brinkhoff, Carl H.: See—
Davison, Ellison L.; Brinkhoff, Carl H.; and Menold, Robert F., 3,667,834.
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Johnson, Meder, 3,633,335.

- Brinkley, Max D.; and Griffiths, Robert I., to Goodyear Tire & Rubber Company, The. Adjustable diameter band building drum. 3,654,026, 4-4-72, Cl. 156-418.
- Brinkley, Max D.; and Kerr, Glenn D., to Goodyear Tire & Rubber Company, The. Apparatus for wrapping a flexible endless band into a coil. 3,694,998, 10-3-72, Cl. 53-116.000.
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Cunningham, Cecil R.; Beach, William R.; and Brinkley, Ray D., 3,693,338.
- Brinkley, William J., III. Container and drinking tube. 3,656,654, 4-18-72, Cl. 220-90.2.
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Morsing, Gijbertus B.; and Brinkman, Theqnis, 3,633,190.
- Brinkman, Dale C., to Caterpillar Tractor Company. Torsional vibration damper having independent weights. 3,653,278, 4-4-72, Cl. 74-574.
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- Brinkman, George H., Jr., to Monsanto Company. Process for pigmenting linear saturated polyesters. 3,668,169, 6-6-72, Cl. 260-31.8x.
- Brinkman, Hendrik Willem; and van der Heyden, Arnoldus, to Lever Brothers Company. Thia-alkanethiols as meat flavors. 3,653,920, 4-4-72, Cl. 99-140.
- Brinkman, Joel J.: *See*—
Dunseth, Maria G.; and Brinkman, Joel J., 3,634,231.
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Naydan, Bob N.; and Brinkman, John D., 3,646,545.
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Knechtel, Wilhelm; Brinkmann, Kurt; and Mohr, Heinrich, 3,643,311.
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Frohlich, Helmut; and Brinkmann, Ludwig, 3,663,653.
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- Brinkmann, Martin, Aktiengesellschaft: *See*—
Brunhorn, Konrad; and Groschel, Heinz, 3,707,153.
- Brinkmann, Willi: *See*—
Hanning, Robert; Meise, Kurt; Brinkmann, Willi; and Laufer, Wilfried, 3,657,838.
- Brinkmeier, Friedhelm: *See*—
Wesselmann, Heinz; and Brinkmeier, Friedhelm, 3,660,204.
- Brinkmeier, Friedhelm; and Rocker, Hermann, to Windmoller & Holscher. Apparatus for compressing and packaging a stack of flattened bags or the like. 3,650,087, 3-21-72, Cl. 53-124.
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- Brint, Norman Trevor, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Loading mechanisms for guns. 3,690,216, 9-12-72, Cl. 89-33.00a.
- Brintley, Eugene L., Sr. Stacking machines. 3,662,901, 5-16-72, Cl. 214-6.
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- Briody, Thomas F., to Western Electric Company, Incorporated. Vapor deposition apparatus. 3,659,552, 5-2-72, Cl. 118-49.5.
- Briody, Thomas F., to Western Electric Company, Incorporated. Methods and apparatus for heating and/or coating articles. 3,699,298, 10-17-72, Cl. 219-10.490.
- Brion, Kenneth J.: *See*—
Cramp, Allen R.; and Brion, Kenneth J., 3,672,207.
- Briones, Robert A., to TRW Inc. Light intensity calorimeter. 3,670,570, 6-20-72, Cl. 73-190.00r.
- Brisard, Gerard, to Etablissement Muller & Cie. Vehicle suspension testing apparatus. 3,690,145, 9-12-72, Cl. 73-11.000.
- Briscoe, James A.: *See*—
Zeffler, Arthur A.; and Briscoe, James A., 3,701,500.
- Briscoe, Josiah Alfred, to Imperial Chemical Industries Limited. Method and apparatus for spreading and counting filaments in a yarn. 3,669,552, 6-13-72, Cl. 356-199.
- Briscoe, William L.: *See*—
Phillips, James A.; Schofield, Aldred E.; and Briscoe, William L., 3,667,059.
- Brisker, Henry C.: *See*—
Soullant, Herman A., Jr.; and Brisker, Henry C., 3,636,437.
- Briskin, Theodore; and Ward, Geoffrey R., to Sutton Research Corporation. Cigarette paper and method for preparation. 3,640,285, 2-8-72, Cl. 131-2.
- Briskin, Theodore S.; and Remanick, Allen H., to Sutton Research Corporation. Method of making a smokable product from oxidized cellulose. 3,643,667, 2-22-72, Cl. 131-2.
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- Brissey, Charles David; and Trotter, Marvin Nathaniel, to Stevens, J. P., & Co., Inc. Quill or bobbin spinning and winding frame with semi-automatic doffing and donning. 3,678,672, 7-25-72, Cl. 57-52.000.
- Brissey, George E.: *See*—
Butterfield, John L.; and Brissey, George E., 3,637,049.
- Brisson, David W. Board game apparatus. 3,695,614, 10-3-72, Cl. 273-130.0ac.
- Brisson, Jean Jacques Lucien Emile, to U.S. Philips Corporation. Method of producing calcium carbonate single crystals. 3,663,180, 5-16-72, Cl. 23-301.
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- Bristol, Thomas R.; Lakin, Harold; and Renga, Fred L., to Kleer-Vu Industries, Inc. Collating and collecting apparatus. 3,674,142, 7-4-72, Cl. 209-74.000.
- Bristol-Myers Company: *See*—
Belleau, Bernard R.; and Kavadias, Gerry, 3,691,231.
- Buchanan, Ronald Leslie, 3,634,444.
- Cheney, Lee C.; Godfrey, John C.; Crast, Leonard B., Jr.; and Luttinger, Joyce R., 3,652,546.
- Crast, Leonard Bruce, Jr., 3,646,025.
- Crast, Leonard Bruce, Jr., 3,647,789.
- Crast, Leonard Bruce, Jr., 3,687,948.
- Crenshaw, Ronnie R., 3,678,076.
- Dimittroff, Dimitar V., 3,640,659.
- Essery, John Michael; and West, Janet Ruth, 3,654,265.
- Essery, John Michael, 3,679,663.
- Granatek, Alphonse Peter; Granatek, Edmund Stanley; and Ratto, Peter Angelo, 3,655,883.

- Granatek, Edmund Stanley; and Granatek, Alphonse Peter, 3,689,530.
- Harman, Arlington Raymond, Jr.; and Granater, Alphonse Peter, 3,688,945.
- Holava, Henry Michael; and Partyka, Richard Anthony, 3,663,608.
- Holava, Henry Michael; and Partyke, Richard Anthony, 3,666,752.
- Holdrege, Charles Truman, 3,634,405.
- Holdrege, Charles Truman, 3,646,024.
- Holdrege, Charles Truman, 3,669,958.
- Holdrege, Charles Truman, 3,687,949.
- Holdrege, Charles Truman, 3,692,779.
- Jensen, Erik Kjaer, 3,696,819.
- Jensen, Jorgen Bent; Jensen, Borge; Krohn, Rasmus; and Keldmann, Erik, 3,700,853.
- Johansen, Bent Georg, 3,706,315.
- Juby, Peter Frederick; Hudyma, Thomas William; and Partyka, Richard Anthony, 3,644,479.
- Juby, Peter Frederick; Hudyma, Thomas William; and Partyka, Richard Anthony, 3,663,627.
- Judy, Peter Frederick; Hudyma, Thomas William; and Partyka, Richard Anthony, 3,696,111.
- Kaser, Walter Edwin; Kaplan, Murray Arthur; and Granatek, Alphonse Peter, 3,634,586.
- Keil, John G.; and Schreiber, Richard H., 3,652,535.
- Montzka, Thomas Alfred; and Matiskella, John Daniel, 3,654,281.
- Nettleton, Donald E., Jr.; Bush, James A.; and Bradner, William T., 3,663,691.
- Partyka, Richard Anthony; Standridge, Robert Ted; and Hall, Barbara Ann, 3,637,712.
- Pedersen, Arne Bybjerg, 3,665,938.
- Perron, Yvon G.; and Douglas, James L., 3,696,145.
- Sapino, Chester, Jr.; and Sleezer, Paul David, 3,644,377.
- Schmitz, Henry, 3,647,779.
- Willner, David, 3,634,418.
- Yablonsky, Harvey A., 3,686,296.
- Bristow, Joseph J.: *See*—
Goodman, Johnny, 3,646,513.
- Bristow, Norman William: *See*—
Adams, Stewart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, 3,644,420.
- Adams, Stewart Sanders; Armitage, Bernard John; Heathcote, Bernard Vincent; and Bristow, Norman William, 3,681,373.
- Adams, Stewart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, 3,686,218.
- Bristow, Robert H., to General Electric Company. Ceramic-to-metal seal. 3,700,420, 10-24-72, Cl. 29-195.000.
- Britax (London) Limited: *See*—
Burleigh, David William, 3,673,645.
- British & Foreign Tobacco Co., Ltd., The: *See*—
Solomon, Arie; and Davidovitch, Jecheskel, 3,633,938.
- British Aircraft Corporation Limited: *See*—
Allwright, Eric Sydney; and Godwin, Roy Charles, 3,647,169.
- Collins, Roy T.J., 3,633,853.
- Coonan, Paul Valentine, 3,653,251.
- Medhurst, Cyril W., 3,651,780.
- Morris, Peter Duncan; and Trayner, Brian T., 3,688,638.
- Perrett, Brian Raymond, 3,648,042.
- Rhodes, Arthur Neville; and Blackburn, Denis Edward, 3,669,367.
- Rudd, Michael J., 3,680,961.
- Stephen William Tonkin, 3,685,770.
- Walley, Gerald D., 3,672,606.
- Woodcock, Terence Keith, 3,648,180.
- British American Oil Company Limited, The: *See*—
Pogorski, Louis A., 3,698,588.
- British Cast Iron Research Association: *See*—
Goddard, Ronald G., 3,662,812.
- Leyshon, Humphrey James, 3,702,182.
- British Cellophane Limited: *See*—
Phillips, Cyril Howard; Brunton, James Charles; and Pearce, Geoffrey Downing, 3,676,185.
- British Columbia Research Council: *See*—
Clark, Trevor P.; and Trussell, Paul C., 3,639,653.
- British Domestic Appliances Limited: *See*—
Eastall, Martin Harold, 3,640,098.
- Nethersell, Barry Herbert, 3,691,645.
- Nethersell, Barry Herbert, 3,696,903.
- British Drug Houses Limited, The: *See*—
Feather, Peter; and Bruggess, Colin Michael, 3,691,212.
- British Hovercraft Corporation Limited: *See*—
Love, Norman Edward, 3,662,853.
- Riddle, Lavis Albert Henry; and Craig, Thomas, 3,672,461.
- Winter, Anthony, 3,643,758.
- Young, Michael A. B.; and Dunsmuir, George H., 3,648,799.
- British Industrial Sand Limited: *See*—
Segrove, Herbert Daymond, 3,634,032.
- Smith, Albert Richard, 3,660,123.
- British Insulated Callender's Cables Limited: *See*—
Anderson, John Kenneth, 3,668,128.
- Bearpark, John Patrick; Pigott, Stanley Wilton; and Llewellyn, Rees Jenkin, 3,631,586.
- Bonikowski, Zbigniew; and Keen, Bruce Henry, 3,694,711.
- Boult, David Luard, 3,706,838.
- Cleaver, John Stephen; Guilford, Peter; Kimpton, Frederick James; Page, Thomas John; and Steinberg, Norman Richard, 3,667,119.
- Cleaver, John Stephen; Guilford, Peter; Kimpton, Frederick James; Page, Thomas John; and Steinberg, Norman Richard, 3,688,397.
- Endacott, John Derrick; and Papadopoulos, Michael Savvas, 3,649,739.
- Harvey, Peter; Greene, David James; and Kaczmarek, Edward Zbigniew, 3,689,002.
- Lawrenson, Thomas, 3,678,177.
- Lawrenson, Thomas, 3,700,786.
- Nicholson, Peter, 3,689,610.
- Swampillai, Christy Edward Selvanayagam; Savage, Eric John; and Lawton, John Edward, 3,636,233.
- Wills, Graham Boyce; and Walker, Frank Stanley, 3,701,683.
- British Iron and Steel Research Association, The: *See*—
Lubanska, Hope, 3,663,206.
- British Iron and Steel Research Association, The: *See*—
Davies, Gordon Idris; Killay, Swansea; and Williams, Terence, 3,678,888.
- Davies, Idwal; and Harris, Alan G., 3,653,884.
- Davies, Idwal; Canning, Thomas Arthur; and Harris, Alan G., 3,658,517.
- Hyde, Eric Ambrose, 3,664,702.
- Laws, William Robert, 3,642,261.
- Reed, Geoffrey R., 3,698,152.
- Reed, Geoffrey Ronald, 3,670,877.
- Rhydderch, Malvern John, 3,672,870.
- Salter, Frank Michael; and Dibley, John Edwin, 3,706,448.
- Skelton, Charles Roger; and Malkani, Dalip Tarachand, 3,650,135.
- Sturgeon, George; and Jackson, George, 3,674,389.
- Sturgeon, George M.; and Sykes, Geoffrey M. H., 3,632,244.
- Sturgeon, George Mc Hardy; and Sheffield, Jackson George, 3,674,390.
- Whetton, David Arthur, 3,663,205.
- Widdowson, Roy; and Speceley, Gene Donald, 3,672,432.
- British Leyland (Austin-Morris) Limited: *See*—
Swatman, Peter P., 3,667,741.
- British Leyland Motor Corporation Limited: *See*—
Weaving, John Harold, 3,703,164.
- British Lighting Industries Limited: *See*—
Hart, Derek James; and Davis, Robert, 3,639,709.
- Mc Lintic, William James, 3,665,179.
- British Needle Company Limited, The: *See*—
Saunders, Donald, 3,658,177.
- British Nylon Spinners Limited: *See*—
Evans, Vincent L.; and Dyer, Dennis A., 3,694,539.
- British Oxygen Company, Limited, The: *See*—
Bradley, John R., 3,657,546.
- Budgen, Leslie J., 3,707,339.
- Came, Michael; Smith, Kenneth Cecil; and Webber, David Arthur, 3,707,066.
- Doxey, Brian Cecil, 3,703,674.
- Forster, Robert H. B., 3,633,893.
- Narain, Chandramani, 3,656,339.
- Power, Basil Dixon, 3,686,474.
- Spielmann, Erich R., 3,707,407.
- British Oxygen Company Limited, The; t/a Edwards High Vacuum International: *See*—
Power, Basil Dixon; and Oswald, Roger D., 3,635,039.
- British Petroleum Company Limited, The: *See*—
Allum, Keith George; Metcalfe, Christopher John Leonard; and Thomasson, Daniel John, 3,642,658.
- Allum, Keith George; Hancock, Ronald David; and Robinson, Peter John, 3,652,678.
- Allum, Keith George; and Hancock, Ronald David, 3,658,884.
- Allum, Keith George; and Robinson, Peter John, 3,673,114.
- Bennett, Ian Cameron; and Du Chaffaut, Jean Amaudric, 3,701,713.
- Bennett, Robert Neil; Parker, Richard Nigel; and Burbidge, Bernard Whiting, 3,663,423.
- Bonavita, Jean Baptiste, 3,655,511.
- Borougs, Raymond Milton; and Redman, John Wilson, 3,670,888.
- Bremner, Alexander McColl; and Squire, John Mansel, 3,660,325.
- Brunnock, John Vincent; and Luke, Leonard Arthur, 3,654,145.
- Burbidge, Bernard Whiting; Keen, Ian Montgomery; and Pout, Christopher Ronald, 3,668,113.
- Byford, Derek Clark; and Silver, Howard Bernard, 3,697,427.
- Caruthers, John; Knight, Warren Nevin Norton; and Dodwell, Christopher Henry, 3,691,066.
- Coin, Rene Georges; Croo, Robert-Justin; and Meuret, Pierre Henri, 3,681,546.

- Corteel, Philippe, 3,645,845.
 Desty, Denis Henry; Bretherick, Leslie; and Webb, Michael Guthrie, 3,635,032.
 Desty, Denis Henry; Whyman, Barry Herbert Francis; and Thomas, John Lionel, 3,635,293.
 Desty, Denis Henry, 3,635,651.
 Desty, Denis Henry; and Whyman, Barry Herbert Francis, 3,674,409.
 Forbes, Alan David; and Hunter, Neville John, 3,640,893.
 Forbes, Alan David, 3,642,844.
 Forbes, Eric Simon; and Allum, Keith George, 3,637,500.
 Forbes, Eric Simon; and Forbes, Alan David, 3,658,702.
 Gammon, Geoffrey James, 3,663,482.
 Goldup, Alan; Westaway, Michael Thomas; and Walker, Geoffrey, 3,645,891.
 Gould, Patrick; Row, John Henry Alexander; and Rudston, Stanley George, 3,660,467.
 Grebell, John; Hejlula, Kuldar; and Martin, David Eric, 3,632,663.
 Groszek, Aleksander Jerzy, 3,647,689.
 Groszek, Aleksander Jerzy; and Witheridge, Rodney Ernest, 3,666,689.
 Hambling, James Keith; and Woodhead, David Allison, 3,635,921.
 Harding, Albert Frederick; Pearce, Brian; and Thomas, William Llewelyn, 3,693,455.
 Hondermarck, Jean Claude; Bennett, Ian Cameron; and Guillo, Jacques, 3,705,082.
 Jentsch, Christian Robert, 3,654,345.
 Johnson, Peter; and Lawrenson, Malcolm John, 3,660,493.
 Jones, John Robert; and Hambling, James Keith, 3,637,896.
 Jones, John Robert; and Symes, Thomas J., 3,644,562.
 Lawrenson, Malcolm J., 3,646,079.
 McGrath, Brian Patrick; and Williams, Keith Vaughan, 3,637,890.
 McGrath, Brian Patrick; and Bradshaw, Christopher Patrick Cadman, 3,637,891.
 McGrath, Brian Patrick; and Bradshaw, Christopher Patrick Cadman, 3,637,892.
 Morgan, Alan George, 3,648,894.
 O'Hara, Joan Irene; and Bradshaw, Christopher Patrick Cadman, 3,671,462.
 Turner, Leonard; Howman, Eric James; and Bradshaw, Christopher Patrick Cadman, 3,641,189.
 British Petroleum Company Limited, The, *mesne: See—*
 Grant, Ian James, 3,662,792.
 British Railways Board: *See—*
 Barlow, Harold Montague, 3,668,574.
 Bing, Alan John, 3,631,810.
 Birkin, Michael Sambrook, 3,700,886.
 Cosgrove, John Travers; and Drake, Ronald, 3,684,114.
 Hobbs, Anthony Edward Walter, 3,690,271.
 Johnson, Philip Charles; and Theumer, Christoph Rudolf Emil Johann, 3,683,680.
 Newman, Michael; and Boocock, David, 3,687,085.
 Newman, Michael; and Boocock, David, 3,696,757.
 Ogilvy, Harry Heggie; and Smith, Clive Valentine, 3,636,508.
 Ogilvy, Harry Heggie; Tuck, Elizabeth Margaret; Dobbs, David John Miller; and Rosser, John Anthony, 3,685,454.
 Paterson, Archibald, 3,687,366.
 Pocklington, Arthur Ronald; and Mahy, Geoffrey Richard, 3,682,102.
 Tustin, Arnold; and Sell, Richard Geoffrey, 3,641,285.
 Tustin, Arnold; and Sell, Richard Geoffrey, 3,644,688.
 British Resin Products Limited: *See—*
 Fry, David Philip, 3,642,683.
 Scotland, John Louis, 3,647,613.
 British Ropes Limited: *See—*
 Paddington, Arthur L., 3,695,635.
 British Scientific Instrument Research Association: *See—*
 West, Robert N.; Brook, Richard A.; Shaw, Richard G.; Lobb, Daniel R.; and Allnutt, Anthony J., 3,676,008.
 British Steel Corporation: *See—*
 Grenfell, Hugh Willmott, 3,661,560.
 Mc Leman, Alexander D., 3,665,202.
 Pennington, John Stanley, 3,706,331.
 Smith, Henry, 3,698,757.
 Wilson, Eric J.; and Briggs, Alan Henry, 3,680,490.
 British Steel Corporation, *mesne: See—*
 Robinson, Robert W., 3,655,989.
 British Steel Piling Company Limited, The: *See—*
 Elliott, Roger M., 3,669,198.
 Last, Anthony Edward Walter, 3,635,292.
 Virgo, James Russell, 3,674,098.
 British Titan Limited: *See—*
 Herriman, John Dennis; and Hare, Alan Lawrence, 3,657,107.
 British Titan Products Company Limited: *See—*
 Brook, David Whiteley; and Ward, Raymond, 3,679,721.
 Brook, David Whiteley; and Ward, Raymond, 3,694,475.
 Edgar, Owen Burchell; Hughes, William; Lawrance, Derek Robert; Lederer, Gerald; and Ritchie, Colin Foster, 3,679,624.
 Williams, Frank Ronald; Whitehead, Jack; Marshall, Jefferson; Conners, Alan; and Gosden, Derek Vernon, 3,649,243.
 Williams, Frank Ronald; Whitehead, Jack; Marshall, Jefferson; Conners, Alan; and Gosden, Derek Vernon, 3,677,740.
 British United Shoe Machinery Company Limited, The: *See—*
 Spanton, Robert George; Wakefield, Gordon Cecil John; Quarby, Robert Charles; and Clarke, Terence James Leonard, 3,662,923.
 British Visqueen Limited: *See—*
 Highfield, Peter Edward; and Hill, Gordon John, 3,695,969.
 British-American Tobacco Company Limited, *mesne: See—*
 Horswell, Henry George; and Tolman, Thomas William Charles, 3,635,226.
 Britt, A. D.; and Moniz, William B., to United States of America, Navy. Preparation of silicon-fluoride silicates, 3,664,985, 5-23-72, Cl. 260-46.50r.
 Britt, Jack; and Honey, Alfred John, to Rolls-Royce Limited. Axial flow compressor, 3,640,638, 2-8-72, Cl. 415-172.
 Britt, Jack, to Rolls-Royce Limited. Rotary bladed structure for a fluid flow machine, 3,706,509, 12-19-72, Cl. 415-131.000.
 Britt, James E.: *See—*
 Bickel, John E.; Freres, Clemens H.; Gossard, Earl E.; Britt, James E.; Ortwein, Norman R.; and Swanson, Eric R., 3,680,115.
 Lyles, James M.; Hewitt, Robert E.; Hilt, Glenn L.; and Britt, James E., 3,638,610.
 Britt, James E.; and Hewitt, Robert E., to Xerox Corporation. Development electrode, 3,670,700, 6-20-72, Cl. 118-636.000.
 Britt, James L.; and Hewitt, Robert E., to Xerox Corporation. Conveyor assembly, 3,687,270, 8-29-72, Cl. 198-140.000.
 Britt, Tomas M., to Owens-Illinois, Inc. Tray package for tubes, 3,707,227, 12-26-72, Cl. 206-65.00r.
 Brittingham, Charles J. Oil collection device, 3,664,505, 5-23-72, Cl. 210-242.000.
 Britton, Arthur Wray; Luckey, George Wilson; William, Glenn; and Snyder, John Douglas, to Du Pont de Nemours, E. I., and Company. Ethylene copolymer blend for liquid packaging film, 3,682,767, 8-8-72, Cl. 161-227.000.
 Britton, G. B., & Sons Limited: *See—*
 Christie, Gerald Anthony; and Doble, Brian Reginald, 3,677,678.
 Christie, Gerald Anthony; Doble, Brian Reginald; and Bromfield, Alec Roy, 3,677,679.
 Britton, John; and Daniell, Bernard Lawrence, to Spring Research Association, The. Treatment of alloys, 3,658,601, 4-25-72, Cl. 148-12.7.
 Britton, Leon R.; and Semerjian, Joseph K., to Seeburg Corporation of Delaware, The. Multiple switch assembly for vending machine selecting apparatus with improved master switch control, 3,706,863, 12-19-72, Cl. 200-5.00r.
 Britton, Ralph H., Jr., to Hufnagel, Fred M. Pulse drive circuit for coils of dental impact tools and the like, 3,673,475, 6-27-72, Cl. 318-122.000.
 Britton, Richard B.: *See—*
 Sampson, William B.; and Britton, Richard B., 3,638,154.
 Britton, Robert A., to Esso Research and Engineering Company. Direct hydration of ethylene to ethanol, 3,686,334, 8-22-72, Cl. 260-641.000.
 Britvin, Lev Nikolaevich; Sergeev, Vitaly Andreevich; Spassky, Konstantin Semenovich; Smirnov, Igor Nikolaevich; Scheglov, Genady Mikhailovich; Shtelmakh, Alexandr Alexandrovich; Prudovsky, Boris Moiseevich; Karakhanian, Vladimir Karpovich; Ivanov, Viktor Vasilievich; and Semenov, Mikhail Ivanovich. Control device for metering pumps, 3,659,969, 5-2-72, Cl. 417-440.
 Brixius, Jacob K.; Takacs, Lawrence M.; and Van Sweringen, James P., to North American Rockwell Corporation. Filter, 3,698,161, 10-17-72, Cl. 55-493.000.
 Brizgys, Bernardas, to BASF Wyandotte Corporation. Dimine catalyzed reaction products having improved adhesive properties, 3,637,903, 1-25-72, Cl. 260-830.
 Brizgys, Bernardas, to BASF Wyandotte Corporation. Urethane coating compositions, 3,705,879, 12-12-72, Cl. 260-77.5ac.
 Brizzi, Anthony F.: *See—*
 Nolin, Roger J.; and Brizzi, Anthony F., 3,647,252.
 Roberts, Horace R.; and Brizzi, Anthony F., 3,635,571.
 Brizzolara, Donald F.; and Quarles, Richard W., Jr., to Du Pont de Nemours, E. I., and Company. Perfluoro (3-phenoxypropyl vinyl ether) monomer and copolymers made therefrom, 3,682,872, 8-8-72, Cl. 260-80.760.
 Brizzolara, Henry M., to Atlas Chemical Industries, Inc. Electropolytechnic link, 3,660,794, 5-2-72, Cl. 337-401.
 Brizzolesi, Gustavo, to Societa Applicazioni Gomma Antivibranti "SAGA" S.p.A. Flexible couplings, 3,668,891, 6-13-72, Cl. 64-12.
 Bro, Per: *See—*
 Dey, Arabinda Narayan; and Bro, Per, 3,681,144.
 Broach Systems, Inc.: *See—*
 Bowman, Paul F., 3,640,189.

- Broad, Michael John: *See—*
 Moss, Norman; and Broad, Michael John, 3,636,967.
 Broadbent, Arnold, to Parks-Cramer (Great Britain) Ltd. Pressure sensitive control apparatus, 3,663,829, 5-16-72, Cl. 307-118.
 Broadbent, Berne D., to Hughes Aircraft Company. Write station for a magnetic storage medium, 3,670,312, 6-13-72, Cl. 340-174.0sr.
 Broadbent, Douglas: *See—*
 Aldridge, David Cecil; Broadbent, Douglas; Hemming, Harold George; Turner, William Brian; and Bent, Keith Joseph, 3,661,935.
 Broadbent, Graham; and Mansfield, John Rickard, to Imperial Chemical Industries Limited. Sampling method and apparatus, 3,695,113, 10-3-72, Cl. 73-421.000.
 Broadbent, Kent D.: *See—*
 Johnson, Keith O.; and Broadbent, Kent D., 3,670,114.
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 Ellis, Brain, 3,636,468.
 Grimwood, Geoffrey L.; and Ferrier, Duncan C., 3,650,465.
 Broadbent, Thomas D.: *See—*
 Shipp, John I.; Welch, Nathan E.; and Broadbent, Thomas D., 3,643,101.
 Broadus, Charles D.: *See—*
 Erman, William F.; and Broadus, Charles D., 3,658,925.
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 Logan, Raymond, 3,660,954.
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 Asadorian, Arthur A.; and Broadworth, Max R., 3,682,805.
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 Howard, Joseph D.; and Brobeck, William M., 3,688,087.
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 Hahn, Rea I.; and Broberg, Robert W., 3,648,733.
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 Brocato, Samuel C. Dish tray, 3,670,938, 6-20-72, Cl. 224-48.00r.
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 Andres, Karlheinz; Brochhagen, Franz Karl; Wunderer, Anton; and Fulber, Josef, 3,645,927.
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 Brock, James, to Imperial Chemical Industries Limited. Pneumatic device for forwarding filamentary material, 3,698,612, 10-17-72, Cl. 226-91.000.
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 Mize, Erbie G.; and Brock, James D., 3,638,911.
 Brock, James Donald. Carpet dryer, 3,641,681, 2-15-72, Cl. 34-41.
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 Brock, Jerry A.: *See—*
 Lawton, Charles P.; Taylor, Kenneth O.; and Brock, Jerry A., 3,693,951.
 Brock, Jessie O.: *See—*
 Fitzgerald, Warren E.; Knudsen, John P.; and Brock, Jessie O., 3,671,619.
 Brock, John E.: *See—*
 Lee, Richard G.; Schleicher, Allen K.; Panzer, Max L.; and Brock, John E., 3,650,566.
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 Brock, Norbert: *See—*
 Arnold, Herbert; Brock, Norbert; Kuhas, Engelbert; Lenke, Dieter; and Pohle, Hans, 3,686,311.
 Brock, Robert J.; and Hansen, Paul B., to Kimberly-Clark Corporation. Orthotropic fiber-reinforced thermoplastic film and method of manufacture, 3,663,344, 5-16-72, Cl. 161-959.
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 Perry, Max W.; and Brockelsby, Norman D., 3,648,728.
 Perry, Max W.; and Brockelsby, Norman D., 3,664,556.
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 Brockett, Peter C.; and Pallat, Ludwig R., to LFE Corporation. Local controller for traffic control system, 3,641,486, 2-8-72, Cl. 340-41.
 Brockie, Thomas H., to Chrysler Corporation. Noise reduction apparatus, 3,676,012, 7-11-72, Cl. 415-119.000.
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 Brockman, John J.: *See—*
 Salhi, Jalal I.; Brockman, John J.; and Spix, George J., 3,688,171.
 Brockman, Robert A.: *See—*
 Johnson, Eric C.; Polk, William M.; and Brockman, Robert A., 3,681,722.
 Brockmann & Bundt Industrie-Ofenbau: *See—*
 Brockmann, Heinz, 3,664,649.
 Brockmann, Heinz, 3,666,086.
 Brockmann, Heinz, to Brockmann & Bundt Industrie-Ofenbau. Furnace having structure for feeding work through a heat tunnel, 3,664,649, 5-23-72, Cl. 263-6.
 Brockmann, Heinz, to Brockmann & Bundt Industrie-Ofenbau. Walking beam conveyor, 3,666,086, 5-30-72, Cl. 198-219.
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 Marboe, Evelyn C.; and Weyl, Woldemar A., 3,642,651.
 McMeekin, James H., 3,684,089.
 Turner, Leonard; and Williams, Keith Vaughan, 3,642,931.
 Brockway, Richard J.: *See—*
 Hayner, Paul F.; and Brockway, Richard J., 3,688,800.
 Brodbeck, John J., to Chevron Research Company. Equilibration of lower alkyl substituted polyalkyl aromatic hydrocarbons with reduced disproportionation, 3,647,898, 3-7-72, Cl. 260-668.
 Brode, George L.: *See—*
 Kwiatkowski, George T.; Brode, George L.; and Robeson, Lloyd M., 3,658,938.
 Brode, George L.; and Conte, Louis B., Jr., to Union Carbide Corporation. Vulcanizable silicon terminated polyurethane polymers, 3,632,557, 1-4-72, Cl. 260-77.5.
 Brode, George L., to Union Carbide Corporation. Vulcanized silicon terminated polymers, 3,678,010, 7-18-72, Cl. 260-75.00r.
 Brode, George Lewis: *See—*
 Van Auken, Thomas Vincent; and Brode, George Lewis, 3,632,654.

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- Brode, Von, Milling Co., Inc.: See—
Rauch, David, 3,693,808.
- Brode, W. M., Company, The: See—
MacKinnon, Alan G., 3,703,857.
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Corino, Edward R.; Broderick, Edward F.; and Canevari, Gerard P., 3,634,050.
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- Broderick, Frank W. Method of making mating male embossing rolls. 3,668,030, 6-6-72, Cl. 156-14.000.
- Broderick, John E., to Martin-Marietta Corporation. Apparatus for contouring a honeycomb core. 3,702,072, 11-7-72, Cl. 72-307.000.
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Murray, Margaret H.; and Brodhag, Earl E., 3,660,131.
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Korelitz, Theodore H.; and Brodie, Alvin C., 3,636,328.
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Patterson, Roger Lee; and Brodie, Bryan William, 3,680,742.
- Brodie, John Alfred, to Union Carbide Australia Limited. Solid-liquid continuous countercurrent purifier method and apparatus. 3,645,699, 2-29-72, Cl. 23-273.
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- Brodie, Nathan. Reversible intra-vas device. 3,648,683, 3-14-72, Cl. 128-1.
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Emmons, William D.; Moser, Vincent J.; Brodnyan, John G.; and Shachat, Norman, 3,705,053.
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- Brodway, Nicolas, to Du Pont de Nemours, E. I., and Company. Branched-chain hydrocarbon elastomers. 3,652,729, 3-28-72, Cl. 260-878.
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Gram, Hans, 3,662,565.
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Gram, Hans, 3,675,443.
- Brody, Bruce S.: See—
Brody, Irwin L.; and Brody, Bruce S., 3,664,705.
- Brody, Charles; and Brody, Rhoda Sharon. Dog toilet. 3,672,331, 6-27-72, Cl. 119-1.000.
- Brody, Herbert M., to American Standard, Inc. Refrigerant flow control employing plural valves. 3,640,086, 2-8-72, Cl. 62-210.
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- Brody, Norman M., to Norman Industries, Inc. Iridescent plastic article and method of production. 3,660,211, 5-2-72, Cl. 161-2.
- Brody, Norman M., to Norman Industries, Inc. Three-dimensional plastic colored article. 3,695,982, 10-3-72, Cl. 161-5.000.
- Brody, Rhoda Sharon: See—
Brody, Charles; and Brody, Rhoda Sharon, 3,672,331.
- Brody, Samuel S.: See—
Paljug, Joseph W.; and Brody, Samuel S., 3,652,934.
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- Brody, Thomas P., to Westinghouse Electric Corporation. Thin film optoelectronic semiconductor device using light coupling. 3,705,309, 12-5-72, Cl. 250-217.00s.
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Monti, Anthony; Troy, John P.; and Broeg, Charles B., 3,639,168.
- Broen Armatur I/S: See—
Katva, Ilmari, 3,653,407.
- Broeren, John E.: See—
Dining, James A.; Engel, John B.; and Broeren, John E., 3,700,181.
- Broering, Leo H.: See—
Watson, Lloyd M.; and Broering, Leo H., 3,649,606.
- Broering, Leo H.; and Birchall, William R., to National Distillers and Chemical Corporation. Continuous process for the production of alfin polymers. 3,706,720, 12-19-72, Cl. 260-82.100.
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Esdonk, Johannes Van; and Broers, Godefridus Henricus, 3,634,160.
- Broersma, Frank R.: See—
Elo, Arpad, Jr.; and Broersma, Frank R., 3,676,063.
- Brogan, Daniel J.: See—
Willsey, William B.; and Brogan, Daniel J., 3,637,508.
- Brogdex Company: See—
Bice, John R.; and Lewis, Philip J., 3,674,510.
- Russell, Kenneth F., 3,633,732.
- Broughton, Donald B.: See—
Berger, Charles V.; and Broughton, Donald B., 3,700,744.
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Bastian, Ingbert; and Brogli, Horst, 3,705,299.
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- Brojdo, Samuel, to Bell Telephone Laboratories, Incorporated. Semiconductor apparatus for image sensing and dynamic storage. 3,676,715, 7-11-72, Cl. 307-304.000.
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- Brokaw, George K. Chopping device. 3,650,485, 3-21-72, Cl. 241-245.
- Broken Hill Associated Smelters Proprietary Limited, The: See—
Cunningham, Brian Charles, 3,649,244.
- Brokke, Mervin E.: See—
Tilles, Harry; and Brokke, Mervin E., 3,704,236.
- Brokke, Mervin E.; Menn, Julius J.; and Dorman, Stephen C., to Stauffer Chemical Company. Isobutoxy-S-(4-chlorophenyl) ethylphosphonodithioate. 3,642,958, 2-15-72, Cl. 260-961.
- Brokke, Mervin E., to Stauffer Chemical Company. 2- and 4-(3,4,4-Trifluoro-3-butenyl-thio) pyridines. 3,654,293, 4-4-72, Cl. 260-294.8.
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- Brokow, Adrian P.: See—
Arciprete, Genio R.; Brokow, Adrian P.; Dumais, Richard L.; and Stucchi, Richard F., 3,662,362.
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- Bromell, Raymond J., to Automatic Drilling Machines Inc. Automatic coupling system. 3,662,842, 5-16-72, Cl. 173-1.
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Christie, Gerald Anthony; Doble, Brian Reginald; and Bromfield, Alec Roy, 3,677,679.
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Sach, Roger Stuart; and Bromley, John, 3,642,513.
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- Bromwich, Robert A. C.: See—
Hill, William G.; and Bromwich, Robert A. C., 3,688,076.
- Brondum, Hazel: See—
Bletcher, James H.; and Rauh, Jack K., 3,684,190.
- Brondy, Thomas L. Blood testing machine. 3,634,039, 1-11-72, Cl. 23-259.
- Brondyke, Kenneth J.; and Hess, Paul D., to Aluminum Company of America. Melting finely divided aluminum scrap. 3,649,247, 3-14-72, Cl. 75-68.
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Doll, Henri Georges; and Broner, Hans J., 3,659,591.
- Bronfin, Barry Robert; Burwell, Wayne Gregory; and Meinzer, Richard August, to United Aircraft Corporation. Chemical mixing laser. 3,701,045, 10-24-72, Cl. 331-94.500.
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DePalma, Ted V.; Brons, Albert J.; and Perga, Martin W., 3,685,972.
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- Bronson, Charles L., to Varel Manufacturing Company. Sealed bearing earth boring bit. 3,663,073, 5-16-72, Cl. 308-8.2.
- Bronson, George E., to N L Industries, Inc., mesne. Titanium dioxide pigment compositions of matter useful in printing ink compositions. 3,674,528, 7-4-72, Cl. 106-300.000.
- Bronson, Joseph. Car top carrier structure with locking means. 3,638,844, 2-1-72, Cl. 224-42.1.
- Bronstein, Benjamin. Pick-up load holder. 3,677,562, 7-18-72, Cl. 280-179.00a.
- Bronstein, Harry. Steering indicator. 3,673,561, 6-27-72, Cl. 340-52.00r.
- Bronstein, Harry. Circumcision clamp. 3,678,935, 7-25-72, Cl. 128-325.000.
- Bronstein, Leonard. Method and product of making multifocal contact lenses and lens blanks. 3,697,629, 10-10-72, Cl. 264-1.000.
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Heil, Eduard; Trieschmann, Hans-Georg; Willersinn, Herbert; Bolte, Herbert; and Bronstert, Klaus, 3,676,378.
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- Bronzini, Bruno, to Fratelli Morando & C. S.p.A. Article transfer mechanism. 3,645,408, 2-29-72, Cl. 214-1.
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West, Robert N.; Brook, Richard A.; Shaw, Richard G.; Lobb, Daniel R.; and Allnutt, Anthony J., 3,676,008.
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- Brookdeal Electronics Limited: See—
Faulkner, Eric Andrew, 3,673,506.
- Brooke, David W. I., to International Harvester Company of Great Britain Limited, mesne. Vehicle guidance systems. 3,669,205, 6-13-72, Cl. 180-98.000.
- Brooke, David William Ingham, to International Harvester Company of Great Britain Limited, mesne. Vehicle guidance systems. 3,669,208, 6-13-72, Cl. 180-98.000.
- Brooke, David William Ingham, to International Harvester Company of Great Britain Limited, mesne. Vehicle guidance systems. 3,669,209, 6-13-72, Cl. 180-98.000.
- Brooke, Edric Raymond, to English Numbering Machines Limited. Mounting arrangement for an elongated record carrier. 3,633,845, 1-11-72, Cl. 242-198.
- Brooke, Edric Raymond, to English Numbering Machines Limited. Shim adjustable pressure members for magnetic tape transducing devices. 3,641,283, 2-8-72, Cl. 179-100.2.
- Brooke, Thomas Andrew; and Robinson, Peter Michael, to Dunlop Rubber Company Limited. Manufacture of sheet material. 3,639,190, 2-1-72, Cl. 156-272.
- Brooker, Leslie G. S.: See—
Chapman, Derek D.; and Brooker, Leslie G. S., 3,649,266.
- Fumia, Arthur, Jr.; and Brooker, Leslie G. S., 3,655,392.
- Fumia, Arthur, Jr.; Heseltine, Donald W.; and Brooker, Leslie G. S., 3,671,648.
- Jenkins, Philip W.; and Brooker, Leslie G. S., 3,681,081.
- Oliver, Gene L.; and Brooker, Leslie G. S., 3,656,957.
- Van Lare, Earl J.; and Brooker, Leslie G. S., 3,678,045.
- Brooker, Leslie G. S.; and Van Lare, Earl J., to Eastman Kodak Company. Cyanine dyes containing an imidazo [4,5-b] quinoxaline nucleus. 3,632,808, 1-4-72, Cl. 260-240.4.
- Brooker, Leslie G. S.; Daniel, Daniel S.; and Taber, Robert C., to Eastman Kodak Company. Silver halide emulsions containing a dye derived from 4,6-diaryl substituted picolinium salts as desensitizer. 3,639,127, 2-1-72, Cl. 96-101.
- Brooker, Leslie G. S.; Fumia, Arthur, Jr.; and Heseltine, Donald W., to Eastman Kodak Company. Silver halide emulsions and elements comprising trimethine hemioxonal dyes. 3,652,289, 3-28-72, Cl. 96-139.
- Brooker, Leslie G. S.; and Fumia, Arthur, Jr., to Eastman Kodak Company. Silver halide emulsions sensitized with methine dyes containing a cyclopentanone nucleus. 3,672,906, 6-27-72, Cl. 96-142.000.
- Brooker, Leslie G. S.; and Van Lare, Earl J., to Eastman Kodak Company. Photographic emulsions containing new benzimidazole compounds as sensitizing dyes. 3,684,517, 8-15-72, Cl. 96-128.000.
- Brookes, Kenneth A., to Associated Electrical Industries Limited. Electron microscope with multi-focusing electron lens. 3,660,657, 5-2-72, Cl. 250-49.5.
- Brookes, Kenneth Joseph Alban, to International Nickel Company Inc., The. Calculating device. 3,685,727, 8-22-72, Cl. 235-70.00r.
- Brookfield Industries, Inc.: See—
Hatch, Edwin B.; and Schwengel, Steven, 3,651,880.
- Brookhyser, Byron B., to Weyerhaeuser Company. Thin sheet thrower. 3,674,256, 7-4-72, Cl. 271-63.000.
- Brookhyser, Byron B., to Weyerhaeuser Company. Automatic sheet stacker. 3,690,649, 9-12-72, Cl. 271-68.000.
- Brookhyser, Byron B., to Weyerhaeuser Company. Sheet positioner. 3,704,882, 12-5-72, Cl. 271-68.000.
- Brooking, Ivor Harold: See—
Chilman, John Alfred; and Brooking, Ivor Harold, 3,647,320.
- Brooking, Ivor Harold; and Chilman, John Alfred, to Dowty Rotol Limited. Bladed rotors. 3,663,119, 5-16-72, Cl. 416-157.
- Brookline Instrument Company: See—
Swersey, Burt L., 3,656,478.
- Brookman, Robert S.; Grib, Stephen; and Pearson, Dale S., to Firestone Tire and Rubber Company, The. Process for the preparation of pressure sensitive adhesives. 3,661,618, 5-9-72, Cl. 117-62.
- Brooks, Berry A.; and Eisendorfer, Norman R., to Johnson & Johnson. Absorbent sponges. 3,683,921, 8-15-72, Cl. 128-296.000.

- Brooks, Charles G.; and Peterson, Noel C., to Westinghouse Electric Corporation. Planar-type spiral antenna. 3,638,226, 1-25-72, Cl. 343-895.
- Brooks, David; and Reteff, Arthur L., to Serco Engineering Limited. Dockboards. 3,662,416, 5-16-72, Cl. 14-71.
- Brooks, David Hugh; Cox, John Michael; and Kay, Ian Trevor, to Imperial Chemical Industries Limited. Alpha cyanobenzyl xanthates having pesticidal properties. 3,646,094, 2-29-72, Cl. 260-455.
- Brooks, David N.: See—
Dayton, David R.; and Brooks, David N., 3,659,092.
- Brooks, David N., to Eastman Kodak Company, mesne. Photographic apparatus. 3,640,196, 2-8-72, Cl. 95-11.5.
- Brooks, David N.; Paulauskas, Clyde L.; and Edin, Ronald E., to Sylva Electric Products, Inc. Bunsen burner simulating flameless electric heater. 3,654,431, 4-4-72, Cl. 219-373.
- Brooks, Dean P.: See—
White, Allen A.; Garrison, Harold Keith; and Brooks, Dean P., 3,691,741.
- Brooks, Dean P., to Hesston Corporation. Conveyor-cleaner. 3,648,826, 3-14-72, Cl. 198-213.
- Brooks, Doyle K. Book mark and page holding device. 3,701,332, 10-31-72, Cl. 116-119.000.
- Brooks, E. J., Company: See—
Moberg, Sigurd M., 3,633,957.
- Brooks, Edward A.: See—
Duckett, John W.; Brooks, Edward A.; and Reynolds, Clarke, 3,705,566.
- Brooks, Elwin W.: See—
Berger, Richard M.; and Brooks, Elwin W., 3,637,447.
Berger, Richard M.; and Brooks, Elwin W., 3,648,711.
Berger, Richard M.; and Brooks, Elwin W., 3,703,429.
- Brooks, Frank W.; and Naismith, Thomas D., to General Motors Corporation. Disc brake with parking brake. 3,670,853, 6-20-72, Cl. 188-72.600.
- Brooks, Frank W.; and Gebhart, Norman L., to General Motors Corporation. Disc brake. 3,705,641, 12-12-72, Cl. 188-73.300.
- Brooks, Fred A. Baseband pulse code modulation system. 3,674,939, 7-4-72, Cl. 179-15.55.
- Brooks, Gene A., to Monsanto Company. Traffic machine for carpets. 3,641,807, 2-15-72, Cl. 73-7.
- Brooks, Geoffrey N.; and Crompton, John L. F., to Dunlop Company Limited. The Assemblies of tubular members. 3,702,199, 11-7-72, Cl. 285-55.000.
- Brooks, George D. S. Golf game apparatus. 3,684,293, 8-15-72, Cl. 273-176.00f.
- Brooks, Glen L.: See—
Williams, George L.; Brooks, Glen L.; and Eaton, Earl M., 3,658,201.
- Brooks, H Craig: See—
Glorioso, Robert M.; and Brooks, H Craig, 3,638,113.
- Brooks, Herbert B. Digital control simulator. 3,638,007, 1-25-72, Cl. 235-184.
- Brooks, Herman H., to Sundstrand Data Control, Inc. Demodulator for angularly related signals. 3,639,850, 2-1-72, Cl. 329-50.
- Brooks, Howard Larry, to Stauffer-Wacker Silicone Corporation. Silicone release emulsion. 3,634,285, 1-11-72, Cl. 252-312.
- Brooks, Howard Larry, to Stauffer-Wacker Silicone Corporation. Mold release compositions from mixtures of silicone resins and siloxane fluids. 3,684,756, 8-15-72, Cl. 260-29.1s1.
- Brooks, James; Drummond, Ralph E.; Heinz, Frank J.; and Chambers, William W., to Robertshaw Controls Company. Thermostat set. 3,671,762, 6-20-72, Cl. 307-117.000.
- Brooks, James N.; and Chambers, William W., to Robertshaw Controls Company. Temperature control apparatus having cooling operator separate from sensing bridge. 3,633,657, 1-11-72, Cl. 165-26.
- Brooks, James R.: See—
Harcourt, David N.; and Brooks, James R., 3,655,651.
- Brooks, Jeffrey N.: See—
Lee, Tsze K.; Brooks, Jeffrey N.; and Logan, Ralph, 3,633,205.
- Brooks, Joseph: See—
Jamaica, Julius Orban; and Brooks, Joseph, 3,681,237.
- Brooks, Joseph F.; and Schaefer, Harold W., to National Union Electric Corporation. Pulley construction. 3,682,010, 8-8-72, Cl. 74-230.010.
- Brooks, Kenneth: See—
Sistare, Vann M.; and Brooks, Kenneth, 3,642,217.
- Brooks, Kenneth, to Celanese Corporation. Traverse cam declutching device for yarn take-up apparatus. 3,680,800, 8-1-72, Cl. 242-43.000.
- Brooks, Kenneth A.; Johnson, Lawrence L.; and Mathewson, James A., to International Business Machines Corporation. Actuator for elastic diaphragm switch keyboard. 3,693,775, 9-26-72, Cl. 197-98.000.
- Brooks, Kenneth G. Dual compartment paper safe. 3,637,279, 1-25-72, Cl. 312-303.
- Brooks, Leslie John: See—
Poucher, Michael; Brooks, Leslie John; and Morris, Geoffrey William, 3,662,556.
- Brooks, Louis E.: See—
Kauer, George C., Jr.; and Brooks, Louis E., 3,659,399.
- Brooks, Marion E., to Bickerstaff Clay Products Company, Inc. Apparatus for handling aligned rows of objects. 3,647,093, 3-7-72, Cl. 214-8.5.
- Brooks, Martin Frederick; and Kerrigan, Vincent, to Imperial Chemical Industries Limited. Stable liquid diphenylmethane diisocyanates. 3,641,093, 2-8-72, Cl. 260-453.
- Brooks, Martin Frederick; and Kerrigan, Vincent, to Imperial Chemical Industries Limited. Preparation of liquid diphenylmethane diisocyanate compositions. 3,674,828, 7-4-72, Cl. 260-453.00p.
- Brooks, Maurice E.: See—
Riegel, Herbert; Schindler, Harvey D.; Sze, Morgan C.; and Brooks, Maurice E., 3,637,895.
- Brooks, Otis; and Moltz, Bernard S. Space saver drawing holder. 3,635,352, 1-18-72, Cl. 211-47.
- Brooks Products, Inc.: See—
Budlong, Oscar A., 3,660,956.
Robbins, James L., 3,671,156.
- Brooks, Ray G., to Product Promotions, Inc. Fish attracting device. 3,680,245, 8-1-72, Cl. 43-17.000.
- Brooks Research and Manufacturing Inc.: See—
Wickersham, Price D., 3,654,585.
- Brooks, Robert E.; Ewart, John M.; and Randall, James E., to Ranco Incorporated. Sensing means for air conditioning systems and the like. 3,631,687, 1-4-72, Cl. 62-227.
- Brooks, Robert E., to TRW Inc. Method of and apparatus for holographically contour mapping of distant objects. 3,633,987, 1-11-72, Cl. 350-3.5.
- Brooks, Robert E., to TRW Inc. Recording microholograms of magnified virtual images. 3,644,012, 2-22-72, Cl. 350-3.5.
- Brooks, Robert E., to TRW Inc. Holographic system without laser speckle. 3,659,914, 5-2-72, Cl. 350-3.500.
- Brooks, Robert E.; and Heflinger, Lee O., to TRW Inc. Optical system for identifying pulses. 3,668,405, 6-6-72, Cl. 250-216.000.
- Brooks, Robert E., to TRW Inc. Holographic real-time interferometry with a reconstructed reference beam. 3,672,776, 6-27-72, Cl. 356-106.000.
- Brooks, Robert E., to Ranco Incorporated. Temperature sensing device for room air tempering apparatus. 3,678,434, 7-18-72, Cl. 338-196.000.
- Brooks, Robert E., to TRW Inc. Holographic correlator with a folded path acoustic cell input. 3,694,657, 9-26-72, Cl. 250-216.000.
- Brooks, Robert Lee, to RCA Corporation. Method for monitoring the capacitance of a capacitor while adjusting its capacitance. 3,665,570, 5-30-72, Cl. 29-25.420.
- Brooks, Rodney A.: See—
Dammig, Alvin H., Jr.; Sherburne, Arthur E.; and Brooks, Rodney A., 3,639,835.
- Brooks, Rodney A.; and Orlando, Vincent A., to General Motors Corporation. Acceleration sensor. 3,678,763, 7-25-72, Cl. 73-514.000.
- Brooks, Sheldon C., to Tri-State Displays, Inc. Sectional display for samples of sheet material. 3,642,144, 2-15-72, Cl. 211-45.
- Brooks, Stanley: See—
Green, Joseph; and Brooks, Stanley, 3,654,366.
- Brooks, Stanley H. W.; and Raddin, Harry A., to Hoff, Miller, Inc. Fiberboard produced from wood particles having a 5-25% moisture content prior to steaming and mechanical reduction in the formation process. 3,668,286, 6-6-72, Cl. 264-26.000.
- Brooks, Warren B.; Dean, James T.; Manning, William F.; Rupp, Lewis A.; and Talley, William A., Jr., to Mobil Oil Corporation. Underwater production and storage system. 3,682,242, 8-8-72, Cl. 166-500.
- Brooks, Wilbur G. Golf club cleaner. 3,704,475, 12-5-72, Cl. 15-21.00c.
- Brooks, William R., to Insta-Foam Products, Inc. Foam dispenser. 3,633,795, 1-11-72, Cl. 222-134.
- Brooks, William Thomas. Non-voltage sensitive indicator light. 3,665,442, 5-23-72, Cl. 340-248.00r.
- Brooks-Smith, Derryk: See—
Charkey, Allen; and Brooks-Smith, Derryk, 3,652,338.
- Brookshire, Harry A.: See—
Bridenstine, Orville J.; Shutt, Melvin S.; and Brookshire, Harry A., 3,672,530.
- Broom and Wade Limited: See—
Hall, Raymond John; and Webb, Derek James, 3,635,605.
- Broom, Robert F., to Amforge, Inc. Method of molding electrodes. 3,650,736, 3-21-72, Cl. 75-200.
- Broom, Ronald Francis Johnston, to Institut für Angewandte Physik der Universität Bern. Method of modulating a laser beam and related apparatus. 3,663,897, 5-16-72, Cl. 332-7.51.
- Broome, Arthur William James: See—
Watchorn, Noel; and Broome, Arthur William James, 3,642,488.
- Broome, Barry Glenn: See—
Maure, Douglas Raymond; and Broome, Barry Glenn, 3,676,864.
- Broome, Joseph Wesley: See—

- Harwick, Warren J.; and Broome, Joseph Wesley, 3,650,216.
- Broome, Marshall B.; and Burress, William W., to Atlantic Richfield Company. Digital waveform generator with adjustable time shift and automatic phase control. 3,679,971, 7-25-72, Cl. 324-50b.
- Broomfield, Robert Walter: See—
Wilson, Martin Norman; Smith, Peter Faraday; Walters, Colin Russell; Lewin, John David; Broomfield, Robert Walter; and Graham, Robert Leslie, 3,662,093.
- Brooshoff, Thomas: See—
De Boer, Henri G. J.; Brooshoff, Thomas; and Wemmers, Anton, 3,704,129.
- Brophy, Jere Hall: See—
Hayden, Howard Wayne, Jr.; Gibson, Robert Cameron; and Brophy, Jere Hall, 3,689,325.
- Brorein, William J.; and Polizzano, Fred F. Method of making metallic sheathed cables with foam cellular polyolefin insulation and method of making. 3,693,250, 9-26-72, Cl. 29-624.000.
- Brorson, Donald L.; and Magnuson, Raymond A., to Beatrice Food Co. Mounting arrangement for pivotal space divider. 3,677,322, 7-18-72, Cl. 160-135.000.
- Brorson, Donald L.; and Magnuson, Raymond A., to Beatrice Foods Co. Molded plastic garment hanger. 3,679,100, 7-25-72, Cl. 223-88.000.
- Broser, Richard, to Accum-Matic Systems, Inc. Automatic accumulating work piece lift and carry transfer mechanism. 3,687,275, 8-29-72, Cl. 198-219.000.
- Brosilow, Jerry; and Levitt, Jack, to World Battery Corporation. Battery cover. 3,653,974, 4-4-72, Cl. 136-170.
- Broski, Thomas J., to General Electric Company. Regulator with optical feedback arrangement wherein both input and output voltage are sensed. 3,646,439, 2-29-72, Cl. 323-21.
- Brosław, Edwin, to Crest-Foam Corporation. Apparatus for locating the geometric center of a workpiece. 3,700,901, 10-24-72, Cl. 250-201.000.
- Bross, Helmut. Writing tool. 3,637,316, 1-25-72, Cl. 401-104.
- Bross, Helmut. Moving toy. 3,645,039, 2-29-72, Cl. 46-206.
- Bross, Helmut, to Ritter, J. Jacob, Firma KG. Control mechanism. 3,653,777, 4-4-72, Cl. 401-110.
- Bross, William T., to Liebel-Flarsheim Company; division of Sybron Corporation. Electro-surgical apparatus. 3,658,067, 4-25-72, Cl. 128-303.14.
- Brossar, Bernard Pierre: See—
Boichard, Jacques; Brossar, Bernard Pierre; Duroux, Jacques Marius; and Janin, Raymond Marc Clement, 3,651,135.
- Brossard, Andre: See—
Bauer, Jean-Michel; and Brossard, Andre, 3,656,721.
- Brossard, Bernard: See—
Boichard, Jacques; Brossard, Bernard; Gay, Michel; and Janin, Raymond, 3,660,481.
Boichard, Jacques; Brossard, Bernard; Gay, Michel; and Janin, Raymond, 3,661,988.
- Brossard, Daniel, to Compagnie de Saint-Gobain. Method of and apparatus for the production of fibers from thermoplastic materials, particularly glass fibers. 3,650,716, 3-21-72, Cl. 65-6.
- Brousseau, Joseph E., to Brousseau, Joseph E., Co. Thermoresponsive control for electrical heating units. 3,643,197, 2-15-72, Cl. 337-270.
- Brousseau, Joseph E., Co.: See—
Brousseau, Joseph E., 3,643,197.
- Brousseau, Louis Philippe, to Formex Ltd. Plastic plugs for use in concrete forms. 3,643,909, 2-22-72, Cl. 249-41.
- Brossi, Arnold; Focella, Antonino; Rachlin, Albert Israel; and Teitel, Sidney, to Hoffmann-La Roche Inc. Substituted phenylmalonic acid and phenylalkylmalonic acid esters. 3,636,080, 1-18-72, Cl. 260-473.
- Brossi, Arnold; and Pecherer, Benjamin, to Hoffmann-La Roche Inc. Synthesis of substituted dibenzo[d,f]azonines and intermediates. 3,654,343, 4-4-72, Cl. 260-473.
- Brossi, Arnold; and Teitel, Sidney, to Hoffmann-La Roche Inc. Process for 2,4-diamino-5-(3, 5-dimethoxy-4-hydroxybenzyl) pyrimidine. 3,684,810, 8-15-72, Cl. 260-256.40n.
- Brother Industries Ltd.: See—
Hishida, Yukio; Kato, Takami; and Kurachi, Hisao, 3,638,775.
Hishida, Yukio; Kato, Takami; Hirata, Takashi; and Kurachi, Hisao, 3,642,110.
- Brother Kogyo Kabushiki Kaisha: See—
Hishida, Yukio; Nakai, Toshio; and Kuzuya, Susumu, 3,706,366.
Iwashima, Hideo; and Fukao, Satoshi, 3,678,424.
Makiyara, Tsutomu; and Yoneji, Satoshi, 3,688,710.
Makiyara, Tsutomu; and Yoneji, Satoshi, 3,688,714.
Sakawa, Katuaki; and Kozawa, Tetuo, 3,705,561.
Torii, Masaru, 3,696,768.
Yamashita, Chikao, 3,675,603.
- Brothers, Doris Le Roy: See—
Kircher, Charles E., Jr.; McAlister, Donald R.; and Brothers, Doris Le Roy, 3,691,240.
- Brothers' Metal Products, Inc.: See—
Siegmann, Robert L., 3,685,560.
- Brotherton, David H.: See—
Bahner, Carl T.; Brotherton, David H.; and Brotherton, Mary K., 3,637,677.
- Brotherton, Mary K.: See—
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- Brotherton, Thomas K.; Lynn, John W.; and Knopf, Robert J., to Union Carbide Corporation. Polyurethane products. 3,677,983, 7-18-72, Cl. 260-2.5at.
- Brotherton, Thomas Kemper: See—
Colomb, Henry Octave, Jr.; Trecker, David J.; and Brotherton, Thomas Kemper, 3,658,669.
- Brotman, Harry D.: See—
Eads, Charles L.; and Brotman, Harry D., 3,695,068.
- Brotz, Walter; and Dallmann, Bruno, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Lubricant compositions for masses of polyvinyl chloride and process for making. 3,640,828, 2-8-72, Cl. 252-17.
- Brotzmann, Karl: See—
Knuppel, Helmut; Brotzmann, Karl; Fassbinder, Hans-Georg; Savard, Guy; and Lee, Robert, 3,706,549.
- Brouard, Claude Marie Henri Emile: See—
Le Roy, Jean Marie Louis; and Brouard, Claude Marie Henri Emile, 3,644,329.
Leroy, Jean Marie Louis; and Brouard, Claude Marie Henri Emile, 3,663,530.
- Brouard, Dominique. Apparatus and method for forming a sound hologram. 3,683,323, 8-8-72, Cl. 340-3.00r.
- Brouchu, Rene Robert; and Taylor, Lytton, to American Cyanamid Company. Process for bonding two solid articles together in which a catalyzed unsaturated polyester resin is used in combination with a promoted unsaturated polyester resin. 3,697,353, 10-10-72, Cl. 156-310.000.
- Brougham, George D. Archery bow with arrow support structure. 3,698,375, 10-17-72, Cl. 124-24.000.
- Broughton, Donald B.: See—
Stine, Laurence O.; and Broughton, Donald B., 3,636,121.
Stine, Laurence O.; and Broughton, Donald B., 3,707,550.
Uitti, Kenneth D.; and Broughton, Donald B., 3,632,315.
- Broughton, Donald B., to Universal Oil Products Company. Combination isomerization and aromatic separation process. 3,636,180, 1-18-72, Cl. 260-668.
- Broughton, Donald B., to Universal Oil Products Company. Dual temperature fixed carbon bed heavy water concentration process. 3,700,417, 10-24-72, Cl. 23-312.00w.
- Broughton, Eugene F. Pack of game playing ticket. 3,655,198, 4-11-72, Cl. 273-139.
- Broughton, James A., to Brown and Williamson Tobacco Corporation. Lightly prized tobacco. 3,693,629, 9-26-72, Cl. 131-5.000.
- Broughton, Jesse I.: See—
Ernest, Dale S., 3,640,266.
- Broughton, Terence D.: See—
Stoddard, Ivan; and Broughton, Terence D., 3,705,433.
- Brouillard, Robert E.; Coughlin, Leonard J.; and Winfrey, Vernon L., to Penick & Ford Limited. Benzyl starch emulsion coating compositions. 3,672,922, 6-27-72, Cl. 106-211.000.
- Broumand, Hormoz K.: See—
Griffin, Gordon S.; and Broumand, Hormoz K., 3,689,285.
- Broun, Thorowgood T., Jr., to PPG Industries, Inc. Montmorillonite clays as aids in steam distillation of tetraalkyl lead. 3,707,443, 12-26-72, Cl. 203-50.000.
- Broun, Morrison John, to Otis Elevator Company. Elevator cab structure. 3,631,942, 1-4-72, Cl. 187-1.
- Brouns, Jan Willem: See—
Kuiper, Adrianus; Brouns, Jan Willem; and Visser, Bauke, 3,694,688.
- Broussard, Edwin C. Turn around pan shield for automatic pin setters. 3,701,530, 10-31-72, Cl. 273-43.00r.
- Broussard, Evest A., III: See—
Larson, Alworth D.; Braymer, Hugh D.; and Broussard, Evest A., III, 3,692,631.
- Broussard, Paul Daniel. Electromagnetic audio pickup for stringed musical instruments, with volume control means, and suitable for use with an type strings. 3,668,295, 6-6-72, Cl. 84-1.15.
- Broussard, Staffas, Sr. Hair comb with adjustably tapered teeth. 3,638,665, 2-1-72, Cl. 132-129.
- Broussaud, George G. T.; and Spitz, Erich, to CSF-Thomson. Bandwidth compandor system. 3,634,693, 1-11-72, Cl. 250-216.
- Broussaud, Georges; and Wang, Pierre L., to CSF-Thomson. Holographic recording system with a separately recorded reference beam. 3,633,986, 1-11-72, Cl. 350-3.5.
- Broussaud, Georges; and Tinet, Claude, to CSF-Thomson. Radiometer systems. 3,638,494, 2-1-72, Cl. 73-355.
- Broussaud, Georges; and Lowenthal, Serge, to CSF-Thomson. Signal spectral multiplexing system. 3,703,640, 11-21-72, Cl. 250-199.000.
- Brouwer, Abraham; and Van Loom, Gerardus M. A. M., to Melk-centrale Gouda N.V. Process of isolating native albumin and/or globulin from an aqueous system comprising raising the pH to above 8.5 and then lowering the pH to the isoelectric point to precipitate protein. 3,687,928, 8-29-72, Cl. 260-122.000.
- Brouwer, Charles W.; Bucheister, Henry C.; and Tata, Raymond V., to Leeson Corporation. Bobbin handling apparatus. 3,700,051, 10-24-72, Cl. 177-59.000.

- Brouwer, Jan Nicolaas; Henning, Gerardus Johannes; and Van Der Wel, Hendrik, to Lever Brothers Company. Protein flavouring agents prepared from synsepalum dulcificum. 3,682,880, 8-8-72, Cl. 260-112.00r.
- Browerman, Irwin, to Mallory, P. R., & Co., Inc. Electrically conductive material and electrical contact. 3,641,298, 2-8-72, Cl. 200-166.
- Browall, Kenneth W.; and Interrante, Leonard V., to General Electric Company. Humidity sensor. 3,703,696, 11-21-72, Cl. 338-35.000.
- Browatzki, Kurt: See—
Herzhoff, Peter; Gref, Hans; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Browatzki, Kurt; and Friedsam, Josef, 3,645,773.
- Browatzki, Kurt: See—
Herzhoff, Peter; Platz, Stephan; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Browatzki, Kurt; and Gref, Hans, 3,635,192.
- Herzhoff, Peter; Gref, Hans; Behr, Rolf; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Friedsam, Josef; and Browatzki, Kurt, 3,638,604.
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- Browatzki, Kurt; Gref, Hans; Herzhoff, Peter; Maus, Fritz; Platz, Stephan; Schaum, Gustav; Schweicher, Wolfgang; and Wasser, Willi, to Agfa-Gevaert Aktiengesellschaft. Process and apparatus for coating web supports. 3,676,178, 7-11-72, Cl. 117-34.000.
- Browder, Lewis B.: See—
Hodder, Wayne K.; and Browder, Lewis B., 3,683,131.
- Browder, Lewis B., to Bell & Howell Company. Apparatus for contact copying magnetic records including shield for preventing erasure of the master record. 3,641,280, 2-8-72, Cl. 179-100.2.
- Browder, Timothy J., Jr., to Parsons, Ralph M., Company, The. Method of manufacture of sulfur dioxide from sulfurous materials containing nitrogen compounds. 3,682,593, 8-8-72, Cl. 23-177.000.
- Brower, David F., to Gulf Oil Corporation. Electromagnetic forming apparatus. 3,654,787, 4-11-72, Cl. 72-56.
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- Kochler, Albert M., 3,693,361.
- Lawrence, Joseph Benton, 3,633,369.
- Morgan, William A., 3,667,128.
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- Nolan, Clyde E., Jr.; Morgan, William A.; and Rochelle, William R., 3,680,322.
- Nolan, Clyde E., Jr., 3,701,261.
- Rochelle, William R., 3,645,563.
- Rochelle, William R.; and Wycoff, Ronald Lee, 3,646,947.
- Smith, Leif H., 3,699,692.
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- Brown, Alexander M., to Sherwood Medical Industries, Inc. Hypodermic syringe. 3,672,369, 6-27-72, Cl. 128-218.00p.
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Marzocchi, Alfred; and Brown, Alfred Winsor, 3,658,108.
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Broughton, James A., 3,693,629.
- Frische, Andrew Ferdinand, 3,699,972.
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- Horsewell, Henry George; and Terry, Arthur John, 3,693,369.
- Russell, Frederick, 3,664,351.
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- Brown, Arthur K., Jr., to Bendix Corporation, The. Hydraulic booster with safety device. 3,677,140, 7-18-72, Cl. 91-391.000.
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- Brown, Bernard Bean; and Ruopp, Donald Carl, to CPC International Inc. Synthesis of 1-substituted-3-halopyrrolidines. 3,691,198, 9-12-72, Cl. 260-326.800.
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- Domres, Hans Georg; Simons, Emil; and Gillhaus, Horst, 3,685,573.
- Gross, Franz; and Krapf Rudolf, 3,683,209.
- Hegewaldt, Fritz, 3,663,131.
- Knirsch, Gunther; and Schmitt, Hermann, 3,691,489.
- Korner, Gerhard; Schmitz, Wolfgang; Dabringhausen, Friedrich; and Gruber, Lothar, 3,674,957.
- Zimmermann, Volker, 3,674,994.
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Iten, Paul Dominik; and Mottier, Francois, 3,675,029.
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Fruttschi, Hans Ulrich, 3,699,681.
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Rausch, Wilfried; von der Decken, Claus Benedikt; and Bachus, Klaus-Peter, 3,650,894.
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Mitchell, Colin Campbell, 3,688,726.
- Brown, Bruce J., to United States of America, Navy. Digital frequency lock generator. 3,676,793, 7-11-72, Cl. 331-1.00a.
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Mitchell, James P.; and Brown, Bruce T., 3,662,960.
- Brown, Bryce H., 1/2 to Brown, Darr R. Telephone line terminal block cover. 3,666,996, 5-30-72, Cl. 317-118.000.
- Brown, Buck C., to Control Concepts Corporation. Vertical locking circuit. 3,678,199, 7-18-72, Cl. 178-69.5tv.
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- Brown, Charles A., to General Cable Corporation. Apparatus for controlling the dimensions of multiple layers of extruded insulation. 3,635,620, 1-18-72, Cl. 425-113.
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- Brown, Colin V., to USM Corporation. Wiper stop for shoe lasting machine. 3,657,754, 4-25-72, Cl. 12-12.4.
- Brown, Curtis L., to Midland-Ross Corporation. Power brake mechanism. 3,661,054, 5-9-72, Cl. 91-369.
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Brown, Delmont D., 3,687,022.
- Brown, Dale G.: See—
Hill, Ira D.; Mikherjee, Barid B.; and Brown, Dale G., 3,678,172.
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Engeler, William E.; and Brown, Dale M., 3,686,748.
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- Brown, Daniel M. Breech mechanism with interchangeable chamber inserts for caseless and case-type cartridges. 3,656,250, 4-18-72, Cl. 42-76.
- Brown, Darr R.: See—
Brown, Bryce H., 3,666,996.
- Brown, David, Gear Industries Limited: See—
Chesters, Walter T., 3,703,756.
- Brown, David L.: See—
Satterfield, Homer E.; Stottlemeyer, Keith D.; Brown, David L.; and Roberts, Leslie, 3,700,547.
- Brown, David T.: See—
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Eastwood, Thomas, 3,695,403.
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- Brown, Donald, to United States of America, Army. Long pulse diurnal timer. 3,668,590, 6-6-72, Cl. 337-51.000.
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- Brown, Dwight C. Practice bat and ball. 3,635,475, 1-18-72, Cl. 273-26.
- Brown, Dwight C. Press-on support for a pallet. 3,641,948, 2-15-72, Cl. 108-51.
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- Brown, Edgar D., Jr., to General Electric Company. Hydrocarbon or silicone lubricating oil containing dehalogenoethyl substituted organosilicon compounds. 3,694,358, 9-26-72, Cl. 252-49.600.
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- Brown, Edward L., to Armco Steel Corporation. Bolt. 3,640,326, 2-8-72, Cl. 151-37.
- Brown, Elliot E., to Ocean Drilling & Exploration Company. Self-propelled semi-submersible drilling rig. 3,653,349, 4-4-72, Cl. 114-.5.
- Brown, Elmer T.; and Carroll, Jackson H., to West Coast Adhesives Company. Method for producing elongated plywood panels. 3,686,061, 8-22-72, Cl. 161-56.000.
- Brown, Elvin E., to Collins Radio Company. Pin and socket contact electrical interconnect system. 3,663,931, 5-16-72, Cl. 339-218.00r.
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Rosenberg, Barnett; Brown, Felix H.; and Williamson, David Theodore Nelson, 3,643,014.
- Brown, Firth, Limited: See—
Kirkby, Henry William; and Hogg, Arthur, 3,663,208.
- Brown, Frank: See—
Tell, Mayo B.; Kidd, Donald D.; Wickham, William T.; and Brown, Frank, 3,664,382.
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- Brown, Fred, to Union Tank Car Company. Liquid level detector. 3,656,134, 4-11-72, Cl. 340-244.
- Brown, Fred A., III; and Le Mere, Roger, to Cluett, Peabody & Co., Inc. Stay fixing machine. 3,697,354, 10-10-72, Cl. 156-380.000.
- Brown, Fred P., Jr.; and Rohdin, Howard A., to Packaging Industries, Inc. Re-entrant forming apparatus. 3,640,668, 2-8-72, Cl. 18-35.
- Brown, Fred P., Jr., to Packaging Industries, Inc. Apparatus for forming containers. 3,647,335, 3-7-72, Cl. 425-143.
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- Brown, Frederick L., to Dow Chemical Company, The. Condensation resins from aldehydes, polynuclear catechol and resorcinol. 3,704,200, 11-28-72, Cl. 161-262.000.

- Brown, Gaylor W., to Koehring Company. Apparatus for forming protrusions with enlarged head portions in thermoplastic sheet material. 3,669,606, 6-13-72, Cl. 425-398.
- Brown, Gaylor W.; Brushaber, Larry; and Brown, Melvin L., to Koehring Company. Apparatus for friction welding synthetic plastic container parts and the like. 3,701,708, 10-31-72, Cl. 156-582,000.
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- Brown, Gaylord W., to Koehring Company. Apparatus and methods for friction welding plastic parts which require a particular relative angular orientation. 3,669,809, 6-13-72, Cl. 156-582,000.
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Carlson, Harold G.; Fuller, Clyde R.; and Brown, George A., 3,632,438.
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- Brown, George A.; and Hinds, Francis Michael. Pipe line cleaner and sealer. 3,655,122, 4-11-72, Cl. 239-226.
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- Brown, George J.; and Ewing, Robert J., to Worthington Biochemical Corporation. Means and method for chemical analysis. 3,691,017, 9-12-72, Cl. 195-103,50r.
- Brown, George M.; and Newman, Phyllis L., to Sauna International, Inc. Automatic parachute harness release assembly. 3,632,066, 1-4-72, Cl. 244-151.
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Gerlach, Charles R.; and Brown, Robinson W., 3,672,797.
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- Brown, Harvey A.; and Jones, Robert B., to Minnesota Mining and Manufacturing Company. Imaging apparatus and method. 3,682,549, 8-8-72, Cl. 355-132,000.
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Fuchs, Charles F.; and Brown, Henry, 3,639,220.
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- Brown, Henry, to Udylyte Corporation, The. Electroplating of nickel. 3,663,378, 5-16-72, Cl. 204-49,000.
- Brown, Henry, to Udylyte Corporation, The. Electrolytic codeposition of polyvinylidene and copolymer particles with copper. 3,676,308, 7-11-72, Cl. 204-16,000.
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- Brown, Henry C., to Brown Well Service & Supply Company. Well pipe string valve. 3,684,013, 8-15-72, Cl. 166-724,000.
- Brown, Herbert C. Alkylolation with organoboranes. 3,632,823, 1-4-72, Cl. 260-408.
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Benson, Merle K., 3,648,752.
Clark, Thomas J.; and Brown, Howard W., 3,647,511.
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Sullivan, Gene F., 3,671,015.
- Brown, Hugh Clifford, to Scovill Manufacturing Company. Pressure regulator. 3,656,497, 4-18-72, Cl. 137-116,500.
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Bushman, Ronald C., 3,707,176.
Douglas, Peter L., 3,647,475.
Rickard, Donn J.; Rohm, Robert F.; and Holbrook, Franklin K., 3,682,207.
Rickard, Donn J., 3,696,584.
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Gordon, Reuben H.; and Brown, Ivan H., 3,664,327.
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Beckham, Robert R.; Walters, Emmett L.; Brown, Jack G.; De Rose, Kenneth M.; and Ryan, Joseph D., 3,673,981.
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- Brown, James L.; Himebaugh, Donald T.; and Montgomery, James R., to Mallinckrodt Chemical Works. Radiation-shielding receptacle for a bottle for receiving a radioactive eluate. 3,655,985, 4-11-72, Cl. 250-108.
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- Brown, John M. Apparatus for blocking fluid flow in a well casing. 3,693,715, 9-26-72, Cl. 166-55,000.
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- Brown, John S., to FMC Corporation. Molding machine with spray defrost. 3,695,895, 10-3-72, Cl. 99-136,000.
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- Brown, Joseph P., to Monsanto Chemicals Limited. Certain 3-methylene diaxyphenyl-rhodanines. 3,682,944, 8-8-72, Cl. 260-306,700.
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Landis, George G.; Parks, John M.; and Brown, Kenneth L., 3,691,340.
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- Brown, Peter William, to Girling Limited. Disc brakes and mounting structure therefor. 3,682,277, 8-8-72, Cl. 188-73,300.
- Brown, Philip; and Hawkins, Peter. Apparatus for producing tufted material. 3,641,955, 2-15-72, Cl. 112-79.
- Brown, Philip, to Mintray Limited. Methods of manufacturing garments. 3,694,817, 10-3-72, Cl. 2-243,00r.
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- Brown, Ray B.; Fluhr, Frederick R.; and Hall, George L., to United States of America, Navy. Laser output attenuator. 3,698,797, 10-17-72, Cl. 350-266,000.
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- Brown, Richard W., to Control Data Corporation. Receiver-transmitter apparatus. 3,659,277, 4-25-72, Cl. 340-203.000.
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Jeffery, Robert W.; Brown, Robert A., Jr.; and Cullen, Allen F., 3,673,978.
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- Brown, Robert F., to Research-Cottrell, Inc. Combustion gas scrubbing system. 3,635,000, 1-18-72, Cl. 55-89.
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Novak, David M.; and Brown, Roberty E., 3,697,739.
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Gerlach, Charles R.; and Brown, Robinson W., 3,672,797.
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- Brown, Stuart I., Jr. Apparatus for manufacturing biaxially oriented film with dimensional stability. 3,661,482, 5-9-72, Cl. 18-1.
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Logemann, Heino; and Bruckmann, Paul-Gunther, 3,649,608.
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Muller, Hans Joachim; and Bruckner, Horst, 3,707,065.
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Wyatt, Philip J.; Trundle, Albert S.; and Bruckner, Judith B., 3,654,437.
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Schoots, Peter J.; Brugmans, Johannes Thomas; and Hoogenhout, Klaas, 3,702,053.
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Hoyt, Charles T.; Haun, John W.; Hensel, Dwight L.; Hansen, Clarence M.; Lovely, Walter G.; and Bruhn, Hjalmar D., 3,671,077.
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Brunton, Donald C., 3,693,025.
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Riedhammer, Joseph; and Glasco, Fritz-Jorg, 3,679,327.
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Willich, Jean Herbert; and Bruninghaus, Walter, 3,690,425.
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Willich, Jean Herbert; and Bruninghaus, Walter, 3,690,425.
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Meyers, Peter G.; Sweeney, Eric C.; and Brunkhardt, Frederick W., 3,677,422.
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Anderson, Robert I., 3,633,917.
- Berry, Foster W., 3,704,016.
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- Cornell, William D., 3,645,528.
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- Gretsky, Anthony J., 3,664,392.
- Gretzky, Anthony J., 3,655,203.
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- Larsen, Jack H.; Trier, Louis J.; and Rytina, Anton W., 3,634,954.
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- Murphy, Patrick J.; and Thompson, Robert C., 3,662,258.
- Nunes, John; and Martin, Albert D., 3,698,963.
- O'Connor, Thomas W., 3,652,089.
- Reineman, Richard G.; and Schaefer, George E., 3,700,279.
- Reynolds, Eugene E., 3,649,015.
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- Roberts, John A.; and King, Alwyn H., 3,678,564.
- Roberts, John A.; and Roberts, Peter R., 3,698,863.
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- Rogers, Albert P.; Conklin, Robert M.; and Baldwin, Bradford J., 3,658,343.
- Sanders, James W., 3,633,007.
- Sanders, James W., 3,633,008.
- Sanders, James W., 3,671,724.
- Schmiedel, Robert C., 3,641,965.
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- Torresen, Robert; and Grosvenor, Herbert D., 3,643,945.
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Ahler, Wilhelm; Bungardt, Walter; Brusdeylins, Andreas; Damm, Paul; and Herget, Camillo, 3,649,390.
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Csontos, Louis J.; and Stonehouse, Albert James, 3,694,331.
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Lee, James L., 3,641,606.
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Farrer, Sydney, 3,635,239.
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Joo, Louis A.; and Bryan, Loren A., 3,681,401.
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Bryant, Stanley Charles; and Mohlenrich, Kenneth H., 3,654,165.
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Kimble, Floyd E.; and Buchsieb, Richard H., 3,650,484.
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Schoggen, Howard L., 3,678,031.
- Buckeye Ribbon & Carbon Company: See—
Virmelson, Robert Craig, 3,682,848.
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Simons, Ira W., 3,687,325.
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Forsten, Irving; and Buckley, William J., Jr., 3,665,803.
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Pera, John D.; and Rath, Fred W., 3,669,981.
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Craig, Sam N.; Warner, Ellis R., Jr.; and Buckman, Wayne T., 3,688,687.
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Bletcher, James H.; and Rau, Jack K., 3,684,190.
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Street, Frederick G.; and Buckwalter, Paul S., 3,674,276.
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Klang, Daniel M., 3,706,020.
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Baer, Josef, 3,650,053.
Calud, Romeo T., 3,638,480.
Gottfried, Reuter; and Ajfro, Fortunato S., 3,687,227.
Grider, Lyle D.; Hornagold, John T.; and Rathi, Ram N., 3,686,862.
Kraschnewski, Melvin W.; and Stoldt, Erwin F., 3,680,928.
Kraschnewski, Melvin W.; and Lesniewski, Gerald F., 3,690,483.
Trick, Robert E., 3,693,474.
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Skolnick, Michael L.; and Buczek, Carl J., 3,697,151.
Skolnick, Michael L.; and Buczek, Carl J., 3,700,309.
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- Budan, Gerhard: See—
Hartmann, Hellmut; and Budan, Gerhard, 3,679,362.
- Budavari, John: See—
Hinkley, David F.; and Budavari, John, 3,636,158.
- Budd Company, The: See—
Almond, Elmer C., 3,670,393.
Bradley, John N.; and Pentescu, Peter N., 3,635,274.
Eggert, Walter S., Jr.; and Frankel, Michael S., 3,647,168.
Eggert, Walter S., Jr., 3,685,796.
Eggert, Walter S., Jr., 3,694,724.
Eggert, Walter S., Jr., 3,705,705.
Einhorn, Stanley C., 3,704,602.
Gilmour, Richard C.; Kaitz, Vincent A.; and Lemberger, Adolph W., 3,705,525.
Haas, Charles H., 3,670,392.
Herring, James M., Jr., 3,695,186.
Hurlebaus, Richard P., 3,671,713.
Jahnle, Herbert A., 3,671,227.
Linville, Richard O., 3,694,024.
MacKinney, John J., 3,704,175.
Marchetti, John W.; and Kiser, Herbert H., 3,648,189.
Mattia, Michael, 3,671,405.
Mattia, Michael; and Van Sciver, Herbert D., II, 3,671,406.
Moore, Amos J., 3,636,797.
Rosiek, Frank C., 3,699,637.
Van Sciver, Herbert D., II; and Mattia, Michael, 3,639,215.
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Steuber, Charles H.; Cremer, Robert L.; and Wood, Jerry D., 3,633,307.
- Buderus'sche Eisenwerke: See—
Hubert, Helmut, 3,635,037.
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Lauer, Karl; Budka, Heinz-Gunter; and Stoeck, Georg, 3,686,117.
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Saran, Herbert; and Budnowski, Manfred, 3,655,624.
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Lee, Ernest O., Jr.; Adams, John A., Jr.; and Budrys, Ignas, 3,651,270.
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Georgescu, Eugenia; Ghejan, Ion; Bucur, Victor; Mazare, Theodora; Zima, Ion; Popescu, Elena Lygia; Budu, Adrian; Olteanu, Bujor; Filotti, Traian Mircea; and Barbul, Marius Aurel, 3,707,509.
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- Buechner, Oskar: See—
Steigerwald, Klaus; Buechner, Oskar; Ball, Wolfgang; Pfannmueller, Helmut; and Urban, Friedrich, 3,654,253.
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- Buehler, Allan M., to Trigroup Industries, Ltd. Door assembly. 3,658,114, 4-25-72, Cl. 160-207.
- Buehler, Arthur: See—
Back, Gerhard; Abel, Heinz; Buehler, Arthur; and Litzler, Alfred, 3,692,462.
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Boyd, Gary Delane; Buehler, Ernest; and Gandrud, William Bentley, 3,675,039.
- Buehler, William J. TiNi cast product. 3,672,879, 6-27-72, Cl. 75-170.000.
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- Buell Engineering Company, Inc.: See—
Mullen, Hugh, 3,631,655.
- Turpin, Alexander J.; and Yarnell, William T., 3,645,516.
- Buell, Eugene F. Anti-theft devices for motorcycles, bicycles and the like. 3,673,562, 6-27-72, Cl. 340-63.
- Buell, Halsey W.: See—
Burtch, Alfred H.; and Buell, Halsey W., 3,707,059.
- Buell, Halsey W., to Carborundum Company, The. Oversized abrasive coated products. 3,676,092, 7-11-72, Cl. 51-295.000.
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Becker, Phillip D., 3,672,532.
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Martel, Jacques; and Buendia, Jean, 3,694,472.
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- Buening, Robert, to Dynamit Nobel Aktiengesellschaft. Copolymers of vinyl chloride. 3,663,519, 5-16-72, Cl. 260-80.81.
- Buerger, Gert: See—
Decker, Martin; Stechl, Hanns-Helge; Palm, Christof; and Buerger, Gert, 3,637,797.
- Buerger, Herbert. Process for making a wheel trim lock ring assembly. 3,676,919, 7-18-72, Cl. 29-469.000.
- Buerki, Christian E., to Norris Industries Inc. System for detecting safety switch failure. 3,699,300, 10-17-72, Cl. 219-10.550.
- Bues, Jean Pierre: See—
Soviche, Gilles Andre Paul; Bues, Jean Pierre; Pavlin, Cyrille Francois; and Mace, Edouard Maurice Eugene Aime, 3,654,945.
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Lindquist, Julius A.; and Buese, George J., 3,665,918.
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- Buettner, Carl F. Fluid flow measuring device. 3,638,490, 2-1-72, Cl. 73-212.
- Buettner, Egon: See—
Oppenlaender, Knut; Liebold, Gert; Mohr, Rudolf; Buettner, Egon; and Matschat, Karl, 3,684,735.
- Buettner, Guenther. Wire rope ferrule. 3,638,975, 2-1-72, Cl. 287-75.
- Buettner, John H.: See—
Hawley, George F.; and Buettner, John H., 3,664,657.
- Bufa, Antonio: See—
Tarducci, Tullio; Gatti, Alvaro; and Bufa, Antonio, 3,701,541.
- Buffington, Albert G., Jr. Tangle free flag rigging. 3,680,526, 8-1-72, Cl. 116-174.000.
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Heitfield, Vernon D., 3,700,253.
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Franck, Heinz-Gerhard; Oberkobusch, Rudolf; Turowski, Johannes; Collin, Gerd; Zander, Maximilian; Erunlu, Recep Kemalettin; Storch, Gunter; Buffleb, Herbert; and Sauerland, Hans-Dieter, 3,636,178.
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Harte, Robert B., 3,641,326.
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Korth, Jurgen, 3,672,555.
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Cosman, Cornelius M.; and Buker, Donald O., 3,699,213.
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Bukalders, Edwards, 3,667,982.
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Wennerberg, Arnold N.; and Bukvich, John T., 3,642,657.
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Erlykin, Ivan Ivanovich; Vasin, Alexandr Ivanovich; Korotkov, Mikhail Mikhailovich; Maximov, Vadim Yakovlevich; Matveev, Ivan Ivanovich; Kadyshchev, Vladimir Alexandrovich; Volkov, Valentin Vladimirovich; Firsell, Vladlen Borisovich; Bulatkin, Vladimir Dmitrievich; Malekhanov, Igor Evgenievich; and Suldin, Stanislav Nikolaevich, 3,693,570.
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Emmerich, Heinz; and Bulk, Eggert, 3,680,608.
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Poole, Richard R.; and Bulkley, David D., 3,653,263.
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Waller, Arthur, 3,704,563.
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Keulen, Gerben Jan; and Kroes, Johannes Petrus, 3,664,658.
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Allen, Joseph Stevens; and Bulla, Zeb Vance, Jr., 3,662,641.
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Schoep, Vernon R.; and Bullai, Carl N., 3,649,917.
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Moretti, Anthony L., 3,638,283.
Raschke, Herbert A., 3,640,555.
Raschke, Herbert A., 3,685,054.
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Thomson, George A., 3,686,738.
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Bell, Samuel; and Bullen, Leslie Gerald, 3,705,431.
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Brown, Clyde O.; and Bullis, Robert H., 3,641,457.
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Robbins, William Paul; and Bullock, Clifford Ralph, 3,700,019.
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Ghosh, Ranajit; Bishop, Nigel Douglas; and Bullock, Derek John William, 3,652,566.
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Waltz, Edward, 3,635,383.
Waltz, Edward, 3,696,980.
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Colinet, Rene D.; and Bulmash, William I., 3,686,987.
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Gortnar, Franc; Zalokar, Zarko; Klun, Fedor; and Bulog-Gortnar, Velen, 3,656,570.
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Baumgartner, Werner Richard; Walker, Erich; Kaufmann, Hans Peter; and Biene, Canton, 3,683,613.
Dostal, Frank, 3,666,974.
Dostal, Frank; and Badowski, Charles, 3,700,304.
Haafte, Egbert Van, 3,693,342.
Mutter, William W., 3,672,153.
Van Haafte, Egbert, 3,699,764.
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Schulz, Hansrichard; Bulow, Joachim; Schmitt, Berthold; and Schneider, Rudolf, 3,662,079.
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Brunner, Curt; and Bultemann, Hans-Joachim, 3,678,656.
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Lefdegard, Sixten Harald, 3,680,195.
Lefdegard, Sixten H., 3,682,038.
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Kuznetsov, Lev Vasilievich; Slavinsky, Zunya Mikhalevich; Kalachev, Vasily Alexeevich; Krupin, Alexandr Leonidovich; Aristarkhov, Nikolai Alexandrovich; Popkov, Eduard Jurievich; Trutnev, Vladimir Alexandrovich; and Bulychev, Nikolai Petrovich, 3,704,496.
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Huebotter, Paul R.; and Bump, Thomas R., 3,677,893.
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Schaum, Helmut, 3,647,768.
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Story, Richard-Neil; and Bundegaard, Howard, 3,676,540.
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Bol, Jan; Heinze, Werner; Gebhardt, Josef; and Letschert, Werner, 3,646,352.
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Dalton, Thomas B.; and Bundt, Emil E., Jr., 3,666,290.
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Ahler, Wilhelm; Bungardt, Walter; Brusdeylins, Andreas; Damm, Paul; and Herget, Camillo, 3,649,390.
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Fredrickson, Donald M.; and Bungener, Johannes H., 3,640,617.
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Touchy, Wolfgang; and Bungenstab, Eckart, 3,705,825.
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- Bunin, Herbert A.: *See—*
Del Vecchio, Joseph T.; Howell, John; and Bunin, Herbert A., 3,650,578.
- Buning, Robert: *See—*
Bernhardt, Gunther; Buning, Robert; and Trautvetter, Werner, 3,692,502.
- Bierwirth, Egon; Buning, Robert; Dorffurt, Harald; and Konermann, Hans-Ewald, 3,689,598.
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- Buning, Robert; Raalf, Hans; and Pungs, Wolfgang, to Dynamit Nobel Aktiengesellschaft. Production of polyvinyl chloride shaped articles. 3,640,930, 2-8-72, Cl. 260-23.
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- Bunker, Robert W. Lockable assembly and rake-cultivator implement for using same. 3,668,849, 6-13-72, Cl. 56-400.170.
- Bunker, Thomas D.; and Thompson, David F., to Sylvania Electric Products, Inc. Fabrication of packages for integrated circuits. 3,689,336, 9-5-72, Cl. 156-89.000.
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Alessio, Sergio A.; Chow, Weichien; and Kosem, Marion, 3,703,033.
- Assmus, Fritjof Hans; and Knitter, Heinz, 3,693,139.
- Avery, Roger Peter, 3,676,573.
- Baur, Robert, 3,695,116.
- Belcher, Richmond D.; Duggan, Robert J.; Ellis, George R.; Esslinger, Robert H.; Goodyear, W. Frederick; Marshall, Joseph C.; and Masone, Thomas R., 3,656,148.
- Belton, John Price, Jr., 3,701,027.
- Billmann, Gerhard Leonhard Emil, 3,691,511.
- Brevick, Arnold Aage, 3,673,526.
- Bush, George L., 3,667,306.
- Chow, Weichien; and Provinsky, Jerry, 3,680,034.
- Cook, William H., 3,678,190.
- Cowmeadow, Richard R., 3,643,206.
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- Cowmeadow, Richard R., 3,648,222.
- Cripps, Jack, 3,665,371.
- Cummings, Harold K., 3,688,395.
- D'Alessandro, Franklin M., 3,685,005.
- Delberghe, Jean Henri, 3,685,315.
- Dinerstein, Samuel, 3,696,607.
- Elkins, Luejane, 3,643,205.
- Elkins, Luejane, 3,683,314.
- Elkins, Luejane, 3,705,378.
- Foerster, Roy P., 3,644,923.
- Foerster, Roy P., 3,656,115.
- Foerster, Roy P., 3,694,668.
- Gallagher, Frank William; and Casey, Richard C., 3,665,406.
- Hall, Stanley Rylon; and Nichols, Thomas Gilbert, 3,665,512.
- Hammond, Peter George Henry, 3,697,922.
- Harris, Daniel M.; Moore, Jack E.; Taylor, Chester E.; and Walczyk, Walter H., 3,643,278.

Healy, Robert M.; and Marshall, Robert, 3,673,539.
Hohenberg, Reiner Mathias; and Knitter, Heinz, 3,699,280.
Hopkins, Larry; and Willett, Richard L., 3,686,594.
Hutter, Harold G., 3,644,874.
Hutter, Harold G.; and Zerlin, William Max Erich, 3,646,502.
Kehl, Lawrence Joseph; Triner, Irvin Richard; and Janis, Robert Gerald, 3,683,150.
Kitaguchi, Tome; and Renger, Herman L., 3,644,924.
Knitter, Heinz; and Sorg, Paul, 3,706,065.
Konewko, Joseph E.; and Occhipinti, Carl, 3,697,929.
Lawson, Robert R.; and Metzinger, Leonard L., 3,695,032.
Martin, Henry L., 3,641,635.
Mathe, Istvan, 3,650,173.
Melillo, Manlio B.; and Vlachos, Daniel P., 3,634,205.
Metz, Robert Lee; and Greenblum, Carl, 3,648,270.
Moose, Charles R., Jr.; and Jenkins, James L., 3,660,608.
Nijman, John P., 3,686,623.
Nijman, John P., 3,693,140.
Niznik, Emil, 3,645,086.
Occhipinti, Carl; and Cakora, Dennis R., 3,638,167.
Older, Robert B.; and Smith, Charles W., 3,649,274.
Parks, Howard L., 3,705,332.
Querry, Lester Richard, 3,652,944.
Reefman, William E., 3,636,469.
Reefman, William E., 3,636,810.
Reefman, William E., 3,672,152.
Rundle, David F., 3,673,545.
Scarborough, Alfred D., 3,644,671.
Scarborough, Alfred D., 3,685,145.
Segerdahl, Roy R.; and Jonke, Joseph L., 3,676,821.
Treschitta, John Philip; and Perusse, Ralph Edmond, 3,681,719.
Von Vick, George, 3,693,062.
Woods, Gerald F.; and Weaver, Robert, 3,683,320.
Zerlin, William Max Erich; Avery, Roger Peter; and Royce, David Hugh, 3,671,922.
Bunker-Ramo Corporation, The, mesne: See—
Bertram, Sidney, 3,704,058.
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Brown, Robert G.; Sorrells, John R.; and Trent, Joseph E., 3,680,855.
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Bunnell, Charles Milton. Scallop muscle and viscera preconditioner. 3,703,022, 11-21-72, Cl. 17-53.000.
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Goldsworthy, William D.; and Bunnell, John A., 3,701,489.
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Bunting, Charles W.; Fortman, William R.; and Ash, Albert H., to McCall Corporation. Method and apparatus for adding loose inserts to magazines. 3,658,318, 4-25-72, Cl. 270-55.000.
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Bunting, James William: See—
Nienstaedt, Robert; and Bunting, James William, 3,692,986.
Bunting, Leslie J. Control device for projector film stripping and threading mechanism. 3,688,960, 9-5-72, Cl. 226-91.000.
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Bunting, Earl L., 3,699,250.
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Bunting, Thomas G.: See—
Meloan, Clifton E.; and Bunting, Thomas G., 3,661,797.
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Buntz, Billie J.: See—
Mills, Loring E.; Marler, James V.; and Buntz, Billie J., 3,680,690.
Bunyard, Alan Donald. Pilot actuated fluid control valve. 3,688,799, 9-5-72, Cl. 137-625.640.
Bunyea, Roderick F.: See—
Weber, Edwin J.; and Bunyea, Roderick F., 3,646,298.
Buonaiuto, Robert B. Apparatus for making thermoplastic cellular products. 3,676,033, 7-11-72, Cl. 425-174.000.
Buonassissi, Albert J. Hand cart. 3,640,544, 2-8-72, Cl. 280-47.35.
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Burant, Walter, Jr., to Sterling Drug Inc. Sewage sludge and garbage grinder. 3,658,262, 4-25-72, Cl. 241-46.
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Burbick, Ross E.: See—
Calisher, Jay V.; and Burbick, Ross E., 3,662,793.
Calisher, Jay V.; and Burbick, Ross E., 3,674,061.
Burbidge, Bernard Whiting: See—
Bennett, Robert Neil; Parker, Richard Nigel; and Burbidge, Bernard Whiting, 3,663,423.
Burbidge, Bernard Whiting; Keen, Ian Montgomery; and Pout, Christopher Ronald, to British Petroleum Company Limited, The. Hydrocatalytic process for normal paraffin wax and sulfur removal. 3,668,113, 6-6-72, Cl. 208-97.000.
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Burch, Edward N. Underwater pile cutting saw. 3,693,676, 9-26-72, Cl. 143-32.00r.
Burch, Homer A.; and Schwan, Thomas J., to Morton-Norwich Products, Inc. Resolution of L-dopa intermediate. 3,665,032, 5-23-72, Cl. 260-519.
Burch, Jack J., to Texas Instruments, Incorporated. Coherent light array for use in image projection systems. 3,702,929, 11-14-72, Cl. 240-41.000.

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Burch, Lyndon W. Snap action switch with free-floating roller and cam shaped actuator. 3,681,547, 8-1-72, Cl. 200-68.000.
Burch, Randolph. Feeding and conveying device for automatic nailing machines. 3,706,408, 12-19-72, Cl. 227-45.000.
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Burchell, Wesley. Variable pattern recorder. 3,690,011, 9-12-72, Cl. 33-27.00j.
Burcher, George D.: See—
Bossons, Walter H.; Parker, David George; and Burcher, George D., 3,657,858.
Burchett, Keith L. Tubular steel sheeting. 3,636,985, 1-25-72, Cl. 138-162.
Burchill, Phyllis I.: See—
Anker, Charles A.; and Burchill, Phyllis I., 3,684,522.
Burchill, Phyllis I.: See—
Schilling, Eugene D.; and Burchill, Phyllis I., 3,674,506.
Burcin, Robert J.; Johnson, Orville L.; and Mouton, Rene P., to Foster Wheeler Corporation. Flexible coupling. 3,682,501, 8-8-72, Cl. 285-114.000.
Burck, Willem Marinus, to N.V. Industriele Handelscombinatie Holland. Piston of an internal combustion engine. 3,633,468, 1-11-72, Cl. 92-186.
Burckhalter, Albert Cohen Frank O., to Westinghouse Electric Corporation. Protective system for automatic actuation of steam turbine drain valves. 3,694,103, 9-26-72, Cl. 415-168.000.
Burckhalter, James A. Lifting device. 3,672,716, 6-27-72, Cl. 294-50.600.
Burckhardt, Chr.: See—
Burckhardt, Christoph; and Glaser, Walter, 3,646,639.
Burckhardt, Christoph; and Glaser, Walter, to Burckhardt, Chr. Porcupine rollers. 3,646,639, 3-7-72, Cl. 19-97.
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Burckhardt, Manfred H.; Florus, Hans-Jorg; and Grossner, Horst, to Daimler-Benz Aktiengesellschaft. Installation for preventing spinning of the driven wheels of a motor vehicle. 3,667,813, 6-6-72, Cl. 303-21.
Burckhardt, Manfred H.; Florus, Hans-Jorg; Grossner, Horst; and Krohn, Helmut, to Daimler-Benz Aktiengesellschaft. Brake force controls system for vehicles, especially motor vehicles. 3,672,730, 6-27-72, Cl. 303-21.0be.
Burd, Braddock & Bartz: See—
Wasserman, Arthur, 3,648,649.
Burd, John W., to Monsanto Company. Apparatus for production of epitaxial films. 3,675,619, 7-11-72, Cl. 118-48.000.
Burd, Thomas A., to Square D Company. Rotatably reversible connector for electric circuit breaker. 3,679,854, 7-25-72, Cl. 200-166.00b.
Burda, Jan C.: See—
Blatchford, John K.; Peterson, Edward C.; and Burda, Jan C., 3,679,473.
Blatchford, John K.; Peterson, Edward C.; and Burda, Jan C., 3,694,627.
Burden, Billy J. Pegboard game unit with utility compartment. 3,658,334, 4-25-72, Cl. 273-133.
Burden, Peter; and Whitton, Colin Alfred, to Hooker Chemical Corporation. Composition and process for cleaning metal. 3,645,790, 2-29-72, Cl. 134-3.
Burdeska, Kurt: See—
Pugin, Andre; Burdeska, Kurt; and Model, Ernst, 3,682,966.
Pugin, Andre; Burdeska, Kurt; and Model, Ernst, 3,701,791.
Burdet, Evelyn; and Hofer, Kurt. Nickel compounds. 3,686,246, 8-22-72, Cl. 260-439.00r.
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Burdett, Michael Keith: See—
Osborne, Colin Terry; and Burdett, Michael Keith, 3,644,718.
Burdett, Roy. Folding bed assembly for a vehicle. 3,675,965, 7-11-72, Cl. 296-23.000.
Burdette, George William, to United States of America, Navy. Solid propellant composition containing gelled hydrazine. 3,634,154, 1-11-72, Cl. 149-20.

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Burdette, Marvin A., Jr. Genital erector. 3,631,853, 1-4-72, Cl. 128-79.
Burdick Corporation, The: See—
Dominy, Francis I., 3,648,689.
Partridge, Leslie W., 3,636,449.
Burdick, Donald R., 1/2 to Pater, Donald H. Teaching device. 3,650,044, 3-21-72, Cl. 35-9.
Burdick, Thomas H., to Baxter Laboratories, Inc. Conservation of transient pulses in analog to digital conversion. 3,689,879, 9-5-72, Cl. 340-347.0ad.
Burdige, Joseph: See—
McFarlane, Samuel B., Jr.; Burdige, Joseph; and Alexander, Norman E., 3,645,614.
Burdwood, Howard A. Method and apparatus for use in inflating tennis and other balls. 3,699,739, 10-24-72, Cl. 53-7.000.
Bureau de Recherches Geologiques et Minieres: See—
Cohen-Alloro, Richard; and Grassaud, Jean, 3,659,711.
Cohen-Alloro, Richard; Cuvillier, Roger; and Grassaud, Jean, 3,703,237.
Burek, John A., Jr.: See—
Borzoni, John J.; Swichard, Edward A.; and Burek, John A., Jr., 3,699,500.
Burelle, Pierre; and Engelhardt, Jean Alfred, to Societe anonyme dite: Cefilac. Process for manufacturing tight seals, and seals obtained by this process. 3,660,184, 5-2-72, Cl. 156-62.2.
Burens, James H., to North Electric Company. Power supply circuit arrangement utilizing regenerative current feedback. 3,683,208, 8-8-72, Cl. 307-296.000.
Buresh, Francis M.; Nisenson, Stanley M.; Lipscomb, Walter P.; and Saich, Anthony M. Non-woven process. 3,704,191, 11-28-72, Cl. 156-148.000.
Buresh, John W., II, to Drill Carrier Corporation. Automatic braking mechanism. 3,704,757, 12-5-72, Cl. 180-6.480.
Burfoot, Walter S. Thread milling attachment for engine lathes. 3,704,648, 12-5-72, Cl. 90-11.620.
Burford, Robert G.: See—
Kruger, Gunther; and Burford, Robert G., 3,658,855.
Burg, Karlheinz; Cherdron, Harald; Lehmann, Heinz; and Lutz, Eleonore, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Bonding with thermoplastic polyacetal adhesives. 3,639,192, 2-1-72, Cl. 156-327.
Burg, Karlheinz; Gutweiler, Klemens; and Hermann, Hans Dieter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Trioxane copolymers. 3,639,349, 2-1-72, Cl. 260-67.
Burg, Karlheinz; and Cherdron, Harald, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyoxymethylenes containing a butadiene polymer and a vinyl aromatic hydrocarbon or a methyl methacrylate polymer. 3,642,940, 2-15-72, Cl. 260837.
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Burg, Kenneth E., to Texas Instruments, Incorporated. Marine acoustic velocity profiling. 3,644,882, 2-22-72, Cl. 340-7.
Burg, Raymond H.: See—
Lohmann, Arthur M.; Spurbeck, King; and Burg, Raymond H., 3,706,282.
Burgard, Ernst; and Gross, Jurnjochen, to International Standard Electric Corporation. Multiple holding arrangement. 3,669,279, 6-13-72, Cl. 211-41.000.
Burgarella, John P., to Polaroid Corporation. Photographic camera having backup system for automatic film speed insertion. 3,631,776, 1-4-72, Cl. 95-10.
Burgarella, John P., to Polaroid Corporation. Exposure control system. 3,641,891, 2-15-72, Cl. 95-10.
Burgarella, John P., to Polaroid Corporation. Exposure control system with automatic adjustment for flash synchronization. 3,659,509, 5-2-72, Cl. 95-11.5.
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Burgdorf, Jochen: See—
Beller, Hans Albert; and Burgdorf, Jochen, 3,658,160.
Beller, Hans Albert; and Burgdorf, Jochen, 3,661,231.
Burgdorf, Marten: See—
Kienzler, Wolfgang; and Burgdorf, Marten, 3,670,554.
Burge, Joseph C., to General Electric Company. Actuation ring for variable geometry compressors of gas turbine engines. 3,685,920, 8-22-72, Cl. 415-147.000.
Burger, Donald A.: See—
Baldwin, Walton B.; and Burger, Donald A., 3,675,906.
Burger Eisenwerke Aktiengesellschaft: See—
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Jung, Anton Ladislaus; and Ledwon, Erhard, 3,656,469.

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Krantz, John C., Jr.; and Burgison, Raymond M., 3,639,638.
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Zagotta, Joseph L.; Wallace, R. Eugene; and Burlington, Donald A., 3,680,737.
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Abe, Fujio; and Crawford, Clifford R., 3,648,026.
- Backer, Leonard N., 3,678,516.
- Bryant, Michael I.; and Jones, Charles E., 3,695,326.
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- Butler, Vaughn H., 3,667,257.
- Daniel, Winfield C., 3,635,053.
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- Fusco, Vito A.; Ogden, Charles T.; and Illman, Walter F., 3,668,852.
- Ganong, William L., Jr.; Bryant, Furnie S.; Neill, Henry R.; and Davies, Robert G., 3,648,027.
- Hinton, Everett H., Jr.; and Avery, Larry E., 3,650,801.
- Illman, Walter F., 3,634,972.
- Jinnette, Allen J., 3,671,179.
- Joy, Raymond D., 3,648,650.
- Layton, Irving, 3,635,259.
- MacDonald, John Clifford, 3,647,587.
- Maggiolo, Allison; Hinton, Everett H., Jr.; and Smith, Ray S., 3,632,422.
- McGee, James Newton; and Griffin, Thomas Franklin, 3,679,516.
- Neill, Henry R.; and Davies, Robert G., 3,660,972.
- Reid, James Paul, Jr.; and Deskins, David S., 3,703,773.
- Upshur, Littleton; Franklin, Burton P.; Roane, Asa E.; and Wang, Kenneth Y., 3,650,419.
- Zane, Edward Robert, Jr., 3,643,825.
- Burlis, Norbert W.; and Talonn, Daniel A., to Sherwood Medical Industries Inc. Extruder apparatus and accumulator. 3,674,404, 7-4-72, Cl. 425-326.000.
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Fletcher, John Vincent; and Martin, Dennis, 3,686,289.
- Jones, Kenneth; Joscelyne, Eric H.; and Burmah Oil Trading Limited, 3,682,781.
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- Burmeister, Karl Heinz and said Hoenselaer, Wilhelm assor. to: See—
Burmeister, Karl-Heinz; Hoenselaer, Wilhelm; and Moes, Lothar, 3,642,265.
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- Burmeister, Warren L. Cleaning reminder. 3,633,294, 1-11-72, Cl. 40-2.
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Dyskin, Ernest Matveevich; Raevsky, Georgy Vladimirovich; Biletsky, Semen Mikhailovich; Burmenko, Eduard Jurievich; Grosman, Erikh Ruvimovich; Satanovsky, Abram Lazarevich; Kremnev, Oleg Alexandrovich; Zhuravlenko, Viktor Yakovlevich; and Protyshein, Boris Nikolaevich, 3,687,434.
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Chch, Ernest L.; Bowden, Wade R., Jr.; and Anderson, James D., 3,661,029.
- De Luca, Carlo Bruno; and Mallanik, Allan, 3,656,057.
- Feldberg, Leonard H., 3,652,977.
- Lapham, Thomas B.; and Feldberg, Leonard H., 3,663,920.
- Russakoff, Robert S.; De Luca, Carlo Bruno; Schenker, Henry; Henchcliffe, Alfred L.; and Williams, Dennis C., 3,694,694.
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Rightmire, Glenn K.; Bossler, Alfred T.; Burnell, Arthur E.; and Helms, August R., 3,706,330.
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Herz, Arthur H.; Burness, Donald M.; and Seus, Edward J., 3,706,562.
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Stack, Eugene V.; and Burnett, Edward L., 3,691,619.
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Burnett, Ernest G.; and Cates, Charles S. (said Cates assor. to), 3,680,870.
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Konrad, Marion G.; Erickson, John W.; and Burnett, Frank, 3,636,887.
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Suchomel, Michael; Tipton, William; and Burnett, James H., 3,665,441.
- Burnett, Marvin D. Automatic disconnect for a vehicular battery. 3,703,617, 11-21-72, Cl. 200-61.500.
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Johnsen, Vernon L.; and Burnett, Raymond S., 3,683,939.
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Schultz, Harold B.; Fulmer, Keith H.; and Burnett, Richard T., 3,677,607.
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Horsley, Geoffrey Winton; and Burnett, Ronald Cyril, 3,641,227.
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- Burney, Ivan T., to Westinghouse Electric Corporation. Washer mechanism for electrostatic precipitator. 3,704,571, 12-5-72, Cl. 55-118.000.
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Reichhelm, Robert, 3,632,284.
- Reichhelm, Robert; and Morrison, Albert, Jr., 3,705,784.
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Vlach, John J.; Baker, James B.; Burnham, Edward H.; Lavander, Edward J.; and Schluntz, Gary L., 3,649,114.
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Baker, Slade H., 3,633,826.
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Yate, Reginald W., 3,639,106.
- Burnop, Victor C. E. Colloidal dispersions. 3,644,106, 2-22-72, Cl. 44-51.
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Jones, James F., 3,632,725.
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Slator, Damon T.; and Burns, Albert L., Jr., 3,694,008.
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Fitzpatrick, John D.; Sharp, Harold L.; and Burns, Bernard, 3,645,149.
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Lubowitz, Hyman R.; Wilson, Edgar R.; Jones, John F.; Burns, Eugene A.; and Braswell, Troy F., 3,632,428.
- Lubowitz, Hyman R.; and Burns, Eugene A., 3,635,891.
- Lubowitz, Hyman R.; Kendrick, William P.; Jones, John F.; Thorpe, Richard S.; and Burns, Eugene A., 3,647,529.
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Boleky, Edward Joseph; and Burns, Joseph Richard, 3,646,666.
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- Burns, Joseph Richard, to RCA Corporation. Memory subsystem array. 3,701,984, 10-31-72, Cl. 340-173.00r.
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Hook, Melvin S., 3,676,619.
- Burns, Marvin: See—
Marcum, Alfred L., Jr.; Burns, Marvin; and Rodzen, Richard A., 3,705,426.
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- Burns, Robert S.: See—
Follstaedt, Donald W.; and Burns, Robert S., 3,635,391.
- Burns, Simon Pierce, to Jefferson Chemical Company, Inc. Chlorinated benzene production. 3,655,784, 4-11-72, Cl. 260-650.
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- Buro Patent AG: See—
Wesener, Erich, 3,636,883.
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- Burr, John F. Hoist conversion unit for small tractors. 3,669,410, 6-13-72, Cl. 254-139.100.

Burr Oak Tool & Gauge Company: See—
Franks, Newell A., 3,692,219.

Burr, Robert C.: See—
Jones, Duane A.; Fanta, George F.; and Burr, Robert C., 3,669,915.

Burr, Robert Page, to Photocircuits Corporation. Electric wiring assemblies. 3,646,572, 2-29-72, Cl. 174-68.5.

Burr, Robert Page, to Photocircuits Corporation. Wire scribed circuit boards and method of manufacture. 3,674,914, 7-4-72, Cl. 174-68.500.

Burr-Ban Tool Service Company: See—
Kubicek, Louis A., 3,658,435.
Kubicek, Louis A., 3,661,473.

Burr-Brown Research Corporation: See—
Koerner, Henry, 3,668,428.

Burrage, Benjamin S.; and Blair, George S., to Gerrard Company Ltd., mesne. Roller slat conveyor. 3,675,760, 7-11-72, Cl. 198-183.000.

Burrage, Robert Graham, to Lucas, Joseph, (Industries) Limited. Apparatus for function generation by linear interpolation. 3,649,825, 3-14-72, Cl. 235-197.

Burrell, Addie M.: See—
Burrell, Dean Wm.; and Burrell, Addie M., 3,638,890.

Burrell, Dean Wm.; and Burrell, Addie M. Holder for a handbag and complementary wearing apparel. 3,638,890, 2-1-72, Cl. 248-215.

Burrell, Dean Wm.; Costello, Paul A.; and Costello, Robert C. Holder for light bulbs. 3,666,113, 5-30-72, Cl. 211-26.

Burrell, Frank C., to General Motors Corporation. Transmission control. 3,648,537, 3-14-72, Cl. 74-477.

Burrell, Gary L., to King Radio Corporation. Navigation receiver/communications transceiver and frequency synthesizer associated therewith. 3,696,422, 10-3-72, Cl. 343-100.000.

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Burress, George T., to Mobil Oil Corporation. Isomerization of pseudocumene. 3,637,880, 1-25-72, Cl. 260-668.

Burress, George T.; and Willis, James L., Jr., to Mobil Oil Corporation. Purifying and milling terephthalic acid. 3,679,741, 7-25-72, Cl. 260-525.000.

Burress, William W.: See—
Broome, Marshall B.; and Burress, William W., 3,679,971.

Burriat, Jean; and Du Fort, Philippe, to Degremont, Societe Generale d'Epuration et d'Assainissement. Method and apparatus for the continuous regeneration of ion exchange resins. 3,650,948, 3-21-72, Cl. 210-33.

Burridge, Robert E.: See—
Beury, James Prescott, III; and Burridge, Robert E., 3,673,868.
Kamenir, Melvin; and Burridge, Robert E., 3,678,218.

Burron Medical Products, Inc.: See—
Burke, George K.; and Raines, Kenneth, 3,638,650.
Burke, George K.; and Raines, Kenneth, 3,640,275.

Burroughs Corporation: See—
Atkinson, Robert J., 3,656,242.
Bader, Clifford J.; and Branco, Richard P., 3,675,113.
Balogh, Edward, Jr., 3,638,198.
Balogh, Edward, Jr.; Cook, Daewen J.; Bube, Carl E.; and Airhart, Robert V., 3,688,263.
Beachner, Robert W., 3,693,473.
Beery, Jack, 3,635,465.
Beery, Jack, 3,691,397.
Behr, Michael I., 3,646,535.
Behr, Michael I.; and Smith, Robert A., 3,683,273.
Behr, Michael I.; and Carr, Allan E., 3,686,682.
Behr, Michael J., 3,686,649.
Berry, Jack; and Luo, Zong-Shyong, 3,654,816.
Berry, Jack; and Templeton, William B., 3,659,524.
Billawala, Shahbuddin A., 3,633,189.
Billawala, Shahbuddin A., 3,657,710.
Billawala, Shahbuddin A., 3,678,482.
Birchmeier, Hans P., 3,633,163.
Bittmann, Eric E., 3,633,188.
Bock, Robert V.; Rehhauser, Frederick; Earnest, Elmer Dean; Gerbstadt, Frederick H.; and White, James A., 3,654,621.
Bovett, Duane E., 3,703,707.
Bradshaw, Robert S.; Golden, Donald M.; and Shapiro, Marvin, 3,648,839.
Branco, Richard P.; Sprude, Edgar O.; and Diener, Albert W., 3,651,447.
Brenner, Leonard C., 3,697,870.
Brinning, Earl E., 3,632,991.
Brinning, Earl E., 3,691,352.
Brunett, Peter Frank, 3,667,334.
Bumgardner, Donald L., 3,633,841.
Burman, Per Aron; and Drew, Harold E., 3,673,384.
Burman, Per Aron; Goldschmied, Sandor F.; and Sharma, Mahesh C., 3,684,151.
Calaway, Ward M., 3,688,211.
Calaway, Ward M., 3,688,213.
Calaway, Ward M., 3,691,474.
Caras, Bernard; and Ogle, James A., 3,654,507.

Caras, Bernard, 3,654,508.
Caras, Bernard, 3,683,222.
Caras, Bernard, 3,684,909.
Caras, Bernard, 3,699,376.
Caras, Bernard, 3,700,946.
Carlson, Carl B.; McKeeman, William M.; and Price, William C., 3,699,528.
Cassidy, Carl R., 3,663,757.
Chekroun, Rene; and Ragot, Jean-Calude, 3,652,826.
Christou, Kyriakos, 3,681,783.
Cola, Rudolph A., 3,704,386.
De Santis, Alfred J.; Beers, Le Roy W.; White, James A.; and Moysey, John A., 3,680,058.
Dodds, Thomas J., Jr.; Eagleson, Clegg; and Gibson, Harold F., 3,648,245.
Doughty, Frederic C., 3,652,973.
Dreimanis, Herbert V.; Spisz, Albert S.; Merlino, Eugene L., Jr.; and Ellis, Jonas, 3,664,481.
Eisenberg, Mark F., 3,673,461.
Ekstrand, James, 3,698,821.
Faber, Ulbe, 3,651,473.
Farnham, Norman W.; Mueller, William J.; and Gorall, Donald J., 3,640,219.
Faulkner, John P., 3,634,047.
Faulkner, John P., 3,637,471.
Feldman, Osias, 3,665,492.
Findlay, Campbell; and McQuade, Thomas, 3,661,077.
Findlay, Campbell, 3,677,486.
Frederick, Harold M.; and Nicol, Edward A., 3,663,010.
Frederick, Harold M., 3,675,876.
Frederick, Harold M.; and Sims, Dewey M., Jr., 3,704,820.
Funk, John W.; and Lakhani, Kishor M., 3,670,647.
Funk, John W., 3,693,856.
Fussell, Richard L., 3,659,208.
Fussell, Richard L., 3,679,969.
Fussell, Richard L., 3,693,028.
George, David J.; and Iwan, Wilfred D., 3,695,767.
Gerber, Johannes F.; and Cola, Rudolph A., 3,668,366.
Glaser, David, 3,682,544.
Glaser, David, 3,689,910.
Glaser, David, 3,693,046.
Glaser, David, 3,701,916.
Glaser, David, 3,701,924.
Gleim, Ralph A.; and Groom, Robert G., 3,686,650.
Goodale, Donald M., 3,654,628.
Gosnell, Earl J., 3,645,204.
Gosnell, Earl J.; and Taylor, Jerry H., 3,675,572.
Grabl, Sebastian E., 3,705,337.
Grabl, Sebastian E., 3,648,950.
Griggs, John O., Jr.; Radcliffe, Arthur J., Jr.; and Matouka, Michael F., 3,643,077.
Groom, Robert G.; and Brimm, Collen K., 3,696,351.
Gyi, Ko Ko, 3,641,527.
Hain, Eugene T., 3,661,256.
Hanson, Lawrence G.; and Bock, Robert V., 3,697,735.
Hauck, Erwin Arthur; and Vigil, Jacob F., 3,639,909.
Hepner, Neal, 3,648,394.
Hepner, Neal, 3,655,309.
Hepner, Neal; and Williamson, Albert C., 3,683,802.
Hepner, Neal, 3,704,630.
Hoffman, Paul R., 3,662,970.
Holz, George E.; and Ogle, James A., 3,683,364.
Holz, George E., 3,683,371.
Holz, George E., 3,687,513.
Holz, George E., 3,694,693.
Houghton, Frank A.; and Yesowich, Thomas N., 3,680,853.
Houston, John B., 3,634,835.
Hunter, James R.; Lazzarotti, Sebastian James; and Mann, Abe, 3,674,143.
Hunter, James R.; Dinerman, Bernard B.; Mann, Abe; and Schroeder, Franklin T., 3,696,946.
Hynes, Donald P.; and Clopton, William H., 3,633,164.
Jorgensen, Arnold J.; Bewley, Lawrence L.; and White, Kenneth H., 3,680,005.
Kauffman, Samuel L., 3,671,919.
King, Chia-Cheng; Jorgensen, Arnold J.; and Behr, Michael I., 3,696,255.
Kjos, Magne J., 3,688,956.
Kjos, Magne Jarle, 3,645,471.
Klehm, William G., Jr., 3,693,131.
Kondur, Nicholas, Jr., 3,643,774.
Kondur, Nicholas, Jr., 3,651,917.
Kondur, Nicholas, Jr., 3,685,041.
Kondur, Nicholas, Jr.; and Mack, Ronald H., 3,693,545.
Krause, Peter L., 3,653,009.
Krause, Peter L., 3,657,732.
Kronies, Reinhard K.; and Hansen, Iver C., 3,671,940.
Kruklitis, Karlis, 3,668,634.
Kruklitis, Karlis, 3,699,430.
Kupsky, George A., 3,634,720.
Kupsky, George A., 3,644,925.

Kupsky, George A., 3,648,093.
Kupsky, George A., 3,701,917.
Locke, George William, 3,668,431.
Logan, William A.; Holmes, Richard M.; Denny, William M.; Mahon, Michael J.; Skalski, Stephen, III; Henige, Gerald L.; and Bedekar, Shreekant, 3,686,641.
Looschen, Floyd W., 3,668,644.
Looschen, Floyd W., 3,691,555.
Lund, George E., 3,673,438.
Mack, Ronald H.; Kondur, Nicholas, Jr.; and Mitchell, James A., 3,667,383.
Mack, Ronald H.; Wilczewski, Robert H.; and Kondur, Nicholas, Jr., 3,703,948.
Maloney, Thomas C., 3,651,364.
Maniar, Prakash N., 3,671,287.
McKissick, John A.; and McGregor, Arvin D., 3,675,201.
Miller, Leo H.; and Colegrove, James A., 3,677,059.
Naeyaert, Roger S., 3,689,846.
Narang, Chander K., 3,688,273.
Nelson, Robert D., 3,704,515.
Nicol, Edward A.; and Frederick, Harold M., 3,704,793.
Paige, Walter Griffin, 3,687,361.
Pedersen, John H.; and Bedford, Michael J., 3,668,649.
Preston, Norman H., 3,692,189.
Price, William Chandler; and Billard, Stephen Lane, 3,659,272.
Price, William Chandler; Hauck, Erwin A.; and Vigil, Jacob F., 3,693,161.
Quitogue, Virgilio J., 3,696,353.
Rech, Jakob, 3,667,268.
Rehhauser, Frederick V.; Earnest, Elmer Dean; Bock, Robert V.; Gerbstadt, Frederick H.; and Monek, James J., 3,665,421.
Reynolds, Robert J.; and Quiogue, Virgilio J., 3,668,665.
Reynolds, Robert J., 3,646,533.
Sanner, Gary L.; and Hebel, Charles B., 3,701,971.
Sciuchetti, Larry L., 3,689,897.
Shah, Gautham C., 3,647,128.
Shesser, Arthur B., 3,703,657.
Sniderman, Albert, 3,658,163.
Sniderman, Albert, 3,667,384.
Stansell, Alpheus F.; and Bennett, Eugene E., 3,678,480.
Tackett, Raymond W., 3,673,451.
Terbruggen, Paul L.; and Caspari, Georg K., 3,660,640.
Townsend, Guy A., 3,635,466.
Trost, Joseph C.; Bock, Robert V.; Gerbstadt, Frederick H.; Graham, William J.; Miles, Wilson D.; and Questa, Charles R., 3,675,209.
Tuller, Elry D., 3,705,347.
Wallace, Harry L.; and Williams, Richard M., 3,636,521.
Wallace, Harry L., 3,636,780.
Wallace, Harry L., 3,677,452.
Wallace, Harry L., 3,704,666.
Walter, Allan F., 3,662,456.
Weber, Gunter R.; Bickel, Charles E.; and Krueger, Richard W., 3,660,821.
Werner, John R., 3,665,404.
Wilson, Roy A., 3,680,055.
Wolfe, Fred G., 3,674,936.
Wollum, James E.; Rawlings, Robert L.; and Davidson, James Clark, 3,646,519.
Zopff, Thomas E., 3,678,223.

Burroughs, Jack E.: See—
Campbell, William B., Jr.; Burroughs, Jack E.; and Cochran, Joe K., Jr., 3,638,243.

Burroughs, Jerome C. Vehicle towed rotary mower. 3,657,866, 4-25-72, Cl. 56-15.5.

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Burroughs, Thomas C.: See—
Arterbury, Bryant P.; and Burroughs, Thomas C., 3,648,777.

Burroughs Wellcome & Co. (U.S.A.) Inc.: See—
Barrett, Paul Anthony, 3,674,873.
Bauer, Denis J., 3,636,226.
Cresswell, Ronald M.; Mentha, John W.; and Seaman, Russell, 3,682,957.
Cresswell, Ronald M.; Mentha, John W.; and Seaman, Russell L., 3,697,512.
Cresswell, Ronald Morton; and Mentha, John William, 3,671,564.
Elion, Gertrude B.; and Strelitz, Robert A., 3,666,856.
Harfenist, Morton; and Bautzly, Richard, 3,694,556.
Phillips, Arthur P.; and Burrows, Robert B., 3,641,012.
Roth, Barbara; and Strelitz, Justina, 3,692,787.
Stewart, George Alexander, 3,657,425.

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Burrows, Merwyn L.; and Furby, Neal W., to Chevron Research Company. Low alkali metal content hydraulic fluids and their preparation. 3,649,721, 3-14-72, Cl. 260-990.

Burrows, Stanley E.: See—
Schwan, Thomas J.; Burrows, Stanley E.; and Butterfield, James L., 3,681,349.

Burrows, Alan A.; and Lehde, Henry C., to McDonnell Douglas Corporation. Pulse coded vehicle guidance system. 3,648,229, 3-7-72, Cl. 340-26.

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Burrows, Clinton A., Jr. Modular fence construction. 3,698,692, 10-17-72, Cl. 256-19.000.

Burrows, Harold George; and Ingham, Philip Brierley, to Imperial Chemical Industries Limited. Dyeable polyamides containing polystyrene sulfonic acid. 3,665,054, 5-23-72, Cl. 260-857.

Burrows, Robert B.: See—
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Burrows, Robert K. Apparatus for watering animals. 3,683,956, 8-15-72, Cl. 137-408.000.

Burrows, Roy: See—
Beech, Austin Sidney; and Burrows, Roy, 3,664,470.

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Burstein, Norman, to Conveyor Heat Products Corporation. Conveyor belt tensioning device for tunnel cooker. 3,648,825, 3-14-72, Cl. 198-195.

Burstrom, Bertil Ingvar. Self-indicating target with slidable target sections. 3,633,911, 1-11-72, Cl. 273-102.1.

Burstrom, Martin; and Nilsson, Jan, to Allmanna Svenska Elektriska Aktiebolaget. Hydrostatic extrusion of compound material. 3,654,687, 4-11-72, Cl. 29-421.

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Burt, F. N., Company, Inc.: See—
Baglio, James P., 3,642,273.
Rosenburg, Charles W., Jr., 3,633,815.

Burt, Harold S., to Conveyor Systems, Inc. Article positioning apparatus for roller conveyors. 3,642,117, 2-15-72, Cl. 198-38.

Burt, John, to Deutsch Fastener Corporation. Fastener with floating nut. 3,640,327, 2-8-72, Cl. 151-41.74.

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Neer, Clifford H., 3,648,823.

Burt, Patrick V., to Monsanto Chemicals Limited. Production of foamable resins. 3,696,060, 10-3-72, Cl. 260-2.50b.

Burt, Ralph E.: See—
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Burt, Warren T.; and Hoffman, Herman J., to United States of America, Navy. Television system for terrain surveillance. 3,668,308, 6-6-72, Cl. 178-6.60a.

Burtch, Alfred H.; and Buell, Halsey W., to Carborundum Company, The. Pad for disc sanders. 3,707,059, 12-26-72, Cl. 51-358.000.

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- Burtis, Stokes Fenimore, to RCA Corporation. Process for forming an isolated circuit pattern on a conductive substrate. 3,704,207, 11-28172, Cl. 204-15.000.
- Burtis, Wilson A., to De Laval Turbine California, Inc. Tubing coupling. 3,647,246, 3-7-72, Cl. 285-114.
- Burtis, Wilson A.; and Omori, Thomas T. Articulated snowmobile vehicle. 3,664,446, 5-23-72, Cl. 180-5.
- Burtis, Winfield R., to Emhart Corporation. Pressure equalizing valve. 3,680,329, 8-1-72, Cl. 62-275.000.
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- Burton, Perry E., 3,640,235.
- Burton, Charles. Surgical light. 3,645,254, 2-29-72, Cl. 128-23.
- Burton, Charles. Production of focal brain lesions by inductive heating. 3,653,385, 4-4-72, Cl. 128-303.17.
- Burton, Charles G., to Chisholm-Ryder Company, Inc. Fruit harvesting machine for low plants. 3,648,447, 3-14-72, Cl. 56-330.
- Burton, Charles O.: See—
- Izzo, Henry J.; and Burton, Charles O., 3,694,231.
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- Mahr, Rene N.; Radoux, Henri Joseph; and Burton, Clement E., 3,662,696.
- Burton, Dennis Ernest, to Fisons Pest Control Limited. Poly chloro or bromo mucononitrile. 3,637,800, 1-25-72, Cl. 260-465.7.
- Burton, Dennis Ernest, to Fisons Limited. Fungicidal mucononitriles. 3,644,637, 2-22-72, Cl. 424-304.
- Burton, Derek Arthur, to Johnson, A., & Company (London) Limited. Electrolytic cells. 3,669,869, 6-13-72, Cl. 204-268.
- Burton, Duane C.: See—
- Heflin, Donald R., 3,662,795.
- Burton Electrochemical Co., Inc.: See—
- Baldwin, Philip C., 3,672,968.
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- Burton, Herbert O.; Reddy, Sudhakar M.; Sullivan, Daniel D.; and Tong, Shih Y., to Bell Telephone Laboratories, Incorporated. Random and burst error-correcting arrangement with guard space error correction. 3,638,182, 1-25-72, Cl. 340-146.1.
- Burton, Herbert O., to Bell Telephone Laboratories, Incorporated. Decoding method and apparatus for Bose-Chaudhuri-Hocquenghem codes. 3,648,236, 3-7-72, Cl. 340-146.1.
- Burton Instrumentation, Inc.: See—
- Burton, Jay E., 3,656,160.
- Burton, Jay E., to Burton Instrumentation, Inc. Downed-aircraft radio locator-beacon employing plural loop antennas. 3,656,160, 4-11-72, Cl. 343-702.
- Burton, John S.; Gilman, Samuel; Rothbart, Michael; and Whitney, Ronald L., to Terminal Data Corporation. Document camera system. 3,645,619, 2-29-72, Cl. 355-40.
- Burton, Michael Blaker: See—
- Welker, Harry Logue, Jr.; and Burton, Michael Blaker, 3,638,392.
- Burton, Paul E.: See—
- Wiese, Herbert K.; and Burton, Paul E., 3,671,590.
- Burton, Paul T.; Cole, Walter E.; Frassetto, Henry E., Jr.; Gibson, Robert G.; Greenberg, Allan; Handloff, Louis E.; and Radlinsky, Raymond, to International Business Machines Corporation. Microprogrammed common control unit with double format control word. 3,673,575, 6-27-72, Cl. 340-172.500.
- Burton, Perry E., to Burton & Noonan, mesne. Method and apparatus for cutting and hemming cloth lengths. 3,640,235, 2-8-72, Cl. 112-121.29.
- Burton, R. Edward: See—
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- Burton, Raymond V., Jr.; and Giachino, Eugene L., to Lockheed Aircraft Corporation. Method and means for leak detection. 3,683,675, 8-15-72, Cl. 73-40.700.
- Burton, Robert, to Avery Products Corporation. Label imprinting and applying machine and method. 3,655,492, 4-11-72, Cl. 156-541.
- Burton, Robert Edward, to Microphor, Inc. Separation of organic solids from waste liquids. 3,700,590, 10-24-72, Cl. 210-17.000.
- Burton, Robert R.: See—
- Boxer, Leo M.; and Boxer, Robert W., 3,703,974.
- Burton, Robert V., to Honeywell Inc. Hydraulic fluidic servoactuators. 3,648,564, 3-14-72, Cl. 91-3.
- Burton, Roy Harold: See—
- Baldwin, Tony Lewis; and Burton, Roy Harold, 3,646,745.
- Burton, William D. Omnidirectional horn loudspeaker. 3,649,776, 3-14-72, Cl. 179-115.5.
- Burtsev, Pavel Semenovich: See—
- Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Burtsev, Pavel Semenovich; Yanchevsky, Kazimir Stanislavovich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny oiseevich; and Khaidurov, Leonid Konstantinovich, 3,656,810.
- Burwell, Stanley J. Apparatus for disintegrating tires and the like. 3,658,267, 4-25-72, Cl. 241-301.
- Burwell, Wayne G.; and Quickle, Charles F., Jr., to United Aircraft Corporation. Liquid fuel gas dynamic mixing laser. 3,694,770, 9-26-72, Cl. 331-94.500.
- Burwell, Wayne Gregory: See—
- Bronfin, Barry Robert; Burwell, Wayne Gregory; and Meinzer, Richard August, 3,701,045.
- Burwen, Richard S. Dynamic noise filter having means for varying cutoff point. 3,678,416, 7-18-72, Cl. 333-17.000.
- Bury, Allen J., to Molex Products Company. Electrical connector assembly. 3,662,321, 5-9-72, Cl. 339-92.
- Bury, Allen J., to Molex Incorporated. Multi-conductor electrical socket and method of making the same. 3,668,615, 6-6-72, Cl. 339-206.00r.
- Burzan, Vernon J.: See—
- Hall, William D.; and Burzan, Vernon J., 3,677,623.
- Lee, Charles K.; and Burzan, Vernon J., 3,677,154.
- Burzan, Vernon J., to KMS Industries, Inc. Identification card locator assembly. 3,677,639, 7-18-72, Cl. 355-76.000.
- Burzinski, Ralph A. Wheeled foot-exercising device with hand grips. 3,672,670, 6-27-72, Cl. 272-79.00r.
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- Scheitel, Neal W., 3,698,464.
- Busam, Donald H., to Interlake Steel Corporation. Skid top lifter. 3,658,374, 4-25-72, Cl. 294-88.
- Busatto, Vinicio, to Minnesota Mining and Manufacturing Company. Photosensitive material for radiography. 3,705,807, 12-12-72, Cl. 96-84.00r.
- Busby, Edwin S., Jr., to Compex Corporation. Variable light transmitting filter for cameras. 3,700,314, 10-24-72, Cl. 350-314.000.
- Busby, Howard G. T., to Lodge-Cottrell Limited. Electro-precipitation. 3,686,825, 8-29-72, Cl. 55-5.000.
- Busby, Hubbard Taylor, Jr., to Martin-Marietta Corporation. Hono azo pyrazolone dyes having thiosulfate group. 3,639,386, 2-1-72, Cl. 260-163.
- Busby, Julian M.: See—
- Owen, Robert L.; and Busby, Julian M., 3,651,395.
- Busby, Llewellyn D.: See—
- Davidson, William E.; and Busby, Llewellyn D., 3,654,715.
- Busby, Lloyd H. Combination ladder and hoist apparatus. 3,690,282, 9-12-72, Cl. 114-43.500.
- Busby, Samuel J. Weighted whirling type exercising device. 3,679,204, 7-25-72, Cl. 272-81.000.
- Busby, Terence Stanley, to National Research Development Corporation. Glass furnaces. 3,684,262, 8-15-72, Cl. 263-40.00r.
- Busch, Bernhard; Funk, Hans; and Teitschik, Walter. Process for smooth operation of burner in production of acetylene-containing gas. 3,689,586, 9-5-72, Cl. 260-679.00r.
- Busch, Carl Wilhelm; and Scheer, Kurt, to Fried. Krupp Gesellschaft mit beschränkter Haftung. Apparatus for displaying bearing markers on a radar screen. 3,648,283, 3-7-72, Cl. 343-5.
- Busch, Claus Wyman, Jr., to American Cyanamid Company. Fire-retardant finish for nylon. 3,639,232, 2-1-72, Cl. 252-8.1.
- Busch, Edward G., to Adtronic Electronics, Inc. Digital translator. 3,649,823, 3-14-72, Cl. 235-155.
- Busch, Georg; and Wachter, Peter, to Verein zur Förderung der Festkörperphysik an der Edgenossischen Technischen Hochschule. Device for producing multi-color television images by magnetic field control of a particular luminescent screen. 3,697,688, 10-10-72, Cl. 178-5.40r.
- Busch, Gerhard: See—
- Breitschwerdt, Werner; Andres, Rudolf; and Busch, Gerhard, 3,671,994.
- Busch, Hans Jochen, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Multi-spooling machine with interchangeable units. 3,682,404, 8-8-72, Cl. 242-35.50r.
- Busch, Harry. Dressing device for the dressing of profile grinding wheels. 3,683,884, 8-15-72, Cl. 125-11.00r.
- Busch, Heinz F. K.: See—
- Bogenberger, Richard; Busch, Heinz F. K.; Kroy, Walter; and Mehnert, Walter E., 3,702,378.
- Busch, John F.: See—
- Rue, Charles V.; and Busch, John F., 3,686,800.
- Busch, Josef: See—
- Meeussen, Louis Achilles; Stievenart, Emile Frans; Schranz, Karl-Wilhelm; Busch, Josef; Froch, Siegfried; and Bruck, Herbert, 3,662,665.
- Busch, Karl: See—
- Brummer, Hans; and Busch, Karl, 3,665,439.
- Busch, Michael D., to Call-A-Computer, Inc., mesne. Message buffering communication system. 3,676,846, 7-11-72, Cl. 340-146.1ba.
- Busch, Norbert: See—
- Mauvernay, Roland Yves; Busch, Norbert; Moleyre, Jacques; and Simond, Jacques, 3,637,680.
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- Busch, Raymond W. Electric motor. 3,665,227, 5-23-72, Cl. 310-46.000.
- Busch, Theodore N., to Caswell Equipment Company, Incorporated. Signalling system. 3,653,025, 3-28-72, Cl. 340-323.
- Busch, Thomas W., to Appleton Papers, Inc., mesne. Method and apparatus for manufacture of dual coated sheet with pressure rupturable materials. 3,632,378, 1-4-72, Cl. 117-36.2.
- Busch, Thomas W., to Appleton Papers, Inc., mesne. Method for the manufacture of double coated sheets with pressure-rupturable materials. 3,705,049, 12-5-72, Cl. 117-36.900.
- Busch, Walter; Kramer, Heinz; Lind, Erwin; and Messner, Dieter, to Kalle Aktiengesellschaft. Process for coating the surface of a material. 3,697,303, 10-10-72, Cl. 117-37.0le.
- Busch, Walter; and Schwarzer, Franz, to Kalle Aktiengesellschaft. Process for the preparation of a semipermeable membrane from polymerized β -lactams unsubstituted at the nitrogen atom. 3,703,570, 11-21-72, Cl. 264-41.000.
- Busch, William Larry, to Cooden, Avery, School, Inc. Student learning spaces. 3,694,933, 10-3-72, Cl. 35-60.000.
- Busch, Wolfram: See—
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- Buschbom, Floyd E., to Van Dale Corporation. Adjustable discharge means. 3,651,910, 3-28-72, Cl. 193-17.
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- Buschbom, Floyd E.; Hansen, Glen D.; and Johnson, Roger L., to Van Dale Corporation. Livestock feeding apparatus. 3,675,758, 7-11-72, Cl. 198-110.000.
- Buschbom, Floyd E.; and Johnson, Roger L., to Veda, Inc. Material handling apparatus with diverter means. 3,695,234, 10-3-72, Cl. 119-52.00b.
- Buscher, Judy G. Face mask. 3,678,929, 7-25-72, Cl. 128-146.600.
- Buscher, Richard G., to Lear Siegler, Inc. Automatic control system with a digital computer. 3,688,099, 8-29-72, Cl. 235-153.000.
- Buschhoff, Max, to Schering A.G. Method of making hexaorganodiplumbanes. 3,671,561, 6-20-72, Cl. 260-437.00r.
- Buschman, Elmer W., 2/3 to Buschman, Kenneth and 1/3 to Price, William R. Electrostatic precipitator. 3,678,653, 7-25-72, Cl. 55-2.000.
- Buschman, Kenneth: See—
- Buschman, Elmer W., 3,678,653.
- Buschmann, Gerhard, to Jagenberg-Werke AG. Apparatus for braking, overlapping and stacking sheets of material. 3,684,277, 8-15-72, Cl. 271-46.000.
- Buschmann, Hans, to Telesco Brophey Limited. Sheath for umbrella. 3,670,749, 6-20-72, Cl. 135-33.00c.
- Buschmann, Klaus; and Meyer, Walter, to Siemens Aktiengesellschaft. Program control mechanism for a long distance communication exchange installation controlled by a concentratedly stored program. 3,636,522, 1-18-72, Cl. 340-172.5.
- Buschow, Kurt Heinz Jürgen; and Westendorp, Frans Frederik, to U.S. Philips Corporation. Method of manufacturing a permanent magnet. 3,701,695, 10-31-72, Cl. 148-103.000.
- Budiecker, Robert A.; Rapp, James E.; and Babcock, Clarence L., to Owens-Illinois, Inc. Mirror blank core and method of making. 3,661,546, 5-9-72, Cl. 65-33.
- Buse, Frederic W., to Ingersoll-Rand Company. Centrifugal pump having leakage collection and draining means. 3,680,976, 8-1-72, Cl. 415-110.000.
- Buser, Arnold S.: See—
- Braden, William D.; Marshall, Richard P.; Greenhorn, Richard J.; and Buser, Arnold S., 3,656,343.
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- Buser, Fritz, AG Maschinenfabrik: See—
- Thierstein, Hans, 3,699,885.
- Bush Boake Allen Limited: See—
- Curtis, Anthony John; Jaggars, Brian George; and Janes, John Francis, 3,647,847.
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- Bush, Clarence C., to United States of America, Army. Flexible cams. 3,680,406, 8-1-72, Cl. 74-368.0fs.
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- Bush, Donald M., to United States of America, Atomic Energy Commission. Thermal battery having a thermal reservoir pellet. 3,677,822, 7-18-72, Cl. 136-83.005.
- Bush, Elmer Crosby, to Associated Spring Corporation. Filter bag clamp. 3,653,103, 4-4-72, Cl. 24-270.
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- Bush, George L., to Bunker-Ramo Corporation, The. Device for providing controlled movement. 3,667,306, 6-6-72, Cl. 74-125.5.
- Bush, Harold Jesse, to Thomas & Betts Corporation. Stripping apparatus. 3,673,894, 7-4-72, Cl. 81-9.510.
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- Bush, James A.: See—
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- Bush, James S.; and Mason, Robert S. Method and apparatus for forming foam material. 3,665,792, 5-30-72, Cl. 83-1.
- Bush, John L.; and Milligan, Carl William, to Du Pont de Nemours, E. I., and Company. Process for preparing ionomers. 3,649,578, 3-14-72, Cl. 260-23.
- Bush Manufacturing Company: See—
- Taul, Everett G., 3,631,977.
- Bush, Richard P., to Midland Silicones Limited. Siloxanes compositions and processes thereof. 3,641,089, 2-8-72, Cl. 260-448.2.
- Bush, Richard P.; and Thomas, Bryan. Compounds containing silicon and nitrogen. 3,655,615, 4-11-72, Cl. 260-46.5.
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- Bush, Richard Paul; and Thomas, Bryan, to Dow Corning Limited. Organosilicon compounds containing silazane and siloxane linkages. 3,677,977, 7-18-72, Cl. 260-47.00r.
- Bush, Robert E.: See—
- Degelleke, Gerrit; and Bush, Robert E., 3,635,570.
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- Bush, Robert G.; and Hannon, Gilbert H., to Schreiber, L. D., Cheese Co., Inc. Weighing and labeling system. 3,650,773, 3-21-72, Cl. 99-171.
- Bush, Stanley E.; Olson, David T.; and Saltus, George E., to Bell Telephone Laboratories, Incorporated. Dial selective wideband intercommunication system. 3,649,761, 3-14-72, Cl. 179-2.
- Bush, Stanley E.; Crouse, Parker E.; and Saltus, George E., to Bell Telephone Laboratories, Inc. Key telephone system having wideband capability. 3,684,833, 8-15-72, Cl. 179-2.0tv.
- Bush, Stephen Frederick; Shires, Michael John; Johnson, Frank Williams; and Williams, Richard Anthony, to Imperial Chemical Industries Limited. Manufacture of adiponitrile. 3,707,547, 12-26-72, Cl. 260-465.800.
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- Bush, Walter M., to Eastman Kodak Company. Developers for diffusion transfer film units. 3,647,436, 3-7-72, Cl. 96-3.
- Bush, Walter R.: See—
- Ambler, Edward Curtis; Bush, Walter R.; and Scoville, Andrew E., 3,668,471.
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- Bushick, Ronald D., to Sun Oil Company. Isomerization of hydrindacenes. 3,637,882, 1-25-72, Cl. 260-668.
- Bushin, Leonid Mikhailovich: See—
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- Henschel, Werner, 3,650,511.
- Koller, Hans; and Frey-Portner, Urs, 3,704,573.
- Munch, Hans Joachim, 3,697,387.
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- Kimmel, Albert L., 3,677,988.
- McCarthy, Robert P.; and Matlock, Charles W., 3,674,620.
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- Perkins, Carl C., Jr., 3,657,188.
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- Perkins, Earl Stuart, 3,652,837.
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Foster, Richard N.; and Butt, John B., 3,674,666.
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Bol, Jan; Buttner, Hildegard; and Kuhn, Peter, 3,677,966.
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Muller, Donald C., 3,662,874.
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- Buyak, William P., to North American Philips Corporation. Timing circuit with multiple time constants and switching means to connect and disconnect said time constants selectively. 3,694,672, 9-26-72, Cl. 307-293.000.
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Manthey, Willic; and Schmitter, Heinz, 3,680,344.
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Buck, Homer G., 3,663,343.
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Kononov, Boris Leonidovich; Kildishev, Vasily Semenovich; Kaplunov, Vadim Borisovich; Tokarev, Vladimir Ivanovich; Spivak, Boris Volkovich; Byaly, Boris Ilich; Chigirinsky, Alexander Abramovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kariashkevsky, Pavel Yakovlevich; and Chereimov, Ivah Yakovlevich, 3,683,220.
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Douglas, Ormond S.; and Byrd, Warnell M., 3,690,724.
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Anderson, James J.; Byrd, Wendell M., Jr.; and Camacho, Vasco G., 3,706,821.
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Agnew, Frank R.; Byrne, Francis P.; Kaczmarek, Thomas D.; Kriege, Owen H.; Gainer, Gordon C.; and Luck, Russell M., 3,689,224.
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Klein, Hans-Christoff; and Byrne, James D., 3,639,009.
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Moore, Walter J.; Cusick, Richard T.; and Byrne, Michael D., Jr., 3,645,141.
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Stephens, Frank H., Jr.; Byrne, Paul B.; and Anderson, Edward P., 3,636,409.
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Twidall, William H.; and Byrnes, Mark K., 3,695,015.
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Endress, James W.; Byrns, Edson H.; and Anderson, Carl M., 3,667,860.
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Ostrovsky, Grigory Arkadievich; Orlovsky, Anatoly Georgievich; Nikonov, Vladimir Filippovich; Kalner, Veniamin Davydovich; Shklyarov, Isaak Nokhimovich; Stepin, Anatoly Loginovich; Bysink, Alexandr Moiseevich; Shepelyakovsky, Konstantin Zakharovich; and Smrnov, Stanislav Ivanovich, 3,655,466.
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Pugnaire, Jean-Pierre A., 3,646,809.
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United States of America, National Aeronautics and Space Administration, 3,678,685.
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Minich, Paul R., Jr.; and Shaver, Donald E., 3,687,156.
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Weisker, Alexander; and Smith, Raymond L., Jr., 3,696,954.
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Weisker, Alexander; and Smith, Raymond L., Jr., 3,695,463.
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Inoue, Mitsuo, 3,659,064.
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Keck, Dieter, 3,664,089.
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Killick, Herbert Percy, 3,639,074.
- C. R. Industries: *See*—
Harris, Joseph Warren, 3,691,877.
- C&S Security Devices Inc.: *See*—
Crane, Charles V., 3,656,110.
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Jacobitz, Harvey A., 3,693,497.
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Bankston, Earl F., 3,668,810.
- Cabanaw, Eldred J.: *See*—
Post, Carl A.; and Cabanaw, Eldred J., 3,666,828.
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Bellinger, Robert M.; and Cabbage, John T., 3,700,566.
- Cabe, Frank D.: *See*—
Azamber, Eugene C.; and Cabe, Frank D., 3,678,450.
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Million, Adolf; Million, Carol; and Cabelka, Iosif, 3,645,130.
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Yamanaka, Einemi, 3,653,754.
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Jocteur, Robert, 3,667,506.
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Schwartz, Frederic W., 3,706,004.
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Barrett, Robert G., 3,688,027.
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Morrison, John J.; and Morton, John, 3,662,227.
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Comte, Georges N., 3,687,782.
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Menashi, Jameel; and Troiano, Paul F., 3,647,685.
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Berghezan, Aurel I., 3,690,961.
- Herchenroeder, Robert Blanchard Herman, 3,639,116.
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Graham, Walton; Gardner, Sheldon; and Cabot, John, 3,657,693.
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Hnilicka, Eugene J.; and Cackley, George W., 3,680,929.
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Organ, Terrence John; Alderman, Leslie; Melley, Arthur; and Pratt-Johnson, William Henry, 3,634,106.
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Anton, Wink; and Williams, Robert J., 3,687,358.
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- Cadiou, Jean G., to Citroen S.A. Door stop means. 3,639,943, 2-8-72, Cl. 16-82.
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Farmer, Edwin B.; Cadle, Terence M.; and Lane, Martin S., 3,694,173.
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Potter, Basil E.; Bosworth, Theodore K.; Chisholm, John P.; and Cadzow, James A., 3,659,085.
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Kriellaars, Johannes Cornelius, 3,691,457.
- Tarry, Robert James; Kriellaars, Johannes C.; and Lord, Ronald D., 3,681,685.
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Demozay, Daniel; Caffiero, Rodolphe; and Pillon, Daniel, 3,639,619.
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- Caffier, Gaspar, to Metra Electronics Corporation. Splicing apparatus for splicing strip material, as film or magnetic tape. 3,694,294, 9-26-72, Cl. 156-507.000.
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Blance, Robert B.; Cahill, David R.; and Nachtel, Peter, 3,692,878.
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Meyers, Joseph A., III; and Cahill, Joseph A., 3,666,402.
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- Cortona, Alessandro; and Calano, Giuseppe, 3,641,269.
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- Coliz, James T.; and Meola, Robert R., 3,643,066.
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- Chamberlin, Richard M.; Emswiler, James L.; Calderwood, Andrew S.; and Stana, Regis R., 3,658,955.
- Stana, Regis R.; and Calderwood, Andrew S., 3,657,402.
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- Routson, Willis G.; and Caldwell, Albert L., 3,701,384.
- Caldwell, Deane B. Homopolar generator. 3,699,370, 10-17-72, Cl. 310-178.000.
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- Caldwell, Frederick C., 3,650,096.
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- Caldwell, Edward M.: *See—*
- Puster, Louis M.; and Caldwell, Edward M., 3,685,789.
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- Herzog, Arno Henry; Caldwell, James F.; Schmidt, John George; and Lim, Enghua, 3,636,618.
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- Jackson, Winston J., Jr.; and Caldwell, John R., 3,654,232.
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- Givens, Wyatt W.; Caldwell, Richard L.; and Mills, William R., Jr., 3,686,503.
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- Andersen, Harry M.; and Calfee, John D., 3,658,748.
- Gothard, Edwin S.; and Calfee, John D., 3,637,457.
- Calfee, Wendell: *See—*
- Billings, William W.; and Calfee, Wendell, 3,683,199.
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- Calgari, Seba: *See—*
- Sicilari, Francesco; Rossi, Pietro Paolo; Calgari, Seba; and Jacuone, Roberto, 3,700,631.
- Calgon Corporation: *See—*

- Boothe, Jerry E.; Hoover, Merwin F.; and Schiegg, Dallas L., 3,678,110.
- Clapham, Thomas Miller, 3,645,072.
- Flock, Howard George, Jr.; and Rausch, Emerson George, 3,655,552.
- Hager, Donald Gene; and Rizzo, Joseph Leo, 3,650,949.
- Hatch, George Birdseye, 3,668,094.
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- Hoover, Merwin Frederick; Sinkovitz, Gloria Di Marco; and Ruland, Andrew Martin, 3,668,138.
- Kleefeld, William E., 3,650,435.
- Lo Sasso, Ronald Alfred; and Rausch, Emerson G., 3,642,619.
- May, Kenneth Nathaniel; and Farr, Allison James, 3,689,283.
- Neuberger, Edmond Donald; and Junker, Thomas Joseph, 3,641,821.
- Ralston, Paul H., 3,661,608.
- Ralston, Paul Hotchkiss, 3,663,448.
- Rivers, Hubert M., 3,679,543.
- Slagel, Robert Clayton; and Bloomquist, Arnold Eugene, 3,654,994.
- Varveri, Fannie S.; Julia, Robert J.; and Hoover, Merwin Frederick, 3,639,208.
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- Hofer, Lawrence J. E.; Carpenter, David B.; and Thompson, Edward A., 3,689,404.
- Calhoon, Audra M.: *See—*
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- Calhoun, Julia W.: *See—*
- Steinhardt, Ralph G.; and Calhoun, Julia W., 3,687,518.
- Calhoun, Ray. Combined boat hook and lure retriever. 3,693,280, 9-26-72, Cl. 43-17.200.
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- Olcelli, Gian Battista; Caliari, Sergio; and Montessori, Giuseppe, 3,686,632.
- Califoam Corporation of America: *See—*
- Gentile, Carlos A., 3,654,735.
- Gentile, Carlos A., 3,695,128.
- California and Hawaiian Sugar Company: *See—*
- Prince, Richard N.; and Maylott, Asa O., 3,632,446.
- Schwer, Frederick W.; and Kean, Chester E., 3,655,442.
- California Auto Radio, Inc.: *See—*
- Tsuji, Tom T., 3,644,684.
- Tsuji, Tom T., 3,685,879.
- California Computer Products, Inc.: *See—*
- McCune, Clarence G.; Vincier, John C.; and Graves, Kenneth E., 3,667,668.
- Tanaka, Edward Y.; Cossaart, Darrel D.; and Edwards, Norman B., 3,673,680.
- Torres, Mario A., 3,672,599.
- California Computer Products, Inc., *mesne: See—*
- Hill, Armin J., 3,641,885.
- McInnis, Andrew M.; Ballard, Louis M.; Rogers, Waldo I.; Kramer, David C.; and Nielsen, Robert A., 3,639,990.
- California Injection Molding Co., Inc.: *See—*
- Etherington, Roger F., 3,677,680.
- California Institute of Technology: *See—*
- Bauman, Albert J., 3,692,669.
- Charlton, Kyle W., 3,638,397.
- Garmire, Gordon, 3,704,284.
- Holt, Norman I., 3,697,705.
- Lehner, Francis E., 3,685,011.
- Lovelock, James E., 3,638,396.
- Lovelock, James E., 3,690,835.
- Lovelock, James E., 3,701,632.
- Miller, Charles G.; and Bartera, Ralph E., 3,635,537.
- Moser, Billy G.; and Landel, Robert F., 3,651,008.
- Motta, Nathaniel, 3,643,419.
- Rembaum, Alan; and Hermann, Allen M., 3,641,470.
- Rembaum, Alan, 3,655,814.
- Rembaum, Alan, 3,700,603.
- California Institute Research Foundation: *See—*
- Hermann, Allen M.; Gutmann, Felix; and Rembaum, Alan, 3,660,164.
- Tsuei, Chang-Chyi, 3,644,863.
- California Instruments Co.: *See—*
- Thrap, Guy A., 3,694,745.
- California Metal Enameling Company: *See—*
- Penton, Hugh V.; and Dunphy, Gerald P., 3,704,535.
- California Pellet Mill Company: *See—*
- Gilman, Robert W., 3,679,343.
- California Portland Cement Company: *See—*
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- California R & D Center: *See—*
- Jones, Lawrence Temple; Schmidt, Gerald W.; and Smith, Jay, III, 3,640,019.
- Smith, Jay, III; Schmidt, Gerald W.; and Jones, Lawrence T., 3,701,216.
- Calin, Ion: *See—*
- Georgescu, Eugenia; Ghejan, Ion; Bugur, Victor; Zirna, Ion; Mazare, Theodora; Popescu, Elena-Lygia; Olteanu, Bujor; Marculescu, Nicolae; Filotti, Traian-Mircea; Barbul, Marius-Aurel; and Calin, Ion, 3,673,109.
- Calinog, Teodora A. Surgical drainage instrument. 3,703,899, 11-28-72, Cl. 128-347.000.
- Calisher, Jay V.; and Burbick, Ross E., to Wiggins, E. B., Inc. Closed system liquid transfer apparatus with pressure-sensitive shut-off. 3,662,793, 5-16-72, Cl. 141-198.
- Calisher, Jay V.; and Burbick, Ross E., to Wiggins, E. B., Inc. Liquid transfer apparatus with pressure-sensitive automatic shut-off nozzle. 3,674,061, 7-4-72, Cl. 141-198.000.
- Calkins Manufacturing Company: *See—*
- Calkins, Oscar C., 3,651,870.
- Calkins, Oscar C., 3,693,813.
- Calkins, Oscar C., to Calkins Manufacturing Company. Rod weeder. 3,651,870, 3-28-72, Cl. 172-44.
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- Call, Charles G.: *See—*
- Miller, Peter; and Call, Charles G., 3,688,298.
- Call, Henry M.; Crain, Norman Robert; Crain, William W.; Pollit, Gary L.; and Rea, Donald E., to Documentor Sciences Corporation. Point of origin document processor. 3,684,864, 8-15-72, Cl. 235-61.90a.
- Call, Sterling, to Circuit Equipment Corporation. Machine for cleaning printed circuit board. 3,691,582, 9-19-72, Cl. 15-77.000.
- Call-A-Computer, Inc., *mesne: See—*
- Busch, Michael D., 3,676,846.
- Callaby, Roy: *See—*
- Calligaris, Ennio; Callaby, Roy; and Rossello, Mario, 3,650,747.
- Callaghan, James I. Burglar alarm triggered by breaking of a magnetic circuit. 3,706,090, 12-12-72, Cl. 340-274.000.
- Callaghan, John D., to RCA Corporation. Antenna system for television reception within both the JHF and VHF television band of frequencies. 3,683,391, 8-8-72, Cl. 343-802.000.
- Callaghan, Joseph C., to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence. Cable control system. 3,679,180, 7-25-72, Cl. 254-172.000.
- Callahan, Francis Marc, to American Cyanamid Company. Mixed anhydride method of preparing peptides. 3,640,991, 2-8-72, Cl. 260-112.5.
- Callahan, Francis J., Jr., to Crawford Fitting Company. Tube coupling for large diameter tubes. 3,694,010, 9-26-72, Cl. 285-334.400.
- Callahan, Jack D. Copy camera. 3,674,366, 7-4-72, Cl. 355-55.000.
- Callahan, James J.; and Snow, John Proctor, to McCord Corporation. Lubricating apparatus. 3,693,757, 9-26-72, Cl. 184-7.00d.
- Callahan, James L.; Presson, Robert D.; and Miller, Arthur F., to Standard Oil Company, The. Process for prevention of catalyst hang-up in ammoxidation of olefins to unsaturated nitriles. 3,658,877, 4-25-72, Cl. 260-465.3.
- Callahan, John J.: *See—*
- Tiefenthal, Harlan E.; Jungermann, Eric; Miller, Eugene J., Jr.; and Callahan, John J., 3,674,879.
- Callahan, Michael J., Jr., to Texas Instruments, Incorporated. Solid state operational amplifier. 3,673,508, 6-27-72, Cl. 330-30.00d.
- Callan, Jerry C. Container and joint therefor. 3,651,975, 3-28-72, Cl. 220-4.
- Callan, John E., to Cities Service Company. Semi-vulcanized butyl rubber for sealant applications. 3,674,735, 7-4-72, Cl. 260-33.6aq.
- Callan, John E., to Cities Service Company. Self-curing sealant compositions. 3,704,196, 11-28-72, Cl. 156-306.000.
- Callan, John E., to Cities Service Company. Method of increasing the scorch life of butyl rubber. 3,704,274, 11-28-72, Cl. 260-33.6aq.
- Callander, George C.: *See—*
- Sheahan, Desmond F.; and Callander, George C., 3,699,916.
- Callanen, Oliver E., to Melpar, Inc. Motion system with three reciprocating actuators for flight simulation. 3,645,011, 2-29-72, Cl. 35-12.
- Callard & Bowser Limited: *See—*
- Waters, Peter Donald, 3,669,030.
- Calicut, Brain Charles: *See—*
- Ridgway, Peter Charles; and Calicut, Brain Charles, 3,634,837.
- Calle, Jose Luis Rodriguez. Drip tray for refrigerators. 3,662,912, 5-16-72, Cl. 220-9.

- Callendar, Max V.; and Cox, Victor J., to Pye Limited. Receiver for use with a direction finding or radar receiving system. 3,686,670, 8-22-72, Cl. 343-113.00r.
- Callender, Evelyn N.: *See—*
- Callender, Jack E.; Halbedel, Don Edward; Bagwell, Benjamin J.; Horning, James Leroy; Lissakers, Erik Axel; Long, Joseph Harold; and Schweitzer, Cameron C., 3,702,381.
- Callender, Jack E.; deceased (by Callender, Evelyn N.; administrator); Halbedel, Don Edward; Bagwell, Benjamin J.; Horning, James Leroy; Lissakers, Erik Axel; Long, Joseph Harold; and Schweitzer, Cameron C., to North Electric Company. Telephone switching system including toll service desk. 3,702,381, 11-7-72, Cl. 179-27.00f.
- Callera, Joseph, to Chemical Generators Inc. Chlorous acid production. 3,684,437, 8-15-72, Cl. 23-152.000.
- Callera, Joseph, to Chemical Generators Inc. Process of producing chlorine dioxide. 3,695,839, 10-3-72, Cl. 423-479.000.
- Callieri, Michele; Faraci, Giorgio; and Paracchini, Mario, to Bemberg S.p.A. Method for manufacturing yarn consisting of fibres and filaments. 3,672,147, 6-27-72, Cl. 57-157.00f.
- Calligaris, Ennio; and Rossello, Mario, to Societa per Azioni Ferrania. Electroless deposition of Ni or Co on light-generated Ag nuclei. 3,647,450, 3-7-72, Cl. 96-48.
- Calligaris, Ennio; Callaby, Roy; and Rossello, Mario, to Minnesota Mining and Manufacturing Company. Electroless deposition of Ni, Co, Cu or Fe metal and a Bi, Sb, Pb, Sn, Ti, W or Cr salt on an Au, Pt or Pd latent image. 3,650,747, 3-21-72, Cl. 96-48.
- Callighan, Robert H.; and Masciantonio, Philip X., to United States Steel Corporation. Process for the recovery of glyoxylic acid. 3,644,508, 2-22-72, Cl. 260-526.
- Callighan, Robert H.; and Masciantonio, Philip X., to United States Steel Corporation. Process for the preparation of glyoxylic acid methyl hemiacetal. 3,705,922, 12-12-72, Cl. 260-535.00r.
- Callihan, James M.: *See—*
- Bubb, Daniel F.; and Callihan, James M., 3,692,428.
- Callihan, Rudy B.: *See—*
- Cockrell, Darryl W.; and Callihan, Rudy B., 3,678,998.
- Callister, John David; and Carlie, Clayton George, to American Cyanamid Company. Nitration of phenol using recycle acid. 3,642,913, 2-15-72, Cl. 260-622.
- Calmac Manufacturing Corporation: *See—*
- MacCracken, Calvin D., 3,636,725.
- Calmes, Jean-Paul. Recoil device for rotary forging mill. 3,638,466, 2-1-72, Cl. 72-208.
- Calmic Engineering Company Limited: *See—*
- Huthwaite, John Alan, 3,662,474.
- Rogers, George A., 3,660,280.
- Calmic Limited: *See—*
- O'Hara, James; and Gibbins, Charles Lewis, 3,668,716.
- Calmon, Calvin; Heit, Allyn Harold; and Helfgott, Theodore. Method for the removal of colloidal suspensions and other pollutants from liquid wastes. 3,699,039, 10-17-72, Cl. 210-28.000.
- Calnan, James: *See—*
- Shield, Walter; Saggars, Michael John; and Calnan, James, 3,683,897.
- Calogero, William J.: *See—*
- Negersmith, Kent M.; and Calogero, William J., 3,679,367.
- Calor: *See—*
- Trouilhet, Maurice Marie Achille, 3,671,357.
- Caloric Corporation: *See—*
- Das, Nalini R.; and Strain, Edwin H., 3,689,194.
- Kemp, Wayne T., 3,645,248.
- Strain, Edwin H.; and Das, Nalini R., 3,660,792.
- Calottan AG: *See—*
- Haefeli, Hildegard, 3,639,045.
- Calsilox S.A.: *See—*
- Vrijma, Berend, 3,664,219.
- Vrijma, Berend, 3,695,129.
- Caltagirone, Saverio, to General Electric Company. Apparatus for starting and operating electric discharge lamps. 3,648,207, 3-7-72, Cl. 336-206.
- Caltagirone, Saverio, to General Electric Company. Apparatus and method for winding electrical coils. 3,648,506, 3-14-72, Cl. 72-206.
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- Calud, Romeo T., to Bucyrus-Erie Company. Dual stator induction motor torque sensor A.C. dynamometer. 3,638,480, 2-1-72, Cl. 73-134.
- Caludon Engineering Company Limited: *See—*
- Lancaster, James Kenneth; and Yates, David William, 3,680,439.
- Calundann, Gordon W., to Celanese Corporation. Acrylonitrile polymerization. 3,687,918, 8-29-72, Cl. 260-85.5es.
- Calusen, Victor H.; and Zweig, Arnold, to Simpson Timber Company. Apparatus for bonding continuous flexible strands coated with a thermoplastic adhesive to the surface of moving veneer strips. 3,669,804, 6-13-72, Cl. 156-544.000.
- Calvagna, James F.; and Baling, Roger A., to Community Bank, mesne. Control system for audio-visual devices connected by cables. 3,691,528, 9-12-72, Cl. 340-152.00r.
- Calvert, Alan Hilary: *See—*
- Wright, John Thomas Matthew; and Calvert, Alan Hilary, 3,684,405.
- Calvert, David W.: *See—*
- Smith, Leon; Calvert, David W.; Robert, Andre; and Viallet, Andre, 3,657,065.
- Calvert, Francis E.: *See—*
- Hoer, Ralph A.; and Calvert, Francis E., 3,649,293.
- Calvert, Rodney K.; Viescas, Arthur B.; and Fishback, Alton J., to Mead Corporation. The. Mechanism for lining a series of shells. 3,642,414, 2-15-72, Cl. 425-388.
- Calvert, Rodney K.; and Scott, Dale Keith, to Mead Corporation. The. Wire forming machine and method. 3,691,808, 9-19-72, Cl. 72-190.000.
- Calvert, Rodney K.; and Landrum, Charles Rabun, to Mead Corporation. The. Film heating system. 3,699,666, 10-24-72, Cl. 34-54.000.
- Calvet, Francisco Vancells, to Hilados Y Tintes Soler, S.A. Procedure for the dyeing of textile ribbons. 3,679,356, 7-25-72, Cl. 8-149.100.
- Calvi, Salvatore J.: *See—*
- Morrison, Douglas I.; and Calvi, Salvatore J., 3,697,165.
- Calvin, John N., to Combustion Engineering, Inc. Flow deflector for nuclear fuel element assemblies. 3,663,367, 5-16-72, Cl. 176-78.
- Calvin, Victor E.: *See—*
- Frick, Roy C.; Calvin, Victor E.; Sharpe, John C.; and Rowe, William Wallace, 3,686,054.
- Calvino y Teijeiro, Benito Jose, to Magrini Fabbrie Riunite Magrini-Scarpa e Magnano-M.S.M.-S.p.A. Blast orifice unit for self-blasting compressed gas electric circuit-breakers. 3,670,124, 6-13-72, Cl. 200-148.00r.
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- Calzaferri, Hans; Kunz, Werner; Schwemmer, Martin W.; and Wyler, Max, to Triatex International AG fur textile Forschung und Entwicklung. Method and apparatus for processing cellulose-containing textiles with the vapors from an azeotropic liquid comprising n acidic catalyst. 3,647,353, 3-7-72, Cl. 8-116.3.
- Cam Gears Limited: *See—*
- Adams, Frederick J., 3,645,542.
- Adams, Frederick J., 3,669,146.
- Adams, Frederick John, 3,645,296.
- Alderton, Howard Kenneth, 3,695,733.
- Goldsmith, Ronald, 3,688,374.
- Cam Rotors Limited: *See—*
- Prendergast, Charles Scott, 3,699,848.
- Cama, Gerardo, to Coltex, S.L. Apparatus for cleaning metallic parts. 3,675,666, 7-11-72, Cl. 134-105.000.
- Camacho, Salvador L., to Technology Application Services Corporation. Long arc column plasma generator and method. 3,673,375, 6-27-72, Cl. 219-121.00p.
- Camacho, Vasco G.: *See—*
- Anderson, James J.; Byrd, Wendell M., Jr.; and Camacho, Vasco G., 3,706,821.
- Camahort, Jose L.; and Gomez, Mario P., to Lockheed Aircraft Corporation. Boron nitride coated boron filaments. 3,634,132, 1-11-72, Cl. 117-169.
- Camardella, Giuseppe. Multiple coil winder. 3,658,269, 4-25-72, Cl. 242-7.09.
- Camardella, Giuseppe. Welding apparatus of wire terminals on electronic components. 3,663,789, 5-16-72, Cl. 219-79.
- Camardella, Giuseppe. Method and apparatus for finishing electric coils. 3,667,118, 6-6-72, Cl. 29-605.
- Cambio, Orlando D., Jr., to Abbott Laboratories. Lever opened sealed container. 3,667,638, 6-6-72, Cl. 215-32.
- Camboulives, Andre Alphonse Mederic Leon; Delonge, Jean-Claude Lucien; Cesson, Theophile Francois Le Maout; and Vandenbroucke, Alfred Jiles, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Device for damping the noise produced by a gs jet escaping from a duct. 3,687,222, 8-29-72, Cl. 181-33.0hc.
- Cambridge Chemical Products, Inc.: *See—*
- Mauthner, Thomas, 3,670,072.
- Cambridge Filter Corporation: *See—*
- Goulet, Roger T.; and Zednik, Ernest R., 3,698,984.
- Cambridge Instrument Company, Inc.: *See—*
- Weingarten, Irving R., 3,694,338.
- Cambridge Research and Development Group: *See—*
- Richardson, James E.; and Sherman, Lawrence M., 3,651,927.
- Cambridge Scientific Instruments Limited: *See—*
- Oatley, Charles W., 3,678,384.
- Van-Essen, Christopher Geoffrey; Schulson, Erland Maxwell; and Donaghy, Richard Hugh, 3,702,398.
- Cambridge Thermionic Corporation: *See—*
- Cox, Irvin W., 3,676,253.
- Walup, William B., 3,683,317.
- Cambridge Wire Cloth Company: *See—*
- Daringer, Ronald G., 3,658,099.
- Cambureau, Aurel: *See—*
- Schwartz, Robert; Manolache, Constantin; Tannenbaum, Marcel; Vasile, Gheorghe; Rey, Vasile; Sima, Constantin; and Cambureau, Aurel, 3,692,277.
- Camco, Incorporated: *See—*
- Current, James H.; and Kilgore, Marion D., 3,643,737.
- Current, James H., 3,645,335.
- Current, James H.; and Kilgore, Marion D., 3,661,207.
- O'Pry, Arthur F., 3,661,470.
- Watkins, Fred E.; and Tausch, Gilbert H., 3,672,397.
- Camdale Enterprises: *See—*
- Conforti, John W.; and Silvagi, Joseph, 3,665,912.
- Camdex, Inc.: *See—*
- Leich, Robert A., 3,678,799.
- Cameli, Nazzareno: *See—*
- Carbonaro, Antonio; Greco, Alberto; Asta, Gino Dall; and Cameli, Nazzareno, 3,699,088.
- Cameli, Nazzareno; Lingi, Paolo; and Valvassori, Alberto, to Goodrich, B. F., Company, The. Modified elastomeric ethylene/propylene copolymers and process for producing same. 3,651,009, 3-21-72, Cl. 260-41.
- Cameli, Nazzareno; Longi, Paolo; Valvassori, Alberto; and Parodi, Sandro, to Goodrich, B. F., Company, The. Vulcanizable ethylene/propylene copolymers and process for preparing same. 3,651,032, 3-21-72, Cl. 260-79.5.
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- Camelot Stone, Inc.: *See—*
- Sullivan, Wayne S., 3,700,516.
- Camenzind, Hans R.: *See—*
- Nelson, Carroll E.; Camenzind, Hans R.; and Youmans, Albert P., 3,683,491.
- Camenzind, Hans R., to Signetics Corporation. Process for making integrated circuit masks. 3,663,223, 5-16-72, Cl. 96-36.2.
- Camenzind, Hans R., to Signetics Corporation. Integrated video amplifier. 3,668,540, 6-6-72, Cl. 330-18.000.
- Cameo, Inc.: *See—*
- Lauster, Frederick L., 3,683,065.
- Camera, Jack: *See—*
- Clarke, Dudley S.; and Camera, Jack, 3,705,987.
- Camerik, Ferdinand, to U.S. Philips Corporation. Store read units. 3,638,048, 1-25-72, Cl. 307-299.
- Cameron, Alan William: *See—*
- Robinson, Trevor Howard; Cameron, Alan William; and Fitz, Philip Jonn, 3,662,189.
- Cameron, Alistair A., to General Motors Corporation. Seal ring pick-up support. 3,680,191, 8-1-72, Cl. 29-235.000.
- Cameron, Dan, Jr.: *See—*
- Kurek, Nicholas B.; Gruder, James F.; and Cameron, Dan, Jr., 3,651,517.
- Cameron, Donald P.: *See—*
- Beereboom, John J.; Cameron, Donald P.; and Stephens, Charles R., 3,647,479.
- Cameron, Douglas A.: *See—*
- Thayer, Arlie J.; and Cameron, Douglas A., 3,632,069.
- Cameron, Douglas H.; Moody, Roy A.; and Thayer, Arlie J., to Panduit Corporation. Mount for receiving and retaining a strap. 3,632,071, 1-4-72, Cl. 248-74.
- Cameron, Eric C., to Battelle Development Corporation, mesne. Silver recovery process. 3,632,336, 1-4-72, Cl. 75-83.
- Cameron, Eugene A., to Instronics Limited. Chart reading apparatus. 3,636,256, 1-18-72, Cl. 178-18.
- Cameron, Ewen, to Columbia Broadcasting System Inc. Apparatus for continuous contact printing. 3,664,738, 5-23-72, Cl. 355-87.
- Cameron, Frank L., to Westinghouse Electric Corporation. Current limiting fuse. 3,636,491, 1-18-72, Cl. 337-244.
- Cameron, Frank L., to Westinghouse Electric Corporation. Current limiting fuse. 3,705,373, 12-5-72, Cl. 337-160.000.
- Cameron, Gordon N. Hydraulically actuated chuck. 3,679,219, 7-25-72, Cl. 279-1.00q.
- Cameron Iron Works, Inc.: *See—*
- Allen, Herbert, 3,638,469.
- Allen, Herbert, 3,698,227.
- Baker, Gerald S., 3,677,353.
- Carman, Richard Jan, 3,696,288.
- Curlington, Wayne C.; Fisher, Edmund A.; and Taylor, William M., 3,688,840.
- Ellis, Frank V., 3,657,783.
- Jones, Marvin R., 3,646,962.
- Wedel, Alfred W., 3,677,575.
- Welch, Robert W., Jr.; Bolton, George H.; Oliver, John P.; and Wedel, Alfred W. (said Oliver and said Wedel assors. to), 3,658,366.
- Cameron Iron Works, Inc., mesne: *See—*
- Payne, Vivian H., 3,642,020.
- Cameron, James A.; Lanzafame, Joseph; and Mann, Leonard E., to General Dynamics Corporation. Method and apparatus for vertical torch oscillation inversely to current magnitude. 3,646,311, 2-29-72, Cl. 219-137.
- Cameron, John: *See—*
- Fotland, Richard A.; Straughan, Virgil E.; and Cameron, John, 3,658,533.
- Cameron Machine Company: *See—*
- Degelleke, Gerrit; and Bush, Robert E., 3,635,570.
- Cameron, Malcolm R. Therapeutic bath back brush and process of using same. 3,699,602, 10-24-72, Cl. 15-21.00d.
- Cameron, William M.; Mikiya, Toshio; and Matsumura, Mitsuma, to Nitto Kohki Company Limited. Fluid actuated tool having removable coil spring biasing means. 3,680,643, 8-1-72, Cl. 173-133.000.
- Cameron, William M., to Mitto Rohhi Company Limited, mesne. Governor for fluid driven motor having reciprocating elements in rotor. 3,684,411, 8-15-72, Cl. 418-15.000.
- Cameron-McIndoo Limited: *See—*
- Helland, Russell Earl, 3,650,588.
- Camiciottoli, Roberto; and Palombi, Maurizio, to Societa Italiana Telecomunicazioni S.p.A. Remote-testing arrangement for two-way transmission channel of PCM telecommunication system. 3,692,964, 9-19-72, Cl. 179-175.31r.
- Camie Company, Inc.: *See—*
- Campbell, Carl N., 3,640,429.
- Camilleri, Francis P. Fish line holder. 3,654,722, 4-11-72, Cl. 43-25.
- Camilleri, Louis T.; and Forgione, Anthony F., to Hooker Chemical Corporation. Process for preparing discoloration-resistant curable polyurethane coatings. 3,706,710, 12-19-72, Cl. 260-75.0ne.
- Camitz, Carl-Henning, to Romnas Burks Aktiebolag. Chain link. 3,664,121, 5-23-72, Cl. 59-84.
- Cammarata, Italo: *See—*
- Vecchio, Martino; and Cammarata, Italo, 3,652,692.
- Vecchio, Martino; Cammarata, Italo; and Pattore, Vittorio, 3,679,767.
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- Cammarata, Italo; and Vecchio, Martino, to Montecatini Edison S.p.A. Process for the production of iodopentafluoroethane. 3,644,544, 2-22-72, Cl. 260-653.7.
- Canon Inc.: *See—*
- Toda, Katuhiko, 3,644,026.
- Camosso, Domenico: *See—*
- Fransos, Pieiro; and Camosso, Domenico, 3,684,337.
- Camosso, Domenico, to RIV-SKF Officine di Villar Perosa S.p.A. Method for the manufacture of rolling bearings. 3,657,781, 4-25-72, Cl. 29-148.4.
- Camp, Albert T.; Dickinson, Lionel A.; and Mosher, Paul R., to United States of America, Navy. Liquid nitrate ester monopropellant composition. 3,634,158, 1-11-72, Cl. 149-88.
- Camp, Albert T.; and McCone, Alan, Jr. Solid propellant rocket. 3,668,872, 6-13-72, Cl. 60-207.000.
- Camp, Alfred L., to Wilkins Regulator Co. Automatically regulated fire valve. 3,692,047, 9-19-72, Cl. 137-95.000.
- Camp, Arthur F., Jr.; and Getz, Harry W., to General Electric Company. Compensating threshold level detector. 3,639,845, 2-1-72, Cl. 328-146.
- Camp, Ernest C., Jr.; and Clausen, Herbert J., to Cities Service Company. Process for producing high analysis ammonium polyphosphates. 3,661,551, 5-9-72, Cl. 71-34.000.
- Camp, George F.: *See—*
- Stanfield, Howard E.; Stanfield, Gary W.; and Camp, George F., 3,693,800.
- Camp, Thomas R., 1/2 to Kreske, Walter J. Method for water and wastewater treatment. 3,660,284, 5-2-72, Cl. 210-49.
- Camp, William J. Aircraft computer. 3,656,688, 4-18-72, Cl. 235-86.
- Campagna, James V., Jr. Main strap around an amplifier with holding strap to hold guitar. 3,664,224, 5-23-72, Cl. 84-1.01.
- Campagne, Jean-Pierre Alain: *See—*
- Brilman, Michel Edmond Francis; Campagne, Jean-Pierre Alain; and Gorinas, Guy Georges, 3,641,517.
- Campagnuolo, Carl J.: *See—*
- Egolf, David P.; and Campagnuolo, Carl J., 3,642,018.
- Campagnuolo, Carl J., to United States of America, Army. Fluid-electrical generator. 3,686,520, 8-22-72, Cl. 310-15.000.
- Campana, Eugene E., to Ciba-Geigy Corporation. Printing of anionic dyes on polycarbonamides of bis (para-aminocyclohexyl)methane and dodecanedioic acid. 3,702,229, 11-7-72, Cl. 8-62.000.
- Campanella, Angelo J. Proximity warning and collision avoidance systems. 3,652,981, 3-28-72, Cl. 340-25.
- Campanella, Matthew J., to United States of America, Navy, mesne. Phased array beam steering control with phase misalignment correction. 3,646,558, 2-29-72, Cl. 343-100.
- Campanelli, Mario. Freeze stabilized insulin. 3,683,635, 8-15-72, Cl. 62-64.000.

- Campanini, Sergio, to Berg Mfg. & Sales Co. Fluid pressure brake system. 3,692,366, 9-19-72, Cl. 303-9.000.
- Campbell, John B., to Du Pont de Nemours, E. I., and Company. Dehydrohalogenation of halogenated compounds. 3,639,493, 2-1-72, Cl. 260-655.
- Campbell, Alastair; Robinson, Peter; and Tipping, James William, to Imperial Chemical Industries Limited. Stabilization of methylchloroform. 3,661,788, 5-9-72, Cl. 252-171.
- Campbell, Alastair; and Robinson, Peter, to Imperial Chemical Industries Limited. Stabilized trichloroethylene. 3,676,507, 7-11-72, Cl. 260-652.50r.
- Campbell, Alastair; and Carruthers, Rosemary Angela, to Imperial Chemical Industries Limited. Manufacture of 1,1,1-trichloroethane. 3,706,816, 12-19-72, Cl. 260-658.00r.
- Campbell, Albert E., to Chevron Research Company. Apparatus for forming foam for use in wells. 3,685,807, 8-22-72, Cl. 259-147.000.
- Campbell, Albert Evan, Jr.; and Jensen, Andrew O., to Xerox Corporation. Metallized and brazed ceramics. 3,666,429, 5-30-72, Cl. 29-195.
- Campbell, Allen J.: See—
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- Campbell, Billy G. Fireplace log burner. 3,671,175, 6-20-72, Cl. 431-328.000.
- Campbell, Bruce D., to Coto-Coil Co., Inc. Reed relay having low thermal EMF. 3,701,960, 10-31-72, Cl. 335-154.000.
- Campbell, Carl N., to Camie Company, Inc. Method of dispensing an industrial spray using both a propellant-dispersant and gas pressure. 3,640,429, 2-8-72, Cl. 222-1.
- Campbell, Charles: See—
Clark, Willard; and Campbell, Charles, 3,687,274.
- Campbell, Charles R.: See—
Mathews, Marion J., III; and Campbell, Charles R., 3,636,096.
Mueller, Werner H.; Hicks, John J., Jr.; and Campbell, Charles R., 3,636,100.
Mueller, Werner H.; Campbell, Charles R.; and Hicks, John J., Jr., 3,654,355.
- Campbell, Charles S., to American Maize-Products Company. Process for making a battermix starch for breaded deep fried foods. 3,655,443, 4-11-72, Cl. 127-70.
- Campbell, Curtis B., and Grover, Ben L., to Utah State University. Dew point hygrometers. 3,664,192, 5-23-72, Cl. 73-336.500.
- Campbell, David: See—
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- Campbell, David, to General Instrument Microelectronics Ltd. Two-phase logic circuit. 3,644,750, 2-22-72, Cl. 307-208.
- Campbell, David; and Chamberland, Real Oscar, to Northern Electric Company Limited. Reed material for sealed contact application. 3,668,355, 6-6-72, Cl. 200-166.00c.
- Campbell, David D., to General Motors Corporation. Occupant restraint system. 3,687,485, 8-29-72, Cl. 280-150.0ab.
- Campbell, David Neil; and Turton, Frank Arnold, to Hymatic Engineering Company Limited. The Cryogenic cooling apparatus. 3,704,598, 12-5-72, Cl. 62-514.000.
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- Campbell, David Robert, to Du Pont de Nemours, E. I., and Company. Process for improving uniformity of polymeric film. 3,646,188, 2-29-72, Cl. 264-230.
- Campbell, Donald A., to Westinghouse Electric Corporation. System for determining leakage inside a reactor containment. 3,644,172, 2-22-72, Cl. 176-19.
- Campbell, Donald H.; and Liu, Chong-Tan, to Hooker Chemical Corporation. Metal plating on non-conductive substrates. 3,681,209, 8-1-72, Cl. 204-30.000.
- Campbell, Donald J., to Honeywell Information Systems Inc. Management control subsystem for multiprogrammed data processing system. 3,639,912, 2-1-72, Cl. 340-172.5.
- Campbell, Donald J.; Heffner, William J.; Jennings, Paul H.; and King, Jane E., to Honeywell Information Systems, Inc. Storage structure for management control subsystem in multiprogrammed data processing system. 3,665,487, 5-23-72, Cl. 444-1.000.
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Strumor, Mathew A.; Rachwal, Ervin J.; Campbell, Douglas B.; and Marculewicz, Robert W., 3,639,059.
- Campbell, Douglas E.; and Harris, Richard A., to Western Electric Company, Incorporated. Mask registration during continuous photoetching of strip material. 3,671,243, 6-20-72, Cl. 96-36.200.
- Campbell, Douglas Earl; and Harris, Richard Allen, to Western Electric Company, Incorporated. Method of partial shuttering for even exposure of photosensitive material. 3,679,310, 7-25-72, Cl. 355-132.000.
- Campbell, Edward E.; and Sandor, Bela, to General Motors Corporation. Closure latch. 3,703,308, 11-21-72, Cl. 292-216.000.
- Campbell, Erwin A.: See—
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- Campbell, Erwin A., to Moore, Lee C., Corporation. Pipe handling apparatus. 3,696,944, 10-10-72, Cl. 214-2.500.
- Campbell, Eugene H.; and Kane, James F., to Signetics Corporation. Binary memory circuit with coupled short term and long term storage means. 3,654,623, 4-4-72, Cl. 340-173.
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Kunda, Wasyli; and Campbell, Finlay, 3,694,185.
- Campbell, Frank A., to Xerox Corporation, mesne. Cable construction. 3,644,659, 2-22-72, Cl. 174-27.
- Campbell, Frederick: See—
MacDonald, Eric; and Campbell, Frederick, 3,698,908.
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- Campbell, George Thomas Richardson; and Ohta, Kimio, to Algoship International Limited. Trimming pipe system for free-flowing cargoes. 3,678,875, 7-25-72, Cl. 114-73.000.
- Campbell, Henry Fred, to Campbell Research Corporation. Stressed concrete structures and method of making. 3,676,968, 7-18-72, Cl. 52-223.000.
- Campbell, Herman W.: See—
Barker, Graham; and Campbell, Herman W., 3,703,481.
- Campbell, Hollis O.; Fetrow, John W.; and Mitchell, Kim L., to Continental Oil Company. Variable depth, remotely selective seismic cable depth controller. 3,704,681, 12-5-72, Cl. 114-235.00b.
- Campbell, Hugh W., to National Cash Register Company, The. Self-destructible honeycomb laminates. 3,638,573, 2-1-72, Cl. 102-90.
- Campbell, Hugh W., to National Cash Register Company, The. Coating of particles and process for manufacturing said coating. 3,694,243, 9-26-72, Cl. 117-27.000.
- Campbell, Hugh W., to National Cash Register Company, The. Self-destructible molded articles. 3,697,668, 10-10-72, Cl. 174-68.500.
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MacDonald, John M.; and Campbell, Ian D., 3,671,423.
- Campbell, Ian Wallace. Apparatus and method for cable covering. 3,689,982, 9-12-72, Cl. 29-430.000.
- Campbell, Ivan D., to Georgia-Pacific Corporation. Process for controlling the burning of sulfur. 3,644,092, 2-22-72, Cl. 23-179.
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Ayer, Donald Emory; Babcock, John C.; and Campbell, J. Allan, 3,654,320.
Babcock, John C.; and Campbell, J. Allan, 3,642,992.
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Fitzgerald, Donald T.; and Campbell, Jack S., 3,684,410.
- Campbell, James A., to Richardson-Merrell Inc. Water dispersible diethylstilbestrol compositions. 3,639,637, 2-1-72, Cl. 424-346.
- Campbell, James K., to Dow Corning Corporation. Emulsion and process for binding pigments to glass fabrics. 3,634,297, 1-11-72, Cl. 260-29.2.
- Campbell, James K.; and Lee, Kenneth M., to Dow Corning Corporation. Silicone-acrylate soil release treatment for organic textiles. 3,677,810, 7-18-72, Cl. 117-138.80f.
- Campbell, James R., 10% to Armco Steel Corporation. Spherical bearing construction. 3,680,930, 8-1-72, Cl. 308-72.000.
- Campbell, James R. Jumping stick horse. 3,682,474, 8-8-72, Cl. 272-1.00d.
- Campbell, James R., 1/10 to Mahoney, Thomas P. Apparatus for bonding metallic panels. 3,689,730, 9-5-72, Cl. 219-82.000.
- Campbell, James W., to Wetoma Corporation. Method of cutting panels. 3,662,798, 5-16-72, Cl. 144-326.
- Campbell, Jay E., to Fairview Development Service, mesne. Simulated leaded stained glass. 3,655,493, 4-11-72, Cl. 161-905.
- Campbell, John: See—
Lechene, Leo; and Campbell, John, 3,643,282.
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Rowley, Douglas W.; and Campbell, John A., 3,672,464.
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- Campbell, John David, to Walker-Neer Manufacturing Co., Inc. Dual circulation bumper subs. 3,664,443, 5-23-72, Cl. 175-293.
- Campbell, John E., to Polaroid Corporation. Fluid containers having an inner acid reacting layer. 3,649,282, 3-14-72, Cl. 96-76.
- Campbell, John George: See—
Dakin, John; and Campbell, John George, 3,667,087.
- Campbell, Joseph: See—
Boyko, Eugene S.; and Campbell, Joseph, 3,683,148.
- Campbell, Joseph O.: See—
Baer, Massimo; and Campbell, Joseph O., 3,635,752.
Baer, Massimo; and Campbell, Joseph O., 3,635,879.
Baer, Massimo; and Campbell, Joseph O., 3,671,378.
Baer, Massimo; and Campbell, Joseph O., 3,671,384.
- Campbell, Joseph R., to Scrivener, Samuel, Jr., mesne. Overhead traffic informational or directional sign. 3,631,619, 1-4-72, Cl. 40-125.
- Campbell, Kenneth C.: See—
Arjani, Farouk D.; Campbell, Kenneth C.; and Smeins, Craig B., 3,664,479.

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- Campbell, Kenneth N.; and Rivard, Donald E., to Mead Johnson & Company. Spiroindenyloperidines. 3,666,764, 5-30-72, Cl. 260-293.620.
- Campbell, Lawrence Frank, to Scovill Manufacturing Company. Multi-position vacuum motor. 3,657,966, 4-25-72, Cl. 91-357.000.
- Campbell, Lewis B.: See—
Pietrzak, Joe P.; Campbell, Lewis B.; and Strahan, Robert M., 3,638,903.
Sayre, Robert E.; Campbell, Lewis B.; and Pietrzak, Joe P., 3,705,831.
- Campbell, Lyman L.; and Kulig, Constantine W. Article handling apparatus. 3,687,262, 8-29-72, Cl. 198-31.0aa.
- Campbell, Lynn W.: See—
Brumagin, Thomas H.; Dickson, John M.; Northrop, Harley E.; Campbell, Lynn W.; Brown, Stanley H.; and Friesz, Elmo W., 3,689,049.
- Campbell Manufacturing Company Limited: See—
Nesbitt, Robert Dennis, 3,671,477.
- Campbell, Mark E., to North American Rockwell Corporation. Fingerprint analysis device. 3,699,519, 10-17-72, Cl. 340-146.30c.
- Campbell, Melvin L., to Collins Radio Company. Solenoid with multi-rate return spring. 3,665,353, 5-23-72, Cl. 335-258.000.
- Campbell, Michael: See—
Tilley, Colin; Watson, David Harris; and Campbell, Michael, 3,644,568.
- Campbell, Michael D.: See—
Johnston, Charles; and Campbell, Michael D., 3,681,504.
- Campbell, Milford A. Work feeding track for T-shaped parts. 3,696,904, 10-10-72, Cl. 198-43.00r.
- Campbell, Patrick J. Radiation emission and detective apparatus for determining density of a material. 3,655,977, 4-11-72, Cl. 250-83.6.
- Campbell, Paul R. Method of and means for controlling traffic. 3,656,099, 4-11-72, Cl. 340-62.
- Campbell, Raymond E.: See—
Hehr, Laverne F.; and Campbell, Raymond E., 3,704,553.
- Campbell Research Corporation: See—
Campbell, Henry Fred, 3,676,968.
- Campbell, Richard: See—
Hilvitz, Arthur L.; Hilvitz, Philip E.; Hilvitz, Harvey M.; and Campbell, Richard, 3,667,372.
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- Campbell, Richard B. Table with folding legs. 3,646,895, 3-7-72, Cl. 108-118.
- Campbell, Richard D., to Westinghouse Air Brake Company. Long length track circuit. 3,636,344, 1-18-72, Cl. 246-40.
- Campbell, Richard D.; deceased (Campbell, Sue Green; executrix). Cuff making method. 3,670,679, 6-20-72, Cl. 112-262.000.
- Campbell, Richard H., to Webster Electric Company, Inc. AVC system. 3,665,332, 5-23-72, Cl. 330-29.
- Campbell, Robert: See—
Pirrello, Antonio; and Campbell, Robert, 3,662,593.
- Campbell, Robert E.: See—
Hetzler, Lewis R.; Campbell, Robert E.; Carlson, Charles R.; and Huntzinger, Gerald O., 3,638,630.
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- Campbell, Robert Henry: See—
Sullivan, Alfred Bay; and Campbell, Robert Henry, 3,635,918.
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Gibson, Paul; Campbell, Robert L., Jr.; and Smith, Guan, 3,637,773.
- Campbell, Robert L., Jr., to Automated Manufacturing Systems, Inc. Apparatus for molding hollow plastic articles. 3,683,705, 8-15-72, Cl. 74-16.000.
- Campbell, Robert W.: See—
Hill, Harold Wayne, Jr.; and Campbell, Robert W., 3,673,247.
- Campbell, Robert W., to Phillips Petroleum Company. Melt-zone salt-out crystallization. 3,658,899, 4-25-72, Cl. 260-543.
- Campbell, Robert W., to Phillips Petroleum Company. Copoly(amide-imide)s comprising the reaction product of a diacid, a triacid and bis(4-aminocyclohexyl)-methane. 3,661,863, 5-9-72, Cl. 260-78.
- Campbell, Robert W.; and Williams, Ralph P., to Phillips Petroleum Company. Light-stable polyurethane coatings. 3,663,514, 5-16-72, Cl. 260-77.5.
- Campbell, Robert W.; and Cummins, Donald L., to General Motors Corporation. Dual voltage system. 3,667,025, 5-30-72, Cl. 320-15.000.
- Campbell, Robert W., to General Motors Corporation. Starting mechanism. 3,686,961, 8-29-72, Cl. 74-7.00r.
- Campbell, Ronald R.; and Monroe, Roger A., to Storage Technology Corporation. File protect system for magnetic tape unit with solenoid for sensing presence or absence of reel ring. 3,641,277, 2-8-72, Cl. 179-100.2.
- Campbell Soup Company: See—
Kazeniak, Stanley J.; and Hall, Robert M., 3,660,112.
Korten, Charles W., 3,635,731.
Ludlum, William J., 3,666,091.
Parry, John R., 3,687,392.
Slade, William J., 3,662,914.
Vogel, Leo G., 3,670,694.
Von Lersner, Wolf A., 3,664,555.
- Campbell, Sue Green: See—
Campbell, Richard D., 3,670,679.
- Campbell, Theodore A.; Stebbins, Marlin R.; and Peelle, Jonathan W., to Rotoloc Corporation. Friction clutch device. 3,656,376, 4-18-72, Cl. 81-58.
- Campbell, Thomas Colin, to Research Corporation. Detoxification of gossypol by eumycophyta. 3,682,645, 8-8-72, Cl. 99-9.000.
- Campbell, Thomas G.; and Appleton, Meredith W., to United States of America, National Aeronautics and Space Administration. Omnidirectional slot antenna for mounting on cylindrical space vehicle. 3,653,052, 3-28-72, Cl. 343-708.
- Campbell, Trevor G.; Larson, Robert V.; Stahl, Sebald K.; Liess, Richard K.; and Rice, Roger A., to Caterpillar Tractor Company. Automatic positioning systems for scraper elevators. 3,653,132, 4-4-72, Cl. 37-8.
- Campbell, W. Wayne, to Peerless Industries, Inc. Vertical shakeout for suspended castings. 3,638,269, 2-1-72, Cl. 15-94.
- Campbell, William B., to I. A. Associates, Inc. Apparatus for fluidizing materials. 3,648,983, 3-14-72, Cl. 259-11.
- Campbell, William B., Jr.; Burroughs, Jack E.; and Cochran, Joe K., Jr., to Ohio State University, The. Surgically implantable prosthetic joint. 3,638,243, 2-1-72, Cl. 3-1.
- Campbell, William G., to Hurst Performance Inc. Rod forming process and apparatus. 3,698,228, 10-17-72, Cl. 72-306.000.
- Campbell, William M.: See—
Dunlap, Henry F.; and Campbell, William M., 3,693,451.
- Campbell, William W. Belt tightening tool. 3,679,176, 7-25-72, Cl. 254-54.000.
- Campen, Jan P.; and Kok, Riekert, to Shell Oil Company. Recovery of sulfonium salt extracting agents. 3,700,767, 10-24-72, Cl. 423-24.000.
- Campi, Anthony V.; and Gray, Bruce H., to United States of America, Army. Resolution of address information in a content addressable memory. 3,634,829, 1-11-72, Cl. 340-172.5.
- Campo, Charles. Admission pass recording and cancelling machine. 3,701,887, 10-31-72, Cl. 235-91.00r.
- Campo, Philip. Filter device. 3,675,776, 7-11-72, Cl. 210-232.000.
- Camporese, Marsilio; and Levi, Alberto. Automatic button fastening device. 3,705,443, 12-12-72, Cl. 24-90.0pr.
- Campos, Adolph J. Automobile safety and anti-theft device. 3,650,347, 3-21-72, Cl. 180-114.
- Camprincoli, Pierpaolo: See—
Beghelli, Benito; and Camprincoli, Pierpaolo, 3,658,937.
- Camps, Josephus Henricus Karel: See—
Heirbaut, Edmond Marie; Fabre, Raymond Francis Andrian; Camps, Josephus Henricus Karel; and Mees, Michael Marcel, 3,646,575.
- Campton, Joseph M.; and Hammerslag, Julius G., to Sensitron, Inc. Disposable clinical thermometer. 3,681,993, 8-8-72, Cl. 73-362.0ar.
- Camras, Marvin, to IIT Research Institute. Tape cartridge with auxiliary spring biasing elements. 3,642,288, 2-15-72, Cl. 274-4.
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- Camras, Marvin, to IIT Research Institute. Transducer system adaptable for audio or video recording or reproduction. 3,686,433, 8-22-72, Cl. 178-6.60a.
- Camras, Marvin, to IIT Research Institute. Multiple video signal transducing system and method. 3,686,436, 8-22-72, Cl. 178-6.6sf.
- Camras, Marvin, to IIT Research Institute. Magnetic transducer system and method. 3,686,467, 8-22-72, Cl. 179-100.200.
- Camras, Marvin, to IIT Research Institute. Apparatus and method for conditioning magnetic transducer system with both head cleaner and bulk demagnetizer. 3,702,906, 11-14-72, Cl. 179-100.20d.
- Camras, Marvin, to IIT Research Institute. Video transducing apparatus. 3,705,954, 12-12-72, Cl. 178-6.60a.
- Can, Yilmaz, to Corning Glass Works. Electrical connector for refractory electrodes. 3,681,506, 8-1-72, Cl. 13-6.000.
- Canada Barrels & Kegs Limited: See—
Cressman, Fred D., 3,664,161.
- Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence: See—
Lachambre, Jean L., 3,641,346.

- Martin, Gerald Y.; and Vines, John Murray, 3,661,090.
 Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence, mesne: See—
 Baekken, Asbjorn, 3,640,490.
 Callaghan, Joseph C., 3,679,180.
 Lachambre, Jean L., 3,660,661.
 Panther, Richard H.; and Purser, Charles Ralph, 3,646,381.
 Simonds, Peter, 3,701,159.
 Wright, Jerauld George, 3,644,928.
 Canada, Her Majesty the Queen in the right of, as represented by the Secretary of State: See—
 Kahle, Wilhelm Manfred, 3,693,061.
 Canada, Her Majesty the Queen of, as represented by the Minister of National Defence: See—
 Beaulieu, Alexander J.; and Johnson, Derwyn C., 3,696,307.
 Beaulieu, Alexandre J.; and Laflamme, Albert, 3,662,284.
 Canada Packers Limited: See—
 Donovan, Ross Grant; and Wolf, Stewart Franklin, 3,679,548.
 Fill Metro, 3,685,095.
 Canada Quebec North Shore Paper Company: See—
 Hamilton, Douglas D., 3,658,104.
 Canada-Cities Services, Ltd.: See—
 Penzes, Stephen, 3,656,938.
 Canadian Brass Limited: See—
 Graff, Elmer, 3,687,494.
 Canadian Breweries Limited: See—
 Schaus, Orland Otto, 3,650,200.
 Canadian Cane Equipment Ltd.: See—
 Tilby, Sydney E., 3,698,459.
 Tilby, Sydney Edward, 3,690,358.
 Canadian Fina Oil Limited: See—
 Redford, David Arthur, 3,687,197.
 Redford, David Arthur, 3,706,341.
 Canadian Forest Products Ltd.: See—
 Krog, Oliver E., 3,667,514.
 Canadian General Electric Company Limited: See—
 Bath, Duncan Thomas, 3,675,080.
 Eastcott, Peter de Hertel; and Jackson, William Herbert, 3,692,153.
 Eastcott, Peter de Hertel; and Jackson, William Herbert, 3,692,280.
 Eastcott, Peter de Hertel; and Welch, James Ernest, 3,698,750.
 Eastcott, Peter de Hertel, 3,705,640.
 Huijbrechtse, Cornelis, 3,638,171.
 Klingbeil, Herbert N.; Cliffe, Walter W.; and Castell, William A., 3,660,229.
 Nasser, Don Barkley, 3,690,830.
 Rehder, Robert H., 3,654,378.
 Canadian General Electric Limited, mesne: See—
 Butler, James, 3,632,929.
 Canadian Imperial Bank of Commerce: See—
 Browning, Stanley Albert Charles; and Williams, Glen, 3,698,715.
 Canadian Industries Limited: See—
 Connelly, William; Sydenham, Leonard; and Szilagyi, John, 3,694,388.
 Jones, Elwyn David, 3,633,731.
 Jones, Elwyn David; and Rowley, Edward Kenneth, 3,706,625.
 McCaffrey, Francis Hamnet Garland; McIndoe, Jack Garnett; and Rigg, Herbert, 3,670,650.
 Rowley, Edward Kenneth; and Waugh, Clayton Thomas, 3,640,790.
 Worndl, John, 3,646,856.
 Canadian Ingersoll-Rand Company, Limited: See—
 Boychuk, Ronald R.; and Slettemoen, Sigmund I., 3,656,508.
 Young, Douglas L., 3,631,981.
 Canadian International Paper Company: See—
 Bethune, John H.; Tarzi, Clement A.; Bolton, Michael R.; and Rainville, Joseph R., 3,632,718.
 Coveney, Donald B.; and Ouellette, Roland J., 3,650,036.
 Girard, Christian F.; and Derouin, Gerald J., 3,640,125.
 Hamilton, Douglas D.; and Boivin, Joseph J. R., 3,642,041.
 Hamilton, Douglas D., 3,658,104.
 Canadian International Paper Company, mesne: See—
 Lee, Charles Allen; Furbeck, Warren R.; Bartley, Thomas S.; and Beaty, Jeremy, 3,682,761.
 Canadian Johns-Manville Company, Limited: See—
 Hodsman, James Burr, 3,688,421.
 Canadian Kenworth Ltd.: See—
 Burrows, Clifford G.; Magnuson, John E.; and Giese, Ludi, 3,706,464.
 Canadian Liquid Air Ltd., Air Liquide Canada Ltee: See—
 Robinson, Max C.; and Wertheimer, Michael R., 3,650,117.
 Canadian Marconi Company: See—
 Denoncourt, Gilles J.; and Nejedly, Peter T., 3,671,731.
 El-Banna, Mahmoud, 3,697,857.
 Glegg, Keith C. M.; Haberl, John F.; Baumans, Hans W.; and Piibe, Rein, 3,670,329.
 Canadian National Railway Company: See—
 Cass, George R., 3,699,563.
 Canadian Patents and Development Limited: See—
 Blachut, Theodore J.; Smialowski, Antoni J.; Schut, Gerhardus H.; and Carman, Philip D., 3,692,405.
 Capes, Charles E.; McIlhinney, Allan E.; and Coleman, Richard D., 3,665,066.
 Chaklader, Asoke C. D., 3,666,851.
 Collins, Stanley Hoover, 3,663,103.
 Das Chaklader, Asoke Chandra, 3,702,881.
 Dawson, Peter S. S., 3,647,633.
 Dingley, Wilfred; Bednar, John S.; and Rogers, Raymond R., 3,645,858.
 Dingley, Wilfred; Bednar, John S.; and Rogers, Raymond R., 3,647,648.
 Farley, Rene; and Rocheleau, David O., 3,697,663.
 Farnand, Joseph Redmond; and Puddington, Ira E., 3,674,461.
 Gross, Harry, 3,665,296.
 Hlady, Alvin M.; Brown, William C.; and Brahan, John W., 3,653,031.
 Johnston, John S.; and St-Laurent, Andre, 3,690,353.
 Kusters, Norbert L.; and Moore, William J. M., 3,701,008.
 Meadus, Frederick W.; and Puddington, Ira E., 3,664,824.
 Menzies, Robert W., 3,671,789.
 Menzies, Robert W., 3,679,924.
 Moody, Norman Frank, 3,665,191.
 Moschopedis, Speros E.; Czakert, Ernst; and Creighton, Stephen M., 3,700,728.
 Peters, Ernest; and Mc Elroy, Roderick, 3,652,219.
 Pincock, Richard E.; and Scott, William Bruce, 3,649,702.
 Porter, Andrew W.; and Sanders, John L., 3,670,790.
 Richards, Harold R., 3,697,219.
 Schreiber, Kurt, 3,698,133.
 Sirianni, Aurelio F.; and Puddington, Ira E., 3,661,254.
 Sugisawa, Hiroshi, 3,695,896.
 Susset, Jacques G.; and Nagler, Robert, 3,667,477.
 Torre, Edward Della, 3,705,394.
 Trigg, Douglas F., 3,668,566.
 Walsh, John H.; Whalley, Basil J. P.; and Botham, John C., 3,637,464.
 Wyslouzil, Walter, 3,644,881.
 Canadian Safety Fuse Company Limited: See—
 Welsh, David Martin, 3,698,280.
 Canadian Seating Company Limited: See—
 Gross, William Keith, 3,648,298.
 Canadian Stackpole Limited: See—
 Heinrich, Gustav, 3,654,024.
 Canadian Structural Clay Association: See—
 Anderson, Yngve R.; and Escott, George K., 3,640,046.
 Canadian Thermo-Images Ltd., mesne: See—
 Brownscombe, Philip J., 3,632,984.
 Canadian Vickers Limited: See—
 Dres, Johannes Karel, 3,662,484.
 Canadian Westinghouse Company Limited: See—
 Galloway, Leslie C., 3,635,533.
 Leavitt, John N.; Alas, Raigo; and Dafoe, Edwin C., 3,638,502.
 Parker, Robert E.; Lodge, Malcolm A.; and Jewell, George S., 3,704,372.
 Canale, Raymond P., to Holley Carburetor Company. Turbine engine cycle temperature control system. 3,660,976, 5-9-72, Cl. 69-39.16.
 Canamero, Ernest V.; and Ullmann, Christoph, to American Can Company. Packaging method and apparatus. 3,673,760, 7-4-72, Cl. 53-22.00a.
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 Canavan, David W., to Kraftco Corporation. Method for reacting a mixture of carboxylic acids with ammonia to provide nitriles. 3,661,970, 5-9-72, Cl. 260-465.2.
 Canavan, Edmond J.: See—
 Bingham, Ronald H.; and Canavan, Edmond J., 3,683,230.
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 Cancer Institute Board: See—
 Sarfaty, Gordon A.; and Tregear, Geoffrey W., 3,639,516.
 Cander, Anthony J.: See—
 Levine, Samson P.; Kugler, Ralph W.; and Cander, Anthony J., 3,685,376.
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 Candor, James T.: See—
 Candor, Robert R.; and Candor, James T., 3,633,282.
 Candor, Robert R.; and Candor, James T., 3,641,680.
 Candor, Robert R.; and Candor, James T., 3,657,069.
 Candor, Robert R.; and Candor, James T., 3,667,130.
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 Candusso, Amerigo E. Skill and amusement device. 3,666,268, 5-30-72, Cl. 273-109.
 Candy, James Charles; Franke, Gladys Marie; and Mounts, Frank William, to Bell Telephone Laboratories, Incorporated. Redundancy reduction video encoding with cropping of picture edges. 3,670,096, 6-13-72, Cl. 178-6.000.
 Cane, Andy C.; and Santos, Charles. Spring biased arm exercising device. 3,633,907, 1-11-72, Cl. 272-83.
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 Willett, Harold A., 3,651,966.
 Willett, Harold A., 3,705,481.
 Cane, Phillip, to Marbelite Company, Inc., The. Traffic control system. 3,688,253, 8-29-72, Cl. 340-31.00r.
 Caneer, Ralph A.: See—
 Taylor, Larry H.; Porter, William D.; Anderson, William J.; and Caneer, Ralph A., 3,697,007.
 Canevari, Gerard P.: See—
 Corino, Edward R.; Broderick, Edward F.; and Canevari, Gerard P., 3,634,050.
 Corino, Edward R.; and Canevari, Gerard P., 3,639,258.
 Canevari, Roger: See—
 Regnier, Gilbert; Canevari, Roger; and Laubie, Michel, 3,647,794.
 Regnier, Gilbert; Canevari, Roger; and Duhault, Jacques, 3,705,899.
 Canfield, Alan R.: See—
 Desjardins, Stanley P.; Canfield, Alan R.; and Wilson, Jonathan W., 3,696,999.
 Canfield, Dale Kelley: See—
 Soehngen, John William; Wagner, William Sherwood; Jamison, Saunders Eliot; and Canfield, Dale Kelley, 3,704,192.
 Canfield, Eugene Beach, to General Electric Company. Adaptively controlled position prediction system. 3,665,168, 5-23-72, Cl. 235-150.2.
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 Canfield, Roger I. Method of making a hollow wooden blank. 3,645,309, 2-29-72, Cl. 144-326.
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 Canfield, William N.: See—
 Vogel, John D.; and Canfield, William N., 3,703,288.
 Canion, Joseph R.: See—
 Walkow, Arnold M.; and Canion, Joseph R., 3,632,970.
 Canizares, Luis. Game simulating a bullfight. 3,698,717, 10-17-72, Cl. 273-134.0ag.
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 Cann, Roald, to Bryant Grinder Corporation. Apparatus and method for grinding irregular surfaces of revolution. 3,693,297, 9-26-72, Cl. 51-94.00r.
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 Cannell, Lawrence G., to Shell Oil Company. Cyclodimerization process. 3,692,854, 9-19-72, Cl. 260-666.00a.
 Cannell, Lawrence George: See—
 Bauer, Ronald; Chung, Harold; Cannell, Lawrence George; Keim, Wilhelm; and Van Zwet, Henry, 3,637,636.
 Cannella, Joseph L., to Berg Manufacturing Company, The, mesne. Emergency filter for fluid braking systems. 3,646,734, 3-7-72, Cl. 55-314.
 Cannella, Joseph L. Automatic reservoir drain valve. 3,658,085, 4-25-72, Cl. 137-341.
 Canner, Herman M., to Sterling Detroit Company. Retrieval apparatus for die casting equipment. 3,668,941, 6-13-72, Cl. 74-89.170.
 Canning, Michael Leo: See—
 Dunn, Roger S.; Canning, Michael Leo; and Jeansonne, Gerald E., 3,634,833.
 Canning, Michael Leo; Dunn, Roger Stanley; and Jeansonne, Gerald Embry, to Texas Instruments, Incorporated. Method of fabricating integrated circuit arrays. 3,641,661, 2-15-72, Cl. 29-574.
 Canning, Thomas Arthur: See—
 Davies, Idwal; Canning, Thomas Arthur; and Harris, Alan G., 3,658,517.
 Canning, William H.: See—
 Chafetz, Harry; Canning, William H.; and Morissette, Bertrand G., 3,691,076.
 Cannito, Vincent F.: See—
 Fernandez, Raul O.; Cannito, Vincent F.; and Olsen, Oscar, 3,696,188.
 Cannon and Associates, Inc.: See—
 Cannon, Robert E.; and Frailing, Le Roy H., 3,680,430.
 Cannon, Charles Worth. Cleaner appliance. 3,653,549, 4-4-72, Cl. 222-132.
 Cannon, Emerson T., to Utah Research & Development Co., Inc. Physical therapy diagnostic device. 3,680,386, 8-1-72, Cl. 73-379.00r.
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 Cannon Kabushiki Kaisha: See—
 Aizawa, Horoshi; and Ogiso, Mitsutoshi, 3,656,420.
 Hanada, Hiroshi; Kitajima, Nobuo; and Masaki, Tatsuo, 3,647,427.
 Cannon, Max R., to International Business Machines Corporation. Slow scan video method and system. 3,663,749, 5-16-72, Cl. 178-6.8.
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 Cannon, Robert E.; and Frailing, Le Roy H., to Cannon and Associates, Inc. Anchor bolt. 3,680,430, 8-1-72, Cl. 85-79.000.
 Cannon, Sidney E.: See—
 Fehr, Isaac N., Jr.; Morris, Trebor B.; Russ, John J.; Bingham, Richard C.; Rubi, Jose M.; Patton, James C.; and Cannon, Sidney E., 3,649,304.
 Cannon, William A.: See—
 Toy, Madeline S.; and Cannon, William A., 3,645,702.
 Cannuli, Vincent Michael, to RCA Corporation. Method of forming an epitaxial semiconductive layer with a smooth surface. 3,692,594, 9-19-72, Cl. 148-172.000.
 Canoga Controls Corporation: See—
 Koerner, Ralph J., 3,649,958.
 Canon Camera Kabushiki Kaisha: See—
 Goshima, Takeshi, 3,662,664.
 Hanada, Hiroshi; and Kitajima, Nobuo, 3,647,430.
 Inoue, Eiichi; Shimizu, Isamu; and Kobayashi, Hajime, 3,667,949.
 Inoue, Eiichi; Yamaji, Keizo; Tanaka, Hiroshi; and Saito, Takashi, 3,673,595.
 Kimura, Takehiko; and Niizawa, Yoshiaki, 3,639,734.
 Takahashi, Toru, 3,663,219.
 Canon Inc.: See—
 Iura, Yukio, 3,683,765.
 Uchiyama, Takashi, 3,643,564.
 Canon Kabushiki Kaisha: See—
 Goshima, Takeshi; and Imai, Nobuhiro, 3,670,992.
 Goshima, Takeshi; Ohta, Shoji; and Imai, Nobuhiro, 3,687,395.
 Goshima, Takeshi; and Iwawaki, Yasutaka, 3,687,529.
 Goshima, Takeshi; Iwawaki, Yasutaka; and Yutaka, Kohtani, 3,702,506.
 Goshima, Takeshi; and Miyasaka, Tooru, 3,703,129.
 Goshima, Takeshi, 3,703,774.
 Goshima, Takeshi; and Kohtani, Yutaka, 3,704,349.
 Goshima, Takeshi; and Kohtani, Yutaka, 3,704,400.
 Hanada, Hiroshi, 3,681,067.
 Hasegawa, Goro; and Ito, Masaharu, 3,674,343.
 Hirose, Ryusho; and Takano, Eiichi, 3,659,921.
 Hiroshi, Hanada, 3,691,104.
 Hosoe, Kazuya; and Kimura, Yoshimasa, 3,650,196.
 Hosoe, Kazuya, 3,682,071.
 Ihara, Takashi; Matsuo, Takehiko; and Ohhara, Katsunobu, 3,697,302.
 Inoue, Eiichi; Yamaji, Keizo; Tanaka, Hiroshi; and Saito, Takashi, 3,653,064.
 Inoue, Eiichi; and Yamase, Toshihiro, 3,705,037.
 Inoue, Shozo, 3,679,301.
 Ito, Masaharu, 3,687,047.

- Ito, Yoshio; Katayama, Hajime; Yamaguchi, Masaru; and Nitan-da, Hiroshi, 3,684,363.
- Ito, Yoshio; Katayama, Hajime; and Yamaguchi, Masaru, 3,689,146.
- Itoh, Yoshio; and Tanaka, Hiroshi, 3,663,100.
- Iwakaki, Yasutaka; Yoshikawa, Minoru; and Usui, Yukio, 3,701,860.
- Kawabe, Tadasi; and Tajima, Akira, 3,652,151.
- Kawakubo, Kazuo, 3,642,366.
- Kawakubo, Kazuo; and Kurahashi, Akira, 3,689,145.
- Kinjo, Kikuo; Yamanouchi, Teruo; Kondo, Eiichi; Matsuno, Hiroshi; and Nishide, Katsuhiko, 3,702,764.
- Kinjo, Kikuo; Yamanouchi, Teruo; Kondo, Eiichi; Matsuno, Hiroshi; and Nishide, Katsuhiko, 3,705,031.
- Kitanosono, Tatsushi; Mashimo, Yukio; and Takishima, Yoshiyuki, 3,678,354.
- Kohtani, Yutaka, 3,703,041.
- Komiya, Takao; Tosaka, Umi; Ihara, Takashi; Matsuo, Takehiko; and Ohara, Katsunobu, 3,687,659.
- Komori, Shigehiro; and Sato, Jiro, 3,637,303.
- Komori, Shigehiro; and Hattori, Hiroyuki, 3,675,999.
- Komori, Shigehiro; and Hattori, Hiroyuki, 3,677,222.
- Kurahashi, Akira; Sakamaki, Hisashi; Kimura, Yoshimasa; and Kusunoki, Katsuo, 3,635,555.
- Kutsuwada, Noboru; and Nagamatsu, Katsumi, 3,685,485.
- Marushima, Giichi, 3,666,364.
- Mashimo, Yukio; and Ishikawa, Mitsuo, 3,678,828.
- Mashimo, Yukio, 3,688,664.
- Matsuda, Mutsuhide, 3,693,527.
- Matsumoto, Kazuya; and Suzuki, Takashi, 3,642,374.
- Matsumoto, Kazuya, 3,682,526.
- Mizui, Seiichi; and Takishima, Yoshiyuki, 3,687,042.
- Nagashima, Shinichiro; and Tsuchiya, Kaichi, 3,706,551.
- Namika, Yoichi; and Ariga, Masao, 3,661,455.
- Ogiso, Mitsutoshi; and Aizawa, Hiroshi, 3,688,669.
- Ogiso, Mitsutoshi; and Ohtaki, Shohei, 3,699,858.
- Ogiso, Mitsutoshi; and Yamada, Katsuhiko, 3,704,656.
- Sakamaki, Hisashi; Kimura, Yoshimasa; Sawamura, Osamu; and Sugiura, Susumu, 3,693,969.
- Sanada, Noriaki; and Ito, Masaharu, 3,675,562.
- Sato, Jiro, 3,647,204.
- Sayanagi, Kazuo, 3,674,339.
- Someya, Atsushi, 3,661,445.
- Sorimachi, Kanehiro, 3,682,408.
- Taguchi, Tatsuya, 3,677,149.
- Takahashi, Toru, 3,692,519.
- Takashi, Uchiyama; Tadashi, Ito; and Mutsuhide, Matsuda, 3,683,769.
- Takishima, Yoshiyuki, 3,678,835.
- Takishima, Yoshiyuki; and Mashimo, Yukio, 3,688,659.
- Tanaka, Hiroshi; Marushima, Giichi; and Takahashi, Shinkichi, 3,651,323.
- Tanaka, Hiroshi; Nagamatsu, Katsumi; Marushima, Giichi; and Takahashi, Shinkichi, 3,666,363.
- Tanaka, Hiroshi; Takahashi, Shinkichi; and Tosaka, Umi, 3,666,365.
- Tanikoshi, Kinji, 3,696,719.
- Tsuji, Takao; and Yoshikawa, Minoru, 3,705,272.
- Uchiyama, Takashi; Ito, Tadashi; and Matsuda, Mutsuhide, 3,675,547.
- Uchiyama, Takashi; Ito, Tadashi; and Matsuda, Mutsuhide, 3,688,663.
- Yamaji, Keizo; and Toryu, Takao, 3,682,539.
- Yamaji, Keizo; and Kurahashi, Akira, 3,694,069.
- Yamamoto, Hideo, 3,678,193.
- Yazaki, Mutsunobu; and Uchiyama, Takashi, 3,633,476.
- Canon Kabushiki Kaisha Co., Ltd.: See—
- Komori, Shigehiro; Kurahashi, Akira; and Sato, Jiro, 3,704,944.
- Canon Kabushiki Kaisha, mesne: See—
- Knechtel, Wilhelm Josef; and Schaffer, Detlef, 3,675,010.
- Knechtel, Wilhelm Josef; and Schaffer, Detlef, 3,699,992.
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- Canonie, Edmond Marie: See—
- Cahn, Jean; Canonie, Edmond Marie; Lejeune, Guy; Ligny, Gaston Arthur Francois; and Modigliani, Dario Claude Fulvio, 3,634,449.
- Canosa, Joseph Francis. Cooling vessel for beverages. 3,680,330, 8-1-72, Cl. 62-457.000.
- Canrad Precision Industries, Inc.: See—
- Thuler, Oscar, 3,701,900.
- Canron Limited: See—
- Kempe, Philip Courtenay, 3,645,411.
- Cant, Noel W.; and Hall, William K., to Gulf Research & Development Company. Propylene oxidation in the presence of rhodium metal. 3,632,833, 1-4-72, Cl. 260-604.
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- Cantarutti, Armindo: See—
- Matsuoka, James T.; and Cantarutti, Armindo, 3,700,374.
- Cantarutti, Armindo, to NRM Corporation. Ply turnup and side wall applying bladder for tire building machine and method. 3,692,605, 9-19-72, Cl. 156-132.000.
- Cantatore, Giuseppe: See—
- Bonvicini, Alberto; and Cantatore, Giuseppe, 3,640,999.
- Bonvicini, Alberto; and Cantatore, Giuseppe, 3,668,278.
- Bonvicini, Alberto; and Cantatore, Giuseppe, 3,668,280.
- Caldo, Cornelio; and Cantatore, Giuseppe, 3,661,821.
- Cantella, Richard C.: See—
- Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; and Cantella, Richard C., 3,639,944.
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- Canterino, Peter J.: See—
- Jones, Rufus V.; and Canterino, Peter J., 3,692,504.
- Canterino, Peter J., to Phillips Petroleum Company. Increasing viscosity of normally liquid hydrocarbons and gels produced. 3,658,491, 4-25-72, Cl. 44-7.
- Cantonwine, Charles R. Automotive timing light to measure dwell angle. 3,694,733, 9-26-72, Cl. 324-15.000.
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- Cantor, Paul A.: See—
- King, William M.; and Cantor, Paul A., 3,673,084.
- Cantwell, Gill, to Century Data Systems, Inc. Disk file gimbal head mount. 3,702,461, 11-7-72, Cl. 340-174.10e.
- Cantwell, Thomas C., Jr.; and Wilmot, Fullerton Richard D., to Hughes Aircraft Company. Cascaded digital integrator target detection system. 3,683,380, 8-8-72, Cl. 343-16.00r.
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- Canziani, Victor J.: See—
- Jantzen, Charles A.; and Canziani, Victor J., 3,694,093.
- Capachietti, Alfred J., Sr.; and Capriotti, Daniel P., Sr. Signal device to indicate malfunction of vehicle clutch. 3,702,458, 11-7-72, Cl. 340-52.00r.
- Capaldi, Eugene C.: See—
- Bonetti, Giovanni A.; Baker, Thomas N., III; and Capaldi, Eugene C., 3,642,919.
- Borchert, Alfred E.; and Capaldi, Eugene C., 3,676,375.
- Capanna, Anthony. Clutch flywheel. 3,635,320, 1-18-72, Cl. 192-107.
- Caparone, Michael J.: See—
- Katchka, Jay R.; Caparone, Michael J.; and Morris, Louis P., 3,691,501.
- Caparone, Michael J.; and Dykzeul, Theodore J., to Robertshaw Controls Company. Pressure regulator construction. 3,648,726, 3-14-72, Cl. 137-505.41.
- Caparone, Michael J.; Dykzeul, Theodore J.; Lynwood, Edward B.; and Braucksick, Henry C. Controller and mixer of plural fluids and methods. 3,685,541, 8-22-72, Cl. 137-599.000.
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- Finucane, Thomas P.; and Capasso, Philip J., 3,702,768.
- Capaul, Marcel; and Sauter, Hermann, to Inventa AG. Process for freeing 55-85% sulphuric acid from its impurities due to metals and/or semi-metals. 3,689,217, 9-5-72, Cl. 423-531.000.
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- Cape Fear Feed Products, Inc.: See—
- Evans, Monroe E., 3,666,498.
- Cape, Richard Allan Gordon, to Dominion Bridge Company Limited. Apparatus for bending plate. 3,667,274, 6-6-72, Cl. 72-298.
- Capek, Raymond G.; and Takahashi, Frank T., to Zenith Radio Corporation. Method of fabricating multilayer ceramic capacitors. 3,683,469, 8-15-72, Cl. 29-25.420.
- Capell, A. Earl; and Wilson, Leroy E., to Kimberly-Clark Corporation. Self bonded tissue-fiber laminate process. 3,679,515, 7-25-72, Cl. 156-309.000.
- Capellaro, David F., to Coulter Electronics, Inc., mesne. Liquid borne particle sensor. 3,669,542, 6-13-72, Cl. 356-36.000.
- Caper, Edward J.: See—
- Hutchinson, Thomas R.; and Caper, Edward J., 3,668,528.
- Caperton, Charles B. Drive for rodding machine. 3,662,421, 5-16-72, Cl. 15-104.3.
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- Caperton, George H., Jr. Drawing aid. 3,660,903, 5-9-72, Cl. 33-64.
- Capes, Charles E.; McIlhinney, Allan E.; and Coleman, Richard D., to Canadian Patents and Development Limited. Beneficiation of coals. 3,665,066, 5-23-72, Cl. 264-117.
- Capetti, Federico: See—
- Papa, Paolo; and Capetti, Federico, 3,643,598.
- Capewell, William Kenneth: See—
- Davies, Robin John; and Capewell, William Kenneth, 3,669,024.
- Capik, Robert J.; and Wright, Leon W., to Atlas Chemical Industries, Inc. Preparation of polyhydric alcohols from carbohydrates. 3,670,035, 6-13-72, Cl. 260-635.00c.
- Capital Machine Company, Inc.: See—
- Hale, Thomas F., 3,680,612.
- Koss, Louis J., 3,654,973.
- Capitol Records, Inc., mesne: See—
- Wechsler, Paul H., 3,635,622.
- Capizzi, Charles F. Alkali resistant polymers and method therefor. 3,654,252, 4-4-72, Cl. 260-92.8.
- Capizzi, Victor T., to Offen, B., & Co., Inc. Air flow control structure for web driers. 3,662,476, 5-16-72, Cl. 34-156.
- Caplan, Sandor: See—
- Klein, Richard I.; Caplan, Sandor; and Hansen, Ralph T., 3,689,131.
- Klein, Richard Ira; and Caplan, Sandor, 3,647,280.
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- Caporiccio, Gerardo: See—
- Sianesi, Dario; and Caporiccio, Gerardo, 3,637,631.
- Sianesi, Dario; Fontanelli, Renzo; and Caporiccio, Gerardo, 3,683,027.
- Capossela, Anthony C.: See—
- Dame, Charles, Jr.; Stinson, William S., Jr.; and Capossela, Anthony C., 3,647,474.
- Capote, Dagoberto T. Disposable, pre-sterilized, self-locating and piercing evacuator with ejector tube. 3,645,268, 2-29-72, Cl. 128-347.
- Capowski, Julius: See—
- Andress, Harry J., Jr.; and Capowski, Julius, 3,652,242.
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- Von Struve, Georg; and Cappel, Fred, 3,682,621.
- Cappel, Fred, to Republic Steel Corporation. Method of producing dicalcium ferrite sinter. 3,669,618, 6-13-72, Cl. 23-51.00r.
- Cappel, Marie-Luise: See—
- Frohlich, Alfons; Cappel, Marie-Luise; and Stubiger, Ernst, 3,685,474.
- Cappella, Michael, to Sergi Bros., Inc. Fork lift attachment. 3,667,633, 6-6-72, Cl. 214-145.000.
- Capper, Harry Milton; Woolley, Harold Oakley, Jr.; Lemons, Clifton Eugene; and Wagner, Richard Maxwell, to AMP Incorporated. Belt plating apparatus. 3,661,752, 5-9-72, Cl. 204-206.
- Capper, Harry Milton; and Wagner, Richard Maxwell, to AMP Incorporated. Strip processing apparatus having air locks between tanks. 3,687,104, 8-29-72, Cl. 118-405.000.
- Cappotto, Samuel D.; Diamond, Herrick R.; and Zeamer, Aaron C., to SCM Corporation. Belt tension device. 3,642,109, 2-15-72, Cl. 197-17.
- Cappucci, Joseph D., to Merrimac Research and Development Company. Signal splitting network wherein an output from second coupler is fed back to isolated part of first coupler. 3,660,783, 5-2-72, Cl. 333-10.000.
- Cappuyns, Joseph Marie: See—
- Duden, Emanuel Hubert; and Cappuyns, Joseph Marie, 3,661,044.
- Capra, Umberto, to Societa Ceccato & C., S.p.A. Scrubbing apparatus for vehicle-washing stations. 3,633,231, 1-11-72, Cl. 15-21.
- Capra, Umberto. Electrohydraulic hoist with mechanical backstop. 3,687,237, 8-29-72, Cl. 187-73.000.
- Capra, Umberto. Control mechanism for horizontal vehicle-scrubbing brush. 3,688,329, 9-5-72, Cl. 15-21.00e.
- Capra, Umberto. Fluid pressure gauge. 3,688,585, 9-5-72, Cl. 73-406.000.
- Caprara, Giuseppe: See—
- Messina, Giuseppe; Montorsi, Giorgio; and Caprara, Giuseppe, 3,699,133.
- Caprarola, Leroy J., to RCA Corporation. Hybrid thermoelectric generator. 3,674,568, 7-4-72, Cl. 136-205.000.
- Capriotti, Daniel P., Sr.: See—
- Capachietti, Alfred J., Sr.; and Capriotti, Daniel P., Sr., 3,702,458.
- Captain International Industries, Ltd.: See—
- Comeau, Charles P., 3,636,315.
- CaptoCap Limited: See—
- Van Baarn, Paul S., 3,696,957.
- Capuano, Charles H., to Owens-Illinois, Inc. Separator for glass articles. 3,637,073, 1-25-72, Cl. 206-65.
- Capuano, Italo A., to Olin Corporation. Total mercury monitor. 3,704,097, 11-28-72, Cl. 23-230.00r.
- Caputi, Roger W.; and Crawford, Wayne T., to General Electric Company. Track-registration process. 3,662,178, 5-9-72, Cl. 250-83.
- Caputo, Jane, to Has-Cap, Inc. Boot support. 3,681,804, 8-8-72, Cl. 12-114.600.
- Caputo, William R., to Westinghouse Electric Corporation. Elevator control device. 3,687,236, 8-29-72, Cl. 187-29.00r.
- Carabateas, Philip M., to Sterling Drug Inc. 1,2-Diazabicyclo[2.2.2]-octanes. 3,644,362, 2-22-72, Cl. 260-250.
- Carabateas, Philip M., to Sterling Drug Inc. N-(N-Heteryl)-acylanilides. 3,655,675, 4-11-72, Cl. 260-293.74.
- Carabateas, Philip M., to Sterling Drug Inc. Certain N-(pyridyl) propionanilides. 3,679,690, 7-25-72, Cl. 260-295.0am.
- Caracappa, Michael. Automatic time-controlled feeding apparatus for animals. 3,658,036, 4-25-72, Cl. 119-51.13.
- Caracci, Joseph R., Jr.: See—
- Germino, Felix J.; and Caracci, Joseph R., Jr., 3,671,269.
- Caracci, Joseph Ronald: See—
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- Caramella, Luigi. Automatic carrier box latch of reduced dimensions. 3,637,159, 1-25-72, Cl. 242-107.3.
- Caras, Bernard; and Ogle, James A., to Burroughs Corporation. Display panel with keep alive cells. 3,654,507, 4-4-72, Cl. 313-198.
- Caras, Bernard, to Burroughs Corporation. Display panel having a plurality of display registers. 3,654,508, 4-4-72, Cl. 313-198.
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- Caras, Bernard, to Burroughs Corporation. Keep-alive electrode for display panel. 3,699,376, 10-17-72, Cl. 313-197.000.
- Caras, Bernard, to Burroughs Corporation. Gaseous display panel with apertured, metallic strip-like, scanning cathodes. 3,700,946, 10-24-72, Cl. 313-188.000.
- Carasso, Daniel, to Societe anonyme dite: Compagnie Gervais-Danone. Volume-inflated freezable product preservable in the fresh state and a process for manufacturing same. 3,674,507, 7-4-72, Cl. 99-136.000.
- Caravan Products Co., Inc.: See—
- Birnbaum, Hermann, 3,679,430.
- Caraway, Guy C. Reciprocating motion mechanism with interconnected dual actuators. 3,693,465, 9-26-72, Cl. 74-110.000.
- Carbajal, Bernard G., III; Gosney, William Milton; and Hall, Lou H., to Texas Instruments, Incorporated. Complementary insulated gate field effect devices. 3,673,679, 7-4-72, Cl. 29-571.000.

- Carberry, John L.; Carson, David C., Sr.; and Harrington, Edward F., to Chemetron Corporation. Multi-ply bellows structure with fluid previous spacer. 3,655,224, 4-11-72, Cl. 285-93.
- Carbo, Jerry A.; and Grady, Dennis F., to Westinghouse Air Brake Company. Sludge retrieval apparatus for air pollution control systems. 3,670,477, 6-20-72, Cl. 55-227.000.
- Carbonaro, Antonio: *See—*
Dall'Asta, Gino; Carbonaro, Antonio; Borghi, Italo; and Greco, Alberto, 3,682,870.
Greco, Alberto; Carbonaro, Antonio; and Dall'Asta, Gino, 3,661,869.
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- Carbonel, Michel, to Thomson-CSF. Method of manufacturing integrated magnetic memory element. 3,650,908, 3-21-72, Cl. 204-15.
- Carbonell, Emile, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Method and apparatus for the generation of refrigerating energy. 3,633,373, 1-11-72, Cl. 62-79.
- Carbonell, Robert J., to Standard Brands Incorporated. Tea process. 3,689,278, 9-5-72, Cl. 99-77.000.
- Carbonetti, Emidio J., Jr.; and Conover, Lewis. Automated paint spray system. 3,674,207, 7-4-72, Cl. 239-69.000.
- Carboni, Rudolph A.; and Piki, Josef, to Du Pont de Nemours, E. I., and Company. Preparation of p-aminobenzoyl chloride salts. 3,681,450, 8-1-72, Cl. 260-544.00m.
- Carboni, Victor B.; and Pavlovic, Jack Dale, to Consolidated Foods Corporation, mesne. Clutch for printing device. 3,682,282, 8-8-72, Cl. 192-48.910.
- Carbonneau, Gordon S., to Carbonneau Industries, Inc. Test clip for electrical conductor. 3,644,877, 2-22-72, Cl. 339-108.
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Carbonneau, Gordon S., 3,644,877.
- Carbonnel, Henri; and Le Frere, Jean, to Groupement Atomique Alsacienne Atlantique (G.A.A.A.). Electromagnetic pump for liquid metals. 3,656,867, 4-18-72, Cl. 417-50.
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- Carbonnel, Jack V.; Grammont, Paul D.; and Werotte, Louis E., to Diamond Shamrock Corporation. Ion exchange resins. 3,674,728, 7-4-72, Cl. 260-220r.
- Carborundum Company, The: *See—*
Battle, James; and Phillips, Richard A., 3,691,503.
Baughman, Davis L.; and Carpenter, James H., 3,668,912.
Baughman, Davis L., 3,705,510.
Bowling, Joseph L., Jr., 3,694,964.
Buell, Halsey W., 3,676,092.
Burtch, Alfred H.; and Buell, Halsey W., 3,707,059.
Carlson, Walter H.; and Ehrenreich, Leo C., 3,657,061.
Carpenter, James H., Jr., 3,653,239.
Carpenter, James H., Jr., 3,693,296.
Chatterjee, Anil K.; and O'Grady, James R., 3,664,277.
Coss, Richard E.; and Harper, Willard J., 3,690,068.
Cottis, Steve G.; Nowak, Bernard E.; and Economy, James, 3,669,738.
Dessureault, Jean-Marie, 3,647,384.
Economy, James; and Clark, Rodger A., 3,650,102.
Economy, James; Cottis, Steve G.; and Nowak, Bernard E., 3,656,994.
Economy, James; and Lin, Ruey-Yuan, 3,668,059.
Economy, James; Wohrer, Luis C.; and Mason, John H., 3,674,894.
Egan, Richard T., 3,648,440.
Ehrenreich, Leo C., 3,672,936.
Harding, William R.; and Hill, Vincent G., 3,635,089.
Harper, Willard J., 3,691,690.
Hensley, James L., 3,634,975.
Hill, Vincent G.; and Harding, William R., 3,705,248.
Long, William W., III, 3,688,445.
Loricchio, Domingos, 3,682,625.
Loricchio, Domingos, 3,704,230.
McMurtry, Carl H., 3,647,558.
Miller, Robert B., Jr.; and Stephenson, Jerry E., 3,692,184.
Nowak, Bernard E.; Cottis, Steve G.; Economy, James; and Steiner, Paul J., 3,644,593.
Nowak, Bernard E.; Economy, James; and Cottis, Steve G., 3,662,052.
Nowak, Bernard E.; Cottis, Steve G.; and Economy, James, 3,668,300.
Presti, Charles Lo, 3,686,798.
Smudski, Paul A., 3,689,220.
Sweet, Larrie H.; and Baker, Nelson H., Jr., 3,668,831.
Wilder, Harvey H., 3,675,374.
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Rowe, Russell L., 3,690,066.
- Carbrey, Robert L., to Bell Telephone Laboratories, Incorporated. Capacitive switched gain ratio operational amplifier PCM decoder. 3,651,515, 3-21-72, Cl. 340-347.
- Carbrey, Robert Lawrence, to Bell Telephone Laboratories, Incorporated. Redistribution circuit for analog to digital and digital to analog conversion and multilevel pre-equalizers. 3,651,518, 3-21-72, Cl. 340-347.
- Carbrey, Robert Lawrence, to Bell Telephone Laboratories, Incorporated. Switched divider PCM coders and decoders. 3,653,030, 3-28-72, Cl. 340-347.
- Carbrey, Robert Lawrence, to Bell Telephone Laboratories, Incorporated. Chord law companding pulse code modulation coders and decoders. 3,653,035, 3-28-72, Cl. 340-347.
- Carby, John Gerard; and Colchester, John Edward, to Imperial Chemical Industries Limited. Manufacture of 1,1'-disubstituted-4,4'-(or-2,2'-) bipyridylum salts from 1,1'-disubstituted tetrahydrobipyridyls. 3,644,383, 2-22-72, Cl. 260-295.
- Carcano, Donato: *See—*
Ragazzini, Mario; Caimi, Alberto; Carcano, Donato; and Gropelli, Giovanni, 3,668,167.
- Carcel, John. Gravity operated horse racing game. 3,658,333, 4-25-72, Cl. 273-86.00c.
- Carcey, Jacques, to Commissariat a l'Energie Atomique. Die-furnace, especially for the fabrication of sintered products. 3,679,807, 7-25-72, Cl. 13-27.000.
- Carco, Inc.: *See—*
Abrams, Paul S.; and Peterson, Rudolph G., 3,653,596.
Abrams, Paul S.; and Peterson, Rudolph G., 3,695,216.
- Card & Co., Inc.: *See—*
Card, Roy T., 3,633,523.
Gable, Larry P.; and Langley, Clyde H., 3,635,177.
- Card, Charles E., Jr.; Donovan, Daniel J.; and Sweeney, William G., to Cogar Corporation. Electronic module and cap therefor. 3,684,817, 8-15-72, Cl. 174-52.00r.
- Card, Roy T., to Card & Co., Inc. Tufting machine having multiple stroke needle bars. 3,633,523, 1-11-72, Cl. 112-79.
- Cardarelli, Nathan F.; and Neff, Harry F., to Goodrich, B. F., Company, The. Biocidal elastomeric compositions. 3,639,583, 2-1-72, Cl. 424-125.
- Cardell, Robert J.; and Harubin, Walter S., to General Electric Company. Film resistor trimmer. 3,649,801, 3-14-72, Cl. 219-68.
- Cardenas, Carlos G.; and Brady, Donnie G., to Phillips Petroleum Company. Brominated adducts of acyclic trienes. 3,697,607, 10-10-72, Cl. 260-648.00c.
- Carder, Frank B.; Stumpe, Warren R.; Frassetto, Bruno S.; and Bell, Charles H., to Dorr-Oliver, Incorporated. Cargo handling. 3,655,075, 4-11-72, Cl. 214-38.
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- Carder, Victor H.; and Cook, Kenneth L., to Cochran Western Corporation. Container transporter apparatus. 3,675,798, 7-11-72, Cl. 214-84.000.
- Cardiac Electronics, Inc.: *See—*
Ceier, Richard R., 3,653,387.
Crovella, Edward A.; and Barfield, C. Verne, 3,672,353.
- Cardiac Resuscitator Corporation: *See—*
Holznagel, Melvin A., 3,703,900.
- Cardic Machine Products, Inc.: *See—*
Bates, Leonard E., 3,654,662.
- Cardinal Instrument Corporation: *See—*
Moran, Robert J.; and Marsilia, Louis P., 3,680,385.
- Cardinal of Adrian, Inc.: *See—*
MacDonald, Robert D., 3,659,037.
- Carding Specialists (Canada) Limited: *See—*
Varga, John Maximilian Jules, 3,644,964.
- Cardinne, Philippe: *See—*
Renard, Michel; Cardinne, Philippe; and Manhes, Bernard, 3,702,956.
- Cardona, Hernando. Ophthalmoscope. 3,664,730, 5-23-72, Cl. 351-6.
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- Carduck, Franz Josef: *See—*
Dorschner, Oskar; Carduck, Franz Josef; Storkebaum, Christoph; and Rother, Claus, 3,655,862.
Dorschner, Oskar; Carduck, Franz Josef; and Storkebaum, Christoph, 3,692,618.
- Cardwell, Gilbert I., Jr., to United States of America, Air Force, mesne. D. C. converter having control transistor in blocking oscillator feedback. 3,671,773, 6-20-72, Cl. 307-275.000.
- Cardwell Machine Company, The: *See—*
Bonner, Charles W., Jr.; and Houck, Curtis T., 3,696,817.
- Cardwell Oil Corporation Ltd. (N.P.L.), mesne: *See—*
Rice, Dale E., 3,644,681.
- Care Electronics, Inc.: *See—*
Buxton, Richard L.; and Miller, George N., 3,646,606.
- Care, Inc.: *See—*
Lang, Jerry M., 3,707,128.
- Caretta, Renato; and Pacciarini, Antonio, to Industrie Pirelli S.p.A., mesne. Process for curing pneumatic tires. 3,674,899, 7-4-72, Cl. 264-315.000.
- Carey, Donald W.: *See—*
Willson, James R.; and Carey, Donald W., 3,652,969.
- Carey, E. A., Pipe Company: *See—*
Doppelt, Max J., 3,646,941.
- Carey, James; and Citrin, Jay E. Automatic voltage booster. 3,668,512, 6-6-72, Cl. 323-45.000.
- Carey, John Gerard: *See—*
Colchester, John Edward; Carey, John Gerard; and Taylor, Michael David, 3,674,797.
Colchester, John Edward; Cairns, John Francis; and Carey, John Gerard, 3,696,113.
- Carey, Lewis S.; and Mansour, George L., to Litton Medical Products, Inc. Mobile fluoroscopic unit for bedside catheter placement. 3,702,935, 11-14-72, Cl. 250-58.000.
- Carey Machine and Supply Company: *See—*
Carey, Paul P., 3,664,441.
- Carey, Michael Albert: *See—*
Gee, Davis William; and Carey, Michael Albert, 3,682,049.
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- Carey Press Corporation: *See—*
Friedman, Arthur S., 3,700,264.
- Carey, Ralph A., to Chevron Research Company. Synthetic lubricating oil stock production. 3,637,483, 1-25-72, Cl. 208-86.
- Carey, Ralph A.; and Jacobson, Robert L., to Chevron Research Company. Cyclic hydrogenation-reforming. 3,660,275, 5-2-72, Cl. 208-138.
- Carey, Raymond L.: *See—*
McConnell, William M.; Bradley, William H.; Chappel, Howard E.; Whitfield, George P.; and Carey, Raymond L., 3,701,336.
- Carfora, Joseph. Lavatory-water closet combination. 3,696,448, 10-10-72, Cl. 4-3.000.
- Cargile, William P., to Biomation, Inc. Transient recorder. 3,662,380, 5-9-72, Cl. 340-347.
- Cargill, Incorporated: *See—*
Jameston, Richard A.; and Mickus, James C., 3,632,759.
McNeff, Larry Cecil, 3,677,767.
- Cargill, Norman Allen, to Peripheral Dynamics Inc. Print hammer mechanism with magnetic reinforcement to cath hammer. 3,707,122, 12-26-72, Cl. 101-93.00c.
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Bagley, Brian G.; and Carides, James Nicholas, 3,669,643.
- Caridi, Roger: *See—*
Boyer, Simone L.; and Caridi, Roger, 3,676,147.
- Carignano, Mario, to Silma S.p.A. Cinematographic projectors. 3,642,356, 2-15-72, Cl. 352-180.
- Caringi, Remo N., to Portec, Inc. Idler for channel tiedown track. 3,658,012, 4-25-72, Cl. 105-368.
- Carinhas, Jack G., Jr.: *See—*
Jackson, Andrew D., Jr., 3,643,802.
- Carini, Eugene P. Fluid driven electrical power apparatus. 3,697,765, 10-10-72, Cl. 290-54.000.
- Carino, John W., to General Electric Company. Electrolytic capacitor having integral bleeder resistor. 3,644,796, 2-22-72, Cl. 317-230.
- Carissimi, Massimo; and Ravenna, Franco. 5,7-Bichloro-8-hydroxy 2 acetylaminio quinoline. 3,682,927, 8-8-72, Cl. 260-287.00r.
- Carissimi, Vincent L., to Hubbell, Harvey, Incorporated. Grounding wheel for grounding electrical devices. 3,649,947, 3-14-72, Cl. 339-14.
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- Cariven, Andre Raymond Daniel. Manufacturing process for a file folder. 3,668,979, 6-13-72, Cl. 93-1.
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- Carl, Christopher: *See—*
United States of America, National Aeronautics and Space Administration, 3,701,894.
- Carl, David G.; Kietzman, Richard C.; and Knapp, William A., to Owens-Illinois, Inc. Device for masking the closable area of a container during the coating of the container. 3,631,837, 1-4-72, Cl. 118-504.
- Carl, Heinz, to Licentia Patent-Verwaltungs-G.m.b.H. Battery. 3,664,876, 5-23-72, Cl. 136-160.
- Carl, Klaus Fredrich Leonhard; and Hardtl, Karl Heinz, to U.S. Philips Corporation. Ceramic bodies for electromechanical transducer. 3,684,714, 8-15-72, Cl. 252-62.900.
- Carl, Robert C.: *See—*
Boudot, William Donald; and Carl, Robert C., 3,647,182.
- Carl, William P.: *See—*
Kottle, Sherman; Carl, William P.; and Vaughn, Walter L., 3,690,774.
- Carl, Wolfgang: *See—*
Oertel, Gunter; Holtschmidt, Hans; and Carl, Wolfgang, 3,639,532.
- Carl Zeiss-Stiftung; a/k/a Carl Zeiss: *See—*
Hoehrl, Gunther, 3,699,348.
- Carl Zeiss-Stiftung; d/b/a Zeiss, Carl: *See—*
Butscher, Karlheinz, 3,675,238.
- Prugger, Hans; and Torge, Reimund, 3,676,004.
- Carlberg, Bobbie L.: *See—*
Caudle, Danny D.; and Carlberg, Bobbie L., 3,651,868.
- Carle, Jacques: *See—*
Thibault, Jean-Jacques; and Carle, Jacques, 3,668,881.
- Carle, Ross C., to ACF Industries, Incorporated. Fluid dampened railway bolster spring. 3,701,322, 10-31-72, Cl. 105-197.00b.
- Carlen, Jan-Christer Henric Ove; and Bergqvist, Claes Bertil, to Sandvikens Jernverks Aktiebolag. Corrosion-resistant razor blades. 3,672,877, 6-27-72, Cl. 75-126.00c.
- Carleton, John T., to Du Pont de Nemours, E. I., and Company. Apparatus for vacuum metallizing. 3,683,847, 8-15-72, Cl. 118-48.000.
- Carleton, Lee T.: *See—*
Witz, Samuel; Carleton, Lee T.; Anderson, Howard H.; Moyer, Rudolph H.; and Neufeld, Harold A., 3,690,837.
- Carleton, Peter S.; Farrissey, William J., Jr.; and Rose, James S., to Upjohn Company, The. Catalytic preparation of polyimides from polyisocyanates. 3,701,756, 10-31-72, Cl. 260-78.00f.
- Carleton, Peter S.; and Farrissey, William J., Jr., to Upjohn Company, The. Adducts of ethylene carbonate and triethylenediamine. 3,703,520, 11-21-72, Cl. 260-268.00t.
- Carleton, Robert S.: *See—*
De Palma, Ted V.; and Carleton, Robert S., 3,644,098.
- Carley-Macaulay, Kenneth Wallace: *See—*
Hills, Peter Robert; Spindler, Michael William; and Carley-Macaulay, Kenneth Wallace, 3,661,745.
- Carli, Alvin J., to Alliance Manufacturing Company, Inc., The. Reversing door operator. 3,694,664, 9-26-72, Cl. 307-149.000.
- Carli, Roberto; and Gordini, Silvano, to Snam Progetti S.p.A. Method for regulating the temperature and the conversion in a polymerization reactor and apparatus suitable to realize the same. 3,705,787, 12-12-72, Cl. 23-230.00a.
- Carlick, Daniel J.: *See—*
Bassemir, Robert W.; Carlick, Daniel J.; and Nass, Gerald I., 3,661,614.
Gruben, Arnold H.; and Carlick, Daniel J., 3,639,313.
- Carlier, Claude, to Saunier Duval. Continuous elevators having automatic charging and discharging. 3,633,726, 1-11-72, Cl. 198-20.
- Carlier, Claude. Dispatch and reception station for pneumatic transmissions. 3,706,428, 12-19-72, Cl. 243-19.000.
- Carlile, Alfred E.: *See—*
Reynolds, Rolfe E.; and Carlile, Alfred E., 3,696,470.
- Carlile, Alfred E.; and Cox, Bernard H., to Textron, Inc. Molded plastic snap fastener and strip of components therefor. 3,685,105, 8-22-72, Cl. 24-213.000.
- Carlile, Clayton George: *See—*
Callister, John David; and Carlile, Clayton George, 3,642,913.
- Carlin Container Corporation: *See—*
Plunkett, Robert L.; and Bradshaw, John A., 3,639,194.
- Carlin, Patrick T.: *See—*
Peters, Jack; Williams, James E.; Murray, Ross; Stoliker, Lawrence F.; and Carlin, Patrick T., 3,658,337.
- Carlin, Ralph E.; and Rigg, Ralph R., to General Motors Corporation. Defrost water drain trap. 3,696,632, 10-10-72, Cl. 62-285.000.
- Carling, Conrad I., to Carling Electric Inc. Toggle actuator assembly for electric switch. 3,641,291, 2-8-72, Cl. 200-67.
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Carling, Conrad I., 3,641,291.
Sorenson, Richard W., 3,701,870.
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- Carlini, Dominique, to Recherches et Applications des Plastiques Dans l'Industrie et le Batiment, S.A. Apparatus for forming cylindrical tanks. 3,652,366, 3-28-72, Cl. 156-443.
- Carlino, Anthony L. Spherical golf club head. 3,637,218, 1-25-72, Cl. 273-168.
- Carlise, Robert L., to North American Rockwell Corporation. RF-excited transducer. 3,634,756, 1-11-72, Cl. 324-58.5.
- Carlisle Chemical Works, Inc.: *See—*
Dworkin, Robert D.; and Stapfer, Christian H., 3,649,577.
Hechenbleikner, Ingenuin; Hussar, John F.; and Bresser, Robert E., 3,632,650.
Hechenbleikner, Ingenuin; and Molt, Kenneth R., 3,652,735.
Hechenbleikner, Ingenuin A., 3,658,910.
Hechenbleikner, Ingenuin A.; Hussar, John F.; Koeniger, Arthur F.; and Bresser, Robert E., 3,699,152.
Stapfer, Christian H., 3,649,576.
Stapfer, Christian H.; and D'Andrea, Richard W., 3,649,663.
Stapfer, Christian H.; and D'Andrea, Richard W., 3,666,772.
- Carlisle, Dennis Richard, to Rolls-Royce Limited. Fuel injector for a gas turbine engine. 3,690,093, 9-12-72, Cl. 60-39.74r.
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- Carlisle Tire and Rubber Division: *See*—
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- Carlo, Armando: *See*—
Jungermann, Eric; Herrick, Aaron B.; and Carlo, Armando, 3,650,831.
- Carlo, L. Diaz: *See*—
Lanus, Alfred L. G., 3,641,984.
- Carlo Tassara S.p.A. Stabilimenti Elettrosiderurgici: *See*—
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- Carlson Engineering Company, Incorporated: *See*—
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- Carlos, Donald D.: *See*—
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- Carlson, Earl W., to Food Industries Research & Engineering, Inc. Installation for the filling of pallets with fruit or other easily damaged products. 3,694,996, 10-3-72, Cl. 53-35.000.
- Carlson, Jon E. M. Metal casting apparatus. 3,643,732, 2-22-72, Cl. 164-309.
- Carlsmith, Lawrence A.; and Hartz, Kenneth E., to Improved Machinery Inc. Aerating apparatus and method. 3,680,845, 8-1-72, Cl. 261-37.000.
- Carlsmith, Lawrence Allan: *See*—
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- Carlson, Alfred D.; and Kasper, Joseph G., to Tennant Company. Filter chamber. 3,639,940, 2-8-72, Cl. 15-352.
- Carlson, Arthur E., to Winpower Manufacturing Company. Polarity control system. 3,659,183, 4-25-72, Cl. 320-25.
- Carlson, Arthur H. Probe type die cooling arrangement. 3,667,248, 6-6-72, Cl. 62-225.000.
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- Carlson, Arthur, Jr., to Haver-Lockhart Laboratories, Incorporated. Method of administering amino acids to convalescing livestock and composition therefor. 3,699,219, 10-17-72, Cl. 424-14.000.
- Carlson, Arthur W., to Velsicol Chemical Corporation. Process for preparing a methano-poly-cyclic hydroquinone. 3,678,116, 7-18-72, Cl. 260-619.00f.
- Carlson, Bernard C.; and Hutchins, Francis E., to Vanderbilt, R. T., Company, Inc. Stable aqueous anti-dandruff shampoo containing captan. 3,671,634, 6-20-72, Cl. 424-274.
- Carlson, Bernard E. Bulk material handling vehicle and unloading boom therefor. 3,642,155, 2-15-72, Cl. 214-83.26.
- Carlson, Carl B.; McKeeman, William M.; and Price, William C., to Burroughs Corporation. Address manipulation circuitry for a digital computer. 3,699,528, 10-17-72, Cl. 340-172.500.
- Carlson, Carl M. Valve. 3,706,322, 12-19-72, Cl. 137-625.660.
- Carlson, Carl O.; Bernstein, Herbert L.; and Franco, Albert J., to National Cash Register Company, The. Semiconductor diode laser recorder. 3,656,175, 4-11-72, Cl. 346-76.
- Carlson, Carl W.: *See*—
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- Carlson, Charles R.: *See*—
Hetzer, Lewis R.; Campbell, Robert E.; Carlson, Charles R.; and Huntzinger, Gerald O., 3,638,630.
- Carlson, Chesley F., Company: *See*—
Pamlenyi, George, 3,672,767.
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- Carlson, Clarence A., to Northern Engraving Company. Method of electrodepositing coral copper on copper foil. 3,699,018, 10-17-72, Cl. 204-52.00r.
- Carlson, Clarence C.; and Duquaine, Gordon L., to Build-All Fabricating, Inc. Parts washer and method of solvent cleaning. 3,707,404, 12-26-72, Cl. 134-10.000.
- Carlson, Dana Peter, to Du Pont de Nemours, E. I., and Company. Tough, stable tetrafluoroethylene-fluoroalkyl perfluorovinyl ether copolymers. 3,642,742, 2-15-72, Cl. 260-87.5.
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- Carlson, David John, to RCA Corporation. Electronically tuned ultra high frequency television tuner. 3,649,937, 3-14-72, Cl. 334-15.
- Carlson, David John, to RCA Corporation. Mixer circuit. 3,694,756, 9-26-72, Cl. 325-451.000.
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- Carlson, Donovan R.; and Maruska, William O., to Honeywell Inc. Fuze apparatus. 3,640,225, 2-8-72, Cl. 102-79.
- Carlson, Duane G., to International Business Machines Corporation. Laser beam scanner. 3,633,994, 1-11-72, Cl. 350-160.
- Carlson, Earl J.; and Horne, Samuel E., Jr., to Goodrich-Gulf Chemicals, Inc. Polymeric material and method of preparing same. 3,657,209, 4-18-72, Cl. 260-94.3.
- Carlson, Edgar; and Lehrian, William R., to Gulf Research & Development Company. Method for stabilizing hydrodesulfurized oil. 3,666,659, 5-30-72, Cl. 208-208.
- Carlson, Edgar; and Lehrian, William R., to Gulf Research & Development Company. Hydrodesulfurization utilizing multiple hydrogen recycle streams. 3,676,333, 7-11-72, Cl. 208-209.000.
- Carlson, Edwin S.: *See*—
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- Carlson, Elmer T., to Broadhill Development Corporation. Electrical conduit system. 3,644,663, 2-22-72, Cl. 174-88.
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- Carlson, Eric A. Material handling device. 3,699,900, 10-24-72, Cl. 108-53.000.
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- Carlson, Eugene E.: *See*—
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- Carlson, Franklin B.: *See*—
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- Carlson, George R. Balanced arbor assembly for buffing and like machine. 3,662,620, 5-16-72, Cl. 74-573.
- Carlson, Gilbert Fritz, to International Telephone and Telegraph Corporation. Hydraulic valve with fluid meter connections. 3,695,105, 10-3-72, Cl. 73-211.000.
- Carlson, Gordon A.: *See*—
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- Carlson, Gordon A., to PPG Industries, Inc. Purification of brine. 3,647,653, 3-7-72, Cl. 204-130.
- Carlson, Gordon A., to PPG Industries, Inc. Recovery of metals from solution. 3,650,925, 3-21-72, Cl. 204-153.
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- Carlson, Harold A.: *See*—
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- Carlson, Harold C. Impact clam extractor. 3,688,344, 9-5-72, Cl. 17-53.000.
- Carlson, Harold C. R. Spring tester. 3,675,479, 7-11-72, Cl. 73-161.000.
- Carlson, Harold G.; Fuller, Clyde R.; and Brown, George A., to Texas Instruments, Incorporated. Method for increasing the stability of semiconductor devices. 3,632,438, 1-4-72, Cl. 117-215.
- Carlson, Heinz F.; Isaac, George L.; and Mosely, Graham H., to Signetics Corporation. Method and apparatus for aligning and breaking wafers. 3,687,345, 8-29-72, Cl. 225-1.000.
- Carlson, Herbert Neil, to Bell Telephone Laboratories, Incorporated. Locked oscillator circuits. 3,676,786, 7-11-72, Cl. 329-122.000.
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- Carlson, John A., to Conchemo, Incorporated. Throttle kill switch. 3,694,596, 9-26-72, Cl. 200-61.870.
- Carlson, John David, to Koppers Company, Inc. Integrated insulated and weatherproof roof system. 3,677,878, 7-18-72, Cl. 161-160.000.
- Carlson, John H.; Mansfield, Donald L.; and Robinson, Hugh A., to USM Corporation. Pneumatic counterbalancers. 3,641,706, 2-15-72, Cl. 49-324.
- Carlson, John W. Butter applicator. 3,652,171, 3-28-72, Cl. 401-12.
- Carlson, Kenneth G. Pallet loading apparatus. 3,669,282, 6-13-72, Cl. 214-6.00p.
- Carlson, Lee Allen, to Dennison Manufacturing Company. Electrophotographic reproduction sheet and composition containing photoconductive material and coarse filler particles. 3,674,477, 7-4-72, Cl. 96-1.800.
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Reese, Gerald D.; Shank, Gerald G.; and Carlson, Lowell D., 3,707,143.
- Carlson, Marvin J.: *See*—

- Rockwell, Harvey W.; and Carlson, Marvin J., 3,642,160.
- Carlson, Morris William. Lawnmower. 3,656,285, 4-18-72, Cl. 56-244.
- Carlson, Otto K.: *See*—
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- Carlson, Paul O.; Cohan, Allan N.; and Gray, Jack C., to General Foods Corporation, mesne. Clouding agent. 3,658,552, 4-25-72, Cl. 99-78.
- Carlson, Peter T.; Weremey, Frederick J.; and Mitchell, Edward B., to TRW Inc., mesne. Magnetic switch system. 3,662,288, 5-9-72, Cl. 335-192.
- Carlson, Reuben C.: *See*—
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- Carlson, Richard A., to General Motors Corporation. Vehicle daytime running lights. 3,706,005, 12-12-72, Cl. 315-82.000.
- Carlson, Richard D.: *See*—
Dever, James L.; and Carlson, Richard D., 3,687,983.
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- Carlson, Richard K., to Bell & Howell Company. Automatic filter actuator for a cartridge load camera. 3,673,934, 7-4-72, Cl. 95-11.000.
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- Carlson, Robert Philip; and Oelschlaeger, George Frederick, to Deere & Company. Safety lock for a linear fluid pressure actuator. 3,662,653, 5-16-72, Cl. 92-15.000.
- Carlson, Ronald H., to Hooker Chemical Corporation. Trishydroxymethyl phosphine oxide from phosphine and formaldehyde. 3,636,160, 1-18-72, Cl. 260-606.5.
- Carlson, Ronald H., to Hooker Chemical Corporation. Synergistic metal sequestrant. 3,655,573, 4-11-72, Cl. 252-180.
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- Carlson, Sharon L.; and Salado, Jenny M. Collapsible utility table. 3,665,867, 5-30-72, Cl. 108-25.
- Carlson, Walter H.; and Ehrenreich, Leo C., to Carborundum Company, The. Reinforced carbon and graphite bodies. 3,657,061, 4-18-72, Cl. 161-81.
- Carlson, Wilbur E. Print holder device. 3,688,679, 9-5-72, Cl. 95-100.000.
- Carlson, William: *See*—
Sundberg, Robert C.; Carlson, William; and Wood, Lampkin H., 3,636,958.
- Carlson, William C. Plant cover. 3,678,619, 7-25-72, Cl. 47-29.000.
- Carlsson, Anders Kjell Johan; Jorgensen, Anders Ossian; Olsson, Olof Alarik; and Ziegler, Horst Robert Adolf, to Telefonaktiebolaget L M Ericsson. Combined loud- and low-speaking telephone instrument having two acoustic converters. 3,659,050, 4-25-72, Cl. 79-1.
- Carlsson, Bengt; and Sundberg, Mauritz R. G., to Aktiebolaget Motala Verkstad. System for manufacturing particle board or the like. 3,692,612, 9-19-72, Cl. 156-375.000.
- Carlsson, Bengt J., to Aktiebolaget Motala Verkstad. Method of making rigid particle boards or the like. 3,649,396, 3-14-72, Cl. 156-62.2.
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- Carlsson, Bengt J., to Aktiebolaget Motala Verkstad. Method for dividing a main stream of particles into part streams and apparatus for carrying out the method. 3,652,131, 3-28-72, Cl. 302-28.
- Carlsson, Eric Harald. Method and apparatus for concentrating solutions or suspensions or for recovering the dry substance thereof. 3,653,424, 4-4-72, Cl. 159-16.
- Carlsson, Konrad Valdemar, to Stenberg-Flygt AB. Pump unit. 3,656,871, 4-18-72, Cl. 417-361.
- Carlsson, Lars Anders Fritz; Helgstrand, Ake John Erik; Sjoberg, Berndt Olof Harald; and Stjernstrom, Nil Erik, to Aktiebolaget Astra. 5-Fluoro-3-pyridinemethanol esters thereof and therapeutically acceptable salts thereof. 3,637,714, 1-25-72, Cl. 260-294.
- Carlsson, Per Arvid Emil: *See*—
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- Carlsson, Stig Ake Ingemar: *See*—
Braendstroem, Arne Elof; Carlsson, Stig Ake Ingemar; and Gagneux, Andre, 3,703,524.
Brandstrom, Arne Elof; Carlsson, Stig Ake Ingemar; and Gagneux, Andre, 3,646,209.
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Brandstrom, Arne Elof; Carlsson, Per Arvid Emil; Carlsson, Stig Ake Ingemar; Corrodi, Hans Rudolf; Ek, Lars; Lamm, Bo Robert; and Ablad, Bengt Arne, 3,674,840.
- Carlsson, Stig Ake Ingemar: *See*—
Gagneux, Andre; Brandstrom, Arne Elof; and Carlsson, Stig Ake Ingemar, 3,699,124.
- Carlsson, Stig Martin, to Sunda Aktiebolag. Arrangement in and relating to machines for manufacturing carton blanks. 3,653,654, 4-4-72, Cl. 271-44.
- Carlton, Berl L.: *See*—
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- Carlton, Lawrence W.: *See*—
Krammer, Vance M.; and Carlton, Lawrence W., 3,705,780.
- Carlton Machine Tool Company, The: *See*—
Lehmkuhl, Robert, 3,669,556.
- Carluccio, Frank; and Chiddix, Max Eugene, to GAF Corporation. Recovery of hydroxyalkyl vinyl ethers. 3,657,360, 4-18-72, Cl. 260-615.
- Carlyon, Richard A., Jr. Agricultural apparatus. 3,638,860, 2-1-72, Cl. 239-127.
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- Carmack, Tim. Combination book mark and reading guide. 3,690,295, 9-12-72, Cl. 116-119.000.
- Carman, Alexander J., to Stevens, J. P., & Co., Inc. Apparatus for feeding filling threads to a warp knitting machine. 3,699,783, 10-24-72, Cl. 66-84.000.
- Carman, Kenneth K., to Koppers Company. Gear type coupling. 3,673,814, 7-4-72, Cl. 64-8.000.
- Carman, Kenneth K., to Koppers Company, Inc. Hub-to-shaft connector and method for couplings. 3,702,200, 11-7-72, Cl. 287-52.050.
- Carman, Philip D.: *See*—
Blachut, Theodore J.; Smialowski, Antoni J.; Schut, Gerhardus H.; and Carman, Philip D., 3,692,405.
- Carman, Richard Jan, to Cameron Iron Works, Inc. Optically coupled control circuit. 3,696,288, 10-3-72, Cl. 323-21.000.
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Heinz, Robert G.; Cohen, Harry; and Carmel, Edwin L., 3,693,306.
- Carmellini, Andrew E.; and James, Robert E., to U.S. Plywood-Champion Papers Inc. Method of making a three dimensional multi-layer panel. 3,681,165, 8-1-72, Cl. 156-297.000.
- Carmen, Jerry: *See*—
Ott, Howard F.; and Carmen, Jerry, 3,635,762.
- Carmen, Raleigh A., to Cutter Laboratories, Inc. Method of coating glass containers. 3,690,928, 9-12-72, Cl. 117-97.000.
- Carmen, William L. Game apparatus. 3,652,087, 3-28-72, Cl. 273-1.
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Dupuis, Hubert J., 3,656,220.
Dupuis, Hubert J., 3,665,571.
Phillips, William H., Jr., 3,680,340.
Schnellman, Oscar; and Stier, Henry Willy, 3,696,562.
Schnellmann, Oscar; and Stier, Henry Willy, 3,688,451.
Sowko, John J., Sr., 3,672,881.
Vale, Peter C.; Palazzola, Anthony; Grui, Nicolae; and Nixon, Raymond F., 3,680,267.
- Carmichael, Alan, to Efco Limited. Conveyors. 3,674,130, 7-4-72, Cl. 198-195.
- Carmichael, Donald: *See*—
Westwood, Alan S.; and Carmichael, Donald, 3,642,128.
- Carmichael, Paul D.: *See*—
Pogonowski, Ivo C.; Carmichael, Paul D.; and Griswold, Richard H., 3,636,717.
Pogonowski, Ivo C.; and Carmichael, Paul D., 3,654,951.
Pogonowski, Ivo C.; and Carmichael, Paul D., 3,695,047.
- Carmody, Dewey Blaine, to Lee, Raymond, Organization, Inc., The. Bandage. 3,687,136, 8-29-72, Cl. 128-156.000.

- Carmody, Michael A., to United States of America, Army. Pulse responsive counting circuits. 3,686,633, 8-22-72, Cl. 340-168.000.
- Carmody, William D.; Thompson, Charles J.; and Butzler, George J., to Dow Chemical Company, The. Continuous process for making expandable thermoplastic resin compositions. 3,673,126, 6-27-72, Cl. 260-250e.
- Carmona, Delio; Diamond, Harvey; and Maliga, Joachim, to Counton Corporation. Ultrasonic tool. 3,654,502, 4-4-72, Cl. 310-26.
- Carmouche, William Jeter. Fish-growing aquarium. 3,638,616, 2-1-72, Cl. 119-5.
- Carnahan, Norman F.: See—
Young, Warren L.; Kennedy, James S.; Carnahan, Norman F.; and Blanchard, Robert R., 3,632,848.
- Carnahan, Robert D.: See—
Youtsey, Karl J.; Holt, William C., Jr.; Carnahan, Robert D.; and Spielberg, David H., 3,651,386.
- Carnahan, William. Headrest apparatus for a wheelchair. 3,643,996, 2-22-72, Cl. 297-410.
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Blackstock, Hoyt A.; and Ross, Nicholas D., 3,689,290.
- Carne, Michael; Smith, Kenneth Cecil; and Webber, David Arthur, to British Oxygen Company, Limited. The. Gas purification. 3,707,066, 12-26-72, Cl. 55-88.000.
- Carnegie Institution of Washington: See—
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- Carnel, Alain, to Compagnie des Compteurs. Device for converting two magnitudes into a number of pulses proportional to the integral of their product. 3,648,182, 3-7-72, Cl. 328-160.
- Carnell, Brian Leyland, to United Aircraft Corporation. Torsion bushing. 3,689,052, 9-5-72, Cl. 267-57.100.
- Carnell, Victor V.: See—
Cooper, Robert J.; and Carnell, Victor V., 3,663,416.
- Carnevale, Angelo: See—
Vinsani, Mario; and Carnevale, Angelo, 3,649,910.
- Carnevale, Edmund H.: See—
Lynnworth, Lawrence C.; Patch, Dana R.; and Carnevale, Edmund H., 3,636,754.
- Carnevale, Richard J.; Howe, Leland D., Jr.; Metz, Thomas A.; Womack, Karl K.; and Zurla, Frank A., to International Business Machines Corporation. Microprogrammed processor with variable basic machine cycle lengths. 3,656,123, 4-11-72, Cl. 340-172.5.
- Carnevalino, Ernest, to Continental Can Company, Inc. Photographic bag. 3,647,134, 3-7-72, Cl. 229-55.
- Carney, John L., Jr.: See—
Dare, Roy R.; and Carney, John L., Jr., 3,639,007.
- Dugge, Richard H.; and Carney, John L., Jr., 3,691,611.
- Dugge, Richard H.; and Carney, John L., Jr., 3,701,460.
- Carney, John L., Jr.; and Schipper, Dennis J., to ACF Industries, Incorporated. Easily removable fluid permeable structure for aerated hopper discharge outlets. 3,659,752, 5-2-72, Cl. 222-195.
- Carney, Murray C.; and Speicher, Ellis, III, to Sangamo Electric Company. Tape transport apparatus. 3,667,700, 6-6-72, Cl. 242-189.000.
- Carney, Richard William James; and De Stevens, George, to Ciba Corporation. Tertiary amino phenyl acetic acids. 3,641,040, 2-8-72, Cl. 260-293.4.
- Carney, Richard William James, to Ciba Corporation. 2-Amino-4-aryl-3,4-dihydroquinolines. 3,647,802, 3-7-72, Cl. 260-288.
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- Carney, Richard William James, to Ciba-Geigy Corporation. 2-Amino-4-aryl-quinolines. 3,668,207, 6-6-72, Cl. 260-286.00r.
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- Carnisio, Giuseppe: See—
Pasquino, Pietro; Benzoni, Luigi; Carnisio, Giuseppe; and Colombo, Luigi, 3,697,578.
- Carns, Leroy J., to Singer Company, The. Finishing boring head. 3,664,755, 5-23-72, Cl. 408-159.000.
- Carnt, Peter Swift; and Schiess, George, to RCA Corporation. Television apparatus responsive to a transmitted color reference signal. 3,673,320, 6-27-72, Cl. 178-5.4he.
- Carocari, John B.: See—
Hobbs, James; and Carocari, John B., 3,644,722.
- CaroChem Corporation: See—
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- Caro Company: See—
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- Caroleo, Steven J., to Emerson Electric Co. Electric heaters. 3,665,155, 5-23-72, Cl. 219-335.000.
- Caroli, Ignazio: See—
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- Caroli, Italo, to DBM Industries Limited. Pin table. 3,635,566, 1-18-72, Cl. 356-170.
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Anthony, Peter C.; Colt, James G.; and Fournarakis, Solon, 3,663,984.
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- Carr, James P., to FMC Corporation. Control mechanism for irrigation system. 3,692,045, 9-19-72, Cl. 137-344.000.
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Vance, Richard Vernon; Rock, Arthur Orville; and Carr, Paul Walter, 3,654,081.
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Reynolds, Andrew C., Jr.; Carragan, John F.; and Yagusic, George J., 3,651,458.
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Clifton, Edward A.; and Carrandi, Artemio P., 3,668,752.
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- Carreira, Leonard M., to Xerox Corporation. Electrophoretic imaging apparatus including means to coat and electrify the imaging electrode. 3,696,020, 10-3-72, Cl. 204-300.000.
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- Carricato, Guy V.: See—
Mowry, Harry E.; Ricardo, Louis A.; and Carricato, Guy V., 3,637,202.
Mowry, Harry E.; Carricato, Guy V.; and Richard, Louis A., 3,663,011.
- Carrick, Alan, to National Research Development Corporation. Automatic high resolution mass measurement. 3,639,741, 2-1-72, Cl. 235-154.
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Abell, Richard S.; and Privon, George T., 3,689,207.
Alexander, Donald E., 3,668,303.
Amick, Larry D., 3,642,030.
Anderson, Carl M.; and Osborne, William T., 3,665,724.
Anderson, Carl M.; and Endress, James W., 3,700,355.
Barrows, Kenneth C., Jr., 3,645,144.
Barry, Vincent T., 3,695,054.
Cann, Peter L.; and Duell, Richard J., 3,698,833.
Czuszak, Charles C.; and Worthen, Richard A., 3,685,791.
Czuszak, Charles C., 3,703,339.
Damratowski, Leonard P.; and Huesgen, Eugene L., 3,695,621.
Dreibelbis, Richard C., 3,653,588.
Dyre, Eddie L., 3,651,655.
Eckman, Raymond L.; and Bryans, David F., 3,682,381.
Elsea, Ralph, 3,653,590.
Endress, James W.; and Anderson, Carl M., 3,635,041.
Endress, James W.; Byrns, Edson H.; and Anderson, Carl M., 3,667,860.
Griffin, Charles K., 3,695,052.
Griffin, Charles K., 3,695,053.
Gutheim, August W., 3,700,198.
Gutheim, August W., 3,703,140.
Hansen, Raymond E.; and Huesgen, Eugene L., 3,680,979.
Herb, Carl C.; and Traver, Darwin G., 3,657,901.
King, Maurice B., III; and Endress, James W., 3,645,643.
Lavigne, William J., Jr.; and Mount, Gordon L., 3,638,445.
Lavigne, William J., Jr., 3,688,515.
Leonard, Louis H., Jr., 3,701,265.
MacLeod, David E., 3,703,087.
Mayer, Robert H., 3,704,035.
McGrath, William L., 3,653,589.
McGrath, William L., 3,674,203.
Miller, Charlie D., 3,673,858.
Mount, Gordon L., 3,637,048.
Mount, Gordon L.; and Endress, James W., 3,645,112.
Mount, Gordon L., 3,672,786.
Mount, Gordon L.; and Endress, James W., 3,705,499.
O'Mara, Raymond D.; and Griffin, Charles K., 3,671,136.
Osborne, William T.; and Endress, James W., 3,650,634.
Rachfal, Stanley J., 3,651,654.
Raleigh, William F., 3,661,140.
Raleigh, William F., 3,664,414.
Raymond, Glendon A., 3,677,028.
Rex, Harland E., 3,636,721.
Roof, Ronald L., 3,684,170.
Scholz, Paul W.; and Czuszak, Charles C., 3,652,055.
Shaw, David N., 3,659,433.
Sturley, Richard A., 3,636,186.
Traver, Darwin G.; and Herb, Carl C., 3,677,164.
Worthen, Richard A., 3,703,183.
Young, Robert L.; Wood, Russell E.; Farney, Samuel D.; and Hogan, Arnold U., 3,702,211.
- Carrier Corporation, mesne: See—
Pilarczyk, Karol, 3,644,054.
Pilarczyk, Karol, 3,664,001.
Pilarczyk, Karol, 3,680,973.
- Carrier Craft Corporation: See—
Garvey, Francis J.; and Winterbottom, Bruce, 3,699,729.
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Knight, Howard Richard James, 3,688,987.
- Carrier, Louis F.; and Spanke, Edwin A., to U.S. Industries, Inc. Gibs. 3,675,976, 7-11-72, Cl. 308-3.000.
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Neff, Charles G.; and Carrier, Louis V., 3,640,549.
- Carrier, Roger E. Monitoring humidity. 3,680,364, 8-1-72, Cl. 73-73.000.
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Grundschober, Friedrich; Wychera, Erhard; and Carriere, Jean Paul, 3,680,689.
- Carriere, Robert Lucien: See—
Fioravanti, Jean; Carriere, Robert Lucien; Thibault, Paul; and Fioravanti, Alain J. F. R., 3,667,416.
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Marinaccio, Paul J.; Kelley, Joseph M.; Carrock, Frederick E.; and Allemand, Edward E., 3,637,555.
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Sizer, Phillip S.; and Carroll, Albert W., 3,666,012.
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Cohen, Martin J.; Wernlund, Roger F.; and Carroll, David I., 3,668,382.
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Cahn, Arno; Ackilli, Joseph Anthony; and Carroll, Frank Emery, 3,649,543.
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- Carroll, Jackson H.: See—
Brown, Elmer T.; and Carroll, Jackson H., 3,686,061.
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Garcia, Julian; and Carroll, James C., 3,700,817.
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- Carroll, Kevin: See—
Applegarth, John C.; Carroll, Kevin; and Hyland, Donald D., 3,688,440.
- Carroll Packaging, Incorporated: See—
Carroll, Hazen J., 3,655,113.
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Spurlin, William V.; and Carroll, Patrick J., 3,703,236.
- Carroll, Patrick P., to Jonathan Logan, Inc. Method and apparatus for protecting production of textured textile yarn. 3,662,531, 5-16-72, Cl. 57-34.
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Sellers, Glenn W.; and Carroll, Richard W., 3,659,116.

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Chappell, Robert N.; and Carroll, Robert L., 3,672,170.
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Koenig, Jude H.; Schoeffel, James A.; Carron, Gene J.; and Walford, Lionel K., 3,663,812.
- Carrow, Guy E., to Phillips Petroleum Company. Method for forming a thick thermoplastic slab. 3,632,702, 1-4-72, Cl. 264-40.
- Carrozza, Sam J.: See—
Lidert, Albert W., 3,641,794.
- Carrozzeria Pininfarina Societa per Azioni: See—
Fioravanti, Leonardo, 3,697,767.
- Carrubba, Robert V.: See—
Covitz, Frank H.; and Carrubba, Robert V., 3,663,381.
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Mahlstede, Gerald F.; and Carruth, Buster L., 3,677,273.
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Bridenbaugh, Paul Michael; Carruthers, John Robert; and Nash, Franklin Richard, 3,665,205.
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Campbell, Alastair; and Carruthers, Rosemary Angela, 3,706,816.
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Badoux, Daniel; and Carry, Robert, 3,707,343.
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Bell, George F.; and Carson, Kit P., 3,649,409.
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Dormody, James W., 3,650,504.
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Carson, Robert M., 3,695,690.
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Block, George P., 3,658,079.
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Blevins, Raymond H., 3,681,900.
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- Carter, Douglas Vaughan, to Avon Rubber Company Limited. Therapeutic device. 3,687,293, 8-29-72, Cl. 210-321.000.
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Carter, Clarence F., 3,664,385.
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Carter, James C., 3,652,186.
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Dozier, Willie L.; and Carter, James M., Jr., 3,681,541.
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Barrett, Arthur Michael; Carter, John; Hull, Roy; Le Count, David James; and Squire, Christopher John, 3,663,607.
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- Carter, Marvin V. Vertically adjustable straddle type cart. 3,688,932, 9-5-72, Cl. 214-394,000.
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Carter, Andrew G.; and Morgan, Charles L., 3,638,692.
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Bouricius, Willard G.; Carter, William C.; Roth, John P.; and Schneider, Peter R., 3,665,173.
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- Carter, William C.; Duke, Keith A.; and Jessep, Donald C., Jr., to International Business Machines Corporation. System for translating to and from single error correction double error detection hamming code and byte parity code. 3,648,239, 3-7-72, Cl. 340-46.1.
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Bouricius, Willard G.; Carter, William Caswell; Roth, John P.; and Schneider, Peter Robert, 3,665,418.
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Ludwig, Bernard J.; Berger, Frank M.; and Fukui, George M., 3,699,097.
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Cheladze, George Andre, 3,648,888.
- Cartier, Michael David: See—
Olyphant, Murray, Jr.; Cartier, Michael David; and Freeman, Charles Robert, 3,665,428.
- Cartledge, Melvyn T. Combination support and alarm system. 3,644,920, 2-22-72, Cl. 340-280.
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Scowcroft, Hector; Cartledge, Albert J.; and Greenwood, Frank, 3,688,356.
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Churchill, Donald; Cartmell, James V.; and Miller, Robert E., 3,697,297.
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Crosno, Philip M., 3,662,099.
- Hathaway, Richard A., 3,669,384.
- Larkin, Thomas J., 3,665,120.
- Protas, Arthur I., 3,677,494.
- Protas, Arthur I., 3,697,676.
- Swain, William W., 3,666,207.
- Cartridge Television, Inc., mesne: See—
Berg, Peter; and Linder, Bertil C., 3,673,349.
- Hathaway, Richard A., 3,665,114.
- Larkin, Thomas J., 3,673,348.
- Swain, William W.; and Hathaway, Richard A., 3,660,614.
- Swain, William W., 3,672,603.
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Cartwright, Victor F., 3,685,050.
- Cartwright, Frederick Timothy: See—
Cartwright, Andrew John; Cartwright, Frederick Timothy; and Cartwright, Peter Charles, 3,688,080.
- Cartwright, James W.: See—
Brunelle, William; and Cartwright, James W., 3,707,032.
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Lay, William A., 3,660,109.
- Carus Corporation: See—
Guisti, Medie B., 3,652,351.
- Posselt, Hans S., 3,652,417.
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Long, Robert B.; Caruso, Fred A.; DeFeo, Richard J.; and Walker, David G., 3,651,159.
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Crafford, Thomas J.; Shilo, Alexander I.; and Cary, Harry W., Jr., 3,640,164.
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Cary, Henry H., 3,632,216.
- Chupp, Vernon L., 3,704,951.
- George, Kenyon P.; and Hawes, Roland C., 3,707,331.
- Hooper, Paige B., 3,636,359.
- Siegler, Edouard Horace, Jr., 3,704,955.
- Cary, John T.: See—
Erlandson, Paul M.; Aschberger, Anton A.; Roth, Donald J.; Cary, John T.; and Bartimes, George F., 3,652,818.
- Erlandson, Paul M.; Aschberger, Anton A.; and Cary, John T., 3,678,241.
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Mc Larty, Shirley, 3,701,311.
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Pope, Kenneth E., 3,665,438.
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Schellenbaum, Max; Duennenberger, Max; and Casagrande, Fulvio, 3,689,550.
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Cellini, Vito; and Casale, Ronald, 3,659,442.
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Casali, Gino; and Casali, Joseph P., 3,675,822.
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- Casals, Jose Bou: See—
De Musquiz Reumert, Jorgen; Gylling-Pedersen, Ole; and Casals, Jose Bou, 3,666,749.
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Pounder, Edwin; and Casani, John R., 3,685,352.
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Ackermann, Friedrich W.; Casani, Ronald T.; Klawitter, William A.; and Heydt, Gerald B., 3,634,072.
- Casanova, John: See—
Sorensen, Robert L.; and Casanova, John, 3,695,807.
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Pressman, Gerald L.; and Casanova, John V., 3,689,935.
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McDonald, Quentin H.; Panicci, Richard L.; Casavant, Roger M.; and Nowak, Ralph M., 3,649,074.
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Baugman, Gaylord G., 3,675,803.
- Farmer, Stanley E., 3,690,714.
- Olson, Harlan D., 3,648,972.
- Sifri, Elie C.; and Wu, Steve W. H., 3,653,670.
- Sifri, Elie C.; and Shibahara, Matthew, 3,654,834.
- Cascade Electronics Ltd.: See—
Rauch, Gerhard J., 3,662,224.
- Rauch, Gerhard J., 3,666,134.
- Cascaval, Nicolae: See—
Dobosan, Valeriu; and Cascaval, Nicolae, 3,702,916.
- Casciotti, Albert: See—
Baker, Charles Edward, II; and Casciotti, Albert, 3,671,921.
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Devereux, Robert F.; and Casco, Ernest L., 3,670,572.
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Acree, Elick H.; Brashear, Hugh R., Jr.; and Case, Forrest N., 3,697,756.
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Acree, Elick H.; Case, Forrest Neil; and Stephens, Nancy H., 3,700,602.
- Case, J. I., Company: See—
Blaauw, Andrew, 3,645,368.
- Blaauw, Andrew, 3,680,880.
- Blakely, Richard P., 3,695,474.
- Dahlquist, Robert L.; and Klee, Maurice, 3,638,659.
- Dollase, William R., 3,640,360.
- Dubinsky, Terence N., 3,671,155.
- Frisbee, Claude M., 3,631,931.
- Frisbee, Claude M., 3,645,340.
- Frisbee, Claude M., 3,685,592.
- Hadler, Howard D.; and Blaauw, Andrew, 3,631,730.
- Holmes, Terry M., 3,680,714.
- Honeyager, Robert G.; and Rigney, James C., 3,659,630.
- Jansson, Birger F., 3,639,093.
- Jansson, Birger F., 3,679,027.
- Jansson, Birger F., 3,695,789.
- Jansson, Birger Fredrik, 3,658,446.
- Lamer, Gerald P.; and Vaerk, Lembit, 3,658,188.
- Little, William E., 3,685,398.
- Long, Elton B.; and Short, Arthur G., 3,653,523.
- Magee, Kenneth L., 3,690,386.
- Mueller, George R., 3,668,519.
- Seaberg, David H., 3,680,723.
- Seaberg, David H., 3,705,631.
- Skahill, Fred J., 3,631,861.
- Stannebein, Clifford E., 3,685,780.
- Swanson, Forrest V.; and Sellon, Raymond N., Jr., 3,692,083.
- Symmank, William D., 3,680,722.
- Wirkus, Joseph P., 3,657,969.
- Yeske, Laurel R., 3,666,019.
- Case, J. I., Company, mesne: See—
Lamer, Gerald P.; and Thiele, Duane L., 3,698,569.
- Smith, Wayne G., 3,642,088.
- Case, John S.; and Johnson, William B., to Anchor Post Products, Inc., mesne. Method for continuous coating of metallic products with fusible pulverulent materials. 3,650,798, 3-21-72, Cl. 117-21.
- Case, John S.; and Whitfield, Edwin W., to Sperry Rand Corporation. Apparatus for determining data associated with objects. 3,685,012, 8-15-72, Cl. 340-38,00p.
- Case, Laura K.: See—
McLeod, Gerald L.; French, Hollis E.; Case, Laura K.; Berman, Elliot; and Casella, Joseph, 3,700,440.
- Case, Laura K., to Itek Corporation. Tanning process for forming a photographic relief image. 3,664,836, 5-23-72, Cl. 96-35.
- Case, Leslie C. Rigid polyurethane compositions with improved properties. 3,671,470, 6-20-72, Cl. 260-2,5ap.
- Case, Leslie Catron. Halogen-containing polyols and polyurethanes prepared therefrom. 3,660,502, 5-2-72, Cl. 260-615.
- Case, Nelson S.: See—
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- Case, Raymond D.; Maloney, Thomas O.; and Warren, Larry H., to Xerox Corporation. Reproducing machine. 3,689,143, 9-5-72, Cl. 355-300.000.
- Case, Roger L.; and Drake, Jack W., to Commercial Affiliates, Inc. Clamping apparatus. 3,659,331, 5-2-72, Cl. 29-268.
- Case, Russell P., to National Tractor Pullers Association. Device for measuring pulling power. 3,633,413, 1-11-72, Cl. 73-141.
- Case Western Reserve University: *See—*
Angus, John C.; and Gardner, Nelson C., 3,661,526.
Miraldi, Floro D., 3,688,113.
- Casebier, Ronald L.; Herrick, Franklin W.; Gray, Kenneth R.; and Johnston, Frederic A., to International Telephone and Telegraph Corporation. Processes for preparing mannose and mannose derivatives. 3,677,818, 7-18-72, Cl. 127-46.00r.
- Casebolt, Ralph T. Sliding glass door assembly. 3,653,157, 4-4-72, Cl. 49-411.
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McLeod, Gerald L.; French, Hollis E.; Case, Laura K.; Berman, Elliot; and Casella, Joseph, 3,700,440.
- Casella, Luigi; Perna, Aldo; and Valbonesi, Giuseppe, to Societa Italiana Telecomunicazioni Siemens S.p.A. Data-evaluation system for telephone exchange. 3,673,340, 6-27-72, Cl. 179-18.00j.
- Casensky, Bohuslav: *See—*
Vit, Jaroslav; Casensky, Bohuslav; Mamula, Milan; and Machacek, Jiri, 3,652,622.
- Caserio, Frederick F., Jr.: *See—*
Schenach, Thomas A.; and Caserio, Frederick F., Jr., 3,634,501.
- Caserio, Frederick F., Jr., to Atlantic Richfield Company. Vinyl acetate recovery process. 3,636,087, 1-18-72, Cl. 260-497.
- Caserta, James: *See—*
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- Casey, Edward A.; and Huggins, James M., to Monsanto Company. Surfactant composition and liquid detergent formulations containing same. 3,639,291, 2-1-72, Cl. 252-152.
- Casey, Edward H.; and Bickhaus, James T., to ACF Industries, Incorporated. Fluidic controlled carburetor. 3,652,065, 3-28-72, Cl. 261-39.
- Casey, Ernest D.; and Sole, Lloyd H., to Ernest-Lloyd Limited. Magnetic pipeline pigs. 3,673,629, 7-4-72, Cl. 15-104.06r.
- Casey, Harry B.; and Clark, Carl E., to TRW Inc. Compact variable resistor with rotary resistance element. 3,657,688, 4-18-72, Cl. 338-150.
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- Casey, Horace Craig, Jr.; and van Roosbroeck, Willy Werner, to Bell Telephone Laboratories, Incorporated. Relaxation semiconductor devices. 3,697,834, 10-10-72, Cl. 317-237.000.
- Casey, John A. Method and composition for sanitation of sugar factories. 3,694,262, 9-26-72, Cl. 127-44.000.
- Casey, Leonard R. Rotary kinetic device with coplaner tandem pistons. 3,680,444, 8-1-72, Cl. 91-493.000.
- Casey, Norris A.; and Ivy, James R. Motorcycle mount for automobile bodies. 3,687,318, 8-29-72, Cl. 214-450.000.
- Casey, Richard C.: *See—*
Gallagher, Frank William; and Casey, Richard C., 3,665,406.
- Casey, Richard H., to General Motors Corporation. Hydro-static bearing air seal. 3,650,582, 3-21-72, Cl. 308-36.3.
- Casey, Tommie; Farrar, Ed; and Cockrum, Grover. Sportsman's boat. 3,694,835, 10-3-72, Cl. 9-2.001.
- Cash, A. W., Valve Manufacturing Corporation: *See—*
Butcher, James; Gyllstrom, Richard G.; and Lamb, William Doyle, 3,670,760.
- Cash, David R., to Cash, James, Machine Co. Drift compensating means for a quilting machine. 3,665,874, 5-30-72, Cl. 112-118.000.
- Cash, David R., to Cash, James, Machine Co. Automatic border panel measuring and cutting machine. 3,673,906, 7-4-72, Cl. 83-208.000.
- Cash, George O., Jr.: *See—*
Joyner, Frederick B.; Cash, George O., Jr.; and Meyer, Max F., Jr., 3,697,465.
- Cash, James, Machine Co.: *See—*
Cash, David R., 3,665,874.
Cash, David R., 3,673,906.
- Cash, John H., Jr.; and Keene, Joe P., to Texas Instruments, Incorporated. R.F. discharge cleaning to improve adhesion. 3,669,861, 6-13-72, Cl. 204-192.
- Cash, John H., Jr.; and Cunningham, James A., to Texas Instruments, Incorporated. RG sputtering method. 3,677,924, 7-18-72, Cl. 204-192.000.
- Cash, Michael J.: *See—*
Warrington, Bertil Eck; and Cash, Michael J., 3,699,588.
- Cashau, George R.: *See—*
Hart, Charles H.; and Cashau, George R., 3,638,936.
- Cashew Kabushiki Kaisha: *See—*
Shimizu, Teisuke; Sasaki, Atsuo; and Nagaki, Shigeo, 3,650,666.
- Cashin, William F.; and Mourning, James R., to Honeywell Inc. Humidity responsive element. 3,673,867, 7-4-72, Cl. 73-337.000.
- Cashman, Harland J., Jr., to United States of America, Army. Combination emitter follower digital line driver/sensor. 3,673,570, 6-27-72, Cl. 340-147.000.
- Cashman, Robert L., to Sperry Rand Corporation. Stolen vehicle indicating device. 3,694,805, 9-26-72, Cl. 340-64.000.
- Casida, Darrell F., to Hart, M. L. Cutting apparatus. 3,633,447, 1-11-72, Cl. 83-8.
- Casimer, Joseph: *See—*
Wrabel, James A.; and Casimer, Joseph, 3,668,476.
- Casini, Paola; and Mollaret, Virginia, to Bianco Satin S.r.l. Satin-white for use in paper glaze, paints and the like, and process for the production thereof. 3,686,011, 8-22-72, Cl. 106-306.000.
- Casio Computer Kabushiki Kaisha: *See—*
Kashio, Toshio, 3,656,169.
Kashio, Toshio, 3,657,599.
Kashio, Toshio, 3,691,551.
Kashio, Toshio, 3,696,394.
Yanou, Takao; and Urayama, Masaharu, 3,662,399.
- Caslaw, James S., to Plessey Company Limited, The. Superconducting electrical conductors. 3,661,639, 5-9-72, Cl. 117-213.
- Casler, Nancy Lee Cecile; and Vincentsen, Barbara Egee, to Du Pont de Nemours, E. I., and Company. Photoresist developer extender baths containing polyoxyalkylene ethers and esters and process of use. 3,682,641, 8-8-72, Cl. 96-35.100.
- Caslow, Joseph H.; Huber, Melvin F.; and Wootten, John A., to Lear Siegler, Inc. Portable infusion pump. 3,685,697, 8-22-72, Cl. 222-137.000.
- Cason, Charles M., III, to United States of America, Army. Magnetohydrodynamic gas dynamic laser. 3,706,050, 12-12-72, Cl. 331-94.500.
- Cason, George A.: *See—*
Young, James W.; Cason, George A.; and Kunkel, Ernest O., 3,659,661.
- Cason, John L., to United States of America, Atomic Energy Commission. Portable neutron source using a plurality of moderating means. 3,659,106, 4-25-72, Cl. 250-106.00s.
- Caspari, Georg K.: *See—*
Terbrueggen, Paul L.; and Caspari, Georg K., 3,660,640.
- Caspari, Rudolf; and Kretschmer, Peter, to Dunlop Holdings Limited. Device for the measurement of the angle of rotation of a rotatable object. 3,672,212, 6-27-72, Cl. 73-99.000.
- Caspe, Marc S. Earthquake resistant multistory structure. 3,638,377, 2-1-72, Cl. 52-167.
- Casper, Le Roy V. Balloon gun and game. 3,698,374, 10-17-72, Cl. 124-11.000.
- Casper, Lee A. Container for light-sensitive particulate solids. 3,643,831, 2-22-72, Cl. 220-42.
- Casper, Robert P., to Hughes Aircraft Company. Opto-electronic scene monitoring system. 3,678,492, 7-18-72, Cl. 340-258.00b.
- Caspers, Willi; to Wolters, Peter, Kratzenfabrik und Maschinenfabrik. Redressing of laps in lapping or honing machines. 3,662,498, 5-16-72, Cl. 51-118.
- Cass, George R., to Canadian National Railway Company. Wheel slip detector. 3,699,563, 10-17-72, Cl. 340-268.000.
- Cass Industries, Ltd.: *See—*
Sjostrom, John P., Sr., 3,665,515.
- Cass, Joseph K. Bow tie rack. 3,642,143, 2-15-72, Cl. 211-13.
- Cass, Richard; and Herbenar, Edward J., to TRW Inc. Torsion bar wheel suspension. 3,692,295, 9-19-72, Cl. 267-57.000.
- Cass, Robert A.: *See—*
Ray, James D.; Steingiser, Samuel; and Cass, Robert A., 3,671,411.
- Cassaday, Lewis E., to Greenwood Mills. Loom operation indicator circuit. 3,633,198, 1-4-72, Cl. 340-267.
- Cassady, John; and Coad, George. Card sorting device. 3,690,670, 9-12-72, Cl. 273-149.00p.
- Cassady, Samuel G., to Martin, Roy A. and Martin, W. R. Vehicle outiggers. 3,638,965, 2-1-72, Cl. 280-150.5.
- Cassanelli, Robert R.; Wauters, Ronald P.; Wirchansky, Anastasia C.; and Wyss, Clement R., to General Foods Corporation. Multi-layered starch-containing dessert. 3,702,254, 11-7-72, Cl. 99-139.000.
- Cassano, James R.: *See—*
Lahr, Roy J.; and Cassano, James R., 3,652,156.
- Cassano, James R.; Smith, Charles E.; and Kalvitis, Robert E., to Xerox Corporation. Film support and transport apparatus. 3,640,614, 2-8-72, Cl. 353-26.
- Cassar, Richard D.; and Boyer, Jackson S., to Sun Oil Company. Petroleum hydrocarbons containing polyester stabilizers. 3,632,846, 1-4-72, Cl. 260-28.
- Cassar, Richard D.; and Boyer, Jackson S., to Sun Oil Company. Elastomeric composition containing polyester stabilizers. 3,644,284, 2-22-72, Cl. 260-45.85.
- Cassara, Frank A.: *See—*
Stangarone, Gene; Cassara, Frank A.; and Dupont, Eugene F., 3,675,615.
- Cassel, Carlis E.; and Krueger, Donald S., to National-Standard Company. Wire reel for a coil of wire. 3,693,903, 9-26-72, Cl. 242-129.800.

- Cassel, John W., to National Cash Register Company, The. High-speed card reader. 3,660,639, 5-2-72, Cl. 235-61.11.
- Cassel, Kevin J.: *See—*
Cassel, Thomas R., 3,653,696.
- Cassel, Kenneth W., Jr.: *See—*
Cassel, Thomas R., 3,653,696.
- Cassel, Thomas R. Quarter wave tuner structure. 3,645,357, 2-29-72, Cl. 181-36.
- Cassel, Thomas R., 80/500 to Cassel, Kenneth W., Jr., 20/500 to Cooksey, R. Nelson, 10/500 to Cassel, Kevin J. and 2/500 to Neighbors, William E. Laminated pipe exhaust conduit with low pressure seal joint. 3,653,696, 4-4-72, Cl. 285-403.
- Cassell, Arnold. Bicycle stabilizer. 3,650,544, 3-21-72, Cl. 280-293.
- Cassell, Perry E. Torque overload release coupling. 3,701,404, 10-31-72, Cl. 192-56.00r.
- Cassell, Robert D.: *See—*
Van Hecke, George J.; and Cassell, Robert D., 3,689,951.
- Cassella Farbwerke Mainkur Aktiengesellschaft: *See—*
Beyerle, Rudi; Stachel, Adolf; Nitz, Rolf-Eberhard; Resag, Klaus; and Schrauen, Eckard, 3,652,557.
Frind, Horst; Heid, Christian; and Aman, Horst, 3,640,803.
Von Brachel, Hanswilli; Cornelius, Dieter; and Stier, Eberhard, 3,637,653.
Von Brachel, Hanswilli; and Hintermeier, Karl, 3,637,762.
- Cassella, Vincent Joseph, Jr., to Pennwalt Corporation. Composition and method for treating dry-cleanable soil-resistant leathers. 3,668,124, 6-6-72, Cl. 252-8.57.
- Cassells, Raymond John Naismith, to Castan Limited. Apparatus for cleaning bed pans. 3,645,283, 2-29-72, Cl. 134-58.
- Cassen, Benedict, to University of California, The Regents of the. Radiation scanning device for detecting a plurality of different radiating sources positioned in different planes. 3,659,103, 4-25-72, Cl. 250-71.5.
- Cassen, Quentin C.; Luisi, James A.; and Salman, Naif D., to North American Rockwell Corporation. Read-only memory. 3,671,948, 6-20-72, Cl. 340-173.0sp.
- Cassibo, Vernon E.: *See—*
Javes, Wallace R.; and Cassibo, Vernon E., 3,654,417.
- Cassidy, Carl R., to Burroughs Corporation. Electroacoustic converter. 3,663,757, 5-16-72, Cl. 179-2.
- Cassidy, Donald J., to Ford Motor Company. Ceramic regenerator seals. 3,647,228, 3-7-72, Cl. 277-96.
- Cassidy, Edward K.: *See—*
Stepenske, Lawrence D.; and Cassidy, Edward K., 3,677,226.
- Cassidy, Glenn; Hartman, Donald A.; Hentz, Lyle J.; and Horn, William D., to Western Electric Company, Incorporated. Gas tube surge protective device and method for making the device. 3,702,952, 11-14-72, Cl. 317-62.000.
- Cassidy, Harold G.; Wegner, Gerhard; and Nakabayashi, Nobuo, to Research Corporation. Quinonidiol intermediates for redox polymers. 3,707,488, 12-26-72, Cl. 260-396.00r.
- Cassidy, James L. Pressure process for condensing power house stream. 3,703,809, 11-28-72, Cl. 60-95.000.
- Cassidy, John Edward: *See—*
Birchall, James Derek; and Cassidy, John Edward, 3,702,774.
- Cassidy, Leon, Jr. Ratchet spinner wrench. 3,691,876, 9-19-72, Cl. 81-58.100.
- Cassidy, Patrick E.; and Lowell, Philip S., to Tracor, Inc. Method of forming coil packages of metal foil strips. 3,648,350, 3-14-72, Cl. 29-423.
- Cassie, John V.; Lima, Philip J.; and McCully, Everette R., to International Business Machines Corporation. Digital speed servomechanism. 3,646,417, 2-29-72, Cl. 318-318.
- Cassiere, Gerald D.: *See—*
Ferdinand, Irwin J.; Kulbersh, Irwin R.; and Cassiere, Gerald D., 3,691,966.
- Cassiers, Paul Maria: *See—*
Conix, Andre Jan; and Cassiers, Paul Maria, 3,654,461.
- Cassimatis, Jean; and Vie, Robert. Pneumatic machine for the leak-tight closure of flasks. 3,691,725, 9-19-72, Cl. 53-328.000.
- Cassimatis, Peter N.: *See—*
Gould, Wallace E.; and Cassimatis, Peter N., 3,680,180.
- Cassin, Christopher: *See—*
Buckley, Alan; and Cassin, Christopher, 3,642,976.
- Cassina, Cesare, to Cassina, Cesare, Centro S.r.l. Method for a reduced size packing of armchairs, divans and the like. 3,641,726, 2-15-72, Cl. 53-24.
- Cassina, Cesare, Centro S.r.l.: *See—*
Cassina, Cesare, 3,641,726.
- Cassinelli, Giuseppe: *See—*
Arcamone, Federico; Cassinelli, Giuseppe; Penco, Sergio; and Tognoli, Luigi, 3,686,163.
- Cassinelli, Giuseppe; Cotta, Ernesto; Grein, Arpad; and Mazzoleni, Rosanna, to Societa' Farmaceutici Italia. Antibiotic complex taimycin and method for the preparation thereof. 3,644,619, 2-22-72, Cl. 424-121.
- Cassinelli, Giuseppe; Cotta, Ernesto; Pennella, Paolo; and Faustini, Remo, to Societa' Farmaceutici Italia. Antibiotic substance libanomycin. 3,696,194, 10-3-72, Cl. 424-115.000.
- Casson, Edward A., Jr. Plate rubbing member for lithographic plate developing machine. 3,651,549, 3-28-72, Cl. 29-129.
- Casson, Edward A., Jr.; Gaul, Albro T.; Langlais, Eugene L.; Shadlen, Gerald; and Vanaver, Eugene L., to Durolith Corporation. Corrosion resistant metallic plates particularly useful as support members for photo-lithographic plates and the like. 3,658,662, 4-25-72, Cl. 204-58.
- Casson, Edward A., Jr. Automatic lithographic plate developing machine. 3,682,079, 8-8-72, Cl. 95-89.00r.
- Castaldi, John A., to Supreme Equipment & Systems Corporation. Automatic search and retrieval system. 3,690,479, 9-12-72, Cl. 214-16.40a.
- Castan Limited: *See—*
Cassells, Raymond John Naismith, 3,645,283.
- Castanis, George. Multi-image mirror. 3,647,283, 3-7-72, Cl. 350-293.
- Castedello, William: *See—*
Schwartz, Morris; Castedello, William; and Kaprelian, Edward K., 3,638,875.
- Castedello, William, to Kalart Company Inc., The. Cassette for a sound slide projector. 3,685,893, 8-22-72, Cl. 353-120.000.
- Casteel, Charles P.; and Vanderhoof, Roy E. Kit for modifying footwear traction. 3,638,785, 2-1-72, Cl. 206-47.
- Castela, Andre: *See—*
Joubert, Philippe; and Castela, Andre, 3,656,763.
- Castela, Andre; and Joubert, Philippe, to Institut Francais du Petrole des Carburants et Lubrifiants. Device for handling elongated members. 3,651,959, 3-28-72, Cl. 214-2.5.
- Castell, Juan Morato. Method of packing cooked food products. 3,642,499, 2-15-72, Cl. 99-171.
- Castell, William A.: *See—*
Klingbeil, Herbert N.; Cliffe, Walter W.; and Castell, William A., 3,660,229.
- Castellani, Giovanni. Gear transmissions. 3,683,714, 8-15-72, Cl. 74-414.00r.
- Castellani, Italo: *See—*
Ferrara, Italo; and Castellani, Italo, 3,661,509.
- Castellano, Angelo. Combined spectacle frame and light. 3,634,676, 1-11-72, Cl. 240-6.4.
- Castellano, Joseph Anthony; and Friel, Ronald Norman, to RCA Corporation. Liquid crystal display device including side-by-side electrodes on a common substrate. 3,674,342, 7-4-72, Cl. 350-160.00r.
- Castellano, Joseph Anthony, to RCA Corporation. Liquid crystal color display. 3,703,329, 11-21-72, Cl. 350-150.000.
- Castellanos, Leopold J., to Esso Production Research Company. Swivel joint connection. 3,636,716, 1-25-72, Cl. 61-46.5.
- Castellengo, Michele M. T.: *See—*
Leipp, Emile A.; Castellengo, Michele M. T.; Lienard, Jean-Sylvain R.; Quinio, Jacques L.; Sapaly, Jean; and Teil, Daniel G., 3,632,887.
- Castelli Anonima s.a.s.: *See—*
Castelli, Leonida; and Piretti, Giancarlo, 3,656,806.
- Castelli, Leonida: *See—*
Piretti, Giancarlo; and Castelli, Leonida, 3,705,744.
- Castelli, Leonida; and Piretti, Giancarlo, to Castelli Anonima s.a.s. Chair or the like with back and seat foldable in upright position. 3,656,806, 4-18-72, Cl. 297-324.
- Castelli, Luigi. Yarn feeding and tensioning apparatus. 3,669,328, 6-13-72, Cl. 226-97.000.
- Castelli, Paolo: *See—*
Ponzini, Sandro; Castelli, Paolo; and Lewendel, Jean Stanislaw, 3,639,398.
Ponzini, Sandro; Castelli, Paolo; and Stanislaw, Jean Lawendel, 3,642,787.
- Castellion, George Augustus; and Habermann, Joseph Peter, to American Cyanamid Company. Plastic optical filter. 3,692,688, 9-19-72, Cl. 252-300.000.
- Castello, Anthony M.: *See—*
Solka, James L.; Reichelderfer, Charles A.; Dieckmann, John J.; and Castello, Anthony M., 3,662,738.
- Castello, Louis D.: *See—*
West, Curtis C.; Castello, Louis D.; and Ward, Frederick William Allan, 3,658,011.
- Castello, Robert A.: *See—*
Morgans, David J.; Bavitz, Joseph F.; and Castello, Robert A., 3,655,742.
- Castellucci, Nicholas T., to Pittsburgh Corning Corporation. Method of making a tower packing element. 3,657,847, 4-25-72, Cl. 51-313.
- Castellucci, Nicholas T.; and Krouskop, Ned C. Process for burning a combustible liquid using cellular ceramic nodules. 3,661,497, 5-9-72, Cl. 431-7.000.
- Caster, Glenn, to Baxter Laboratories, Inc. Fluid flow valve. 3,685,795, 8-22-72, Cl. 251-342.000.
- Castiaux, Marcel, to Glaverbel. Packaging device for sheet materials. 3,645,389, 2-29-72, Cl. 206-62.
- Castiglia, Anthony J. Streamlining motorcycle gas tank closure device. 3,695,480, 10-3-72, Cl. 220-24.0gt.

- Castiglia, Ignatius F. Brace for articulated limbs. 3,669,105, 6-13-72, Cl. 128n80.00c.
- Castiglioni, Livio; and Frattini, Gianfranco. Electric lighting apparatus, particularly for decorative uses. 3,633,023, 1-4-72, Cl. 240-10.
- Castille, Leopold A.: See—
Walton, Carey E., 3,659,759.
- Castillo, Adolfo: See—
Jureit, John Calvin; Csakvary, Oscar; and Castillo, Adolfo, 3,685,129.
- Castillo, Cecilio O., to Kennecott Copper Corporation. Production of lubricant-grade molybdenite from by product concentrates of porphyry copper ores. 3,645,455, 2-29-72, Cl. 241-20.
- Castillon, Philippe Charles Albert, to Gaz de France. Pressure regulating and reducing gas-flow for industrial installations. 3,665,959, 5-30-72, Cl. 137-551.000.
- Castle & Cooke Inc.: See—
Golding, David R. V., 3,658,651.
Vadas, Leslie, 3,642,043.
Vadas, Leslie; and Drake, Robert W., 3,656,527.
- Castle, A. Lynn: See—
Timbrook, Robert L.; and Castle, A. Lynn, 3,665,662.
- Castle, George K.: See—
Belason, E. Bruce; Castle, George K.; Crowley, Donald P.; and Morgida, Joseph V., 3,647,193.
- Castle, Maurice E. Disposable splint. 3,695,258, 10-3-72, Cl. 128-87.00r.
- Castle, Raymond G.: See—
Cherry, Walter L.; and Castle, Raymond G., 3,644,855.
- Castle, Robert L.: See—
Amland, Ronald D.; and Castle, Robert L., 3,667,284.
- Castle Tool Specialty Co. Inc.: See—
Patch, Richard D., 3,651,603.
- Castleberry, Joseph C., to Altec, Inc. Speed control. 3,676,017, 7-11-72, Cl. 412-34.000.
- Castles, George Richard: See—
Ettre, Kitty S.; and Castles, George Richard, 3,655,496.
- Castner, Charles S., to Schuyler Development Corporation. Fishing lures. 3,631,625, 1-4-72, Cl. 43-42.33.
- Castner, Charles S., to Schuyler Development Corporation. Method for renewing, resurfacing and preserving phonograph records. 3,652,314, 3-28-72, Cl. 117-2.
- Castner, Charles S., to Schuyler Development Corporation. Methods of converting cocoa butter to free acids. 3,654,327, 4-4-72, Cl. 260-418.
- Castner, Charles S., to Schuyler Development Corporation. Cleaning and conditioning concentrate compositions. 3,679,609, 7-25-72, Cl. 252-527.000.
- Castner, Charles S., to Schuyler Development Corporation. Compositions for cleaning and sterilizing milk. 3,694,365, 9-26-72, Cl. 252-106.000.
- Castner, Claire; and Berard, Raymond A., to Celanese Corporation. Modified oxymethylene polymers stabilized with phosphites. 3,642,942, 2-15-72, Cl. 260-858.
- Castner, Claire J.; Russo, Robert V.; and Berard, Raymond A., to Celanese Corporation. Method for production of modified oxymethylene polymers. 3,670,050, 6-13-72, Cl. 260-860.000.
- Castner, John F. Cotton swab strip. 3,648,836, 3-14-72, Cl. 206-65.
- Castoe, Alonzo R.: See—
Arnold, Thomas B.; Byrnes, Eugene B.; and Castoe, Alonzo R., 3,702,296.
- Castoldi, Fabrizio, to Honeywell Information Systems, Italia S.p.A. Timing apparatus for high speed printer. 3,707,121, 12-26-72, Cl. 101-93.00c.
- Castonguay, Roger A.; Hanley, Bernard C.; Mallahan, Francis J.; and Wenckus, Joseph F., to Little, Arthur D., Inc. Pressure- and temperature-controlled crystal growing apparatus. 3,639,718, 2-1-72, Cl. 219-10.67.
- Castor, William M.: See—
Turley, Robert R.; Castor, William M.; and Nunnally, Kenneth R., 3,703,593.
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Keay, Robert E.; Castrantas, Harry M.; and MacKellar, Donald G., 3,635,667.
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Barabas, Andrew A., 3,688,705.
Barabas, John J., 3,654,642.
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Tarbox, John W.; Hinds, Walter E.; and Castro, Rodolfo, 3,699,630.
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Elliott, John Scotchford; Edwards, Eric Descamp; and Jayne, Gerald John Joseph, 3,632,613.
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Cuffaro, Antonino; Castronovo, Francesco; Bruno, Achille; and Rancati, Gianluigi, 3,670,060.
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Deflorin, Alberto; Abel, Heinz Reinach; Berger, Alfred; Casty, Richard; and Toepfl, Rosemarie, 3,647,728.
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Rovati, Luigi; Mascherpa, Sergio; and Casula, Pierluigi, 3,697,652.
- Caswell Equipment Company, Incorporated: See—
Busch, Theodore N., 3,653,025.
- Cat Products, Inc.: See—
Duggan, Richard E.; Sandberg, Bernard L.; Reisner, Manfred; and Gascoigne, Allan J., 3,644,921.
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Cohn, Eugene; and Catallo, Frank, 3,632,030.
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Gutmann, William R.; and Dienes, Edward K., 3,661,801.
- Catalyst Research Corporation: See—
Ayd, Frank J., III; and Long, Stephen E., 3,639,773.
Caples, Allen S., 3,665,859.
Moser, James R., 3,660,163.
Schneider, Alan A.; and Moser, James R., 3,674,562.
- Catalyst Services, Inc.: See—
Kennedy, Alvin B., Jr., 3,653,526.
Kennedy, Alvin B., Jr., 3,662,886.
- Catalysts and Chemicals Inc.: See—
La Hue, Richard W.; and Smith, Nolan A., 3,679,762.
Livingston, Jimmy Y., 3,679,763.
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Gelblum, Gideon P., 3,653,829.
- Catalytic Technology Corporation: See—
Goldberger, Max, 3,637,437.
- Catania, Carmen, to Hays Manufacturing Company. Solenoid controlled pilot valve. 3,633,868, 1-11-72, Cl. 251-30.
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Murphree, Francis J.; and Catano, Paul S., 3,676,802.
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Buglio, Edward; and Catanzaro, Luigi, 3,633,592.
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Clark, Alvena F., 3,638,633.
- Cate, Alan Clifford; and Gordon, Roy Charles, to American Cyanamid Company. Device for casting acrylic sheets. 3,680,991, 8-1-72, Cl. 425-86.
- Caterpillar Mitsubishi Ltd.: See—
Aihara, Toru, 3,632,906.
Ito, Yoshiyuki; and Aihara, Toru, 3,695,377.
- Caterpillar Tractor Company: See—
Alexander, George F., 3,692,368.
Alexander, George F.; Kessinger, Orville E., Jr.; Rediger, John R.; and Reinsma, Harold L., 3,695,737.
Allen, Thomas E., 3,646,957.
Allen, Thomas E., 3,677,427.
Asal, Jerrold R.; and Piepho, Donald A., 3,670,825.
Audiffred, Sidney J.; Johnson, Lowell E.; and Pearce, Shairyl I., 3,673,799.

- Babbitt, John H., Jr.; Bell, Richard L.; Riedesel, Edwin L.; and Stark, Sheldon L., 3,632,134.
- Barnes, Randolph C., 3,640,146.
- Benning, Gregory M.; and Shipp, Dennis E., 3,643,357.
- Berg, Lawrence F., 3,704,650.
- Bieringer, Harold F.; Finley, Lloyd D.; and Sary, William R., 3,635,437.
- Black, William J.; Holmstrom, William L.; Liess, Richard K.; and Teasdale, Max J., 3,653,133.
- Borer, Herbert W.; Cryder, John R.; and Wirtz, Edward A., 3,670,628.
- Brandon, William D.; and Draiss, Jack A., 3,690,639.
- Brinkman, Dale C., 3,653,278.
- Butterfield, Max E., 3,640,035.
- Campbell, Trevar G.; Larson, Robert V.; Stahl, Sebald K.; Liess, Richard K.; and Rice, Roger A., 3,653,132.
- Clark, Richard B.; Morris, Hugh C.; and Whitehurst, Gerald E., 3,640,359.
- Coleman, Donald F.; and Fuzzell, Joe E., 3,694,671.
- Comer, Glen S., Jr., 3,707,200.
- Connor, Donald H.; and Olson, George E., 3,692,436.
- Costa, Philip Joseph, 3,680,760.
- Crabb, Elmer R.; and Warren, Larry G., 3,635,317.
- Crews, Donald R., 3,633,856.
- Dadds, Floyd S.; and Gee, James E., 3,679,216.
- Davies, James M.; Hackmann, Larry G.; Peterson, Robert A.; Smith, Roger M.; and Wirt, Leon A., 3,659,654.
- Eastman, Richard D., 3,661,539.
- Engel, William K.; Norick, William B.; Saint Germain, James L.; and Hakkenberg Van Gaasbeek, Peter, 3,635,126.
- Engelking, Frederick S.; and Loyd, Calvin D., 3,695,641.
- Erickson, Rodney R.; Matthews, Ralph W.; and Sprangel, Richard V., 3,687,160.
- Fangman, Charles N.; and Gutzwiller, Walter R., 3,653,369.
- Flint, Walker H.; and Chappell, Charles J., 3,634,955.
- Franz, Maurice F.; Herr, Charles H.; Newman, Harry B.; and Webber, Philip S., 3,667,309.
- Fryrear, Max D.; and Wilson, Eugene M., 3,653,451.
- Fuzzell, Joe E., 3,631,762.
- Fuzzell, Joe E., 3,659,734.
- Garman, James A.; Eastman, Richard D.; and Watson, Thomas A., 3,641,662.
- Glasse, Stephen F.; and Olson, George E., 3,651,636.
- Gresham, Clifford L.; and Robinson, Lorin A., 3,691,805.
- Groezinger, John J., 3,678,271.
- Gutman, Nathan; Moser, Raymond L.; Oldenburg, Dorrance; and Sunderlin, Donald E., 3,669,161.
- Gutman, Nathan; and Oldenburg, Dorrance, 3,688,822.
- Hackmann, Larry G.; and Schmitt, James L., 3,691,908.
- Hamilton, Thomas R., 3,657,830.
- Hammond, James T.; and Parks, John H., 3,645,245.
- Hautala, Richard E.; and Kern, Roy F., 3,657,800.
- Hein, Allyn J.; and Tribble, Gilbert, 3,707,113.
- Hnilicka, Eugene J.; and Cackley, George W., 3,680,929.
- Hufeld, John L.; Larson, Donald J.; Marsden, Howard A.; Mueller, James P.; and Norick, William B., 3,680,588.
- Johnson, Harold M.; and Page, Russel D., 3,677,350.
- Jones, Nelson A., 3,693,402.
- Karstensen, Karl W.; and Kizer, Richard W., 3,704,075.
- Kern, Roy F., 3,689,329.
- Keskitalo, Howard O., 3,658,198.
- Kiwelle, Josef; and Sage, Ira H., 3,659,771.
- Knell, Harvey A.; Olthoff, James A.; Scoggin, Barry A.; and Smith, Roger M., 3,706,143.
- Kostas, James M.; Norick, William B.; and Laughlin, Raymond R., 3,656,642.
- Little, Joseph P.; and Clouse, Jerry A., 3,669,576.
- Loyd, Calvin D., 3,693,235.
- Loyd, Calvin D., 3,694,896.
- Loyd, Calvin D.; Oberle, Theodore L.; and Satzler, Ronald L., 3,704,821.
- McMurray, Mitchell; Plouzek, Eugene A.; and Sturges, James R., 3,674,279.
- Moederndorfer, Herbert; and Schubert, George E., 3,661,234.
- Moser, Raymond L.; Oldenburg, Dorrance; and Sunderlin, Donald E., 3,687,023.
- Moser, Raymond L., 3,690,354.
- Moser, Raymond L., 3,693,678.
- Moser, Raymond L.; and Teasdale, Max J., 3,693,680.
- Olthoff, James A.; Smith, Roger M.; and Trittipoe, Jack H., 3,680,892.
- Page, Russel D.; Klingaman, Dean C.; and Scholl, Rolland D., 3,703,931.
- Peterson, Robert A., 3,631,930.
- Peterson, Robert A., 3,658,202.
- Peterson, Robert A.; Grooss, Frank A.; Morgan, William C.; Stedman, Robert N.; and Teasdale, Max J., 3,661,214.
- Peterson, Robert A., 3,707,048.
- Phelps, Weldon L.; and Smith, Kerwyn B., 3,654,518.
- Piepho, Donald A., 3,645,586.
- Poplawski, Eugene M., 3,650,568.
- Randour, Victor, 3,633,471.
- Reinsma, Harold L.; and Gee, James E., 3,631,615.
- Richards, Elmer A., 3,667,583.
- Rohweder, Gerald D.; and Windish, Willis E., 3,669,232.
- Ryberg, John G.; and Landen, Ernest W., 3,691,762.
- Schexnayder, Lawrence F., 3,654,836.
- Scholl, Rolland D., 3,675,169.
- Sebern, James R., 3,653,279.
- Shotwell, Daniel B.; and Ritter, Arthur J., 3,645,115.
- Smith, Donald L., 3,669,513.
- Soo, Shao L., 3,658,437.
- Spencer, Blaine G.; and Clinebell, Lyle R., 3,699,625.
- Stedman, Robert N., 3,659,112.
- Stedman, Robert N., 3,669,172.
- Sullivan, Robert J., 3,693,273.
- Updyke, Kenneth W.; and Grebner, William J., 3,670,092.
- Wagner, Donald E., 3,631,734.
- Wagner, Harold H., 3,659,113.
- Wagner, Harold H., 3,703,663.
- Wait, John D., Jr., 3,670,808.
- Weick, Louis F.; and Linne, William F., 3,673,796.
- Witzenburg, Martion J., 3,669,458.
- Zastrow, Virgil A., 3,664,761.
- Cates, Charles S.: See—
Burnett, Ernest G.; and Cates, Charles S., 3,680,870.
- Cates, John D., Jr. Liquid dispensing device. 3,664,387, 5-23-72, Cl. 141-238.
- Cates, Lindley A., to Research Corporation. Phosphorothioamides. 3,660,413, 5-2-72, Cl. 260-294.8.
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- Cather, Robert L. Weed guard for the hooks of a treble hook. 3,683,541, 8-15-72, Cl. 43-43.300.
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- Catholic Press Society, Inc.: See—
Person, Paul L., 3,682,744.
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Strobel, Albert F.; and Catino, Sigmund C., 3,644,466.
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- Cation, Kenneth L.: See—
Charlton, Thomas; and Cation, Kenneth L., 3,707,637.
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Folkers, Karl; Catlin, Joseph C.; and Daves, Glenn Doyle, Jr., 3,644,435.
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Oswalt, Leon M., 3,703,956.
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Waring, Roy L., 3,642,627.
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- Catoni, Mario: See—
Ronconi, Isidoro; Catoni, Mario; and Chini, Pier Lodovico, 3,655,829.
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- Catoul, Philippe Felix: See—
Hans, Andre Nicolas; and Catoul, Philippe Felix, 3,657,094.
- Catt, Kevin: See—

- Tregear, Geoffrey W.; Battaerd, Hendrik A. J.; Lang, Gunter A.; Catt, Kevin; and Niall, Hugh D., 3,700,609.
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- Cattano, Peter A., Sr. Swimming pool water clarifier. 3,631,987, 1-4-72, Cl. 210-452.
- Catterall, John M.: See—
- Burns, Thomas V.; Catterall, John M.; Elliott, Gary L.; and Fenstermaker, Ronald E., 3,643,034.
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- Stevens, John N., 3,698,349.
- Catulle, Lyderic G., to S.A. Sodiolox. Method for assembling together of frame sections. 3,673,674, 7-4-72, Cl. 29-464.
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- Caudle, James William: See—
- Loos, Edwin; and Caudle, James William, 3,697,101.
- Caulfield, Edward C. Release mechanism. 3,635,096, 1-18-72, Cl. 74-2.
- Cauge, Thomas Peter: See—
- Kocsis, Joseph; and Cauge, Thomas Peter, 3,675,092.
- Caule, Elmer J.: See—
- Ford, James A.; Saunders, Stuart R.; Caule, Elmer J.; and McLain, Charles D., 3,646,946.
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- Sellers, Aubrey G., 3,702,197.
- Cautilli, Philip A.: See—
- Makower, Samuel J.; and Cautilli, Philip A., 3,689,447.
- C.A.V. Limited: See—
- Dillon, Stanley Bernard; Mowbray, Dorian Farrar; and Kamp, Kenneth Albert Walters, 3,679,846.
- Drori, Moshe, 3,664,773.
- Fenne, Ivor, 3,663,123.
- Kellett, Eric, 3,633,521.
- Kellett, Eric, 3,666,302.
- Knight, Basil Edward, 3,669,360.
- Peltret, Pierre Henri, 3,699,816.
- Seilly, Alec Harry, 3,651,356.
- Welbourn, Donald Burkewood; Smith, James Derek; and Buckley, Bruce Robert Ashworth, 3,702,043.
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- Cavanna, Cesar E.: See—
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- Cave, Eric F.: See—
- Becke, Hans W.; Cave, Eric F.; and Stalnitz, Daniel, 3,659,334.
- Cave, James Patrick: See—
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- Cave, John T. Handtruck jig. 3,690,488, 9-12-72, Cl. 214-383.000.
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- Caven, Marjorie A.: See—
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- Moody, Roy A.; and Caveney, Jack E., 3,667,710.
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- Pregaglia, Gianfranco; Agamennone, Marco; and Cavilli, Luigi, 3,661,932.
- Cavin, Lewis Fred: See—
- Hilton, Joseph Lawrence; Graff, Charles Russell; and Cavin, Lewis Fred, 3,646,766.
- Hilton, Joseph Lawrence; Graff, Charles Russell; and Cavin, Lewis Fred, 3,690,388.
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- Fortner, William D., 3,675,751.
- Cavitron Corporation: See—
- Balamuth, Lewis, 3,635,609.
- Honig, William M.; Paschke, Richard H.; and Haggag, Jacob, 3,654,540.
- Kelman, Charles, 3,693,613.
- Kleesattel, Claus, 3,697,867.
- Cavitt, Roy L.: See—
- Miller, Richard G.; and Cavitt, Roy L., 3,671,291.
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- Ernst, Charles H.; and Cawley, Martin Dean, 3,680,944.
- Cawood Wharton & Company Limited: See—
- Cooper, Cyril Walker, 3,697,055.
- Saul, Geoffrey Hugh, 3,684,259.
- Cayle, Theodore; and Schleich, Hans, to Baxter Laboratories, Inc. Mannan depolymerase enzyme combination. 3,684,710, 8-15-72, Cl. 252-8.55r.
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- Moss, Theron V.; and Caylor, Ollie Ray, 3,636,603.
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- Johnson, Allan M.; and Gilman, Richard F., 3,697,410.
- Johnson, Allan M., 3,697,418.
- Marantz, Laurence B.; and Greenbaum, Michael A., 3,669,880.
- Raymond, Julius R., 3,703,959.
- Wichmann, Horst, 3,661,178.
- CCI Corporation: See—
- Goldsmith, Ave S., 3,685,853.
- Cea, Carmen Achille: See—
- Brown, Christopher Kingsley; Cea, Carmen Achille; and Warne, Thomas Parkison, Jr., 3,665,574.
- Cear, Stanley, to Atlas Chemical Industries, Inc. Rigid, low-density, filled cellular polyurethanes. 3,640,920, 2-8-72, Cl. 260-2.5.
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- Cospen, Jean; and Baumann, Bernard, 3,682,349.
- Prayer, Gerard; and Perrat, Jean-Marie, 3,670,919.
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- Little, John W.; and Cebula, Thaddeus J., 3,698,014.
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- Cecere, Andrew P.: See—
- Cohn, Eugene; Cecere, Andrew P.; and Frezza, Robert, 3,670,375.
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- Tarbet, Cecil Sidney Charles, 3,686,960.
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- Humbert, Marvin H., 3,686,768.
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- Cedrone, Vincent N.: See—
- Stollman, Richard A.; and Cedrone, Vincent N., 3,643,928.
- Ceelen, Theodore M.: See—
- Robbins, Neal R.; Ring, Howard Daniel; Wright, Gerard C.; Ceelen, Theodore M.; and Hotchkiss, Stuart E., 3,686,678.
- Cefilac: See—
- Eriksson, Erik G., 3,633,396.
- Sejournet, Jacques; and Garin, Jose Ignacio Martinez, 3,698,070.
- Cegedur GP: See—
- Colas, Francois, 3,675,596.
- Patrie, Jos, 3,664,932.
- Patrie, Jos, 3,704,209.
- Patrie, Jos, 3,704,210.
- Ceier, Richard R., to Cardiac Electronics, Inc. Protector circuit for cardiac apparatus. 3,653,387, 4-4-72, Cl. 128-2.06.
- Ceilcote Company, The: See—
- Klugman, Warren L., 3,645,510.
- Marshall, Robert M., 3,648,593.
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- Celanese Coatings Company: See—
- Aschkenasy, Herbert; Schuler, John Joseph, Jr.; and Bower, Jerry Efton, 3,677,984.
- Benefiel, James William; and Opioari, Anthony William, 3,639,147.
- Carlos, Donald Dante; and Shimp, David Alan, 3,703,497.
- Dukes, Clifford F.; and Scott, George B., 3,637,902.
- Mansour, Said K.; and Rehfsuss, John W., 3,654,201.
- McCartney, Roger L., 3,703,501.
- Schweri, Raphael Joseph, 3,647,567.
- Slater, William W.; and Thow, Lawrence E., 3,640,926.
- Wamsley, Robert Alan; Barnett, John Edward; Rose, Kenneth Ralph; and Jones, Gerald Stephan, 3,634,298.
- Wolfe, Norman Gilbert, 3,689,444.
- Yuille, Ernest Clark, 3,635,867.
- Celanese Corporation: See—
- Allen George C., 3,644,509.
- Allman, William T., Jr.; Joseph, Charles W.; and Higgins, Ralph G., Jr., 3,669,788.
- Annis, Darrell D.; Dodson, Keith D.; and Sykes, Paul M., 3,669,931.
- Bohrer, Thomas C., 3,651,194.
- Bohrer, Thomas C.; and Champ, Antony E., 3,655,857.
- Bohrer, Thomas C.; and Chen, David H. T., 3,657,411.
- Boon, Abraham A., 3,699,038.
- Braunstein, David M., 3,696,171.
- Braunstein, David M., 3,697,624.
- Brooks, Kenneth, 3,680,800.

- Calundann, Gordon W., 3,687,918.
 Campbell, Kenneth C.; Robinson, Donald E.; Rhinehart, R. Russell; and Truesdale, Wade J., 3,707,588.
 Castner, Claire; and Berard, Raymond A., 3,642,942.
 Castner, Claire J.; Russo, Robert V.; and Berard, Raymond A., 3,670,050.
 Champ, Antony E., 3,669,919.
 Champ, Antony E.; and Hendry, Charles Malcolm, 3,697,492.
 Christena, Ray C., 3,637,563.
 Conciatori, Anthony B., 3,637,602.
 Coplan, Myron J.; Freeman, Howard I.; and Panto, Joseph S., 3,661,853.
 Costanza, John R.; and Eisen, Bruce M., 3,707,430.
 Date, Raghunath V.; and Furness, George R., 3,669,938.
 Davis, Gerald W.; and Stackman, Robert W., 3,706,712.
 Di Pietro, Joseph, 3,703,392.
 Druin, Melvin L.; Loft, John T.; and Plovan, Steven G., 3,679,538.
 Evers, William L.; and Champ, Antony E., 3,658,705.
 Faust, Ellsworth E., 3,689,432.
 Ferment, George R., 3,656,910.
 Forschirm, Alex S.; and Trepasso, Louis E., 3,668,000.
 Gordon, Michael E., 3,658,749.
 Gubinsky, Louis; and Murphy, Stephen D., 3,665,696.
 Gump, Klaus H.; and Stuetz, Dagobert E., 3,647,770.
 Gump, Klaus H., 3,678,049.
 Hobbs, Charles C.; and Bedford, John A., 3,660,483.
 Horlenko, Theodore; and Tatum, Hopkins W., 3,652,545.
 Hou, Kenneth C., 3,677,799.
 Huguet, Juan L., 3,692,636.
 Huguet, Juan Luis, 3,637,515.
 Isaacson, Robert B., 3,666,517.
 Jamison, Saunders E., 3,671,471.
 Jamison, Saunders E., 3,681,472.
 Juelke, Charles V.; and Trapasso, Louis E., 3,681,281.
 Kalnin, I. L.; and Breckenridge, G. J., 3,677,804.
 Kalnin, Ilmar L.; and Breckenridge, George J., 3,674,581.
 Kalnin, Ilmar L., 3,691,000.
 Keuchel, Herbert W., 3,641,760.
 Koh, Lita L.; and Witt, Enrique R., 3,639,450.
 Larkin, Donald R., 3,706,785.
 Levy, Leon B., 3,637,526.
 Levy, Leon B., 3,703,551.
 Lipe, Jerome G., 3,673,036.
 Loft, John T.; Conciatori, Anthony B.; and Chenevey, Edward C., 3,671,491.
 Loft, John T.; Plovan, Steven G.; and Vogt, Clifford M., 3,690,977.
 MacLean, Alexander F.; and Stautzenberger, Adin L., 3,689,377.
 Martin, Preston Kuhn; and Kelly, Richard Howard, 3,706,672.
 McAndrew, France B.; Polly, George W.; and Heinz, Walter E., 3,641,192.
 Mesich, Frank G., 3,644,497.
 Moussalli, Francis S., 3,632,363.
 Moussalli, Francis Selim, 3,640,881.
 Muratorio, Jorge R., 3,636,155.
 Muratorio, Jorge R., 3,674,830.
 Organ, Glenn E.; and Wile, Ronald H., 3,699,054.
 Palm, Clifford W.; and Gibson, William R., 3,640,064.
 Patterson, Carl Dean, 3,648,712.
 Polestak, Walter J., 3,668,060.
 Powell, Stencil Driftwood, 3,692,559.
 Prinz, Roy H., 3,706,793.
 Ram, Michael J., 3,656,904.
 Ram, Michael J.; and Riggs, John P., 3,657,409.
 Ram, Michael J.; Riggs, John P.; and Clarke, Charles M., 3,677,705.
 Ram, Michael J., 3,705,675.
 Randall, John Courtright; and Riek, Marvin Roy, 3,636,825.
 Reader, Arthur M.; and Stackman, Robert W., 3,673,158.
 Rhodes, Cecil John, 3,692,603.
 Riggs, John Perry, 3,650,668.
 Riggs, John Perry, 3,656,882.
 Riggs, John Perry, 3,656,883.
 Roberts, John D.; Ellenberg, John D.; and Keith, Charles H., 3,656,484.
 Serad, George Allibone, 3,634,575.
 Sistare, Vann M.; and Brooks, Kenneth, 3,642,217.
 Soehngen, John W., 3,676,239.
 Stackman, Robert W.; and Sargent, Donald E., 3,661,504.
 Starr, Leon; Runyon, David Jon; and Mills, Albert T., 3,635,882.
 Starr, Leon; and Runyon, David Jon, 3,699,062.
 Stuetz, Dagobert E., 3,632,092.
 Stuetz, Dagobert E.; Belohlav, Leo R.; and Reader, Arthur M., 3,634,035.
 Stuetz, Dagobert E., 3,656,903.
 Stuetz, Dagobert E., 3,671,488.
 Thigpen, Hubert H.; and Trebellas, John C., 3,660,491.
 Trapasso, Louis E., 3,706,707.
 Trotter, Frederick J., Jr., 3,702,128.
 Vandermaas, Joseph K.; Rikard, Larry J.; Dunlap, Robert K.; and Lavender, James F., 3,690,942.
 Vogelfanger, Elliot A., 3,679,636.
 Vogelfanger, Elliot A., 3,696,076.
 Wagner, William Sherwood; and Roberts, John Drew, 3,634,573.
 Watson, George A., 3,660,867.
 Watson, George A., 3,664,115.
 Watson, George A., 3,681,796.
 Wilbur, Arnold Gesner, 3,632,787.
 Witt, Enrique R.; and Larkin, Donald R., 3,644,484.
 Witt, Enrique R.; and Blay, Jorge A., 3,644,507.
 Witt, Enrique R.; and Blay, Jorge A., 3,654,350.
 Witt, Enrique R., 3,654,351.
 Witt, Enrique R.; Humphrey, William J.; and Schnizer, Arthur W., 3,654,352.
 Witt, Enrique R.; and Cave, James Patrick, 3,694,490.
 Zey, Edward G., 3,652,647.
 Zimmerman, Daniel; and Wolfowitz, Stanley, 3,679,540.
 Celanese Corporation of America: *See—*
 Epstein, Martin Eden; Rosenthal, Arnold Joseph; and Santangelo, Joseph Germano, 3,669,934.
 Gordon, William E., 3,692,823.
 Jamison, Saunders Eliot, 3,681,488.
 Keuchel, Herbert W., 3,663,677.
 Celentano, Robert A.: *See—*
 Amberger, Donald J.; and Celentano, Robert A., 3,678,362.
 Celfil Company Establishment: *See—*
 Muller, Paul Adolf, 3,646,855.
 Celio, Tino: *See—*
 Schaub, Heiner; Thaddey, Kurt; and Celio, Tino, 3,672,768.
 Cella, John A.; and Schmitt, William H., to Alberto-Culver Company. Tooth paste having improved tooth cleaning properties. 3,703,578, 11-21-72, Cl. 424-49,000.
 Cellerini, Albert R., to Westinghouse Electric Corporation. Circuit breaker with improved current path and contact means. 3,662,134, 5-9-72, Cl. 200-146.
 Cellerini, Albert T.; Majcher, John; and Paton, Charles R., to Westinghouse Electric Corporation. Drawout switchgear. 3,681,545, 8-1-72, Cl. 200-50,0aa.
 Cellini, Michael: *See—*
 Romanowski, Robert F.; and Cellini, Michael, 3,705,964.
 Cellini, Vito; and Casale, Ronald, said Celini assor. to said Casale, Ronald. Locking device including camming key for releasing spring catch members. 3,659,442, 5-2-72, Cl. 70-63,000.
 Cello Chemical Company, The: *See—*
 Okon, Nathaniel N., 3,684,325.
 Cello Products Company: *See—*
 Doll, Brendan L., 3,703,116.
 Doll, Martin, 3,642,967.
 Doll, Martin; and Von Drehle, Frank, 3,670,345.
 Cello-Craft Inc.: *See—*
 Braun, Samuel; Witkoff, Robert; and Northrop, George, 3,650,382.
 Warren, Barney, 3,680,768.
 Celmac Plasclip Limited: *See—*
 Oliver, Keith H.; and Taylor, Donald, 3,694,989.
 Celmer, Blase G.: *See—*
 Rafalski, Michael J., Jr.; and Celmer, Blase G., 3,635,503.
 Celmer, Walter D.: *See—*
 Sciavolino, Frank C.; Routien, John B.; Tynan, Edward J.; and Celmer, Walter D., 3,655,876.
 Celotex Corporation, The: *See—*
 Herrell, Robert E.; and Moore, Stephen G., 3,685,253.
 Medica, Joseph J.; Trout, Kenneth G.; and Kyminas, Stanley C., 3,655,594.
 Piccola, Richard C., 3,704,212.
 Wiegand, Edward A., 3,704,548.
 Celotex Corporation, The, mesne: *See—*
 Bieler, Arthur, 3,654,051.
 White, Richard N.; and Wilkin, Joseph D., 3,668,826.
 Celovsky, Michael E., to Industrial Tool Engineering Company. Electric arc machining apparatus for manufacturing dies and rolls. 3,660,628, 5-2-72, Cl. 219-69.
 C.E.M. Company, Inc.: *See—*
 Kochl, Hans H., 3,662,428.
 Cemtech Corporation: *See—*
 Karras, Ernest C.; and Cain, Lester R., 3,663,756.
 Cena, Arnulfo O. Rotary piston machine. 3,645,239, 2-29-72, Cl. 123-8,07.
 Cenci, Harry J.; and Stevens, Travis E., to Rohm & Haas Company. Unsaturated quaternary monomers and polymers. 3,689,468, 9-5-72, Cl. 260-86,100.
 Cencioni, Livio. Hinge for internal surface mounting, for doors of pieces of furniture or cabinet doors in general. 3,673,635, 7-4-72, Cl. 16-163,000.
 Cenco Medical/Health Supply Corporation, mesne: *See—*
 Adams, Robert P., 3,639,999.
 Cenker, Moses, to BASF Wyandotte Corporation. Toluene diisocyanate compositions. 3,640,886, 2-8-72, Cl. 252-182.

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 Cenker, Moses; and Kan, Peter T., to BASF Wyandotte Corporation. Catalyst and process for the preparation of 1,3-cyclohexanediamines. 3,657,152, 4-18-72, Cl. 252-443.
 Cense, Adriaan: *See—*
 Wensink, Bernardus Leonardus; and Cense, Adriaan, 3,666,995.
 Wensink, Bernardus Leonardus; and Cense, Adriaan, 3,676,714.
 Centala, John P., to Collins Radio Company. Self-excited inverter employing commutation time transformers. 3,638,099, 1-25-72, Cl. 321-45.
 Centala, John P.; and Lane, Royce W., to Collins Radio Company. Circuit to prevent a transformer from presenting a low impedance upon core saturation. 3,638,100, 1-25-72, Cl. 321-45.
 Centaur Mini Computer Devices Inc.: *See—*
 Wayne, Ronald G., 3,684,290.
 Centenary Central, Inc.: *See—*
 Sauer, Louis E.; and Miller, Orville C., 3,696,480.
 Center for New Products Development: *See—*
 McLaughlin, James Hugh, 3,689,437.
 Center for Scientific Studies, Inc.: *See—*
 Schmitt, Peter C.; Vette, Carl W.; and Meyer, Amos J., II, 3,702,899.
 Center, John L., to Vicra Sterile, Inc. Separable catheter insertion device. 3,682,173, 8-8-72, Cl. 128-214,400.
 Centofante, James Vincent. Adjustable magnetic door stop. 3,701,557, 10-31-72, Cl. 29-251,500.
 Centofanti, Armando P. Balloon and parachute combination. 3,679,155, 7-25-72, Cl. 244-32,000.
 Centolella, Albert Peter; and Razor, Billy Gene, to Miles Laboratories, Inc. Polyesters of citric acid and sorbitol. 3,661,955, 5-9-72, Cl. 260-404.
 Centolella, Albert Peter; and Razor, Billy Gene, to Miles Laboratories, Inc. Yeast raised baked products and preparation thereof. 3,667,966, 6-6-72, Cl. 99-91,000.
 Centra Anstalt: *See—*
 Bertoglio, Guido D., 3,643,399.
 Central Glass Co., Ltd.: *See—*
 Kadotani, Makoto; and Isobe, Seishiro, 3,656,894.
 Simomura, Katsuyasu, 3,693,852.
 Yasumura, Takashi; and Matsuoka, Kimiaki, 3,642,732.
 Central Mine Equipment Company: *See—*
 Rassieur, Charles L., 3,640,354.
 Central Moloney Inc.: *See—*
 Muschong, Peter W., 3,662,308.
 Central National Bank: *See—*
 McIntosh, Maurice Dwight, 3,642,650.
 Central Paper Company: *See—*
 Paull, Henry, Jr., 3,672,507.
 Central Screw Company: *See—*
 Warren, Ross B., 3,648,749.
 Central Specialties Co.: *See—*
 Ballenger, William C., 3,698,656.
 Ballenger, William G., 3,679,160.
 Rotheiser, Jordan I., 3,635,232.
 Rotheiser, Jordan I., 3,664,466.
 Central Transformer, Inc.: *See—*
 Muschong, Peter W., 3,639,678.
 Centrale d'Exploitation et de Commerce: *See—*
 Usse, Jean E.; and Spindler, Henri, 3,662,283.
 Centralne Laboratorium Ostyki: *See—*
 Borkowski, Wieslaw K.; Pluta, Maksymilian; and Popielas, Maciej, 3,652,163.
 Centre de Recherches de Pont-A-Mousson: *See—*
 Bouyt, Jean Roger, 3,662,815.
 Bouyt, Roger Jean, 3,682,232.
 Bram, Georges Eugene, 3,653,691.
 Comte, Bernard Michel; and Gareaux, Jean-Marie Louis Philippe, 3,635,281.
 Fuminier, Claude, 3,658,033.
 Guenzi, Eraldo Serafino, 3,648,763.
 Hauth, Jean-Marc, 3,642,101.
 Malivoir, Roger, 3,639,720.
 Malivoir, Roger Marcel, 3,659,555.
 Centre d'Etude de l'Energie Nucleaire en abregé 'C.E.N.': *See—*
 Constant, Rene, 3,662,083.
 Centre d'Etudes Experimentales et Cliniques de Physiobiologie, de Pharmacologie et d'Eutonologie: *See—*
 Laborit, Henri, 3,651,237.
 Centre d'Etudes Techniques des Industries de l'Habillement: *See—*
 Fay, S., 3,633,526.
 Centre Electronique Horloger SA: *See—*
 Challandes, Claude, 3,665,699.
 Choffat, Hubert, 3,678,309.
 Fellrath, Jean; and Challandes, Claude, 3,631,669.
 Nikles, Francois; and Oguey, Henri T., 3,656,033.
 Vittoz, Eric Andre, 3,700,916.
 Centre Europeen de Recherches Mauvernay C.E.R.M.: *See—*
 Mauvernay, Roland Yves; Busch, Norbert; Simond, Jacques; and Moleyre, Jacques, 3,676,496.
 Mauvernay, Roland-Yves; Busch, Norbert; Simond, Jacques; and Moleyre, Jacques, 3,663,566.
 Centre for Industrial Research, The National Council for Research and Development: *See—*
 Dolev, Amior; Mannheim, Chaim H.; and Schimmel, Moshe, 3,692,546.
 Centre National de la Recherche Scientifique: *See—*
 Bourdais, Jacques, 3,665,016.
 Chapiro, Adolphe; and Jendrychowska-Bonamour, Anna-Maria, 3,666,693.
 Rips, Richard, 3,644,352.
 Centre National de Recherches Metallurgiques: *See—*
 Braggard, Adolphe Andre, 3,655,428.
 Denis, Etienne Marie, 3,652,262.
 Hans, Andre Nicolas; and Catoul, Philippe Felix, 3,657,094.
 Centre National d'Etudes Spatiales: *See—*
 Grundschober, Friedrich; and Arendt, John Harry, 3,681,284.
 Manuali, Bertrand Claude Marcel Jean; Douillet, Robert; and Laedlein, Denis Jacques, 3,648,114.
 Petit, Gerard; and Bricard, Pierre, 3,706,986.
 Randoing, Jean-Martial, 3,705,353.
 Centre Stephanois de Recherches Mecaniques Hydromecanique et Frottement: *See—*
 Michalon, Daniel, 3,687,180.
 Centre Technique de l'Industrie des Papiers, Cartons et Celluloses: *See—*
 Jacquelin, Guy, 3,654,074.
 Jacquelin, Guy, 3,669,011.
 Centre Technique du Cuir: *See—*
 Barre, Jean-Gabriel; and Diez, Jean-Marie, 3,663,679.
 Centro Ricerche Metallurgiche S.p.A.: *See—*
 Scacciati, Giovanni; and Lanfranco, Giovanni, 3,689,385.
 Scacciati, Giovanni; and Lanfranco, Giovanni, 3,689,386.
 Centro Sperimentale Metallurgico S.p.A.: *See—*
 Bombara, Giuseppe A., 3,694,334.
 Centron Engineering Inc.: *See—*
 May, Donald L., 3,694,086.
 Centronics Data Computer Corporation: *See—*
 Howard, Robert; Robinson, Prentice I.; and Menhennett, Herbert E., 3,703,949.
 Century Data Systems, Inc.: *See—*
 Cantwell, Gill, 3,702,461.
 Century Engineering Corporation: *See—*
 Merfeld, Michael J.; and Truesdell, Merlyn R., 3,675,851.
 Century Lighting, Inc.: *See—*
 Marantz, Paul M., 3,643,089.
 Century Projector Corporation: *See—*
 Chitty, Michael W., 3,647,157.
 Ceplus, Stanley A.: *See—*
 Pollard, Melville R., Jr., 3,635,137.
 CER Geonuclear Corporation: *See—*
 Knutson, Carroll F.; and Boardman, Charles Robert, 3,674,313.
 Ceramco, Inc.: *See—*
 Brigham, Kristin; and Vickery, Ronald C., 3,647,488.
 Brigham, Kristin; and Vickery, Ronald C., 3,649,732.
 Ceramic Magnetics, Inc.: *See—*
 Lang, Alphonse Gregory, Jr., 3,655,923.
 Ceramic Metal Systems, Incorporated: *See—*
 Griffin, William F.; and Morena, Alfred, Jr., 3,634,600.
 Ceraver: *See—*
 Willem, Michel, 3,703,606.
 Cerbati, Guido; and Turbanti, Luigi. Tropine esters of 2-phenyl-4-pentynic acid. 3,687,955, 8-29-72, Cl. 260-292,000.
 Cerberus AG: *See—*
 Gnagi, Alex; and Muller, Peter, 3,665,461.
 Purr, Gustav; Bosshard, Walter; and Meier, Gerhard, 3,693,401.
 Scheidweiler, Andreas; and Meier, Otto, 3,676,680.
 Walthard, Beat; Scheidweiler, Andreas; and Kuhn, Max, 3,678,510.
 Cerchia, Angelo: *See—*
 Klein, Ralph Arthur; and Cerchia, Angelo, 3,658,556.
 Cercone, Daniel. Shoe comb and attachment. 3,648,370, 3-14-72, Cl. 30-201.
 Cerda, Elisabeth: *See—*
 Szmuskovicz, Jacob; and Cerda, Elisabeth, 3,657,338.
 Cerebro-Dynamics, Incorporated: *See—*
 Cruet, Arturo M., 3,653,215.
 Cereghino, Bruce R.; and Rostek, Paul M., to Lear Siegler, Inc. Testing a signal voter. 3,639,778, 2-1-72, Cl. 307-204.
 Cerez, Pierre: *See—*
 Kastler, Alfred; Arditi, Maurice; and Cerez, Pierre, 3,667,066.
 Cerferus AG: *See—*
 Scheidweiler, Andreas; Muller, Peter; and Kuhn, Max, 3,681,603.
 Cermak, Robert E., to SCM Corporation. Process for preparing condiment-containing fatty particulates. 3,647,480, 3-7-72, Cl. 99-140.
 Cernei, Edward J. Container for keeping liquids in separate condition and commingling and dispensing the same. 3,651,990, 3-28-72, Cl. 222-94.

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- Cerney, Tina M.: *See—*
Cerney, Florian B.; and Cerney, Tina M., 3,659,535.
- Cerniway, Leon A.: *See—*
Jordan, Lewis W.; and Cerniway, Leon A., 3,654,413.
- Cernoch, Werner J.: *See—*
Marschik, John F.; and Cernoch, Werner J., 3,652,265.
- Cerny, Arnost: *See—*
Jurny, Josef; and Cerny, Arnost, 3,635,167.
- Cerny, Daryl D.: *See—*
Mixell, Ronald G.; and Cerny, Daryl D., 3,659,987.
- Cerny, Harry E.: *See—*
Speransky, Jaroslav; and Cerny, Harry E., 3,633,961.
Speransky, Jaroslav; and Cerny, Harry E., 3,665,232.
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- Cerrone, Anthony G.: *See—*
Heitman, George H.; Strom, Eric T.; and Cerrone, Anthony G., 3,691,811.
- Certain-Teed Products Corporation: *See—*
Alpine, Albert Earl, 3,638,972.
Harbison, James E., 3,667,977.
Heilmayr, Peter F.; Kimbrell, Sol B.; and Giuffre, Joseph C., 3,674,388.
Hensley, Billy R., 3,642,554.
Kimbrell, Sol B., 3,656,385.
Tilbrook, Kenneth B., 3,647,382.
- Certain-Teed Saint Gobain Insulation Corporation: *See—*
Waksman, David, 3,654,966.
Waksman, David; and Stewart, James R., 3,668,039.
- Certex, Inc.: *See—*
French, John J., 3,645,432.
Milligan, Lee J.; and Mayer, Douglas M., 3,643,890.
- Certified Concrete Limited: *See—*
Sutherland, William Morley, 3,631,831.
- Certron Corporation: *See—*
Patel, Shashikant M., 3,635,414.
Weyrich, Arthur G.; Bertrand, Richard R.; and Karinski, Edwin D., 3,691,425.
- Cerulli, Nicholas F.: *See—*
Pakutka, Willard M.; Cerulli, Nicholas F.; and Scanlon, Gerald T., 3,636,297.
- Cerutti, Giacomo, to Bemberg S.p.A. Method for producing a thermoplastic synthetic yarn having a latent crimp. 3,673,650, 7-4-72, Cl. 28-72.100.
- Cerutti, Giovanni: *See—*
Costa, Armando; and Cerutti, Giovanni, 3,707,262.
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- Cervantez, Teodoso, 25% to Haile, J. B. Vehicle-attachable carrier for a workman and a supply of irrigation tubes. 3,649,041, 3-14-72, Cl. 280-32.5.
- Cervenak, Peter J., to Nicholson Manufacturing Company. Log barker delimiter and refuse-reducing mechanism. 3,653,417, 4-4-72, Cl. 144-3.
- Cervenka, Joseph J.; and Hetzel, Marvin E. Clip. 3,646,654, 3-7-72, Cl. 29-190.
- Cerveny, Daniel H.; Johnson, Perry T.; and Gaston, Donald H. Folding cart. 3,704,025, 11-28-72, Cl. 280-41.00a.
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- Cerwenka, Peter: *See—*
Kleinagauer, Otmär; Cerwenka, Peter; and Neubauer, Ewald, 3,667,538.
- Cesare, Frank C.: *See—*
Miller, Robert; Clarkson, Robert J.; and Cesare, Frank C., 3,686,848.
- Cesarotti, Mario: *See—*
Berne, Adriano; Cesarotti, Mario; and Benedetti Michalagelli, Glauco, 3,668,537.
- Cesca, Sebastiano: *See—*
Arrighetti, Sergio; Vajna, Eugenio; and Cesca, Sebastiano, 3,676,510.
Arrighetti, Sergio; Vajna, Eugenio; and Cesca, Sebastiano, 3,676,511.
- Arrighetti, Sergio; Vajna, Eugenio; and Cesca, Sebastiano, 3,676,512.
- Corradini, Giorgio; Ghetti, Giuseppe; Cesca, Sebastiano; and Roggero, Arnaldo, 3,668,156.
- Corradini, Giorgio; Ghetti, Giuseppe; Cesca, Sebastiano; and Arrighetti, Sergio, 3,691,141.
- Cesca, Sebastiano; Roggero, Arnaldo; Priola, Aldo; and Cinelli, Ermanno, to Snam Progetti S.p.A. Polycyclic polyene hydrocarbons and process for the preparation thereof. 3,646,105, 2-29-72, Cl. 260-666.
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- Ceschini, Eugene S., to Gulf Research & Development Company. Shifting data display. 3,696,396, 10-3-72, Cl. 340-336.000.
- Cesco Mfg. Corporation: *See—*
Glass, Robert I.; Phillips, William; and House, William R., 3,695,125.
- Cesenek, Bedrich: *See—*
Prochazka, Miloslav; Cesenek, Bedrich; Mach, Vladimir; Kaulich, Karel; Zdenka, Cervený; and Bradzda, Ladislav, 3,648,450.
Prochazka, Miloslav; Seidl, Karel; and Cesenek, Bedrich, 3,678,673.
- Ceska, Miroslav: *See—*
Ingelman, Bjorn G.; and Ceska, Miroslav, 3,676,303.
- Ceskoslovenska akademie ved: *See—*
Barta, Cestmir, 3,704,103.
Binek, Bedrich; and Ullmann, Werner, 3,644,743.
Bukac, Zbynek; and Sebens, Jan, 3,639,360.
Chromcek, Richard; Meinhold, Leopold; Otoupalova, Jaroslava; and Kruntorad, Vlastimil, 3,632,381.
Dohnalova-Binkova, Blanka; and Binek, Bedrich, 3,700,170.
Emr, Antonin; and Pribil, Rudolf, 3,669,988.
Figar, Stephan, 3,650,265.
Hejno, Karel; Jarolim, Vaclav; Slama, Karel; and Sorm, Frantisek, 3,636,018.
Hrdina, Jiri, 3,640,822.
Jarolim, Vaclav; Hejno, Karel; Slama, Karel; and Sorm, Frantisek, 3,637,674.
Jarolim, Vaclav; Hejno, Karel; Slama, Karel; and Sorm, Frantisek, 3,657,291.
Kliment, Karel; Vacik, Jiri; Ott, Zdenek; Majkus, Vladimir; Stol, Miroslav; Stoy, Vladimir; and Wichterle, Otto, 3,689,634.
Kolinsky, Miloslav, 3,698,439.
Marek, Miroslav; Pecka, Jan; Chmelir, Miroslav; and Roosova, Milena, 3,639,661.
Rod, Vladimir; Bazant, Vladimir; and Sir, Zdenek, 3,694,497.
Romanuk, Miroslav; Slama, Karel; and Sorm, Frantisek, 3,634,470.
Romanuk, Miroslav; Slama, Karel; and Sorm, Frantisek, 3,674,819.
Romanuk, Miroslav; Sorm, Frantisek; and Slama, Karel, 3,707,491.
Schenk, Vladimir; Pros, Zdenek; and Wanek, Ludvik, 3,638,053.
Stoy, Vladimir; Stol, Miroslav; Prokopova, Helena; and Kliment, Karel, 3,691,263.
Tomanec, Ladislav; and Pospisil, Karel, 3,683,698.
Vit, Jaroslav; Casensky, Bohuslav; Mamula, Milan; and Machacek, Jiri, 3,652,622.
Wichterle, Otto, 3,660,545.
Wichterle, Otto, 3,679,504.
Wichterle, Otto, 3,699,089.
Zelnik, Anrej; Kozmal, Frantisek; Domansky, Radislav; and Pajtik, Josef, 3,660,245.
- Ceskoslovensky uranovy prumysl, oborovy podnik: *See—*
Mares, Vladimir, 3,659,656.
Mares, Vladimir, 3,664,486.
- Cesoa, Sebastiano: *See—*
Marconi, Walter; Cesoa, Sebastiano; and Roggero, Arnaldo, 3,654,246.

- Cessna Aircraft Company, The: *See—*
Krehbiel, Robert D.; and McCammond, Warren E., 3,659,325.
Martin, Robert J., 3,698,287.
Phillips, John F., 3,650,182.
Reimer, Leonard H., 3,698,189.
- Cessna, James W. Sliding gate valve having spring braced slide. 3,685,705, 8-22-72, Cl. 222-504.000.
- Cessna, Lawrence C., Jr., to Hercules Incorporated. Extrusion process. 3,651,187, 3-21-72, Cl. 264-108.
- Cesson, Theophile Francois Le Maout: *See—*
Camboulives, Andre Alphonse Mederic Leon; Delonge, Jean-Claude Lucien; Cesson, Theophile Francois Le Maout; and Vandenbroucke, Alfred Jiles, 3,687,222.
- Cestone, Ralph M.; and Cestone, Vincent. Precision hydraulic lifting device. 3,680,837, 8-1-72, Cl. 254-89.00h.
- Cestone, Vincent: *See—*
Cestone, Ralph M.; and Cestone, Vincent, 3,680,837.
- Cevdalli, Guidobaldo; Ragazzini, Mario; and Modena, Mario, to Montecatini Edison S.p.A. Copolymers of carbon monoxide with carbonyl compounds and process for their preparation. 3,673,156, 6-27-72, Cl. 260-67.0rp.
- Ceyzeriat, Louis: *See—*
Boissieras, Jean; Ceyzeriat, Louis; and Poy, Guy, 3,697,568.
- CF & I Engineers, Inc.: *See—*
Steele, Clarence R., 3,666,556.
Steele, Clarence R.; Price, Frank B.; and Marshall, John M., 3,697,324.
- CF & I Steel Corporation: *See—*
Massara, John A., 3,661,006.
Richardson, James H., Jr., 3,664,601.
- C.F. & Martin Company: *See—*
Morena, John; and Grauso, Robert N., 3,680,425.
- CGR Medical Corporation: *See—*
Asars, Juris A.; and Schneeberger, Robert J., 3,668,396.
Koerner, Harry E.; and Horsey, William C., 3,707,630.
- CGR Medical Corporation, mesne: *See—*
Colston, John Ronald, 3,707,629.
Duffy, Philip A., Jr.; and Siedband, Melvin P., 3,633,029.
James, Jack L.; and Euler, Fred J., 3,636,355.
Jones, William E. M.; and Richard, James A., 3,643,604.
Siedband, Melvin P.; and James, Jack L., 3,634,871.
Siedband, Melvin P.; Duffy, Philip A., Jr.; and James, Jack L., 3,675,020.
- Cha, Bernard: *See—*
Alagy, Jacob; Bigache, Francois; and Cha, Bernard, 3,683,035.
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- Chabala, Leonard V., to S & C Electric Company. High voltage switch with preinsertion resistor connected in the circuit through graphite corona balls. 3,697,712, 10-10-72, Cl. 200-146.00r.
- Chabanov, Alim Ivanovich: *See—*
Sokolov, Evgeny Vyacheslavovich; Yashkin, Eduard Petrovich; Sysoev, Vadim Ivanovich; Kozhevnikov, Rady Savvich; Chabanov, Alim Ivanovich; Shinkarenko, Mikhail Ivanovich; Grinchuk, Petr Stepanovich; Fomin, Georgy Georgievich; and Rusaev, Vladimir Ivanovich, 3,686,907.
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- Chabardes, Pierre; Gandillon, Pierre; Grard, Charles; and Thiers, Michel, to Rhone-Poulenc S.A. Process for the preparation of aliphatic dinitriles. 3,671,569, 6-20-72, Cl. 260-465.80d.
- Chabek, Kurt Herwig, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Independent wheel suspension for vehicles. 3,652,104, 3-28-72, Cl. 280-96.2.
- Chabert, Henri, to Rhone-Poulenc S.A. Anion exchange copolymers. 3,644,226, 2-22-72, Cl. 260-2.1.
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Bonnet, Henri Camille; and Chabert, Jean Edmond, 3,686,064.
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- Chabot, Ferdinand E., to Square D Company. Parallel-pole circuit breaker. 3,706,056, 12-12-72, Cl. 335-10.000.
- Chabot, Leo L., to North American Rockwell Corporation. Open End electrostatic spinning head. 3,699,760, 10-24-72, Cl. 57-58.890.
- Chabot, Ronald W.; Leonard, George S.; and Sheena, David, to Whittaker Corporation. Movement monitoring apparatus. 3,699,856, 10-24-72, Cl. 95-1.100.
- Chabreire, Jean-Pierre; and Mailfert, Alain Jacques. Homopolar machine with multiple discs and a short inductor. 3,705,995, 12-12-72, Cl. 310-178.000.
- Chabrier, Martial, to C.N.M.P. Berthiez. Tool support for a machine tool. 3,695,127, 10-3-72, Cl. 82-36.00r.
- Chace, Donald E.; Melvin, James A., Jr.; Ricketts, Alan W., Jr.; Steinberger, Edward P.; and Symmes, David T., to Digital Equipment Corporation. Analyzer for sequencer controller. 3,701,113, 10-24-72, Cl. 340-172.500.
- Chace, Richard L.; and Haun, Burton O., to General Electric Company. Back wired mounting system for static control. 3,702,983, 11-14-72, Cl. 339-126.00r.
- Chace, W. M., Company: *See—*
Steigelman, James Q., 3,693,243.
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Reiss, Alice M.; and Chachowski, Rosemary K., 3,658,982.
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- Chacon, Raul J.: *See—*
Kadron, Stanley F.; Eisenhauer, Gary L.; Pryor, David J.; and Chacon, Raul J., 3,704,423.
- Chadbourne, Gilbert R., to Keyes Fibre Company. Molded packaging tray. 3,651,976, 3-28-72, Cl. 220-23.4.
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- Chaddha, Ashwani K. Modem controller. 3,644,896, 2-22-72, Cl. 340-172.5.
- Chadenson, Pierre, to Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM). Mercury manometer. 3,667,298, 6-6-72, Cl. 73-405.
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- Chadha, Desh D.: *See—*
Pickett, Charles G.; and Chadha, Desh D., 3,704,985.
- Chadha, Rajendra N.; Arthur, Ralph P.; and Schweiker, George C., to Shingleton, Carroll R. and Borg-Warner Corporation. High temperature nitrile elastomer. 3,697,489, 10-10-72, Cl. 260-80.700.
- Chadha, Rajendra Nath; and Pande, Kailash Chandra, to Stauffer-Wacker Silicone Corporation. Room temperature curing organopolysiloxane elastomers. 3,664,997, 5-23-72, Cl. 260-185.
- Chadima, George E.: *See—*
Iliff, Walter R.; Holt, John M.; Chadima, George E.; and Brown, Robert G., 3,699,324.
- Chadsey, Earl E., Jr.; and Feakes, Frank, to National Research Corporation. Method of coating stiff materials onto fragile, heat vulnerable substrate webs. 3,660,146, 5-2-72, Cl. 117-106.
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- Chadwick, Alexander, to Chrysler Corporation. Adjustable valve timing for NO₂ control. 3,683,875, 8-15-72, Cl. 123-90.150.
- Chadwick, Cecil G., to Union Carbide Corporation. Method of producing sized particles of low carbon ferrochromium. 3,635,699, 1-18-72, Cl. 75-130.5.
- Chadwick, Eric Milton: *See—*
Batty, John Woolley; Chadwick, Eric Milton; and Crook, James William, 3,644,535.
- Chadwick, George F., to Air Reduction Company, Incorporated. Use of an unadvanced silicone resin binder in resistor manufacture. 3,689,618, 9-5-72, Cl. 264-104.000.
- Chadwick, Philip, to General Electric Company. Minimum valve voltage method and control apparatus for HVDC power converters. 3,701,938, 10-31-72, Cl. 321-11.000.
- Chadwick, William R., to United States of America, Navy. Gun-launched glide vehicle with a mid-course and terminal guidance control system. 3,695,555, 10-3-72, Cl. 244-3.140.
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Helmuth, James G., 3,654,804.
- Chafaris, George J., to General Electric Company. Method and apparatus for reproducing optical information. 3,655,371, 4-11-72, Cl. 96-1.1.
- Chafetz, Harry: *See—*
Bialy, Jerzy J.; Siegert, William R.; Blackley, William D.; and Chafetz, Harry, 3,652,238.
Larkin, John M.; and Chafetz, Harry, 3,661,950.
Mead, Theodore C.; and Chafetz, Harry, 3,647,886.
Patmore, Edwin L.; Siegert, William R.; and Chafetz, Harry, 3,658,874.
Patmore, Edwin L.; Siegert, William R.; and Chafetz, Harry, 3,689,539.
Patmore, Edwin L.; Siegert, William R.; and Chafetz, Harry, 3,692,826.
Patmore, Edwin L.; Siegert, William R.; and Chafetz, Harry, 3,696,146.
Smetana, Richard D.; Chafetz, Harry; Arkell, Alfred; and McMahon, Matthew A., 3,642,831.
Smetana, Richard Denis; Chafetz, Harry; and Arkell, Alfred, 3,642,832.
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- Chafetz, Harry; Canning, William H.; and Morissette, Bertrand G., to Texaco Inc. Process for preparing hydrocarbon lubricating oil containing calcium alkylphenolate. 3,691,076, 9-12-72, Cl. 252-42.700.

- Chaffee, Mack R.; and Paulson, Thomas M., to International Business Machines Corporation. Method of chip insertion. 3,634,162, 1-11-72, Cl. 156-154.
- Chaffin, Chester C., to Ezy-Way Manufacturing & Sales Co. Lifting apparatus. 3,672,634, 6-27-72, Cl. 254-2.00c.
- Chaffin, Chester C. Apparatus for handling carpet rolls. 3,702,139, 11-7-72, Cl. 214-38.00c.
- Chaffin, Frank R.: See—
Ballentine, John W.; and Chaffin, Frank R., 3,698,257.
- Chafin, James M.: See—
Wright, John G.; and Chafin, James M., 3,685,815.
- Chaff, Marc E. Intra-uterine contraceptive devices. 3,683,905, 8-15-72, Cl. 128-130.000.
- Chagin, Valentin Petrovich: See—
Koshkin, Lev Nikolaevich; Zazhigin, Alexei Sergeevich; Tanygin, Vitaly Matveevich; Chagin, Valentin Petrovich; and Khomenko, Vasily Iosipovich, 3,631,965.
- Chagnon, Verdun P. Scuba diving reel. 3,705,697, 12-12-72, Cl. 242-55.000.
- Chai, Hi D.; Mills, Stephen H.; Pawletko, Joseph P.; Peters, Francis E.; and Young, Carl T., to International Business Machines Corporation. Magnetically actuated and restored print hammer. 3,705,370, 12-5-72, Cl. 335-229.000.
- Chaiet, Louis: See—
Miller, William J.; Wolf, Frank J.; and Chaiet, Louis, 3,683,072.
Wolf, Frank J.; Miller, William J.; and Chaiet, Louis, 3,683,073.
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Ross, Sherwood, B.; and Kreizel, William J., 3,656,531.
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Brown, William M., 3,662,391.
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MacLachlan, Robert K.; and Chambers, Derek, 3,683,191.
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- Chamodon, Pierre, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme) Pont de la Folie. Arrangement for assembling storage cells in batteries. 3,692,588, 9-19-72, Cl. 136-171.000.
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Junk, Heinrich J., 3,666,040.
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Mayo, Frank H., 3,696,040.
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Beynon, Ian L., 3,683,955.
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Boassy, Emil J.; and Shanni, Vincent, 3,673,751.
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Hemming, Charles B.; and Bernholz, Edward L., 3,703,394.
Luebs, Donald F.; and Ashby, Frederick R., 3,703,198.
Vassiliades, Anthony E.; Shroff, Shrenik; and Nauman, Edward F., 3,707,514.
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Kock, Erhard, 3,674,205.
Podiak, Richard S.; Mack, James M.; and Bretsch, Michael A., 3,668,749.
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Wendt, John A.; and Rosauer, Peter J., 3,681,977.
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Wacht, Raymond J.; Stallbaumer, Richard J.; and Stilwell, Jack E., 3,631,991.
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Fowler, Neal V., Jr.; Gallagher, Arthur P.; and Chance, Calvin L., Jr., 3,702,644.
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Griesheimer, George T.; and Chance, Joe I., 3,686,373.
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Daigle, Donald J.; Chance, Leon H.; and Drake, George J., Jr., 3,694,256.
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Chancellor, Charles W., Jr., 3,641,963.
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Mesiah, Raymond N.; and Chancey, Harold R., 3,644,359.
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Shahani, Khem M.; Vakil, Jayantkumar R.; and Chandan, Ramesh Chandra, 3,689,640.
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Ancona, Anthony, 3,676,655.
Bock, Herbert G.; and Szerejko, Walter J., 3,673,762.
Cygnot, John E., 3,645,652.
Cygnot, John E.; and Sundberg, Jack G., 3,650,642.
Falk, Ronald E., 3,644,720.
Falk, Ronald E., 3,644,815.
Falk, Ronald E., 3,651,317.
Gebelein, Edward F., Jr., 3,651,460.
Grennan, Charles W.; and Von Moltke, Evert, 3,635,602.
Grennan, Charles W.; and Hearn, Richard J., 3,650,643.
Hunter, John M., 3,646,952.
Hunter, John M.; and Thompson, Raymond V., 3,661,059.
Lagana, Joseph A., 3,690,337.
Sundberg, Jack G., 3,642,387.
Thompson, Raymond V., 3,697,020.
White, Albert H., 3,672,163.
White, Albert H., 3,686,859.
White, Albert H., 3,686,860.
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Cornish, Rodney H.; Staulcup, James T.; and Chaney, Richard M., 3,672,426.
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- Chapman, Adrian R.: *See*—
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- Chapman, Charles Wallace, to Twiflex Couplings Limited. Rotatable couplings. 3,650,124, 3-21-72, Cl. 64-19.
- Chapman, Charles Walter; and Matthews, Eric, to Hallite Holdings Limited. Guillotine cutting machine. 3,649,416, 3-14-72, Cl. 156-523.
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- Chapman, Eric George Arthur, to Ilford Limited. Web-cutting apparatus. 3,668,962, 6-13-72, Cl. 83-323.000.
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- Chapman, James Ronald: *See—*
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- Chapman, John H., to Georgia Kaolin Company. Clay processing. 3,655,417, 4-11-72, Cl. 106-288.
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White, Arlon H.; and Chapman, John S., 3,683,655.
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Chapman, Earle F., Jr.; and Ruskin, Bernard J., 3,694,647.
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- Chapman, Philip J., to Liquid Carleonic Canadian Corporation, Limited. Welding electrode. 3,694,259, 9-26-72, Cl. 117-206.000.
- Chapman, Richard L. Manually operable cantilevered type exercising device. 3,690,655, 9-12-72, Cl. 272-81.
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- Chapman, Ronald H., to Motorola, Inc. Active filter for selecting and controlling signals. 3,696,252, 10-3-72, Cl. 307-233.000.
- Chapman, Ronald W., to Shell Oil Company. End-of-tubing locator. 3,696,865, 10-10-72, Cl. 166-64.
- Chapman, Thomas Henry, to Gunson's Sortex Limited. Apparatus for controlling a flow of a pressure fluid. 3,695,517, 10-3-72, Cl. 239-583.000.
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- Chapman, Walter Harry: *See—*
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- Chappell, Peter Lee: *See—*
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- Charbin, Andre, & Cie: *See—*
Perrier, Augustin, 3,660,992.
- Charbonnages de France: *See—*
Courbon, Paul, 3,703,800.
- Monomakhoff, Alexandre, 3,634,757.
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Torrey, Bradford M., 3,636,317.
- Charest, Andre. Newspaper dispensing machine. 3,685,691, 8-22-72, Cl. 221-225.000.
- Charest, Rolland C. H.: *See—*
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- Chargematic, Inc.: *See—*
Ballman, Gray C., 3,652,916.
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- Charles, Asa Franklin: *See—*
O'Leary, Walter E.; and Charles, Asa Franklin, 3,687,084.
- Charles, James A.: *See—*
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- Charles, Joseph T., to Coil Sales, Inc. Package for encapsulated electrical components. 3,691,294, 9-12-72, Cl. 178-46.000.
- Charles, Malcolm Jean: *See—*
Hall, Walter Dennis; and Charles, Malcolm Jean, 3,635,610.
- Charles River Foundation, The: *See—*
Merrill, Edward W., 3,677,444.
- Merrill, Edward W., 3,678,756.
- Merrill, Edward W., 3,679,625.
- Charles, Robert Lemoyne: *See—*

- Melachouris, Nicholas; and Charles, Robert Lemoyne, 3,634,195.
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- Charlesworth, Eric, to Jenkins, Robert, & Company Limited. Method of multiple spot welding. 3,686,463, 8-22-72, Cl. 219-127.000.
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- Charlton, Kyle W., to California Institute of Technology. Gas analysis system and method. 3,638,397, 2-1-72, Cl. 55-16.
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- Charney, Ralph E.: *See—*
Wasleski, Joseph W., Jr.; and Charney, Ralph E., 3,646,494.
- Charno, Ronald J.: *See—*
Burgess, Lester E.; Niemkiewicz, Ignatius J.; Cruger, Robert W.; and Charno, Ronald J., 3,666,310.
- Charnock, Harold: *See—*
Dickinson, George Alfred; and Charnock, Harold, 3,695,859.
- Charnock, Harry; and Bowker, David E., to Dunlop Holdings Limited. Method of producing a wear-resistant area in a surface-covering material. 3,703,424, 11-21-72, Cl. 156-272.000.
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Chari, Nallan C. S.; Charos, Andrew D.; and Walker, Harry D., Jr., 3,634,187.
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Duclaux, Daniel; Givry, Jean-Pierre; and Pointud, Jacky, 3,679,555.
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McCoy, John J., 3,638,823.
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McCoy, John J., 3,638,822.
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Leach, George J., 3,703,013.
- Charters, George: *See—*
Hartley, Roderick James; and Charters, George, 3,688,320.
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Chartier, Guy, 3,635,434.
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Le Peer, Clarence M.; and Mohle, John H., 3,635,558.
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Scherban, Alexandr Nazarievich; Furman, Neonil Izrailevich; Sotnichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Jury Ivanovich; Sutormin, Jury Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chaschinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna, 3,678,489.
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Peters, John E.; and Rollfinke, Fred J., 3,669,634.
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Lania, Anthony R.; and Kirkegard, Neil, Jr., 3,692,702.
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McCann, Gerald P.; and Chase, Frank F., 3,647,115.
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Brenner, Mannie; Chase, Fred L.; and Leydon, Arthur J., 3,676,386.
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Becker, Carl H.; Dell, Harold R.; McFarland, Keith E.; and Wong, Herman, 3,665,483.
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Iwancio, Bernard L.; and Chase, Robert A., 3,664,133.
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Ruf, Franz X.; Chase, Wayne R.; and Prell, Raymond A., 3,703,881.
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Belcher, Richard A.; and Kozacka, Frederick J., 3,697,916.
- Belcher, Richard A., 3,701,069.
- Jacobs, Philip C., Jr., 3,693,128.
- Kozacka, Frederick J., 3,648,210.
- Kozacka, Frederick J., 3,663,915.
- Kozacka, Frederick J.; and Belcher, Richard A., 3,671,909.
- Kozacka, Frederick J., 3,671,910.
- Kozacka, Frederick J., 3,671,911.

- Kozacka, Frederick J., 3,680,019.
Kozacka, Frederick J., 3,681,731.
Kozacka, Frederick J., 3,691,500.
Salzer, Erwin, 3,673,533.
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Hao, Shya; Chasen, Alvin M.; and Miller, Alan M., 3,707,149.
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Karecki, Marion R.; Chastain George R.; and Barnes, Thomas R., 3,685,690.
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McKee, James R.; and Chastain, James K., 3,640,039.
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Stone, Charles E., 3,698,393.
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Burkhardt, Max; Huber, Horst; and Chateau, Christian, 3,707,184.
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Francois, Martin; Bruyere, Marcel; and Chatelet, Henri, 3,682,506.
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Irvine, Chester A., 3,692,084.
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Hejzlar, Sid; Zweig, Robert M.; and Reynolds, George D., Jr., 3,656,568.
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Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,635,925.
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,621.
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,622.
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,623.
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,624.
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,644,317.
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,652,522.
Mazzolini, Corrado; Lo Monaco, Sergio; Patron, Luigi; Moretti, Alberto; and Di Ciolo, Marcello, 3,637,619.
Mazzolini, Corrado; Lo Monaco, Sergio; Patron, Luigi; Moretti, Alberto; and Di Ciolo, Marcello, 3,637,626.
Patron, Luigi; Moretti, Alberto; and Pasqualetto, Renato, 3,637,620.
Patron, Luigi; Moretti, Alberto; and Pasqualetto, Renato, 3,642,737.
Patron, Luigi; Moretti, Alberto; and Sinatora, Gian Paolo, 3,642,738.
Urgesi, Federico; and Rothert, Horst, 3,635,901.
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Krantz, John C., Jr.; and Burgison, Raymond M., 3,639,638.
- Chattam Chemicals; division of Chattem Drug & Chemical Company: See—
Schmank, Horst W.; and Gross, Benjamin H., 3,639,664.
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Cureton, Glen L., 3,666,182.
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Grunther, Robert G.; Chatten, Clarence K.; and Lebovits, Alexander, 3,644,247.
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Ruhl, Charles A. L.; Meyer, Edward; and Chatterjea, Probir K., 3,693,503.
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Stokey, Kenneth W.; and Chatterjee, Anil K., 3,702,039.
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- Chatterjee, Ranjit K., to Birdsboro Corporation. Vernier adjustment for a pinion stand and the like. 3,686,918, 8-29-72, Cl. 72-198.000.
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Palermitti, Frank M.; and Chatterji, Arun K., 3,655,374.
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- Chaudhary, Banwari Lal. Constructional elements. 3,648,426, 3-14-72, Cl. 52-633.
- Chaumeau, Andree: See—
Croissant, Pierre Michel Rene; Armbruster, Jean-Claude; and Chaumeau, Andree, 3,697,327.
- Chaumont, Gerard: See—
D'Acremont, Alain F.; Chaumont, Gerard; and Lefevre, Alain P., 3,636,869.
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Konrad, Charles E.; and Chausse, Burnette P., 3,641,566.
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Bowers, Regis D., 3,701,343.
- Chaussonnet, Pierre E.: See—
Van Impe, Jean; Chaussonnet, Pierre E.; and Rombaux, Jean-Pierre M., 3,679,378.
- Chauveton, Charles E.: See—
Bideau, Max A.; Chauveton, Charles E.; Fruchard, Alain; and Laurens, Marc, 3,692,524.
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Warthen, John L.; and Cheavens, Thomas H., 3,669,624.
- Chebuhar, Charles J.: See—
Windstrup, Robert F.; and Chebuhar, Charles J., 3,701,440.
- Chebuhar, Charles J.; and Buhle, Russell C., to Continental Can Company, Inc. Centrifugal adhesive applicator. 3,637,137, 1-25-72, Cl. 239-223.
- Checheljuk, Yakov Zinovievich: See—
Pshenichny, Gennady Ivanovich; Checheljuk, Yakov Zinovievich; and Afanasiev, Mikhail Andreevich, 3,685,435.
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- Checkland, Peter Bernard: See—
Barlow, George Edward; Checkland, Peter Bernard; and Edington, Robert Alexander, 3,651,193.
- Chedaille, Jacques; and Koopmans, Gerben, to Midland-Ross Corporation. Multi-fuel burner. 3,671,172, 6-20-72, Cl. 431-174.
- Cheek, Chandler S.: See—
Stansell, Marion J.; and Cheek, Chandler S., 3,658,679.
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Little, Edwin D.; and Cheema, Zafarullah K., 3,646,235.
Newallis, Peter E.; and Cheema, Zafarullah K., 3,636,204.
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Brown, John Colin; and Cheer, Roy Anthony, 3,677,761.
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Cheeseboro, Robert G., 3,658,347.
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- Cheeseman, Carl Anthony. Room temperature vulcanizable silicone rubber stocks. 3,686,357, 8-22-72, Cl. 260-825.000.
- Cheesman, Donald C.: See—
Law, John E.; and Cheesman, Donald C., 3,692,246.
- Cheever, Daniel R.: See—
De Sa E Silva, Claudio; and Cheever, Daniel R., 3,699,413.
- Chef Pierre, Inc.: See—
Dendinos, Peter C., 3,692,544.
- Cheffers, Stanley John; and Glynn, Michael Harvey, to Siebe Gorman & Company Limited. Breathing apparatus. 3,669,109, 6-13-72, Cl. 128-147.
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- Cheh, Ernest L.; Bowden, Wade R., Jr.; and Anderson, James D., to Burndy Corporation. Crimping machine. 3,661,029, 5-9-72, Cl. 72-419.
- Chekotilo, Leonty Vasilievich: See—
Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexander; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexander Mikhailovich; Shevisov, Anatoly Ivanovich; Grinspon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toschev, Alexander Mikhaivich, 3,687,188.
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Lang, William J.; and Chelini, Joseph M., 3,644,113.
- Chell, Frederick Nunnerley: See—
Robinson, Frank; and Chell, Frederick Nunnerley, 3,685,316.
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- Chem-Farm Inc.: See—
Betulius, Gilbert E.; and Pfeiffer, Norman W., 3,643,745.
- Chemagro Corporation: See—
Aichenegg, Paul C., 3,666,842.
Aichenegg, Paul C., 3,702,890.
Botts, Marion F.; and Regel, Erik K., 3,641,222.
Gier, Delta W.; and Wasleski, Daniel M., 3,632,331.
Gier, Delta W.; and Wasleski, Daniel M., 3,655,893.
Gier, Delta W.; and Calhoon, Audra M., 3,699,232.
Gier, Delta W.; and Wasleski, Daniel M., 3,706,786.
McKean, Jack H., 3,672,533.
Newallis, Peter E.; Poje, Albert J.; and Wasleski, Daniel M., 3,657,318.
- Chemair Corporation of America: See—
Lee, Aaron, 3,658,254.
Lee, Aaron, 3,705,689.
- Chemalytics Corporation: See—
Paul, Donald G., 3,693,403.
- Chemcell Limited: See—
Chopra, Sohinder Nath; and Turmel, Hilaire Marcel, 3,695,990.
Rassart, Nestor Sylvain, 3,645,085.
Riordon, Peter R., 3,677,881.
Sanchez, Francois; and Jutras, Matial, 3,686,736.
Smith, Russell G.; and Vanterpool, Alan, 3,634,522.
- Chemcraft Incorporated: See—
Hayden, William G., 3,702,355.
- Chemcut Corporation: See—
Benton, Robert C.; and Heffner, Blair W., 3,657,049.
Benton, Robert C.; and Heffner, Blair W., 3,663,724.
Coffman, Frederick E., 3,699,919.
- Chemech Engineering Ltd.: See—
Westerlund, Gothe O., 3,640,804.
Westerlund, Gothe O., 3,679,568.
- Chemed Corporation: See—
Brennan, William R., 3,703,470.
Coffey, Charles R.; and Tesdahl, Thomas C., 3,700,013.
Cowen, Samuel H., 3,669,822.
Crotty, Homer E.; and Zalzal, Michel T., 3,644,210.
Crotty, Homer E.; Coffey, Charles R.; and Tesdahl, Thomas C., 3,655,579.
Crotty, Homer E.; Coffey, Charles R.; and Tesdahl, Thomas C., 3,666,679.
Crotty, Homer E., 3,668,153.
Holdt, Donald H., 3,680,531.
Hwa, Chih M.; Bodach, Charles M.; and Schroeder, C. D., 3,666,404.
Patil, Arvind S.; Veltman, Preston L.; Loder, Edwin R.; Sabatelli, Philip M.; and Sarge, Carmen R., 3,682,190.
Ritzi, Jack, 3,654,940.
Ritzi, Jack Henry, 3,663,327.
Sabatelli, Philip M.; Sarge, Carmen R.; Loder, Edwin R.; and Brungs, Charles A., 3,644,650.
Sabatelli, Philip M.; Loder, Edwin R.; Brungs, Charles A.; and Sarge, Carmen R., 3,671,440.
Sabatelli, Philip M.; and Brungs, Charles A., 3,673,098.
Salutsky, Murrell L.; and Shair, Salem, 3,690,860.
- Chemed Corporation, mesne: See—
Stamm, James K.; Loder, Edwin R.; Brungs, Charles A.; and Kerst, Herman, 3,692,704.
- Chemerda, John M.: See—
Demain, Arnold L.; Chemerda, John M.; and White, Raymond F., 3,635,795.
Reinhold, Donald F.; Sletzing, Meyer; and Chemerda, John M., 3,658,876.
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Beach, Sidney C., 3,669,853.
Beeler, Allan E.; and Skowronski, Steve J., 3,653,401.
Carberry, John L.; Carson, David C., Sr.; and Harrington, Edward F., 3,655,224.
Hammon, George L., 3,642,294.
Hammon, George L., 3,665,956.
Hardt, Robert C.; and Kozlow, Edward, 3,660,986.

- Lineberry, Dewey D.; and Dudrow, Frank A., 3,693,322.
Madsen, Ditlev P.; and Pikel, John H., 3,655,702.
Masella, Anthony J.; and Grobel, Edward A., 3,638,932.
Rathjen, Theodore Nicholas; and Hanson, Harold Biddick, 3,646,881.
Van Horn, Charles A., 3,666,391.
Vander Ploeg, John Herman; and Weener, Earl, 3,673,192.
Wilson, Thomas L., 3,638,136.
Chemetron Corporation, *mesne*: See—
Couch, Richard W., Jr.; and Dean, Robert C., Jr., 3,641,308.
Gross, Maurice J., 3,661,310.
Lake, Glen W.; and Coerper, Myron D., 3,633,140.
Lake, Glen W.; and Coerper, Myron D., 3,662,461.
Chemex Corporation: See—
Keeler, Richard A.; and Eckstein, Arthur, 3,679,869.
Chemfilt Corporation of America, *mesne*: See—
Martin, Joseph F., 3,654,934.
Chemical Construction Corporation: See—
Boresta, John G., 3,690,044.
Braemer, Frank C., 3,638,925.
Brown, Bernard C.; and Braemer, Frank C., 3,655,361.
Connor, John M.; and Gureghian, Krikor D., 3,653,828.
Falck-Muus, Rolf; Newman, Daniel J.; and Atkin, Sydney, 3,649,173.
Karafian, Maxim, 3,668,250.
Mehta, Dinshaw D.; and Miller, Edward J., 3,663,179.
Negra, John S.; and Warshaw, Abe, 3,701,822.
Newman, Daniel J.; and Klein, Louis A., 3,679,549.
Newman, Daniel J.; and Falck-Muus, Rolf, 3,690,820.
Richardson, Harry L.; and Craig, Robert C., 3,668,836.
Shah, Indravadan S., 3,653,823.
Shah, Indravadan S., 3,655,338.
Shah, Indravadan S., 3,681,020.
Shah, Indravadan S., 3,696,929.
Tourtellotte, John F., 3,656,915.
Tourtellotte, John F.; Negra, John S.; Warshaw, Abe; and Villiers-Fisher, John F., 3,699,683.
Villiers-Fisher, John F.; and Warshaw, Abe, 3,632,306.
Villiers-Fisher, John F.; and Kaupas, Philip F., 3,636,106.
Villiers-Fisher, John F., 3,650,692.
Chemical Generators Inc.: See—
Callera, Joseph, 3,684,437.
Callera, Joseph, 3,695,839.
Chemical Projects Limited: See—
Pogorski, Louis A., 3,695,483.
Pogorski, Louis A., 3,698,588.
Chemical Refiners, Inc.: See—
Cooper, James R., 3,640,703.
Chemical Separations Corporation: See—
Higgins, Irwin R.; and Ferner, Jack D., 3,677,937.
Chemical Specialties Manufacturing Corporation: See—
Hughes, Robert R.; and Marjon, Pierre L., 3,686,707.
Chemische Werke Munchen Otto Barlocher GmbH: See—
Rosenthal, Christian, 3,652,752.
Chemicolloid Laboratories, Inc.: See—
O'Keefe, David F., 3,658,266.
Chemie Grunenthal G.m.b.H.: See—
Edwards, John A.; Fried, John H.; and Mills, John S., 3,705,182.
Flick, Kurt; and Frankus, Ernst, 3,652,589.
Chemie und Filter GmbH, Verfahrenstechnik KG: See—
Ernst, Franz, 3,642,171.
Chemie und Metall Gesellschaft m.b.H.: See—
Pink, Peter; and Dallner, Rupert, 3,662,896.
Chemiebau Dr. A. Zieren GmbH & Co. KG: See—
Barth, Hans-Dieter, 3,681,399.
Brendt, Dieter; Helms, Gerd; and Keunecke, Gerhard, 3,699,008.
Gehrken, Hubert; Helms, Gerd; Keunecke, Gerhard; and Krimphove, Herbert, 3,650,906.
Gelderblom, Horst-Dieter; and Morsdorf, Manfred, 3,670,769.
Jung, Gerhard; and Klotgen, Gerhard, 3,651,095.
Keunecke, Gerhard; and Kramer, Johannes, 3,691,022.
Stauffer, Adolf, 3,684,440.
Chemiefaser Lenzing Aktiengesellschaft: See—
Eichler, Josef Alfred; and Plammer, Alfred, 3,645,299.
Sabhofer, Franz; and Krassig, Johannes, 3,676,243.
Sogner, Dominik, 3,701,281.
Chemische Fabrik Kalk GmbH: See—
Jenkner, Herbert; and Buttgens, Walter, 3,636,163.
Witten-Annen, Hans Lewer; Dust, Hanspeter; and Thonnes, Martin, 3,681,246.
Chemische Werke Albert: See—
Fischer, Hannes; and Kuhlkamp, Alfred, 3,657,092.
Giller, Arnold, 3,647,755.
Lorentz, Guido; and Stahl, Dieter, 3,689,591.
Zimmermann, Rolf; Busch, Wolfram; and Schmitz, Josef, 3,652,470.
Chemische Werke Huls A.G.: See—
Strache, Hanns; and Dammernann, Rolf, 3,655,794.
Chemische Werke Huls Aktiengesellschaft: See—
Amrehn, Hermann, 3,636,331.
Beckmann, Gunter; and Finkmann, Hans-Ulrich, 3,686,388.
Birkner, Helmut; Ziegenbein, Willi; and Schick, Anton, 3,635,850.
Blumel, Harald, 3,654,243.
Bott, Kaspar, 3,637,821.
Feinauer, Roland; Thier, Werner; and Schneider, Wolfgang, 3,679,468.
Feja, Josef Heinz; and Landskroner, Karl-Heinz, 3,642,451.
Frese, Albert, 3,705,884.
Goldbach, Gunther; and Meyer, Heinz-Hermann, 3,684,760.
Grasemann, Horst, 3,702,319.
Knepper, Wilhelm; and Austin, Severin, 3,695,838.
Kreibich, Kurt, 3,639,511.
Magosch, Karl-Heinz; Rombusch, Konrad; and Eichers, Ursula, 3,701,765.
Michels, Aldred; and Bittscheidt, Josef, 3,640,919.
Nehring, Rudolf; Hockele, Gunter; and Ludwig, Gerhard, 3,702,348.
Nordsiel, Karl-Heinz, 3,696,087.
Riemhofer, Franz; Dittmann, Walter; Hornung, Karl-Heinz; and Schutze, Ernst-Christian, 3,668,275.
Riemhofer, Franz; Dittmann, Walter; Biethan, Uwe; Hornung, Karl-Heinz; and Schutze, Ernst-Christian, 3,668,276.
Riemhofer, Franz; Dittmann, Walter; Biethan, Uwe; and Schutze, Ernst-Christian, 3,668,277.
Riemhofer, Franz; Dittmann, Walter; Biethan, Uwe; Hornung, Karl-Heinz; and Schutze, Ernst-Christian, 3,678,128.
Rombusch, Konrad; Seifert, Friedrich; and Eichers, Ursula, 3,634,380.
Schafer, Johannes; Berg, Gerhard; and Benedikter, Kurt, 3,704,286.
Seifert, Friedrich; and Bittscheidt, Josef, 3,654,197.
Seifert, Friedrich; Bittscheidt, Josef; and Plenikowski, Johannes, 3,668,192.
Seifert, Friedrich; and Bittscheidt, Josef, 3,671,663.
Strauss, Gunther; Schneider, Klaus; and Jacquemin, Werner, 3,651,153.
Zur Hausen, Manfred; Hockele, Gunter; and Knepper, Wilhelm, 3,652,674.
Chemische Werke Huls Aktiengesellschaft Patentabteilung: See—
Frese, Albert, 3,678,023.
Chemische Werke Witten GmbH: See—
Naskar, Sasanka Sekhar; Hulsmann, Hans-Leo; and Renckhoff, Gustav, 3,705,186.
Chemnor Aktiengesellschaft: See—
Beer, Henri Bernard, 3,632,498.
Chemotronics, Incorporated: See—
Geen, Henry C.; and Rice, Edwin E., 3,645,521.
Rice, Edwin E., 3,666,252.
Chemotronics International, Inc.: See—
Rice, Edwin Eugene; and Franklin, Charles Henry, 3,676,963.
Rice, Edwin Eugene; and Franklin, Charles Henry, 3,702,519.
Chemplast, Inc.: See—
Carpenter, Robert E., 3,632,119.
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Levy, Edward M., 3,680,786.
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Rosenfield, Harry C.; and Chen, Chang C., 3,689,695.
Chen, Chi-Sin, to Continental Oil Company. Fermentation apparatus. 3,660,244, 5-2-72, Cl. 195-143.
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Chen, David H. T.: See—
Bohrer, Thomas C.; and Chen, David H. T., 3,657,411.
Chen, Fang-Shang; and Kinsel, Tracy Stewart, to Bell Telephone Laboratories, Incorporated. Optical pulse interval modulation system. 3,638,024, 1-25-72, Cl. 250-199.
Chen, Godfrey: See—
Abbott, Dominic C.; and Chen, Godfrey, 3,678,942.
Chen, Hai Y., to Mobil Oil Corporation. Reactivation of deactivated zeolite catalysts. 3,684,738, 8-15-72, Cl. 252-412.000.
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Mason, Lawrence J.; Simpson, George R.; Paradysz, Louis F.; and Chen, Philip L., 3,670,633.
Chen, Philip L., to Xerox Corporation. Optical recorder. 3,677,148, 7-18-72, Cl. 95-4.50r.
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Drobnick, James Louis; and Chen, Tom Tse-Pu, 3,694,147.
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Chen, Wei-Gwo, to Griffolyn Company, Incorporated. Fiber reinforced laminated plastic film and method of making same. 3,644,165, 2-22-72, Cl. 161-58.
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Chene, Marcel; Quiles, Jean Pierre; and Lafaye, Jean Francis. Wet-strengthened carboxylated cellulosic materials containing melamine formaldehyde resin and a process for preparing the same. 3,657,066, 4-18-72, Cl. 162-166.
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Chenevert, Martin E., to Esso Production Research Company. Oil recovery process. 3,670,816, 6-20-72, Cl. 166-252.000.
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Chenevert, Martin E., to Esso Production Research Company. Method for determining aqueous activity of subsurface formations. 3,702,564, 11-14-72, Cl. 73-73.000.
Chenevey, Edward C.: See—
Loft, John T.; Conciatori, Anthony B.; and Chenevey, Edward C., 3,671,491.
Cheney Extrusions (Australia) Limited: See—
McDonald, Dean Barry; and McBride, Albert James, 3,685,405.
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Cheney, Harold L., to Chevron Research Company. Orchard heater. 3,698,379, 10-17-72, Cl. 126-59.500.
Cheney, Lee C.; Godfrey, John C.; Crast, Leonard B., Jr.; and Luttinger, Joyce R., to Bristol-Myers Company. Esters of 6-aminopenicillanic acid. 3,652,546, 3-28-72, Cl. 260-239.1.
Cheney, Paul E., to Silver Industries, Inc. Two compartment syringe. 3,685,514, 8-22-72, Cl. 128-218.00m.
Cheney, Raymond E., to International Business Machines Corporation. Method and apparatus for fracturing metal. 3,700,150, 10-24-72, Cl. 225-1.000.
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Cheney, Richard F.; and Parsons, Donald S., to Sylvania Electric Products, Inc. Molybdenum base alloys. 3,676,083, 7-11-72, Cl. 29-182.000.
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Cheng, Ming T.: See—
Baldwin, Roger A.; and Cheng, Ming T., 3,674,742.
Cheng, Paul J.: See—
Vanderveen, John W.; Cheng, Paul J.; Mills, K. Louis, Jr.; Venable, Charles R., Jr.; and Johnson, Paul H., 3,676,070.
Cheng, Sing-Wang: See—
Cheng, Chen Yen; and Cheng, Sing-Wang, 3,678,696.
Cheng, Chen-Yen; and Cheng, Sing-Wang, 3,667,243.
Cheng, Chen-Yen; and Cheng, Sing-Wang, 3,690,116.
Cheng, Tai Chun; and Halasa, Adel F., to Firestone Tire & Rubber Company, The. Process for polymerizing conjugated dienes. 3,635,922, 1-18-72, Cl. 260-83.7.
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Chenot, Charles F.: See—
Taubner, Fred R.; and Chenot, Charles F., 3,649,329.
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Chepelev, Viktor Gavrilovich: See—
Grinchenko, Nikolai Nikolaevich; Abakanovich, Vadim Vyacheslavovich; Goldshtein, Jury Moiseevich; Gurevich, Grigory Zakharovich; Chepelev, Viktor Gavrilovich; and Kuvshinov, Vladimir Zakharovich, 3,693,077.
Chepigo, Sergei Vladimirovich; Belenky, Solomon Iosifovich; Somov, Vsevolod Sergeevich; Voronkov, Vasily Gerasimovich; Belavsky, Mikhail Alexandrovich; Korotav, Oleg Gerasimovich; Rodionova, Galina Sergeevna; Maximenko, Nikolai Spiridonovich; Glazman, Bori Aronovich; Belova, Larisa Alexandrovna; and Vorobiova, Galina Ivanovna. Method of producing yeast. 3,654,084, 4-4-72, Cl. 195-95.
Chepos, Zavody chemickoho a potravinarskeho strojirenstvi oborovy podnik: See—
Staud, Miloslav; and Lazarev, Anatolij, 3,692,862.
Chepovesky, Mikhail Lvovich: See—

- Beletsky, Naum Isosifovich; and Chepovesky, Mikhail Lvovich, 3,646,788.
- Chepovetsky, Mikhail Lvovich: *See*—
Beletsky, Naum Isosifovich; and Chepovetsky, Mikhail Lvovich, 3,686,912.
- Cheprasov, Ivan Matveevich: *See*—
Ivanovichtrov, Vasily; Svetlichny, Boris Nikolaevich; Demidov, Yuri Alexeevich; Elin, Nikolai Mikhailovich; Cherepanov, Vladimir Petrovich; Samuilov, Ivan Nikolaevich; and Cheprasov, Ivan Matveevich, 3,684,264.
- Chepurnoi, Nikolai Prokhorovich: *See*—
Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tkach, Khai Berkovich; and Chepurnoi, Nikolai Prokhorovich, 3,677,354.
- Cherba, Samuel: *See*—
Mahon, Thomas J.; and Cherba, Samuel, 3,670,726.
- Cherdron, Egon: *See*—
Ruter, Hermann; Cherdron, Egon; Haerter, Manfred; and Bayer, Gerhard, 3,663,202.
- Cherdron, Harald: *See*—
Burg, Karlheinz; Cherdron, Harald; Lehmann, Heinz; and Lutz, Eleonore, 3,639,192.
- Burg, Karlheinz; and Cherdron, Harald, 3,642,940.
- Burg, Karlheinz; Wolters, Ernst; Cherdron, Harald; and Leugering, Hans-Joachim, 3,704,275.
- Hafner, Karl-Heinz; and Cherdron, Harald, 3,644,290.
- Hafner, Karl-Heinz; and Cherdron, Harald, 3,666,714.
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Kononov, Boris Leonidovich; Kildishev, Vasily Semenovich; Kaplunov, Vadim Borisovich; Tokarev, Vladimir Ivanovich; Spivak, Boris Volkovich; Byaly, Boris Ilich; Chigirinsky, Alexander Abramovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kariashvsky, Pavel Yakovlevich; and Cheremisov, Ivan Yakovlevich, 3,683,220.
- Cheremukhin, Georgiy Alexeevich: *See*—
Tupolev, Andrei Nikolaevich; Tupolev, Alexei Andreevich; Cheremukhin, Georgiy Alexeevich; Bliznjuk, Valentin Ivanovich; Pukhov, Alexander Leonidovich; Svishev, Georgiy Petrovich; Bjushgens, Georgiy Sergeevich; and Mikeladze, Vitaly Georgievich, 3,677,502.
- Cherepanov, Vladimir Petrovich: *See*—
Ivanovichtrov, Vasily; Svetlichny, Boris Nikolaevich; Demidov, Yuri Alexeevich; Elin, Nikolai Mikhailovich; Cherepanov, Vladimir Petrovich; Samuilov, Ivan Nikolaevich; and Cheprasov, Ivan Matveevich, 3,684,264.
- Cherevaty, Viktor Stepanovich: *See*—
Skulsky, Yuri Valentinovich; Boretzky, Vasily Grigorievich; Sakharov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievich; Schukin, Pavel Ivanovich; Danilkiv, Ivan Petrovich; Zelensky, Vladimir Filippovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgamonovich; and Sokirko, Vasily Andreevich, 3,657,962.
- Cherian, Abraham: *See*—
Markowitz, Ivan N.; and Cherian, Abraham, 3,636,313.
- Cherkasov, Yuri Nikolaevich: *See*—
Leep, Vladimir Romanovich; Sibgatulin, Kharis Malikovich; and Cherkasov, Yuri Nikolaevich, 3,688,181.
- Chermensky, Dmitry Pavlovich: *See*—
Chaikin, Boris Semenovich; Kozlov, Lev Ivanovich; Oblasti, Khimki Moskovskoi; Malchenko, Thomas Vasilievich; Mokrushin, Konstantin Dmitrievich; Yarovsky, Lev Volfovich; Maryanchik, Grigory Efimovich; Zhelnov, Boris Stepanovich; Tarasov, Vasily Mikhailovich Trubetskoy, Kirill Mikhailovich; Borschevsky, Igor Konstantinovich; and Chermensky, Dmitry Pavlovich, 3,697,058.
- Chern, Diomed M.: *See*—
Moyle, Clarence L.; and Chern, Diomed M., 3,651,123.
- Chernack, Milton P., to Delcron Products, Inc. Smoking device. 3,685,520, 8-22-72, Cl. 131-182.000.
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- Cherniavsky, Jaroslav: *See*—
Thomsen, Jack W.; Nupnau, Arthur E.; Kim, Raymond W. H.; Cherniavsky, Jaroslav; and Iha, Kiyoshi, 3,635,548.
- Thomsen, Jack W.; Nupnau, Arthur E.; Kim, Raymond W. H.; and Cherniavsky, Jaroslav, 3,701,595.
- Cherniavsky, Jaroslav; Prelletz, Edward R.; and Rucinski, Roland R., to Bell & Howell Company. Apparatus for stripping and feeding web material from a supply roll or cartridge. 3,666,205, 5-30-72, Cl. 242-192.
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Bobylev, Alexei Vasilievich; Goryacheva, Kapitolina Arsenievna; and Chernikova, Alla Vasilievna, 3,650,733.
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Martin, William S.; and Chernoch, Joseph P., 3,633,126.
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Chernotsky, Alan; and Satz, Richard (said Satz assor. to said), 3,674,345.
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Ainslie, Norman G.; Cheroff, George; Graff, William S.; Howard, James Kent; and Ross, Rupert F., 3,695,855.
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Hufford, Wayne T., 3,659,204.
- Cheron, Henri: *See*—
Paul, Claude; and Cheron, Henri, 3,695,856.
- Cherry Electrical Products Corporation: *See*—
Anderson, Fred N., 3,678,235.
- Bedocs, Michael F., 3,674,970.
- Cherry, Walter L.; and Castle, Raymond G., 3,644,855.
- Cherry, Walter L.; and Bedocs, Michael F., 3,654,416.
- Long, Eric L., 3,674,966.
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McNelis, Edward J.; and Cherry, Wesley R., 3,650,907.
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Encke, Robert B., 3,685,554.
- Cherry-Burrell Corporation, mesnc: *See*—
Mistarz, Robert J., 3,669,160.
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Gumenjuk, Boris Andreevich; Peregud, Boris Petrovich; Cherstov, Leonid; Granberg, Georgiy Ljubimovich; and Ivanova, Galina Davydovna, 3,659,095.
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Tyler, Victor M., II; Beaudette, Charles G.; and Chertok, Allan B., 3,662,339.
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Wollner, Johannes; Cherubim, Martin Karl; and Henn, Friedrich Gerhard, 3,647,918.
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Alpert, Seymour B.; Wolk, Ronald H.; and Chervenak, Michael C., 3,681,231.
- Alpert, Seymour B.; and Chervenak, Michael C., 3,705,849.
- Weber, Carl L.; Wolk, Ronald H.; and Chervenak, Michael C., 3,677,716.
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Spentle, Rene, 3,633,910.
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- Chesapeake and Ohio Railway Company, The: *See*—
Machin, Charles M., Jr.; and Fawcett, John E., 3,651,388.
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Strelets, Khaim Lipovich; Chesnokov, Alexandr Sergeevich; Devyatkin, Vladimir Nikolaevich; Tatakini, Alexandr Nikolaevich; Krasikov, Evsei Dmitrievich; Leonova, Ljudmila Sergeevna; Medvetskaya, Galina Arkadievna; and Nechaeva, Tatyana Georgievna, 3,676,323.
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Browning, William C.; and Chesser, Billy G., 3,697,498.
- Browning, William C.; and Chesser, Billy G., 3,699,042.
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Madden, Theodore R.; Hopkins, George H., Jr.; and Chessman, Michael, 3,646,459.
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Eames, Ronald W., 3,651,681.
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Miles, Frederick G., 3,643,506.
- Chevalaz, Roger A.: *See*—
Siegel, Maxwell E.; Rapoza, Edward J.; and Chevalaz, Roger A., 3,634,651.
- Chevalier, Andre; Grolet, Pierre; and Reynard, Remi, to Institut Francais du Petrole, des Carburants et Lubrifiants. Process for coupling to a connecting element an elongated flexible member including lines for remote transmission of power or data. 3,641,68, 2-15-72, Cl. 29-423.
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- Chevalier, Gabriel: *See*—
Rouxel, Roland; and Chevalier, Gabriel, 3,644,719.
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Ducroco, Roger Eugene; and Chevalier, Michel Henri, 3,660,853.
- Chevet, Robert; and Goulard, Jacques, to Compagnie Generale d'Electricite. Manufacture of gas electrodes for fuel cells. 3,695,936, 10-3-72, Cl. 136-122.000.
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- Chevron Research Company: *See*—
Adams, John Howard, 3,678,000.
- Adams, John Howard, 3,678,001.
- Adams, John Howard, 3,678,044.
- Anderson, Robert G., 3,634,269.
- Anderson, Robert G., 3,651,119.
- Annesser, Richard J.; and Balogh, Stephen A., 3,699,037.
- Bacskai, Robert, 3,642,570.
- Bacskai, Robert, 3,642,636.
- Bacskai, Robert, 3,642,741.
- Bacskai, Robert, 3,699,043.
- Bakker, Nicolaas, 3,640,855.
- Beyaert, Bruce O., 3,657,109.
- Bradshaw, Jerald S., 3,639,356.
- Brandel, Albert John, 3,653,835.
- Bridge, Alan G., 3,663,434.
- Bridge, Alan G., 3,696,027.
- Brodbeck, John J., 3,647,898.
- Brown, Melancthon Starr, 3,707,557.
- Brown, Melancthon S., 3,652,630.
- Brown, Melancthon S., 3,660,429.
- Brown, Melancthon S.; and Kohn, Gustave K., 3,663,594.
- Brown, Melancthon S., 3,679,673.
- Brown, Melancthon S., 3,697,571.
- Brown, Melancthon S., 3,697,572.
- Brown, Melancthon Starr, 3,679,733.
- Burnett, Robert L., 3,653,831.
- Burrows, Merwyn L.; and Furby, Neal W., 3,649,721.
- Campbell, Albert E., 3,685,807.
- Carey, Ralph A., 3,637,483.
- Carey, Ralph A.; and Jacobson, Robert L., 3,660,275.
- Carruth, Henry Thomas, Jr., 3,687,229.
- Cheney, Harold L., 3,698,379.
- Chessmore, Donald O.; and Jaffe, Joseph, 3,696,025.
- Christensen, Robert I., 3,694,343.
- Csicery, Sigmund M.; and Kittrell, James R., 3,632,500.
- Csicery, Sigmund M.; Hickson, Donald A.; and Jaffe, Joseph, 3,640,904.
- Csicery, Sigmund M.; and Mulaskey, Bernard F., 3,655,798.
- Danzik, Mitchell; and House, Ralph, 3,697,573.
- Egan, Clark J., 3,647,678.
- Egan, Clark J., 3,647,681.
- Egan, Clark J., 3,681,232.
- Fantin, Louis M., 3,658,195.
- Ferm, Richard L., 3,650,113.
- Ferm, Richard L., 3,703,464.
- Fraser, G. Frank, 3,674,413.
- Gannon, John J.; and Mehmedbasich, Enver, 3,657,121.
- Goebel, Charles V., Jr.; and Ferstandig, Louis L., 3,632,664.
- Graf, Peter E., 3,695,152.
- Hansen, Erling, 3,660,288.
- Haunschild, Willard M., 3,634,534.
- Haunschild, Willard M., 3,634,535.
- Haunschild, Willard M.; Jacobson, Robert L.; and McCoy, Charles S., 3,691,062.
- Hess, Patrick H., 3,662,831.
- Hotten, Bruce W., 3,649,537.
- Hotten, Bruce W., 3,649,538.
- Houston, Robert J.; and Csicery, Sigmund M., 3,639,273.
- Hughes, Thomas R.; and Sieg, Robert P., 3,699,035.
- Hutchison, Stanley O.; and Mc Kinnell, John C., 3,637,021.
- Hutchison, Stanley O., 3,662,828.
- Hutchison, Stanley O., 3,700,034.
- Jacobson, Robert L.; and Spurlock, Burwell, 3,639,227.
- Jaffe, Joseph, 3,637,527.
- Jaffe, Joseph; and Kittrell, James R., 3,639,268.
- Jaffe, Joseph; and Kittrell, James R., 3,641,096.
- Jaffe, Joseph, 3,652,457.
- Jaffe, Joseph, 3,663,424.
- Jaffe, Joseph, 3,664,971.
- Jaffe, Joseph, 3,664,972.
- Jaffe, Joseph, 3,664,973.

- Jaffe, Joseph; and Kittrell, James R., 3,669,873.
 Jaffe, Joseph; and Kittrell, James R., 3,671,425.
 Jaffe, Joseph, 3,682,836.
 Kemp, Jacob D., 3,657,377.
 Kemp, Jacob D., 3,678,099.
 Kittrell, James R., 3,632,501.
 Kittrell, James R., 3,632,502.
 Kittrell, James R., 3,639,271.
 Klusdsahl, Harris E., 3,660,310.
 Kohn, Gustave K., 3,655,778.
 Kohn, Gustave K.; and Stevick, Lawrence E., 3,655,780.
 Kohn, Gustave K., 3,679,734.
 Kohn, Gustave K.; and McMurtry, Randolph J., 3,686,398.
 Kohn, Gustave K., 3,694,184.
 Kohn, Gustave K., 3,699,122.
 Kohn, Gustave K., 3,699,163.
 Kohn, Gustave K., 3,702,366.
 Kray, Louis R., 3,700,725.
 Langlois, Gordon E.; Olson, Lloyd J.; and Rudy, Charles E., Jr., 3,684,700.
 Lindquist, Robert H., 3,655,360.
 Liston, Thomas V., 3,654,328.
 Liston, Thomas V., 3,692,681.
 Lowe, Warren, 3,634,241.
 Lowe, Warren, 3,666,662.
 Lowe, Warren, 3,697,426.
 Magee, Philip S., 3,639,547.
 Magee, Philip S., 3,649,723.
 Marquis, David M.; and Sweeney, William A., 3,641,131.
 Mason, Harold F., 3,660,270.
 McCoy, Charles S.; and Haunschild, Willard M., 3,650,944.
 Mehmedbasich, Enver, 3,702,757.
 Mitchell, David S.; Bridge, Alan G.; and Scott, John W., 3,674,682.
 Moore, Joseph E., 3,632,622.
 Moore, Joseph E., 3,637,792.
 Moran, Charles E., 3,660,126.
 Mulaskey, Bernard F., 3,668,268.
 Mulaskey, Bernard F.; and Chilton, Elmore F., 3,673,079.
 Mulaskey, Bernard F., 3,682,811.
 Noble, Edward D., 3,657,151.
 Olund, Sven A., 3,640,856.
 Olund, Sven A., 3,642,634.
 Parker, Phillip H., 3,649,431.
 Reese, Donald H., 3,659,695.
 Richardson, Wallace L.; Kautsky, George J.; and Barusch, Maurice R., 3,674,826.
 Roselius, Ronald R., 3,684,688.
 Runge, Richard J., 3,697,864.
 Salka, Arnold I., 3,637,485.
 Sharman, Samuel H., 3,632,515.
 Sharman, Samuel H., 3,639,282.
 Sharman, Samuel H., 3,676,372.
 Sharman, Samuel H., 3,705,113.
 Sherman, Samuel; and Danzik, Mitchell, 3,646,100.
 Sieg, Robert P., 3,676,522.
 Singer, Malcolm S., 3,636,062.
 Singer, Malcolm S., 3,700,699.
 Singer, Malcolm Scott, 3,655,689.
 Singer, Malcolm Scott, 3,705,188.
 Smith, Calvin S.; and McLeod, William J., 3,656,905.
 Smith, Calvin S.; and McLeod, William J., 3,699,218.
 Stanton, Garth M., 3,661,779.
 Stanton, Garth M.; and Drehe, John L., 3,692,677.
 Stayner, Robert A., 3,639,275.
 Stayner, Robert A.; and DeMay, George B., 3,648,013.
 Stayner, Robert A., 3,679,857.
 Stephenson, Lee P., 3,638,178.
 Stevick, Lawrence E., 3,646,097.
 Stevick, Lawrence E., 3,671,547.
 Straus, Alan E., 3,647,899.
 Straus, Alan E., 3,655,572.
 Suzuki, Shigeto, 3,639,469.
 Suzuki, Shigeto, 3,639,470.
 Suzuki, Shigeto; Kilgren, Karl H.; and Tjoo, Giok H., 3,642,431.
 Suzuki, Shigeto, 3,644,515.
 Suzuki, Shigeto, 3,647,870.
 Suzuki, Shigeto; Tjoo, Giok H.; and Kilgren, Karl H., 3,656,887.
 Sweeney, William A.; and Woo, Gar Lok, 3,652,662.
 Sweeney, William A., 3,699,157.
 Sweeney, William A.; and Woo, Gar Lok, 3,705,114.
 Thompson, Don D., 3,675,121.
 Unterberger, Robert R., 3,634,753.
 Vitter, Albert L., Jr.; and McDonald, Hugh G., 3,703,096.
 Wedel, Carroll J.; and Gardner, John D., 3,652,663.
 West, William W.; Bolt, Robert O.; and Gordon, Chester D., 3,639,546.
 White, Robert J., 3,677,971.
 White, Robert J., 3,698,881.
 Wilkes, John B., 3,647,842.
 Wilkes, John B., 3,647,851.
 Woo, Gar Lok, 3,634,287.
 Woo, Gar Lok, 3,663,609.
 Woo, Gar Lok, 3,673,122.
 Woo, Gar Lok, 3,707,352.
 Chevtsev, Andrei Vasilievich; See—
 Andrusenko, Petr Ivanovich; Dolganov, Kint Evgenievich; Kovalev, Alexandr Ivanovich; Berezovsky, Pavel Iosipovich; Dmitrenko, Vladimir Ilich; Shukshin, Nikolai Pavovich; Gutarevich, Jury Feodosievich; Kislov, Vladimir Grigorievich; Chevtsev, Andrei Vasilievich; Koshman, Eduard Ivanovich; and Filippov, Vladimir Vasilievich, 3,676,023.
 Chew, Frank D. Smoke abatement apparatus. 3,706,538, 12-19-72, Cl. 23-284.000.
 Chew, Harvey L.; See—
 Zimmer, William F., Jr.; and Chew, Harvey L., 3,653,859.
 Zimmer, William F., Jr.; and Chew, Harvey L., 3,701,703.
 Cheze, Bernard J., to Portain Poclain Materiel. Telescopic jibs. 3,670,465, 6-20-72, Cl. 52-115.
 Chhabra, Indarmohan S.; See—
 Giardini, Dante S.; and Chhabra, Indarmohan S., 3,699,728.
 Chi, Dongsuk; See—
 Lee, Hanju; and Chi, Dongsuk, 3,679,604.
 Chi, John W. H.; See—
 Cottam, Alfred E.; Chi, John W. H.; Kim, Chang-Kyo; and Flaherty, Robert, 3,638,023.
 Chi, John W. H.; and Flaherty, Robert, to Westinghouse Electric Corporation. Thermal control garment. 3,688,762, 9-5-72, Cl. 126-204.000.
 Chi Kai Kwok, Clyde, to Rippingill, Edward V., Jr. Fluid oscillator and pulsating dental syringe employing same. 3,698,416, 10-17-72, Cl. 137-119.000.
 Chi, Tzu-Chiang, 30% to Andress, William I. Process for folding sheet material and packaged therefor. 3,701,522, 10-31-72, Cl. 270-39.000.
 Chia, Yuan-Tsan, to Du Pont de Nemours, E. I., and Company. Catalytic isomerization of 2-methyl-3-butenenitrile to linear penenenitriles in the presence of certain metal salt and/or tri(hydrocarbyl)boron promoters. 3,676,481, 7-11-72, Cl. 260-465.900.
 Chiang, John S. C.; and Hogya, Bernard J., to FMC Corporation. Process of etching metal with ammonium persulfate with recovery and recycling. 3,671,344, 6-20-72, Cl. 156-19.000.
 Chiang, Peter T., to United States Steel Corporation. Wet-process phosphoric acid extraction including separating solvent from the extract by freezing solvent. 3,707,357, 12-26-72, Cl. 23-312.00p.
 Chiang, Ta Kuan; See—
 Gourdine, Meredith C.; Von Voros, Geza; and Chiang, Ta Kuan, 3,650,092.
 Chiappone, Sal; See—
 Sciurba, Edward; and Chiappone, Sal, 3,638,525.
 Chiarelli, Carl. Automatic fire protection for deep fat fryer. 3,691,936, 9-19-72, Cl. 99-337.000.
 Chiarelli, Robert; Rassat, Andre; Besson, Rene; and Salvi, Antoine. Nuclear magnetic resonance magnetometer solutions containing nitroxide free radicals having deuterium atoms. 3,702,831, 11-14-72, Cl. 252-408.000.
 Chiarelli, Ronald L. Puck for ice hockey. 3,704,891, 12-5-72, Cl. 273-128.00r.
 Chiarenza, Melchior S. Artificial fishing lure. 3,680,249, 8-1-72, Cl. 43-42.060.
 Chiarolanza, Generoso; and Chiarolanza, Joseph. Selectively lockable floating snowplow mount. 3,640,005, 2-8-72, Cl. 37-42.
 Chiarolanza, Joseph; See—
 Chiarolanza, Generoso; and Chiarolanza, Joseph, 3,640,005.
 Chiasson, Wilbert A.; Barhorst, Ralph E.; and Muter, Bryce A., to Hobart Brothers Company. Welding apparatus. 3,688,180, 8-29-72, Cl. 321-21.000.
 Chiavaroli, Henry T.; See—
 Abreu, Christian O.; Bernhard, John S.; and Chiavaroli, Henry T., 3,654,654.
 Chiba, Matsubei; Kito, Kiyoharu; Mizutani, Hiroshi; and Kachi, Masayasu, to Nihon Senshoku Kikai Kaishiki Kaisha. Apparatus for treatment of a fabric. 3,659,438, 5-2-72, Cl. 68-177.
 Chiba, Minoru, to Nichicon Capacitor Limited. Semiconductive ceramic capacitor. 3,671,818, 6-20-72, Cl. 317-230.000.
 Chiba, Seibi; and Sekimoto, Tadahiyo, to Nippon Electric Company, Limited. Method and apparatus for echo cancellation in telephone networks utilizing two-wire/four-wire equipment. 3,660,619, 5-2-72, Cl. 179-170.2.
 Chibata, Ichiro; Tosa, Tetsuya; Sano, Ryujiro; and Ando, Katsuko, to Tanabe Seiyaku Co., Ltd. Asparaginase having anti-tumor activity and process for preparing the same. 3,652,402, 3-28-72, Cl. 195-66.
 Chibata, Ichiro; Yamada, Shigeki; and Yamamoto, Masao, to Tanabe Seiyaku Co., Ltd. Resolution of ammonium-N-acetyl-DL- α -aminophenylacetate and preparation thereof. 3,660,474, 5-2-72, Cl. 260-518.00r.
 Chibata, Ichiro; Kakimoto, Toshio; Shibatani, Takeji; and Nishimura, Noriyuki, to Tanabe Seiyaku Co., Ltd. Fermentative preparation of coenzyme A. 3,698,999, 10-17-72, Cl. 195-29.000.
 Chicago Bridge & Iron Company; See—

- Arne, Christian, 3,706,627.
 Delahunty, Terry Wayne, 3,658,499.
 Garrigus, James P., 3,677,016.
 McCabe, John Stanton, 3,664,379.
 McCabe, John Stanton, 3,683,631.
 Pieper, Charles Joseph; and Langmead, Edmund Clarence, Jr., 3,682,460.
 Rothrock, Elmer Weyman; and Niku, Silvio D., 3,655,090.
 Tam, William A., 3,688,729.
 Tam, William A., 3,690,108.
 Walker, James Donald, 3,649,529.
 Walker, James Donald, 3,666,663.
 Walker, James Donald, 3,694,106.
 Walker, James Donald, 3,696,029.
 Wissmiller, Ivan Lee, 3,687,149.
 Chicago Display Company; See—
 Snyder, Alan K., 3,640,389.
 Snyder, Harlan K., Jr., 3,685,184.
 Chicago Dryer Company; See—
 Kamberg, Eduard F., 3,680,852.
 Chicago Lock Co.; See—
 Kerr, William J., 3,653,236.
 Kerr, William J., 3,661,000.
 Chicago Metallic Corporation; See—
 Balfanz, Glenn F., Jr., 3,665,837.
 Chicago Musical Instrument Co.; See—
 Kanstul, Zigmant J.; and Quinn, Gregory F., 3,641,863.
 Morez, Eugene Stephen, 3,694,561.
 Rendell, Stanley E., 3,641,862.
 Rendell, Stanley E., 3,685,385.
 Chicago Pneumatic Tool Company; See—
 Amsberg, Lester A.; and Wallace, William K., 3,645,341.
 Amsberg, Lester A.; Bilodeau, Paul J.; and Judd, Sebastian F., 3,685,593.
 Bilodeau, Paul J., 3,653,298.
 Lesner, Richard S., 3,661,040.
 Schaedler, Raymond J.; and Amsberg, Lester A., 3,667,345.
 Chicago Rawhide Manufacturing Company; See—
 Hatch, Seymour A., 3,675,936.
 Mowat, Keith B.; and Heyn, William O., 3,640,542.
 Chicago Show Printing Company; See—
 Krebs, Jimmie M., 3,674,156.
 Chicago Switch, Inc.; See—
 Farrell, Guy M., 3,671,693.
 Chichanowski, Frances; See—
 Carter, Robert W.; Chichanowski, Steve; and Chichanowski, Frances, 3,662,225.
 Chichanowski, Steve; See—
 Carter, Robert W.; Chichanowski, Steve; and Chichanowski, Frances, 3,662,225.
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 Chick, David Michael; See—
 Draper, James Krishen; and Chick, David Michael, 3,671,779.
 Chickering, Kenton, III. Endless belt exerciser with accelerating and decelerating tread surfaces. 3,637,206, 1-25-72, Cl. 272-69.
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 Chida, Yugo; See—
 Yamashita, Takashi; Chida, Yugo; Ninagawa, Sadayoshi; and Kato, Tetsuya, 3,704,317.
 Chiddix, Max E.; See—
 Wynn, Robert W.; and Chiddix, Max E., 3,671,594.
 Chiddix, Max Eugene; See—
 Carluccio, Frank; and Chiddix, Max Eugene, 3,657,360.
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 Voparil, Rastislav, 3,701,899.
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 Chigarev, Alexandr Grigorievich; See—

Krylov, Sergei Sergeevich; Starykh, Nadezhda Timofeevna; Chigarev, Alexandr Grigorievich; and Eltsov, Andrei Vasilievich, 3,639,609.

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 Karpman, David Bentsionovich; Boris, Volkovich; Kononov, Spivak Leonidovich; Bednarchuk, Jury Vladimirovich; Chigirinsky, Alexander Abramovich; Ugrumov, Leonid Vasilievich; Glider, Evgeny Khaimovich; and Gradov, Oleg Borisovich, 3,639,794.

Chigirinsky, Alexander Abramovich; See—
 Kononov, Boris Leonidovich; Kildishev, Vasily Semenovich; Kaplunov, Vadim Borisovich; Tokarev, Vladimir Ivanovich; Spivak, Boris Volkovich; Byaly, Boris Ilich; Chigirinsky, Alexander Abramovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kariashvsky, Pavel Yakovlevich; and Cheremisov, Ivan Yakovlevich, 3,683,220.

Kononov, Boris Leonidovich; Glider, Evgeny Khaimovich; Chigirinsky, Alexander Abramovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; and Spivak, Boris Volkovich, 3,686,522.

Chigrinov, Mikhail Grigorievich; See—
 Rutes, Viktor Savelievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballard, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, Anatoly Ivanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosochenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.

Chikamasa, Hiroshi; See—
 Mimura, Norihisa; Chikamasa, Hiroshi; Aso, Kotaro; and Sato, Takashi, 3,648,984.

Chikanari, Kenichi; See—
 Inamura, Seiichi; Kondo, Yusuke; Akita, Minoru; and Chikanari, Kenichi, 3,640,509.

Chikanon, Mitsuo; See—
 Matsuura, Takashi; and Chikanon, Mitsuo, 3,706,688.

Chikata, Masaru; See—
 Oba, Harutaro; Sawazu, Toshihiko; Takeuchi, Sugio; and Chikata, Masaru, 3,670,957.

Chikatsu, Nagoya; See—
 Kato, Tatsuya; Chikatsu, Nagoya; Suwada, Ataru; and Ohno, Satoyoshi, 3,658,766.

Chikatsu, Tatsusuke; Shimokawa, Shinichi; Yoshida, Yoshinori; Imamura, Masatugu; Nishiwaki, Ituo; Akimoto, Toshio; and Fujiwara, Tatsuji, to Japan Synthetic Rubber Co., Ltd. Process for producing highly pure isoprene. 3,692,861, 9-19-72, Cl. 260-681.50r.

Chikirda, Sergei Ivanovich; See—
 Kasatkin, Jury Ivanovich; Filimonov, Alexandr Vasilievich; Erlykov, Nikolai Sergeevich; Chikirda, Sergei Ivanovich; Strashinsky, Vadim Konstantinovich; and Zeldin, Vladimir Pinsokhovich, 3,681,833.

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 Dalke, Charles Arthur; and Child, Cedric L., 3,660,233.

Child, James L.; See—
 Schmunk, John D.; and Child, James L., 3,681,925.

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 Luscher, Paul; Hudson, Ben A.; and Childers, Billie W., 3,672,947.

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- Reistle, Carl E., III; Childers, Thomas W.; Burkhardt, Joseph A.; Mc Lallen, Dewitt L., Jr.; and Woolley, Carroll A., 3,653,435.
- Childers, Thomas W., to Esso Production Research Company. Plastic oil barrier. 3,653,213, 4-4-72, Cl. 61-1.
- Childers, Thomas W., to Esso Production Research Company. Underwater pollution control. 3,670,814, 6-20-72, Cl. 166-500.
- Childers, Thomas W.; Burkhardt, Joseph A.; and Koerner, Roger J., to Esso Production Research Company. Submerged hydraulic system. 3,677,001, 7-18-72, Cl. 60-51,000.
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- Controni, Guido; Khan, Waheed N.; Patrick, James R.; and Ross, Sydney, 3,649,460.
- Childress, Allen M., Jr. Portable grooming kit. 3,664,353, 5-23-72, Cl. 132-79.
- Childress, Clyde O. Method of molding utilizing thermosetting resin and magnetized filler material. 3,668,176, 6-6-72, Cl. 260-37,0ep.
- Childress, Ezra E., to Stewart & Stevenson Services, Inc. Combination boat trim tab and heat exchanger. 3,650,310, 3-21-72, Cl. 165-44.
- Childress, James D.: *See—*
- Rubin, Bernard; and Childress, James D., 3,679,360.
- Childress, Milton T.: *See—*
- Holbert, Marvin L., Jr.; and Childress, Milton T., 3,656,549.
- Childress, Scott J.: *See—*
- Sallay, Stephen I.; and Childress, Scott J., 3,634,434.
- Sellstedt, John H.; and Childress, Scott J., 3,641,000.
- Sulkowski, Theodore S.; and Childress, Scott J., 3,657,221.
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- Childs, Edwin E., Jr., to Dolomite Brick Corporation of America. Microwave method for tempering tar-bonded refractory bricks. 3,673,288, 6-27-72, Cl. 264-25,000.
- Childs, Elbert B., to Mobil Oil Corporation. Analytical apparatus and method for smokes and gases. 3,653,773, 4-4-72, Cl. 356-207.
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- Childs, Harry F. Filing cabinet. 3,643,807, 2-22-72, Cl. 211-10.
- Childs, Mark Glendower Hyde, to Lever Brothers Company. Fork lift truck pallet. 3,659,534, 5-2-72, Cl. 108-56.
- Childs, Rex E.: *See—*
- Lloyd, E. J.; and Childs, Rex E., 3,662,430.
- Childs, Robert S. Method and apparatus for packaging trees for transplanting. 3,662,490, 5-16-72, Cl. 47-1.
- Childs, Wesley H., to Standard Brands Incorporated. Method of producing hard candy. 3,632,357, 1-4-72, Cl. 99-134.
- Childs, William V.: *See—*
- Mac Mullin, Robert B.; Fox, Homer M.; Ruehlen, Forrest N.; and Childs, William V., 3,692,660.
- Childs, William V., to Phillips Petroleum Company. Sludge removal from electrochemical cell. 3,655,525, 4-11-72, Cl. 204-1.
- Childs, William V., to Phillips Petroleum Company. Treated porous anode for electrochemical fluorination. 3,655,548, 4-11-72, Cl. 204-284.
- Childs, William V., to Phillips Petroleum Company. Current-carrying sparger for introducing feed to porous electrode. 3,657,100, 4-18-72, Cl. 204-284.
- Childs, William V.; and Ruehlen, Forrest N., to Phillips Petroleum Company. Combination electrode. 3,658,685, 4-25-72, Cl. 204-284.
- Chilenskas, Albert A.: *See—*
- Cairns, Elton J.; Chilenskas, Albert A.; Steunenberg, Robert K.; and Shimotake, Hiroshi, 3,666,560.
- Chill, Duane Charles. Fish hook setting device. 3,660,922, 5-9-72, Cl. 43-15.
- Chilman, John Alfred: *See—*
- Bass, Robert Mehew; and Chilman, John Alfred, 3,633,411.
- Brooking, Ivor Harold; and Chilman, John Alfred, 3,663,119.
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- Chilton, Charles B., to Bendix Corporation, The. Commutated motor speed measuring means. 3,675,126, 7-4-72, Cl. 324-168,000.
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- Mulaskey, Bernard F.; and Chilton, Elmore F., 3,673,079.
- Chilton, Henry Thomas Joseph; Everest, David Anthony; and Sayce, Ian George, to Monsanto Chemicals Limited. Process for the production of finely-divided silica. 3,642,453, 2-15-72, Cl. 23-294.
- Chilton, Henry Thomas Joseph, to Monsanto Chemicals Limited. Production of silica sols by electrolysis. 3,654,105, 4-4-72, Cl. 204-101.
- Chilton, Henry Thomas Joseph; and Lumley, Gwilym Ivor, to Monsanto Chemicals Limited. Electrolytic cell. 3,707,467, 12-26-72, Cl. 204-250,000.
- Chilton, Homer S., to Music Service Company, Inc. Means for discouraging theft. 3,653,342, 4-4-72, Cl. 109-31.
- Chimiel, Chester T.: *See—*
- Walker, James L.; and Chimiel, Chester T., 3,666,272.
- Chin, Charles L. D.: *See—*
- Hendry, James W.; Kimball, Jack E.; and Chin, Charles L. D., 3,687,582.
- Chin, Gilbert Y.; and Hart, Robert R., to Bell Telephone Laboratories, Incorporated. Processing of copper alloys. 3,663,311, 5-16-72, Cl. 148-11,50r.
- Chin, Henry. Navigational calculator. 3,638,311, 2-1-72, Cl. 33-1.
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- Chin, Sonny B. Photographic equipment cart. 3,677,573, 7-18-72, Cl. 280-43,100.
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- Chin, Wesley S. C. Plastic greenery strips for decorative purposes. 3,644,164, 2-22-72, Cl. 161-25.
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- Macyczko, John; and China, Endy, 3,663,771.
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- Chinal, Jean Pierre. Method and device for binary-decimal conversion. 3,660,837, 5-2-72, Cl. 340-347,0dd.
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- Hayashi, Masahiro; Seki, Koichi; and Chinbe, Hiroshi, 3,689,126.
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- Chindgren, Carl J.: *See—*
- Staker, Walter L.; Dean, Karl C.; and Chindgren, Carl J., 3,660,022.
- Ching, Cho Kin; Cohen, Walter; and Tseng, Stanley. Alkaline dry cell. 3,660,167, 5-2-72, Cl. 136-107,000.
- Chini, Pier Lodovico: *See—*
- Ronzoni, Isidoro; Catoni, Mario; and Chini, Pier Lodovico, 3,655,829.
- Chinlund, Carol B.: *See—*
- Chinlund, Joseph F.; and Lambert, C. J., 3,662,570.
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- Chinoi Gyogyszer-es Vegyeszeti Termek Gyara RT: *See—*
- Csaszar, Janos; Nizsalovszky, Laszlo; and Tardos, Laszlo, 3,652,582.
- Ecsery, Zoltan; Kosa, Ildiko; and Knoll, Jozsef, 3,663,610.
- Guczoghy, Lajos; Puklics, Maria; Kelemen, Gyorgy; and Leszkovsky, Gyorgy, 3,639,415.
- Harsanyi, Kalman; Reiter, Jozsef; Korbonits, Dezso; Goncz, Csaba; Takacs, Kalman; Bakó, Erzsebet; Leszkovszky, Gyorgy; Tardos, Laszlo; and Vertesy, Csaba, 3,647,809.
- Harsanyi, Kalman; Takacs, Kalman; Relle, Zsuzsa, nee Somfai; Milak, Eva, nee Krompecher; Tardos, Laszlo; Korbonits, Dezso; Kiss, Pal; and Gonczy, Csaba, 3,673,188.
- Meszaros, Zoltan; Knoll, Jozsef; and Szentmiklosi, Peter, 3,696,197.
- Chinuki, Takashi: *See—*
- Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,647,866.
- Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,662,000.
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- Chiolle, Antonio: *See—*
- Parrini, Paolo; Credali, Lino; and Chiolle, Antonio, 3,686,100.
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- McNally, Francis X.; and Chiosi, Louis, 3,641,353.
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- Chiquiar-Arias, Marcelo. Disposable container. 3,667,657, 6-6-72, Cl. 222-541,000.
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- Koceich, Mark J.; and Chirash, William, 3,702,826.
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- Chirco, Peter R., to Huck Manufacturing Company. Fastener installation and crimping tool. 3,693,399, 9-26-72, Cl. 72-391,000.
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- Chisholm, Douglas S.: *See—*
- Schrenk, Walter J.; Chisholm, Douglas S.; Cleereman, Kenneth J.; and Alfrey, Turner, Jr., 3,647,612.
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- Chisholm, Douglas S., to Dow Chemical Company, The. Extrusion die. 3,697,211, 10-10-72, Cl. 18-12,0dm.
- Chisholm, Eugene H.; and Stuart, Robert L. Detachable goose-neck towing device. 3,698,740, 10-17-72, Cl. 280-491,00c.
- Chisholm, John Adrian: *See—*
- Kniebes, Duane V.; Chisholm, John Adrian; and Stubbs, Robert C., 3,686,930.
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- Potter, Basil E.; Bosworth, Theodore K.; Chisholm, John P.; and Cadzow, James A., 3,659,085.
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- Burton, Charles G., 3,648,447.
- Jarrell, Virgil N.; and Towson, Arthur L., 3,705,483.
- Chisso Corporation: *See—*
- Ando, Masao; and Takagi, Hideaki, 3,632,975.
- Ando, Masao, 3,632,976.
- Ando, Masao, 3,665,154.
- Ando, Masao; and Hori, Masao, 3,678,243.
- Eshima, Shozo; Fujiwara, Isao; and Nakagawa, Hidenori, 3,657,062.
- Hino, Hiroyuki; Asakuno, Hiroyoshi; and Yamada, Tetsuya, 3,678,545.
- Inoi, Takeshi; Sueyoshi, Koji; Fujii, Masahiro; Shoji, Kenjiro; Shudo, Akio; Yoshizaki, Takayoshi; and Yutaka, Matsuo, 3,703,518.
- Konotsune, Shiro; Kachi, Atsuyuki; Tonoike, Takao; and Mori, Kinya, 3,669,948.
- Nagao, Nobuo; and Okuda, Toshio, 3,646,184.
- Ohira, Fukuichi; Matsumura, Toshikazu; and Shiode, Chuji, 3,642,761.
- Shirai, Sio; Kunitune, Kouichi; and Muraki, Masaaki, 3,642,951.
- Chitayat, Anwar K.: *See—*
- Brault, Andre R.; Chitayat, Anwar K.; and Beech, Ronald C. M., 3,704,946.
- Chitayat, Anwar K., to OPTOmechanisms, Inc. Means for generating compensating control means. 3,668,501, 6-6-72, Cl. 318-632.
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- Chitty, Michael W., to Century Projector Corporation. Motion picture projector excess rotational speed detector. 3,647,157, 3-7-72, Cl. 242-191.
- Chiu, Thomas T.; Hock, Kenneth R.; and Nagle, Floyd B., to Dow Chemical Company, The. Solvent resistant alkenyl aromatic resinous shaped article. 3,669,718, 6-13-72, Cl. 117-72,000.
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- Smith, Terry K.; Chiu, Ying-Cheh; and Lawson, Jimmie B., 3,707,193.
- Chiuilli, Angelo J.; and Wegman, Edwin H., to Agricultural Biologicals Corporation. Process for producing collagenase. 3,705,083, 12-5-72, Cl. 195-62,000.
- Chivinsky, Joseph A., to Allegheny Ludlum Steel Corporation. Composite material and production thereof. 3,693,242, 9-26-72, Cl. 29-480,000.
- Chiyoda Kako Kensetsu Kabushiki Kaisha: *See—*
- Sugano, Seiroku; Arai, Tomio; Hayami, Seinoshin; Watanabe, Sadao; Fujishiro, Shigeru; and Ono, Takeo, 3,689,372.
- Washimi, Koichi; Kanbayashi, Masaaki; Kanai, Toshio; and Fujimori, Akihiro, 3,674,679.
- Chiyoda Sangyo Co., Ltd.: *See—*
- Nishikawa, Masataka, 3,650,230.
- Chizhikov, Vladimir Maiorovich: *See—*
- Alexandrov, Adolf Moritovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Kantor, Ilia Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhanelidze, Vazna Venediktovich; Topolyanky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, 3,689,010.
- Chizinsky, George, to KEV Electronics Corporation. Method of making a field effect transistor. 3,681,220, 8-1-72, Cl. 204-164,000.
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- Chloupek, Frank J.: *See—*
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- Chlouper, Frank J.: *See—*
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- Chmela, Stephen M. Lubricator for roll feed. 3,675,737, 7-11-72, Cl. 184-17,000.
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- Chabier, Martial, 3,683,490.
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- Cho, Antonio. Lead sharpener. 3,698,456, 10-17-72, Cl. 144-28,110.
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- Choate, William C.: *See—*
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Esler, Donald F.; and Choby, Edward G., Jr., 3,703,419.

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Reich, Ismar M., 3,679,416.

Chodnek, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; Schwieter, Ulrich; and Suchy, Milos, to Hoffmann-La Roche Inc. Methylene-dioxy-phenoxy derivatives. 3,686,222, 8-22-72, Cl. 260-340.500.

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Park, Joseph D.; and Choi, Sam Kwon, 3,637,871.

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Sestanj, Kazimir; and Chomedey, Laval, 3,682,963.

Chomerics, Inc.: See—
Seeter, Richard E., Jr.; and Hodgson, George T., Jr., 3,705,276.

Chomyn, Karl D., to Esso Research and Engineering Company. Selective hydrogenation of diolefins. 3,696,160, 10-3-72, Cl. 260-677.00h.

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Chong, Wilson. Pile borer. 3,679,008, 7-25-72, Cl. 175-220.000.

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Chopovsky, Jury Ivanovich: See—
Scherban, Alexandr Nazarevich; Furman, Neonil Izrailevich; Sotnichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Jury Ivanovich; Sutormin, Jury Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chaschinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna, 3,678,489.

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Choquet, Michel F., to International Business Machines Corporation. Data transmission system. 3,636,260, 1-18-72, Cl. 179-15.

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Myers, Lawrence A., 3,675,627.

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Ellis, Larry C.; Chorkey, William J.; and Heideman, Robert J., 3,666,256.

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Buslik, Walter S.; and Chou, Albert S., 3,701,610.

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Wahlster, Manfred; and Choudbury, Alok, 3,677,323.

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Breitbach, Fritz; and Choulat, Gustav, 3,661,507.

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Hildebrandt, Floyd J.; and Chovanec, John J., 3,685,347.

Chow, Alfred W., to Smith Kline & French Laboratories. Polysubstituted as-triazino[5,6-b]indoles. 3,637,687, 1-25-72, Cl. 260-249.9.

Chow, Chao K., to International Business Machines Corporation. Method and apparatus for style and specimen identification. 3,634,822, 1-11-72, Cl. 340-146.3.

Chow, Ho; and Chow, Junlin Wong. Key case. 3,696,649, 10-10-72, Cl. 70-456.00r.

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Chow, Ho; and Chow, Junlin Wong, 3,696,649.

Chow, Ken-Tang; Stull, John William; and Bates, Charles Edward, to Electric Nuclear Laboratories, Inc. Composite light source. 3,691,390, 9-12-72, Cl. 250-217.0ss.

Chow, Kungta K.: See—
Comstock, Richard L.; Chow, Kungta K.; and Leonard, William B., 3,653,744.

Chow, Peter C. M., to Grove Valve and Regulator Company. Swing out valve structure. 3,672,632, 6-27-72, Cl. 251-151.000.

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Marvel, Carl S.; and Chow, Roberta C. L., 3,640,927.

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Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., 3,696,131.

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Alessio, Sergio A.; Chow, Weichien; and Kosem, Marion, 3,703,033.

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Chowning, John M., to Leland Stanford Junior University. The board of trustees of the. Method and apparatus for simulating location and movement of sound. 3,665,105, 5-23-72, Cl. 179-1.

Chramiec, Mark A.: See—
Walsh, George M.; and Chramiec, Mark A., 3,665,413.

Chretien, Roland; and Richaud, Henri, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Electrolytic method for producing a colored anodized layer on aluminum and alloys of aluminum. 3,658,665, 4-25-72, Cl. 204-58.

Chretien, Jean. Device for fixing the canvas of a rug during fabrication. 3,658,316, 4-25-72, Cl. 269-54.

Chris-Craft Industries, Inc.: See—
Rosin, Jacob; and Ang, Frank S., 3,632,642.

Rosin, Jacob; and Ang, Frank S., 3,668,231.

Rosin, Jacob; and Ang, Frank S., 3,673,259.

Thompson, Theodore G., 3,702,485.

Chrisman, Willis Lee: See—
Stauffer, John Dale; Arnaud, Edwin Henry, Jr.; and Chrisman, Willis Lee, 3,645,656.

Chrisp, Joseph D., to Du Pont de Nemours, E. I., and Company. Chemical foaming of water-bearing explosives. 3,706,607, 12-19-72, Cl. 149-2.000.

Christ, David, to Devenco Incorporated. Vehicle location system and method. 3,697,941, 10-10-72, Cl. 340-23.000.

Christ, Herbert. Device for placing tiles on building walls or the like. 3,673,755, 7-4-72, Cl. 52-749.000.

Christ, Klaus: See—
Gunsner, Peter; Zechall, Richard; and Christ, Klaus, 3,659,907.

Schnaebel, Eberhard; Fleischer, Helmut; Zechall, Richard; Domann, Helmut; Maisch, Wolfgang; and Christ, Klaus, 3,696,270.

Zechall, Richard; Domann, Helmut; Fleischer, Helmut; Christ, Klaus; and Maisch, Wolfgang, 3,642,329.

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Gunsner, Peter; and Christ, Klaus H., 3,659,263.

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Christ, Wilhelm; and Weissbach, Peter, to Then, Rudolf, Fabereimaschinenfabrik Gesellschaft mit beschränkter Haftung, Firma. Method for wet treatment of elongated textile material. 3,679,357, 7-25-72, Cl. 8-152.000.

Christena, Ray C., to Celanese Corporation. Preparation of high solids polymer aqueous emulsions. 3,637,563, 1-25-72, Cl. 260-29.6.

Christena, Ray C.; and Johnston, Earnest L., to Vulcan Materials Company. Polyesteramides. 3,676,291, 7-11-72, Cl. 161-195.000.

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Christensen, Alton O. MOSFET decoder topology. 3,652,906, 3-28-72, Cl. 317-235.

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Christensen, Burton G.: See—
Pollak, Peter I.; Wendler, Norman L.; and Christensen, Burton G., 3,649,619.

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Christensen, Carl W., to Shipley Company, Inc. Light sensitive naphthoquinone diazide composition containing a polyvinyl ether. 3,634,082, 1-11-72, Cl. 96-33.

Christensen, Carl W.; and Isaacson, Calvin M., to Shipley Company, Inc. Process for applying photoresist. 3,649,283, 3-14-72, Cl. 96-85.

Christensen, Chester W., Jr. Exercising belt with muscle stimulating prongs. 3,637,207, 1-25-72, Cl. 272-80.

Christensen Diamond Products Company: See—
Rowley, David S.; and Lapp, William A., 3,694,033.

Christensen, Donald W., to Young Radiator Company. Protection-sleeve for finned-tubes of heat-exchanger core-unit. 3,670,811, 6-20-72, Cl. 165-144.000.

Christensen, Edward Walter, II; and Eu Daly, Ronald Dale, to RCA Corporation. Deflection yoke mount. 3,697,909, 10-10-72, Cl. 335-210.000.

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Germino, Felix Joseph; Stejskal, Joseph Frank; Christensen, Edwin Hans; and Kite, Francis Ervin, 3,661,895.

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Christensen, Elmer: See—
Bentley, Allan M.; and Christensen, Elmer, 3,667,517.

Fischer, Eduard F.; Farnworth, Edwin; and Christensen, Elmer, 3,661,283.

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Christensen, Gerald M.: See—
Burton, George M.; Christensen, Gerald M.; and Pilgrim, Arthur J., 3,657,073.

Christensen, Henry Marinus. Method of making iron dextran-preparations. 3,697,502, 10-10-72, Cl. 260-209.00d.

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Desnick, Mandel L.; Willcox, Jesse A.; and Christensen, Jay A., 3,642,411.

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Arrigo, Joseph T.; and Christensen, Nils J., 3,663,626.

Arrigo, Joseph T.; and Christensen, Nils J., 3,678,108.

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Christensen, Paul M.; and Petitjean, Robert J., to Arrow-Hart, Inc. Fixed and movable contact structure for disconnect switches. 3,639,715, 2-1-72, Cl. 200-166.

Christensen, Poul N.: See—
Lazarus, Stanley D.; and Christensen, Poul N., 3,705,133.

Christensen, Robert I., to Chevron Research Company. Separating light gases from a hydroconversion product. 3,694,343, 9-26-72, Cl. 208-100.000.

Christensen, Robert S.; and Johnson, Richard D., said Christensen assor. to said Johnson, Richard D. Corner paint roller. 3,662,422, 5-16-72, Cl. 15-230.11.

Christensen, Sanborn & Matthews: See—
Christensen, Orland M., 3,647,089.

Christensen, Svend, to Crisplant A/S. Conveyor systems. 3,662,906, 5-16-72, Cl. 214-41.

Christenson, Roger M.: See—
Dowbenko, Rostyslaw; and Christenson, Roger M., 3,645,984.

Dowbenko, Rostyslaw; and Christenson, Roger M., 3,647,737.

Makhlouf, Joseph M.; Christenson, Roger M.; and Halcoussis, Andrew, 3,666,710.

Parker, Earl E.; Christenson, Roger M.; and Dowbenko, Rostyslaw, 3,655,823.

Christenson, Roger M.; and Anderson, Carl C., to National Starch and Chemical Corporation, mesne. Aliphatic hydrocarbon-compatible pressure-sensitive adhesive. 3,654,213, 4-4-72, Cl. 260-33.6.

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Christenson, Roger M.; and Le Bras, Louis R., to PPG Industries, Inc. Controlling solids in electrodeposition compositions. 3,663,400, 5-16-72, Cl. 204-181.000.

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Christensson, Od Wikar, 3,690,091.

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Blommendaal, Ronald, 3,670,332.

Christian, Andrew J.; Spence, John H.; and Han Yang, Tung, to Pullman Incorporated. Railway car body bolster center plate assembly. 3,631,811, 1-4-71, Cl. 105-199.

Christian, Claus, to Braun Aktiengesellschaft. Measuring and indicating arrangement. 3,665,703, 5-30-72, Cl. 58-152.

Christian, Daniel T.; Look, Melvin; Nobell, Albert; and Armstrong, Thomas S., to Kaiser Aluminum & Chemical Corporation. Process for producing polyoxyalkylene ether-polyols from lignin and tannin and products so made. 3,654,194, 4-4-72, Cl. 260-2.5.

Christian, Gary Dale, to Miles Laboratories, Inc. Potentiometric titration process. 3,655,526, 4-11-72, Cl. 204-1.

Christian, John B., to United States of America, Air Force. Grease composition comprising polyfluoroalkyl-polysiloxane. 3,642,626, 2-15-72, Cl. 252-33.6.

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Christian, Marcella B.: See—
Christian, Joseph D.; and Christian, Robert F., 3,637,069.

Christian, Robert F.: See—
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- Christian, Robert L.: *See*—
Heller, William C., Jr.; Leatherman, Alfred F.; and Christian, Robert L., 3,705,819.
- Christian Rovsing A/S: *See*—
Nielsen, Lars Stig, 3,669,120.
- Christian, Warren E., to Norton Company. Coated abrasive cones. 3,670,463, 6-20-72, Cl. 51-394,000.
- Christiani & Nielsen A/S: *See*—
Havno, Kaj, 3,665,720.
- Christiani & Nielsen Limited: *See*—
Persicke, Gunter, 3,638,913.
- Christians, John A.; and Pannel, Otis R., to United States of America, Army. Mud anchor. 3,653,355, 4-4-72, Cl. 114-206.
- Christiansen, Deryl R.; and Christiansen, Jack R., said Christiansen, D. R., assor. to said Christiansen, J. R. Self-contained envelope opening strip. 3,650,463, 3-21-72, Cl. 229-81.
- Christiansen, Francois T. W.: *See*—
Koches, Andrew L.; and Christiansen, Francois T. W., 3,648,569.
- Christiansen, Gerald E., to Young, Stephen A. Bath drain lift wire connection. 3,693,197, 9-26-72, Cl. 4-203,000.
- Christiansen, Godtfred K., to A/S Modulex. Slide-bar assembly having complementary slidable members. 3,640,017, 2-8-72, Cl. 46-23.
- Christiansen, Godtfred Kirk, to Interlego A.G. Splined shaft and wheel retained thereon by spring and hub element. 3,638,352, 2-1-72, Cl. 46-23.
- Christiansen, Godtfred Kirk, to Interlego A.G. Interlocking arrangements. 3,667,153, 6-6-72, Cl. 46-30,000.
- Christiansen, J. R.: *See*—
Christiansen, Deryl R.; and Christiansen, Jack R. (said Christiansen, D. R., assor. to said), 3,650,463.
- Christiansen, Jack R.: *See*—
Christiansen, Deryl R.; and Christiansen, Jack R., 3,650,463.
- Christiansen, Michael G. Bushing insert for anti-friction bearing assemblies. 3,637,272, 1-25-72, Cl. 308-189.
- Christiansen, Paul J.: *See*—
Bird, Melvyn R.; Christiansen, Paul J.; and Zeigler, Philip B., 3,645,590.
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Dacus, Herbert R.; and Christner, Harry V., 3,665,693.
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Dukert, Andrew A.; and Christofas, Alkis, 3,680,997.
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Goff, Richard E., 3,687,442.
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Nickel, Werner; and Christopoulos, Nikolaos, 3,677,151.
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Hucker, Howard B.; and Christy, Marcia E., 3,660,389.
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- Christy, Mark H.: *See*—

- Rondas, Ivan V.; and Christy, Mark H., 3,693,888.
- Christy, Melvin G.: *See*—
Key, Robert L., III; and Christy, Melvin G., 3,678,939.
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Dunmire, Paul G., 3,687,490.
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Jones, Harry S., 3,683,772.
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Brill-Edwards, Harry, 3,642,457.
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- Milidantri, Thomas; and Brill-Edwards, Harry W., 3,647,517.
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Schweikher, Ernest W., 3,657,078.
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Chronister, Clyde H., 3,665,952.
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- Chrouch, Laurence A.: *See*—
Koehlinger, Allen W.; and Chrouch, Laurence A., 3,688,414.
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Chrysanthis, Chris A.; and Kourtoglou, George Chris, 3,669,254.
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- Blomquist, Alfred P.; Kaza, Kameswar R.; and Egrikavuk, Ismail Y., 3,631,744.
- Brockie, Thomas H., 3,676,012.
- Buchsky, David M.; and Somjak, John R., 3,685,812.
- Chadwick, Alexander, 3,683,875.
- Claunch, Robert W., 3,673,614.
- Eshelman, Robert W., 3,646,925.
- Eshelman, Robert W., 3,661,128.
- Gergle, Robert G.; and Dobrasevic, Zdravko D., 3,663,002.
- Goodwillie, Richard E., 3,665,904.
- Harrington, Jerry E., 3,677,672.
- Hunter, William A., 3,687,335.
- Hunter, William A., 3,698,160.
- Lansinger, Jere R.; and Mac Afee, James E., 3,632,220.
- Leising, Maurice B.; Greif, Herman J., Jr.; Kirberg, James R.; and Willson, Philip J., 3,647,393.
- Leising, Maurice B.; and Benford, Howard L., 3,650,162.
- Macadam, Richard G., 3,633,020.
- Mark, Alfred J., 3,675,289.
- Ohar, Wasyli; and Mc Intire, Elmer L., 3,662,724.
- Pace, John G., 3,696,620.
- Pfeifer, Richard E., 3,643,050.
- Ponziani, Louis F., 3,631,922.
- Povilaitis, Frank R.; and Strobel, Carmon R., 3,641,613.
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- Sarto, Jorma O., 3,662,722.
- Sarto, Jorma O., 3,677,240.
- Sarto, Jorma O.; and Dawson, Gary D., 3,704,698.
- Seaman, William J., 3,658,412.
- Smith, John L.; Dent, Robert A.; and Raetz, James R., 3,641,746.
- Teague, Dwight Maxwell; Bertrand, William F.; Willson, Philip J.; and Ammermann, Frank E., 3,667,975.
- Werner, Lawrence E., 3,643,320.
- Werner, Lawrence E., 3,687,404.
- Werner, Lawrence E., 3,694,895.
- Chrysler France: *See*—
Chavant, Claude, 3,631,844.
- Chavant, Claude, 3,680,534.
- Faure, Denis Marie, 3,706,362.
- Soubis, Jean-Pierre, 3,678,911.
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Duke, Anthony John; and Dagley, Horace John, 3,702,022.
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Hendel, Hans W.; Chu, Tsu-Kai; and Simonen, Thomas C., 3,668,066.
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Ishimoto, Sachio; Nakagawa, Koji; Togawa, Haruo; and Chubachi, Sumio, 3,649,685.
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Radford, Arthur S.; and Brown, Ronald J., 3,645,216.
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Kato, Tomio; and Nitta, Hifumi, 3,654,515.
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Kotov, Evgeny Pavlovich; Legostov, Viktor Vladimirovich; Stepanov, Evgeny Alexeevich; Chuchalov, Alexandr Mikhailovich; Maiorov, Nikolai Kuzmich; Merezko, Gennady Pavlovich; Komarov, Anatoly Semenovich; and Sosnitsky, Nikolai Georgievich, 3,694,570.
- Chudakov, Vyacheslav Andreevich: *See*—
Khrenov, Konstantin Konstantinovich; and Chudakov, Vyacheslav Andreevich, 3,697,914.
- Chuet, Peabody & Co., Inc.: *See*—
Herman J., Joy, 3,691,600.
- Chugai Denki Kogyo Kabushiki Kaisha: *See*—
Shibata, Akira, 3,635,389.
- Chugai Electric Industrial Co., Ltd.: *See*—
Shibata, Akira, 3,688,067.
- Chugai Seiyaku Kabushiki Kaisha: *See*—
Ando, Kunio; and Oishi, Hideo, 3,668,072.
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- Minoru, Shindo; Kanji, Maro; and Teizo, Shinozaki, 3,692,776.
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- Okazaki, Hiroshi, 3,658,650.
- Tsuda, Minoru; Yosida, Akio; and Yuki, Takamitsu, 3,671,468.
- Chuin Gear, Incorporated: *See*—
Marx, Norbert M.; and Lichtenwalter, Carl G., 3,685,756.
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Matsushita, Shigenori; Sato, Fumitaka; Chujo, Hisao; and Horiike, Minoru, 3,683,360.
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- Hashimoto, Yoshiaki; and Hayakawa, Masatosi, 3,665,812.
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- Darlington, Walter A.; and Chupp, John P., 3,674,849.
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- Newallis, Peter E.; Nufer, Hans L.; and Chupp, John P., 3,691,276.
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- Church, Cleveland B.: See—
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- Damman, Cornelis Christiaan; and Lawton, Raymond Joseph, 3,636,614.
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- Pratt, Leslie Raymond, 3,675,454.
- Churchill, Donald: See—
- Cartmell, James V.; and Churchill, Donald, 3,674,338.
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- Tittle, John Noel, 3,651,605.
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- Chvala, Bretislav; Janostik, Jaroslav; Mares, Jindrich; and Jerabek, Jan, to Elitex, Zavody textilniho strojirenstvi Generalni reditelstvi. Control device for a textile machine. 3,683,644, 8-15-72, Cl. 66-8.000.
- Chvatlinsky, Kurt: See—
- Bonleitner, Wolfgang; Chvatlinsky, Kurt; and Hanke, Walter, 3,698,530.
- Kittel, Arthur; and Chvatlinsky, Kurt, 3,643,772.
- Chytil, Josef, to Unicovske strojirny, narodni podnik. Analog programmed control system for excavators having jibs. 3,636,325, 1-18-72, Cl. 235-151.
- Chzhen, Igor Alexeevich: See—
- Maslennikov, Konstantin Nikolaevich; Argunov, Jury Vasilievich; Savonkin, Nikolai Porfirievich; Smyvin, Rudolf Mikhailovich; and Chzhen, Igor Alexeevich, 3,688,141.
- Cia Industrial de Novedades Plasticas y Metalicas, S.A.: See—
- Osante, Gabriel Ramirez, 3,635,479.
- Ciak, Frank John: See—
- Boback, Andrew Henry; Ciak, Frank John; and Strauss, Walter, 3,702,995.
- Cialone, Armando A. Ventilated welder's mask assembly. 3,657,740, 4-25-72, Cl. 2-8.
- Ciampa, Fred A.; and Mazzola, Sergio J., to Ford Motor Company. Positive displacement fluid pumps. 3,645,647, 2-29-72, Cl. 417-79.
- Ciampa, Fred A.; Serafini, Angelo; and Mazzarella, Louis, to Standard Box Spring Co. Box spring and method of assembly. 3,681,794, 8-8-72, Cl. 5-247.000.
- Ciampolini, Valerio, to Industrie S.p.A., mesne. Method and apparatus for determining irregularities in the behaviour of tires rotating under load. 3,661,014, 5-9-72, Cl. 73-146.
- Cianciarulo, Anthony N.: See—
- Collings, William G.; Cianciarulo, Anthony N.; and Shen, Kwan-Tin, 3,687,894.
- Cianflone, Joseph A.: See—
- Luisada, August G.; and Cianflone, Joseph A., 3,636,565.

- Ciapetta, Frank G.: See—
- Briggs, Warren S.; and Ciapetta, Frank G., 3,661,806.
- Parthasarathy, R.; and Ciapetta, Frank G., 3,666,804.
- Ciavarri, Peter Anthony: See—
- Burt, Cortland Russell; and Ciavarri, Peter Anthony, 3,647,455.
- Ciavattoni, Anthony; Hammen, William; and Heimur, Karl, to Pennwalt Corporation. Dental evacuation apparatus. 3,665,682, 5-30-72, Cl. 55-337.
- Ciba (A.R.H.) Limited: See—
- Lynam, Peter Henry; and Noakes, Keith, 3,656,992.
- Ciba Corporation: See—
- Anner, Georg; and Wieland, Peter, 3,636,055.
- Anner, Georg; and Meystre, Charles, 3,641,069.
- Anner, Georg; and Ehmann, Ludwig, 3,641,070.
- Anner, Georg; and Kalvoda, Jaroslav, 3,642,826.
- Anner, Georg; and Wieland, Peter, 3,646,064.
- Anner, Georg; Ehmann, Ludwig; and Kalvoda, Jaroslav, 3,652,554.
- Anner, Georg; and Kalvoda, Jaroslav, 3,660,435.
- Bencze, William Laszlo, 3,641,110.
- Bencze, William Laszlo, 3,646,122.
- Bencze, William Laszlo, 3,679,800.
- Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,632,810.
- Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,639,396.
- Bickel, Hans; Fechtig, Bruno; and Kump, Wilhelm, 3,644,337.
- Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Voser, Walter; Mueller, Johannes; and Peter, Heinrich, 3,661,901.
- Blatter, Herbert Morton; and Lucas, Robert Armistead, 3,657,438.
- Blatter, Herbert Morton; and Lucas, Robert Armistead, 3,691,180.
- Carney, Richard William James; and De Stevens, George, 3,641,040.
- Carney, Richard William James, 3,647,802.
- Carney, Richard William James; and deStevens, George, 3,657,230.
- Collings, William G.; Cianciarulo, Anthony N.; and Shen, Kwan-Tin, 3,687,894.
- Dickel, Daniel Frederick; and DeStevens, George, 3,686,211.
- Gaeumann, Ernst; Prelog, Vladimir; Bickel, Hans; and Vischer, Ernst, 3,634,407.
- Geller, Leo; Deguillaume, Robert; and Desaulles, Pierre Antoine, 3,632,743.
- Geller, Leo, 3,639,383.
- Gschwend, Heinz Werner; and Finch, Neville, 3,637,738.
- Huebner, Charles Ferdinand, 3,635,988.
- Huebner, Charles Ferdinand, 3,641,179.
- Jeger, Oskar; and Wehrli, Hans Ueli, 3,651,077.
- Keberle, Heinrich; Faigle, Johann Werner; and Wilhelm, Max, 3,634,428.
- Konopka, Edward Alexander; and Gelzer, Justus Melchior, 3,644,616.
- Lucas, Robert Armistead; and Blatter, Herbert Morton, 3,655,895.
- Lucas, Robert Armistead; and Blatter, Herbert Morton, 3,691,179.
- Maplesden, Douglas Cecil; and Myers, George Scott, Jr., 3,659,020.
- Marxer, Adrian, 3,673,241.
- Mizzoni, Renat Herbert; and De Stevens, George, 3,663,695.
- Moran, Raymond Michael, Jr., 3,634,323.
- Mueller, Guenther, 3,655,870.
- Mull, Robert Paul; and Mizzoni, Renat Herbert, 3,634,432.
- Rosen, Melvin Harris; De Stevens, George; and Blatter, Herbert Morton, 3,634,413.
- Rosen, Melvin Harris; and Blatter, Herbert Morton, 3,644,632.
- Rossi, Alberto; Walter, Armin; Kessler, Werner; and Iselin, Beat, 3,655,884.
- Rossi, Alberto, 3,660,498.
- Schenker, Karl, 3,644,338.
- Schenker, Karl, 3,686,217.
- Schmidt, Paul; Wilhelm, Max; and Eichenberger, Kurt, 3,632,653.
- Schmidt, Paul; Eichenberger, Kurt; and Schweizer, Ernst, 3,636,041.
- Schmidt, Paul; and Egli, Christian, 3,661,906.
- Schweizer, Ernst; Schmidt, Paul; and Eichenberger, Kurt, 3,634,427.
- Shen, Kwan-Ting, 3,658,641.
- Walker, Gordon Northrop, 3,632,572.
- Walker, Gordon Northrop, 3,646,028.
- Walker, Gordon Northrop, 3,652,550.
- Wilhelm, Max, 3,632,602.
- Zachner, Hans; and Keller, Walter, 3,636,198.
- Ciba Geigy AG: See—
- Buckley, Frank Cyril, 3,655,770.
- Ciba Limited: See—
- Altermatt, Hans, 3,639,430.
- Anderau, Walter; Oetiker, Alfred; and Deuschel, Werner, 3,634,386.
- Angliker, Hans-Joerg; and Peter, Richard, 3,632,565.
- Artz, Klaus; Desai, Nalin Binduprasad; and Liechti, Hans Wilhelm, 3,632,569.
- Arya, Vishwa Prakash, 3,639,390.
- Arya, Vishwa Prakash, 3,652,573.
- Bachmann, Fritz, 3,644,633.
- Back, Gerhard, 3,660,427.
- Ball, Alan; Hayes, Barry James; and Matthews, Albert John, 3,641,195.
- Beriger, Ernst, 3,644,600.
- Beriger, Ernst, 3,658,800.
- Biland, Hans Rudolf; and Duennenberger, Max, 3,676,494.
- Brown, Peter Thomas; and Phillips, John Rowland, 3,661,538.
- Bruenger, Heinrich; and Boragine, Carlo, 3,647,466.
- Defago, Raymond; Litzler, Alfred; Hertig, Jean; Angliker, Hans-Joerg; and Liechti, Hans Wilhelm, 3,632,291.
- Deflorin, Alberto; Abel, Heinz Reinach; Berger, Alfred; Casty, Richard; and Toepfl, Rosemarie, 3,647,728.
- Duerr, Dieter; and Siegle, Heinz, 3,657,346.
- Fatzer, Willy; Porret, Daniel; and Maurer, Juerg, 3,651,062.
- Froehlich, Alfred, 3,641,116.
- Garnish, Edward William, 3,634,169.
- Gilgen, Heinz; Koegel, Gerhard; and Harris, Melvin, 3,663,157.
- Groh, Margit; and Oetiker, Alfred, 3,666,478.
- Guye-Vuilleme, Jean-Frederic, 3,636,065.
- Guye-Vuilleme, Jean-Frederic; and Ruettner, Otto, 3,636,006.
- Habermeier, Juergen; Porret, Daniel; and Seiz, Wolfgang, 3,644,365.
- Habermeier, Juergen; Batzer, Hans; Porret, Daniel; and Kunz, Walter, 3,654,191.
- Hari, Stefan; and Ronco, Karl, 3,635,963.
- Heer, Alfred; and Metzger, Karl, 3,641,064.
- Heer, Alfred; and Schaffner, Werner, 3,644,431.
- Heer, Alfred; and Metzger, Karl, 3,651,098.
- Hegar, Gert; Angliker, Hans-Joerg; and Peter, Richard, 3,635,940.
- Hegar, Gert, 3,640,993.
- Hegar, Gert, 3,658,781.
- Hegar, Gert, 3,661,886.
- Hegar, Gert, 3,663,527.
- Hiestand, Armin, 3,644,253.
- Hiestand, Armin, 3,660,303.
- Hoelzle, Gerd; and Ulrich, Paul, 3,632,294.
- Hoelzle, Gerd, 3,637,646.
- Hubele, Adolf, 3,634,557.
- Huber-Emden, Helmut, 3,678,046.
- Jaeger, Horst, 3,658,918.
- Janiak, Stefan; and Rhor, Otto, 3,652,580.
- Janiak, Stefan, 3,673,237.
- Kubba, Ved Parkash; Ramanathan, Visvanathan; and Jenny, Walter, 3,663,529.
- Liechti, Hans Wilhelm, 3,663,531.
- Litzler, Alfred; Ramanathan, Visvanathan; Hegar, Gert; Koller, Eugen Johann; and Milicevic, Branimir, 3,663,161.
- Loeffel, Hansrolf; Lenoir, John; and Piller, Bernhard, 3,634,091.
- Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,655,817.
- Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,674,746.
- Luethi, Christian, 3,637,728.
- Luethi, Christian; Biland, Hans Rudolf; and Duennenberger, Max, 3,639,249.
- Maeder, Erwin; Anliker, Rudolf; Schmid, Karl; and Siegrist, Adolf Emil, 3,650,973.
- Marthaler, Max; and Oetiker, Alfred, 3,650,739.
- Martin, Henry; Beriger, Ernst; and Moser, Kurt, 3,642,989.
- Martin, Henry; Duerr, Dieter; and Hitz, Rudolf, 3,660,484.
- Martin, Henry; and Pissiotas, Georg, 3,661,924.
- Martin, Henry; and Pissiotas, Georg, 3,682,934.
- Matter, Eric, 3,678,042.
- Matter, Erich, 3,641,044.
- Montmollin, Rene de; Hoelzle, Gerd; Angliker, Hans-Joerg; and Peter, Richard, 3,642,764.
- Nachbur, Hermann; and Maeder, Arthur, 3,634,422.
- Nachbur, Hermann; and Maeder, Arthur, 3,639,539.
- Nachbur, Hermann; and Maeder, Arthur, 3,658,952.
- Nachbur, Hermann; Kern, Joerg; and Maeder, Arthur, 3,669,725.
- Nachbur, Hermann; and Maeder, Arthur, 3,671,611.
- Nikles, Erwin; and Pinter, Ladislaus, 3,646,026.
- Nikles, Erwin, 3,655,730.
- Oesterlein, Fritz; and Riat, Henry, 3,642,765.
- Peter, Richard; and Gallacchi, Enrico, 3,637,708.
- Peter, Richard; Angliker, Hans-Joerg; and Della Casa, Angelo, 3,663,577.
- Piller, Bernhard, 3,655,388.
- Porret, Daniel; Habermeier, Juergen; Seiz, Wolfgang; and Fatze, Willy, 3,635,844.

Porret, Daniel; Habermeyer, Juergen; and Seiz, Wolfgang, 3,635,845.
 Porret, Daniel; Habermeyer, Juergen; and Batzer, Hans, 3,640,910.
 Ramanathan, Visvanathan, 3,650,665.
 Ramanathan, Visvanathan, 3,657,213.
 Ramanathan, Visvanathan, 3,663,528.
 Robinson, Brian; and Fillingham, Stephen Harvey, 3,677,693.
 Rohr, Otto; and von Orelli, Marcus, 3,647,888.
 Rohr, Otto; Deber, Ludwig; Dittich, Volker; and Siegle, Heinz, 3,652,770.
 Ronco, Karl; and Mueller, Willy, 3,658,785.
 Roueche, Armand, 3,652,533.
 Roueche, Armand, 3,660,373.
 Ruf, Peter; and Forster, Ewald, 3,634,322.
 Schellenbaum, Max; and Duennenberger, Max, 3,646,199.
 Schibler, Luzius, 3,645,973.
 Schmid, Rolf; Bucher, Ingrid; Fisch, Willy; and Batzer, Hans, 3,641,194.
 Schmid, Rolf; Lohse, Friedrich; Fisch, Willy; and Batzer, Hans, 3,642,674.
 Schmid, Rolf; Lohse, Friedrich; Fisch, Willy; and Batzer, Hans, 3,642,938.
 Seitz, Karl; Klahre, Guenter; and Riat, Henri, 3,655,662.
 Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo, 3,642,783.
 Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo, 3,644,345.
 Toepel, Rosemarie; Abel, Heinz; Maeder, Arthur; and Leifels, Klaus-Dieter, 3,673,558.
 Toepfl, Rosemarie; Abel, Heinz; Maeder, Arthur; and Deflorin, Alberto, 3,649,575.
 Toepfl, Werner, 3,635,997.
 Ulrich, Paul, 3,642,795.
 Wahli, Robert, 3,663,801.
 Zbinden, Hans Rudolf; and Hiestand, Armin, 3,668,228.
 Zwahlen, Guenther; Reich, Ernst; and Riegler, Albert, 3,642,686.
 Ciba-Geigy AG: See—
 Preininger, Erich; and Ging, Dieter, 3,669,896.
 Ciba-Geigy AG: See—
 Abel, Heinz; and Harris, Melvin, 3,687,603.
 Ackermann, Hans; Seiler, Herbert; and Meindl, Hubert, 3,660,393.
 Ackermann, Hans; and Beffa, Fabio, 3,697,500.
 Aktermatt, Hans, 3,700,700.
 Artz, Klaus; Desai, Nalin Binduprasad; and Liechti, Hans Wilhelm, 3,671,177.
 Artz, Klaus, 3,686,162.
 Artz, Klaus; Ramanathan, Visvanathan; and Moser, Peter, 3,707,532.
 Asche, Henning, 3,691,272.
 Back, Gerhard; Abel, Heinz; Buehler, Arthur; and Litzler, Alfred, 3,692,462.
 Back, Gerhard; Abel, Heinz; Buehler, Arthur; and Litzler, Alfred, 3,692,463.
 Batzer, Hans; Nikles, Erwin; Ernst, Otto; and Porret, Daniel, 3,682,969.
 Berger, Alfred; Abel, Heinz; and Deflorin, Alberto, 3,681,128.
 Binder, Erich, 3,667,697.
 Bindler, Jakob, 3,652,201.
 Bischof, Josef; Litzler, Alfred; Hertig, Jean; and Milicevic, Branimir, 3,684,431.
 Bosshard, Hans Heinrich; Leifels, Klaus-Dieter; and Seyberlich, Bernd, 3,682,682.
 Brown, Thomas D.; Rushforth, Michael; Dobinson, Bryan; Wilson, Walter; and Winterbottom, Kenneth, 3,645,781.
 Bruengger, Heinrich; and Boragine, Carlo, 3,635,716.
 Buehler, Arthur; and Steinlin, Felix, 3,706,698.
 Datye, Keshav V.; Milicevic, Branimir; and Werdenberg, Hermann, 3,666,397.
 Desai, Nalin Binduprasad; Jayaraman, Ponnusami; Ramanathan, Visvanathan; Artz, Klaus; Naik, Navnitrai Nagarji; and Jenny, Walter, 3,679,657.
 Dietzsch, Hans Joachim; and Dietzsch, Otto, 3,697,635.
 Dobinson, Bryan; Hope, Paul; Winterbottom, Kenneth; and Shaw, Trevor, 3,703,352.
 Dobinson, Bryan; and Winterbottom, Kenneth, 3,706,527.
 Dobinson, Bryan; Hope, Paul; and Winterbottom, Kenneth, 3,706,528.
 Dobinson, Bryan; and Stark, Bernard Peter, 3,707,552.
 Duennenberger, Max; and Biland, Hans Rudolf, 3,706,798.
 Ehrat, Kurt, 3,658,224.
 Flensberg, Hermann; and Frey, Felix, 3,706,524.
 Froehlich, Alfred; and Rossi, Carlo, 3,635,718.
 Froehlich, Alfred; Piller, Bernhard; and Stauner, Thomas, 3,671,253.
 Gassmann, Hans Ulrich; and Mugnier, Michel, 3,699,804.
 Grelat, Maurice, 3,703,533.
 Guglielmetti, Leonardo; and Duennenberger, Max, 3,696,193.

Habermeyer, Juergen; Batzer, Hans; and Porret, Daniel, 3,679,681.
 Hamilton, Alexander, 3,655,641.
 Hennart, Claude; Martin, George; Mandon, Jean-Pierre; and Rabussier, Bernard Aranton, 3,705,941.
 Hindermann, Peter; and Meindl, Hubert, 3,673,221.
 Huber-Emden, Helmut; Eschle, Karl; and Maeder, Arthur, 3,679,779.
 Igglesden, Graham Arthur, 3,692,706.
 Inman, Eric Richard; Macpherson, Ian Alexander; and Stirling, John Andrew, 3,700,709.
 Janiak, Stefan; and Rohr, Otto, 3,705,028.
 Kabas, Guglielmo; and Schlappfer, Hans, 3,658,833.
 Kangle, Purushottam Janardan; Ramanathan, Visvanathan; and Argay, Rudolf, 3,676,051.
 Klein, Georg Anton, 3,647,798.
 Kundt, Edmund; Klaiber, Max; Leitz, Wilfried; and Vom Rath, Herbert, 3,696,955.
 Leitz, Wilfried, 3,673,761.
 Liechti, Peter; Maeder, Erwin; Guglielmetti, Leonardo; and Siegrist, Emil, 3,682,900.
 Liechti, Peter, 3,682,946.
 Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,678,009.
 Luethi, Christian; Duennenberger, Max; and Biland, Hans Rudolf, 3,661,606.
 Luethi, Christian; Biland, Hans-Rudolf; and Duennenberger, Max, 3,683,020.
 MacPherson, Ian Alexander; Inman, Eric Richard; Stirling, John Andrew; and Irvine, Alexander McHugh, 3,677,782.
 Maeder, Erwin; and Siegrist, Adolf Emil, 3,679,669.
 Markert, Juergen; Eckert, Peter; and Della Casa, Angelo, 3,707,346.
 Martin, Henry; Rufener, Jacques; and Pissiotas, Georg, 3,658,892.
 Martin, Henry; Acbi, Hans; and Ebner, Ludwig, 3,692,911.
 Martin, Henry; Aebi, Hans Riehen; and Ebner, Ludwig, 3,702,363.
 Martin, Henry; and Drabek, Josef, 3,705,904.
 McKay, Robert Bruce, 3,691,116.
 Meindl, Hubert; Ackermann, Hans; and Von Kaenel, Fred, 3,655,665.
 Miles, Peter, 3,634,472.
 Milicevic, Branimir; and Litzler, Alfred, 3,685,955.
 Mollet, Hans; Hohenegger, Helmut; Keller, Karlheinz; and Keller, Rudolf, 3,637,340.
 Mueller, Willy, 3,684,792.
 Mueller, Willy; Ronco, Karl; and Mory, Rudolf, 3,691,149.
 Nachbar, Hermann; and Maeder, Arthur, 3,679,778.
 Nachbar, Hermann; and Maeder, Arthur, 3,700,403.
 Niklaus, Ulrich; and Baumann, Dieter, 3,691,083.
 Nikles, Erwin, 3,676,441.
 Nikles, Erwin, 3,676,486.
 Nikles, Erwin, 3,678,074.
 Nikles, Erwin, 3,678,075.
 Oesterlein, Fritz; and Seitz, Karl, 3,663,526.
 Peter, Richard; and Angliker, Hans-Joerg, 3,691,148.
 Piller, Bernhard; and Seitz, Karl, 3,701,664.
 Porret, Daniel; and Habermeyer, Juergen, 3,697,539.
 Pugin, Andre, 3,697,526.
 Pugin, Andre; Burdeska, Kurt; and Model, Ernst, 3,701,791.
 Rabussier, Bernard; Mandon, Jean Pierre; and Hennart, Claude, 3,698,974.
 Rembold, Heinz; and Losert, Ewald, 3,676,200.
 Riat, Henri; and Oesterein, Fritz, 3,655,639.
 Rigby, Colin William; and Stark, Bernard Peter, 3,694,417.
 Schaub, Heiner; Thaddey, Kurt; and Celio, Tino, 3,672,768.
 Schellenbaum, Max; Duennenberger, Max; and Casagrande, Fulvio, 3,689,550.
 Schlunke, Hans-Peter; and Ronco, Karl, 3,656,953.
 Schmid, Rolf; Lohse, Friedrich; and Batzer, Hans, 3,678,127.
 Schwander, Hans Rudolf; Zenhausern, Anton; and Hindermann, Peter, 3,649,652.
 Schwenbacher, Georg, 3,694,209.
 Siegrist, Adolf Emil, 3,697,513.
 Somlo, Tibor; and Orban, Ivan, 3,681,403.
 Ulrich, Paul; and Frey, Christoph, 3,655,638.
 Ulrich, Paul, 3,684,808.
 Wahli, Robert, 3,673,417.
 Wegmann, Jacques, 3,690,939.
 Wegmuller, Hans; Kleemann, Alois; and Keller, Rudolf, 3,669,608.
 Wegmuller, Hans E., 3,652,534.
 Wegmuller, Hans E.; Kleemann, Alois; and Keller, Rudolf, 3,690,916.
 Wilhelm, Max, 3,687,936.
 Winter, Roland A. E., 3,697,520.
 Zwahlen, Guenther; Retch, Ernst; and Schoof, Karl Ewald, 3,705,816.
 Ciba-Geigy Chemical Corporation: See—

Dietrich, Henri, 3,694,551.
 Ciba-Geigy Corporation: See—
 Anner, Georg; and Meystre, Charles, 3,636,010.
 Anner, Georg; and Kalvoda, Jaroslav, 3,679,716.
 Anner, Georg, 3,687,942.
 Bader, Jorg; and Gatz, Karl, 3,659,010.
 Bader, Jorg; and Gatz, Karl, 3,676,459.
 Bateman, John H., 3,681,299.
 Bateman, John H., 3,681,301.
 Bickel, Hans; and Kump, Wilhelm, 3,632,492.
 Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,646,023.
 Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Hueller, Johannes; and Peter, Heinrich, 3,682,903.
 Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,686,172.
 Blattner, Hans; and Schindler, Walter, 3,636,046.
 Bohner, Beat; and Gubler, Kurt, 3,689,500.
 Bosshardt, Rene; Gubler, Kurt; Aufderhaar, Ernest; and Brenneisen, Paul, 3,676,450.
 Bosshardt, Rolf; Fechtig, Bruno; Mueller, Johannes; Peter, Heinrich; and Bickel, Hans, 3,706,746.
 Brechbuhler, Hans Ulrich; and Gubler, Kurt, 3,673,236.
 Campana, Eugene E., 3,702,229.
 Cannon, John Allister; and Malone, Jerome Earl, 3,663,652.
 Carney, Richard William James, 3,668,207.
 Carney, Richard William James; and De Stevens, George, 3,692,819.
 Carter, J. Warne; and Neher, Martin Duane, 3,668,766.
 Carter, J. Warne, 3,700,519.
 D'Alenio, Gaetano F., 3,639,348.
 Darko, Laszlo L., 3,639,453.
 Darmory, Franklin P.; and Di Benedetto, Marianne, 3,705,869.
 Darmory, Franklin P.; and Di Benedetto, Marianne, 3,705,870.
 Daugherty, Hiram Gerald; Evers, William J.; and McCracken, Philip G., 3,639,399.
 Dazzi, Joachim, 3,660,388.
 Dellian, Kurt A., 3,690,815.
 Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,651,084.
 Denss, Rolf; Kocsis, Karoly; and Meisels, Alex, 3,658,806.
 Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,665,010.
 Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,665,011.
 Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,689,656.
 Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,697,460.
 Dexter, Martin; Spivack, John D.; and Steinberg, David H., 3,642,868.
 Dexter, Martin; Spivack, John D.; and Steinberg, David H., 3,644,482.
 Dexter, Martin; Steinberg, David H.; and Ham, George E., 3,657,309.
 Dexter, Martin; and Steinberg, David H., 3,657,322.
 Dexter, Martin, 3,660,438.
 Dexter, Martin; Spivack, John Denon; and Steinberg, David Herbert, 3,681,364.
 Dexter, Martin; Spivack, John Denon; and Steinberg, David Herbert, 3,681,431.
 Dexter, Martin; and Knell, Martin, 3,687,892.
 Dexter, Martin; and Knell, Martin, 3,706,740.
 Dietrich, Henri, 3,687,934.
 Dietrich, Henri, 3,687,935.
 Dietrich, Henri, 3,689,649.
 Dietrich, Henri, 3,699,226.
 Doebel, Karl J.; and Gruenfeld, Norbert, 3,646,206.
 Doebel, Karl J.; and Gagneux, Andre R., 3,651,080.
 Doebel, Karl J.; and Gagneux, Andre R., 3,658,991.
 Doebel, Karl J.; and Francis, John E., 3,691,165.
 Druey, Jean; and Schmidt, Paul, 3,682,918.
 Fechtig, Bruno; Vischer, Ernst; Bickel, Hans; Bosshardt, Rolf; and Urech, Jakob, 3,697,515.
 Finch, Neville, 3,657,328.
 Finch, Neville, 3,678,092.
 Flynn, Robert, 3,679,465.
 Foittl, Verena R.; and Traber, Walter, 3,687,939.
 Foittl, Verena R.; and Traber, Walter, 3,687,940.
 Francis, John E., 3,646,205.
 Frick, Wilhelm E.; Harle, Horst; and Wenger, Thomas, 3,705,944.
 Gagneux, Andre; Brandstrom, Arne Eloff; and Carlsson, Stig Ake Ingomar, 3,699,124.
 Gannon, John Allister; and Tracton, Arthur Allen, 3,707,526.
 Gatz, Karl, 3,634,401.
 Girell Di Giovanoel, Gaudenz; and Zweidler, Reinhard, 3,635,959.
 Girell Di Giovanoel, Gaudenz; and Zweidler, Reinhard, 3,635,960.
 Graf, Wilfried; and Schmid, Erich, 3,646,022.
 Gregg, Harry D., Jr.; and Lemaster, Howard V., 3,644,410.
 Gruenfeld, Norbert, 3,676,456.
 Gruenfeld, Norbert; and Pesterfield, Enos C., Jr., 3,678,169.
 Grunwaldt, Edgar, 3,705,942.
 Gschwend, Heinz Werner; and deStevens, George, 3,678,059.
 Gschwend, Heinz Werner, 3,681,382.
 Gubler, Kurt; and Kristiansen, Odd, 3,635,987.
 Gubler, Kurt; Menasse, Raphael; and Gatz, Karl, 3,692,909.
 Gurney, John Albert, 3,644,394.
 Hall, Luther A. R.; Gurney, John A.; and Renfroe, Harris B., 3,697,585.
 Hall, Luther A. R.; Gurney, John A.; and Renfroe, Harris B., 3,697,592.
 Hall, Luther A. R.; Gurney, John A.; and Renfroe, Harris B., 3,697,604.
 Haug, Theobald; and Batzer, Hans, 3,676,455.
 Heusler, Karl; and Fechtig, Bruno, 3,679,676.
 Heusler, Karl; and Woodward, Robert Burns, 3,703,512.
 Heusler, Karl; and Woodward, Robert Burns, 3,705,160.
 Holt, Brian, 3,655,559.
 Howard, Donald Kearey; Thomas, Brian Martin; Popplewell, Alan Francis; and Matossi, Dario, 3,691,033.
 Howarth, Graham Arton; and Hoyle, William, 3,682,953.
 Howarth, Graham Arton; and Hoyle, William, 3,682,956.
 Howarth, Graham Arton; and Hoyle, William, 3,686,408.
 Hoyle, William; and Savage, Michael Philip, 3,686,170.
 Hubele, Adolf; and Rohr, Otto, 3,676,457.
 Huebner, Charles Ferdinand, 3,686,188.
 Huebner, Charles Ferdinand, 3,689,676.
 Huebner, Charles Ferdinand, 3,707,515.
 Hunger, Alfred; and Muller, Guenther, 3,651,205.
 Jansen, Gert; and Clauson-Kaas, Niels, 3,696,125.
 Jeger, Oskar; and Wehrli, Hans Ueli, 3,706,736.
 Kabas, Guglielmo; and Zweidler, Reinhard, 3,660,424.
 Kartschmaroff, Peter; and Moser, Paul, 3,696,135.
 Keenan, John Francis Edmund, 3,671,581.
 Kelmchuk, Peter, 3,691,131.
 Kern, Joerg, 3,674,811.
 Kirchmayr, Audolph; Peterli, Hans Jakob; and Heller, Hansjorg, 3,706,700.
 Kirchmayr, Rudolf; Heller, Hansjorg; and Rody, Jean, 3,642,813.
 Kirchmayr, Rudolf; Heller, Hansjorg; and Rody, Jean, 3,646,054.
 Kirchmayr, Rudolf, 3,657,266.
 Kirchmayr, Rudolf; and Rody, Jean, 3,686,202.
 Kleiner, Eduard, 3,681,358.
 Kleiner, Eduard K., 3,637,809.
 Kleiner, Eduard K., 3,639,538.
 Kleiner, Eduard K., 3,657,314.
 Kleiner, Eduard Karl, 3,636,085.
 Kleiner, Eduard Karl, 3,645,970.
 Kleiner, Eduard Karl, 3,658,843.
 Kleiner, Eduard Karl; Knell, Martin; and Pacini, Pier Luigi, 3,658,857.
 Klemchuk, Peter, 3,644,278.
 Knell, Martin; and Klemchuk, Peter P., 3,671,574.
 Knell, Martin; and Dexter, Martin, 3,679,744.
 Knell, Martin; and Berger, Edward, 3,686,281.
 Knell, Martin; and Dexter, Martin, 3,694,375.
 Knell, Martin; and Steinberg, David H., 3,694,440.
 Knight, Donald V., 3,679,523.
 Komminos, John A., 3,632,300.
 Kray, Raymond J.; and Winter, Roland A. E., 3,642,720.
 Kray, Raymond J.; and Winter, Roland A. E., 3,666,723.
 Kuhn, Hans Herbert; and Rolf, Denss, 3,679,799.
 Marand, Jean, 3,642,035.
 Marand, Jean; and Rousselot, Felix, 3,669,313.
 Marand, Jean, 3,670,965.
 Marand, Jean, 3,672,544.
 Marand, Jean, 3,672,545.
 Marand, Jean, 3,674,212.
 Marand, Jean, 3,704,725.
 Marand, Jean, 3,704,812.
 Meisels, Alex; and Schott, Emilio, 3,699,116.
 Miller, Ralph; and Hoffmann, Jorg H., 3,681,416.
 Mizzoni, Renat Herbert; and Blatter, Herbert Morton, 3,671,512.
 Mizzoni, Renat Herbert; and Blatter, Herbert Morton, 3,674,794.
 Model, Ernest; and Bindler, Jakob, 3,642,872.
 Moran, Raymond Michael, Jr.; and Bleicki, Henry Thomas, 3,639,657.
 Morf, Max; Wenger, Markus; and Feisst, Jutta, 3,679,621.
 O'Connor, David E., 3,642,955.
 Okamura, Seizo; Hayashi, Koichiro; and Nakayama, Yasuharu, 3,642,723.
 Pacini, Pier Luigi; and Kleiner, Eduard Karl, 3,645,985.
 Paltauf, Fritz; Margot, Alfred; and Brenneisen, Paul, 3,697,555.
 Pesterfield, Enos C., 3,689,672.

- Peterli, Hans Jakob; Keller, Ernst; and Schwarzenbach, Kurt, 3,665,031.
- Petersen, John Valdemar Brammer; and Clauson-Kaas, Niels, 3,706,753.
- Petersen, John Valdemar Brammer; and Clauson-Kaas, Niels, 3,706,754.
- Petite, Anthony M.; and Thornley, Clive E., 3,700,405.
- Petree, Harris E., 3,641,025.
- Petree, Harris E., 3,681,337.
- Petree, Harris E., 3,705,156.
- Pickles, Wilfred, 3,677,910.
- Rajappa, Srinivasachari, 3,674,786.
- Ramanathan, Visvanathan; and Liechti, Hans Wilhelm, 3,687,929.
- Rodriguez, Herman Robert; and De Stevens, George, 3,696,093.
- Rodriguez, Herman Robert; and De Stevens, George, 3,706,830.
- Rosen, Melvin Harris; and Blatter, Herbert Morton, 3,639,614.
- Rosen, Melvin Harris; and Blatter, Herbert Morton, 3,692,794.
- Rosen, Melvin Harris; and Blatter, Herbert Morton, 3,706,769.
- Rosenberger, Siegfried; Troxler, Eduard; and Hausermann, Heinrich, 3,639,419.
- Rosenberger, Siegfried; and Hausermann, Heinrich, 3,661,928.
- Rothweiler, Werner B., 3,703,597.
- Rousselot, Felix, 3,696,972.
- Rufenacht, Kurt, 3,681,494.
- Rutz, Hans; and Gubler, Kurt, 3,674,874.
- Sallmann, Alfred; and Pfister, Rudolf, 3,652,762.
- Sallmann, Alfred; and Pfister, Rudolf, 3,691,191.
- Sallmann, Alfred; and Pfister, Rudolf, 3,706,735.
- Saul, George A.; and Eckert, Robert J., Jr., 3,681,335.
- Schellenbaum, Max; and Duennenberger, Max, 3,706,834.
- Schindler, Walter, 3,637,661.
- Schindler, Walter; and Blattner, Hans, 3,641,056.
- Schindler, Walter, 3,642,775.
- Schindler, Walter; and Schmid, Erich, 3,646,037.
- Schindler, Walter; and Schmid, Erich, 3,686,402.
- Schindler, Walter; and Blattner, Hans, 3,707,562.
- Schlapfer, Hans, 3,696,097.
- Schmidt, Paul; Eichenberger, Kurt; and Schweizer, Ernst, 3,658,807.
- Schmidt, Paul; Eichenberger, Kurt; and Schweizer, Ernst, 3,706,738.
- Schroter, Herbert; and Prins, Daniel A., 3,642,808.
- Seltzer, Raymond; and Gordon, David A., 3,700,665.
- Spivack, John D.; and Dexter, Martin, 3,676,531.
- Spivack, John Denon, 3,655,614.
- Steinberg, David H.; and Dexter, Martin, 3,707,542.
- Steinberg, David H.; and Dexter, Martin, 3,707,543.
- Steinberg, David Herbert; Dexter, Martin; and Spivack, John D., 3,657,321.
- Steinberg, David Herbert, 3,673,151.
- Sturm, Elmar; and Vogel, Christian, 3,661,916.
- Suryanarayana, Yelagondahally S.; and Reid, Luther J., Jr., 3,707,544.
- Thornton, Marvin L., 3,636,993.
- Traber, Walter; and Weiss, Anton G., 3,637,790.
- Traber, Walter; and Weiss, Anton G., 3,681,249.
- Traber, Walter; and Weiss, Anton G., 3,689,665.
- Varsanyi, Denis; and Roth, Willy, 3,634,110.
- Wasley, Jan W. F.; and Gruenfeld, Norbert, 3,679,687.
- Wehrli, Hansuli; and Jeger, Oskar, 3,706,737.
- Weis, Claus Dieter; and Rochat, Alain Claude, 3,687,996.
- Weis, Claus Dieter; and Gatzl, Karl, 3,705,195.
- Werner, Lincoln Harvey, 3,657,440.
- Werner, Lincoln Harvey, 3,658,990.
- Werner, Lincoln Harvey, 3,674,796.
- Werner, Lincoln Harvey, 3,706,756.
- Wieland, Peter, 3,696,130.
- Wilhelm, Max, 3,706,765.
- Williams, Richard Nathan, 3,635,655.
- Zergenyi, Janos; and Habicht, Ernst, 3,682,961.
- Zergenyi, Janos; and Habicht, Ernst, 3,681,502.
- Ciba-Limited: See—
Ronco, Karl; and Mueller, Willy, 3,657,219.
- Cibie, Pierre, to Projecteurs Cibie. Hydraulic circuits. 3,677,299, 7-18-72, Cl. 138-26.000.
- Cicatelli, Rodolfo, to Autovox S.p.A. Tape recording device. 3,669,455, 6-13-72, Cl. 274-4.00e.
- Ciccarelli, Angelo. Tooth cleaner. 3,693,638, 9-26-72, Cl. 132-91.000.
- Ciccarelli, Roger N.; and Jacknow, Burton B., to Xerox Corporation. Crystalline polymers for frost. 3,672,883, 6-27-72, Cl. 96-1.100.
- Ciccarelli, Roger N., to Xerox Corporation. Removing undesired potential from the blocking electrode in a photoelectrophoretic imaging system. 3,676,313, 7-11-72, Cl. 204-181.000.
- Ciccarello, Richard. Swingable strike zone baseball device. 3,658,329, 4-25-72, Cl. 273-26.
- Cicci, George B.: See—
Scarnato, Thomas J.; Meyer, Martin H.; and Cicci, George B., 3,645,574.
- Scarnato, Thomas J.; Tufts, Guy O.; Peacock, Peter J.; and Cicci, George B., 3,672,138.
- Scarnato, Thomas J.; Peacock, Peter J.; Cicci, George B.; Krage, Paul W.; and Kowalik, John J., 3,683,602.
- Cicccone, Thomas Q.: See—
Perkins, William E.; and Cicccone, Thomas Q., 3,634,153.
- Cich, Everett Roy, to ESB Incorporated. Button cell battery. 3,655,452, 4-11-72, Cl. 136-111.
- Cichoski, Sylvester A.; Damon, Paul H.; Golembeski, Ronald J.; and Lawler, William P., to United States Steel Corporation. Apparatus for the wiping transfer of bonding agent onto a longitudinal member and an overlapping margin of a tape on the longitudinal member. 3,687,778, 8-29-72, Cl. 156-392.000.
- Cichowski, Robert S., to Phillips Petroleum Company. Oxidative dehydrogenation process and catalyst. 3,660,514, 5-2-72, Cl. 260-680.
- Cicione, Robert J.: See—
Gagliardi, Domenick D.; and Cicione, Robert J., 3,661,632.
- Cicognani, Enrico; and Lyghounis, Evangelo, to Societa Italiana Telecomunicazioni Siemens S.p.A. Key modulated pulse-train generator for telecommunication system. 3,691,471, 9-12-72, Cl. 328-6.00z.
- Ciecierski, Walter V.: See—
Reymond, Welles K.; and Ciecierski, Walter V., 3,668,645.
- Ciecierski, Walter V.; Reymond, Welles K.; and Cronin, Frederick R., to General Datacomm Industries. Synchronous programmable mixed format time division multiplexer. 3,632,882, 1-4-72, Cl. 179-15.
- Ciegler, Alex; and Hou, Ching Tsang, to United States of America, Agriculture. Production of tremortins A, B, and C. 3,666,630, 5-30-72, Cl. 195-81.000.
- Cielaszyk, Edward F., to General Time Corporation. One-piece roller-impulse member for timepiece escapement. 3,678,683, 7-25-72, Cl. 58-122.000.
- Cielo, John R.; and Hoffman, Harry S., Jr., to International Business Machines Corporation. Combined transformer and inductor device. 3,694,726, 9-26-72, Cl. 321-2.000.
- Ciemochowski, Michael F., to Holley Carburetor Company. Turbine engine cycle counter. 3,686,484, 8-22-72, Cl. 235-92.0fg.
- Ciepiela, Frederick S.: See—
Mars, James R.; and Ciepiela, Frederick S., 3,646,399.
- Ciepley, Ted, to Bliss and Laughlin Industries, Incorporated. Concealed-stop slotted-bail for furniture components. 3,681,807, 8-8-72, Cl. 16-126.000.
- Ciepley, Ted, to Bliss and Laughlin Industries, Incorporated. Keeper-pendant combination. 3,681,813, 8-8-72, Cl. 16-126.000.
- Ciepley, Ted, to Bliss & Laughlin Industries, Incorporated. Limited pivotal handle assembly for furniture components. 3,703,683, 11-21-72, Cl. 16-126.000.
- Cier, Harry E.; and Wilder, Hulen L., to Esso Research and Engineering Company. Process for separating mono-chloromethylation and di-chloromethylation product of a C₁₀ or lower aromatic hydrocarbon. 3,652,689, 3-28-72, Cl. 200-651.
- Cier, Harry E., to Esso Research and Engineering Company. Manufacture of aromatic formaldehyde resins. 3,700,640, 10-24-72, Cl. 260-67.00a.
- Ciesielski, Bernard A., to FMC Corporation. Belt penetration sensing apparatus. 3,680,686, 8-1-72, Cl. 192-232.000.
- Ciesla, Stanley F.: See—
Jursich, Myron J.; and Ciesla, Stanley F., 3,640,766.
- Mooth, Robert A.; Ciesla, Stanley F.; and Roberts, Hugh J., 3,644,332.
- Cigala & Bertinetti S.A.S.: See—
Bertinetti, Emilio Alberto; and Lampredi, Aurelio, 3,651,705.
- Lampredi, Aurelio, 3,696,685.
- Cik-Chemische Industrie Kempen GmbH: See—
Lochner, Herbert, 3,705,064.
- Ciko, John D., to BASF Wyandotte Corporation. Nonflouride laundry sour containing fumaric acid. 3,676,353, 7-11-72, Cl. 252-136.000.
- Cilag-Chemie, A.G.: See—
Richter, Carl; Pluss, Kurt; and Feth, Georg, 3,703,537.
- Cilento, Rudolfo; and Cohn, Robert M., to Squibb, E. R., & Sons, Inc. Process for preparing semi-solid emulsions. 3,635,834, 1-18-72, Cl. 252-314.
- Cilia, Paolo. Soap and container therefor. 3,671,438, 6-20-72, Cl. 252-90.000.
- Cillichemie Ernst Vogelmann: See—
Seid, Volker, 3,670,893.
- Cimadevilla, Armand: See—
Romlet, Jean; and Cimadevilla, Armand, 3,680,275.
- Cimbalo, Robert N.; and Broyles, Allen R., to Atlantic Richfield Company. Regeneration of platinum group metal-alpha alumina catalyst. 3,684,740, 8-15-72, Cl. 252-416.000.
- Cimber, Hugo S. Diaphragm. 3,658,057, 4-25-72, Cl. 128-129.
- Cimber, Hugo S. Aspirator needle injector. 3,659,610, 5-2-72, Cl. 128-347.
- Cimber, Hugo S. Device for and method of temporary sterilizing a female. 3,675,639, 7-11-72, Cl. 128-1.000.
- Cimber, Hugo S. Device for occlusion of an oviduct. 3,680,542, 8-1-72, Cl. 128-1.00r.

- Cimbollek, Gerhard: See—
Irmischer, Klaus; Cimbollek, Gerhard; Wahlig, Helmut; Karl-Otto; Nowak, Herbert; and Garbe, Andreas, 3,637,666.
- Irmischer, Klaus; Cimbollek, Gerhard; Kraft, Hans-Gunther; and Harting, Jürgen, 3,681,409.
- Ciments Lafarge S.A.: See—
Sadran, Gerard Henri, 3,645,750.
- Cimino, James J.; and Bodem, David C., to General Motors Corporation. Drive mechanism for windshield wipers. 3,688,333, 9-5-72, Cl. 15-250.160.
- Cimprich, Francis J., to Goodrich, B. F., Company, The. Tire cooling. 3,667,881, 6-6-72, Cl. 425-28.000.
- Cina, Saverio J.: See—
Blurton, Leon C.; and Cina, Saverio J., 3,693,729.
- Cinadr, Bernard F.: See—
Diliddo, Bart A.; and Cinadr, Bernard F., 3,644,311.
- Diliddo, Bart A.; and Cinadr, Bernard F., 3,702,840.
- Cincinnati Butchers' Supply Company, The: See—
Schmidt, Carl Oscar, Jr., 3,657,767.
- Schmidt, Carl Oscar, Jr., 3,703,743.
- Cincinnati Gilbert Machine Tool Company, The: See—
Petri, William Edward, Jr.; and Froese, Richard Joseph, 3,686,979.
- Cincinnati, Incorporated: See—
Erhart, John J., 3,706,248.
- MacDonald, John L., 3,704,396.
- Cincinnati Industries, Inc.: See—
Frick, Roy C.; Calvin, Victor E.; Sharpe, John C.; and Rowe, William Wallace, 3,686,054.
- Cincinnati Milacron Chemicals Inc.: See—
Stapfer, Christian H., 3,652,496.
- Stapfer, Christian H.; and Shah, Ashok C., 3,654,222.
- Stapfer, Christian H.; and Racz, William B., 3,679,619.
- Stapfer, Christian H., 3,701,781.
- Weisfeld, Lewis B., 3,640,950.
- Cincinnati Milacron Inc.: See—
Abt, Ronald C., 3,647,671.
- Abt, Ronald C., 3,668,105.
- Aggarwal, Trilok C.; and Hasz, John R., 3,690,414.
- Berghausen, Philip E.; Dehner, Gareth A.; and Morgan, John M., Jr., 3,650,923.
- Davis, Malcolm F., 3,662,143.
- Davis, Malcolm F., 3,694,599.
- Decker, Jacob, 3,702,082.
- Decker, Jacob, 3,702,716.
- Dehner, Gareth A., 3,652,440.
- Dever, Lewis A., 3,668,971.
- Evans, Wendell I., 3,698,435.
- Fischer, Thomas R., 3,700,993.
- Grove, George L.; Stewart, Irving J.; and Helson, Lloyd W., 3,638,364.
- Harper, Robert C., 3,675,903.
- Hasz, John R., 3,664,228.
- Hohn, Richard E., 3,667,290.
- Joel, Hector, 3,702,663.
- Kauffman, Harry D.; and Davis, Malcolm F., 3,699,303.
- Lenning, Ronald L., 3,699,720.
- Losey, Jerry E., 3,699,301.
- Ma, Carlton Y.; and Dold, Klaus, 3,666,141.
- Mathias, Richard A.; and Watson, Edgar J., 3,681,978.
- Merritt, Herbert E., 3,693,946.
- Olton, Peter F.; and Kauffman, Harry D., 3,650,938.
- Owens, William A., 3,700,292.
- Perry, Charles B.; and Attermeyer, Lawrence A., 3,650,018.
- Renner, Howard W.; and Moores, John A., 3,694,971.
- Richter, Robert C.; and Srinath, Shimoga K., 3,643,546.
- Vearil, Wayne L.; and Dever, Lewis A., 3,646,664.
- Cincinnati Milacron-Heald Corporation: See—
Straub, Bruno E.; and Grotewold, William H., 3,685,395.
- Uhtenwoldt, Herbert R.; Hohler, Frederick A.; and Wlodyka, Edmund E., 3,688,444.
- Uhtenwoldt, Herbert R., 3,703,054.
- Cincinnati Milling Machine Co., The: See—
Dunn, Donald, 3,674,720.
- Harper, Robert C., 3,666,848.
- Wessels, Robert F.; and Kelly, Ralph, 3,634,243.
- Cincinnati Mine Machinery Co., The: See—
Krekeler, Claude B., 3,648,960.
- Krekeler, Claude B., 3,679,265.
- Krekeler, Claude B., 3,690,728.
- Krekeler, Claude B., 3,695,726.
- Krekeler, Claude B., 3,697,137.
- Cincinnati Time Recorder Company, Inc., The: See—
Schinner, Thomas J., 3,638,229.
- Cincinnati-Milacron Chemicals, Inc.: See—
Hechenbleikner, Ingenuin; Kugele, Thomas G.; and Hussar, John F., 3,661,843.
- Stapfer, Christian H., 3,661,844.
- Cindrich, Ivan, to United States of America, Army. Recorder-correlator using scanning recorder devices. 3,646,335, 2-29-72, Cl. 235-181.
- Cinelli, Ermanno: See—
Cesca, Sebastiano; Roggero, Arnaldo; Priola, Aldo; and Cinelli, Ermanno, 3,646,105.
- Cesca, Sebastiano; Roggero, Arnaldo; and Cinelli, Ermanno, 3,657,204.
- Cines, Martin R., to Phillips Petroleum Company. Stomp foot having porous face. 3,692,890, 9-19-72, Cl. 264-98.000.
- Cines, Martin R., to Phillips Petroleum Company. Recovery of diluent in arylene sulfide polymer production. 3,697,487, 10-10-72, Cl. 260-79.100.
- Cini, Adrian V.: See—
Bauman, Joseph F.; Kurtz, Edward, Jr.; Cini, Adrian V.; and Antrobus, Robert E., 3,640,312.
- Cinnamon, Jerome Marshall; and Westman, Morton A., to Shulton Inc. N-Aminoalkyl derivatives of 2-nitro-p-phenylenediamine. 3,646,216, 2-29-72, Cl. 260-573.
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- Cinquegrani, Vincent J. Fuel control system using RF circuits. 3,699,931, 10-24-72, Cl. 123-32.0ea.
- Cinran Plastics Limited: See—
Crawford, Richard M.; and Parsons, Gerard A., 3,684,225.
- Cintract, Bernard G.; and Sevin, Rene G., to Compagnie Francaise des Petroles. Rod stacking and handling apparatus. 3,682,259, 8-8-72, Cl. 175-85.000.
- Cintract, Bernard G.; and Sevin, Rene G., to Compagnie Francaise des Petroles. Tipping girder for the transfer of rods or tubular elements. 3,702,640, 11-14-72, Cl. 175-85.000.
- Cintz, Adam. Enclosure for imprinter subject to weather elements. 3,645,594, 2-29-72, Cl. 312-100.
- Cioccio, Armand; and Goo, Gee-In, to United States of America, Navy. Coil configuration for an electromagnetic warhead influence firing system. 3,699,889, 10-24-72, Cl. 102-18.000.
- Ciochetto, Joseph James: See—
Greenberger, Joseph Irwin; and Ciochetto, Joseph James, 3,698,469.
- Cioli, Henry J., to General Motors Corporation. Air conditioning pump shutoff. 3,702,064, 11-7-72, Cl. 62-158.000.
- Cioppa, Forrest J. Training and instruction device for performing cricothyroidotomy. 3,704,529, 12-5-72, Cl. 35-17.000.
- Cipher Data Products, Inc.: See—
Spencer, Dale A.; and Barton, William M., Jr., 3,707,707.
- Cira, James W. Air conditioning system for a crane cab. 3,682,240, 8-8-72, Cl. 165-42.000.
- Cirami, Salvatore. Walking robot amusement ride. 3,680,487, 8-1-72, Cl. 104-53.000.
- Circle Engineering Co., Inc.: See—
Solomon, Milton, 3,640,584.
- Circle F Industries, Inc.: See—
Anthony, Walter H., 3,646,297.
- Genovese, John M.; and Walterick, Kenneth H., 3,681,593.
- Circle Machine Co., Inc.: See—
Johnson, James; and Ordway, Richard S., 3,638,261.
- Circle, Robert Ray, to Westinghouse Electric Corporation. Synchronous circuit interrupter. 3,646,295, 2-29-72, Cl. 200-148.
- Circle, Robert Ray, to Westinghouse Electric Corporation. Synchronously-operating circuit breaker with improved circuit breaker operating mechanism. 3,655,931, 4-11-72, Cl. 200-148.
- Circuit Equipment Corporation: See—
Call, Sterling, 3,691,582.
- Circuit Foil Corporation: See—
Yates, Charles B., 3,674,656.
- Circuit-Stik, Inc.: See—
Levesque, Norman R.; and Harper, Donald E., 3,703,603.
- Ciriack, Gunther: See—
Eckert, Georg; and Ciriack, Gunther, 3,697,321.
- Ciric, Julius, to Mobil Oil Corporation. Crystalline zeolite ZSM-10. 3,692,470, 9-19-72, Cl. 23-113.000.
- Cirillo, James. Cartridge holder. 3,702,671, 11-14-72, Cl. 224-20.000.
- Cirillo, John; and Durstewitz, Gerald, to Kidde, Walter, & Company, Inc. Frictionless inertia responsive gas dispensing. 3,637,110, 1-25-72, Cl. 222-3.
- Cirillo, John, to Kidde, Walter, & Company, Inc. Explosively operated gas supplying apparatus. 3,651,988, 3-28-72, Cl. 222-3.
- Cirillo, John, to Kidde, Walter, & Company, Inc. Incision irrigator for use during surgical procedures. 3,674,024, 7-4-72, Cl. 128-234.000.
- Cirkitrite Limited: See—
Furness, Ralph William, 3,668,003.
- Cirrincone, Gilbert: See—
Nelson, Arvid L.; and Cirrincone, Gilbert, 3,653,191.
- Cirulis, Uldis: See—
Zacharias, Ellis M., Jr.; and Cirulis, Uldis, 3,697,936.
- Cisler, Earl J.; and Gelbuda, William A., to American Hospital Supply Corporation. Drafting table construction. 3,638,584, 2-1-72, Cl. 108-6.
- Cisney, Merle E., to Crown Zellerbach Corporation. Hydroxymethyl, methylthio phenols. 3,699,172, 10-17-72, Cl. 260-609.00f.
- Cissell, W. M. Manufacturing Company, The: See—

Blevens, Bertram G.; and Richterkessing, Frank H., 3,637,128.
 Richterkessing, Frank H., 3,655,131.
 C.I.T.-Compagnie Industrielle des Telecommunications: See—
 Arnoux, Michel, 3,657,484.
 Babany, Lucien; and Poussin, Antoine, 3,636,467.
 Boyer, Marcel Louis, 3,634,766.
 Boyer, Marcel Louis, 3,639,852.
 Boyer, Marcel-Louis, 3,634,733.
 Jacob, Jean-Baptiste, 3,674,938.
 Jacob, Jean-Baptiste; and Lavanant, Pierre, 3,683,162.
 Jacob, Jean-Baptiste, 3,705,958.
 Leonard, Didier, 3,692,952.
 Levasseur, Georges, 3,652,939.
 Rousseau, Claude, 3,668,314.
 Rousseau, Claude, 3,686,438.
 Selz, Jacques, 3,636,477.
 Tallegas, Francois, 3,644,679.
 Tallegas, Francois, 3,676,855.
 Teurnier, Roger, 3,643,026.
 Teurnier, Roger; and Rousseau, Claude, 3,644,672.
 Teurnier, Roger, 3,647,966.
 Teurnier, Roger, 3,693,167.
 Cities Service Company: See—
 Barker, James, 3,635,668.
 Barker, James E., 3,661,513.
 Callan, John E., 3,674,735.
 Callan, John E., 3,704,196.
 Callan, John E., 3,704,274.
 Camp, Ernest C., Jr.; and Clausen, Herbert J., 3,661,551.
 Clausen, Herbert J., 3,687,618.
 De Cuir, George L., 3,645,684.
 De Witt, George A., 3,707,356.
 Driscoll, Richard E., 3,636,188.
 Driscoll, Richard E., 3,660,025.
 Driscoll, Richard E., 3,661,519.
 Driscoll, Richard E.; and DeCuir, George L., 3,674,431.
 Eckert, Frank J.; and Meldrum, David R., 3,706,585.
 Foster-Pegg, Richard Wigmore, 3,663,172.
 Green, Joseph; Roth, Shirley H.; and Seipel, John J., 3,703,487.
 Heller, George L.; Eckert, Frank J.; De Land, Charles L.; and Dingman, Robert W., 3,642,446.
 Hodges, Richard L., 3,658,289.
 Judd, Leonard R., 3,689,249.
 Levine, Ralph, 3,669,999.
 Levine, Ralph, 3,703,558.
 Markey, Joseph W., 3,702,885.
 Meldrum, David R., 3,700,475.
 Meldrum, David R., 3,700,476.
 Meldrum, David R.; and Eckert, Frank J., 3,706,586.
 Olechowski, Jerome Robert; and Levine, Ralph, 3,652,688.
 Roth, Shirley H., 3,703,409.
 Roth, Shirley H., 3,703,410.
 Rushton, George L., 3,655,828.
 Rushton, George L., 3,662,026.
 Scott, Charles E., 3,645,935.
 Scott, Charles E., 3,700,615.
 Topcik, Barry, 3,639,308.
 Topcik, Barry, 3,646,183.
 Wadsworth, Francis T.; Newcombe, Jack; and Welch, Floyd T., 3,652,640.
 Wyatt, Glenn O., 3,674,433.
 Cities Service Oil Company: See—
 Badin, Elmer J., 3,639,109.
 Bandyopadhyay, Pratip, 3,672,450.
 Bandyopadhyay, Pratip, 3,674,092.
 Biederman, Edwin W., Jr., 3,633,675.
 Biederman, Edwin W., Jr., 3,669,701.
 Biles, Jerry W., 3,656,551.
 Biles, Jerry W., 3,658,131.
 Dareing, Donald W., 3,693,365.
 Drake, Harry N., Jr.; Fabbro, Leo A.; and Fanucci, Ronald E., 3,635,677.
 El-Mogazi, Mohamed M.; and Rai, Charanjit, 3,704,330.
 Fallgatter, Wayne S., 3,702,235.
 Filachek, Lawrence A.; and Rakow, Marvin S., 3,674,450.
 Frick, George W., 3,660,272.
 Fulford, Richard S., 3,703,928.
 Grady, Guido O., 3,692,110.
 Harry, Robert Y., 3,703,927.
 Hearn, Charles L.; and Relph, James L., 3,687,198.
 Herbert, Hugh P.; and Pelofsky, Arnold H., 3,706,648.
 Iannacone, Rudolph L.; and Revukas, Anthony J., 3,645,696.
 Jamieson, Ernest J., 3,655,351.
 Land, Karl M., 3,690,378.
 Milsom, Daniel, 3,654,136.
 Milsom, Daniel, 3,707,498.
 Moore, Ted R., 3,674,089.
 Rakow, Marvin S.; and Konig, Robert J., 3,640,692.
 Rakow, Marvin S.; and Lockwood, William H., Jr., 3,655,807.
 Rakow, Marvin S.; and Lockwood, William H., Jr., 3,689,590.
 Rakow, Marvin S.; and Konig, Robert J., 3,701,641.

Remick, Karl F., 3,687,428.
 Robinson, John C.; and Horn, Myron K., 3,691,384.
 Scott, J. O.; and Hern, Charles L., 3,661,208.
 Scott, J. O., 3,699,685.
 Swanson, John W.; Hartman, David A.; Beers, Russel L.; and Jamieson, Ernest J., 3,647,694.
 Vairogs, Juris, 3,648,713.
 Waring, Roy L., 3,663,726.
 Cities Service Research and Development Company: See—
 Gregoli, Armand A.; and Mounce, William R., 3,698,876.
 Mounce, William R., 3,645,887.
 Stewart, Norman C., 3,635,943.
 Citizen Watch Co., Ltd.: See—
 Barozzi, Gian Piero; and Horeschi, Giancarlo, 3,703,986.
 Haruta, Hiroshi; and Ueno, Katsumi, 3,688,612.
 Hatsuse, Toshikazu; Ueda, Hiromi; Ozawa, Shouiti; and Yasuda, Yuh, 3,699,412.
 Iizuka, Yoshihiro, 3,636,596.
 Inoki, Kazuyoshi; and Nakayama, Yasuaki, 3,653,199.
 Kanazawa, Kozaburo; Kawakami, Eiji; and Kamiyama, Yasuo, 3,652,814.
 Kanazawa, Kozaburo; and Kawakami, Eiji, 3,681,915.
 Kato, Yoshiaki; and Ohuye, Hideki, 3,697,789.
 Kitazima, Seizo; and Yasuda, Tetuya, 3,633,356.
 Komiyama, Katsuhiko; and Iinuma, Yoshio, 3,667,212.
 Komiyama, Katsuhiko, 3,683,614.
 Miyake, Kenji, 3,638,855.
 Miyasaka, Kenji, 3,659,412.
 Mochizuki, Yoshifumi; and Tsuzuki, Akira, 3,645,090.
 Nihira, Shohachi; Okawara, Yasuo; Naito, Takehisa; and Mori, Mikio, 3,690,249.
 Nikaido, Akira; Onda, Mitsuo; Nakajima, Fumio; Machida, Takayasu; and Sudo, Shunji, 3,668,488.
 Nishikubo, Yasuhiko; and Kojima, Tsutomu, 3,657,667.
 Oh-Oka, Mitsuo, 3,660,048.
 Takamune, Hirotoki, 3,654,757.
 Takamune, Hirotoki; and Mochizuki, Yoshifumi, 3,670,492.
 Tanaka, Kazuo; Kanayama, Toshihiko; Yasuda, Tetuya; Tutiya, Hidetaka; Kikuchi, Yoshio; and Muto, Takeo, 3,659,413.
 Tsuzuki, Akira; and Suzuki, Choken, 3,673,789.
 Yasuda, Tetuya; Tutiya, Hidetaka; and Mori, Takeshi, 3,672,150.
 Citizens and Southern National Bank, The: See—
 Green, William E., Jr., 3,678,650.
 Wachenheim, Howard W., 3,682,461.
 Citrex, S.A.: See—
 Smeets, Alfred, 3,686,126.
 Citrin, Jay E.: See—
 Carey, James; and Citrin, Jay E., 3,668,512.
 Citrin, Paul Stuart; and Gurski, Frank Joseph, Jr., to Sieburg Industries Incorporated. Method and apparatus for cleaning capillary sized holes in articles. 3,687,731, 8-29-72, Cl. 134-22.00r.
 Citroen, Armand, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Automobile vehicle. 3,640,545, 2-8-72, Cl. 280-124.
 Citroen S.A.: See—
 Cadiou, Jean G., 3,639,943.
 Citroen S.A. (Automobiles Citroen, Berliet, Panhard): See—
 Grosseau, Albert, 3,674,285.
 Citron, Joel P.: See—
 Citron, Joel P., 3,694,084.
 Citron, Joel P., 25% to Citron, Joel P. Stroboscopic speed display means for moving vehicles. 3,694,084, 9-26-72, Cl. 356-25.000.
 City of Fort Collins: See—
 Kost, Robert A., 3,672,103.
 City of Sioux City: See—
 Bell, Charles Gilbert, 3,659,362.
 City Tank Corporation: See—
 Dennis, James, 3,636,656.
 City Welding & Manufacturing Co., Inc.: See—
 Marinelli, Joseph A., 3,705,732.
 Ciuffini, Anthony J., to Xerox Corporation. Multi-layered halogen-doped selenium photoconductive element. 3,635,705, 1-18-72, Cl. 96-1.5.
 Ciuffini, Anthony J., to Xerox Corporation. Method of forming permanent electrostatic image with two-layered photoreceptor. 3,684,500, 8-15-72, Cl. 96-1.00r.
 Ciufu, Virgil: See—
 Borcoman, Mircea; and Ciufu, Virgil, 3,687,144.
 Ciulacu, Paraschiv: See—
 Gurgui, Constantin; Luca, Vasile; Eckardt, Andrei; and Ciulacu, Paraschiv, 3,705,830.
 Ciungan, Virgil. Deflection bar unit for snowmobiles. 3,656,779, 4-18-72, Cl. 280-150.
 Ciuti, Brunello; and Del Ross, Sergio, to Snam Progetti S.p.A. Compositions useful for eliminating water surface pollution caused by organic substances. 3,676,357, 7-11-72, Cl. 252-259.500.
 Civalier, Gerald T.: See—
 Cole, Jon F., 3,652,085.
 Civalier, Michel: See—
 Cole, Jon F., 3,652,085.

Civalier, William T.: See—
 Cole, Jon F., 3,652,085.
 Civardi, Frank Peter, to Inmont Corporation. Leatherlike material. 3,637,415, 1-25-72, Cl. 117-62.
 Civjan, Simon: See—
 Huget, Eugene F.; Brauer, Gerhard M.; Kumpula, John W.; and Civjan, Simon, 3,675,327.
 Cizek, Albert W., Jr.; Lerner, Irving; and Simeon, Raymond, to United States of America, Navy. Aircraft carrier deck coating NASL-C-1230. 3,652,485, 3-28-72, Cl. 260-31.2.
 Cizek, Arthur: See—
 Rice, Herbert L.; Cizek, Arthur; and Thaeamar, Marvin O., 3,665,035.
 CK Optical Co., Inc.: See—
 Larraburu, Philip Michel, 3,644,037.
 CKD Praha oborovy podnik: See—
 Badal, Jiri, 3,681,677.
 Kadera, Václav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemec, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, 3,647,312.
 Cla-Val Co.: See—
 Ensign, Harold W., 3,643,707.
 Ensign, Harold W., 3,680,606.
 Claas, August, to Raussendorf & Co. G.m.b.H. Maschinenfabrik. Rotary plow. 3,695,361, 10-3-72, Cl. 172-67.000.
 Claassen, Peter J. M. W.: See—
 Roest, Bernard C.; Van Der Loos, Jozef L. M.; and Claassen, Peter J. M. W., 3,642,719.
 Claassen, Peter J. M. W.: See—
 Van Der Loos, Jozef L. M.; and Claassen, Peter J. M. W., 3,704,280.
 Clachan, Margaret Loudon: See—
 Shepherd, Robert Basil; Clachan, Margaret Loudon; Kennedy, David Rankine; and Abbott, Terence Arnold, 3,674,531.
 Clack, Peter Joseph; Wiswell, James David; and Clemens, Anton Hubert, to Miles Laboratories, Inc. Apparatus to produce data count signals. 3,697,730, 10-10-72, Cl. 235-92.0mt.
 Clad, Werner Helmut: See—
 Sander, Bruno; Sperber, Heinrich; Pommer, Ernst-Heinrich; Clad, Werner Helmut; and Wittmann, Otto, 3,651,006.
 Claes, Frans Henri: See—
 Philippaerts, Herman Adelbert; Pollet, Robert Joseph; Willems, Jozef Frans; and Claes, Frans Henri, 3,661,592.
 Pollet, Robert Joseph; Philippaerts, Herman Adelbert; Willems, Jozef Frans; and Claes, Frans Henri, 3,704,130.
 Claes, Paul: See—
 De Somer, Pierre; and Claes, Paul, 3,679,795.
 Claessens, Frans D.; and Hein, Theodore F., to N.V. Koninklijke Sphinx-Ceramique v/h Pegout. System for bringing into different positions a container containing an article and moving continuously along a given track, or parts of said container with respect to said article and one another, and for removing said article from the advancing container, more particularly for use in the manufacture of moulded ceramic articles. 3,647,345, 3-7-72, Cl. 425-439.
 Claesson, Per Harry Elias: See—
 Jarnbrink, Karl Evert; Claesson, Per Harry Elias; and Zander, Rolf Albin, 3,636,483.
 Jarnbrink, Karl Evert; Zander, Rolf Albin; and Claesson, Per Harry Elias, 3,636,487.
 Zander, Rolf Albin; Claesson, Per Harry Elias; and Vigren, Sten Daniel, 3,649,938.
 Claeys, Daniel Alois: See—
 Van Besauw, Jan Frans; and Claeys, Daniel Alois, 3,645,911.
 Vrancken, Marcel Nicolas; and Claeys, Daniel Alois, 3,642,475.
 Vrancken, Marcel Nicolas; and Claeys, Daniel Alois, 3,649,271.
 Vrancken, Marcel Nicolas; Meeussen, Louis Achilles; and Claeys, Daniel Alois, 3,661,579.
 Vrancken, Marcel Nicolas; and Claeys, Daniel Alois, 3,679,410.
 Claeys, Daniel Alois, to Gevaert-Agfa N.V. Protection of information in recording material. 3,690,983, 9-12-72, Cl. 156-230.000.
 Claeys, Ronald, to Wheelabrator-Frye Inc. Method for deflashing ceramic materials. 3,696,565, 10-10-72, Cl. 51-320.000.
 Claflin, Hyle K.; and Belke, Jack T., to Westran Corporation. Hinged fold-up landing support. 3,658,359, 4-25-72, Cl. 280-150.5.
 Clague, John Henry, to Mannin Engineering Limited. Pipe couplings. 3,695,640, 10-3-72, Cl. 285-116.000.
 Claiborne, Lewis T., to Texas Instruments, Incorporated. Apparatus for converting bulk waves to Rayleigh waves at microwave frequencies. 3,654,500, 4-4-72, Cl. 310-8.3.
 Clair, Gilbert D., to Val-Jac Manufacturing and Supply Company. Automatic sequential operated valve. 3,680,583, 8-1-72, Cl. 137-106.000.
 Clair Mfg., Co., Inc.: See—
 Weatherell, James W., 3,665,647.
 Clairmonte Bros., Limited: See—
 Clairmonte, Edward Hugh, 3,640,292.
 Clairmonte, Edward Hugh, to Clairmonte Bros., Limited. Automatic pay out device. 3,640,292, 2-8-72, Cl. 133-5.
 Clairol Incorporated: See—
 Bil, Milos S., 3,632,582.
 Bil, Milos S.; and Brunner, Walter H., 3,642,423.
 Halasz, Alexander; Bil, Milos S.; and Brunner, Walter H., 3,634,478.
 Clairtone Sound Corporation: See—
 Theodoulou, Sotos M., 3,660,598.
 Clairtone Sound Corporation Limited: See—
 Wigley, Patrick A., 3,637,932.
 Clampitt, Bert H.: See—
 Ansporn, Harry D.; Clampitt, Bert H.; and Gilbert, Ronald E., 3,674,761.
 Ansporn, Harry D.; Clampitt, Bert H.; and Gilbert, Ronald E., 3,681,313.
 Clanan, Wayne N. Invalid lift-transfer chair. 3,654,643, 4-11-72, Cl. 5-81.
 Clancey, Stephen M., to Eaton Corporation. Differential clutch mechanism. 3,648,545, 3-14-72, Cl. 74-710.5.
 Clancy, David, to Colgate-Palmolive Company. Packaging apparatus. 3,661,242, 5-9-72, Cl. 198-34.
 Clancy, David, to Colgate-Palmolive Company. Packaging apparatus. 3,678,649, 7-25-72, Cl. 53-124.00d.
 Clancy, John J.: See—
 Brennenman, Richard S.; Clancy, John J.; Macleish, William T.; and Wells, Robert C., 3,637,431.
 Clancy, William E.: See—
 Shaler, Amos J.; and Clancy, William E., 3,659,715.
 Clapham, Thomas Miller, to Calgon Corporation. Filter and process of making same. 3,645,072, 2-29-72, Cl. 55-387.
 Clapp, George R.: See—
 Seymour, Glenn C., 3,653,527.
 Clapper, Thomas W.: See—
 Goens, Duane N.; and Clapper, Thomas W., 3,676,315.
 Clapper, Thomas W.; and Prieto, Martin A., to American Potash & Chemical Corporation. Method of preparing electrolytic manganese dioxide. 3,654,102, 4-4-72, Cl. 204-83.
 Claps, William A., to Coulter Electronics Inc. Electronic particle study apparatus with fluid circulating system. 3,688,191, 8-29-72, Cl. 324-71.0cp.
 Clapsaddle, George Sherl, Jr. Side flail mower. 3,646,733, 3-7-72, Cl. 56-7.
 Clapson, Brian Edward, to Imperial Chemical Industries Limited. Composite breaker belt for radial ply tire. 3,637,003, 1-25-72, Cl. 152-361.
 Clar, Milton, to Auto Pak Company. Apparatus for compacting material into drums or bags. 3,687,063, 8-29-72, Cl. 100-98.000.
 Clardy, Edwin K.; and Ragains, Wilbur G., to Phillips Petroleum Company. Gas purification apparatus. 3,653,844, 4-4-72, Cl. 23-288.
 Clare, C. P., & Company: See—
 Koda, Arthur J.; and Riedel, Charles E., 3,688,135.
 Rohde, Terry L., 3,660,064.
 Clare, C. P., & Company, mesne: See—
 Hjermstad, Hans U.; and Kopp, Carl J., 3,672,233.
 Clare, John Dickens; and Marsh, Stanley Bruce, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation Supply in Her Britannic Majesty's Government of the. Continuous wave radar systems. 3,670,327, 6-13-72, Cl. 343-8.000.
 Clare, Leslie Paul: See—
 Smith, James S.; Clare, Leslie Paul; and Kubicki, Robert M., 3,690,876.
 Claremont Polychemical Corporation: See—
 Bradshaw, Carleton R.; Felsner, Hal-Curtis; and Hanau, Walter J., 3,632,390.
 Claret, Rene, to Societe d'Applications Generales d'Electricite et de Mecanique Sagem. Apparatus for measuring the attitude of a borehole. 3,657,637, 4-18-72, Cl. 324-8.
 Claridge, George Henry. Water flow silencing means. 3,704,857, 12-5-72, Cl. 251-118.000.
 Clarin Corporation: See—
 Chapman, Howard D.; and Panico, Vincent A., 3,638,982.
 Chapman, Howard D., 3,703,312.
 Clark, Adrian Percy, to Plessey Telecommunications Research Limited. Code division multiplex system. 3,688,048, 8-29-72, Cl. 179-15.0bw.
 Clark, Albert A.: See—
 Cushman, Paul G.; and Clark, Albert A., 3,700,986.
 Clark, Albert M.: See—
 Johnston, Norris; and Latker, Mark, 3,667,601.
 Clark, Alfred Charles. Preparation of artwork masters. 3,668,762, 6-13-72, Cl. 29-203.00b.
 Clark, Alfred J., to Motorola, Inc. AM-FM tuner having five push-buttons with ten selections. 3,646,821, 3-7-72, Cl. 74-10.33.
 Clark, Alfred J., to Motorola, Inc. Cartridge locking and ejector mechanism. 3,684,299, 8-15-72, Cl. 274-4.00b.
 Clark, Alfred J., to Motorola, Inc. Cartridge eject and tape head indexing actuator mechanism. 3,684,300, 8-15-72, Cl. 274-4.00a.
 Clark, Alonzo R.; and Bloom, Robert W. Controlling and recording apparatus for a liquid dispenser. 3,657,523, 4-18-72, Cl. 235-94.
 Clark, Alvena F., to Catapult Toy Co., Ltd. Toy catapult. 3,638,633, 2-1-72, Cl. 124-4.

- Clark, Arthur C.; and Timmons, Ted, to Holiday Vehicle Specialties, Inc. Automobile camper mounting. 3,695,676, 10-3-72, Cl. 296-23.0mc.
- Clark, Arthur R.; and Clark, Margaret M. Method of treating plants. 3,676,102, 7-11-72, Cl. 71-127.000.
- Clark, Athol Ben. Revolver firing mechanism with the trigger extending above and straddling the barrel. 3,651,593, 3-28-72, Cl. 42-65.
- Clark, Burton P.; and Scanlon, James D., to General Electric Company. Bolt locking system. 3,690,215, 9-12-72, Cl. 89-12.000.
- Clark, Carl E.: See—
Casey, Harry B.; and Clark, Carl E., 3,657,688.
Casey, Harry B.; and Clark, Carl E., 3,657,689.
- Clark, Charles J.: See—
Sesky, Julius; and Clark, Charles J., 3,695,727.
- Clark, Charles Keith: See—
Levington, Henry John; and Clark, Charles Keith, 3,673,846.
- Clark, Chester G.: See—
Minbiole, Louis J., Jr.; Clark, Chester G.; and Neumann, John W., 3,664,354.
Neumann, John W.; Clark, Chester G.; and Minbiole, Louis J., Jr., 3,704,685.
- Clark, Clyde C., to TRW Inc. Apparatus for melting titanium. 3,665,083, 5-23-72, Cl. 13-26.
- Clark, Danford E.: See—
Ward, John W.; and Clark, Danford E., 3,692,692.
- Clark, Donald B.: See—
Brown, George T., Jr.; and Clark, Donald B., 3,697,323.
- Clark, Donald E.: See—
Album, Harvey E.; Clark, Donald E.; Grant, Norman H.; and Lapidus, Milton, 3,703,542.
Album, Harvey E.; Clark, Donald E.; Grant, Norman H.; and Lapidus, Milton, 3,703,543.
- Clark, Donald George; and Hicks, Derek J., to AMP Incorporated, mesne. Dereeling apparatus. 3,638,877, 2-1-72, Cl. 242-128.
- Clark, Duane J.: See—
Church, Herman S.; and Clark, Duane J., 3,667,726.
- Clark, Duncan; and Hayden, Percy, to Imperial Chemical Industries Limited. Process for the production of ethylenic compounds. 3,637,867, 1-25-72, Cl. 260-614.
- Clark, Duncan; and Hayden, Percy, to Imperial Chemical Industries Limited. Production of ethers. 3,641,162, 2-8-72, Cl. 260-614.
- Clark, Earl: See—
Childers, Clifford W.; and Clark, Earl, 3,649,716.
- Clark, Edgar L., to Commercial Solvents Corporation. Water-soluble alkyd resin compositions. 3,699,065, 10-17-72, Cl. 260-22.00r.
- Clark, Elton L., to Grace, W. R., & Co. Certain substituted 1,3 diketones as soil fungicides. 3,636,214, 1-18-72, Cl. 424-245.
- Clark Equipment Company: See—
Bauer, James J., 3,646,596.
Bauer, James J., 3,685,365.
Bice, William A.; and Riddle, Michael W., 3,659,458.
Bjorklund, Elmer G., 3,687,253.
Burch, Arthur R., 3,662,860.
Burch, Arthur R.; and Bates, Charles E., 3,670,905.
Burch, Arthur R., 3,691,398.
Butts, Earl E., 3,690,175.
Butts, Edward E., 3,664,146.
Cosby, Henry L., 3,687,484.
Dence, Donald S., 3,677,105.
Gaylor, Richard P., 3,670,631.
Goyarts, Wynand M.J.M., 3,698,581.
Grant, Lewis F., 3,698,737.
Hansen, Howard C., 3,672,526.
Hartline, Rolland L., Jr., 3,662,819.
Heggen, John Peter, 3,705,600.
Howard, Wayne R.; and Sisson, Ronald L., 3,636,705.
Hunter, Calvin W., 3,664,534.
Hunter, Calvin W., 3,675,589.
Ibrahim, Fayed F., 3,675,440.
King, James F., 3,638,818.
King, James F., 3,698,490.
Lake, Edward E., 3,692,198.
Lapaich, Michael W., 3,682,432.
Link, David H., 3,643,827.
Myers, James E., 3,700,114.
Orms, James L., 3,679,256.
Perez, Arthur, 3,675,441.
Perez, Arthur, 3,698,205.
Pratt, Robert A., 3,635,362.
Reinhardt, Robert L., 3,670,822.
Reinhardt, Robert L., 3,695,709.
Snyder, James H., 3,646,890.
Snyder, James H., 3,664,126.
Stuller, Howard E.; and Baker, Jerry D., 3,666,034.
Visser, Peter J., 3,691,911.
Williamson, William A., 3,670,838.
Williamson, William A., 3,703,806.
Witt, Kenneth C., 3,692,138.
Zachary, Ralph K.; and Luoma, John F., 3,702,161.
- Clark Equipment Company, mesne: See—
Bauer, James J., 3,635,365.
Short, Ralph H., 3,664,527.
- Clark, Eric; and Sumerling, Roger Adrian, to Ferodo Limited. Friction materials. 3,660,120, 5-2-72, Cl. 106-36.
- Clark, Forrester A.: See—
Speller Frank N., Jr., 3,675,715.
- Clark, Frank: See—
Hochhauser, Arthur; and Clark, Frank, 3,694,228.
- Clark, Frank E., to Container Corporation of America. Ventilated stackable container. 3,660,116, 5-2-72, Cl. 99-171.
- Clark, Frank Emmons, to Babcock & Wilcox Company, The. Insert dispenser. 3,706,247, 12-19-72, Cl. 83-24.000.
- Clark, Frank S.; and McHugh, Kenneth L., to Monsanto Company. Metaltic treatment of polyphenyl thioethers to improve oxidative stability. 3,634,521, 1-11-72, Cl. 260-609.
- Clark, Frank S., to Monsanto Company. Polyphenyl thioether lubricating compositions. 3,677,944, 7-18-72, Cl. 252-48.400.
- Clark, Frank S., to Monsanto Company. Polyphenyl ether lubricating compositions. 3,704,277, 11-28-72, Cl. 252-54.600.
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Clark, James T., 3,668,765.
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Goellner, Allan R., 3,696,829.
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Ram, Michael J.; Riggs, John P.; and Clarke, Charles M., 3,677,705.
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Spanton, Robert George; Wakefield, Gordon Cecil John; Quarby, Robert Charles; and Clarke, Terence James Leonard, 3,662,923.
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Byers, John E.; and Claussen, Wells H., 3,687,565.
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Edwards, John W.; Eason, John W., Jr.; Chapman, Adrian R.; and Clavel, Emerson M., 3,646,741.
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Swaine, Robert L.; and Prendergast, Anne M., 3,632,354.
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Ryley, Derek Vernon; and Claydon, Gyongyver, 3,700,789.
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De Coene, Frans J., 3,648,709.
De Coene, Frans J.; and Strubbe, Gilbert J., 3,669,124.
De Coene, Frans J., 3,678,938.
DeCoene, Frans J., 3,669,291.
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Snare, Victor; and Clayton, Alfred L., 3,686,692.
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Scheidel, Christian T., 3,635,406.
Umstead, Herbert R., 3,662,926.
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Farmery, George K., 3,667,497.
Page, Wilbur M.; and Coupland, Ralph, 3,666,324.
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Johnson, Ralph L.; and Clayton, Gary E., 3,651,820.
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Burke, Thomas J.; Belle, Jack; and Clayton, John C., 3,657,137.
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Hart, James A., Jr.; and Clayton, Lorimer, Jr., 3,636,457.
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Cline, Edwin L., 3,698,243.
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Howes, Peter A., 3,650,149.
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Arden, Thomas Victor; Borra, Albert George; and Clayton, Rolf Crowther, 3,674,685.
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Jarrett, Earl K., 3,697,710.
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Deike, Robert F., 3,633,514.
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Rukavina, Louis, Jr.; Brower, Robert L.; and Lane, Daniel J., 3,705,437.
- Clear Hooters Limited: See—
Austin, Levi J. F., 3,633,821.
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Darby, James G.; and Clearman, Jack F., 3,704,599.
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- Cleaver, John C., to Aqua-Chem, Inc. Boiler. 3,693,598, 9-26-72, Cl. 122-274.000.
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Desilets, Dennis W.; and Cleaver, Michael E., 3,662,688.
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Bancroft, James R.; Cleavinger, Richard L.; Hall, James M.; and Harris, Mark, 3,634,691.
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Gauthier, Oscar, 3,675,657.
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Schrenk, Walter J.; Chisholm, Douglas S.; Cleereman, Kenneth J.; and Alfrey, Turner, Jr., 3,647,612.
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Jentsch, Dietrich; and Clegg, Herbert, 3,701,180.
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Jones, Ewart Ray Herbert; Meakins, George Denis; and Clegg, Andres Samuel, 3,692,629.
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Briggs, Peter James; and Clegg, William Raymond, 3,635,904.
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Marcarian, Jean Hrand; and Clemencet, Roland Louis Julien, 3,691,273.
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Clack, Peter Joseph; Wiswell, James David; and Clemens, Anton Hubert, 3,697,730.
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McKillip, William J.; and Clemens, Lawrence M., 3,706,797.
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Oglevee, Harold J.; and Clement, Bobby R., 3,632,700.
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Neel, Emmanuel E. A.; Gaucher, Michel; and Clement Claude J., 3,684,695.
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Clement, Clyde H.; and Larson, Leland B., 3,638,170.
Larson, Leland B.; and Clement, Clyde H., 3,670,959.
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Kisker, Laurence J.; and Mathewson, William G., 3,697,657.
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De Lisio, Michael P.; and Clement, Robert L., 3,695,004.
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- Clemente, Joseph: See—
Ficon, Joseph; and Clemente, Joseph, 3,665,710.
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Hartigan, James J.; and Clementi, Robert J., 3,692,525.
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- Clements, Ralph E., to Barber-Colman Company. Burst length proportioning controller. 3,633,094, 1-4-72, Cl. 323-18.
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Arthur, Eric Richard; and Clemesha, Oliver Robert, 3,662,931.
- Cleminshaw, Douglas R.: See—
Scott, Merton E.; Schmutzler, Richard W.; and Cleminshaw, Douglas R., 3,685,097.
- Clemmensen, Ellen: See—
Anneberg, Vilhelm; Clemmensen, Ellen; Gudmandsen, Robert; and Scheibel, Axel, 3,700,829.
- Clemons, Victor G. Line move. 3,707,164, 12-26-72, Cl. 137-344.000.
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Alphin, John G.; and Fitner, John B., 3,695,014.
Richardson, Melvin K., 3,665,689.
- Clenaglass Electric Washer Limited: See—
Durham, Charles Edward, 3,675,263.
- Clendenen, Donald: See—
Argyres, George; and Clendenen, Donald, 3,643,823.
- Clendenin Investors Limited Partnership: See—
Atkinson, Roger F.; Parr, Richard H., Jr.; and Weil, Edward A., 3,697,984.
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- Clendennen, Leo; and Smith, Charlie P., to LTV Electrosystems, Inc. Component lead forming tool and method. 3,692,069, 9-19-72, Cl. 140-106.000.
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Comte, Bernard; and Cler, Victor, 3,706,839.
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Collet, Pierre Daniel; and Clero, Guy, 3,655,387.
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- Cless, Gerhard, to Teletype Corporation. Friction clutch. 3,647,036, 3-7-72, Cl. 192-26.
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Chess, Samuel; and Cleveland, Bruce B., 3,703,468.
- Cleveland, Bruce M.: See—
Zarcone, Carl J.; Cleveland, Bruce M.; and Smith, Donald F., 3,639,842.
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- Cleveland, Dixon: See—
Barron, Roger L.; and Cleveland, Dixon, 3,701,889.
- Cleveland Pneumatic Tool Company, The: See—
Hartel, Erwin H., 3,652,040.
- Cleveland, Rex: See—
Womble, George E.; and Cleveland, Rex, 3,702,639.
- Cleveland, Richard E.; Fisher, Jack M.; Glaze, Jack G.; and Jeakle, William G., to Borg-Warner Corporation. Four wheel drive vehicle incorporating limited slip interaxle differential. 3,650,349, 3-21-72, Cl. 180-44.
- Cleveland Technical Center, Inc.: See—
Roll, Kenneth A., 3,635,310.
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- Clevenger, Loyd H.: See—
Sloan, Benjamin Johnston, Jr.; Martin, Billy M.; Clevenger, Loyd H.; and Dunn, Roger S., 3,659,160.
- Clevopak Corporation: See—
Gardner, Roland C., 3,665,819.
Stump, Paul W., 3,648,920.
Stump, Paul W.; and Bierstedt, Heinz J., 3,665,818.
- Clevite Corporation: See—
Arthur, Gene M., 3,684,271.
Blumenthal, John, 3,654,659.
Brown, Arling Dix, Jr., 3,653,065.
Brown, Arling Dix, Jr.; and Blumenthal, John, 3,657,005.
Brown, Arling Dix, Jr., 3,662,396.
Eaton, Lloyd W., 3,634,142.
Kaminskas, Anthony F., 3,651,849.
Kaminskas, Anthony F.; and Luszczka, Steven O., 3,658,109.
Kingsbury, George R.; and Slater, Raymond L., 3,652,344.
Luszczka, Steven O., 3,658,314.
Sauerland, Franz L., 3,697,903.

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Selker, Milton L.; Berdan, Betty L.; and Luce, Betty M., 3,644,105.
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Cliffe, Walter W.: See—
Klingbeil, Herbert N.; Cliffe, Walter W.; and Castell, William A., 3,660,229.
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Clifford, Colin, to General Instrument Microelectronics Ltd. Look-ahead carry for counters. 3,649,815, 3-14-72, Cl. 235-92.
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Ganowsky, Raymond J., 3,671,898.
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Ganowsky, Raymond J., 3,693,124.
Climate Conditioning Corporation: See—
Mc Kay, Edwin C., 3,651,197.
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Cline, Edwin L., to Clayton Manufacturing Company. Apparatus for controlling the characteristics of fluid pressure operated friction type power absorption devices. 3,698,243, 10-17-72, Cl. 73-135.000.
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Stroup, Ralph F.; Clingman, William H., Jr.; and Post, Robert C., 3,684,585.
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Costa, Eugen; Covaci, Ioan; and Surca, Gheorghe, 3,636,632.
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Edmiston, James R.; and Clinton, Harry M., 3,689,408.
Clinton, Harry M., to Swinrite, Inc. Automatic by-pass flow control. 3,684,169, 8-15-72, Cl. 236-20.000.
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Pirrello, Angelo, 3,675,602.
Clinton, John Rodney. Heating apparatus for vaporizing propane fuel and the like. 3,645,664, 2-29-72, Cl. 431-209.
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Clinton, Raymond O., to Sterling Drug Inc. Steroid[3,2-c]pyrazoles and preparation thereof. 3,704,295, 11-28-72, Cl. 260-239.5.
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Alinder, Gilbert L., 3,639,704.
Clinton, William P.: See—
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Clish, Clyde A.: See—
Witt, Wilmer E.; Sousek, Eugene A.; and Clish, Clyde A., 3,638,363.
Clisheim, Thomas A.; Duerr, Francis R.; and Olympia, Frederick D., to Corhart Refractories Company. Electric melting furnace and process of using it. 3,703,391, 11-21-72, Cl. 106-57.000.
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Zoltan, Steven I., 3,683,212.
Clock, Gerald E.; Mildner, Raymond C.; and Walters, Harold A., to Dow Chemical Company, The. Method of fabricating cables. 3,687,748, 8-29-72, Cl. 156-56.000.
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Hynes, Donald P.; and Clopton, William H., 3,633,164.
Clorid Company: See—
Rucker, James H., 3,637,138.
Clorox Company, The: See—
Maddox, Lodric L., 3,697,217.
Summerfelt, Vernon E., 3,697,431.
Closa, Jose, to Super Caster Corporation. Tilted roller caster. 3,641,621, 2-15-72, Cl. 16-45.
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Close, Edward S. Coffee brewer. 3,657,993, 4-25-72, Cl. 99-297.000.
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Spalding, Donald P.; and Close, James G., 3,668,680.
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Close, Sam. Filter assembly and disposable filter element therefor. 3,684,100, 8-15-72, Cl. 210-444.000.
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Closner, John J.; Schupack, Morris; and Marlowe, Eugene W., to Preload Company, Inc. Pressurized storage tank. 3,633,328, 1-11-72, Cl. 52-224.
Closs, Bradley P.: See—
Riekers, Henty G.; and Closs, Bradley P., 3,657,561.
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Clot, Jean: See—
Falvert, Daniel; Giralt, Georges; Clot, Jean; and Authie, Gerard, 3,686,492.
Cloud, Charles E.: See—
Benner, Harold Thomas Jr.; and Cloud, Charles E., 3,667,188.
Cloud, Charles E., to Cloud Machine Corporation. Method of cutting articles from a strip. 3,683,729, 8-15-72, Cl. 83-24.000.
Cloud, Fayette J., Jr., to Bonsal, W. R., Company. Apparatus for proportioning dry particulate materials. 3,661,365, 5-9-72, Cl. 259-154.
Cloud, Larry L.: See—
Kelly, Vincent J.; Smalligan, Wayne J.; and Cloud, Larry L., 3,690,894.
Cloud Machine Corporation: See—
Benner, Harold Thomas Jr.; and Cloud, Charles E., 3,667,188.
Cloud, Charles E., 3,683,729.
Cloud, Robert A.: See—
Langley, Thomas W.; and Cloud, Robert A., 3,636,986.
Cloud, William S., Jr. Tube-forming packaging machine. 3,640,051, 2-8-72, Cl. 53-178.
Clouet, Andre: See—
Combe, Christian; Clouet, Andre; Marchal, Michel; Villard, Michel; and Grenier, Pierre, 3,658,680.
Clough, Philip J.; and Eisner, Steve, to Norton Company. Low temperature vapor deposits of thick film coatings. 3,632,406, 1-4-72, Cl. 117-107.1.
Clough, Philip J.; and Keough, Allen H., to King-Seeley Thermos Co., mesne. Machine-washable metallized fibrous article and method of making same. 3,646,749, 3-7-72, Cl. 57-153.
Clough, Philip J.; and Steeves, Robert W., to King-Seeley Thermos Co., mesne. Insulating material. 3,707,433, 12-26-72, Cl. 161-143.000.
Clough, Roy L., Jr.: See—
Snow, John F.; and Clough, Roy L., Jr., 3,664,647.
Clough, Thomas J., to Sinclair Research, Inc. Condensation product of oil-soluble polymers with polyamine. 3,647,731, 3-7-72, Cl. 260-23.7.
Clough, Thomas J., to Atlantic Richfield Company. Lubricating oil composition containing a phosphonamide. 3,650,953, 3-21-72, Cl. 252-49.9.
Cloup, Jean. Control means for fluid-operated drive members. 3,635,575, 1-18-72, Cl. 415-1.
Cloup, Jean. Punching machine-tools. 3,704,644, 12-5-72, Cl. 83-639.000.
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Little, Joseph P.; and Clouse, Jerry A., 3,669,576.
Cloutier, Emeric. Endless fishing cable installation. 3,672,091, 6-27-72, Cl. 43-27.400.
Cloutier, Roy L. Picture device and method of making pictures utilizing the same. 3,692,382, 9-19-72, Cl. 350-5.000.
Clover Industries, Inc.: See—
Simonelli, Le Roy S.; Randolph, Leonard B.; and Damico, Sam, 3,651,965.
Clover, John R. Depth control skid for land working machine. 3,684,029, 8-15-72, Cl. 172-239.000.
Clover, Richmond Bennett, Jr., to RCA Corporation. Bubble domain sonic propagation device. 3,673,582, 6-27-72, Cl. 340-174.0ms.
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Owens, Frederick H.; and Clovis, James S., 3,668,274.
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Bevington, William J., 3,698,744.
Clow, William L.; Benzing, Robert J.; and McConnell, Bobby D., to United States of America, Air Force. Air drying silicone resin bonded dry film lubricant. 3,674,690, 7-4-72, Cl. 252-25.000.
Cloyd, Harold S., to Nosco Plastics, Incorporated. Two component syringe. 3,659,602, 5-2-72, Cl. 128-220.
Cloyd, Harold S., to Nosco Plastics Incorporated. Pallet. 3,691,965, 9-19-72, Cl. 108-58.000.
Clua, Jorge Borguno: See—
Bosch, Juan Casso; and Clua, Jorge Borguno, 3,688,053.
Clubbe, Walter W., to Robertshaw Controls Company, mesne. Accurately switching bistable circuit. 3,636,383, 1-18-72, Cl. 307-291.
Cluett, Peabody & Co., Inc.: See—
Brown, Fred A., III; and Le Mere, Roger, 3,697,354.
Fischer, George, 3,694,870.
McFalls, Richard J., 3,664,283.
Morton, Kenneth O., 3,661,384.
Wagar, Albert E., 3,664,282.
Cluett, Peabody & Co., Inc., mesne: See—
Pandell, Nestor W.; and Temin, Samuel C., 3,632,296.
Cluett, Ronald D., to GTE Laboratories Incorporated. Arc discharge lamp control circuit. 3,700,956, 10-24-72, Cl. 315-101.000.
Clumpler, Jon Michael. Cationic emulsifier system. 3,658,718, 4-25-72, Cl. 252-357.
Clune, Richard R.; and Kaye, Gordon E., to Mallory, P. R., & Co., Inc. Battery packaging device. 3,660,169, 5-2-72, Cl. 136-111.

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Clusener, Gerhard R. Dilatometer. 3,680,357, 8-1-72, Cl. 73-16.000.
Cluwen, Johannes Meyer, to U.S. Philips Corporation. Wave transmission time device. 3,654,575, 4-4-72, Cl. 333-30.
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Clyde Corporation: See—
Ginther, Gary D., 3,695,461.
Clyde Machines, Inc.: See—
Olson, Clyde W., 3,684,108.
Clymer, Frederick H., Jr.: See—
Willis, Grant N., 3,662,301.
Clynch, Frank: See—
Robinson, Charles L.; and Clynch, Frank, 3,632,172.
Clynch, Frank, to Dresser Industries, Inc., mesne. Land vehicle releasably carrying a geophysical exploration tool. 3,658,148, 4-25-72, Cl. 181-5.
Clynes, Manfred E. Programmed system for evoking emotional responses. 3,691,652, 9-19-72, Cl. 35-22.00r.
CMD Electronics, Inc.: See—
King, Ray J., 3,707,661.
CMI Corporation: See—
Brock, James Donald, 3,693,945.
Meli, Joseph, 3,650,521.
Mize, Erbie G.; and Brock, James D., 3,638,911.
Snow, Ralph K., 3,637,026.
Swisher, George W., Jr.; Smith, Don W.; and Snow, Ralph K., Jr., 3,637,036.
C.N.M.P. Berthiez: See—
Chabrier, Martial, 3,695,127.
Neuman, Marcel, 3,656,860.
Co-Polymer Chemicals, Inc.: See—
Pewtress, Vernon J., 3,642,203.
Coach and Car Equipment Corporation: See—
Bilancia, Raymond A., 3,642,322.
Harder, Arthur J., Jr.; and Bilancia, Raymond A., 3,638,897.
Hultquist, Gordon W., 3,647,259.
Coachmen Industries, Inc.: See—
Corson, Claude E., 3,695,666.
Coackley, Robert; Reynolds, Michael Leslie; and Rodgers, Clive Douglas, to National Research Development Corporation. Infrared radiometer apparatus for detecting clear air turbulence from an aircraft. 3,641,345, 2-8-72, Cl. 250-83.3.
Coad, George: See—
Cassady, John; and Coad, George, 3,690,670.
Coaker, Antony W. M.; and Gross, Richard C., to Monsanto Company. Lubricated thermoplastic resin compositions. 3,666,510, 5-30-72, Cl. 106-181.
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Agnew, James Malcolm, 3,700,284.
Granger, Anthony F., 3,663,171.
Hoult, Raymond Oliver, 3,706,416.
McLaren, James; and Harris, Walter, 3,636,896.
Oven, Terence; and Boast, Gordon Ernest, 3,658,385.
Trolley, John Henry, 3,703,315.
Coal Tar Research Association, The: See—
Sharp, John Alan; and Dean, Raymond Ernest, 3,642,912.
Coale, Harold D. Poly(arylene sulfide) smoking element. 3,695,276, 10-3-72, Cl. 131-191.000.
Coaley, Albert E., to SKF Industries, Inc. Self-aligning clutch release bearing. 3,631,954, 1-4-72, Cl. 192-98.
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Coars Porcelain Company: See—
Spurck, Richard F., 3,700,788.
Coast Catamaran Corporation: See—
Alter, Hobart L., 3,678,876.
Coast, Geoffrey; and Morgan, Vernon, to United Kingdom Atomic Energy Authority. Gas cooled nuclear reactor installation. 3,656,566, 4-18-72, Cl. 176-59.
Coast, John B.: See—
Waltman, Robert E.; Coast, John B.; and Hinz, Gary A., 3,649,148.
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Coast, John B., 3,671,033.
- Coast Marine & Industrial Supply Inc.: *See*—
Haglund, Bernard F.; and Salvarezza, Robert M., 3,675,257.
- Coast Metals, Inc.: *See*—
Cape, Arthur T., 3,669,653.
Cape, Arthur T., 3,674,979.
- Coastal Zone Resources Corporation of N.C.: *See*—
Adams, David A., 3,685,490.
- Coates, Clarence A., Jr.: *See*—
Fisher, John G.; and Coates, Clarence A., Jr., 3,634,391.
Weaver, Max A.; Straley, James M.; and Coates, Clarence A., Jr., 3,635,941.
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- Coates, Harold Jefferson, to Reynolds Metals Company. Use of cationic permselective membranes in anodizing. 3,634,213, 1-11-72, Cl. 204-56.
- Coates, John Stuart, to Du Pont de Nemours, E. I., and Company. Regeneration of nickel-aluminum catalysts by polycarboxylic acid washing. 3,676,364, 7-11-72, Cl. 252-413.000.
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- Coates, Leroy, to Willy Whoper, Inc. Rebounding tethered ball. 3,643,948, 2-22-72, Cl. 273-97.
- Coates, Robert N. Self-propelled irrigation sprinkling system. 3,653,400, 4-4-72, Cl. 137-344.
- Coates, Vincent J.; and Welter, Leonard M., to American Optical Corporation. Field emission electron gun utilizing means for protecting the field emission tip from high voltage discharges. 3,678,333, 7-18-72, Cl. 315-31.000.
- Coates, William M.: *See*—
Corrigan, John R.; and Coates, William M., 3,641,058.
- Coathylene S.A.: *See*—
Korsgen, Hans Helmuth; and Weller, Wolfgang, 3,679,638.
- Coatings Engineering Corporation: *See*—
Knott, James M., 3,707,033.
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- Coats Company, Inc.: *See*—
Motis, Gilbert M., 3,700,021.
Sorenson, Billy L.; and Scott, Ray A., 3,669,175.
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- Coats, David E., to Western Piping & Engineering Co., Inc. Exhaust pipe ball connector. 3,652,108, 3-28-72, Cl. 285-165.
- Coats, Jesse C. Combination lumber stacker, sticker placer and unloader. 3,703,965, 11-28-72, Cl. 214-6.00m.
- Coats, John C.; and Wilson, George W., III, to Republic National Bank of Dallas Irving Trust Company and Union Bank. Variable setpoint proportional control apparatus for vacuum bakeout systems. 3,674,984, 7-4-72, Cl. 219-496.000.
- Coats, John H.: *See*—
Argoudelis, Alexander D.; Coats, John H.; and Reusser, Fritz, 3,639,581.
Argoudelis, Alexander D.; and Coats, John H., 3,641,244.
Argoudelis, Alexander D.; and Coats, John H., 3,671,647.
Argoudelis, Alexander D.; Coats, John H.; and Pyke, Thomas R., 3,697,380.
Bergy, Malcolm E.; Coats, John H.; and Reusser, Fritz, 3,689,639.
- Coats, John H.; Herr, Milton E.; and Herr, Ross R., to Upjohn Company. The Antibiotic sphaeropsidin. 3,701,790, 10-31-72, Cl. 260-348.00c.
- Coats, Robert Reid; and Greenway, John Michael, to Imperial Chemical Industries Limited. Heat treatment of yarns. 3,704,493, 12-5-72, Cl. 28-1.200.
- Coats, William M. Horseshoe fastener. 3,670,619, 6-20-72, Cl. 85-9.000.
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Mc Voy, David S., 3,703,684.
McVoy, David S., 3,637,919.
McVoy, David S., 3,684,823.
McVoy, David S., 3,686,573.
- Cobarg, Claus Christian: *See*—
Napierski, Peinhard; and Cobarg, Claus Christian, 3,692,999.
Rams, Dieter; and Cobarg, Claus Christian, 3,645,087.
- Cobb, Alvin A. Marine hull. 3,662,701, 5-16-72, Cl. 114-68.
- Cobb, Harold W., to Dennison Manufacturing Company. Heated corona charging unit. 3,665,181, 5-23-72, Cl. 250-49.57.
- Cobb, James W.: *See*—
Rovin, Herman; Cobb, James W.; Opuszenski, Theodore; Wilard, Richard H.; Rigat, Raymond, Jr.; and Pellicano, Joseph, 3,670,675.
- Cobb, Raymond L., to Phillips Petroleum Company. 2-Halo-alkylene- and -cyclopentylene-2-aminopropane 1,3-diols. 3,660,488, 5-2-72, Cl. 260-584.
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- Cobb, Raymond L.; and Pearson, David P., to Phillips Petroleum Company. Electrolyte reduction of ozonolysis products. 3,658,667, 4-25-72, Cl. 204-73.
- Cobb, Raymond L., to Phillips Petroleum Company. Benzyloxy compounds. 3,658,915, 4-25-72, Cl. 260-611.
- Cobb, Richard O.; and Lipp, James, to International Business Machines Corporation. Optical information recording with real time display and error correction. 3,633,183, 1-4-72, Cl. 340-173.
- Cobb, William R., to Westinghouse Electric Corporation. Latch mechanism for refrigerators freezers and the like. 3,678,716, 7-25-72, Cl. 70-92.000.
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Langan, John P.; and Cobbeldick, Charles R., 3,696,222.
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Ribi, Guido, 3,689,096.
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Laurenty, Francois, 3,688,901.
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Tormey, Robert M.; and Petry, John G., 3,666,053.
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Campbell, William B., Jr.; Burroughs, Jack E.; and Cochran, Joe K., Jr., 3,638,243.
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Vogel, Walter H.; Cochrane, Richard H.; and James, Robert C., 3,652,357.
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Ingram, Brian; Spence, Douglas Roy; and Cochrane, Robin Adam, 3,690,738.
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Laval, Paul Marie Georges, 3,691,793.
Martele, Ghislain Antoine Jean-Marie, 3,675,568.
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Lee, Edward William; Tatchell, Keith Reid; Challis, Kenneth John; and Cockerton, Kenneth Archibald, 3,701,680.
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Bieber, Herman; Spenadel, Lawrence; and Coddington, David M., 3,687,746.
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Mayer, George L., Jr.; and Dobbins, David L., 3,676,000.
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Stein, Alex H.; and Coder, William D., Jr., 3,670,049.
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Forney, George David, Jr., 3,652,998.
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Dagiel, Richard T.; and Cody, David L., 3,661,354.
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Kuehl, Guenther L.; and Coelln, Axel, 3,690,439.
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Binasiak, Chester S.; Hudson, Daniel H.; and Voorheis, Temple S., 3,641,951.
Vosper, Ralph R., 3,649,211.
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Vosper, Ralph R., 3,682,451.
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Lake, Glen W.; and Coerper, Myron D., 3,662,461.
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Van Luik, Frank W.; and Coffey, Peter E., 3,674,435.
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Langendorfer, Walter J.; and Coffin, David W., Sr., 3,705,760.
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Lawrence, Willis G.; and Coffin, Leon B., 3,641,229.
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Davis, Donald Y.; and Coffinberry, George A., 3,699,774.
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Rosano, Joseph George, Jr.; and Coffman, J. D., 3,662,600.
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Kerch, John, 3,660,848.
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Darmon, Jacques; and Coffre, Philippe, 3,706,985.
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Bourquardez, Gaston; and Coffy, Rene Louis, 3,669,566.
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Foster, Larry R.; and Cogan, Jerry A., Jr., 3,634,131.
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Allen, Charles A., 3,668,655.
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- Allen, Charles A.; and Lund, Donald F., 3,685,027.
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- Anderson, Stanley R.; Bryant, Richard W.; and Tu, George K., 3,684,897.
- Boisvert, Conrad J., Jr., 3,644,899.
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- Bryant, Richard W.; and Tu, George K., 3,648,079.
- Bryant, Richard W.; and Tu, George K., 3,656,118.
- Bryant, Richard W.; and Tu, George K., 3,679,917.
- Card, Charles E., Jr.; Donovan, Daniel J.; and Sweeney, William G., 3,684,817.
- Deverse, Frank T.; Kurtz, John A.; Rendon, Daniel; Trahn, Kenneth A.; and Tuttle, James W., 3,699,917.
- Dhaka, Vir A.; Reuter, James L.; and Sandhu, Jagtar S., 3,634,204.
- Kelly, William J.; and Reynolds, Warren A., 3,681,699.
- Kelly, William J., 3,684,967.
- Marshall, Melvin R., 3,659,275.
- Meade, Robert M.; and Robinson, Richard H., 3,681,763.
- Meade, Robert M., 3,685,020.
- Reuter, James L.; and Sandhu, Jagtar S., 3,666,546.
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Breslin, Mary Anne; Cogar, George R.; Lee, Charles A.; Nedenriep, Donald O.; Romeo, Albert J.; Sevilla, Ernesto G.; and Sekse, Torkjell, 3,670,144.
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Odum, William T.; Elkins, James H.; and Coggings, Thomas M., 3,702,597.
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Horton, Robert A.; and Coghill, Timothy L., 3,668,160.
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Braude, George L.; and Cogliano, Joseph A., 3,689,661.
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Richard, Georges A. L.; Cognet, Jean-Marie F.; Heullant, Jean; and Vallier, Jean-Pierre, 3,662,067.
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Goldschein, Gerald; and Goldman, Alan L., 3,632,880.
- Cohan, Allan N.: See—
Carlson, Paul O.; Cohan, Allan N.; and Gray, Jack C., 3,658,552.
- Cohee, Donald R.: See—
Wright, Joseph E., Jr.; and Cohee, Donald R., 3,685,895.
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Chu, Victor F. H.; and Cohen, Abraham B., 3,649,268.
- Cohen, Abraham D.: See—
Pasternak, Israel S.; Gaspar, Noel J.; Cohen, Abraham D.; and Vadekar, Mohan, 3,636,183.
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Mitchell, James P.; and Cohen, Allan R., 3,667,232.
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Howard, Lawrence, 3,657,513.
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Bach, Frederick Louis; Barclay, John Claire; and Cohen, Elliott, 3,652,590.
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Leonard, Ronald James; and Cohen, Fred Michael, 3,640,340.
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Armel, Jack; Kogan, Mark; and Cohen, Howard S., 3,641,342.
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Minsk, Louis Morton; Cohen, Hyman L.; and Frauenglass, Eliott, 3,671,256.
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Beaudoin, Benoit R.; Cohen, Joseph D.; Jones, David H.; Mari-er, Lester J., Jr.; and Raab, Harry F., Jr., 3,671,392.
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- Cohen, Paul, to Westinghouse Electric Corporation. Cooling system. 3,666,246, 5-30-72, Cl. 261-151.
- Cohen, Paul J. Umbrella of collapsible construction. 3,683,948, 8-15-72, Cl. 135-20.000.
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- Cohen, Richard L., to Bendix Corporation. The Digital magnetic wheel logic control network. 3,696,390, 10-3-72, Cl. 340-324.00r.
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- Cohen, Ronald S., to Behavioral Controls, Inc. Speech training apparatus and method of teaching therewith. 3,667,138, 6-6-72, Cl. 35-35.00c.
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- Cohn, Nathan, to Leeds & Northrup Company. Methods of and systems for coordinated system-wide energy balancing in the control of bulk power transfer. 3,701,891, 10-31-72, Cl. 235-151.210.
- Cohn, Nathan, to Leeds & Northrup Company. Load shedding apparatus. 3,704,380, 11-28-72, Cl. 307-52.000.
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Renskers, John O., 3,671,905.
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Galli, Guido; and Coker, Jesse E., 3,664,867.
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Gerber, Johannes F.; and Cola, Rudolph A., 3,668,366.
- Cola, Rudolph A., to Burroughs Corporation. Display panel and method of operating said pane to produce different colors of light output. 3,704,386, 11-28-72, Cl. 313-108.00r.
- Colalillo, Edward P.: See—
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- Colantuono, William R., to Crucible Inc. Protective coating. 3,698,943, 10-17-72, Cl. 117-53.000.
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- Colas, Francois, to Cegedur GP. Load-carrying pallet. 3,675,596, 7-11-72, Cl. 108-51.000.
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- Colbaugh, Syril A. Lapidary machine. 3,673,742, 7-4-72, Cl. 51-101.00r.
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- Colburn, Donald A. Combination truck wheel unlatching hook and petcock release device. 3,644,951, 2-29-72, Cl. 7-1.
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- Colburn, John P. Piano instruction device. 3,690,212, 9-12-72, Cl. 84-478.000.
- Colburn, Lyle W., to Dow Chemical Company, The. Film-to-film skin packaging. 3,648,428, 3-14-72, Cl. 53-21.
- Colburn, William H., Jr., to Space Ordnance Systems Inc., mesne. Delay composition and device. 3,703,144, 11-21-72, Cl. 102-24.000.
- Colby, Kenneth G., to Sperry Rand Corporation. Collision avoidance system. 3,697,986, 10-10-72, Cl. 343-5.00r.
- Colby, Richard H., to General Electric Company. Bolt accelerator. 3,635,123, 1-18-72, Cl. 89-169.
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- Colby, Thomas H., to Shell Oil Company. Process for organophosphorus vinyl esters production. 3,696,176, 10-3-72, Cl. 260-986.000.
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Carby, John Gerard; and Colchester, John Edward, 3,644,383.
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Moss, Eric Frank, 3,643,532.
- Colclough, Terence; Morris, Arthur L.; and Hodges, Robert J., to Esso Research and Engineering Company. Lubricating oil compositions. 3,687,848, 8-29-72, Cl. 252-32.70e.
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Wells, Henry; and Colclough, William James, 3,657,082.
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Sandstrom, Unto; Abramson, Nils; Sjolun, Ulf; Murray, Henrik; and Colding, Bertil, 3,662,279.
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Boyer, Lyndon D.; Coldiron, Arnold L.; and Wong, Soon Y., 3,655,801.
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Cole, Stephen W., 3,646,244.
- Cole, Clifford M.: See—
Peterson, David L.; and Cole, Clifford M., 3,661,263.
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Nino, Fernando J.; and Cole, Donald Q., 3,680,348.
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Hess, Howard V.; and Cole, Edward L., 3,642,458.
Hess, Howard V.; Wilson, Raymond F.; and Cole, Edward L., 3,652,405.
Hess, Howard V.; and Cole, Edward L., 3,671,403.
Schwager, Irving; Leak, Robert J.; and Cole, Edward L., 3,671,591.
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- Cole, Edward L.; and Hess, Howard V., to Texaco Inc. Continuous process for separating oily sludges. 3,696,021, 10-3-72, Cl. 208-13.000.
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Atkinson, Ward J.; and Cole, Edward N., 3,646,876.

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- Cole, Edward N., to General Motors Corporation. Exhaust emission control. 3,674,441, 7-4-72, Cl. 23-288.00f.
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- Cole, Ernest A., Jr.; Watson, Frederick D.; and Mayse, Weldon D., to Petrolite Corporation. Separator with vessel-length phase separation sections. 3,649,516, 3-14-72, Cl. 204-302.
- Cole, Everett N., Jr., to Consolidated Design, Inc. Diode tester. 3,702,438, 11-7-72, Cl. 324-158.00f.
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Reed, William A.; and Cole, Frank J., 3,640,762.
Roblin, John M.; Cole, Frank J.; and Reed, William A., 3,672,327.
Roblin, John M.; Cole, Frank J.; and Reed, William A., 3,690,638.
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- Cole, Fred H. Disconnect switch for electric power systems. 3,634,634, 1-11-72, Cl. 200-48.
- Cole, Harold E., to Eastman Kodak Company. Diffusion transfer products adapted for multiple application of processing composition and/or opacifier and processes for their use. 3,635,707, 1-18-72, Cl. 96-3.
- Cole, Harold E., to Eastman Kodak Company. Photographic film unit. 3,672,272, 6-27-72, Cl. 95-13.000.
- Cole, Harold Wade, to Du Pont de Nemours, E. I., and Company. Apparatus for winding yarn. 3,638,873, 2-1-72, Cl. 242-45.
- Cole, Herbert S., Jr., to General Electric Company. Electron sensitive compositions. 3,703,402, 11-21-72, Cl. 117-37.00r.
- Cole, Howard W., Jr.: See—
Davidson, William M.; and Cole, Howard W., Jr., 3,657,752.
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- Cole, James B., to Boeing Company, The. Variable camber airfoil. 3,698,668, 10-17-72, Cl. 244-44.
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Farrow, Roger M.; Kimber, Anthony B.; Cole, John Barrington; Miles, John Walter; and Griffiths, Graham Ernest, 3,698,562.
- Cole, John Charles O.: See—
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Barrer, Richard M.; and Cole, John F., 3,674,709.
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- Cole, John M.; and Sinclair, William, to Thomas & Betts Corporation. Method of fabricating a magnetic memory matrix. 3,676,924, 7-18-72, Cl. 29-604.000.
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Hallas, Robert; and Cole, John Wayne, 3,691,176.
Lynch, Don Murl; and Cole, John Wayne, 3,681,436.
- Cole, John Wayne; and Hallas, Robert, to Abbott Laboratories. 4-Anilino-1-(4-p-fluorophenyl-1-butyl) piperidine compounds. 3,686,187, 8-22-72, Cl. 260-293.790.
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- Cole, Joseph J.; and Bookwalter, Charles A., II. Automatic wheel cleaning apparatus. 3,667,486, 6-6-72, Cl. 134-45.000.
- Cole, Judson C., to Continental Industries, Inc. Torque wrench. 3,703,827, 11-28-72, Cl. 73-139.000.
- Cole, Louis F., to Union Carbide Corporation. Liquid eutectic mixtures of ortho-tolylene-diamine, meta-tolylene-diamine and bis (aminophenyl) methane. 3,647,702, 3-7-72, Cl. 252-182.
- Cole, Manning E. Conveyor for washing glassware. 3,648,822, 3-14-72, Cl. 198-131.
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Hatcher, John C., 3,673,970.
Hatcher, John C., 3,679,224.
- Cole, Nancy C.: See—
Canonica, Domenic A.; Cole, Nancy C.; and Houck, Clarence W., 3,673,038.
- Cole National Corporation: See—
Hungerford, Philip C., Jr.; Gereby, John L.; and Richens, Robert H., 3,675,536.
Kaplan, Herman L., 3,651,573.
- Cole, Peter Harold; and Vaughan, Richard. Electronic surveillance system. 3,706,094, 12-12-72, Cl. 343-6.5ss.
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- Cole, Robert C., to Halliburton Company. Flexible sealant composition. 3,649,574, 3-14-72, Cl. 260-17.4.
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- Cole, Roy D., to United States of America, Navy. Angular rate bombing system. 3,699,310, 10-17-72, Cl. 235-61.50d.
- Cole, Saxon, to American Air Filter Company, Inc. Control arrangement for an air heating apparatus. 3,694,625, 9-26-72, Cl. 219-364.000.
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Weston, Murray; Anderson, Dennis; and Cole, Steve, 3,668,479.
- Cole, Theodore H. Article former. 3,704,622, 12-5-72, Cl. 72-477.000.
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- Cole, William J.; and Rytina, Anton W., to Brunswick Corporation. Variable depth coating apparatus. 3,646,909, 3-7-72, Cl. 118-629.
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- Cole, Willie E. Portable collapsible work table. 3,669,031, 6-13-72, Cl. 108-50.000.
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- Colebrook, Ross W.; and Ellis, Peter H., to Boeing Company, The and Rohr Corporation. Supersonic noise suppressor. 3,650,348, 3-21-72, Cl. 181-33.
- Coleby, John, to Graesser, R., Limited. Treatment of solids with liquids. 3,649,209, 3-14-72, Cl. 23-270.
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Bischoff, Vincent E.; and Colecchi, Paul S., 3,656,818.
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Addison, Charles J.; and Diamond, Joseph, 3,633,221.
Huffman, Donald; and Majewski, Richard M., 3,704,889.
Hunter, Bruce H.; and Reiner, Norbert L., 3,685,657.
Reiner, Norbert L., 3,664,760.
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Miller, Leo H.; and Colegrove, James A., 3,677,059.
- Colella, Carmine: See—
Sersale, Riccardo; Franco, Enrico; Jello, Rosario; and Colella, Carmine, 3,694,152.
- Coleman, Bestor P.: See—
Plattner, Robert F.; and Coleman, Bestor P., 3,688,999.
- Coleman Cable & Wire Company: See—
Coleman, Neil, 3,634,607.
Coleman, Neil, 3,649,744.
- Coleman, Charles M. Reagent solution preparation. 3,647,397, 3-7-72, Cl. 23-309.
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Cornett, Cecil J.; Dolton, Glen D.; and Kurtyka, John R., 3,656,494.
Goodgion, James C.; and Blossom, Armond L., 3,656,470.
Goodgion, James C.; and Blossom, Armond L., 3,685,577.
Honaker, Bernard G., Jr., 3,643,646.
Honaker, Bernard G., Jr., 3,680,541.
May, Randall L., 3,693,193.
McCain, Lawrence G., 3,671,739.
Worley, Lajren D.; and Conley, James R., 3,690,708.
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Reid, Marvin A.; and Swift, William R., 3,643,570.
- Coleman, Ernest E.: See—
Vedensky, Dmitri N.; and Coleman, Ernest E., 3,634,064.

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- Coleman, Kelly R. Display device. 3,702,033, 11-7-72, Cl. 40-129.00r.
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Ogle, Paul E.; Coleman, Kenneth L.; Wagner, Ross W.; and Harter, Lynn J., 3,690,272.
- Coleman, Kenneth W.: See—
Buzard, Joseph Burton; Coleman, Kenneth W.; and Zelenz, Martin Leroy, 3,648,363.
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- Coleman, Lester F.: See—
Crouthamel, Carl E.; Coleman, Lester F.; Bernstein, George J.; and Henault, Peter B., 3,663,363.
- Coleman, Lewis E.: See—
Paige, Dennis D.; and Coleman, Lewis E., 3,685,468.
- Coleman, Marvin H.: See—
Burgis, William J.; and Coleman, Marvin H., 3,650,376.
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- Coleman, Patricia A. Flat doll. 3,668,805, 6-13-72, Cl. 46-151.000.
- Coleman, Richard D.: See—
Capes, Charles E.; McIlhinney, Allan E.; and Coleman, Richard D., 3,665,066.
- Coleman, Richard L.: See—
Cummins, Billy H.; Ashton, William B.; Coleman, Richard L.; and Odell, Norman R., 3,702,817.
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- Coles, Roy D.; and Richardson, Edwin A., to Shell Oil Company. Heat-guided hydroxide plugging. 3,669,188, 6-13-72, Cl. 166-270.000.
- Coless, Thomas L.: See—
Oberly, James E.; Coless, Thomas L.; and Rimer, D. Woodrow, 3,663,313.
- Colette, Michael, to Orbit Laboratories, Inc. Multiple function testing device for internal combustion engine. 3,693,073, 9-19-72, Cl. 324-16.00r.
- Coletti, Donn K.: See—
Weinland, Stuart L.; and Coletti, Donn K., 3,694,264.
- Colevray, Louis: See—
Chabardes, Pierre; and Colevray, Louis, 3,647,832.
- Coley, Kenneth R.: See—
Coffey, William F.; and Coley, Kenneth R., 3,707,652.
Coffey, William F.; and Coley, Kenneth R., 3,707,653.
De Angelo, Gerald J.; Gelzeiser, Francis L.; and Coley, Kenneth R., 3,683,414.
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- Colgate-Palmolive Company: See—
Anzuino, Giuseppe; and Robbins, Clarence Ralph, 3,633,591.
Anzuino, Giuseppe, 3,676,550.
Austin, Amory Earl; and Bechtold, Charles L., 3,701,736.
Chirash, William; and Burke, Richard Lerda, 3,640,878.
Clancy, David, 3,661,242.
Clancy, David, 3,678,649.
Costello, Christopher Hollet, 3,640,274.
Costello, Christopher Hollet, 3,644,707.
Dage, Richard, 3,692,906.
Denzler, Rudolph E.; and Fischer, Charles F., 3,667,919.
Douglas, Livingston C., 3,696,915.
Drukker, Alexander E., 3,699,099.
Falivene, Pasquale Joseph, 3,644,241.
Finck, Patricia A., 3,701,735.
Freedman, Jules; and Judd, Claude I., 3,637,747.
Freedman, Jules, 3,651,142.
Freedman, Jules, 3,692,796.
Freedman, Jules, 3,707,476.
Furgal, Henry P., 3,634,947.
Gerecht, John Fred, 3,637,682.
Gerecht, John Fred; and Wixon, Harold Eugene, 3,676,341.
Gerecht, John Fred, 3,679,611.
Grand, Paul S.; Falivene, Pasquale Joseph; and Furgal, Henry P., 3,698,095.
Grand, Paul Sheldon; and Becker, Joseph Gerald, 3,639,570.
Grand, Paul Sheldon; and Wixon, Harold Eugene, 3,703,480.
Gray, Frederick William, 3,640,874.
Gray, Frederick William, 3,655,567.
Gray, Frederick William, 3,696,041.
Gray, Frederick William, 3,706,670.
Hewitt, Gordon Trent, 3,642,977.
Hewitt, Gordon Trent; and Giordano, Annie Sue, 3,676,199.
Hewitt, Gordon Trent; and Giordano, Annie Sue, 3,696,034.
Hoefflin, Melvin W., 3,633,538.
Inamorato, Jack Thomas, 3,696,056.
Inamorato, Jack Thomas, 3,704,267.
Januszewski, Joseph Paul, 3,639,563.
Januszewski, Joseph Paul; and Bahouth, Tayseer George, 3,641,238.
Johnson, Wade A., 3,650,967.
Koceich, Mark J.; and Chirash, William, 3,702,826.
Ledgett, Lowell Ashton, 3,677,714.
Leidholdt, Fritz, 3,691,015.
Manahan, Roderick David; and Richter, Virgil John, 3,634,585.
Maniaci, Theodore, 3,642,556.
Marschner, Frank William, 3,705,855.
Maxwell, Milton, 3,697,754.
McGeary, George Jerome, 3,654,743.
McHugh, Neil Martin; Scheurman, Clarence, III; and Schulerud, Albert Lyle, 3,703,772.
Metzner, Irving L.; and O'Connell, Daniel C., 3,683,886.
Miles, Gilbert De Wayne, 3,696,919.
Mitchell, Harry Ian; and Tomlinson, Kenneth, 3,672,993.
Murphy, Lawrence J., 3,655,865.
Nalbach, John C., 3,662,872.
Natali, Remigio; and Giombini, Giuseppe, 3,687,853.
Olson, Frank Wesley, Jr.; and Roberts, Karl Hutchenson, 3,658,985.

- Olson, Frank Wesley, Jr.; and Roberts, Karl Hutchenson, 3,697,452.
- Pickin, John Harlan, 3,634,260.
- Renold, Adolph, 3,678,084.
- Robbins, Clarence R.; Grey, Seymour; and Scott, George V., 3,634,022.
- Rubinfeld, Joseph, 3,642,881.
- Simon, Jean Ellen, 3,674,135.
- Skorcz, Joseph A.; Suh, John T.; and Judd, Claude I., 3,635,964.
- Skorcz, Joseph A.; and Suh, John T., 3,651,079.
- Skorcz, Joseph A.; Suh, John T.; and Judd, Claude I., 3,657,238.
- Suh, John T., 3,632,628.
- Suh, John T., 3,636,218.
- Suh, John T., 3,651,068.
- Suh, John T.; and Schnettler, Richard A., 3,654,284.
- Suh, John T.; and Schnettler, Richard A., 3,655,671.
- Suh, John T.; and Schnettler, Richard A., 3,661,915.
- Suh, John T., 3,663,702.
- Suh, John T.; and Schnettler, Richard A., 3,665,006.
- Suh, John T., 3,682,967.
- Suh, John T.; and Bare, Thomas M., 3,700,692.
- Suh, John T., 3,704,237.
- Sundby, Bjorn; and Wixon, Harold Eugene, 3,697,423.
- Sundby, Bjorn; Kenney, Edward J.; and Wixon, Harold E., 3,700,607.
- Wixon, Harold Eugene; and Scott, George Vane, 3,639,234.
- Colgrove, Ronald B. Toy vehicle. 3,665,643, 5-30-72, Cl. 46-206.
- Colight Inc.: See—
Burgess, Dennis A., 3,652,158.
- Colijn, Johannes J. V.: See—
Tesch, Gunter Horst; and Colijn, Johannes J. V., 3,682,739.
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- Coll, Antonio Luis. 1-4-Substituted semicarbazides and methods of obtaining them. 3,654,269, 4-4-72, Cl. 260-240.
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- Coll-Palagos, Miguel, to Stauffer Chemical Company. Method for modifying electrically non-conductive surfaces for electroless plating. 3,632,704, 1-4-72, Cl. 264-49.
- Coll-Palagos, Miguel, to Stauffer Chemical Company. Chemical nickel plating baths. 3,667,972, 6-6-72, Cl. 106-1.000.
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- Collard, Allison C.: See—
Zisblatt, Jack K., 3,654,059.
- Collard, Jacques Roger; Narayan, Subrahmanyam Yegna; and Paczkowski, John Paul, to RCA Corporation. Semiconductor diode. 3,665,254, 5-23-72, Cl. 317-234.00r.
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- Collardin, Gerhard, GmbH: See—
Wagenknecht, Rudolf; Gotta, Hans; Spei, Brigitte; and Gottwald, Karl-Heinz, 3,681,148.
- Collart, Webber I.; and Galanis, Tom L., to Hubbell, Harvey, Incorporated. Optical position detector. 3,656,855, 4-18-72, Cl. 356-167.
- Collazuol, Mario: See—
Di Salvo, Salvatore; and Collazuol, Mario, 3,686,497.
- Colle, Jan E. F.: See—
Van Gysel, August B. M.; and Colle, Jan E. F., 3,637,793.
- Collec, Henri, to Aerazur Constructions Aeronautiques Societe Anonyme. Parachutes. 3,693,917, 9-26-72, Cl. 244-149.000.
- College Research Corporation: See—
Evans, Marvin; and Miller, David H., 3,658,482.
- Collet, Etienne. Calendering roll. 3,706,119, 12-19-72, Cl. 29-113.00r.
- Collet, Marc Norbert: See—
Pilato, Maurice J. M., 3,671,730.
- Collet, Peter Jacobus: See—
Barnard, Mark Carey Sedgwick; Bramley, Hugh Christopher; and Collet, Peter Jacobus, 3,650,317.
- Collet, Pierre Daniel; and Clero, Guy, to Eastman Kodak Company. Antistatic photographic compositions. 3,655,387, 4-11-72, Cl. 96-87.
- Collett, Charles H. Self-locking snap-on collar for oil well operations. 3,652,138, 3-28-72, Cl. 308-4.
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- Collette, Harold J.; and Grosser, Harry W. Snap trim molding. 3,707,061, 12-26-72, Cl. 52-288.000.
- Colletti, John B., to TRW Inc. Hydraulic controller including rotary valve. 3,707,167, 12-26-72, Cl. 137-625.20y.
- Colley, Rowan Herbert, to Rolls-Royce Limited. Gas turbine engine thrust deflectors. 3,691,771, 9-19-72, Cl. 60-226.00a.
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- Collez, Marie-Therese Elisabeth Lucie: See—
Collez, Louis, 3,651,664.
- Colliau, Frank. Reflective plastic coated trailer hitch ball. 3,679,234, 7-25-72, Cl. 280-511.000.
- Collie, Arthur A., to Kenwood Manufacturing (Working) Limited. Circuit for food mixer. 3,701,935, 10-31-72, Cl. 318-325.000.
- Collie, Stafford D., to Phillips Petroleum Company. Closure element. 3,648,917, 3-14-72, Cl. 229-7.
- Collie, Stafford D.; and Oliver, Ronald R., to Phillips Petroleum Company. Weight-opening dispenser. 3,658,217, 4-25-72, Cl. 222-463.
- Collier, Carroll Wayne. Process for manufacture of alumina hydrate. 3,666,411, 5-30-72, Cl. 23-143.
- Collier, Franck; Dauchy, Jean-Daniel; Le Sergeant, Christian; and Michon, Maurice, to Compagnie Generale d'Electricite. Liquid laser. 3,706,051, 12-12-72, Cl. 331-94.500.
- Collier, Frank J., to Illinois Tool Works Inc. Hole plug. 3,700,135, 10-24-72, Cl. 220-25.000.
- Collier, Geoffrey Lionel: See—
Buckley, Charles Harold; Collier, Geoffrey Lionel; and Mitchell, John, 3,660,130.
Buckley, Charles Harold; Mitchell, John; and Collier, Geoffrey Lionel, 3,690,906.
- Collier, Owen N.: See—
Casale, Mira E. A.; Collier, Owen N.; and Iles, Gerald S., 3,637,530.
- Collier, Robert W., to Stromberg-Carlson Corporation. Compact frequency selective ringer. 3,678,508, 7-18-72, Cl. 340-392.000.
- Collier, William A. H.: See—
Merriman, Horace B.; Collier, William A. H.; and Richardson, Barry A., 3,683,667.
- Collier, William W.; and Smith, Ronald M., to International Business Machines Corporation. Interactive tie-breaking system. 3,676,860, 7-11-72, Cl. 340-172.500.
- Collier-Keyworth Company: See—
Griggs, Clifton A., 3,656,728.
- Colligan, Frank S. Remote measuring transformer coupled impedance bridge for balanced and unbalanced circuits. 3,636,439, 1-18-72, Cl. 324-57.
- Collin, David Trevor, to Allen & Hanburys Limited. Process for the preparation of α^1 -tertiary butylaminomethyl-4-hydroxy-m-xylene- α^1, α^2 -diol. 3,642,896, 2-15-72, Cl. 260-570.6.
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- Collin, Gerd: See—
Buffleb, Herbert; Franck, Heinz-Gerhard; Oberkobusch, Rudolf; Turowski, Johannes; Collin, Gerd; and Zander, Maximilian, 3,655,802.
Buffleb, Herbert; Franck, Heinz-Gerhard; Turowski, Johannes; Collin, Gerd; and Zander, Maximilian, 3,704,331.
Franck, Heinz-Gerhard; Oberkobusch, Rudolf; Turowski, Johannes; Collin, Gerd; Zander, Maximilian; Erunlu, Recep Kemalettin; Storch, Gunter; Buffleb, Herbert; and Sauerland, Hans-Dieter, 3,636,178.
Wegener, Otto; Oberkobusch, Rudolf; Collin, Gerd; Zander, Maximilian; and Buffleb, Herbert, 3,654,135.
- Collin, Heinrich, to Kanas Maffei Aktiengesellschaft. Plastifying apparatus. 3,705,778, 12-12-72, Cl. 425-224.000.
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- Colling, David A., to Westinghouse Electric Corporation. High initial permeability Fe-48Ni product and process for manufacturing same. 3,657,026, 4-18-72, Cl. 148-120.
- Colling, Philip M.: See—

- Dean, Johnny C.; and Colling, Philip M., 3,686,347.
 Colling, Ronald L.; and Trenne, Myron U., to General Electric Corporation. Electronic push button sequencer. 3,702,424, 11-7-72, Cl. 317-140.000.
 Colling, Ronald L.; and Trenne, Myron U., to General Motors Corporation. Automatic re-engage circuit for an electronic speed control system. 3,705,639, 12-12-72, Cl. 180-105.000.
 Collings, Lawrence V.: See—
 Bucaram, Salim M.; and Collings, Lawrence V., 3,640,824.
 Collings, Rupert H., to United States of America, Navy. Current sheet antenna. 3,680,136, 7-25-72, Cl. 343-746.000.
 Collings, William G.; Cianciarulo, Anthony N.; and Shen, Kwan-Tin, to Ciba Corporation. Composition of a liquid epoxy resin, a polyhydroxyl material and a hardener. 3,687,894, 8-29-72, Cl. 260-47.000.
 Collingwood, George Howard: See—
 Winckhofer, Robert Charles; Weedon, Gene Clyde; and Collingwood, George Howard, 3,673,295.
 Collins & Aikman Corporation: See—
 Barwick, Frederick E., III; Smith, Vernon C.; McCullough, Robert W.; and Hobgood, James B., 3,650,663.
 Bauer, Jackson, 3,650,867.
 Bauer, Jackson, 3,666,595.
 Hayes, John T.; and Currier, Robert G., 3,670,504.
 Kerner, Herman J.; and Cresswell, John H., 3,631,900.
 McCullough, Robert W.; Smith, Vernon C.; Barwick, Frederick E., III; and Hobgood, James B., 3,644,080.
 McCullough, Robert W., 3,644,136.
 Smith, Vernon C.; Hobgood, James Barnette; and Barwick, Frederick E., III, 3,644,079.
 Collins, Arthur A., to Collins Radio Company. Digital products inspection system. 3,651,315, 3-21-72, Cl. 235-151.31.
 Collins, Arthur A.; Hill, John D., III; and Hungerford, Laurence D., to Collins Radio Company. Multichannel communication system. 3,659,271, 4-25-72, Cl. 340-172.500.
 Collins, Arthur A.; and Henry, Wesley B., to Collins Radio Company. Method of program execution. 3,662,401, 5-9-72, Cl. 444-1.
 Collins, Arthur A.; and Hill, John Dan, III, to Collins Radio Company. Data exchange and coupling apparatus. 3,692,941, 9-19-72, Cl. 179-15.000.
 Collins, Bernard, to Collins, Bernard, Limited. Conveyors. 3,672,488, 6-27-72, Cl. 198-189.000.
 Collins, Bernard, Limited: See—
 Collins, Bernard, 3,672,488.
 Collins, Catherine A., to Lee, Raymond, Organization, Inc., The. Bathroom (household) accessory. 3,704,776, 12-9-72, Cl. 206-1.000.
 Collins, David A.: See—
 Clawson, Arthur R.; Davis, Neil M.; Wieder, Harry H.; and Collins, David A., 3,671,102.
 Collins, David Janett.: See—
 Kapsambelis, Christos Basil; and Collins, David Janett., 3,673,389.
 Collins, David R. Corner construction for aquarium or the like. 3,677,433, 7-18-72, Cl. 220-4.000.
 Collins, Earl R., Jr.: See—
 United States of America, National Aeronautics and Space Administration, 3,637,051.
 Collins, Edward C.; and Hittle, Eugene C., to Sears, Roebuck and Co. Under-cabinet radio. 3,698,780, 10-17-72, Cl. 312-245.000.
 Collins, Edward, IV: See—
 Bauman, Weldon W.; and Collins, Edward, IV, 3,705,358.
 Collins, Fred R.: See—
 Rawlins, Charles B.; and Collins, Fred R., 3,659,034.
 Collins, Glenn E.: See—
 Fowlkes, George V.; Collins, Glenn E.; and McCormack, Darrell W., 3,641,962.
 Collins, Harold B.: See—
 Lewis, J. Stephen; Collins, Harold B.; Sapkus, Jurgis; and Vilanueva, Juanito O., 3,693,288.
 Collins, Henry R., Jr., to Phillips Petroleum Company. Reaction control and sampling apparatus. 3,656,349, 4-18-72, Cl. 73-421.
 Collins, Howard W., to Integrated Building Industry, Inc. Method and apparatus for continuously making truss elements. 3,641,303, 2-8-72, Cl. 219-56.
 Collins, James D.: See—
 Immel, Ralph B.; and Collins, James D., 3,685,049.
 Wiladon, Thomas A.; and Collins, James D., 3,659,237.
 Collins, James D., to General Motors Corporation. Process for forming titanium. 3,653,250, 4-4-72, Cl. 72-364.
 Collins, James D.; and Wiladon, Thomas A., to Westinghouse Electric Corporation. Contactor. 3,673,525, 6-27-72, Cl. 335-132.000.
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 Collins, James W., Sr. Teaching aid. 3,674,905, 7-4-72, Cl. 35-35.000.
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 Collins, John Joseph, to Union Carbide Corporation. Purification of liquid hydrocarbons containing carbonyl sulfide. 3,654,144, 4-4-72, Cl. 208-245.
 Collins, Joseph C., to Sterling Drug, Inc. Bis(3,3-dichloro-2-oxo-polymethyleneimines). 3,647,782, 3-7-72, Cl. 260-239.3.
 Collins, Joseph John, to Union Carbide Corporation. Adsorption process for water and nitrogen oxides. 3,674,429, 7-4-72, Cl. 23-159.000.
 Collins, Larry C.: See—
 Ulm, Ralph E.; Phillips, Claude F.; Sullivan, Michael J.; Collins, Larry C.; and Parrent, William Russell, 3,666,381.
 Collins, Leslie C., to Eastern Rotorcraft Corporation. Cable load indicator. 3,683,355, 8-8-72, Cl. 340-272.000.
 Collins Machinery Corporation: See—
 Behnke, Howard N., 3,662,414.
 Collins, Michael H., to Shell Oil Company. Short term peak shaving of natural gas. 3,661,542, 5-9-72, Cl. 48-191.
 Collins, Neil E.; Kerber, Elwyn W.; and Neville, Raymond R., to General Electric Company. Solid state lamp assembly. 3,676,668, 7-11-72, Cl. 240-103.000.
 Collins, Neil E.; and Halt, Ira E., to General Electric Company. Ohmic contact for group III-V P-types semiconductors. 3,684,930, 8-15-72, Cl. 317-234.000.
 Collins Radio Company: See—
 Anderson, Dean T., 3,633,112.
 Bercovitz, Nathaniel, Jr., 3,659,196.
 Bergemann, Gerald T.; and Dulaney, Ernest N., 3,639,703.
 Bise, Donald L., 3,633,133.
 Briggs, Barry D., 3,693,112.
 Brown, Elvin E., 3,663,931.
 Bruene, Warren B., 3,701,034.
 Bullinga, Johannes, 3,660,751.
 Burke, Jack J.; and Guillot, Joseph M., Jr., 3,698,621.
 Byers, Charles A.; and Becker, Robert A., 3,639,821.
 Campbell, Melvin L., 3,665,353.
 Centala, John P., 3,638,099.
 Centala, John P.; and Lane, Royce W., 3,638,100.
 Collins, Arthur A., 3,651,315.
 Collins, Arthur A.; Hill, John D., III; and Hungerford, Laurence D., 3,659,271.
 Collins, Arthur A.; and Henry, Wesley B., 3,662,401.
 Collins, Arthur A.; and Hill, John Dan, III, 3,692,941.
 Connant, Paul L., Sr., 3,646,367.
 Cory, Terry S.; and Kennedy, William A., 3,683,390.
 Cory, Terry S.; and Markley, Roger A., 3,696,430.
 Cory, Terry S.; and Markley, Roger A., 3,697,999.
 Cox, Ronald E., 3,654,597.
 Daebler, Donald H., 3,693,229.
 Elliott, William S., 3,662,290.
 Escoffier, Raymond P.; and Watson, Milton R., 3,639,740.
 Faustlin, James L.; and Saenz, Eliseo, 3,697,893.
 Frazier, Melvin A., 3,697,861.
 Gregorich, James M., 3,659,185.
 Griffin, Ronald G., 3,636,450.
 Haerther, Lester W.; and Earley, Joseph J., 3,637,958.
 Hallford, Ben R.; and Bach, Carl E., 3,638,148.
 Hallford, Ben R., 3,659,206.
 Hallford, Ben R., 3,659,233.
 Hallford, Ben R., 3,678,414.
 Hallford, Ben R., 3,678,433.
 Heidt, Marvin W., 3,703,679.
 Hemmer, William R., 3,665,470.
 Hill, John Dan, III, 3,681,759.
 Hostetter, John L., 3,641,972.
 Huntsinger, Dean P., 3,680,097.
 Huntsinger, Dean P., 3,699,461.
 Iliff, Walter R.; Holt, John M.; Chadima, George E.; and Brown, Robert G., 3,699,324.
 Kammerer, Leo P., 3,638,092.
 Keese, David F., 3,651,469.
 Kemper, Arthur L.; and Balicklock, Raymond R., 3,696,428.
 LaSharma, Roshan, 3,703,006.
 Leuck, Carl A.; and Schindelbeck, Fritz H., 3,665,358.
 Lundgreen, Michael W.; and Denniston, Rollin H., 3,641,572.
 Lundgreen, Michael W., 3,651,345.
 Martin, Kenneth G.; and Seufferer, Paul A., 3,701,936.
 McAllister, Lewis L.; and Popek, Wencil D., 3,668,750.
 Melvin, William J., 3,675,129.
 Melvin, William J., 3,676,654.
 Neal, Gordon L., 3,648,031.
 Northrup, Malcolm B., 3,692,956.
 Perry, James R., Jr., 3,668,534.
 Peterson, Max E., 3,665,323.
 Peterson, Wesley D.; and Southworth, Donovan A., 3,699,483.
 Ragan, Lawrence H.; and Pratt, Charles R., 3,678,417.
 Rorick, William G.; and Lewis, Herbert O., 3,670,693.
 Rutherford, Kenneth R.; and Strathman, Lyle R., 3,638,192.
 Rutherford, Kenneth R.; Hooker, Marvin L., Jr.; and Alibrandi, Joseph P., 3,671,866.
 Rutherford, Kenneth R.; and Strebe, Arthur C., 3,680,091.

- Sellers, Glenn W.; and Carroll, Richard W., 3,659,116.
 Sielaff, Ernst A., 3,706,136.
 Sitz, Tilbert C., 3,700,180.
 Stoffer, C. Daniel W., 3,668,542.
 Stover, Harris A., 3,638,135.
 Stover, Harris A., 3,665,380.
 White, Kenneth H., 3,705,530.
 Williams, Winston F., 3,698,516.
 Collins, Reginald, to Omal Group Limited. Cartridge for sheet feeding arrangements. 3,635,334, 1-18-72, Cl. 206-57.
 Collins, Richard D.: See—
 Dill, Harry L.; and Collins, Richard D., 3,640,243.
 Collins, Robert A. Method and means for boring earth. 3,685,596, 8-22-72, Cl. 175-57.000.
 Collins, Robert K., Jr.: See—
 Nichols, Hal C.; Irwin, Sibley R.; and Collins, Robert K., Jr., 3,680,479.
 Collins, Ronald B. Rope flipping racing game. 3,643,947, 2-22-72, Cl. 273-86.
 Collins, Ronald J., to Bio Data, Inc. Selective frequency stethoscope structure. 3,690,404, 9-12-72, Cl. 181-24.000.
 Collins, Roy T.J., to British Aircraft Corporation Limited. Escape devices for aircraft. 3,633,853, 1-11-72, Cl. 244-137.
 Collins, Stanley Hoover, to Canadian Patents and Development Limited. Production of a modified orthophotograph. 3,663,103, 5-16-72, Cl. 355-22.000.
 Collins, Stephen Richard: See—
 Miner, William Wiley; Scholer, Henry Gardner; and Collins, Stephen Richard, 3,683,796.
 Collins, Stuart A., Jr.: See—
 Toth, Louis S.; and Collins, Stuart A., Jr., 3,664,723.
 Collins, Thomas E.: See—
 Lee, John H.; and Collins, Thomas E., 3,662,371.
 Collins, Thomas Robert Stephen: See—
 Garner, Paul Johnson; and Collins, Thomas Robert Stephen, 3,638,299.
 Collins, William A.: See—
 United States of America, National Aeronautics and Space Administration, 3,662,973.
 Collins, William J. Device and method for sampling molten metal. 3,656,338, 4-18-72, Cl. 73-17.
 Collins, William J. Device and method for sampling molten metal. 3,656,346, 4-18-72, Cl. 73-354.
 Collins, William J. Device and method for sampling molten metal. 3,656,347, 4-18-72, Cl. 73-354.
 Collins, William J. Device for sampling molten metal. 3,656,350, 4-18-72, Cl. 73-425.4.
 Collins, William J. Device for sampling molten metal. 3,693,449, 9-26-72, Cl. 73-354.000.
 Collinson, Alfred Edward: See—
 Betts, Colin; and Collinson, Alfred Edward, 3,678,963.
 Collis, Ronald T. H., to Stanford Research Institute. Method and system for detecting clear air turbulence. 3,696,670, 10-10-72, Cl. 73-170.000.
 Collister, Frank C. Key bolt. 3,673,910, 7-4-72, Cl. 85-3.000.
 Collier, Robert A., to Scott Engineering, Inc. Post-mounted winged insulator arm assembly. 3,643,009, 2-15-72, Cl. 174-149.
 Colliver, David John; and Hilsom, Cyril, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's, Government of the. Transferred electron devices. 3,673,469, 6-27-72, Cl. 317-234.000.
 Colman, Joel, to Thiokol Chemical Corporation. Apparatus for packing a nonfluent composition. 3,706,257, 12-19-72, Cl. 86-20.000.
 Colln, Reimer, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of N-(4-chlorophenyl thiomethyl)-phthalimide. 3,687,974, 8-29-72, Cl. 260-326.000.
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 Collura, Peter C.; and Pintsak, William P., to Container Corporation of America. Display carton having structure for product support therein. 3,659,704, 5-2-72, Cl. 206-45.14.
 Collura, Peter C.; and Pintsak, William P., to Container Corporation of America. Reducible flip top box. 3,680,766, 8-1-72, Cl. 229-51.000.
 Colman, Benjamin W.: See—
 Hocking, Loren P.; and Lotti, Louis B., 3,691,522.
 Hocking, Loren P.; and Lotti, Louis B., 3,697,942.
 Truesdell, Robert E., 3,656,790.
 Truesdell, Robert E., 3,656,791.
 Colman, Michael E.; and Stearns, Charles F., to United Aircraft Corporation. Engine compressor bleed control system. 3,646,753, 3-7-72, Cl. 60-39.27.
 Colman, Robert, to General Alarm Corporation. Window security system. 3,634,845, 1-11-72, Cl. 340-274.
 Colman, Robert, to General Alarm Corporation. Telephoning system. 3,700,813, 10-24-72, Cl. 179-5.000.
 Colobert, Louis: See—
 Buissiere, Jean; Colobert, Louis; and Montagnon, Paul A. F., 3,690,836.
 Colomb, Lucas A.; and Levine, Harold A., to International Business Machines Corporation. Etchant and process for etching thin metal films. 3,639,185, 2-1-72, Cl. 156-13.
 Colomb, Lucas A.; and Levine, Harold A., to International Business Machines Corporation. Positive photoresists for projection exposure. 3,666,473, 5-30-72, Cl. 96-91.000.
 Colomb, Henry Octave, Jr.: See—
 Pilato, Louis Anthony; and Colomb, Henry Octave, Jr., 3,645,959.
 Colomb, Henry Octave, Jr.; Trecker, David J.; and Brotherton, Thomas Kemper, to Union Carbide Corporation. Radiation cross-linked dinorbornene polymers. 3,658,669, 4-25-72, Cl. 204-159.12.
 Colomb, Louis F.: See—
 Neuman, Marcel L.; and Colomb, Louis F., 3,685,116.
 Colomb, Marc, to Omega Louis Brandt & Frere S.A. Corrector mechanism for day-and-date-watch. 3,662,534, 5-16-72, Cl. 58-58.
 Colombini, Ariano: See—
 Colombo, Umberto; Sironi, Giuseppe; Viviani, Bruno; and Colombini, Ariano, 3,649,245.
 Colombini, Ariano; Viviani, Bruno; Massimino, Antonio; and Sironi, Giuseppe. Process for the preparation of arsenic-free copper cement from arsenical acid solutions. 3,684,492, 8-15-72, Cl. 75-109.000.
 Colombo, Arturo, to Sitam Societa Industriale Telai Automatici Milano. Device for automatically changing the loom cops. 3,683,972, 8-15-72, Cl. 139-243.000.
 Colombo, Edward A.: See—
 Tinger, Harold G.; and Colombo, Edward A., 3,694,524.
 Colombo, Ernesto: See—
 Massella, Mario; and Colombo, Ernesto, 3,665,621.
 Colombo, Luigi: See—
 Pasquino, Pietro; Benzoni, Luigi; Carnisio, Giuseppe; and Colombo, Luigi, 3,697,578.
 Colombo, Paolo: See—
 Calcagno, Benedetto; Colombo, Paolo; and Livraghi, Giovanni, 3,707,530.
 Colombo, Piero. Method for cooling the cast strand in curved-guide continuous casting plants. 3,656,536, 4-18-72, Cl. 164-89.
 Colombo, Piero. Apparatus for reciprocating continuous casting molds by means of flexible drawing members. 3,667,536, 6-6-72, Cl. 164-260.000.
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 Colon-Morales, Miguel Angel. Uterine displacement device. 3,669,118, 6-13-72, Cl. 128-361.000.
 Colonial Carbon Company: See—
 Zitzler, Earl W.; and Ideboen, John, 3,704,195.
 Colonial Sugar Refining Company Limited, The: See—
 Chapman, Martin Wykeham, 3,635,336.
 Frew, Ronald, 3,702,527.
 Colony, Joe A.: See—
 Schutt, John B.; Colony, Joe A.; and Lepp, Donald R., 3,639,250.
 Coloprisco, Frank: See—
 Fishman, Murray, 3,691,118.
 Color Systems, Inc.: See—
 Ladd, Fred; and Song, Jung Hoon, 3,705,762.
 Colorado Business Development Corporation, mesne: See—
 Whitney, Charles D., 3,675,576.
 Colorado Instruments, Inc.: See—
 Webb, Richard C.; and Heath, Robert T., 3,701,885.
 Colorado Leisure Products, Inc.: See—
 Bargman, Dale L., Jr., 3,640,502.
 Bargman, Dale L., Jr., 3,689,029.
 Colorado Manufacturing Corporation: See—
 DeMeyer, Roy W., 3,701,284.
 Colorado State University Research Foundation: See—
 Klenholz, Eldon W., 3,639,584.
 Lumb, William V.; and Brasmer, Timothy H., 3,648,691.
 Story, Albert G., 3,675,769.
 Colorado Technologists Incorporated: See—
 White, Michael W., Jr.; and Plamondon, Jacques A., 3,703,166.
 Colorado Video, Incorporated: See—
 Southworth, Glen R., 3,683,111.
 Colorant Schmuckstein GmbH: See—
 Elbe, Maximo, 3,665,729.

- Colorforms: *See*—
Birnkrant, Melvin, 3,673,909.
Birnkrant, Melvyn, 3,707,290.
- Colortex S.A.: *See*—
Risse, Jean, 3,692,427.
- Colosimo, Samuel R. Four-track vehicle. 3,690,396, 9-12-72, Cl. 180-92.00r.
- Colosky, George V., to Avi-Simplot, Inc. Keel bone extractor for poultry products. 3,665,553, 5-30-72, Cl. 17-11.
- Colpaert, James J.: *See*—
Burnett, Richard T.; and Colpaert, James J., 3,701,400.
- Colsmann & Kirschner: *See*—
Schroder, Hermann; and Biedron, Ralf, 3,659,303.
- Colson, George P., to Engineering Field Services. Laser vertical collimator. 3,635,565, 1-18-72, Cl. 356-153.
- Colson, Georges: *See*—
Birr, Jacques; Colson, Georges; Abel, Bernard; and Charbonnier, Patrice, 3,639,178.
- Colson, James Guilbert, to Du Pont de Nemours, E. I., and Company. Polybenzimidazolecarboxamides and process. 3,640,956, 2-8-72, Cl. 260-47.
- Colson, William B.: *See*—
Goodrich, George W.; Colson, William B.; and Matle, Calvin C., 3,700,947.
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- Colston, John Ronald, to CGR Medical Corporation, mesne. Pneumatic power assist apparatus for spot film device. 3,707,629, 12-26-72, Cl. 250-58.000.
- Colt Industries Operating Corporation: *See*—
Bell, Oliver A., Jr., 3,705,969.
- Colt Industries Operating Corporation, mesne: *See*—
Kennedy, Ralph C.; La Violette, Paul A.; and Stromberg, Henry M., 3,670,442.
- Kennedy, Ralph C.; and Torning, Ralph R., 3,696,543.
- Lewis, Karl R., 3,701,213.
- Mello, William R.; and Warren, James A., 3,678,572.
- Colt, James G.: *See*—
Anthony, Peter C.; Colt, James G.; and Fournarakis, Solon, 3,663,984.
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- Coltex, S.L.: *See*—
Cama, Gerardo, 3,675,666.
- Coltman, Harvey D.: *See*—
James, David W. F.; Spiller, David O.; and Coltman, Ha vey D., 3,691,053.
- Colton, Douglas Roy; and Kriegler, Rudolph John, to Northern Electric Company Limited. Method of reducing the mobile ion contamination in thermally grown silicon dioxide. 3,692,571, 9-19-72, Cl. 117-201.000.
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- Colton, Russell F.: *See*—
Joy, Robert D.; and Colton, Russell F., 3,680,375.
- Coltrinari, Enzo L.; and Kindig, James K., to Molybdenum Corporation of America. Two-stage countercurrent leaching process for the recovery of phosphates, yttrium and rare earth values. 3,647,361, 3-7-72, Cl. 23-18.
- Coltron Industries, Inc.: *See*—
Leitner, Frank W.; and Miller, Clayton O., 3,666,922.
- Colts Inc.: *See*—
Curtis, George F.; and Tatro, Henry J., Jr., 3,688,641.
- Domian, Robert E.; and Laviolette, Paul A., 3,665,631.
- Roy, Robert E., 3,682,040.
- Zaid, Melvin; Soifer, Martin T.; Darigo, Julius; and Robinson, Russell S., 3,680,485.
- Colucci, Donald E. Personal hygiene device. 3,662,407, 5-16-72, Cl. 4-7.
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- Columbia Belford Inc.: *See*—
Goodman, Martin M., 3,698,036.
- Columbia Broadcasting System, Inc.: *See*—
Allen, Richard G.; Bauer, Benjamin B.; and Torick, Emil L., 3,661,224.
- Allen, Richard G.; and Torick, Emil, 3,668,322.
- Cameron, Ewen, 3,664,738.
- Evans, Chauncey R., 3,637,913.
- Evans, Chauncey R., 3,651,242.
- Evans, Chauncey R., 3,663,735.
- Fender, Clarence L., 3,686,993.
- Friedman, Jerrold; and Walker, Robert, 3,663,083.
- Gabor, Dennis, 3,676,732.
- Glenn, William Ellis, 3,694,687.
- Goldberg, Abraham A.; and McMann, Renville H., Jr., 3,655,908.
- Goldman, David A.; and Oppenheimer, Henry N., 3,676,850.
- Goldmark, Peter C.; and Hollywood, John M., 3,678,181.
- Goldmark, Peter C., 3,679,817.
- Grosso, Patrick F.; and Heck, Raymond F., 3,672,931.
- McMann, Renville H., Jr.; and Ridley, Donald W., 3,634,623.
- Moeser, Alan J., 3,698,128.
- Nicholls, William C., 3,681,524.
- Owen, Thomas P., 3,702,444.
- Ridley, Donald W., 3,632,872.
- Rubio, Alfred M., 3,701,834.
- Sharp, Paul H., 3,695,385.
- Thompson, Josephus B., 3,635,119.
- Vicik, Frederick, 3,667,360.
- Zilius, Tadas, 3,696,549.
- Zilius, Tadas; and Simboli, Joseph, 3,702,191.
- Columbia Controls Research Corporation: *See*—
Vaccaro, Angelo, 3,654,435.
- Vaccaro, Angelo, 3,669,543.
- Vaccaro, Angelo; and Dixon, Harold F. E., 3,676,644.
- Columbia Fabricators, Inc.: *See*—
Scott, Ralph K., 3,689,626.
- Columbia Gas System Service Corporation: *See*—
Davis, James A.; Talbert, Sherwood G.; Hazard, Herbert R.; and Gibeau, William A., 3,663,203.
- Eberle, Arthur C.; and Darby, Lee H., 3,671,815.
- Morse, William F.; and Reid, Edward A., Jr., 3,633,562.
- Morse, William F.; and Reid, Edward A., Jr., 3,635,648.
- Reid, Edward A., Jr., 3,635,644.
- Reid, Edward A., Jr., 3,671,174.
- Singh, Kanwal N.; Cremean, Stephen P.; and Scott, Donald R., 3,672,442.
- Teague, Walter Dorwin, Jr.; Montalbano, Anthony Philip; Oakes, Andrew A.; Osborne, Keith; and Susey, Peter E., 3,668,784.
- Van Dyke, John; and Milliron, Albert R., 3,633,416.
- Welch, Robert W., Jr.; Bolton, George H.; Oliver, John P.; and Wedel, Alfred W. (said Welch and said Bolton assors. to), 3,658,366.
- Columbia Gas System Service Corporation, mesne: *See*—
Hughes, George C., 3,691,831.
- Columbia Machine, Inc.: *See*—
Koyama, Magame, 3,662,438.
- Columbia Manufacturing Co., Inc., The: *See*—
Clarke, Robert A., 3,667,713.
- Columbia Research Corporation: *See*—
Murray, Russell; and Gignoux, Dominique, 3,700,909.
- Columbia Research Laboratories, Inc.: *See*—
Alibert, Vernon F., 3,682,161.
- Columbia Ribbon and Carbon Manufacturing Co., Inc.: *See*—
De Laurentis, Peter; and Newman, Douglas A., 3,695,912.
- Newman, Douglas A., 3,632,376.
- Newman, Douglas A., 3,634,120.
- Newman, Douglas A.; and Knabe, Herbert, 3,637,414.
- Newman, Douglas A., 3,647,502.
- Newman, Douglas A.; Vogel, Alfred M.; and Brown, Albert E., 3,658,567.
- Newman, Douglas A., 3,663,289.
- Newman, Douglas A., 3,684,550.
- Newman, Douglas A., 3,697,677.
- Scott, Michael A., 3,689,301.
- Columbia Ribbon and Carbon Manufacturing Co., Inc. *See*—
Newman, Douglas A.; and Schlotzhauer, Allan T., 3,669,713.
- Columbian Carbon Company: *See*—
Hawkins, John J.; Storrs, Charles D.; and Zimmerman, Stanley D., 3,661,882.
- Topcik, Barry, 3,687,893.
- Columbian Steel Tank Company: *See*—
Tomlinson, William H., 3,707,249.
- Columbus Auto Parts Company, The: *See*—
Andrew, John R., 3,638,976.
- Columbus Electric Manufacturing Co.: *See*—
Bowen, John W.; and Perkins, Donald D., 3,683,144.
- McCloskey, Fenimore G.; and Jordan, William Robert, 3,675,166.
- Columbus McKinnon Corporation: *See*—
Hawkins, Harold V.; Dick, Ralph A.; and Bongort, Edgar A., 3,654,415.
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- Columware, Inc.: *See*—
Teige, William, 3,648,904.
- Colutron Corporation: *See*—
Wahlin, Lars E., 3,649,862.
- Colvert James H.: *See*—
O'Keefe, William H.; Colvert James H.; Nelson, Gerald V.; and Youngblood, Douglas J., 3,668,114.
- Colvin, Alex D.; McNitt, David H.; and Turner, Allen H., to Ford Motor Company. Method for increasing the output of an electron accelerator. 3,679,930, 7-25-72, Cl. 315-21.00r.
- Colvin, James R.: *See*—
Ryan, Donald J.; Ledet, Winston P.; and Colvin, James R., 3,656,619.
- Colvis, Arthur Louis: *See*—
McLaughlin, Bernard John; and Colvis, Arthur Louis, 3,650,025.
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Tapp, James S.; Colwell, Robert E.; and Toney, Myron K., 3,661,864.
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McCay, Thomas E., 3,689,702.
- Coman, William E., to Bendix Corporation, The. Electrical demand priority circuit. 3,641,392, 2-8-72, Cl. 317-13.
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- Comber, James D. Lock switch and security system for motor vehicle electrical circuits. 3,697,945, 10-10-72, Cl. 340-64.000.
- Combes, Robert P., to Societe Pour Le Developpement de la Recherche Appliquee. Device for controlling displacement of an element. 3,704,855, 12-5-72, Cl. 251-63.400.
- Combet, Andre: *See*—
Bargain, Michel; Combet, Andre; and Grosjean, Pierre, 3,658,764.
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Van Der Veen, Romke; and Griffioen, Albert, 3,683,632.
- Combinatie Westerschelde v.o.f.: *See*—
Griffioen, Albert; Hofmeijer, Jan; Van Milligen, Paul Cornelis; Tonnisen, Jorm Yding; and Van Zanten, Jacobus Martinus, 3,665,718.
- Combined Paper Mills, Inc.: *See*—
Fischer, Raymond P.; and Whalen, John F., 3,663,269.
- Spearin, Walter E.; and Vanderhei, Harold S., 3,676,184.
- Combaitainer S.A.: *See*—
Lindqvist, Karl Sigvard, 3,677,199.
- Combridge Thermionic Corporation: *See*—
Irons, Fred H., 3,697,900.
- Combs, Donald Earle, to Bell Telephone Laboratories, Incorporated. Pulse-width modulated DC to DC converter with zero percent duty cycle capability. 3,701,937, 10-31-72, Cl. 321-2.000.
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- Combs, Eugene E.: *See*—
Doede, Clinton M.; and Combs, Eugene E., 3,669,719.
- Combs, Jimmy Paul, to Motorola, Inc. Chassis and monitoring arrangement for electrical apparatus. 3,667,045, 5-30-72, Cl. 325-15.000.
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Gray, Theodore F., Jr.; Weaver, James C.; and Combs, Robert L., 3,639,424.
- Meyer, Max F., Jr.; Combs, Robert L.; and Wooten, Willis C., Jr., 3,701,741.
- Combs, Robert L.; and Bogan, Richard T., to Eastman Kodak Company. Blend containing at least a cellulose ester and a block copolymer elastomer. 3,668,157, 6-6-72, Cl. 260-13.000.
- Combs, Van P., to Mega Power Corporation. Electrical coil having integrated capacitance and inductance. 3,638,155, 1-25-72, Cl. 336-69.
- Combustion Control Devices, mesne: *See*—
Misarek, Joseph; and Jaxheimer, William W., 3,668,839.
- Combustion Engineering, Inc.: *See*—
Anthony, Andrew J.; Gaines, Albert L.; and Krawiec, Donald M., 3,674,635.
- Barber, Edgar A., 3,650,436.
- Bevilacqua, Frank; and Runde, Herbert A., 3,656,074.
- Bordonaro, Michael P., 3,652,912.
- Burrus, Bill S.; and Rosso, John B., 3,654,458.
- Burrus, Bill S., 3,673,850.
- Calvin, John N., 3,663,367.
- Chayes, Norman C., 3,651,788.
- Conner, James M., 3,634,981.
- Crate, John J., 3,637,096.
- Desbois, Gerard P., 3,687,805.
- Deve, Vagn, 3,685,165.
- Diwinsky, Gordon A.; and Kosky, Richard P., 3,664,922.
- Felice, Frank T.; Fisher, Robert E.; and Jacobs, Louis J., 3,637,412.
- Fernandes, John Henry, 3,702,242.
- Fisher, Robert E., 3,649,313.
- Fogman, Carl Bertil; Nelson, Hugh Wharton; and Tsao, Utah (said Nelson assor. to), 3,650,888.
- Fogman, Carl Bertil; Nelson, Hugh Wharton; and Tsao, Utah (said Nelson assor. to said), 3,650,889.
- Frey, Donald J.; and Opp, Warren P., 3,697,229.
- Gaines, Albert L., 3,686,071.
- Garrett, Sheyrl W., 3,643,507.
- Garrett, Sheyrl W., 3,683,189.
- Garrett, Sheyrl W., 3,688,573.
- Groves, Malcolm D., 3,698,756.
- Hurst, Kenneth; and Linz, Charles W., 3,631,555.
- Jonakin, James; and Plumley, Arthur L., 3,637,347.
- Kendrick, Gary R., 3,641,819.
- Ketchum, Elmer, Jr., 3,700,173.
- Klausing, Melvin H., 3,676,935.
- Klumb, Ralph H., 3,669,834.
- Krawiec, Donald M., 3,664,924.
- Liebig, Preston D.; and Hurlbut, William B., Sr., 3,696,589.
- Mail, Isaac Paul, 3,631,983.
- Makuch, John A., 3,693,557.
- Mullen, Joseph F., 3,640,232.
- Oliver, Richard M., 3,635,073.
- Owens, Vincent P.; and Prohazka, George J., 3,703,919.
- Penfield, Scott R., Jr., 3,706,301.
- Rickard, Earl K., 3,687,613.
- Roberts, James C., Jr., 3,644,976.
- Romanos, Nicholas D., 3,653,363.
- Romanos, Nicholas D., 3,661,123.
- Rosso, John B., 3,691,408.
- Round, Byron J.; and Stalph, Gunter J., 3,631,587.
- Savor, Dennis E., 3,654,373.
- Smith, Donald A., 3,666,183.
- Stalph, Gunter J., 3,659,879.
- Steeves, Linda A., 3,652,898.
- Suhs, Gerhard W., 3,645,238.
- Sullivan, Robert P.; and McClain, John N., 3,644,978.
- Tuppeny, William H., Jr., 3,685,547.
- Vigus, Cebon T., 3,675,915.
- Yario, William R., 3,663,218.
- Zmola, Paul C., 3,683,866.
- Combustion Equipment Associates, Inc.: *See*—
Davis, Robert, 3,700,411.
- Gleason, Thomas G., 3,673,769.
- Combustion Power Company, Inc.: *See*—
Smith, Richard D.; and Furlong, Dale A., 3,654,705.
- Smith, Richard D.; and Furlong, Dale A., 3,672,341.
- Smith, Richard D.; and Furlong, Dale A., 3,696,795.
- Combustion Unlimited, Incorporated: *See*—
Straitz, John F., III, 3,685,534.
- Straitz, John F., III, 3,703,349.
- Comco Supply, Inc.: *See*—
Lambert, Arthur H., 3,685,209.
- Weightman, Herbert G., 3,638,839.
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- Comeau, Raymond J. Spot welding tool. 3,679,859, 7-25-72, Cl. 219-90.000.
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- Comer, Horace E.: See—
- Pollack, Russell G.; and Comer, Horace E., 3,660,934.
- Comerford, John M., to Personal Products Company. Absorbent product comprising a fluid impervious barrier of a repellent tissue and a hydrocolloid. 3,683,917, 8-15-72, Cl. 128-287.000.
- Comers, Robert C.: See—
- Pickett, Charles G.; Lang, Robert A.; and Comers, Robert C., 3,677,866.
- Comet Industries, Inc.: See—
- Kostur, Robert E.; and Brown, Robert J., 3,671,161.
- Kostur, Robert E., 3,692,288.
- Kostur, Robert E., 3,704,974.
- Comet Model Hobbycraft Corporation: See—
- Conover, Lawrence H., 3,633,306.
- Cometti, Andre; Fouché, Jean; and Le Goff, Yves, to Rhone-Poulenc S.A. Azaborolidine compounds. 3,696,103, 10-3-72, Cl. 260-268.00r.
- Comfax Communications Industries, Inc.: See—
- Reader, Malcolm; Tregay, John L.; and Stern, Charles, 3,647,955.
- Comfax Communications Industries, Inc., mesne: See—
- Jacob, Gerald W.; Mogul, Eugene; Boros, Paul Z.; Schiff, David; Reader, Malcolm; and Kamen, Ira, 3,646,256.
- Comfo-Dent Corporation: See—
- Huey, Elbert P., 3,667,123.
- Comfort, Inc.: See—
- Miller, Raoy J.; and Trabbic, Gerald W., 3,684,188.
- Cominco Ltd.: See—
- Lewis, Gerald Perley; Smyth, Robert William; Booker, Philip P.; and Zelznak, Richard, 3,684,586.
- McKay, Donald Roderick; and Landucci, Louis, 3,649,180.
- Redden, Robert Francis, 3,694,199.
- White, Arnold G.; Smith, Thomas E.; and Work, Lyall C., 3,656,897.
- White, Arnold George; Smith, Thomas Edward; Work, Lyall Campbell; and Miller, Willard Wallace, 3,664,929.
- Comitato Nazionale per l'Energia Nucleare: See—
- Bordonali, Corrado; and Biancifiori, Maria Antonietta, 3,635,561.
- Franco, Gianfranco; Mancini, Carlo; and Pulacci, Angiolo, 3,638,000.
- Comley, Erasmus Smit. Locking of car radios and the like. 3,705,612, 12-12-72, Cl. 151-39.000.
- Comley, Peter Donald Heywood, to Movor & Coulson Limited. Conveyor belt tensioning means. 3,638,781, 2-1-72, Cl. 198-208.
- Commans, Donald V., to Jo Bud, Inc. Fixtures for telescoping trailers. 3,635,516, 1-18-72, Cl. 296-23.
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- Commarmot, Roger, to Rhone-Poulenc S.A. Valve. 3,674,236, 7-4-72, Cl. 251-176.000.
- Commatic Systems: See—
- Smith, Lloyd M.; Scott, James B.; and Wertz, William H., 3,704,346.
- Commercial Affiliates, Inc.: See—
- Case, Roger L.; and Drake, Jack W., 3,659,331.
- Mildon, James R., 3,696,476.
- Commercial Appliances, Inc.: See—
- Pottinger, Eugene A.; and Shelton, Winston L., 3,667,375.
- Shelton, Winston L.; and Pottinger, Eugene A., 3,677,170.
- Commercial Communications, Ltd., mesne: See—
- Barton, Filex Phillip, 3,702,903.
- Commercial Electronics, Inc.: See—
- Kline, Donald D., 3,676,587.
- Commercial Envelope Manufacturers, Inc.: See—
- Arnell, Alvin, 3,674,255.
- Commercial Holding & Metals Corporation: See—
- Aubert, Jean-Pierre, 3,635,146.
- Commercial Mechanisms, Inc.: See—
- Hunsicker, Paul Robert, 3,640,262.
- Commercial Propane Corporation: See—
- Reich, Douglas R., 3,689,040.
- Commercial Screw Products, Inc.: See—
- Strah, Frank L.; and Trepannier, Edward J., 3,643,695.
- Commercial Shearing & Stamping Company: See—
- Chlumecky, Nicholas, 3,645,102.
- Chlumecky, Nicholas, 3,677,015.
- Haspert, John C., 3,678,694.
- Petro, John D.; and Hodgson, Robert F., 3,693,350.
- Commercial Solvents Corporation: See—
- Clark, Edgar L., 3,699,065.
- Daniel, John H., Jr., 3,658,919.
- Dowling, Thomas P., 3,645,205.
- Dowling, Thomas P., 3,685,449.
- Frump, John A.; and Runge, Wallace F., 3,661,922.
- Frump, John A., 3,678,065.
- Frump, John A.; and Kruse, Harry F., 3,687,888.
- Gagliardi, Domenick D.; and Cicione, Robert J., 3,661,632.
- Gagliardi, Domenick Donald, 3,652,513.
- Gagliardi, Domenick Donald, 3,677,812.
- Gay, Gordon M., 3,668,027.
- Hodge, Edward B., 3,697,548.
- Hodge, Edward B., 3,704,248.
- Hunsucker, Jerry Hoyt, 3,654,229.
- Hunsucker, Jerry Hoyt, 3,661,861.
- Hurd, Richard N., 3,663,705.
- Jones, Lawrence R., 3,650,984.
- Jones, Lawrence R., 3,652,619.
- Keith, Chester L., 3,661,712.
- Kern, Forrest L., 3,691,954.
- McMullen, James R., 3,661,713.
- Miescher, Guido M., 3,696,000.
- Runge, Wallace F.; and Laine, Robert E., 3,655,781.
- Schwoyer, William L., 3,676,234.
- Stephan, J. T.; and Golick, A. J., 3,706,950.
- Stephan, John T.; and Golick, Alex James, 3,640,740.
- Stephan, John T.; and Golick, A. J., 3,705,832.
- Toops, Emory Earl, Jr., 3,640,697.
- Wakefield, Ralph V., 3,638,752.
- Woodings, Eric T., 3,661,714.
- Young, Vernon V., 3,687,982.
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- Commissaire, Henri: See—
- Badiano, Jacques; and Commissaire, Henri, 3,696,416.
- Commissariat a l'Energie Atomique: See—
- Abbe, Lucien; and Sachs, Charles, 3,648,927.
- Allemand, Robert; Brey, Christian; and Jacobe, Jean, 3,703,638.
- Blachere, Robert; and Sauvage, Michel, 3,698,724.
- Blattmann, Henri; Javellaud, Jean; and Yerouchaimi, David, 3,660,701.
- Blattmann, Henri; Javellaud, Jean; and Yerouchalmi, David, 3,686,519.
- Blum, Paul; Lefrancois, Jacques; and Vinarnick, Louis, 3,705,101.
- Boulanger, Gilbert; and Samoel, Alain, 3,678,735.
- Cachard, Maurice de; and Georges, Jean-Louis, 3,663,794.
- Cahour, Paul; Decrop, Jean; Holder, Jean; and Ledac, Alain, 3,666,419.
- Carcey, Jacques, 3,679,807.
- Carriere, Christian; and Dupont Roger, 3,666,969.
- Charrier, Rene, 3,642,588.
- Chicheportiche, Armand; Vallee, Rene Louis; and Vergez, Pierre, 3,662,273.
- Cohen, Michel; Lavigne, Pierre; and Sauvagnac, Robert, 3,678,920.
- Correard, Daniel; Friess, Emmanuel; Salvi, Antoine; and Tregoures, Roger, 3,681,689.
- Costa, Charles; Loupere, Andre; Monsel, Philippe; and Schmitt, Bertrand, 3,679,272.
- Coupat, Bernard; and Musikas, Claude, 3,692,500.
- de Vaulchier Du Deschamps, Louis; de Fouchier, Alain; de Vaulcelles, Emmanuel; and Facquet, Louis, 3,674,655.
- Delafosse, Jacques; and Viaud, Jean-Luc, 3,674,637.
- Detaint, Jacques, 3,646,348.
- Dirian, Gregoire, 3,698,156.
- Eloy, Jean-Francois, 3,644,731.
- Fedi, Leto; Meunier, Jean; and Vertut, Jean, 3,682,208.
- Forrat, Francis, 3,650,701.
- Fremiot, Charles, 3,678,365.
- Gauthron, Maurice, 3,697,377.
- Germond, Jean-Claude; Guilbaud, Jean-Pierre; and Vertut, Jean, 3,664,517.
- Goff, Denis Le, 3,703,661.
- Guernet, Georges, 3,676,693.
- Guery, Marcel, 3,663,818.
- Guillet, Hubert; Jacob, Louis; Mouchart, Jacques; and Sturel, Bernard, 3,663,087.
- Huguet, Michel; Rebut, Paul-Henri; and Torossian, Antoine, 3,684,992.
- Icre, Pierre; and Laizier, Jacques, 3,655,965.
- Jacob, Louis, 3,674,340.
- Lavigne, Pierre, 3,663,966.
- Lavigne, Pierre, 3,675,031.
- Lazzari, Jean-Pierre; and Melnick, Igor, 3,676,869.
- Marilleau, Jacques, 3,668,415.
- Marilleau, Jacques, 3,668,416.
- Moreau, Claude, 3,668,283.
- Pierson, Alexandre, 3,657,539.

- Rassat, Andre; and Ramasseul, Rene, 3,642,818.
- Salvi, Antoine, 3,639,828.
- Salvi, Antoine, 3,663,953.
- Teboul, Albert, 3,654,970.
- Townsend, Eric Jean; and Fortin, Marcel, 3,698,778.
- Commissariat a l'Energie Atomique et Societe Desmarquest SA: See—
- Meneret, Jean, 3,664,651.
- Commisso, Nicholas D., to Mobil Oil Corporation. Carton. 3,648,916, 3-14-72, Cl. 229-2.5.
- Commodity Improvements Inc.: See—
- Phillips, Walt, 3,634,051.
- Phillips, Walt, 3,646,215.
- Phillips, Walt, 3,647,700.
- Commodity Marketers, Inc.: See—
- Kliwer, George G., 3,693,579.
- Commons, Charles H., Jr., to United States of America, Commerce. Process of making thermal insulation. 3,634,250, 1-11-72, Cl. 252-62.
- Commons, Ward T. Dirigible wheel device. 3,695,374, 10-3-72, Cl. 180-27.000.
- Commonwealth of Australia: See—
- Bondarenko, Edward J., 3,657,512.
- Commonwealth of Australia, care of Secretary Department of Supply, The: See—
- Mc Allister, Lindsay G., 3,675,191.
- Commonwealth of Australia, care of the Secretary Department of Supply, The: See—
- Ward, John, 3,645,771.
- Commonwealth of Australia, Minister of State for Defence, the Government of the: See—
- Mostyn, William D., 3,697,103.
- Commonwealth of Australia, The: care of Secretary of Supply, The: See—
- Ward, John; and Paterson, Ross, 3,673,420.
- Commonwealth of Puerto Rico: See—
- Cancel, Luis E.; Rivera-Ortiz, Jose Manuel; and Garcia-Rivera, Francisco, 3,647,062.
- Ramos-Rodriguez, Emiliano, 3,701,789.
- Commonwealth of Puerto Rico, The: See—
- Alexander, Alex G., 3,698,950.
- Commonwealth of Puerto Rico, The Government of the: See—
- Ramos-Rodriguez, Emiliano, 3,663,612.
- Commonwealth Oil Refining Company, Inc.: See—
- McDonald, Gerald W. G., 3,679,576.
- Commonwealth Scientific and Industrial Research Organization: See—
- Blackwood, James O.; and Cullis, Brian D., 3,697,610.
- Cook, John Robert; Delmenico, Jack; and Jones, Francis William, 3,684,430.
- Culvenor, Claude Charles Joseph; Edgar, John Alexander; Smith, Leslie Walter; Tweeddale, Helen Joan; Jago, Marjorie; and French, Eric Ancelot, 3,705,905.
- Delmenico, Jack; and Katz, Hilbert John, 3,639,098.
- Henshaw, David Ernest; and Stern, Lionel, 3,693,339.
- Holan, George, 3,644,418.
- Holan, George, 3,657,357.
- Tauber, Elisha, 3,700,472.
- Walsh, Alan, 3,644,045.
- Weiss, Donald Eric; Bolto, Brian Alfred; and Willis, Donald, 3,645,922.
- Commonwealth Scientific and Research Organization: See—
- Tauber, Elisha; and Murray, Maxwell John, 3,640,754.
- Communications & Systems, Inc.: See—
- Grobert, Paul H., 3,666,933.
- Grobert, Paul H., 3,670,155.
- Communications Associates, Inc.: See—
- Brack, Werner, 3,657,664.
- Communications Patents Limited: See—
- Edwards, William Thomas; and Kirwan, James, 3,671,799.
- Gabriel, Ralph Parton, 3,693,090.
- Gargini, Eric J., 3,657,494.
- Gargini, Eric J., 3,668,575.
- Gargini, Eric J., 3,706,040.
- Gargini, Eric J., 3,665,311.
- Communications Research Company: See—
- Richards, Samuel E., Jr., 3,644,687.
- Communications Satellite Corporation: See—
- Blachier, Bruno L.; and Champeau, Andre R., 3,697,898.
- Dill, George D., 3,683,116.
- Esch, Fred H., 3,707,664.
- Gabbard, O. Gener; and Kaul, Pradman, 3,707,680.
- Heers, Arthur F.; and Schmidt, William G., 3,678,389.
- Maillet, Wilfrid G., 3,649,764.
- Schmidt, William G., 3,644,678.
- Schmidt, William George, 3,654,395.
- Sekimoto, Tadahiho; and Gabbard, Ova G., 3,634,628.
- Sekimoto, Tadahiho, 3,666,888.
- Shigaki, Seiichiro, 3,702,944.
- Simmons, William J., 3,676,803.
- Standing, Arthur F., 3,675,138.
- Wachs, Marvin Richard, 3,691,466.
- Communications Satellite Corporation, mesne: See—
- Johnson, George B., Jr., 3,643,897.
- Communications Systems Corporation: See—
- Tremblay, Hubert J.; and Mellien, Frank V., Jr., 3,660,609.
- Communications Transistor Corporation: See—
- Duncan, David M., 3,683,241.
- Duncan, David M., 3,707,677.
- Reber, Robert L.; and Huiskens, James C., 3,678,348.
- Community Bank, mesne: See—
- Calvagna, James F.; and Balling, Roger A., 3,691,528.
- Comon Tatar Inc.: See—
- Tatar, Frank J., 3,677,399.
- Compa, Russel Edward; and Liebowitz, Marvin. Distributor for liquid textile conditioners. 3,701,202, 10-31-72, Cl. 34-72.000.
- Compaan, Klaas: See—
- Jansen, Constant Gijsbertus Johannes; Compaan, Klaas; and Venema, Albertus, 3,688,151.
- Compac Corporation: See—
- Munawwar, Sheikh Mohammad, 3,694,305.
- Compac Engineering Inc.: See—
- Jones, James W., 3,651,297.
- Compact Tractor Industries, Inc.: See—
- Sheppard, Cecil James, Jr., 3,650,123.
- Compagnia Italiana Westinghouse Freni E Segnali: See—
- Gnavi, Aldo; and Di Bartolomeo, Giacomo, 3,633,762.
- Nardi, Giancarlo, 3,679,185.
- Compagnie Centrale Sici: See—
- Sachs, Frederic; and Vanotti, Guy, 3,667,549.
- Compagnie Centrale Sici Societe Anonyme: See—
- Sachs, Frederic, 3,650,329.
- Compagnie Chimique Merck Sharp & Dohme, S.A.: See—
- Bezou, Louis Alain Michel, 3,658,827.
- Compagnie d'Applications Mecaniques a l'Electronique, Au Cinema et a l'Atomistique (C.A.M.E.C.A.): See—
- Tong, Mathias, 3,659,941.
- Compagnie de Saint-Gobain: See—
- Battigelli, Jean, 3,649,232.
- Battigelli, Jean A., 3,649,233.
- Biagini, Silvano, 3,653,869.
- Bourgeois, Maurice, 3,687,649.
- Brossard, Daniel, 3,650,716.
- Charpentier, Maurice, 3,649,234.
- D'Huart, Guy, 3,681,041.
- Halberschmidt, Friedrich; and Overath, Albrecht, 3,641,711.
- Hennequin, Francois Maurice, 3,694,178.
- Jaeger, Erwin, 3,636,590.
- Jumentier, Claude; Bonnet, Alain; and Boiteau, Claude, 3,658,633.
- Lamanche, Jean; and Buisson, Gerard, 3,703,396.
- Malburet, Rene A., 3,679,073.
- Martin, Michel, 3,677,731.
- Parnet, Bernard, 3,664,520.
- Paymal, Jean, 3,634,055.
- Paymal, Jean, 3,671,355.
- Peetz, Hans Dieter; and Lurssen, Hermann, 3,634,654.
- Pierre-Dit-Mery, Jean-Marc, 3,681,040.
- Simon, Albert, 3,639,202.
- Tissier, Pierre, 3,655,355.
- Wiquel, Valentino, 3,681,169.
- Compagnie de Saint-Gobain-Pont-A-Mousson: See—
- Benard, Claude E., 3,637,912.
- Brauweiler, Wilhelm; and Mager, Gunther Winand, 3,693,896.
- Compagnie des Ateliers et Forges de la Loire: See—
- Gay, Pierre, 3,664,166.
- Gay, Pierre Andre, 3,685,711.
- Grand, Rene, 3,695,337.
- Ruget, Gabriel, 3,688,552.
- Compagnie des Ateliers et Forges de la Loire (St. Chamond, Firminy, St. Etienne Jacob Holtzer): See—
- Demeaux, Jean, 3,695,946.
- Compagnie des Ateliers et Forges de la Loire (St. Chamond-Firminy-St. Etienne-Jacob-Holtzer): See—
- Ruget, Gabriel, 3,650,143.
- Compagnie des Compteurs: See—
- Bertrand, Pierre Claude, 3,656,348.
- Bertrand, Pierre Claude, 3,660,745.
- Carnel, Alain, 3,648,182.
- Chambolle, Stephane; and Hanff, Michel Max, 3,641,816.
- Chiffert, Alain, 3,678,377.
- Ducousset, Robert Eugene Raymond; Larmurier, Claude Fernand Emile; and Rolland, Jean-Noel Gaston Andre, 3,631,875.
- Dunou, Pierre Andre, 3,702,927.
- Frayssinoux, Roland Francois Edouard, 3,699,520.
- Hanff, Michel Max; and Chambolle, Stephane, 3,698,820.
- Hermel, Jacques Edmond, 3,634,771.
- Janssen, Sylvain Jean, 3,646,431.
- Larmurier, Claude Fernand Emile, 3,677,078.

- Neuville, Claude Marie Daniel; Quenouille, Georges Emile; Squarcioni, Andre; and Laurent, Jean-Joel Marcel Gustave, 3,662,366.
- Queron, Claude-Auguste, 3,634,762.
- Souillard, Michel Henry Pierre, 3,651,377.
- Soupenne, Henri, 3,677,466.
- Compagnie des Freins et Signaux Westinghouse: *See—*
Demarez, Rene; and Dubois, Claude J., 3,692,365.
- Malon, Jean Pierre; and Adde, Joseph W., 3,682,512.
- Marcillaud, Roger, 3,700,006.
- Compagnie des Gelatines Francaises: *See—*
Laboureur, Pierre; and Villalon, Michel, 3,634,191.
- Compagnie des Metaux d'Overpelt-Lommel et de Corphalie: *See—*
Quintin, Albert Andre Joseph, 3,632,334.
- Compagnie des Montres Longines: *See—*
Berney, Jean Claude, 3,675,147.
- Compagnie d'Etudes et de Recherches des Services operationnels d'Assianissement en France Compagnie SOAF: *See—*
Le Quinquis, Jean Pierre, 3,706,380.
- Compagnie Electro-Mecanique: *See—*
Hugot, Andre Albert, 3,665,235.
- Le Henaff, Jacques, 3,634,709.
- LeHenaff, Jacques, 3,641,378.
- Compagnie Francaise de Raffinage: *See—*
Gislon, Andre; Weisang, Joseph Edouard; and Maurin, Jean, 3,665,047.
- Gluntz, Claude; Meyer, Pierre; and Peyrot, Jean, 3,640,982.
- Maurin, Jean, 3,647,903.
- Weisang, Joseph Edouard; and Engelhard, Philippe, 3,700,588.
- Compagnie Francaise d'Enterprises: *See—*
Vilain, Robert H., 3,648,514.
- Compagnie Francaise des Petroles: *See—*
Brun, Andre; Orioux, Pierre P.; and Le Therisien, Louis, 3,656,310.
- Cintract, Bernard G.; and Sevin, Rene G., 3,682,259.
- Cintract, Bernard G.; and Sevin, Rene G., 3,702,640.
- Corgnet, Jean-Louis, 3,667,731.
- Cortes, Abel C., 3,693,735.
- Garnier, Henri Louis, 3,702,938.
- Le Therisien, Louis G.; and Marion, Henri A., 3,640,079.
- Menard, Louis F., 3,653,167.
- Orioux, Pierre P., 3,653,398.
- Serrano, Francisco M., 3,633,529.
- Serrano, Francisco M., 3,640,078.
- Serrano, Francisco M., 3,656,308.
- Compagnie Francaise des Petroles, Societe Anonyme: *See—*
Cortes, Abel C., 3,696,875.
- Marion, Henri A.; Orioux, Pierre P.; and Serrano, Francisco M., 3,652,196.
- Orioux, Pierre P., 3,648,719.
- Serrano, Francisco M., 3,638,969.
- Compagnie Francaise Thomson Houston-Hotchkiss Brandt: *See—*
Bidault, Michel; Dosdat, Jean; Lelay, Roland; and Parouty, Jean Claude, 3,699,647.
- Cahen, Olivier; Picquendar, Jean-Edgar; and Pircher, Georges, 3,648,048.
- Marchal, Michel; and Bouygues, Jean, 3,667,100.
- Compagnie Francaise Thomson-Houston: *See—*
Guilhem, Robert Germain; and Fouche, Yvon Pierre Jean, 3,686,572.
- Compagnie Francaise d'Entreprises Metalliques: *See—*
Vilain, Robert H., 3,667,240.
- Compagnie Generale d'Automatisme: *See—*
Boucrist, Hubert, 3,695,981.
- Buissiere, Jean, 3,694,320.
- Charbonnier, Gerard; and Gauthier, Gerard, 3,680,072.
- Falvert, Daniel; Giralt, Georges; Clot, Jean; and Authie, Gerard, 3,686,492.
- L'Huillier, Jacques, 3,688,955.
- Monnerau, Georges, 3,649,978.
- Noettinger, Philippe J., 3,640,367.
- Pitsch, Johan Ludwig; and Charbonnier, Gerard, 3,659,193.
- Compagnie Generale de Geophysique: *See—*
Loeb, Julien M., 3,675,485.
- Compagnie Generale de Geophysique: *See—*
Angelle, Philippe, 3,652,979.
- Nard, Georges Pierre, 3,696,427.
- Compagnie Generale de Radiologie: *See—*
Lajus, Pierre, 3,636,351.
- Lajus, Pierre, 3,670,163.
- Compagnie Generale de Telegraphie Sans Fil: *See—*
Dumanchin, Roger, 3,643,262.
- Compagnie Generale d'Electricite: *See—*
Aupoix, Marcel; and Culand, Andre, 3,694,914.
- Bechet, Louis; and Bertholon, Claude, 3,648,148.
- Biet, Jean-Pierre; Nguyen, Quang Tan; Peres, Gerard; and Ripoche, Gerard, 3,697,760.
- Boutineau, Jean-Louis, 3,659,917.
- Catherin, Jean-Michel, 3,635,562.
- Catherin, Jean-Michel, 3,642,373.
- Catherin, Jean-Michel, 3,654,479.
- Chauptit, Jean, 3,654,542.
- Chevet, Robert; and Goulard, Jacques, 3,695,936.
- Collier, Franck; Dauchy, Jean-Daniel; Le Sergent, Christian; and Michon, Maurice, 3,706,051.
- Decuyper, Jean-Claude, 3,662,318.
- Denel, Jean; Krebs, Jean-Pierre; and Santa-Maria, Enrique, 3,686,458.
- Destree, Rene, 3,702,411.
- Dubois, Andre, 3,633,067.
- Ebersohl, Gerard, 3,651,375.
- Ecomard, Jean-Francois; and Maly, Jacques, 3,702,373.
- Fally, Jacques; Lazennec, Yvon; and Lasne, Claude, 3,668,010.
- Fuchs, Bernard; and Gary, Christian, 3,683,174.
- Goue, Bernard; Guitard, Louis; and Edon, Claude, 3,645,799.
- Goumy, Daniel, 3,670,093.
- Guillet, Hubert; and Le Goff, Denis, 3,643,568.
- Jacquelin, Jean, 3,703,416.
- Melchior, Gerard; and Sinobad, Dusan, 3,697,880.
- Michon, Maurice, 3,668,536.
- Moisson-Franckhauser, Francois, 3,646,249.
- Moisson-Franckhauser, Francois, 3,695,057.
- Mouchart, Jacques, 3,633,985.
- Mouchart, Jacques, 3,635,563.
- Orgeret, Lucien, 3,686,567.
- Paris, Jean Denel; Maly, Wissous; and Santa-Maria, Enrique, 3,701,906.
- Peronneau, Pierre; and Leger, Fernand, 3,661,146.
- Pestie, Jean-Pierre; and Belmas, Jean, 3,635,772.
- Pitsch, Johan Ludwig; and Charbonnier, Gerard, 3,659,193.
- Tocquec, Yves, 3,641,577.
- Compagnie Generale d'Electro-Ceramique: *See—*
Gion, Leon, 3,686,007.
- Compagnie Generale d'Electronique Industrielle Lepaute, CGEI-Lepaute: *See—*
Brailard, Pierre L.; Moreuil, Jean-Louis; and Steru, Marius, 3,640,002.
- Nollace, Pierre, 3,694,732.
- Compagnie Generale d'Entreprises Electriques: *See—*
Debaigt, Jean, 3,636,558.
- Debaigt, Jean, 3,656,086.
- Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie: *See—*
Lejeune, Daniel, 3,698,492.
- Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie: *See—*
Lejeune, Daniel, 3,674,315.
- Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie: *See—*
Verdier, Henri, 3,674,077.
- Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie: *See—*
Boileau, Jacques, 3,631,913.
- Boileau, Jacques, 3,638,704.
- Boileau, Jacques, 3,692,080.
- Boileau, Jacques, 3,707,177.
- Lejeune, Daniel, 3,638,180.
- Lejeune, Daniel, 3,664,000.
- Lejeune, Daniel, 3,683,479.
- Massoubre, Jean-Marie, 3,669,932.
- Massoubre, Jean-Marie, 3,686,147.
- Montagne, Jean B., 3,664,402.
- Verdier, Henri, 3,631,911.
- Verdier, Henri, 3,645,314.
- Verdier, Henri, 3,645,316.
- Verdier, Henri, 3,661,425.
- Verdier, Henri, 3,664,708.
- Verdier, Henri, 3,674,080.
- Verdier, Henri, 3,675,700.
- Verdier, Henri, 3,682,220.
- Verdier, Henri, 3,705,613.
- Compagnie Gervais Danone Hauts de Seine: *See—*
Goujard, Marie Pierre, 3,698,918.
- Compagnie Industrielle de Mecanismes: *See—*
Boyriven, Paul, 3,662,491.
- Boyriven, Paul, 3,671,064.
- Boyriven, Paul, 3,702,960.
- Compagnie Industrielle de Precontrainte et d'Equipment des Constructions (C.I.P.E.C.): *See—*
Wattiez, Gerard Charles Lucien, 3,677,145.
- Compagnie Industrielle de Travaux: *See—*
Launay, Pierre, 3,704,595.
- Launay, Pierre, 3,707,011.
- Compagnie Industrielle des Telecommunications Cit-Alcatel: *See—*
Tocquec, Yves; and Rabadeux, Andre, 3,706,999.
- Compagnie Industrielle des Telecommunications: *See—*
Louvel, Guy, 3,673,470.
- Louvel, Guy, 3,697,902.
- Compagnie Industrielle des Telecommunications Cie: *See—*
Saulgeot, Claude; and Coste, Jean-Noel, 3,698,774.
- Compagnie Internationale pour la Diffusion de la —: *See—*

- Hess, Rene, 3,662,120.
- Compagnie Internationale pour l'Informatique: *See—*
Blanchard, Joseph Louis, 3,647,400.
- Blanchard, Joseph Louis, 3,685,029.
- Boehm, Albert L., 3,657,704.
- Briand, Roger H., 3,665,412.
- Fouche, Yvon; and Dansac, Jean, 3,656,147.
- Lazzari, Jean-Pierre; and Melnick, Igor, 3,676,869.
- Spain, Robert J., 3,699,550.
- Compagnie Italiana Westinghouse Freni e Segnali: *See—*
Nardi, Giancarlo, 3,670,755.
- Compagnie Pechiney: *See—*
Ferber, Martin Emile; and Wintenberger, Michel Georges, 3,671,229.
- Henri, Richard; and Roussos, Michel, 3,699,019.
- Percheron, Jean-Claude G.; and Septier, Louis (said Percheron assor. to), 3,661,566.
- Rauch, Joseph, 3,635,077.
- Compagnie Pechiney et Electrification: *See—*
Duciaux, Daniel; Givry, Jean-Pierre; and Pointud, Jacky, 3,679,555.
- Compagnie-Electro-Mecanique: *See—*
Sterlini, Jacques, 3,667,230.
- Compare, Giampiero: *See—*
Kassabgi, Georges; and Compare, Giampiero, 3,676,746.
- Compco Corporation: *See—*
Zagel, Samuel J.; and Patton, Thomas H., 3,675,006.
- Compex Corporation: *See—*
Busby, Edwin S., Jr., 3,700,314.
- Complexul Pentru Prelucrarea Lemnului Reghin: *See—*
Delu, Ion, 3,691,891.
- Complexul Pentru Prelucrarea Lemnului Reghin: *See—*
Delu, Ion, 3,680,424.
- Compo Industries, Inc.: *See—*
Palm, William E., Jr., 3,676,250.
- Winkler, Julius G., 3,704,474.
- Componentry Research and Development Enterprise, Inc.: *See—*
Raskin, Archie, 3,664,616.
- Components, Incorporated, *mesne: See—*
Schneider, Herman, 3,649,878.
- Compret N.V.: *See—*
Krauth, Adolf W., 3,633,908.
- Compteurs Schlumberger: *See—*
Herrmann, Pierre, 3,678,262.
- Compteurs-Schlumberger Montroage: *See—*
Gaulier, Jean-Claude, 3,700,055.
- Comptoir de la Filtration Cofi: *See—*
Petitjean, Elie Raymond, 3,633,753.
- Comptoir Europeen de Distribution et de Representation: *See—*
Blanc de la Naulte, Philippe; and Ginhoux, Roland, 3,673,030.
- Compton, Daniel D.: *See—*
Paterson, Gerald E.; and Compton, Daniel D., 3,638,476.
- Compton, Dinsdale M. J.; and Epstein, Barry D., to Gulf Oil Corporation. Phenol monitoring method and apparatus, 3,679,898, 7-25-72, Cl. 250-43.50r.
- Compton, John W.: *See—*
Kaneko, Thomas M.; Schmolka, Irving R.; and Compton, John W., 3,676,354.
- Compton, Lloyd A.: *See—*
Mc Caul, James F., III; and Compton, Lloyd A., 3,702,523.
- Compton, Robert G.; Richmond, Ray S.; and Tracy, Robert A., to First City National Bank of Houston, *mesne as Trustee of the Calery, Francis A., 1968 Trust. Corona device. 3,691,373, 9-12-72, Cl. 250-49.52c.*
- Compton, Robert H.; and Bell, Alexander, to Stromberg Datagraph, Inc. Shaped beam tube, 3,633,065, 1-4-72, Cl. 315-14.
- Compton, Theron Frank: *See—*
Christensen Jay Arthur; and Compton, Theron Frank, 3,697,011.
- Compton, William F. Motorcycle snowmobile conversion unit, 3,667,562, 6-6-72, Cl. 180-5.
- Compufoto, Inc.: *See—*
Nielsen, Asger T., 3,665,453.
- Nielsen, Asger T., 3,677,146.
- Nielsen, Asger T., 3,688,654.
- Compugraphic Corporation: *See—*
Hanson, Ellis P.; and Sausele, George J. H., 3,688,672.
- Compupop, Inc.: *See—*
Day, Alan M.; and Browning, Gordon D., 3,697,289.
- Compur-Werk Gesellschaft mit beschrankter Haftung & Co.: *See—*
Weiss, Hugo, 3,683,778.
- Compur-Werk Gesellschaft mit beschrankter Haftung & Co.: *See—*
Schwarz, Gerhard, 3,675,561.
- Compur-Werk Gesellschaft mit beschrankter Haftung & Co.: *See—*
Fahlenberg, Paul; and Pross, Wilhelm, 3,654,845.
- Fahlenberg, Paul, 3,695,158.
- Probst, Georg; and Herterich, Walter, 3,693,984.
- Schwarz, Gerhard, 3,703,136.
- Singer, Franz, 3,636,846.
- Computech, Inc.: *See—*
Brown, Robert M., 3,678,474.
- Computed Living Space, Inc.: *See—*
Lieberman, Aharon, 3,650,122.
- Computek, Inc.: *See—*
Dertouzos, Michael L., 3,705,956.
- Computer Design Corporation: *See—*
Bacon, Stanley H., 3,668,436.
- Grannis, Norman J., 3,694,642.
- Computer Indentics Corporation: *See—*
Kapsambelis, Christos Basil; and Collins, David Janett, 3,673,389.
- Computer Image Corporation: *See—*
Altemus, William C., 3,688,028.
- Harrison, Lee, III; Honey, Francis J.; Tajchman, Edwin J.; and Bowles, Lloyd W., 3,662,374.
- Harrison, Lee, III; Honey, Francis J.; and Tajchman, Edwin J., 3,700,792.
- Honey, Francis J.; and Wells, Frank D., 3,689,917.
- Computer Indentics Corporation: *See—*
Tuhro, Richard H.; and Kapsambelis, Christos B., 3,668,409.
- Computer Industries, Inc.: *See—*
Gelb, John; Merwin, Eugene M.; and Richardson, William B., 3,643,334.
- Towell, Le Roy Dean, 3,675,840.
- Towell, LeRoy Dean, 3,643,133.
- Computer Management Consultants, Inc.: *See—*
Wittenberger, Wallace Wayne, 3,651,267.
- Computer Mate, Inc.: *See—*
Smith, Gerald L., 3,644,910.
- Computer Modem Corporation: *See—*
Arbuckle, Timothy; and Sullivan, Herbert, 3,656,108.
- Computer Optics, Inc.: *See—*
Kegelman, Thomas D., 3,657,587.
- Computer Optics, Inc., *mesne: See—*
Kegelman, Thomas D.; and Williams, Peter R., 3,671,956.
- Kegelman, Thomas D.; and Williams, Peter R., 3,671,957.
- Computer Retrieval Systems, Inc.: *See—*
Berkeley, Arnold D.; Bold, Eugene W.; Jefferson, Donald E.; and Zeller, Gerard A., 3,701,972.
- Computer Sciences Corporation: *See—*
Grobert, Paul H.; Adams, Robert T.; and Klein, Melvin S., 3,683,165.
- Computer Specialties Corporation: *See—*
Greenley, Henry R.; and Craig, William E. (said Craig assor. to), 3,706,072.
- Computer Systems Engineering, Inc.: *See—*
Molloy, Kenneth H.; Ward, John P.; and Benson, Victor Mark, 3,675,196.
- Computer Terminal Corporation: *See—*
Alexander, Jack F., 3,706,905.
- Computer Test Corporation: *See—*
Chernow, Gary Allen; and Gail, Hyman, 3,655,959.
- Douaihy, Sarkis; Renz, John F.; Blatchley, William R.; and Stahl, Terry W., 3,636,445.
- Holmes, Walter V.; and Renz, John F., 3,701,909.
- Lee, Don N.; and McMennamin, Roy B., 3,700,998.
- Computer Transceiver Systems, Inc.: *See—*
Roberts, Henry; Weirgin, Arthur R.; and Scala, Richard V., 3,649,756.
- Computer Transmission Corporation: *See—*
Naff, Fredric L., Jr., 3,684,925.
- Sanders, Ray W.; Keyes, Neil T.; and Quan, William, 3,665,405.
- Sanders, Ray W.; Luce, David W.; and Quan, William, 3,705,986.
- Computervision Corporation: *See—*
Denis, Richard E.; Sliwowski, Joseph J.; and Fryklund, Gilbert, 3,704,945.
- Friedman, David; and Levy, Kenneth, 3,660,782.
- Friedman, David, 3,671,748.
- Friedman, David; and Levy, Kenneth, 3,693,066.
- Fryklund, Gilbert; and Denis, Richard E., 3,704,655.
- Sliwowski, Joseph J., 3,702,732.
- Sliwowski, Joseph J.; and Fryklund, Gilbert, 3,704,657.
- Villers, Philippe; Allen, Martin A.; and Mulvaney, James M., 3,660,157.
- Computest Corporation: *See—*
Lowery, Ronald M.; and Summers, Daniel J., Jr., 3,700,808.
- Computing & Software, Inc.: *See—*
Grotefend, William H., 3,652,008.
- Computing Devices of Canada Limited: *See—*
Struzina, Richard J., 3,669,382.
- Computone Systems Incorporated: *See—*
Glover, William T.; and Kelly, Eugene W., 3,647,972.
- Comstock & Westcott, Inc.: *See—*
Deer, John A., Jr., 3,700,332.
- Comstock, Alfred E.; and Wilcox, Burdsal Gardner, to Safeway Stores, Incorporated. Apparatus for handling block-like articles, 3,656,606, 4-18-72, Cl. 198-34.
- Comstock, Allan J.: *See—*
Stutzman, Guy R.; and Comstock, Allan J., 3,684,910.
- Comstock, Irving J.: *See—*

- Werner, Richard W.; Alexander, Everett E.; and Comstock, Irving J., 3,665,573.
- Comstock, Lowell R.: *See—*
Smith, Percy L.; and Comstock, Lowell R., 3,697,625.
- Comstock, Lowell R.; and Smith, Percy L., to Union Carbide Corporation. Unsaturated polyester resins admixed with cyclic ester polymers. 3,668,178, 6-6-72, Cl. 260-40.00r.
- Comstock, Richard L.; Chow, Kungta K.; and Leonard, William B., to Lockheed Aircraft Corporation. Optical modulator utilizing a slow wave circuit. 3,653,744, 4-4-72, Cl. 350-160.
- Comte, Bernard; and Cler, Victor, to Gram S.A. Transformer station carried by a mast. 3,706,839, 12-19-72, Cl. 174-45.0td.
- Comte, Bernard Michel; and Gareaux, Jean-Marie Louis Philippe, to Centre de Recherches de Pont-a-Mousson. Extractor for stripping pipes and other hollow parts from moulds and similar operations. 3,635,281, 1-18-72, Cl. 164-404.
- Comte, Georges N., to Cables de Lyon Alsacienne. Machine for the continuous production of helical circular wave guides. 3,687,782, 8-29-72, Cl. 156-425.000.
- Con-Tex Corporation: *See—*
Bartz, Fred H., 3,636,573.
- Conabee, Earl E.: *See—*
Brown, Sherman D.; Schroeder, Thomas F.; and Conabee, Earl E., 3,657,063.
- Robba, William A.; and Conabee, Earl E., 3,698,646.
- Conair, Incorporated: *See—*
Potvin, Raoul J., 3,635,377.
- Conant, Barton C.; and Thomas, James A., said Conant assor. to Abbott Coin Counter Co., Inc. Coin value determining apparatus and system. 3,699,981, 10-24-72, Cl. 133-8.000.
- Conant, Dale H., to Eastman Kodak Company. Diazo-containing material exhibits an imagewise change in triboelectric charging properties. 3,704,124, 11-28-72, Cl. 96-1.00r.
- Conant, James E. Electro-optical fluidic transfer conduit. 3,660,590, 5-2-72, Cl. 174-47.
- Conant, Theodore A., Jr., to Litton Systems, Inc. Low power memory system. 3,681,764, 8-1-72, Cl. 340-173.00r.
- Conapa, Leonard L.: *See—*
Garrison, Robert A.; and Conapa, Leonard L., 3,695,378.
- Conax Corporation: *See—*
Bohne, Frederick G.; and Johnson, Mark O., 3,680,208.
- Concast AG: *See—*
Burkhardt, Max; Huber, Horst; and Chateau, Christian, 3,707,184.
- Knell, Bernhard; Desfossez, Paul; Hess, Walter; and Schulz, Hans-Dieter, 3,638,713.
- Knell, Bernhard, 3,700,024.
- Meier, Walter; Burkhardt, Max; and Thalmann, Armin, 3,654,989.
- Concast AG., mesne: *See—*
Kipp, Adolf; Stockinger, Walter; and Konig, Peter J., 3,662,814.
- Concast Incorporated: *See—*
Burkhardt, Max; Huber, Horst; and Chateau, Christian, 3,707,184.
- Precht, Horst; and Fastert, Herbert, 3,658,120.
- Concelman, Carl W., to International Telephone and Telegraph Corporation. Snap lock coaxial connector. 3,694,793, 9-26-72, Cl. 339-91.00p.
- Concept, Inc.: *See—*
Naylor, Richard Norman, 3,664,329.
- Concept Research Corporation: *See—*
Underwood, Lee D., 3,664,884.
- Conch International Methane Limited: *See—*
Jackson, Robert G., 3,648,880.
- Jackson, Robert G., 3,662,558.
- Jackson, Robert G., 3,675,431.
- Jackson, Robert Glover, 3,648,879.
- Conchemo, Incorporated: *See—*
Carlson, John A., 3,694,596.
- Conciatori, Anthony B.: *See—*
Loft, John T.; Conciatori, Anthony B.; and Chenevey, Edward C., 3,671,491.
- Conciatori, Anthony B., to Celanese Corporation. Resins from phenylene bis acrylic acid. 3,637,602, 1-25-72, Cl. 260-78.
- Conco Inc.: *See—*
Siegal, Burton L., 3,706,110.
- Concord Control, Inc.: *See—*
Grossimon, Herbert P.; McDonough, James O.; and Roberge, James K., 3,670,180.
- Concorde Fibers, Inc.: *See—*
Arnett, Joseph W., Jr.; and Norwood, David W., 3,696,184.
- Roberts, John S., 3,645,401.
- Concrete Formwork Engineers Pty., Ltd.: *See—*
King, John Calaby, 3,700,070.
- Concrete Pipe Machinery Company: *See—*
Crawford, Gerald R.; and Wenner, Joseph F., 3,701,617.
- Condas, George A.; and Brown, Don W., to United States of America, Atomic Energy Commission. Variable sensitivity visual display for infrared laser beams. 3,676,677, 7-11-72, Cl. 250-83.30b.
- Condeco Automation, Inc.: *See—*
Whitfield, Homer G., 3,696,824.
- Condecor, Inc.: *See—*
Levy, Leon M., 3,686,783.
- Conder International Limited: *See—*
Cole, Robert Templeman; Whitbread, Frederick John; and Downer, John Colin, 3,690,086.
- Condes Corporation: *See—*
Kidd, Arthur H., 3,699,633.
- Kidd, Arthur H., 3,700,528.
- Condon, David C.: *See—*
Bennett, William C.; Condon, David C.; and Brink, Rodney O., 3,688,286.
- Condon, David C.; and Nichols, Andrew J., to Novar Corporation. Memory for storing plurality of variable length records. 3,678,462, 7-18-72, Cl. 340-172.500.
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Bhola, Siri R., 3,691,631.
- Cochran, Gary D.; Cutrona, Louis J.; and Ingalls, Arthur L., 3,687,543.
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- Cone, Donald R., to Stanford Research Institute. Electron-multiplier ionizer mass spectrometer. 3,663,810, 5-16-72, Cl. 250-41.9.
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- Cone, Richard E.: *See—*
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- Placante, Anthony N., 3,700,366.
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- Congrove, Ronald L., to Royal Industries, Inc. T-edge cutter. 3,707,104, 12-26-72, Cl. 83-513.000.
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Van Manen, Jacob Teunis Teunissen, 3,678,814.
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Lenkeit, Carl Heinz; and Conklin, Cornelius Stephen, Jr., 3,675,418.
- Conklin, George L.: *See—*
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Bell, Stanley C.; and Conklin, George T., 3,707,468.
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Conklin, Charles E., 3,635,087.
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- Conklin, Robert M., to Brunswick Corporation. Spin detector for golf games. 3,690,675, 9-12-72, Cl. 273-185.00r.
- Conklin, Roland H. Door mat. 3,663,980, 5-23-72, Cl. 15-215.
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Mitchell, Lawrence R.; and Conkling, William C., 3,666,379.
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Kleppen, Arthur L., Jr., 3,703,622.
- Conley, Grant W.: *See—*
Stoddard, Robert D.; Schumacher, Arnold; Conley, Grant W.; and Williams, Roy M., Jr., 3,665,454.
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Worley, Lajren D.; and Conley, James R., 3,690,708.
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- Conley, Larry R., to Accra-Point Arrays Corporation. Dual pressure welding machine. 3,660,631, 5-2-72, Cl. 219-78.
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Bowling, George W.; Conlisk, Peter J.; and Lenzen, Kenneth H., 3,691,712.
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Gilvar, Martin; Conlon, Charles E.; and Lieger, Alfred R., 3,669,377.
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- Conlon, William J., to Dynamics Corporation of America. Light powered by induction of variable impedance motor. 3,668,490, 6-6-72, Cl. 318-245.000.
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- Conn. Engineering Assoc. Corporation: *See—*
Jossick, James L., 3,695,795.
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- Conn, John B., to Merck & Co., Inc. Indanyl acetic acids. 3,692,825, 9-19-72, Cl. 260-515.00a.
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- Connant, Paul L., Sr., to Collins Radio Company. Electrical switch. 3,646,367, 2-29-72, Cl. 307-255.
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- Connecticut International Corporation: *See—*
Beal, Edward W., 3,678,260.
- Lambert, Robert E.; Beal, Edward W.; and Bacewicz, Anthony J., 3,701,969.
- Connecting Devices, Inc.: *See—*
Dunabin, John G., 3,665,601.
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Bonhomme, Francois Robert, 3,641,483.
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- Connell, James C.; Pinnolis, Samuel; and Schmidt, Wilhelm E. A., to Western Electric Company Incorporated. Apparatus for transferring components of a sealing contact switch to an assembly machine. 3,690,471, 9-12-72, Cl. 214-1.0bt.
- Connell, John M., to Foster Wheeler Corporation. Furnace burner arrangement. 3,688,747, 9-5-72, Cl. 122-333.000.
- Connell, Joseph A.; and Baranyi, Anthony J., to Systems Capital Corporation. Means for the underground storage of liquified gas. 3,701,262, 10-31-72, Cl. 62-45.000.
- Connell, Lehman J.: *See—*
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- Connell, Raymond S., Jr.: *See—*
Genter, Roland E.; and Connell, Raymond S., Jr., 3,636,446.
- Connolly, Eugene B., to United States Steel Corporation. Cutting tool. 3,656,219, 4-18-72, Cl. 29-95.
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Gnage, Oliver W.; and Connolly, Gordon F., 3,670,868.
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- Connolly, John H., to Corning Glass Works. Fiber optic core glass. 3,650,780, 3-21-72, Cl. 106-47.
- Connolly, Laverne R., to Eaton Corporation. Rotary pump with pressure relief. 3,655,299, 4-11-72, Cl. 417-310.
- Connolly, Lawrence J.: *See—*
Patzelt, Harold I.; Connolly, Lawrence J.; Ballweber, Edward G.; Korzenski, David B.; and Slepicka, Kenneth L., 3,663,518.
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McCurdy, Richard H.; and Connolly, Lawrence W., 3,685,239.
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- Conner, Charles J., to United States of America, Agriculture. Single bath process for orange to brown mineral dyes, with and without fungicide, using iron, manganese, and zirconium (zirc-ox process). 3,671,178, 6-20-72, Cl. 8-52.000.
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- Conner, David C., to LTV Electrosystems, Inc. Variable frequency control. 3,644,840, 2-22-72, Cl. 331-1.
- Conner, Edmond E.: See—
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- Conner, Edmond E.; and Wentz, Edward C., to Westinghouse Electric Corporation. Potential transformer. 3,686,600, 8-22-72, Cl. 336-70.000.
- Conner, George Eugene, Sr. Self-contained valve control system. 3,665,955, 5-30-72, Cl. 137-495.000.
- Conner, James M., to Combustion Engineering, Inc. Imperfect thread removal tool. 3,634,981, 1-18-72, Cl. 51-241.
- Conner, James M., to Polaroid Corporation. Lens shade. 3,641,894, 2-15-72, Cl. 95-11.
- Conner, John R. Self-cleaning filter system. 3,698,555, 10-17-72, Cl. 210-138.
- Conner, Joseph R.; Shovlin, Thomas F.; and Helm, Jack D., to Bemis Company Inc. Band saw apparatus. 3,680,421, 8-1-72, Cl. 83-201.140.
- Conner, Leonard E., to Eaton Yale & Towne, Inc., mesne. Fluid fuel burner control system. 3,649,156, 3-14-72, Cl. 431-78.
- Conner, Tom E., to Tom's Hydraulic Supply. Load-supporting bed unit for a truck. 3,642,324, 2-15-72, Cl. 298-11.
- Conner, Tom E. Stabilizing units for parked vehicles. 3,692,329, 9-19-72, Cl. 280-150.500.
- Conner, William R., Jr., to Kellwood Company. Edge contour guidance control for pieces of material. 3,636,898, 1-25-72, Cl. 112-203.
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- Conner, William V., to United States of America, Atomic Energy Commission. Plutonium production. 3,666,443, 5-30-72, Cl. 75-84.100.
- Connerney, William R., to Raytheon Company. Waveguide hybrid junction wherein a wall of the E-arm is contiguous with a wall of the H-arm. 3,670,268, 6-13-72, Cl. 333-11.000.
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- Connors, Robert E., to Sunline, Inc. Conveyor system. 3,633,734, 1-11-72, Cl. 198-78.
- Connott, Donald C.; Olsen, Gerald N.; and Lonnemo, Kurt R., to Sperry Rand Corporation. Power transmission. 3,646,959, 3-7-72, Cl. 137-596.12.
- Connick, William J., Jr.: See—
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- Conniff, Jay P.; Delaney, Vincent N.; and Merz, Kenneth A., to Torin Corporation. Centrifugal blower wheel method of making. 3,641,644, 2-15-72, Cl. 29-156.8.
- Connolly, Douglas P.; and Poehlein, Raymond E., to Xerox Corporation. Temperature sensing apparatus. 3,690,176, 9-12-72, Cl. 73-351.000.
- Connolly, James J.: See—
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- Connolly, John F.; Flannery, Robert J.; and Mc Collum, John D., to Standard Oil Company (Indiana). Electrochemical production of 1,4-dihydro aromatic compounds. 3,699,020, 10-17-72, Cl. 204-73.000.
- Connolly, Thomas J. Fast neutron reactor utilizing plutonium 240 fuel. 3,664,923, 5-23-72, Cl. 176-40.
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Tomlinson, Roy, 3,672,974.
- Connor, Augustus S., to Wix Corporation. Oil filter and seal means therefor. 3,677,412, 7-18-72, Cl. 210-440.000.
- Connor, Daniel S.; and Krummel, Harry Karl, to Procter & Gamble Company, The. 1,3,5-Trihydroxy-2,4,6-benzene tricarboxylic acid and water soluble salts thereof. 3,699,159, 10-17-72, Cl. 260-521.00r.
- Conpor, Donald E., to International Harvester Company. Self centering seed shoe for double disk furrow opener. 3,658,018, 4-25-72, Cl. 111-88.000.
- Conpor, Donald E.; and Boetto, Charles, to International Harvester Company. Quick attachable planter disk depth drums. 3,664,434, 5-23-72, Cl. 172-536.000.
- Connor, Donald H.; and Olson, George E., to Caterpillar Tractor Company. Thermal compensating support for turbocharger shafts. 3,692,436, 9-19-72, Cl. 417-406.000.
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Gibbs, James C.; and Daninshers, Harry, 3,677,165.
- Connor, James J. O., to Kimberly-Clark Corporation. Exploding of ammonia impregnated wood chips. 3,707,436, 12-26-72, Cl. 162-9.000.
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- Conoby, Joseph F.: See—
Bellinger, Kenneth P.; and Conoby, Joseph F., 3,647,698.
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Bishop, John M.; and Simon, Emmett F., 3,641,859.
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- Conover, Lawrence H., to Comet Model Hobbycraft Corporation. Model airplane. 3,633,306, 1-11-72, Cl. 46-76.
- Conover, Lewis: See—
Carbonetti, Emidio J., Jr.; and Conover, Lewis, 3,674,207.
- Conover, Lloyd H.: See—
Butler, Kenneth; Conover, Lloyd H.; and Woodward, Robert B., 3,699,117.
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- Conover, Lloyd H., to Pfizer Inc. 3-Methylquinoxaline-2-carboxamide-1,4-dioxides for the control of salmonella choleraesuis infections. 3,663,697, 5-16-72, Cl. 424-250.
- Conover, Lloyd H.; and Woodward, Robert B., to Pfizer Inc. Anthracyclidine-acetic acid derivatives. 3,697,552, 10-10-72, Cl. 260-351.000.
- Conover, Mc Clellan B. Container for storing and dispensing medication. 3,638,603, 2-1-72, Cl. 116-121.
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Allison, James H., 3,636,774.
Thompson, Paul, 3,660,602.
Vick, Gerald L., 3,641,812.
- Conrad, Charles F.; and Dadd, Kieth L., to Thermotron Corporation. Floor structure for a test chamber. 3,664,181, 5-23-72, Cl. 73-71.600.
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Re, Carlo; Conrad, Earl O.; and Conrad, Jack R., 3,692,682.
- Conrad, Erich Henry. Schiffli-embroidered panel and kit containing the same. 3,701,207, 10-31-72, Cl. 35-26.000.
- Conrad, Ernst; and Theander, Olof, to Lyckeby Starkelseforadling AB. Sugar substitute additive preparations of sorbitol and gluconic acid. 3,651,221, 3-21-72, Cl. 424-180.
- Conrad, Herbert A.: See—
Kaufman, Samuel; De Rocker, Donald E.; and Conrad, Herbert A., 3,645,546.
- Conrad, Horst: See—
Plagemann, Jurgen; and Conrad, Horst, 3,686,911.
- Conrad, Jack R.: See—
Re, Carlo; Conrad, Earl O.; and Conrad, Jack R., 3,692,682.
- Conrad, John Harold; Reynolds, Anthony Edward St. Aubyn; and Gadd, Edward George, to Solartron Electronic Group Limited, The. Jitter free trigger pulse generator. 3,676,707, 7-11-72, Cl. 307-260.000.
- Conrad, Joseph D., Jr.: See—
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- Conrad, Keith L., to Atlas Chemical Industries, Inc. Method of controlling density in gas-sensitized aqueous explosives. 3,642,547, 2-15-72, Cl. 149-2.
- Conrad, Kenneth C.: See—
Dinenno, Philip A., Jr.; Bonk, Joseph S.; Conrad, Kenneth C.; Moore, Rodney S.; Lochman, Harry E.; and Torello, Daniel D., 3,677,658.
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- Conrad, Lucas J., to Reynolds, R. J., Tobacco Company. Method and apparatus for classifying articles. 3,707,228, 12-26-72, Cl. 209-124.000.
- Conrad, Ludas J.; and Pope, Raymond C., to Reynolds, R. J., Tobacco Company. Apparatus for separating meat and bones including bone elevator. 3,670,882, 6-20-72, Cl. 209-2.000.
- Conrad, Martin B., to Baker Oil Tools, Inc. Through tubing cementing method. 3,633,673, 1-11-72, Cl. 166-291.
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- Conrad, Martin B. Support assembly for camper. 3,672,524, 6-27-72, Cl. 214-515.000.
- Conrad, Oswald, to Daimler-Benz Aktiengesellschaft. After-guide-blading of an axial compressor. 3,652,184, 3-28-72, Cl. 415-181.
- Conrad, Oswald, to Daimler-Benz Aktiengesellschaft. Guide blades of axial compressors. 3,694,102, 9-26-72, Cl. 415-115.000.
- Conrad Precision Industries, Inc.: See—
Thuler, Oscar, 3,706,543.
- Conrad, Sherman E., to Delavan Manufacturing Company. Swirl air nozzle. 3,693,886, 9-26-72, Cl. 239-432.000.
- Conrad, Siegfried E.: See—
Armstrong, George W.; and Conrad, Siegfried E., 3,703,950.
- Conradt, Hans; and Zoebe, Hugo, to Vereinigte Deutsche Metallwerke AG. Metal coins which can be distinguished and separated from one another by physical methods responding to magnetic properties. 3,634,890, 1-18-72, Cl. 2-199.
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Reichelt, Bernhard; Lippert, Wolfgang; Zollner, Dieter; and Kegel, Kurt, 3,684,745.
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Shinnick, James P.; and Conroy, James F., 3,680,544.
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- Conroy, Natalie Hetman, to Arizona Chemical Company, mesne. Polymerization of unsaturated fatty acids. 3,632,822, 1-4-72, Cl. 260-407.
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- Consalvo, Dante V.: See—
Ross, Thorvald S., Jr.; and Consalvo, Dante V., 3,675,810.
- Consan Pacific Incorporated: See—
Saurenman, Donald G.; and Smith, Harold W., 3,696,791.
- Consarc Corporation: See—
Wooding, Patrick J.; and Roberts, Raymond John, 3,684,001.
- Conserva, Mario: See—
Di Russo, Ettore; and Conserva, Mario, 3,706,606.
- Considine, William J.: See—
Reifenberg, Gerald H.; and Considine, William J., 3,647,833.
Reifenberg, Gerald H.; and Considine, William J., 3,652,618.
Reifenberg, Gerald H.; and Considine, William J., 3,654,367.
Reifenberg, Gerald H.; and Considine, William J., 3,673,230.
- Considine, William J.; and Seltzer, Raymond, to M & T Chemicals, Inc. Polymers of thiadiazole. 3,686,196, 8-22-72, Cl. 260-302.0sd.
- Consiglio Nazionale Delle Ricerche: See—
Boari, Gianfranco; Liberti, Lorenzo; Merli, Carlo; and Passino, Roberto, 3,679,580.
Credali, Lino; and Parrini, Paolo, 3,696,031.
De Rossi, Mario, 3,701,684.
Parrini, Paolo; Credali, Lino; and Chiolla, Antonio, 3,686,100.
- Consiglio Nazionale Delle Ricerche: See—
Colamussi, Arturo; and Molari, Pier Gabriele, 3,636,964.
Credali, Lino; and Parrini, Paolo, 3,687,842.
- Console, Giulio: See—
Vicentini, Giorgio; and Console, Giulio, 3,705,687.
- Consolidated Coal Company: See—
Gorin, Everett, 3,671,401.
Gorin, Everett; and Yavarsky, Paul M., 3,687,615.
- Consolidated Coin Company (Ireland) Limited: See—
Powell, Cyril E., 3,651,987.
- Consolidated Concrete Limited: See—
Johnson, Frederick S., 3,647,325.
- Consolidated Controls Corporation: See—
Waller, Henry A., 3,635,511.
Waller, Henry A., 3,704,853.
Wang, William S., 3,658,370.
- Consolidated Design, Inc.: See—
- Cole, Everett N., Jr., 3,702,438.
- Consolidated Electronics (Sales) Proprietary Limited: See—
Medding, Reuben; and Tyson, Graham Roland, 3,647,123.
- Consolidated Engineering Company: See—
Reuter, Brian R., 3,632,173.
- Consolidated Film Industries: See—
Sokolow, Leonard L., 3,702,733.
- Consolidated Foods Corporation: See—
Ferris, William E., 3,659,313.
Salzmann, Ferdinand F., 3,693,696.
Salzmann, Ferdinand F., 3,698,035.
- Consolidated Foods Corporation, mesne: See—
Carboni, Victor B.; and Pavlovic, Jack Dale, 3,682,282.
Gaudry, Paul E.; Gaudry, Edouard; Descaries, Raymond; and Anderson, James, 3,673,628.
- Consolidated Machines, Inc.: See—
Vincent, Daniel B.; Vincent, Daniel A.; and Roberts, George C., 3,700,017.
- Consolidated Packaging Corporation: See—
Leslie, Prystup J.; and Mc Nair, William E., 3,687,353.
- Consolidated Paper (Bahamas) Limited: See—
Brandts, Theodor Gerardus; Lichtenberger, Joseph Alois; and Bentvelzen, Joseph Maria, 3,639,199.
Langen, Marinus J. M., 3,645,068.
- Consolidated Papers, Limited: See—
Bentvelzen, Joseph Maria; and Millington, Alan Dennis, 3,700,536.
- Consolidated Products Incorporated: See—
Wesemann, Fred A., 3,685,081.
- Consolidation Coal Company: See—
Gorin, Everett; and Yavarsky, Paul M., 3,690,818.
Gorin, Everett; and Yavarsky, Paul M., 3,690,824.
Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B., 3,700,421.
Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B., 3,700,422.
Laufer, Robert J., 3,671,593.
Reichl, Eric H., 3,692,505.
Yavarsky, Paul M.; and Gorin, Everett, 3,687,614.
- Consonni, Alberto: See—
Baldratti, Giuliana; Consonni, Alberto; and Sciaky, Roberto, 3,674,817.
- Consortium fur Electrochemische Industrie G.m.b.H.: See—
Hafner, Walter, 3,654,276.
- Consortium fur Elektrochemische Industrie GmbH: See—
Vogel, Manfred; Daxer, Hilmar; Roder, Manfred; and Dietz, Wolfgang, 3,675,709.
- Constable, Charles F.; and Risley, Robert F., to Schlitz, Jos., Brewing Company. Accumulator table for a conveying system. 3,650,371, 3-21-72, Cl. 198-45.
- Constable, Charles F., to Schlitz, Jos., Brewing Company. Conveying system having an automatically deactivated drive. 3,667,589, 6-6-72, Cl. 198-127.000.
- Constable, Geoffrey Ernest Patrick, to Smiths Industries Limited. Access-control equipment and item-dispensing systems including such equipment. 3,641,497, 2-8-72, Cl. 340-149.
- Constable, Geoffrey Ernest Patrick, to Smiths Industries Limited. Access-control equipment and item dispensing systems including such equipment. 3,657,521, 4-18-72, Cl. 235-61.7.
- Constable, Geoffrey Ernest Patrick, to Smiths Industries Limited. Credit-and access-control equipment. 3,673,571, 6-27-72, Cl. 340-149.00a.
- Constable, James M., to Del Electronics Corporation. Surge voltage protection system. 3,678,341, 7-18-72, Cl. 317-61.500.
- Constan, Inc.: See—
Smith, Orville S., Jr., 3,660,858.
- Constant, James Nickolas. System for identifying objects using an encoding array for each object. 3,691,557, 9-12-72, Cl. 343-6.5ss.
- Constant, Rene, to Centre d'Etude de l'Energie Nucleaire en abrégé "C.E.N.". Lightning conductor. 3,662,083, 5-9-72, Cl. 114-4.
- Constantin Graf von Berckheim: See—
Eichmeier, Joseph, 3,702,526.
- Constantin, Jean-Claude, to Thomson-CSF. Real time fourier transform processor with sequential access memory. 3,704,826, 12-5-72, Cl. 235-156.000.
- Constantin Ranch: See—
Wagenseil, Ludwig, 3,649,134.
- Constantin Rauch: See—
Wagenseil, Ludwig, 3,669,569.
- Constantine, Nikiforos, to Minnesota Mining and Manufacturing Company. Digital differential emission X-ray gauge. 3,671,744, 6-20-72, Cl. 250-51.500.
- Constantine, Thomas T., to Fabric Research Laboratories. Method of producing shrink-stabilized composite fabrics. 3,655,474, 4-11-72, Cl. 156-178.
- Constantini, Michel: See—
Brunie, Jean-Claude; Constantini, Michel; Crenne, Noel; and Joffret, Michel, 3,681,447.
Brunie, Jean-Claude; Constantini, Michel; Crenne, Noel; and Joffret, Michel, 3,689,534.
- Constellation Science and Technology Corporation: See—

- Miller, Edwin, 3,688,269.
 Constellation Science and Technology Corporation, mesne: See—
 Crafton, Paul A., 3,654,604.
 Paull, Stephen, 3,656,112.
 Constr. Metalliques et Mecaniques Eugene Meder S.A.: See—
 Meder, Andre Fernand; and Jaeggi, Max Rudolf, 3,660,633.
 Construction Forms, Inc.: See—
 Westerlund, Robert E.; and Westerlund, Herbert A., 3,705,737.
 Construction John Brown Limited: See—
 Lawson, Darryl William; and Salter, David Stanley, 3,645,864.
 Construction Machinery Company: See—
 Lynch, Cecil G., 3,633,719.
 Construction Products Corporation: See—
 Jones, David P., 3,703,219.
 Construction Specialties, Inc.: See—
 Long, Alfred R.; and Viehmann, George A., 3,635,614.
 Olsen, Robert W.; Rodgers, David P.; and Viehmann, George A., 3,631,790.
 Constructions Mills-K.: See—
 Coppel, Georges, 3,677,382.
 Constructions Radioelectriques et Electroniques du Centre: See—
 Quillier, Jean Georges, 3,636,371.
 Construzioni Generali Farsura-Cogefar S.p.A.: See—
 Gerola, Luciano, 3,645,056.
 Contacts, Incorporated: See—
 Gwyn, Childress B., Jr., 3,666,160.
 Gwyn, Childress B., Jr., 3,667,110.
 Gwyn, Childress B., Jr., 3,686,746.
 Meisterling, John W., 3,669,334.
 Container Company of New York: See—
 Gilbert, Jack A.; and Franklyn, Stanley, 3,652,367.
 Container Corporation of America: See—
 Austin, Timothy K.; and Johnson, Fred J., 3,682,297.
 Clark, Frank E., 3,660,116.
 Collura, Peter C.; and Pintsak, William P., 3,659,704.
 Collura, Peter C.; and Pintsak, William P., 3,680,766.
 De Lorenzo, Richard G.; and Luff, Donald G., 3,680,767.
 Desmond, John D.; and Bottorman, David L., 3,656,683.
 Desmond, John D.; and Hart, Joseph J., 3,693,865.
 Donaldson, David, 3,643,855.
 Donaldson, David, 3,662,943.
 Dosi, Giovanni E., 3,640,575.
 Durham, Robert E., 3,640,445.
 Helms, Charles Robert, 3,635,452.
 Helms, Charles Robert, 3,662,879.
 Helms, Charles Robert, 3,692,232.
 Kennedy, James E.; and Koboldt, Melvin A., 3,690,506.
 La France, Armand D.; and O'Brien, David F., 3,656,613.
 La Grutta, Pascal A., 3,647,107.
 LaGrutta, Pascal A., 3,659,995.
 Liebertz, Wolfgang, 3,656,668.
 Liebertz, Wolfgang; and Starr, Anthony J., 3,672,799.
 Lindberg, Richard C., 3,636,827.
 Mahon, John V., 3,653,580.
 Mahon, John V., 3,688,972.
 Maskell, Richard N.; Merrick, William C.; and Voges, Fred P., 3,656,256.
 Massey, John V., 3,680,726.
 Merrick, William C.; and Zwierzyna, Casimir E., 3,635,330.
 Michetti, Louis C.; Haines, Grover C.; Taylor, William F.; and Nemoede, Paul A., 3,633,814.
 Mielke, Robert H., 3,659,774.
 Rada, Joseph J., 3,642,193.
 Roberts, James E.; Miller, Roy L.; Welch, Jay V.; and Barrow, Ralph E., 3,651,934.
 Roberts, James E.; Barrow, Ralph E.; and Dickerson, Robert B., 3,653,496.
 Rogers, Roy E., 3,648,881.
 Standley, Wendell E., 3,701,231.
 Starr, Anthony J., 3,642,166.
 Tanner, Donald M., 3,655,116.
 Vuillemeier, Ralph O.; and Bagnatori, Giulio B., 3,682,052.
 Walter, Richard T., 3,688,899.
 Webinger, George P., 3,672,559.
 Woelbel, Wilhelm, 3,664,239.
 Container Development Corporation: See—
 Frater, Allen H., 3,656,650.
 Container Graphics Corporation: See—
 Saunders, Philip G., 3,673,929.
 Contaldo, Joseph; and Pripeton, George, to United Engineering and Foundry Company. Method and apparatus for controlling shearing of metallic workpieces. 3,670,609, 6-20-72, Cl. 83-37.000.
 Contamination Control Laboratories: See—
 Austin, Philip R., 3,636,766.
 Conte, Alfred G., Jr.; and Reinert, Jeffrey Stanford, to Praxedes Systems, Inc. Carrier envelope for machine processing and process for making same. 3,666,926, 5-30-72, Cl. 235-61.12.
 Conte, Louis B., Jr.: See—
 Brode, George L.; and Conte, Louis B., Jr., 3,632,557.
 Conte, Silvio, to Veeder Industries Inc. Drive unit for fluid delivery pump. 3,662,866, 5-16-72, Cl. 192-02.
 Contecnix, Inc.: See—
 Chaney, Larry R.; and Coughlin, Edwin J., 3,659,247.
 Contelisis Corporation, mesne: See—
 Krehmer, Kenneth Robert; and Salmon, Isidore William, 3,634,656.
 Contemporary Research and Development Corporation: See—
 Greenspan, Donald J., 3,661,265.
 Contherm Corporation: See—
 Walsh, John C.; and D'Orsay, James A., 3,633,664.
 Conti, Cesare L. Timing device for synchronizing the slackening of the needle-thread and thread-severing with timing of the tension-slackening for overcast sewing machines. 3,635,180, 1-18-72, Cl. 112-252.
 Conti, John A., to Hughes Tool Co., Aircraft Division. Mechanical force sensing declutching mechanism. 3,658,173, 4-25-72, Cl. 198-221.
 Continental Can Company Inc.: See—
 Westfall, James E., 3,685,677.
 Zipper, Donald H., 3,689,625.
 Continental Can Company, Inc.: See—
 Armstrong, Thaddeus J.; and Ohlhaber, Jon, 3,635,619.
 Aschberger, Anton A.; and Bartels, Herbert D., 3,654,810.
 Bagguley, Richard B.; and Mascia, Carment T., 3,667,637.
 Bagguley, Richard B., 3,700,133.
 Bartels, Herbert D., 3,670,921.
 Bautz, Fred H., 3,700,250.
 Bozek, John S., 3,632,016.
 Bozek, John S., 3,646,840.
 Carnevalino, Ernest, 3,647,134.
 Cary, John T., 3,664,229.
 Chebuhar, Charles J.; and Buhle, Russell C., 3,637,137.
 Colgan, Charles E.; and Mc Ardle, Edward J., 3,641,659.
 Dike, Roy W., 3,679,785.
 Doyle, Diane J.; and Peyser, Harry A., 3,659,584.
 Duerr, Joseph W., 3,693,787.
 Erlandson, Paul M.; Aschberger, Anton A.; Roth, Donald J.; Cary, John T.; and Bartimes, George F., 3,652,818.
 Erlandson, Paul M., 3,654,422.
 Erlandson, Paul M.; Aschberger, Anton A.; and Cary, John T., 3,678,241.
 Erlandson, Paul M., 3,686,462.
 Evans, Raymond J.; and Reinhardt, George L., 3,656,513.
 Fettingier, John G.; and Manizza, Guelfo A., 3,684,156.
 Fiala, Edward J., 3,647,675.
 Fiala, Edward J., 3,694,336.
 Fox, James F., 3,688,464.
 Frankenberg, Henry E., 3,667,667.
 Frankenberg, Henry E., 3,695,201.
 Frost, Lincoln J.; and Stadler, Arnd J., 3,668,100.
 Gailus, Walter J.; and Hoenig, James R., 3,690,507.
 Galitz, Raymond F., 3,654,898.
 Galitz, Raymond F., 3,680,795.
 Gilliam, Kenneth D.; and Kehe, Alfred W., 3,650,809.
 Gor, Vishnu J.; and Manuel, Ernesto H., 3,647,520.
 Gowney, Lawrence J., 3,698,544.
 Holk, Albert J., Jr., 3,662,916.
 Holk, Albert J., Jr., 3,696,961.
 Jennings, Charles W., 3,687,354.
 Katva, Ilmari, 3,656,652.
 Katzenmeyer, James H.; and Rossi, Harry J., 3,658,235.
 Keinanen, Henry J., 3,671,356.
 Keinanen, Henry J.; and Pearson, John B., 3,688,535.
 Khoury, Nick S., 3,643,832.
 Kinnavy, James W., 3,680,740.
 Kochevar, John W., 3,696,989.
 La Rocca, James J.; and Bartolomeo, Blase J., 3,675,668.
 Lecinski, Frank H., Jr., 3,690,497.
 Manizza, Guelfo A., 3,655,115.
 Manizza, Guelfo A., 3,659,773.
 Mascia, Carmen T., 3,662,913.
 Mascia, Carmen T., 3,664,496.
 Mascia, Carmen T., 3,664,497.
 Mascia, Carmen T., 3,669,258.
 Melton, Roger Warren, 3,633,742.
 Merz, Edmund H., 3,706,394.
 Mitchell, Robert M.; and Oberkircher, Frederick D., Jr., 3,688,942.
 Moller, Jens L., 3,648,874.
 Moller, Jens L., 3,704,677.
 Morgese, Nicholas V., 3,652,005.
 Morgese, Nicholas V., 3,679,121.
 Nicholson, John B., 3,672,318.
 Norin, Robert W.; and Roth, Donald J., 3,668,365.
 O'Neill, Roger M., 3,651,299.
 Patel, Anilkumar U., 3,667,643.
 Pesce, Carl A.; and Osheff, Sheldon, 3,633,031.
 Peyser, Harry A.; and Doyle, Diane J., 3,641,992.
 Piazza, Thomas E., 3,690,545.
 Piazza, Thomas E., 3,694,289.
 Powalowski, Joseph C.; and Westfall, James E., 3,656,648.
 Prendergast, Richard E.; and Rogers, Lawrence M., 3,635,360.

- Ptak, Louis R., 3,637,103.
 Ptak, Louis R., 3,653,581.
 Ravve, Abraham; and Khamis, Joseph T., 3,671,295.
 Rossi, Harry; and Myers, John H., 3,705,681.
 Rossi, Harry J., 3,670,950.
 Roth, Donald J., 3,631,699.
 Roulo, Ronald H., 3,685,710.
 Ruekberg, Herbert S., 3,642,408.
 Ruekberg, Herbert S., 3,660,547.
 Ruekberg, Herbert S., 3,674,060.
 Ruekberg, Herbert S., 3,695,475.
 Ruekberg, Herbert S., 3,695,476.
 Ruekberg, Herbert S., 3,700,136.
 Sawert, Walter, 3,651,606.
 Shaw, Fred B., 3,637,102.
 Spruill, Edgar L., 3,639,206.
 Stanley, Thomas R.; and Mascia, Carment T., 3,687,341.
 Su, Cheh-Jen, 3,652,354.
 Szpitalak, Wesley J., 3,683,799.
 Taylor, James R. A.; and Chambers, William A., 3,635,157.
 Thompson, George W.; and Oak, John T., 3,690,279.
 Timko, Charles A., 3,673,296.
 Uncapher, Charles A., 3,637,257.
 Vandervelde, Robert E., 3,685,138.
 Voorhis, Harold W.; and Post, Bradford, 3,672,560.
 Weiss, Arthur J., 3,655,117.
 Westfall, James E., 3,677,431.
 Westfall, James E.; and Zipper, Donald H., 3,687,332.
 Westfall, James E.; Lawson, Arthur L.; and Vercillo, Peter A., 3,690,499.
 Windstrup, Robert F.; and Chebuhar, Charles J., 3,701,440.
 Winkless, Robert A., 3,675,617.
 Winkless, Robert A., 3,678,336.
 Woodrow, James R.; and Lynski, Robert R., 3,701,466.
 Continental Can Company of Canada: See—
 Blunsdon, Ronald L., 3,680,771.
 Continental Carbon Company: See—
 Dahmen, Karel R., 3,701,827.
 Latham, Burton F., Jr.; and Crull, William B., 3,669,628.
 Continental Device Corporation: See—
 Sander, Jiri, 3,632,432.
 Continental Electronics Manufacturing Co.: See—
 Shafer, James F., 3,634,610.
 Continental Elektroindustrie Aktiengesellschaft: See—
 Thebis, Eberhard, 3,683,697.
 Continental Engineering, Ingenieursbureau voor de Procesindustrie N.V.: See—
 Thijssen, Henricus A. C., 3,649,294.
 Continental Granite Corporation: See—
 Grage, Casper R.; and Vessels, Theodore R., 3,635,207.
 Continental Gummi-Werke Aktiengesellschaft: See—
 Bartsch, Friedrich; and Blum, Heinrich, 3,643,315.
 Bernitz, Bernhard, 3,669,484.
 Johannsen, Peter; and Kohler, Robert, 3,682,218.
 May, Kurt; and Johannes, Gunter, 3,693,687.
 Menell, Hans, 3,687,757.
 Pusch, Dietrich, 3,679,158.
 Twardzik, Georg, 3,664,404.
 Volmer, Edmund, 3,676,282.
 Wittneben, Hermann, 3,665,993.
 Wittneben, Hermann, 3,689,338.
 Continental Industries, Inc.: See—
 Cole, Judson C., 3,703,827.
 Continental Instruments Corporation: See—
 Teller, Edward M., 3,664,247.
 Continental Linoleum-Union-Betriebs AG: See—
 Berglund, Per Henrik Sixten; Fanto-Kurtos, Peter Robert; and Mattson, Nils Albert Uno, 3,701,621.
 Continental Machines, Inc.: See—
 Berkholes, Gordon, 3,670,457.
 Mills, Albert D.; and Ruhland, Walter F., 3,664,776.
 Continental Oil Company: See—
 Baldwin, David E., Jr., 3,702,009.
 Banks, William P.; and Harwood, William H., 3,649,481.
 Barrere, Clem A., Jr.; and Caudle, Danny D., 3,632,504.
 Bishop, Clyde E., 3,652,611.
 Blubaugh, Robert L.; Ruckle, Robert A.; and Watts, Hubert J., 3,704,522.
 Boyer, Lyndon D.; Coldiron, Arnold L.; and Wong, Soon Y., 3,655,801.
 Campbell, Hollis O.; Fetrow, John W.; and Mitchell, Kim L., 3,704,681.
 Caudle, Danny D.; and Carlberg, Bobbie L., 3,651,868.
 Chen, Chi-Sin, 3,660,244.
 Culter, John C.; and McClafflin, Gifford G., 3,692,676.
 Diltz, Emory E., 3,681,748.
 Feighner, George C.; Kerfoot, Oliver C.; Krehbiel, Delmar D.; and Nicks, Gene E., 3,661,780.
 Feighner, George C.; and Nicks, Gene E., 3,662,012.
 Ferree, Carman M.; and Miller, Douglas F., 3,681,749.
 Fetrow, John W.; and Mitchell, Kim L., 3,648,642.
 Folmer, Orville F., Jr., 3,697,750.
 Gant, Preston L., 3,693,323.
 Gordon, Ronnie D., 3,664,966.
 Gordon, Ronnie D., 3,696,084.
 Goupillaud, Pierre L., 3,652,980.
 Groves, William L., Jr., 3,640,882.
 Hackett, Homer L.; Cullison, David A.; and Peveto, Edmond A., 3,681,014.
 Hackett, Homer L.; and Peveto, Edmond A., 3,691,239.
 Harwood, William H., 3,655,536.
 Harwood, William H., 3,672,965.
 Harwood, William H.; and Banks, William P., 3,673,067.
 Hofgesang, Edwin M., 3,671,460.
 Hood, Larry H., 3,652,321.
 Hunt, Mack W.; Rogers, Lynn C.; and Sias, Roy C., 3,661,777.
 Johnson, Morris A.; and Yang, Kang, 3,641,172.
 Johnson, Morris A.; and Yang, Kang, 3,642,920.
 Johnson, Morris A.; Washecheck, Paul H.; Yang, Kang; and Starks, Charles M., 3,650,918.
 Kerfoot, Oliver C.; and Duchmann, George W., 3,703,559.
 Kostas, George J., 3,707,136.
 Lindblade, Paul V.; and Mathieu, Paul G., 3,638,177.
 Lundeen, Allan J.; and Yates, James F., 3,641,085.
 Marshall, David W.; and Feighner, George C., 3,632,660.
 Mathieu, Paul G.; and Lindblade, Paul V., 3,668,620.
 Matson, Ted P., 3,637,512.
 Maxson, Orwin G.; and Hunt, Mack W., 3,639,373.
 McClafflin, Gifford G., 3,637,885.
 McClafflin, Gifford G., 3,642,850.
 McDonald, Edward H.; and Banks, William P., 3,707,456.
 McDonald Edward Harvey; and Banks, William P., 3,640,802.
 McGuire, Stephen E., 3,636,016.
 Motz, Kaye L.; and Lundeen, Allan J., 3,657,301.
 Neuwirth, Martin B., 3,704,327.
 Payton, Charles E.; and Patterson, Waldo C., 3,654,460.
 Portwood, Owen, Jr.; Starks, Charles M.; and Washecheck, Paul H., 3,641,163.
 Rickard, Robert S.; and Whitfill, Donald L., 3,655,358.
 Rogers, Lynn C., 3,661,622.
 Ruckle, Robert A.; and Shepard, George E., 3,650,034.
 Sanderson, Charles L.; and Sauer, Earl S., 3,671,601.
 Scott, William P.; and Rogers, Lynn C., 3,671,012.
 Sias, Roy C., 3,691,075.
 Sias, Roy C., 3,703,475.
 Smith, Bill, 3,680,520.
 Spangler, Carl D., Jr.; Radd, Frederick J.; and Wolfe, Louis H., 3,704,333.
 Sparlin, Derry D., 3,692,116.
 Sparlin, Derry D., 3,698,850.
 Stafford, Jay H., 3,690,402.
 Starks, Charles M.; and McClafflin, Gifford G., 3,705,925.
 Stovall, William B., 3,652,322.
 Sutko, Adolph A., 3,690,341.
 Tillman, Richard M.; and Whitfill, Donald L., 3,632,329.
 Trice, Blount C., 3,632,213.
 Trice, Blount C., 3,657,455.
 Van Der Linde, Harold E., 3,672,322.
 Washecheck, Paul H., 3,692,809.
 Washecheck, Paul H., 3,658,896.
 Washecheck, Paul H., 3,661,986.
 Washecheck, Paul H., 3,692,810.
 Washecheck, Paul H., 3,696,134.
 Washecheck, Paul H.; and Starks, Charles M., 3,704,319.
 Wilhite, Glen Paul; and Martin, William L., 3,654,691.
 Yang, Kang; Reedy, James D.; and Stanton, Jimmy H., 3,649,197.
 Yang, Kang; Reedy, James D.; Johnson, Morris A.; and Harwood, William H., 3,649,482.
 Young, Gary Clifford; and Klempeter, Joseph A., 3,696,587.
 Zavodny, Alfred T., 3,656,067.
 Continental Ore Corporation: See—
 Litz, John E., 3,681,016.
 Theisen, Roger Pierre, 3,669,178.
 Continental Pet Innovations, Inc.: See—
 Levensohn, David, 3,669,573.
 Continental Radiant Glass Heating Corporation: See—
 Needham, Robert L., 3,691,345.
 Continental Rubber Works: See—
 Malutich, William J., 3,679,345.
 Speers, James R., 3,652,123.
 Continental Scale Corporation: See—
 Hutchinson, William Y.; and Kushmuk, Walter P., 3,667,561.
 Hutchinson, William Y.; and Kushmuk, Walter P., 3,703,935.
 Continental Sensing Inc.: See—
 Vaughan, Charles L.; and Vesser, William C., 3,683,696.
 Continental Tapes, Incorporated: See—
 Dahl, Rolf, 3,671,301.
 Dahl, Rolf, 3,702,781.
 Contois, Lawrence E.: See—
 Brantly, Thomas B.; Contois, Lawrence E.; and Fox, Charles J., 3,658,520.

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Routh, Larry L.; and Contratto, James, 3,683,312.
Routh, Larry L.; and Contratto, James, 3,688,240.
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Furrer, Eduard, 3,672,399.
La Roche, Ulrich, 3,653,774.
Meier, Erwin, 3,637,240.
Meier, Ghert, 3,670,778.
Schoen, Kurt, 3,665,295.
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Parker, Bernard, 3,648,158.
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Lowery, William E., 3,691,711.
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Brown, Buck C., 3,678,199.
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Zeuner, Kenneth W., 3,695,293.
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Bloch, James E., 3,646,658.
Brown, Richard W., 3,659,277.
Graham, Walton; and Keegan, Robert R., 3,680,122.
Graham, Walton; Melnick, Irving E.; and De Filippis, Tullio, 3,691,516.
Jones, David A., 3,676,710.
Mayer, William N., 3,641,299.
Norberg, Gayle R., 3,699,524.
Price, Robert H., 3,701,135.
Wasylenko, William J., 3,663,014.
- Control Data Corporation, mesne: See—
Graham, Walton; Gardner, Sheldon; and Cabot, John, 3,657,693.
La Tourrette, James T.; Newstein, Maurice C.; and Rabinowitz, Paul J., 3,641,458.
Reynolds, Andrew C., Jr.; Carragan, John F.; and Yagusic, George J., 3,651,458.
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Hulsman, William H., 3,701,137.
Hulsman, William H., Jr., 3,666,973.
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Gove, Donald C.; Mullins, Barry W.; and Rousseau, Edmund G., 3,660,838.
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McMahan, William H., 3,668,777.
McMahan, William H., 3,670,256.
McMahan, William H., 3,670,257.
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Hawryluk, Alexandra S.; and Hawryluk, John, 3,675,396.
- Control Technology, Inc.: See—
Kaufman, Theodore Phillip, 3,704,374.
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Lejon, Jean C., 3,694,633.
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Young, Don L., Jr., 3,667,313.
- Controlex Corporation of America: See—
Kompanek, Andrew Joseph, 3,659,096.
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Widmayer, Don F., 3,659,147.
- Controlled Power Corporation: See—
Koltuniak, Michael A.; and Urquhart, Thomas N., 3,641,419.
Plantholt, Robert G.; and Koltuniak, Michael A., 3,637,960.
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Wang, Fuh-Lin, 3,668,650.
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Baumoe, Joseph, 3,632,922.
Baumoe, Joseph, 3,665,494.
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- Giwosky, Harry L., 3,654,954.
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- Orth, Charles D., 3,699,778.
- Proctor, Robert H., 3,667,247.
- Stratheim, Donald M.; Thornbery, James M.; and Willcox, Dale F., 3,650,157.
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- Yatsushiro, Kenji; and Kuchuris, George F., 3,639,790.
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Mc Neil, Daniel E., 3,678,261.
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Sandenburgh, George R., 3,643,916.
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Beckwith, Merton M., 3,649,478.
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Welch, Archibald H., 3,674,254.
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Burststein, Norman, 3,648,825.
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Kampfer, David H., 3,637,095.
Kampfer, David H., 3,646,752.
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Burgis, William J., 3,642,113.
Burgis, William J.; and Coleman, Marvin H., 3,650,376.
Burt, Harold S., 3,642,117.
- Coaviser, Stephen A.: See—
Collins, John J.; Conviser, Stephen A.; Anderson, Richard A.; and Manchanda, Krishan D., 3,660,967.
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Moore, George G. I.; and Conway, Alvin C., 3,637,845.
Moore, George G. I.; and Conway, Alvin C., 3,705,185.
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Wu, Joseph; and Conway, Joseph Rae, 3,706,137.
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Gaffney, Bernard J., 3,700,521.
Larsen, Ronald L., 3,674,898.
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Neal, Vernon L.; and Conyer, Jerry D., 3,653,463.
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Rein, Hans-Martin; and Conze, Peter, 3,669,760.
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Boeters, Karl-Ernst; Conzelmann, Gerhard; Streit, Klaus; and Fleischer, Hans-Joachim, 3,662,228.
Boeters, Karl-Ernst; Streit, Klaus; Conzelmann, Gerhard; Schmid, Hermann; and Fleischer, Hans-Joachim, 3,662,720.
Dieterich, Manfred; Schirmer, Gunter; Conzelmann, Gerhard; Harlin, Walter; Hausteim, Gerhard; and Ocker, Wilhelm, 3,652,924.

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- Conzinc Riotinto of Australia Limited: See—
Worner, Howard Knox, 3,634,069.
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Worner, Howard K., 3,652,069.
Worner, Howard Knox, 3,632,335.
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Mahlmann, James P.; Coogan, Joseph F., III; and Mazzaferro, Gene Alfred, 3,706,574.
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Hilleagass, Kenneth P.; and Cook, Albert W., 3,687,244.
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- Cook, Arnold M., to Norton Company. Spray nozzle orifice member. 3,647,147, 3-7-72, Cl. 239-599.
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- Cook, Charles F.: See—
Guillory, Jack P.; and Cook, Charles F., 3,636,348.
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- Cook, Charles F., to Boise Cascade Corporation. Palletized container bottom construction. 3,695,506, 10-3-72, Cl. 229-37.000.
- Cook, Charles R., Jr., to International Telephone and Telegraph Corporation. Method of fabricating a semiconductor device. 3,676,922, 7-18-72, Cl. 29-577.000.
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Balogh, Edward, Jr.; Cook, Daewen J.; Bube, Carl E.; and Airt-hart, Robert V., 3,688,263.
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Carpenter, Peter E. G.; and Cook, David L., 3,693,121.
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Patel, Vinayak K., 3,655,484.
- Yereance, Robert A.; and Erlenbach, Harold W., Jr., 3,703,665.
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Cook, Franklin W., 3,659,352.
- Cook, Francis W., Jr., to New Britain Machine Company. The Purg-ing guard for plastics injection-molding machines. 3,635,628, 1-18-72, Cl. 425-151.
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Gaines, Jerry L.; Ebert, Paul J.; Mancebo, Lloyd; and Cook, Frederick D., 3,665,236.
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Baker, Philip G.; Cook, Gerald H.; and Downey, Rogers B., 3,687,051.
Downey, Rogers B.; and Cook, Gerald H., 3,642,229.
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Kay, Leslie; Maginness, Maxwell Glynn; and Cook, Graham Bramwell, 3,675,472.
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Jefferson, Leo J.; and Crosby, Lenard J., 3,672,576.
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- Cook, James M., III, to Oakland Plastics Corporation. Pallet. 3,699,901, 10-24-72, Cl. 108-58.000.
- Cook, James T.: See—
Lanning, Charles T.; and Cook, James T., 3,646,904.
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- Cook, John W.: See—
Cook, John W.; and Davis, Lester M. (said Davis assor. to said), 3,643,370.
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Carder, Victor H.; and Cook, Kenneth L., 3,675,798.
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- Cook, Kenneth U., to Phillips Petroleum Company. Apparatus and method for forming a blowing pin opening on a parison. 3,651,725, 3-28-72, Cl. 83-165.
- Cook, Leo W.: See—
Borck, Howard O.; and Cook, Leo W., 3,667,582.
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- Cook, Louis S.: See—
Yavorsky, Paul J.; and Cook, Louis S., 3,634,112.
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Clay, Robert B.; Cook, Melvin A.; and Udy, Lex L., 3,660,181.
- Cook, Melvin A.; and Udy, Lex L., to Intermountain Research and Engineering Company, Inc. High energy explosive compositions and method of preparation. 3,658,607, 4-25-72, Cl. 149-2.
- Cook, Melvin A.; and Balli, Frederick K., to Intermountain Research and Engineering Company, Inc. Explosive compositions and method of preparation. 3,660,182, 5-2-72, Cl. 148-18.
- Cook, Melvin S., to Holobeam, Inc. High-capacity optical image scanning memory system and card verification system. 3,705,293, 12-5-72, Cl. 235-61.70b.
- Cook, Michael W., to Goodyear Tire & Rubber Company, The. Push-on bridge washer for pneumatic tire tubes. 3,699,840, 10-24-72, Cl. 85-36.000.
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Modine, Arthur B.; Huggins, Homer D.; and Cook, Neal A., 3,707,185.
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Kincheloe, Richard D.; and Scherrer, Joseph H., 3,644,566.
- Cook, Ralph J.; Moline, Clifford C.; and Schumann, Joseph M., to Products Research & Chemical Corporation. Means to inject a plastic into a cavity to produce a replica thereof. 3,707,146, 12-26-72, Cl. 128-2.00r.
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Wise, Harold L.; Walters, Arley; and Cook, Ray G., 3,695,844.
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- Cook, Richard L., to Marshall Industries. Self-sealing structure for use as a fluid barrier in containers. 3,664,904, 5-23-72, Cl. 161-50.
- Cook, Richard L., to Goodyear Aircraft Corporation. Hard faced plastic armor plate. 3,700,534, 10-24-72, Cl. 161-38.000.
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Bergmann, Eugen O.; and Cook, Robert L., 3,658,145.
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- Cook, Robert W.; Bissailon, Edmond J.; and Dickinson, Robert P., to Fischer-Cook, Inc. Internal pipe clamp applying apparatus and method. 3,642,032, 2-15-72, Cl. 138-97.
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Adams, Jay C.; and Cook, Russell E., 3,673,811.
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- Cook, Shirl E.: See—
Kobetz, Paul; Lindsay, Kenneth L.; and Cook, Shirl E., 3,691,221.
Williams, Kenneth C.; and Cook, Shirl E., 3,644,451.
- Cook, Shirl E.; and Williams, Kenneth C., to Ethyl Corporation. Method of making alkyl lead compounds. 3,644,450, 2-22-72, Cl. 260-437.
- Cook Testing Co.: See—
Radig, Gary A.; Rowell, Cliva A., Jr.; and Edwards, Harvey R., 3,698,477.
- Cook, Thomas E. Moldable hydrated magnesium oxide and the formation of molded articles therefrom. 3,652,305, 3-28-72, Cl. 106-58.
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- Cook, Vernon W., Jr. Float controlled circuit breaker means. 3,686,534, 8-22-72, Cl. 317-123.000.
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- Cook, William A. Rotatable X-ray grid with non-stationary center and method. 3,684,885, 8-15-72, Cl. 250-62.000.
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- Cook, William H., to Monsanto Company. Method and apparatus for controlling polymerization reactions. 3,668,096, 6-6-72, Cl. 204-165.
- Cook, William H., to Bunker-Ramo Corporation. The. Automatic photo comparison system. 3,678,190, 7-18-72, Cl. 178-6.800.
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Melott, Norman W., 3,673,766.
- Cooke, Albert Edward, to Trip-Lite Limited. Adjustable driving wheels. 3,661,024, 5-9-72, Cl. 74-230.23.
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- Cooke Engineering Company: See—
Lancaster, Jesse F., 3,650,306.
Lancaster, Jesse F., 3,665,129.
- Cooke Engineering Company, The: See—
Lancaster, Jesse F., 3,692,966.
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Beardmore, Alfred Cyril; Cooke, Geoffrey Cyril; and Stringer, Donald Charles, 3,647,010.
- Cooke, Geoffrey Cyril, to Avery, W. & T., Limited. Weighing apparatus. 3,667,560, 6-6-72, Cl. 177-211.
- Cooke, George A.; Dugger, Harry A.; and Houlihan, William J., to Sandoz-Wander, Inc. Processes for imidazo [2,1-a] isoindoles. 3,657,268, 4-18-72, Cl. 260-309.6.
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- Cooke, George H. Marine toilet. 3,665,521, 5-30-72, Cl. 4-10.
- Cooke, Harry F.; Weber, Roger L.; Hall, Donald B.; and Whitten, Darrell W., to Texas Instruments, Incorporated. Varactor tuned microstrip tuner. 3,659,205, 4-25-72, Cl. 325-445.
- Cooke, John, to Gullick Dobson Limited. Control systems for self-advancing mine roof supports. 3,661,056, 5-9-72, Cl. 91-413.000.
- Cooke, Robert F., to Unitec Industries, Inc. Wound filament ladder. 3,674,110, 7-4-72, Cl. 182-46.000.
- Cooke, Robert R., to Procter & Gamble Company, The. Co-milling process for making culinary mixes. 3,694,230, 9-26-72, Cl. 99-94.000.
- Cooke, Strathmore R. B.: See—
Dorenfeld, Adrian C.; Dick, Fernando Jorge; and Cooke, Strathmore R. B., 3,642,464.
- Cooke, Wilbur P. Remote control apparatus for motorized vehicles. 3,655,006, 4-11-72, Cl. 180-77.
- Cooking Testing Co.: See—
Radig, Gary A., 3,667,505.
- Cooksey, Frank; Dix, Terence A.; and Hobson, David J. Curtain suspension rails. 3,705,439, 12-12-72, Cl. 16-94.000.
- Cooksey, R. Nelson: See—
Cassel, Thomas R., 3,653,696.
- Cooksey, William Harold, to Lucas, Joseph, (Industries) Limited. Vacuum operable units for use with ignition distributors. 3,650,253, 3-21-72, Cl. 123-117.
- Cooksey, William Harold, to Lucas, Joseph, (Industries) Limited. Ignition distributor with a support plate for the contact assembly held in position by zone resilience. 3,668,339, 6-6-72, Cl. 200-19.000.
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Wardlaw, Russell; and Cole, Robert Peter, 3,637,004.
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Cookson, William, 3,699,737.
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Cookson, William, 3,690,085.
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Cookson, William, 3,704,643.
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- Cooley, Michael P. Decorator garbage and trash container. 3,647,102, 3-7-72, Cl. 220-17.
- Coolidge, Anson S.: See—
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- Cooling Developments Ltd.: See—
Murphy, Edmund, 3,667,864.
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- Cooling, Robert O.: See—
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- Coon, Clifford L., to Stanford Research Institute. Polychloro amides and process for preparing them. 3,673,252, 6-27-72, Cl. 260-564.00r.
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- Coon, David S.: See—
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- Coon, James A.: See—
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Severn, Alpha, 3,682,449.
- Coon, James A. Quick release female plug. 3,643,202, 2-15-72, Cl. 339-75.
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- Coon, James A. Beveling attachment for belt sanders. 3,668,809, 6-13-72, Cl. 51-135.00r.
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- Coonce, Carroll A.: See—
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Busch, William Larry, 3,694,933.
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- Coope, Robert L. Collet closing mechanism for a machine tool. 3,666,279, 5-30-72, Cl. 279-50.
- Cooper, Abraham J. Precision investment casting apparatus. 3,648,760, 3-14-72, Cl. 164-244.
- Cooper, Alan: See—
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- Cooper, Alfred R.; and Young, Charles Gilbert, to American Optical Corporation. Laser structures. 3,646,472, 2-29-72, Cl. 331-94.5.
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- Cooper, Bernard, to International Telephone and Telegraph Corporation. Angular modulation direction finding receiver. 3,680,125, 7-25-72, Cl. 343-115.000.
- Cooper Bros., (Bordesley) Limited: See—
Fowell, Ian Gordon George, 3,631,998.
- Cooper, Bryan E.: See—
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- Cooper, Charles R.: See—
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- Cooper, David E., to Texaco Inc. Oxidative regenerating crystalline aluminosilicates with recycle gas treatment. 3,649,559, 3-14-72, Cl. 252-416.
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- Cooper, Donno W., to International Rubber Industries, Inc. Tire chucking device. 3,674,067, 7-4-72, Cl. 144-288.00a.
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- Cooper, Guy F. System for determining the orientation of an object by employing plane-polarized light. 3,633,212, 1-4-72, Cl. 346-107.
- Cooper, Hal B. H. Process for producing a dihaloborane-containing stream. 3,684,462, 8-15-72, Cl. 423-276.000.
- Cooper, Hal B. H. Alkali metal production. 3,695,864, 10-3-72, Cl. 75-66.000.
- Cooper, Henry R. Floor joist stabilizer. 3,667,786, 6-6-72, Cl. 287-20.94.
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- Cooper, Herbert W., to Westinghouse Electric Corporation. Interferometer and angle encoding navigation system. 3,697,997, 10-10-72, Cl. 343-108.00r.
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- Cooper, Hugh S., to Cooper Metallurgical Corporation. Rust and heat resisting ferrous base alloys containing chromium and aluminum. 3,676,109, 7-11-72, Cl. 75-124.000.
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Sauder, Earl R., 3,653,783.
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- Cooper, Irwin; Parker, Wilbur Allen; and Melnick, Daniel, to CPC International Inc. Process for making hexitol coated nuts. 3,671,266, 6-20-72, Cl. 99-126.000.
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- Cooper, James R., to Chemical Refiners, Inc. Cyclic integrated copper process. 3,640,703, 2-8-72, Cl. 75-101.

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Baig, Reginald; Cooper, Joseph Ernest; and Meek, Louis, 3,680,508.
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- Cooper, Julius, to Ideal Toy Corporation. Toy robot. 3,703,048, 11-21-72, Cl. 46-148.000.
- Cooper, Kenneth, to Gullick Dobson Limited, Inc. Mine roof support control system. 3,664,138, 5-23-72, Cl. 61-45.00d.
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- Cooper, Lawrence E.; and Peterson, Robert W., to Texas Instruments, Incorporated. Circuit breaker. 3,651,436, 3-21-72, Cl. 335-13.
- Cooper, Leon M., to International Business Machines Corporation. Copying system featuring alternate developing and cleaning of successive image areas on photoconductor. 3,637,306, 1-25-72, Cl. 355-15.
- Cooper, Lloyd R., to Heppenstall Company. Production of large steel ingots with consumable vacuum arc hot tops. 3,696,859, 10-10-72, Cl. 164-52.000.
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Cooper, Hugh S., 3,676,109.
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- Cooper, Michael Lakin, to Imperial Chemical Industries Limited. Coated woven materials. 3,660,150, 5-2-72, Cl. 117-138.8.
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- Cooper, Pauline E. Adjustable pet feeding stand. 3,651,787, 3-28-72, Cl. 119-51.
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Wing, Henry; and Cooper, Ray, 3,685,117.
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- Cooper, Robert J.; and Camell, Victor V., to Nobel Metals, Inc. Silver recovery device for photo fixer solutions. 3,663,416, 5-16-72, Cl. 204-272.
- Cooper, Robert S.; and Wood, Donald C., to De Soto, Inc. Production of low silica content dry, granular automatic dish washing detergent. 3,682,829, 8-8-72, Cl. 252-99.000.
- Cooper, Robin D. G.: See—
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- Cooper, Roy M., to Olin Corporation. Mercury cell having rotating anodes. 3,707,453, 12-26-72, Cl. 204-212.000.
- Cooper, Russell B.: See—
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- Cooper, Stuart B., to Honeywell Information Systems Inc. Communications apparatus for transmitting and receiving synchronous and asynchronous data. 3,681,529, 8-1-72, Cl. 178-70.00r.
- Cooper, Thomas A.: See—
Robertson, Odes B.; Cooper, Thomas A.; and Moorer, Henry D., 3,642,611.
- Cooper, Thomas Allen: See—
Parker, Levi Christy; Cooper, Thomas Allen; and Meadows, James Lawson, 3,691,246.
- Cooper, Tinsley Laboratories, Inc.: See—
O'Neill, Robert C., 3,644,448.
- Cooper Tire & Rubber Company: See—
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- Cooper, William J., to Mine Safety Appliances Company. Composition for metal plating of plastics. 3,661,783, 5-9-72, Cl. 252-79.2.
- Cooper, William W., IV; and Shea, Edward M., to Abcor, Inc. Process for casting integrally supported tubular membranes. 3,676,193, 7-11-72, Cl. 117-94.000.
- Cooperman, Michael, to RCA Corporation. High speed set-reset flip-flop. 3,671,768, 6-20-72, Cl. 307-289.000.
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Mansfield, Matthew; and Cooperman, Morton, 3,705,462.
- Coopersmith, Leo; and Woodman, Frank H., Jr., to Ives, H. B., Company, The. Door stop and holder. 3,655,228, 4-11-72, Cl. 292-79.
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Bly, Ray E., 3,672,527.
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Pearce, Ronald A., 3,672,208.
- Coors Porcelain Company: See—
Beniga, Duane H., 3,666,613.
- Buck, Robert W., 3,661,595.
- Hartmeister, Ruben J.; and Maytag, John Hardy, 3,665,853.
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- Maytag, John Hardy, 3,696,657.
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Moss, James R.; Roe, Richard F.; Coubrough, Lawrence E.; and Buck, Robert W., 3,697,836.
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Treherne, Thomas Harvey; and Coote, Ewart Peter, 3,645,329.
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- Cope, Geoffrey Wilton, to Dresser Industries, Inc. Automatic coupling system for freight cars. 3,696,941, 10-10-72, Cl. 213-76.000.
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- Copeland, Charles R., to General Motors Corporation. Engagement control of friction drives. 3,674,121, 7-4-72, Cl. 192-52.000.
- Copeland, Clinton R.: See—
McLeod, Garth M.; Copeland, Clinton R.; and Rieger, Gilbert N., 3,675,287.
- Copeland Corporation, mesne: See—
King, Robert W., 3,680,988.
- Copeland, George G., to Copeland Systems, Inc. Two-stage lime mud calciner. 3,669,430, 6-13-72, Cl. 263-21.00a.
- Copeland, George G., to Copeland Systems, Inc. Kraft liquor recovery system including physically isolated oxidation and reduction stages. 3,674,630, 7-4-72, Cl. 162-30.000.
- Copeland, James L.: See—
Mizuno, William G.; Copeland, James L.; and Scholze, Arlene E., 3,700,599.
- Copeland, John A., III, to Bell Telephone Laboratories, Incorporated. Microphone comprising LSA oscillator. 3,649,932, 3-14-72, Cl. 332-2.

- Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Domain propagation arrangement. 3,636,531, 1-18-72, Cl. 340m174.
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- Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Stacking arrangement which provides self-biasing for single wall domain organizations. 3,678,478, 7-18-72, Cl. 340-174.0tf.
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- Copeland, John S., to Addressograph-Multigraph Corporation. Copy apparatus. 3,702,096, 11-7-72, Cl. 95-89.00r.
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Gannaway, Edwin L., 3,695,786.
- Copeland Systems, Inc.: See—
Copeland, George G., 3,669,430.
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Seelander, John Marshall, 3,653,843.
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Smith, Donald Arthur; and Copenhagen, Donald M., 3,637,394.
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Lorenz, Donald H.; Randall, David I.; and Copes, Joseph P., 3,635,898.
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- Copley, Stephen M.; Giamei, Anthony F.; Hornbecker, Merton F.; and Kear, Bernard H., to United Aircraft Corporation. Casting single crystal articles. 3,690,368, 9-12-72, Cl. 164-350.000.
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Barrett, Robert E., 3,646,168.
- Bishop, William A., 3,669,722.
- Gerlicher, Robert A., 3,650,952.
- Meredith, Curtis L.; and Von Bodungen, George A., 3,657,395.
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- Meredith, Curtis L.; Barrett, Robert E.; and Bishop, William A., 3,683,050.
- Sunseri, Ronald H., 3,645,993.
- Wirth, Kenneth H., 3,637,617.
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- Copp, Albert R. Method for making twisted cable. 3,695,027, 10-3-72, Cl. 57-162.000.
- Coppel, Georges, to Constructions Mills-K. Flexible bearing for a conveyor roller capable of being incorporated in a rolling plane. 3,677,382, 7-18-72, Cl. 193-35.00b.
- Coppen, Alec James; and Metral, Jean-Pierre, to Delandale Laboratories Limited. Dosage unit sustained release oral powdered lithium salt composition for manic depressive or depressive illness prophylactic therapy. 3,641,236, 2-8-72, Cl. 424-19.
- Coppens, Mattheus Johannes Martinus; and Mannaerts, Livinus Eduardus Maria Jozephus, to Inland Steel Company. Disposable liquefied gas container and burner outlet fitting therefor. 3,684,132, 8-15-72, Cl. 222-5.000.
- Copper Range Company: See—
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- Copping, Keith Philip. Injection moulded plastic cup-like article. 3,679,119, 7-25-72, Cl. 229-1.500.
- Coppinger, Eugene A.; and Johnson, Benjamin M., to United States of America, Atomic Energy Commission. Production of uranium and plutonium carbides and nitrides. 3,697,436, 10-10-72, Cl. 252-301.10r.
- Coppins, Cray J. Door sill. 3,667,164, 6-6-72, Cl. 49-469.
- Coppola, Mario. Device for the automatic molding of paste-like, solidifiable products, such as, for instance, cosmetics and the like. 3,677,677, 7-18-72, Cl. 425-109.000.
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- Copystatics Manufacturing Corporation: See—
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- Aasen, Torulf, 3,673,419.
- Aasen, Torulf F.; Mogil, Bernard; and Sepulveda, William, Jr., 3,700,231.
- Nordine, Richard, 3,676,691.
- Thomas, Herbert, 3,698,815.
- Thomas, Herbert P.; Hartman, Thomas E.; and Aasen, Torulf F., 3,639,057.
- COQ-France: See—
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- Coquelin, Robert, to Ethylene-Plastique. Apparatus for manufacture of tubular components from plastics material. 3,663,134, 5-16-72, Cl. 18-14.
- Corain, Benedetto: See—
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- Coran, Aubert Y., to Monsanto Company. Epoxy resin compositions. 3,637,591, 1-25-72, Cl. 260-47.
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- Coran, Aubert Y.; Kerwood, Joseph E.; and Trivette, Chester D., Jr., to Monsanto Company. 1,4-Bis-(cycloalkylthio)pyperazines. 3,681,356, 8-1-72, Cl. 260-268.00s.
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- Corbach, Klaus, to Fischer, Georg, AG. Numerical positional control. 3,672,834, 6-27-72, Cl. 235-151.110.
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- Corbett, Robert Lee, Jr. Centrifugal fan. 3,669,563, 6-13-72, Cl. 415-211.000.
- Corbett, Sydney C., to Hockley Chemical Company Limited, The. Apparatus for treating articles with liquid treatment media. 3,693,639, 9-26-72, Cl. 134-69.000.

- Corbett, William H.: See—
Brejcha, Robert J.; and Corbett, William H., 3,696,669.
- Corbett, William H.; Brunell, Albert D.; and Koharchik, George A., to Champion Spark Plug Company. Electric steam vaporizer. 3,637,978, 1-25-72, Cl. 219-284.
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- Corbin, Paul. Automobile suspension. 3,692,324, 9-19-72, Cl. 280-96.20r.
- Corbin, Ralph L.; Jones, Richard A.; and Byers, Robert G., to General Motors Corporation. Battery cover with integral venting system. 3,666,564, 5-30-72, Cl. 136-170.
- Corbin, Raymond Le Rae, to Johns-Manville Corporation. Reinforced fibrous felts for roofing shingle manufacture. 3,707,432, 12-26-72, Cl. 161-141.000.
- Corbitt, John Bruce. Weight platform apparatus in a weighing machine. 3,658,144, 4-25-72, Cl. 177-258.
- Corbridge, Peter J.: See—
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- Corcoran, John W., to Zenith Radio Corporation. Holographic image recording and reproducing system. 3,657,473, 4-18-72, Cl. 178-6.7.
- Corcoran, Joseph D. Traction cradle appliance. 3,675,646, 7-11-72, Cl. 128-75.000.
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- Corcoran, Vincent J.; Cupp, Richard E.; and Gallagher, James J., to Martin-Marietta Corporation. Phase-locked far infrared laser. 3,689,851, 9-5-72, Cl. 331-94.500.
- Cordell Hubert, Sr. Wedge and support for a temporary fence. 3,670,468, 6-20-72, Cl. 52-298.000.
- Corder, Joe B. Extractor and pusher. 3,696,496, 10-10-72, Cl. 29-260.000.
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- Cordes, Karl-Heinz: See—
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- Cordes, Linus F., to General Electric Company. Method of making resistor thin films by reactive sputtering from a composite source. 3,703,456, 11-21-72, Cl. 204-192.000.
- Cordes, Ronald A., to Esso Research and Engineering Company. Cyclones to lessen fouling. 3,675,401, 7-11-72, Cl. 55-394.000.
- Cording, Wesley Townsend, to ESB Incorporated. Tubular type positive plates. 3,647,546, 3-7-72, Cl. 136-43.
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Dyck, Manfred F., 3,639,141.
- Terry, Reese S., Jr., 3,681,674.
- Williamson, Donald E., 3,674,009.
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Stark, Sven Olof Soren, 3,698,624.
- Cordrey, Richard N., to Armo Steel Corporation. Remote controlled power brake. 3,685,288, 8-22-72, Cl. 60-54.50r.
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Hagan, James J.; Chanod, Edward E.; Feldman, Robert S.; and Cords, Helmut, 3,706,660.
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Hoyt, Edwin R., 3,660,195.
- Core Memories, Inc.: See—
Murahashi, Seishin, 3,646,531.
- Corelli, Armand. Containers. 3,659,741, 5-2-72, Cl. 220-63.
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- Corey, Robert J., to Corey's Steplejacks, Inc. Pile cutting device. 3,667,515, 6-6-72, Cl. 143-34.000.
- Corey, Robert W. Monorail switching device. 3,702,590, 11-14-72, Cl. 104-105.000.
- Corey, Victor B., to Sundstrand Data Control, Inc. Measuring system for a fluid flow stream. 3,677,086, 7-18-72, Cl. 73-205.00r.
- Corey, Victor B., to Sundstrand Data Control, Inc. Fluidic sensor for fluid stream velocity. 3,678,746, 7-25-72, Cl. 73-194.00r.
- Corey, Victor B., to United Control Corporation. Fluidic direction and velocity detection apparatus. 3,686,937, 8-29-72, Cl. 73-189.000.
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Corey, Robert J., 3,667,515.
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DeGarab, Giorgio Olah; and Corfiati, Domenico, 3,634,224.
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Alper, Allen M.; Lewis, Ronald M.; and McNally, Robert N., 3,632,359.
- Clissem, Thomas A.; Duerr, Francis R.; and Olympia, Frederick D., 3,703,391.
- Corino, Edward R.; Broderick, Edward F.; and Canevari, Gerard P., to Esso Research and Engineering Company. Method of gelling tanker cargoes. 3,634,050, 1-11-72, Cl. 44-7.
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- Cork, Gordon H.; Tenniswood, David M.; and Kaptur, Robert E., to Gemco Electric Company. Machine control. 3,677,099, 7-18-72, Cl. 74-89.200.
- Corker, William R., to Honeywell Inc. Optical scanner having high frequency torsional oscillator. 3,642,344, 2-15-72, Cl. 350-6.
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Van Den Bulcke, Emile Oscar, 3,704,874.
- Corkill, John L., to Husky Oil Ltd. Submersible pump assembly. 3,677,665, 7-18-72, Cl. 417-410.000.
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- Corlett, Ewan Christian Brew, to Hydroconic Limited. Ducted propeller systems for marine vessels. 3,640,071, 2-8-72, Cl. 60-221.
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- Corley, Quentin D., Jr. Power lift and gate apparatus for truck. 3,700,123, 10-24-72, Cl. 214-77.00p.
- Corlite Corporation: See—
Fredericks, Carl K., 3,669,820.
- Fredericks, Carl K., 3,670,555.
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Balzer, Claude P.; Corman, Edward M.; Reiff, Almer A.; and Kirkwood, Wilber E., 3,659,390.
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Tiger, Emil; Corman, Erskin G.; and Reick, Kenneth R., 3,637,304.

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- Cormier, Gerald R. Ski board training device. 3,707,283, 12-26-72, Cl. 272-57.00b.
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- Corneau, George E., to Indev, Inc. Electrostatic grids. 3,641,976, 2-15-72, Cl. 118-624.
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Herk, Van Cornelis; and Cornelis, Johannes, 3,690,627.
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Cornelius, Richard T., 3,634,107.
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- Cornelius, Richard T., 3,667,724.
- Estrem, Malcolm J., 3,670,128.
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Von Brachel, Hanswilli; Cornelius, Dieter; and Stier, Eberhard, 3,637,653.
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Blaisdell, William H.; and Cornelius, Edward C., 3,675,016.
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Blaisdell, William H.; Cornelius, Edward C.; and Emerson, Howard J., 3,663,824.
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Clark, Richard J., Jr.; Veron, Harry; Gilmour, Alexander S., Jr.; and Lockwood, David L., 3,696,264.
- De Palma, Vito A., 3,672,963.
- Ludwig, Gary R., 3,681,973.
- Reinagel, Richard E., 3,680,743.
- Schneeberger, Richard F., 3,678,759.
- Weatherston, Roger C.; and Duryea, George R., 3,667,874.
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Petner, Eugene J.; Baumann, Erwin; and Cornell, John A., 3,632,677.
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Warren, Clinton C., 3,663,117.
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Bar-Nun, Akiva; Bauer, Simon H.; and Sagan, Carl, 3,652,434.
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Cornell, Richard R.; and Koehler, William F., 3,669,338.
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Jenkins, Anthony; and Cornell, Richard Charles, 3,699,342.
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Bowling, Edward L., 3,681,666.
- McHugh, James Francis, 3,651,387.
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Keith, Carl D.; Cornely, Kurt W.; and Lee, Nathan D., 3,635,841.
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Strapp, Joseph P.; and Cornford, Neri E., 3,706,962.
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Alper, Allen M.; Doman, Robert C.; Johnson, Neil E.; and McNally, Robert N., 3,666,507.
- Araujo, Roger J., 3,649,311.
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- Araujo, Roger J.; Sawchuk, Loris G.; and Seward, Thomas P., III, 3,703,388.
- Asher, John W.; and Herczog, Andrew, 3,699,620.
- Baldwin, William J., 3,639,854.
- Banks, Howard F., 3,697,961.
- Bartholomew, Roger F., 3,649,551.
- Bartholomew, Roger F., 3,661,545.
- Baum, George, 3,632,483.
- Baum, George, 3,652,348.
- Beall, George H.; and Martin, Francis W., 3,681,097.
- Beall, George H., 3,681,102.
- Beall, George H., 3,689,293.
- Belmonte, James A.; and Williams, Thomas, 3,680,207.
- Bermel, Thomas W., 3,641,809.
- Bockstie, Lawrence G., Jr., 3,655,607.
- Bockstie, Lawrence G., Jr., 3,666,551.
- Bognar, Lewis L., 3,681,043.
- Can, Yilmaz, 3,681,506.
- Cato, Russel L., Jr.; Leonard, Percy D., Jr.; and Smith, Robert D., 3,659,990.
- Connelly, John H., 3,650,780.
- Cowan, James H., Jr.; and Rostoker, David, 3,666,506.
- Dahlman, Frederick A.; and Mrs. Raymond J., 3,634,060.
- Dalton, Robert H.; and Riebling, Eugene F., 3,669,693.
- Dockerty, Stuart M., 3,682,609.
- Domicone, Joseph J., 3,649,443.
- Domicone, Joseph J., 3,666,559.
- Domicone, Joseph J.; and Ziver, Garo M., 3,681,122.
- Dorman, John R., 3,677,732.
- Douglas, George Albert; and Prokopec, James C., 3,655,027.
- Duke, David A., 3,700,471.
- Dumbaugh, William H., Jr.; Flannery, James E.; and Hares, George B., 3,661,601.
- Dumbaugh, William H., Jr.; Flannery, James E.; and Hares, George B., 3,681,098.
- Eckerlin, Herbert M., 3,633,619.
- Eckerlin, Herbert M.; and Ward, Morris V., 3,643,351.
- Eckerlin, Herbert M., 3,643,861.
- Eckerlin, Herbert M., 3,672,401.

- Eckerlin, Herbert M., 3,698,632.
 Eichelberger, William Ernest, 3,683,358.
 Evans, Marshall E.; and Platt, David M. H., 3,649,504.
 Flannery, James E., 3,667,973.
 Foster, Gordon F.; and Stong, Guy E., 3,634,111.
 Fyler, Norman F., 3,703,660.
 Garfinkel, Harmon M.; Sawchuk, Loris G.; and Stookey, Stanley D., 3,656,923.
 Giffen, James W.; Duke, David A.; Dumbaugh, William H., Jr.; Flannery, James E.; MacDowell, John F.; and Megles, John E., 3,673,049.
 Grego, Peter; Kozlowski, Theodore R.; and Schuyler, Peter M., 3,650,720.
 Gupton, James A., Jr., 3,681,222.
 Gupton, James A., Jr., 3,681,223.
 Herczog, Andrew; and Smith, Harold R., 3,665,599.
 Heyworth, Ernest R., 3,638,848.
 Hollis, David L., 3,683,389.
 Ihrig, Allen C.; and Wilson, Richmond W., 3,645,712.
 Killigrew, Daniel L., Jr., 3,688,936.
 Kunz, Hans J., 3,667,117.
 Kunz, Hans J., 3,703,670.
 Larsson, Robert W.; and Scott, Robert L., 3,649,826.
 Lawless, William N., 3,638,440.
 Lawless, William N., 3,649,891.
 Lawless, William N., 3,677,718.
 Lieberman, Morton L., 3,681,109.
 Lieberman, Morton L., 3,691,045.
 Lipp, George D.; Rahe, Villem; and Roberts, Lawrence B., 3,663,195.
 MacDowell, John F.; and Rittler, Hermann L., 3,635,739.
 Mancini, Ronald A., 3,639,768.
 Martin, Francis Willis, 3,663,244.
 Maurer, Robert D.; and Schultz, Peter C., 3,659,915.
 McClure, William J., 3,680,265.
 McQuaid, Gerald J., 3,636,227.
 Megles, John E., 3,649,440.
 Megles, John E., 3,653,865.
 Melezoglu, Cevdet, 3,703,411.
 Messing, Ralph A., 3,666,627.
 Meyers, Wheeler W., 3,648,865.
 Nelson, Carl J., 3,633,947.
 Reade, Richard F., 3,654,172.
 Riebling, Eugene F.; Blaszyk, Paul E.; and Smith, Dennis W., 3,650,779.
 Rothermel, Daphne L.; and Stookey, Stanley D., 3,653,864.
 Sackinger, William M.; and Simms, Robert A., 3,673,457.
 Santry, George J., 3,651,611.
 Santry, George J.; and Wecenske, Harold R., 3,672,107.
 Schultz, Peter C., 3,690,855.
 Shoup, Robert D., 3,678,144.
 Shriner, Donald R., 3,653,092.
 Smirmaul, Heinz J., 3,641,808.
 Smirmaul, Heinz J., 3,641,810.
 Steinberg, David B.; and Sutton, William T., 3,660,706.
 Stephenson, Donald A., 3,703,726.
 Stong, Guy E., 3,660,291.
 Sugawara, Ken F., 3,656,912.
 Szupillo, Raymond E., 3,647,566.
 Szupillo, Raymond E., 3,681,227.
 Weetall, Howard H., 3,652,761.
 Wiley, Robert F., 3,650,723.
 Wilson, Lois E., 3,663,193.
 Wisc, Warren M., 3,671,413.
 Corning, Robert C., Jr., to Sonoco Products Company. Method for forming tubular container body and tubular container body produced thereby. 3,695,971, 10-3-72, Cl. 156-275.000.
 Cornish, Alan H.; Helke, Robert C.; Le Donne, Alex N.; and Masters, Hugh E., to Kochler-Dayton, Inc. Microwave sewage system with distillation means. 3,700,565, 10-24-72, Cl. 203-1.000.
 Cornish, Blair E.: See—
 Auletta, Lucien V.; Cornish, Blair E.; Damm, Eugene P., Jr.; Faigenbaum, Mark A.; and Simon, Andrew M., 3,660,263.
 Cornish, Blair E.; Damm, Eugene P., Jr.; and Faigenbaum, Mark A., to International Business Machines Corporation. Method of producing insulated wire assemblies. 3,645,873, 2-29-72, Cl. 204-181.
 Cornish Containers, Inc.: See—
 Cornish, Edward; and Liebherr, Harold R., 3,678,703.
 Cornish, Edward; and Liebherr, Harold R., to Cornish Containers, Inc. Cold storage carton. 3,678,703, 7-25-72, Cl. 62-371.000.
 Cornish, Joseph J., III: See—
 Barland, Edwin S., Sr.; Cornish, Joseph J., III; and Henrich, Grady B., 3,693,913.
 Cornish, Rodney H.; Staulcup, James T.; and Chaney, Richard M., to Belden Corporation. Process of casting filament. 3,672,426, 6-27-72, Cl. 164-5.000.
 Cornman, Charles V.: See—
 Clark, Randall D.; Cornman, Charles V.; and McCullough, Ralph E., 3,649,096.
 Cornnats, Inc.: See—
 Rock, William A.; and Valleroy, Gustave J., 3,681,084.
 Cornsweet, Tom N., to Stanford Research Institute. System and method for scanning the depth of the optic fundus. 3,639,041, 2-1-72, Cl. 351-14.
 Cornwell, Charles E., to Bailey, Jennings, Jr., mesne. Method of mixing and placing concrete. 3,669,417, 6-13-72, Cl. 259-147.000.
 Cornwell, Charles E.; and Backus, James H., to Bailey, Jennings, Jr., mesne. Method of spraying concrete. 3,669,418, 6-13-72, Cl. 259-147.000.
 Cornwell, Charles E., to Bailey, Jennings, Jr., mesne. Method of producing tunnel or the like structure. 3,698,066, 10-17-72, Cl. 29-458.000.
 Corodex N.V.: See—
 Adegeest, Marco, 3,655,047.
 Corometrics Medical Systems, Inc.: See—
 Amarante, Joseph A.; and Montgomery, Robert E., 3,662,743.
 Compt, Antoine, to Marrel, Bennes. Container handling and transporting device. 3,638,817, 2-1-72, Cl. 214-517.
 Coronelli, Carolina: See—
 Thiemann, Josef; Murthy, Yelahanka K. S.; and Coronelli, Carolina, 3,676,490.
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 Corporacion de Fomento de la Produccion: See—
 Goldberger, William M., 3,647,398.
 Corporate Foods Limited: See—
 Kortschot, Cornelis; and Adams, Peter F., 3,698,914.
 Corporation of the City of Coventry: See—
 Hughes, Edward Victor Lawson, 3,669,517.
 Wilson, Gordon Shirley, 3,642,391.
 Corporation 'Realisations Ultrasoniques': See—
 Dory, Jacques, 3,651,687.
 Corpron, Gary P.: See—
 Berry, James M.; and Corpron, Gary P., 3,653,932.
 Corr, Coy D.: See—
 Cunningham, James A.; and Corr, Coy D., 3,667,005.
 Corr, Hubert: See—
 Poehler, Guenter; Wolf, Ludwig; Corr, Hubert; and Pilch, Kurt, 3,634,512.
 Corr, Hubert; Grosskinsky, Ott-Alfred; Loesch, Norbert; and Pilch, Kurt, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous production of diaminodicyclohexylalkanes. 3,632,648, 1-4-72, Cl. 260-563.
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 Corrado, Ronald F. Cover means for navigational instruments and radio equipment mounted on panel of aircraft. 3,699,787, 10-24-72, Cl. 70-58.000.
 Corraz, Alfred John: See—
 Berger, Leo; and Corraz, Alfred John, 3,646,045.
 Berger, Leo; and Corraz, Alfred John, 3,654,290.
 Correa, Jose A.: See—
 Dulmage, Howard T.; Correa, Jose A.; and Martinez, Adelaido J., 3,702,359.
 Correard, Daniel; Friess, Emmanuel; Salvi, Antoine; and Tregoures, Roger, to Commissariat a l'Energie Atomique. Differential frequency meter. 3,681,689, 8-1-72, Cl. 324-79.00r.
 Correia, Yves; and Strini, Jean-Claude, to Produits Chimiques Pechiney-Saint-Gobain. Process for obtaining tetrachloroethanes. 3,637,875, 1-25-72, Cl. 260-658.
 Correll, Edward M., to General Electric Company. Electrolytic capacitor with improved seal. 3,684,927, 8-15-72, Cl. 317-230.000.
 Correll, Edward Max, to General Electric Company. Metal-to-glass-to-metal hermetic seal. 3,697,823, 10-10-72, Cl. 317-230.000.
 Correll, Robert E.: See—
 Dunne, Maurice J.; Correll, Robert E.; and Picard, Joseph Albert, Jr., 3,654,616.
 Corrigan, Charles E.: See—
 Corsmeier, Robert J.; Howell, Thomas G.; Corrigan, Charles E.; and Koff, Bernard L., 3,700,348.
 Corrigan, Gordon D., to General Motors Corporation. Transmission control. 3,633,440, 1-11-72, Cl. 74-753.
 Corrigan, Gordon D.; Lee, Donald H.; Olsen, Howard E.; and Petry, Robert J., to General Motors Corporation. Drive mode selection system for transmissions. 3,695,121, 10-3-72, Cl. 74-753.000.
 Corrigan, Harry G. Cameras. 3,673,943, 7-4-72, Cl. 95-24.000.
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 Corrigan, Richard A.: See—
 Jacobs, John H.; and Corrigan, Richard A., 3,661,586.
 Corrigan, Sandra Lee: See—
 Corrigan, Matthew J., Jr., 3,679,823.
 Corrin, Myron L., to Phillips Petroleum Company. Pelleted carbon black containing surfactant. 3,691,071, 9-12-72, Cl. 252-8.55d.
 Corring, Jean; and Fourreau, Jean, to Esso Chimie. Process for making detergent inhibiting additives. 3,654,152, 4-4-72, Cl. 252-32.7.
 Corring, Jean, to Esso Research and Engineering Company. High alkalinity additives for lubricating oil compositions. 3,671,430, 6-20-72, Cl. 252-32.70e.
 Corris, Charles J., to Product Development Services, Inc. Circuit and method for detecting localized noise level changes and especially electromagnetic noise. 3,634,843, 1-11-72, Cl. 340-258.
 Corriston, Winfield F., to Johns-Manville Corporation. Insulated conduit fitting assembly. 3,645,564, 2-29-72, Cl. 285-47.
 Corriston, Winfield F.; and Heisler, Robert W., to Johns-Manville Corporation. Pipe coupling. 3,682,502, 8-8-72, Cl. 285-235.000.
 Corrodi, Hans Rudolf: See—
 Carlsson, Per Arvid Emil; Corrodi, Hans Rudolf; Florwall, Gosta Linnart; and Ross, Svante Bertil, 3,644,623.
 Corrodi, Hans Rudolf: See—
 Brandstrom, Arne Elov; Carlsson, Per Arvid Emil; Carlsson, Stig Ake Ingemar; Corrodi, Hans Rudolf; Ek, Lars; Lamm, Bo Robert; and Ablad, Bengt Arne, 3,674,840.
 Carlsson, Per Arvid Emil; Corrodi, Hans Rudolf; Hallhagen, Sven Goran; and Junggren, Ulf Krister, 3,655,737.
 Corrugated Finishing Products, Inc.: See—
 Dragoo, Sherman L., 3,677,111.
 Corrugated Packing and Sheet Metal Company Limited, The: See—
 Nicholson, Terence P., 3,643,965.
 Corry Jamestown Corporation: See—
 Hasbrouck, Gene B.; and Green, Alan L., 3,687,088.
 Hasbrouck, Gene B.; and Green, Alan L., 3,687,089.
 Corry, Stuart E. Temperature compensator for a pressure gauge. 3,670,576, 6-20-72, Cl. 73-393.000.
 Corsentino, Robert John, Jr.: See—
 Richardson, Charles Delton; Corsentino, Robert John, Jr.; and Gould, Oliver Maxwell, 3,658,307.
 Corsepius, Horst: See—
 Hardung-Hardung, Heimo; Corsepius, Horst; and Hofmann, Hansdieter, 3,706,647.
 Corsette, Douglas F., to Diamond International Corporation. Cartridge valve dispenser with pressure regulating valve. 3,669,316, 6-13-72, Cl. 222-143.000.
 Corsmeier, Robert J.; Howell, Thomas G.; Corrigan, Charles E.; and Koff, Bernard L., to General Electric Company. Turbomachinery blade structure. 3,700,348, 10-24-72, Cl. 416-90.000.
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 Corson, Carl Rutherford: See—
 Scott, Howard Mulder; and Corson, Carl Rutherford, 3,638,214.
 Corson, Claude E., to Coachmen Industries, Inc. Tailgate bumper mount. 3,695,666, 10-3-72, Cl. 293-73.000.
 Corson, Fred P.: See—
 Pews, R Garth; and Corson, Fred P., 3,641,004.
 Pews, Richard Garth; Corson, Fred P.; and Nyquist, Edwin B., 3,654,334.
 Corson, Frederick P., to Dow Chemical Company, The. Curable compositions comprising a polyepoxide, a polyisocyanato silane and a catalyst therefor. 3,679,630, 7-25-72, Cl. 260-47.0en.
 Corson, G. & W. H., Inc.: See—
 Corson, Bolton L.; and Royer, Budd R., 3,643,932.
 Minnick, Leonard John, 3,677,703.
 Minnick, William J., 3,645,719.
 Corson, G. & W. H., Inc.: See—
 Minnick, Leonard John, 3,634,115.
 Corson, Steve: See—
 Abplanalp, George W.; and Corson, Steve, 3,662,727.
 Abplanalp, George W.; and Corson, Steve, 3,675,034.
 Corte, Francisco Barceloni. Manual labeling device. 3,704,771, 12-5-72, Cl. 197-6.700.
 Corte, Herbert; and Meyer, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Anion exchanger with sponge structure. 3,637,535, 1-25-72, Cl. 260-21.
 Corte, Herbert; and Heller, Harold, to Farbenfabriken Bayer Aktiengesellschaft. Crosslinked acrylonitrile copolymers. 3,687,912, 8-29-72, Cl. 260-80.810.
 Corteel, Philippe, to British Petroleum Company Limited, The. Recovery of nitrogenous material from micro-organisms. 3,645,845, 2-29-72, Cl. 195-4.
 Cortes, Abel C., to Compagnie Francaise des Petroles. Drilling tool with elements having diamond-studded attack surface. 3,693,735, 9-26-72, Cl. 175-329.000.

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 Cortez, Jose L. Copying lathe. 3,635,265, 1-18-72, Cl. 142-38.
 Corti, Richard; and Michael, Jacob F. Method of making an undistorted coiled-coil tantalum carbide filament. 3,650,850, 3-21-72, Cl. 148-13.1.
 Corti, Costante: See—
 Sianesi, Dario; Pasetti, Adolfo; and Corti, Costante, 3,650,928.
 Sianesi, Dario; Pasetti, Adolfo; and Corti, Costante, 3,699,145.
 Sianesi, Dario; Pasetti, Adolfo; and Corti, Costante, 3,704,214.
 Cortona, Alessandro: See—
 Cerutti, Giovanni; and Cortona, Alessandro, 3,659,799.
 Cerutti, Giovanni; Costa, Armando; and Cortona, Alessandro, 3,682,414.
 Cortona, Alessandro; and Musso, Pietro, to Olivetti, Ing., C., & C., S.p.A. Line-spacing mechanism for a teleprinter or similar printing machine. 3,637,061, 1-25-72, Cl. 197-114.
 Cortona, Alessandro; and Calano, Giuseppe, to Olivetti, Ing., C., & C., S.p.A. Electromechanical transducer for selecting printing elements. 3,641,269, 2-8-72, Cl. 178-27.
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 Cortona, Alessandro; and Musso, Piero, to Olivetti, Ing., C., & C., S.p.A. Paper feed system for accounting machines. 3,653,483, 4-4-72, Cl. 197-129.
 Cortorillo, Salvatore; Shaffer, George A.; and Strauss, Herbert S., to Duro-Test Corporation. Liquid cooled electrode for high pressure compact arc. 3,636,401, 1-18-72, Cl. 313-352.
 Corum, Tillman L.: See—
 Clendenin, Norbert T.; and Corum, Tillman L., 3,691,804.
 Corvetti, Patrick T. Work and safety lamp. 3,676,664, 7-11-72, Cl. 240-6.40w.
 Corvi, Antonio. Footwear for surgeons. 3,648,390, 3-14-72, Cl. 36-3.
 Corvi, Joseph A.; and Lawrence, William G., to Corvonic Corporation. Device to detect motion. 3,673,590, 6-27-72, Cl. 340-258.00a.
 Corvonic Corporation: See—
 Corvi, Joseph A.; and Lawrence, William G., 3,673,590.
 Corwin, Harry L.: See—
 Blackburn, Marvin H.; and Corwin, Harry L., 3,683,481.
 Corwin, Harry L. Shaft feeding apparatus. 3,656,357, 4-18-72, Cl. 74-89.
 Corwin, Howard R.; Hermes, Walter L.; and Jones, Charles, to Curtiss-Wright Corporation. Torsionally resilient drive mechanism. 3,691,792, 9-19-72, Cl. 64-31.000.
 Corwin, Howard Russell, to Curtiss-Wright Corporation. Liquid metering device having an automatically variable discharge. 3,639,082, 2-1-72, Cl. 417-214.
 Corwin, Merton D.; and Dietrich, Walter E., to Baldwin, D. H., Company. Hammer butt with adjustable hammer shank. 3,651,733, 3-28-72, Cl. 84-243.
 Cory Corporation: See—
 Karlen, Harvey R., 3,699,944.
 Seil, Lewis W., 3,671,023.
 Cory, Terry S.; and Kennedy, William A., to Collins Radio Company. HF Broadband omnidirectional antenna. 3,683,390, 8-8-72, Cl. 343-792.500.
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 Coryell, Vincent: See—
 Levy, Selden; Grant, Stuart; Coryell, Vincent; and Diamond, Fred, 3,692,389.
 Corzine, Luke H., to Unicom Inc. Method of fabricating cellular foam core structure assembly. 3,658,612, 4-25-72, Cl. 156-93.
 Corzine, Robert G.; and Mosko, Joseph A., to United States of America, Navy. Direction finding antenna system. 3,683,385, 8-8-72, Cl. 343-113.00r.
 Cosan Chemical Corporation: See—
 Leebrock, John R., 3,661,887.
 Cosand, Neal H.: See—
 Bales, Walter D., III; and Cosand, Neal H., 3,665,250.
 Cosby, Henry L., to Clark Equipment Company. Lift truck with overhead guard and counterweight. 3,687,484, 8-29-72, Cl. 280-150.00c.
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- Cosden Oil & Chemical Company: *See—*
Bracke, William J. I., 3,686,141.
Brown, Rene P.; Allison, Birt, Jr.; and Meek, Paul D., 3,639,490.
Hahn, Granville J., 3,632,369.
Wiley, Donald Field, 3,669,714.
- Cosden Oil & Chemical Company, *mesne: See—*
Vanderlinden, Andre Jacques Emile; and Stubbe, Gilbert Jules Ghislain, 3,637,356.
- Cosentino, Louis Ciro, to Hoffmann-La Roche Inc. Metal-metal salt electrode and method for making the same. 3,662,745, 5-16-72, Cl. 128-2.
- Cosenza, Frank J., to Tridair Industries. Lock nut member. 3,702,628, 11-14-72, Cl. 151-21.00b.
- Cosgrove, Albert S.: *See—*
Forgacs, Joseph; and Cosgrove, Albert S., 3,683,068.
- Cosgrove, Charlotte E.: *See—*
Jacobson, Charles R.; D'Adamo, Anthony; and Cosgrove, Charlotte E., 3,663,564.
- Cosgrove, James F.: *See—*
McCain, William B.; and Cosgrove, James F., 3,664,655.
- Cosgrove, John Travers; and Drake, Ronald, to British Railways Board and Shaw, Joshua, & Sons Limited. Fork lift load handling devices. 3,684,114, 8-15-72, Cl. 214-654.000.
- Cosgrove, Richard E.; Krull, Irwin H.; and Mask, Charles A., to Beckman Instruments, Inc. Electrochemical electrode. 3,706,649, 12-19-72, Cl. 204-195.00m.
- Coshaw, Chester L. Depth gauging means for fishing reels. 3,666,197, 5-30-72, Cl. 242-84.1.
- Coshaw, Chester L. Washing machine. 3,683,647, 8-15-72, Cl. 68-23.200.
- Cosman, Cornelius M.; and Buker, Donald O., to American Metal Climax, Inc. Dephosphorization of ferrophosphorus. 3,699,213, 10-17-72, Cl. 423-322.000.
- Cosme, Peter Anthony: *See—*
Halsall, Vincent Michael; and Cosme, Peter Anthony, 3,673,302.
- Cosmetics & Pharmaceuticals, Inc.: *See—*
Madigan, Edward J., 3,697,642.
- Cosmicar Kogaku Kabushiki Kaisha: *See—*
Asazuma, Tatsuo, 3,633,486.
- Cosmopolitan Assurance Company Limited: *See—*
Davey, Peter Gordon, 3,691,821.
- Cosmopolitan Textile Company Limited: *See—*
Wildeman, Arno Edgar, 3,646,780.
- Cosp, Enrique A. Toy and delayed release propelling mechanism therefore. 3,670,453, 6-20-72, Cl. 46-202.000.
- Cospen, Jean; and Baumann, Bernard, to Cebal GP. Easy-opening stopper for metal cans and the like. 3,682,349, 8-8-72, Cl. 220-42.00b.
- Coss, Richard E.; and Harper, Willard J., to Carborundum Company, The. Continuous treating apparatus. 3,690,068, 9-12-72, Cl. 51-13.000.
- Cossaart, Darrel D.: *See—*
Tanaka, Edward Y.; Cossaart, Darrel D.; and Edwards, Norman B., 3,673,680.
- Cossar, Bernard C.; and Reynolds, Delbert D., to Eastman Kodak Company. Photographic bleaching and antifogging agents. 3,671,259, 6-20-72, Cl. 96-109.000.
- Cossart, Rene: *See—*
Brochard, Claude; and Cossart, Rene, 3,677,114.
- Cosserat, David C.: *See—*
Boom, Roger J.; Cotton, John M.; Goodier, Martin J.; and Cosserat, David C., 3,657,736.
- Cossor, A. C., Limited: *See—*
Gay, Frank Munro, 3,671,327.
Mansfield, Michael Patrick; and Prangnell, Howard John, 3,691,467.
Owen, Philip Collinson, 3,643,256.
- Cossuta, Giuseppe: *See—*
Paletto, Raimondo; and Cossuta, Giuseppe, 3,689,683.
- Costa, Allan A. Double dispensing applicator with twin reservoirs. 3,690,777, 9-12-72, Cl. 401-17.000.
- Costa, Armando: *See—*
Cerutti, Giovanni; Costa, Armando; and Cortona, Alessandro, 3,682,414.
- Costa, Armando; and Cerutti, Giovanni, to Olivetti, Ing. C., & C., S.p.A. High-speed tape perforator. 3,707,262, 12-26-72, Cl. 234-119.00.
- Costa, Charles; Loupere, Andre; Monsel, Philippe; and Schmitt, Bertrand, to Commissariat a l'Energie Atomique. Automatic alignment bearings for guiding in translational or rotational motion. 3,679,272, 7-25-72, Cl. 308-9.000.
- Costa, Eugen; Covaci, Ioan; and Surca, Gheorghe, to Clinica si Policlinica de Stomatologie Ortopedica. Method of making dental bridges, dental crowns, and dental corono-radicular retainers. 3,636,632, 1-25-72, Cl. 32-5.
- Costa, Eugen; Ene, Lucian; Dumitrescu, Stelica; and Covaci, Ioan, to Policlinica de Stomatologie Protetica. Method of fabricating dental crowns and bridges from gold. 3,695,333, 10-3-72, Cl. 164-35.000.
- Costa, Frank. Golf ball tee. 3,690,676, 9-12-72, Cl. 273-202.000.
- Costa, Philip Joseph, to Caterpillar Tractor Company. Control system for inertia welding machines. 3,680,760, 8-1-72, Cl. 228-2.000.
- Costa, Robert B., to Rain Bird Sprinkler Mfg. Corporation. Self-cleaning spray deflector. 3,658,252, 4-25-72, Cl. 239-230.
- Costachescu, Carol: *See—*
Grigorovici, Radu G.; Devenyi, Andrei Gavrilă; Florea, Valer; Korony, Gheorghe; Belu, Aretia; and Costachescu, Carol, 3,705,993.
- Costain Concrete Company, Limited: *See—*
Jennings, Brian Michael; and Ager, Johnwalter Albert, 3,700,167.
- Costain, William B.: *See—*
Amelotte, Joseph A.; and Costain, William B., 3,680,836.
- Costantini, Michel: *See—*
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- Costanza, Carl C.; Weber, Walter W.; Betlejewski, Frank W.; and Frystak, Richard, to Bell & Howell Company. Slide transport device. 3,659,934, 5-2-72, Cl. 353-103.
- Costanza, John R.; and Eisen, Bruce M., to Celanese Corporation. Selectively dispersible sanitary structures. 3,707,430, 12-26-72, Cl. 161-123.000.
- Costanzo, Nicholas J., Jr.: *See—*
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- Coste, Jean-Noel: *See—*
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- Costello, Bernard J., to Angus Engineering Company, Inc. Conveyor for fusing and heating systems. 3,655,173, 4-11-72, Cl. 263-8.
- Costello, Bernard J., to Argus Engineering Company, Inc. Heating apparatus having simplified focussing means. 3,661,369, 5-9-72, Cl. 263-2.
- Costello, Bernard J., to Argus Engineering Company, Inc. Heating and fusing device. 3,674,974, 7-4-72, Cl. 219-85.000.
- Costello, Christopher Hollet, to Colgate-Palmolive Company. Eye-spraying device having mirror. 3,640,274, 2-8-72, Cl. 128-173.
- Costello, Christopher Hollet, to Colgate-Palmolive Company. Safety heater for pressure dispensed product. 3,644,707, 2-22-72, Cl. 219-302.
- Costello, Edward, Jr.; Cooper, Joseph S.; and Dunlap, Harold E., to Loddig Engineering Corporation. Extended-Life doctoring apparatus. 3,688,336, 9-5-72, Cl. 15-256.510.
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- Costello, Paul A.: *See—*
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- Costello, Raymond M.; and Beckman, Eugene B., to Foster Wheeler Corporation. Steam temperature control spray system. 3,640,250, 2-8-72, Cl. 122-406.
- Costello, Robert C.: *See—*
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- Costello, Thomas V.: *See—*
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- Coster, Maurice Simon, to Borden, Inc. Interlockable confection bars. 3,663,717, 5-16-72, Cl. 99-137.
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- Costianes, Peter J., to United States of America, Air Force. Apparatus for taking photographs at times of minimum image motion. 3,690,234, 9-12-72, Cl. 95-11.000.
- Coston, Ostis D. Meter and service connector for electric service reconversion systems. 3,643,209, 2-15-72, Cl. 339-155.
- Coston, Ronald Francis: *See—*
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- Cosyns, Jean; and Duhaut, Pierre, to Institut Francais du Petrole, des Carburants et Lubrifiants. Process for regenerating nickel and cobalt hydrogenation catalyst. 3,661,798, 5-9-72, Cl. 252-416.
- Cotabish, Harry N.; Wise, Layton A.; and Buban, Elmer E., to Mine Safety Appliances Company. Emergency breathing apparatus. 3,655,346, 4-11-72, Cl. 23-281.
- Cotabish, Harry N., to Mine Safety Appliances Company. Fresh air respirator. 3,683,907, 8-15-72, Cl. 128-145.000.
- Cote, Alfred A., to Philco-Ford Corporation. Tuner drive apparatus. 3,668,924, 6-13-72, Cl. 74-10.700.
- Cote, Delmer J. Dry wall tape folder that folds tape for corners when taping sheet rock. 3,681,175, 8-1-72, Cl. 156-576.000.

- Cote, Martin J., to Singer Company, The, *mesne*. Transducer head actuator for magnetic disc memory. 3,651,501, 3-21-72, Cl. 340-174.1.
- Cote, Paul T.: *See—*
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- Cote, Raymond A., to Riegel Paper Corporation. Reclosable composite package. 3,669,345, 6-13-72, Cl. 229-51.0ts.
- Cotelle, Marie-Joséphine. Decorative building element. 3,640,796, 2-8-72, Cl. 161-43.
- Cotey, John. Viscous governor device. 3,688,626, 9-5-72, Cl. 84-95.000.
- Cother, Robert H., to Becton, Dickinson Electronics Company. Machine tool monitoring system. 3,689,839, 9-5-72, Cl. 324-181.000.
- Cotthran, Samuel Bynum; and Henry, Colin Alexander, to Du Pont de Nemours, E. I., and Company, *mesne*. Packaging rolls with improved end-suspension support panels. 3,685,644, 8-22-72, Cl. 206-59.00f.
- Coto-Coil Co., Inc.: *See—*
Campbell, Bruce D., 3,701,960.
- Cotsalas, Stephen N.: *See—*
Carrano, Andrew J., Jr.; Cotsalas, Stephen N.; and Jacobson, John E., 3,679,208.
- Cotta, Ernesto: *See—*
Cassinelli, Giuseppe; Cotta, Ernesto; Grein, Arpad; and Maz-zoleni, Rosanna, 3,644,619.
Cassinelli, Giuseppe; Cotta, Ernesto; Pennella, Paolo; and Faustini, Remo, 3,696,194.
- Cotta Ramusino, Francesco: *See—*
Galbarini, Maso; and Cotta Ramusino, Francesco, 3,651,706.
- Cottam, Alfred E., to Westinghouse Electric Corporation. Controlled vent for isotope fuel capsule. 3,633,033, 1-4-72, Cl. 250-106.
- Cottam, Alfred E.; Chi, John W. H.; Kim, Chang-Kyo; and Flaherty, Robert, to United States of America, Atomic Energy Commission, *mesne*. Radioisotopic power source. 3,638,023, 1-25-72, Cl. 250-106.
- Cottatellucci, Ezio, to Societa Italiana Telecomunicazioni Siemens S.p.A. Electronic switching arrangement. 3,657,562, 4-18-72, Cl. 307-243.
- Cottell, Eric C. Hand-held air compressor and liquid spray device. 3,696,973, 10-10-72, Cl. 222-193.000.
- Cotter, Anthony P. Product depletion indicator for refrigerators. 3,689,909, 9-5-72, Cl. 340-272.000.
- Cotter, John J., to E&M Laboratories. Waveguide ferrite circulator having conductive side of dielectric disc in contact with ferrite. 3,662,291, 5-9-72, Cl. 333-1.1.
- Cotter, John J.; and Abronson, Charles J., to E & M Laboratories. High speed circulator switch. 3,684,983, 8-15-72, Cl. 333-1.100.
- Cotter, Robert J.: *See—*
Sulzberg, Theodore; and Cotter, Robert J., 3,637,798.
- Cotter, William L.: *See—*
Reiss, Martin H.; and Cotter, William L., 3,641,547.
- Cotter, William L., to Itek Corporation. Split electrode gas cell. 3,636,405, 1-18-72, Cl. 315-169.
- Cotterill, Joseph Hobson. Hydrodynamic torque converters. 3,688,493, 9-5-72, Cl. 60-12.000.
- Cotterman, James W.: *See—*
Santilli, Vincent J.; Vine, James; and Cotterman, James W., 3,688,122.
- Cottis, Steve G.: *See—*
Economy, James; Cottis, Steve G.; and Nowak, Bernard E., 3,656,994.
Nowak, Bernard E.; Cottis, Steve G.; Economy, James; and Steiner, Paul J., 3,644,593.
Nowak, Bernard E.; Economy, James; and Cottis, Steve G., 3,662,052.
Nowak, Bernard E.; Cottis, Steve G.; and Economy, James, 3,668,300.
- Cottis, Steve G.; Economy, James; and Nowak, Bernard E. p-Oxybenzoyl copolymers. 3,637,595, 1-25-72, Cl. 260-47.
- Cottis, Steve G.; Nowak, Bernard E.; and Economy, James, to Carborundum Company, The. Polyester coated wire. 3,669,738, 6-13-72, Cl. 117-232.000.
- Cottle, John E.: *See—*
Hinton, Robert A.; and Cottle, John E., 3,679,764.
- Cottle, John E., to Phillips Petroleum Company. Separating p-dichlorobenzene from N-methyl pyrrolidone by steam distillation. 3,658,659, 4-25-72, Cl. 203-76.
- Cottle, John E. Hydrogenation of oxidative dehydrogenation by-product. 3,692,859, 9-19-72, Cl. 260-680.00e.
- Cotton, Charles C.: *See—*
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- Cotton, Curran D., to Maytag Company, The. Dryer control system. 3,647,196, 3-7-72, Cl. 263-33.
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Challenger, Frederick Raymond; Swanwick, Barry Frederick; Cotton, Cyril Ivan; and Gaunt, Dennis, 3,656,322.
- Cotton, Grady L., to Deering Milliken Research Corporation. Soil release characteristics of textile materials. 3,649,165, 3-14-72, Cl. 8-115.5.
- Cotton, Incorporated: *See—*
Gamarra, Jose P.; Swidler, Ronald; and Wilson, Katherine W., 3,653,805.
Getchell, Nelson F.; Berch, Julian; and Hollies, Norman R.S., 3,642,428.
Jones, Joseph Kennedy; and Smith, Milton Louis, 3,703,966.
Swidler, Ronald; and Wilson, Katherine W., 3,706,526.
- Cotton, Incorporated, *mesne: See—*
Gagliardi, Domenick Donald, 3,656,885.
Vehe, Dennis A.; Porterfield, Jay G.; and Roth, Lawrence O., 3,679,132.
- Cotton, James E., 30% to Dimit, Richard J. Method of making a flume. 3,632,730, 1-4-72, Cl. 264-295.
- Cotton, John J.: *See—*
O'Neal, John E., 3,639,982.
- Cotton, John M.: *See—*
Boom, Roger J.; Cotton, John M.; Goodier, Martin J.; and Cosserat, David C., 3,657,736.
- Cotton, John Michael; and Lloyd, Peter Anthony, to Plessey BTR Limited. Data transmission systems. 3,680,053, 7-25-72, Cl. 340-172.500.
- Cotton, John W.: *See—*
Taylor, Glenn L.; Cotton, John W.; and Winkler, De Loss E., 3,699,184.
- Cotton, Joseph Bernard; Bennett, William Raymond; Bell, John Alan; and Hayfield, Peter Charles Steele, to Imperial Metal Industries (Kynoch) Limited. Method of making an electrode. 3,645,862, 2-29-72, Cl. 204-56.
- Cotton, Richard A.: *See—*
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- Cotton, Robert B., to All American Industries, Inc. Energy absorbing rotary piston pump. 3,655,303, 4-11-72, Cl. 418-61.
- Cotton, Ronald K.; and Rae, Barney O., to Cutler-Hammer, Inc. Storage and retrieval system with a motor current sensing to detect obstructions. 3,677,420, 7-18-72, Cl. 214-16.40a.
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- Cotton Silk and Man-Made Fibres Research Association, The: *See—*
Benson, William; and Short, Gordon, 3,636,693.
- Cotton, William Limited: *See—*
Marriott, Eric Walter, 3,668,903.
- Cottrell, Samuel H.; and Montgomery, Sam R., to White Farm Equipment Company. Deadman seat actuated brake and hand-brake construction. 3,664,453, 5-23-72, Cl. 180-101.
- Cottrell, Samuel H., to White Farm Equipment Company. Deadman seat actuated brake. 3,664,454, 5-23-72, Cl. 180-101.000.
- Cottrill, Jon R.: *See—*
Hall, Thomas H., Jr.; Cottrill, Jon R.; and Dubble, Roger D., 3,658,304.
- Cotugno, Dolores. Method of forming a ruffle or the like. 3,674,187, 7-4-72, Cl. 223-46.000.
- Coty, Vernon F.; Heilweil, Israel J.; and Leavitt, Richard I., to Mobil Oil Corporation. Process for growing cells of a microorganism on a carbon-containing liquid substrate. 3,672,953, 6-27-72, Cl. 195-28.000.
- Coubrough, Lawrence E.: *See—*
Moss, James R.; Roe, Richard F.; Coubrough, Lawrence E.; and Buck, Robert W., 3,697,836.
- Couch, Dean Henry: *See—*
Burdette, George William; and Couch, Dean Henry, 3,650,857.
- Couch, Francis O. Logic circuit delay system comprising monostable means for providing different time delays for positive and negative transitions. 3,661,026, 5-9-72, Cl. 307-254.
- Couch, Francis O., to GTE Automatic Electric Laboratories Incorporated. Logic circuit delay system comprising monostable means for providing different time delays for positive and negative transitions. 3,668,423, 6-6-72, Cl. 307-208.
- Couch, Richard W., Jr.; and Dean, Robert C., Jr., to Chemetron Corporation, *mesne*. Plasma arc torch having liquid laminar flow jet for arc constriction. 3,641,308, 2-8-72, Cl. 219-121.
- Couch, Robert O.: *See—*
Zeile, George D., Jr.; and Couch, Robert O., 3,642,308.
- Coucoulas, Alexander. Device for bonding with a compliant medium. 3,650,454, 3-21-72, Cl. 228-1.
- Coucoulas, Alexander, to Western Electric Company, Incorporated. Assembly including carrier for devices. 3,655,177, 4-11-72, Cl. 269-1.
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- Coughlan, Edward H., to Polaroid Corporation. Drive system for a reflex member. 3,673,935, 7-4-72, Cl. 95-11.00r.
- Coughlan, Edward R., to Polaroid Corporation. Photographic apparatus with dynamically controlled reflex action. 3,685,416, 8-22-72, Cl. 95-42.000.

- Coughlin, Charles P.: *See*—
Cochran, Thomas J.; Coughlin, Charles P.; Ficker, Walter W.; Lent, Charles V.; and Sullivan, Joseph M., 3,702,042.
- Coughlin, Edwin J.: *See*—
Chaney, Larry R.; and Coughlin, Edwin J., 3,659,247.
- Coughlin, Leonard J.: *See*—
Brouillard, Robert E.; Coughlin, Leonard J.; and Winfrey, Vernon L., 3,672,922.
Hjermstad, Erling T.; and Coughlin, Leonard J., 3,652,541.
Hjermstad, Erling T.; and Coughlin, Leonard J., 3,652,542.
- Coughlin, Ronald D.: *See*—
Harley, Wayne E.; and Coughlin, Ronald D., 3,686,597.
- Coughlin, Stephen A.: *See*—
Weaver, Galen K.; Shaffer, Howard A.; and Coughlin, Stephen A., 3,676,575.
- Coughran, Samuel J., Jr., to Rome Industries, Incorporated. Rotary cutter mechanism. 3,653,193, 4-4-72, Cl. 56-10.7.
- Coulard, Roger, to Societe de Conditionnement en Aluminium SCAL GP. Flexible tubes. 3,661,301, 5-9-72, Cl. 222-92.
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- Coulombe, Raymond Francis, to Dart Industries Inc. Dip coating machine. 3,673,984, 7-4-72, Cl. 118-416.000.
- Coulon, Edward I.; Miller, Benny Jay; and Mohr, Dale C., to Vogel Tool and Die Corporation. Apparatus for piercing openings in tubing. 3,698,274, 10-17-72, Cl. 83-188.000.
- Coulson, Dale Robert, to Du Pont de Nemours, E. I., and Company. 2-Methyl-3-methylene-1,5,7-octatriene, its oligomer, and its preparation from allene and butadiene with palladium(O) catalysts. 3,691,250, 9-12-72, Cl. 260-677.00r.
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Coyle, John Cadden; and Coulson, Derrick, 3,656,541.
- Coult, John H. Friction-driven rotary cleaning apparatus with coaxial transmission. 3,691,581, 9-19-72, Cl. 15-49.00c.
- Coult, Roger L.: *See*—
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- Coulter, Earl E.; Hemker, Fritz L.; and Kazmierski, Elias A. Pulverized fuel delivery system for a blast furnace. 3,689,045, 9-5-72, Cl. 266-28.000.
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Claps, William A., 3,688,191.
Coulter, Wallace H.; and Hogg, Walter R., 3,686,486.
Figueroa, David R., 3,679,884.
Hogg, Walter R., 3,668,531.
Hogg, Walter R.; and Figueroa, David R., 3,670,150.
Hogg, Walter R., 3,689,833.
Hogg, Walter R., 3,700,867.
Hogg, Walter R., 3,701,029.
Klein, Robert I., 3,678,382.
Klein, Robert I.; and Hogg, Walter R., 3,706,030.
Klein, Robert T.; and Kreiselman, Robert L., 3,696,399.
Pontigny, Jacques A., 3,649,218.
Pontigny, Jacques A., 3,700,992.
- Coulter Electronics, Inc., *mesne*: *See*—
Capellaro, David F., 3,669,542.
- Coulter, Stanley M.: *See*—
Mevisen, Ernst A.; and Coulter, Stanley M., 3,653,648.
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- Coulter, Wallace H.; and Hogg, Walter R., to Coulter Electronics, Inc. Apparatus for obtaining statistical hematological indices and analyzing same and method. 3,686,486, 8-22-72, Cl. 235-151.300.
- Coulthard, Douglas, to Polymer Corporation Limited. Diene/nitrile elastomeric blends. 3,644,590, 2-22-72, Cl. 260-894.
- Coulthart, Hugh K.: *See*—
Buckler, Ernest J.; Coulthart, Hugh K.; Mc Cracken, Nathan J.; and Marcinkowski, Mieczyslaw, 3,637,635.
- Council, Malcolm N., to Gardner-Denver Company. Indexing means for drill rod storage rack. 3,664,439, 5-23-72, Cl. 175-85.
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Kusterer, James E., Jr.; and Hind, John D., 3,703,353.
- Counsell, Lulu B. Patient positioning apparatus for use in taking medical X-rays. 3,700,894, 10-24-72, Cl. 250-50.000.
- Countess Mara, Inc.: *See*—
Weidlin von Boden, Alberto; and Enzian, Ernest, 3,664,288.
- Counton Corporation: *See*—
Carmona, Delio; Diamond, Harvey; and Maliga, Joachim, 3,654,502.
- Countryman, Albert J., to Ty-Lok Assembly Systems, Inc. Strapping apparatus. 3,633,633, 1-11-72, Cl. 140-93.2.
- Countryman, James H. Mixing valve. 3,656,512, 4-18-72, Cl. 137-625.4.
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- Coupland, Ralph: *See*—
Page, Wilbur M.; and Coupland, Ralph, 3,666,324.
- Coupling Corporation of America: *See*—
Anderson, James H.; and Anderson, James H., Jr., 3,646,777.
Anderson, James H., 3,649,058.
- Couquet, Pierre Jean. Pile or plastic tiles for flooring and like applications. 3,694,983, 10-3-72, Cl. 52-384.000.
- Courbon, Paul, to Charbonnages de France. Humid de-dusting device for gas-conveyor conduits. 3,703,800, 11-28-72, Cl. 55-238.000.
- Couret, Robert F.: *See*—
Lapeyre, James M.; and Couret, Robert F., 3,704,484.
Lapeyre, James M.; and Couret, Robert F., 3,706,113.
- Courneya, Calice G., to Minnesota Mining and Manufacturing Company. Heat sensitive retro-reflecting materials. 3,649,352, 3-14-72, Cl. 117-201.
- Coursen, David L.: *See*—
Andrews, Adlay B.; Coursen, David L.; and Loving, Frank A., Jr., 3,656,585.
Andrews, Adlay B.; and Coursen, David L., 3,687,074.
Bowyer, Kern M.; and Coursen, David L., 3,660,808.
- Courson, Richard B., to Almo Manifold and Tool Company. Hydraulic manifold system. 3,667,603, 6-6-72, Cl. 210-130.
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Krueger, Harvey R.; and Armentrout, Dean R., 3,635,080.
- Court, Charles T. Vertically sliding door mounted in horizontally pivoted frame. 3,693,693, 9-26-72, Cl. 160-195.000.
- Court, Donald B.: *See*—
McCreary, William J.; and Court, Donald B., 3,636,923.
- Court, Kenneth, to Sperry Rand Corporation. Power transmission. 3,631,763, 1-4-72, Cl. 91-506.
- Court, Kenneth, to Sperry Rand Corporation. Power transmission. 3,650,107, 3-21-72, Cl. 60-53.
- Court, Otto: *See*—
Morgenstern, Karl; Schnell, Hermann; Bottenbruch, Ludwig; Court, Otto; Schwarz, Hans-Helmut; and Vernaleken, Hugo, 3,666,719.
Vernaleken, Hugo; Court, Otto; and Weirauch, Kurt, 3,674,740.
- Courtauds Limited: *See*—
Betts, Max William; and Robinson, Frank, 3,695,063.
- Courtauds Engineering Limited: *See*—
Nienstaedt, Robert; and Bunting, James William, 3,692,986.
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Betts, Max W.; and Robinson, Frank, 3,664,156.
Betts, Max William; and Robinson, Frank, 3,635,051.
Betts, Max William; and Robinson, Frank, 3,636,733.
Betts, Max William; and Robinson, Frank, 3,640,096.
Betts, Max William; and Robinson, Frank, 3,640,097.
Betts, Max William; and Robinson, Frank, 3,668,896.
Betts, Max William; and Robinson, Frank, 3,668,898.
Betts, Max William; and Robinson, Frank, 3,668,901.
Betts, Max William; and Robinson, Frank, 3,680,333.
Crampsey, Edward, 3,640,942.
Gardner, Brian C., 3,645,936.
Groombridge, Denis William, 3,690,975.
Higgins, Francis J., 3,641,249.
Jeffcoat, Keith, 3,688,525.
Jeffcoat, Keith, 3,691,794.
Morgan, Peter E.; and Roberts, Ronald William, 3,660,197.
Robinson, Frank; and Chell, Frederick Nunnerley, 3,685,316.
Sutton, John Anthony, 3,698,855.
Tindall, John Raymond, 3,659,439.
Torrance, Brian J. D., 3,681,004.
Wilding, Malcolm D., 3,681,120.
Wilson, Donald L.; and Brealey, Graham J., 3,632,699.
- Courtenay, Jerzy Leon: *See*—
Glaze, Stanley George; Smith, Charles Philip; and Courtenay, Jerzy Leon, 3,692,260.
Neal, Francis John; Courtenay, Jerzy Leon; and Simmons, John Richard, 3,640,092.
- Courtenay, Jerzy Leon; and Neal, Francis John, to Hobson, H. M., Limited. Plural drive with differential brakes. 3,631,944, 1-4-72, Cl. 192-3.
- Courtens, Eric L., to International Business Machines Corporation. Optical pulse doubler utilizing self-induced transparency. 3,650,600, 3-21-72, Cl. 350-151.
- Courtes, Georges: *See*—
Bonnet, Maurice; and Courtes, Georges, 3,664,741.
- Courtesy Products Corporation: *See*—
Gust, Raymond E., 3,666,142.
- Courtin, Jacques. Rotary douche for treating breasts. 3,667,455, 6-6-72, Cl. 128-66.000.
- Courtland Limited: *See*—
Betts, Max William; and Robinson, Frank, 3,702,068.
- Courtney, John J. Ladder attachment. 3,653,462, 4-4-72, Cl. 182-108.

- Courtney, Welby G.: *See*—
Greiner, Leonard; and Courtney, Welby G., 3,705,495.
- Courtney-Pratt, Jeffrey Stuart, to Bell Telephone Laboratories, Incorporated. Image retaining panel impervious to ambient light. 3,665,237, 5-23-72, Cl. 313-108.
- Courtois, Donald A., to Bendix Corporation, The. Portable X-ray generating machine. 3,643,094, 2-15-72, Cl. 250-87.
- Coury, Arthur J., to General Mills Chemicals, Inc. Organic isocyanate preparation. 3,707,496, 12-26-72, Cl. 260-453.00p.
- Couser, Chester F. Implement hinge. 3,680,172, 8-1-72, Cl. 16-163.000.
- Cousin, Barry D., to Plas/Steel Products, Inc. Method for assembling a line guide to a fishing rod. 3,651,561, 3-28-72, Cl. 29-450.
- Cousino, James L.: *See*—
Kling, Edward E.; Cousino, James L.; and Frens, James A., 3,663,412.
- Cousino, Ralph E., to Orrtronics, Inc. Tape cartridge. 3,685,754, 8-22-72, Cl. 242-55.19a.
- Cousino, Walter Frank, to Thermad, Inc. Impact actuated mowing machine. 3,657,868, 4-25-72, Cl. 56-26.500.
- Cousins, Morison S.; Klawson, Rennold L.; and Watson, Roy, to General Foods Corporation. Cup with pour spout and circular finish. 3,700,146, 10-24-72, Cl. 222-465.000.
- Cousins, Nicholas T., to Avco Corporation. Borescope fixture. 3,690,775, 9-12-72, Cl. 356-241.000.
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Worstell, Wayne C.; Cousins, Richard C.; and Cooley, Eugene A., 3,674,119.
- Coussell, Ivan John; and Pattison, Roy, to Pye Limited. Receiver alarm system. 3,689,843, 9-5-72, Cl. 325-302.000.
- Cousserans, Gilbert: *See*—
Roche, Andre; Amanrich, Robert; and Cousserans, Gilbert, 3,667,904.
- Coutellier, Chislain: *See*—
Esteve-Subirana, Antonio; and Coutellier, Chislain, 3,681,503.
- Coutenay, Jerzy Leon; and Simmons, John Richard, to Hobson, H. M., Limited. Valve seizure protection devices. 3,635,242, 1-18-72, Cl. 137-554.
- Couttet, James, to Societe Anonyme de Recherches de Mechanique. Grip for ski-sticks and the like. 3,662,433, 5-16-72, Cl. 24-68.0as.
- Couture, John W., to Automation Industries, Inc. Magnetic pulser circuit for material tester. 3,673,859, 7-4-72, Cl. 73-67.80r.
- Couture, Roger A.; and Lajza, John J., Jr., to International Business Machines Corporation. Etching completion indication. 3,642,549, 2-15-72, Cl. 156-24.
- Couvillon, Lucien A., Jr.: *See*—
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- Covaci, Ioan: *See*—
Costa, Eugen; Covaci, Ioan; and Surca, Gheorghe, 3,636,632.
Costa, Eugen; Ene, Lucian; Dumitrescu, Stelica; and Covaci, Ioan, 3,695,333.
- Coveney, Donald B.; and Ouellette, Roland J., to Canadian International Paper Company. Apparatus for detecting surface variations. 3,650,036, 3-21-72, Cl. 33-174.
- Coventry Gauge & Tool Company Limited: *See*—
Davidson, John Bruce, 3,650,362.
Palmer, Raymond L., 3,631,633.
- Cover, Lloyd W., Jr.; and Webb, Charles C., to Du Pont de Nemours, E. I., and Company. Apparatus for compressing and cooling fiber batts. 3,671,365, 6-20-72, Cl. 156-580.000.
- Cover, Paul F.; Rife, John W.; Kemper, Clyde F.; and Reed, Donald E. Corn cutting machine and method. 3,685,519, 8-22-72, Cl. 130-9.00a.
- Cover, Peter H.; and Gilbert, Jack J., to Arcata Microfilm Corporation, *mesne*. Apparatus for making microfiche. 3,634,176, 1-11-72, Cl. 156-580.
- Covert, Frederick M. Frame mounted camper hold-down. 3,706,469, 12-19-72, Cl. 296-23.0mc.
- Covey, Gordon W. Mill. 3,680,797, 8-1-72, Cl. 241-73.000.
- Covey, Gordon W. Cutter assembly. 3,688,624, 9-5-72, Cl. 83-596.000.
- Covey, Rupert A.; von Schmeling, Bogislav; and Crittendon, Charles E., to Uniroyal, Inc. Method for killing meristematic buds. 3,690,861, 9-12-72, Cl. 71-76.000.
- Covey, Rupert A.; Von Schmeling, Bogislav; and Crittendon, Charles E., to Uniroyal, Inc. Alkyl keto-alkyl sulfites and their uses. 3,707,363, 12-26-72, Cl. 71-78.000.
- Coviello, Joseph: *See*—
Procter, James F.; Mebus, Henry R.; De Young, Robert J.; and Coviello, Joseph, 3,701,176.
- Coville, William W., to Pitney-Bowes, Inc. Oscillatable ink pad and print member. 3,706,274, 12-19-72, Cl. 101-333.000.
- Covington, Cecil E.: *See*—
Carter, George D.; Covington, Cecil E.; and Schellhase, Ernst C., 3,683,988.
- Covington, Loren C., to Titanium Metals Corporation. Method of electrolytic descaling and pickling. 3,632,490, 1-4-72, Cl. 204-141.
- Covini, Lorenzo, to Cober Fabbrica Articoli Sportivi. Safety ski binding. 3,695,623, 10-3-72, Cl. 280-11.350.
- Covitz, Frank H.; and Carrubba, Robert V., to Union Carbide Corporation. Electrochemical conversion of phenol to hydroquinone. 3,663,381, 5-16-72, Cl. 204-78.
- Cowan, Arnold A., to Bobrick Aero Missile Products. Composite construction for nipple used in ground starting for jet engines. 3,701,552, 10-31-72, Cl. 285-158.000.
- Cowan, Ben. Screen impeller. 3,637,077, 1-25-72, Cl. 209-273.
- Cowan, Ben. Pulp screening machine. 3,664,501, 5-23-72, Cl. 209-273.000.
- Cowan, Everett C.: *See*—
Sheehan, Ronald T.; Cowan, Everett C.; and Hyman, Myles, 3,665,688.
- Cowan, Frank O. Cattle spraying device. 3,699,928, 10-24-72, Cl. 119-159.000.
- Cowan, George R.: *See*—
Balchan, Anthony S.; and Cowan, George R., 3,667,911.
- Cowan, James H., Jr.; and Rostoker, David, to Corning Glass Works. Batch for producing cellulated glassy bodies from rock. 3,666,506, 5-30-72, Cl. 106-41.000.
- Cowan, John G., to United States of America, Navy. Display for multi channel sonars. 3,701,089, 10-24-72, Cl. 340-3.00r.
- Cowan, Lee R., to C.R.C. Industries. Bearing assembly. 3,655,226, 4-11-72, Cl. 287-119.
- Cowan, Philip L., to Electrogas dynamics, Inc. Electrostatic paint spray system. 3,645,447, 2-29-72, Cl. 239-15.
- Cowan, Philip L. Electro-gasdynamic power generation. 3,651,354, 3-21-72, Cl. 310-10.
- Cowan, Philip L., to Electrogas dynamics, Inc. Electrostatic spray gun construction. 3,653,592, 4-4-72, Cl. 239-15.
- Cowan, Philip L., to Electrogas dynamics, Inc. Electrostatic spray coating apparatus. 3,693,877, 9-26-72, Cl. 239-15.000.
- Cowan, Richard L., to Whirlpool Corporation. Combination drain manifold and self-cleaning filter. 3,681,947, 8-8-72, Cl. 68-18.00f.
- Cowan, Stanley W.: *See*—
Burness, Donald M.; Cowan, Stanley W.; and Wright, Charles J., 3,642,908.
- Cowan, Wavell Frederick. Apparatus for testing the tensile strength of sheet material. 3,707,119, 12-26-72, Cl. 73-95.000.
- Cowans, Kenneth W., to Sub-Marine Systems Incorporated. Gas and liquid processing system. 3,699,775, 10-24-72, Cl. 62-55.000.
- Coward, Charles, Jr. Air distribution/filtration device for clean rooms. 3,688,477, 9-5-72, Cl. 55-418.000.
- Cowdrey, Roy M., to Singer Company, The. Self propelled pinking device. 3,668,780, 6-13-72, Cl. 30-178.
- Cowdrey, Roy M.; and Current, Wayne A., to Singer Company, The. Pedestal for electric scissors. 3,698,087, 10-17-72, Cl. 30-228.000.
- Cowe, Peter L.: *See*—
Durrant, George G.; and Cowe, Peter L., 3,649,321.
- Cowell, Clifton Douglas; and Martin, Karl Anthonie, to Imperial Chemical Industries Limited. Synthetic polyamide compositions. 3,651,010, 3-21-72, Cl. 260-45.95.
- Cowell, Robert L.; May, Richard L.; See, Thomas E.; and Stastny, Edwin O., to Mattel, Inc. Miniature phonograph. 3,633,924, 1-11-72, Cl. 274-9.
- Cowen, Samuel H., to Chemed Corporation. Film-tissue paper adhesive laminates. 3,669,822, 6-13-72, Cl. 161-130.000.
- Cowking, Charles Brian: *See*—
Linning, David Lees; and Cowking, Charles Brian, 3,676,296.
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Stemp, Leslie William, 3,692,142.
- Cowlard, Frederick C.; and Ord, George, to Plessey Company Limited. The. Manufacture of composite ferrites. 3,645,672, 2-29-72, Cl. 23-51.
- Cowlard, Frederick Claud; and Ord, George, to Plessey Company Limited. The. Heat transfer apparatus. 3,632,974, 1-4-72, Cl. 219-371.
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- Cowles, John O.: *See*—
Heckman, Richard A.; and Cowles, John O., 3,703,208.
- Cowles, Walter C.; and Iarossi, Frank J., to Esso Research and Engineering Company. Drip pan LNG tank. 3,692,205, 9-19-72, Cl. 220-9.0lg.
- Cowley, Brian Richard: *See*—
Clark, John Colin; Cowley, Brian Richard; Gregory, Gordon Ian; Kennedy, James; and Long, Alan Gibson, 3,647,788.
- Cowley, Mike L. G. Can mounted pump device. 3,640,432, 2-8-72, Cl. 222-82.
- Cowlin, Christopher J.: *See*—
Wolf, Robert L.; and Cowlin, Christopher J., 3,690,100.
- Cowlin, John William: *See*—
Phillips, John Arnaud; and Cowlin, John William, 3,689,937.
- Cowling, Ronald. 3-Hydroxy-4-benzoylphenyl cyclic phosphates. 3,686,367, 8-22-72, Cl. 260-937.000.
- Cowmeadow, Richard R., to Bunker-Ramo Corporation, The. Diaphragm seal for an electrical connector. 3,643,206, 2-15-72, Cl. 339-94.

- Cowmeadow, Richard R., to Bunker-Ramo Corporation, The. Connector device having detent lock. 3,646,495, 2-29-72, Cl. 339-14.
- Cowmeadow, Richard R., to Bunker-Ramo Corporation, The. Electrical connector having laminated contact element. 3,648,222, 3-7-72, Cl. 339-14.
- Cowpland, Michael C. J., to Microsystems International Limited. Voltage clipping circuit. 3,703,647, 11-21-72, Cl. 307-237.000.
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- Cox, Arthur T. Guides for sliding doors. 3,701,179, 10-31-72, Cl. 16-90.000.
- Cox, Bernard H.: See—
Carlile, Alfred E.; and Cox, Bernard H., 3,685,105.
- Cox, Charles D.; and Liggett, Thomas, to United States of America, Navy. Production of small spherical particle nitrocellulose. 3,671,515, 6-20-72, Cl. 260-223.000.
- Cox, Clifford B. Remote control door lock. 3,677,043, 7-18-72, Cl. 70-92.000.
- Cox, Clyde Harold. Sludge dewatering. 3,695,173, 10-3-72, Cl. 100-74.000.
- Cox, Conrad M.; and Fischer, Robert B., to International Business Machines Corporation. Method and apparatus for testing gap surface finish and winding characteristics of a magnetic head subassembly. 3,681,682, 8-1-72, Cl. 324-34.00r.
- Cox, Duane M., to Thiokol Chemical Corporation. Hot gas valve. 3,680,788, 8-1-72, Cl. 239-265.230.
- Cox, Duncan B., Jr.; and Fertig, Kenneth, to Massachusetts Institute of Technology. Position measuring transducer comprising a stator and relatively movable flux altering member. 3,641,429, 2-8-72, Cl. 324-34.
- Cox, Duncan B., Jr.; Fertig, Kenneth; and Fulton, Donald E., to Massachusetts Institute of Technology. Phase-locked resolver tracking system. 3,667,031, 5-30-72, Cl. 323-101.000.
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- Cox, Edward A.: See—
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- Cox, Edwin W., to Cox, W. T., Company. Convertible raid-highway vehicle. 3,701,323, 10-31-72, Cl. 105-215.00c.
- Cox, Eric William. Stabilised platform for window cleaning and like uses. 3,637,047, 1-25-72, Cl. 182-222.
- Cox, Ernest Francis, to Ronson Corporation. Divided flow hairdryer. 3,674,980, 7-4-72, Cl. 219-367.000.
- Cox, Ernest H., to Tenneco Chemicals, Inc. Constant concentration hydrochloric acid by varying water feed proportionally to temperature. 3,666,424, 5-30-72, Cl. 23-312.
- Cox, Ernest P. Windshield air deflector. 3,647,256, 3-7-72, Cl. 296-91.
- Cox, Eugene O. Garden tool. 3,688,484, 9-5-72, Cl. 56-400.120.
- Cox, Frederick L.; and Krumreich, Jack E., to Tri-Industries, Inc. Honeycomb ribbon pad manufacturing apparatus. 3,671,711, 6-20-72, Cl. 219-117.0hd.
- Cox, Harold E.: See—
Wires, Harold O.; Rickly, Samuel E.; Cox, Harold E.; and Preble, Duane M., 3,632,990.
- Cox, Howard Nesbit, to General Electric Company. Motor drive system for rolling mill. 3,683,653, 8-15-72, Cl. 72-8.000.
- Cox, Irvin W., to Cambridge Thermionic Corporation. Process of making flocked plate structure for electric batteries. 3,676,253, 7-11-72, Cl. 156-279.000.
- Cox, James E., to Magnavue, Inc. Mirror and lens assembly. 3,632,191, 1-4-72, Cl. 350-202.
- Cox, James P., to Inglis, John, Frozen Foods Company. Dual belt machine for trimming projections from globular articles. 3,669,164, 6-13-72, Cl. 146-81.
- Cox, James P., to Inglis, John, Frozen Foods Company. Method for trimming projections from globular articles. 3,677,315, 7-18-72, Cl. 146-224.000.
- Cox, James P. Stick-classifying method and apparatus. 3,702,655, 11-14-72, Cl. 209-80.000.
- Cox, Jay A., to Gulton Industries, Inc. Power inverter oscillator circuit. 3,691,450, 9-12-72, Cl. 321-45.00r.
- Cox, John B.; and Stoltz, Jacques R. Time averaging method and apparatus for obtaining fluid measurements. 3,693,435, 9-26-72, Cl. 73-194.00e.
- Cox, John J., Jr.; and Fisher, Richard G., to Du Pont de Nemours, E. I., and Company. Lead frame connector and electronic packages containing same. 3,689,684, 9-5-72, Cl. 174-68.500.
- Cox, John M., to General Motors Corporation. Storage battery cover. 3,647,556, 3-7-72, Cl. 136-170.
- Cox, John Michael: See—
Bent, Keith Joseph; and Cox, John Michael, 3,682,971.
Brooks, David Hugh; Cox, John Michael; and Kay, Ian Trevor, 3,646,094.
- Cox Manufacturing Co., Inc.: See—
Cox, Paul D., 3,635,646.
- Cox, Melvin R., to Owens-Corning Fiberglass Corporation. Condition responsive control circuit. 3,634,699, 1-11-72, Cl. 307-118.
- Cox, Michael C. L., to Gillette Company, The. Urine collection device. 3,680,543, 8-1-72, Cl. 128-2.00f.
- Cox, Norman R.; and Saunby, John B., to Union Carbide Corporation. Oxidation of butane. 3,646,128, 2-29-72, Cl. 260-533.
- Cox of Watford Limited: See—
Babbs, Frederick William, 3,685,872.
- Cox, Paul D., to Cox Manufacturing Co., Inc. Gas burner. 3,635,646, 1-18-72, Cl. 431-89.
- Cox, Paul R., Jr.: See—
Burroughs, Ralph H.; and Cox, Paul R., Jr., 3,667,608.
- Cox, Phillip W.: See—
Smith, William F.; Mitchell, John H.; Edwards, William M.; and Cox, Phillip W., 3,680,975.
- Cox, Raymond E.; and Ehrlich, Robert M., to General Foods Corporation. Process for making jams and jellies. 3,681,086, 8-1-72, Cl. 99-129.000.
- Cox, Raymond W.: See—
Watkins, Phillip L.; and Cox, Raymond W., 3,700,931.
- Cox, Robert A.: See—
Moser, Gene W.; Cox, Robert A.; and Teza, James E., 3,686,429.
- Cox, Robert Earl: See—
Johannsen, Bruno Bernhardt; and Cox, Robert Earl, 3,656,556.
- Cox, Robert J.: See—
Clecak, Nicholas J.; and Cox, Robert J., 3,679,670.
Clecak, Nicholas J.; Cox, Robert J.; and Moreau, Wayne M., 3,695,886.
Clecak, Nicholas J.; and Cox, Robert J., 3,697,595.
- Cox, Robert James: See—
Dychdala, George Roman; and Cox, Robert James, 3,645,005.
- Cox, Robert M., to SLI Industries. Control valve assembly with mechanical feedback. 3,698,437, 10-17-72, Cl. 137-625.620.
- Cox, Robert P.; and Fish, Leonard A., to Wham-O Manufacturing Company. Foamable resinous composition. 3,705,669, 12-12-72, Cl. 222-394.000.
- Cox, Roger G.: See—
McDonald, Kent A.; and Cox, Roger G., 3,664,180.
- Cox, Ronald E., to Collins Radio Company. Command bar mechanism for flight director indicator aircraft instrument. 3,654,597, 4-4-72, Cl. 340-27.
- Cox, Ronald H.; and Strack, Hans A., to Texas Instruments, Incorporated. Ohmic contacts for gallium arsenide semiconductors. 3,669,655, 6-13-72, Cl. 74-173.00r.
- Cox, Victor J.: See—
Callendar, Max V.; and Cox, Victor J., 3,686,670.
- Cox, W. T., Company: See—
Cox, Edwin W., 3,701,323.
- Coy, Don R.: See—
Zwetzig, Brian L.; and Coy, Don R., 3,682,486.
- Coy, Don R., to Ampex Corporation. Tape drive roller. 3,659,797, 5-2-72, Cl. 242-55.19.
- Coyer, Robert D.; and Weigel, Robert M.; deceased (by Weigel, Virginia; heiress), to United States of America, Air Force. Survivable telescoping antenna. 3,704,466, 11-28-72, Cl. 343-719.000.
- Coyle, Bernard T., Jr.: See—
Andrews, Paul A.; and Coyle, Bernard T., Jr., 3,644,116.
- Coyle, Edward L.: See—
Grover, George M.; and Coyle, Edward L., 3,686,040.
Yurkoski, Frank R.; Coyle, Edward L.; Needham, Robert F.; and Rollins, Dallas W., 3,687,087.
- Coyle, Edward L.; Josephson, Edgar F.; and Schipper, Dennis J., to ACF Industries, Incorporated. Humidity control in a temperature controlled railway car. 3,694,925, 10-3-72, Cl. 34-46.000.
- Coyle, James, to Shell Oil Company. Hydroxylation of aromatics. 3,699,175, 10-17-72, Cl. 260-621.00g.
- Coyle, Jan R. Thermal battery with percussion cap. 3,679,487, 7-25-72, Cl. 136-90.000.
- Coyle, Jan R., to Threadline Fastener Corporation. Fastener and method of making the same. 3,687,181, 8-29-72, Cl. 151-14.00r.
- Coyle, Jan Robert; and Stevens, Robert Walter. Capacitor energized channel stepping means for battery operated tape players. 3,676,609, 7-11-72, Cl. 179-100.10r.
- Coyle, John Cadden; and Coulson, Derrick, to Rolls-Royce Limited. Vehicle air conditioning system. 3,656,541, 4-18-72, Cl. 165-16.
- Coyle, Roy M., Sr., 1/2 to Wrau, Norman J. Thermostatic expansion valve for refrigeration system. 3,696,628, 10-10-72, Cl. 62-115.000.
- Coyle, Vincent E.: See—
Schindel, Arnold; and Coyle, Vincent E., 3,669,231.
- Coyne et Bellier, Bureau d'Ingenieurs Conseils, mesne: See—
Puyo, Andre; and Habib, Pierre Andre, 3,701,554.
- Coyne, Francis P., to Ingersoll-Rand Company. Drill rod indexing device. 3,684,039, 8-15-72, Cl. 175-85.000.
- Coyne, Francis P., to Ingersoll-Rand Company. Spread center bushing. 3,687,226, 8-29-72, Cl. 180-9.500.
- Coyne, James Christopher; and Smith, Arnold Ray, to Bell Telephone Laboratories, Incorporated. Impulse-reaction propulsion cycle for mole. 3,642,076, 2-15-72, Cl. 173-91.

- Coyne, Merton W.; and Palauro, Dieter K., to Gardner-Denver Company. Force pulse shaping member for percussion tool. 3,640,351, 2-8-72, Cl. 173-105.
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Lombardi, Louis J.; Coyne, Roy J.; and Green, Charles E., 3,681,474.
- Coyne, William E.: See—
Cusic, John W.; and Coyne, William E., 3,644,346.
- Coyne, William E.; and Cusic, John W., to Searle, G. D., & Co. Dibenzof[a,e]cyclopropa[c]cycloheptene derivatives. 3,658,908, 4-25-72, Cl. 260-590.
- Cozart, Robert T. Loudspeaker using wall as diaphragm. 3,636,281, 1-18-72, Cl. 179-181.
- Cozewith, Charles; and Tornqvist, Erik G. M., to Esso Research and Engineering Company. Butadiene polymerization catalyst comprising TiX_nAl_{3-n} organoaluminum compound and Lewis acid. 3,642,758, 2-15-72, Cl. 260-94.3.
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- Cozic, Albert. Bilge pump for boats. 3,644,062, 2-22-72, Cl. 417-211.
- Cozza, Giorgio; Bottai, Gabriele; and Barilli, Filippo, to Societa Italiana Resine S.p.A. Process for the manufacture of sodium sulphate. 3,706,531, 12-19-72, Cl. 23-121.000.
- Cozzarin, Virgil J.: See—
Kipple, Harry P.; Cozzarin, Virgil J.; and Kapperman, Francis C., 3,683,154.
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- CP Conseiller en Packaging S.A.: See—
Hausler, Thomas; Werren, Heinz; and Eltschinger, Ernest, 3,707,274.
- CPC International Inc.: See—
Abdullah, Mukhtar, 3,654,082.
Armbruster, Frederick C.; and Abdullah, Mukhtar, 3,652,398.
Armbruster, Frederick Carl; and Jacaway, William Arthur, Jr., 3,640,847.
Berneti, Raffaele; and Holty, David W., 3,644,390.
Brown, Bernard Bean; and Ruopp, Donald Carl, 3,691,198.
Carrell, Peter K., 3,706,598.
Cescato, Richard W., 3,654,263.
Cescato, Richard W., 3,706,584.
Clegg, John Martin; Swidinsky, John; and Brown, Bernard Beau, 3,644,396.
Cooper, Irwin; Parker, Wilbur Allen; and Melnick, Daniel, 3,671,266.
Daggy, Elmer E.; and Melnick, Daniel, 3,649,302.
Deaton, Irving F., 3,695,933.
Germino, Felix J.; and Caracci, Joseph R., Jr., 3,671,269.
Germino, Felix Joseph; and Caracci, Joseph Ronald, 3,637,656.
Germino, Felix Joseph; Stejskal, Joseph Frank; Christensen, Edwin Hans; and Kite, Francis Ervin, 3,661,895.
Gibbons, John P.; and Wondolowski, Lawrence, 3,706,726.
Giesecke, Frederick Adolph, 3,677,290.
Gooding, Chester M., 3,674,821.
Gooding, Chester Martin; Parker, Wilbur; and Melnick, Daniel, 3,671,267.
Gramera, Robert E.; and Hicks, James P., 3,632,535.
Gramera, Robert Eugene, 3,657,167.
Haus, Joseph Benjamin, 3,683,078.
Horn, Harold Edwin; Kimball, Bruce Allan; and Godzicki, Martin Michael, 3,676,155.
Hull, Glenn Arden, 3,639,389.
Hull, Glenn Arden, 3,669,955.
Jensen, Edward R.; Long, John E.; and Williams, Leamon D., 3,666,557.
Johnson, Calvin K., 3,654,261.
Johnson, Calvin Keith, 3,692,733.
Linderman, Roger C.; and Cline, Charles D., 3,640,823.
Martin, Ronald Raymond; and Danner, John Russell, Jr., 3,650,712.
Maurukas, Frank A., 3,644,274.
Meyer, Gilbert R.; and Everett, Rollo J., 3,674,555.
Mokrzycki, Stanley Martin; Sexton, Edwin Leon; Powers, Thomas George; and Melnick, Daniel, 3,677,768.
Mooth, Robert A.; Ciesla, Stanley F.; and Roberts, Hugh J., 3,644,332.
Robinson, Denis; Whelan, Richard Howard; Katz, Philip Harvey; and Montuori, Anthony George, 3,682,663.
Smith, Jay Allen, 3,663,372.
Suekane, Mikio; and Satake, Chikako, 3,681,195.
Van Wyk, Paul H., 3,635,877.
Walton, Raoul Guillaume Philippe, 3,634,395.
Walton, Raoul Guillaume Philippe, 3,650,829.
Williams, Leamon D.; and Jensen, Edward R., 3,666,511.
- CPC International, Inc., mesne: See—
Ayukawa, Yaichi; Naruse, Uhei; Itoh, Tadayoshi; and Miyakawa, Tsuneaki, 3,671,261.
- Tamura, Masabi; Yoda, Masayuki; Shinya, Seishi; and Ayukawa, Yaichi, 3,686,144.
- Walton, Raoul Guillaume Philippe, 3,660,377.
- Walton, Raoul Guillaume Philippe, 3,692,542.
- CPS Industries, Inc.: See—
Grikis, Raimonds, 3,632,464.
- Crabb, Clarence R.; and McDonald, Leighton S., to Dow Chemical Company, The. Stabilization of chlorinated solvents. 3,641,169, 2-8-72, Cl. 260-652.5.
- Crabb, Elmer R.; and Warren, Larry G., to Caterpillar Tractor Company. Brake control system with transmission interlock. 3,635,317, 1-18-72, Cl. 192-4.
- Crabbe, Harlis G. Hinge pin remover. 3,689,977, 9-12-72, Cl. 29-253.000.
- Crabbe, Pierre: See—
Fried, John H.; and Crabbe, Pierre, 3,654,321.
Rosenkranz, George; and Crabbe, Pierre, 3,644,367.
- Crabbe, Pierre; and Biollaz, Michel S., to Syntex Corporation. Process for preparing useful 17 α -hydroxy-20-keto-21-acyloxy pregnanes. 3,658,856, 4-25-72, Cl. 260-397.45.
- Crabbe, Pierre; and Velarde, Esperanza, to Syntex Corporation. Process for preparing 17 α -hydroxy-20-keto and 17 α , 21-dihydroxy-20-keto pregnanes and derivatives and intermediates thereof. 3,681,410, 8-1-72, Cl. 260-397.300.
- Crabbe, Pierre; and Fried, John H. Preparation of 17 alpha propadienyl steroids. 3,681,411, 8-1-72, Cl. 260-397.400.
- Crabbe, Pierre; and Graf, Ulrich Werner, to Syntex Corporation. 17 α -(2,3-Methylene-prop-1-en-1-yl)-steroids and 17 α -(2,3-monohalomethylene and 2,3-dihalomethylene) derivatives thereof. 3,682,984, 8-8-72, Cl. 260-397.400.
- Crabtree, Allen, to Imperial Chemical Industries Limited. Substituted anilino-s-triazines. 3,666,759, 5-30-72, Cl. 260-249.500.
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- Crabtree, Eleanor V.: See—
Poziomek, Edward J.; and Crabtree, Eleanor V., 3,645,693.
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Thorne, Arthur Robert Hamilton, 3,638,158.
- Crabtree, John Dinsdale; Grundy, Kenneth Henry; and Johnson, Alan Edward, to Fibreglass Limited. Unsaturated polyester resins admixed with polyurethanes or cycloaliphatic diepoxides. 3,663,500, 5-16-72, Cl. 260-40.
- Crabtree, Kenneth L., to Keys Fibre Company. Egg carton with exterior windows. 3,647,132, 3-7-72, Cl. 229-2.5.
- Crabtree, Kenneth L., to Keyes Fibre Company. Tray with reinforced article pockets. 3,695,479, 10-3-72, Cl. 217-26.500.
- Crabtree, Norman. Vehicle brake actuator and lock assembly. 3,684,063, 8-15-72, Cl. 188-265.000.
- Crabtree, Orville R.; and Thomas, Manuel A., to Deering Milliken Research Corporation. Textile finishing process and products produced thereby. 3,649,344, 3-14-72, Cl. 117-135.5.
- Crabtree, Ronald; and Horacek, Peter. Vehicle lifting device. 3,674,252, 7-4-72, Cl. 269-55.000.
- Crabtree, Royale R.: See—
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- Craddick, Eleanor M.: See—
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- Craddick, Elmer C.; and Craddick, Eleanor M. Ditch digging machine disk auger attachment. 3,654,713, 4-11-72, Cl. 37-80.
- Craddock, Wayne Edward; and Smith, Stanley George, to Du Pont de Nemours, E. I., and Company. Stock cutter for elastomer drying press. 3,645,200, 2-29-72, Cl. 100-98.
- Crafford, Thomas J.; Shilo, Alexander I.; and Cary, Harry W., Jr., to Crafford Tool & Die Co. Automatic chain cutting machine. 3,640,164, 2-8-72, Cl. 83-67.
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- Craft, Jack, to RCA Corporation. Peak-to-peak detector. 3,701,022, 10-24-72, Cl. 325-318.000.
- Craft, Loie C., Jr. Trap for gophers and the like. 3,650,061, 3-21-72, Cl. 43-77.
- Craft Master Corporation: See—
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- Craft, Nina B.; and Sprague, Gary R., to Medical Planning Associates. Sitz bath. 3,648,296, 3-14-72, Cl. 4-6.
- Crafton, Paul A., to Constellation Science and Technology Corporation, mesne. Secure communications control system. 3,654,604, 4-4-72, Cl. 340-147.
- Crafton, Paul A.; and Mittmeyer, Ingmar, to National Telecommunications System, Inc. Communication system. 3,693,155, 9-19-72, Cl. 340-147.00r.
- Crafts, Robert L., to Telex Corporation, The. Reversible incremental recording apparatus. 3,659,806, 5-2-72, Cl. 242-201.

- Cragg, Hoyt J.; and Lindsay, Kenneth L., to Ethyl Corporation. Production of organo aluminum compounds. 3,651,114, 3-21-72, Cl. 260y448.
- Cragg, Hoyt J.; and Nolen, Doyle A., to Ethyl Corporation. Process of oxidizing aluminum alkyls. 3,660,447, 5-2-72, Cl. 260-448.
- Craggs, Donald E.; and Gillen, Richard S., to Union Oil Company of California. Floating oil skimmer. 3,704,784, 12-5-72, Cl. 210-242.000.
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Metcalf, James F.; and Klingerman, Robert H., 3,696,223.
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Jones, James H.; and Cragoe, Edward J., Jr., 3,660,397.
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- Cragoe, Edward J., Jr.; and Jones, James H., to Merck & Co., Inc. Lower alkyl 3-hydroxy and 3-mercaptopyrazinoates. 3,660,400, 5-2-72, Cl. 260-250.
- Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., to Merck & Co., Inc. Substituted 1-oxoinden-5-yloxy-alkanoic acids. 3,668,241, 6-6-72, Cl. 260-520.000.
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- Craig, Burnie M., to Paramount Industries. Device responsive to motion and tampering. 3,646,289, 2-29-72, Cl. 200-61.47.
- Craig, Colin: See—
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- Craig, Dale E.: See—
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- Craig, David D. H.: See—
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- Craig, Dwin R., to Ingenuics, Inc. Gravity operated liquid prism. 3,655,274, 4-11-72, Cl. 350-286.
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- Craig, Glenn D., to Aqua-Chem, Inc. Combination fire and water tube boiler. 3,638,621, 2-1-72, Cl. 122-140.
- Craig, Grantland A., to Paper Converting Machine Company, Inc. Smock-forming machine and method. 3,684,611, 8-15-72, Cl. 156-250.000.
- Craig, Grantland A., to Paper Converting Machine Company, Inc. Garment-making method. 3,696,445, 10-10-72, Cl. 2-243.000.
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- Craig, Jack C. Fishing lure. 3,693,275, 9-26-72, Cl. 43-15.000.
- Craig, Jimmie M.: See—
Willard, Robert C.; Craig, Jimmie M.; and Jackson, Lloyd J., 3,706,277.
- Craig, Mordecai R.: See—
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- Craig, Paul N.; and Zirkle, Charles L., to Smith Kline & French Laboratories. 10-Bromoalkyl-anthracenes. 3,694,514, 9-26-72, Cl. 260-648.00g.
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- Craig, Robert D.; Evans, Richard O.; and Grant, Gerald F., to Anning-Johnson Company. Partitioning system having removable panels. 3,699,734, 10-24-72, Cl. 52-127.000.
- Craig, Sam N., to Wascon Systems, Inc. Hydraulic transportation system. 3,653,720, 4-4-72, Cl. 302-15.
- Craig, Sam N.; Warner, Ellis R., Jr.; and Buckman, Wayne T., to Wascon Systems, Inc. Press. 3,688,687, 9-5-72, Cl. 100-117.000.
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- Craig, William A. Orthopedic appliance. 3,699,954, 10-24-72, Cl. 128-80.00a.
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- Craig, William E.: See—
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- Craig, William L., to Vanderbilt, R. T., Company Inc. Process of precipitating H_2TiO_3 . 3,689,219, 9-5-72, Cl. 23-202.00r.
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Beal, Lawrence E.; Miller, Earl D.; and Craig, William R., 3,646,287.
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- Crainich, Victor A., Jr., to National Cash Register Company, The. Manufacture of minute capsules, en masse, and dewatering their walls. 3,657,143, 4-18-72, Cl. 252-316.
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Lewis, Robert N.; and Cram, Bruce R., III, 3,653,963.
- Cram, Milton E.: See—
Volkel, George D.; and Cram, Milton E., 3,701,006.
- Cram, Milton E., to Schlumberger Technology Corporation. Method and apparatus for investigating the spontaneous potential of earth formations. 3,638,106, 1-25-72, Cl. 324-1.
- Cram, Robert S., to Design Creations, Inc. Hanger for material in sheet form. 3,671,004, 6-20-72, Cl. 248-467.000.
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- Cramer, Mert, to Berkeley/Colorteam Mfg., Inc. Dimmer circuit. 3,684,919, 8-15-72, Cl. 315-194.000.
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- Cramer, Robert L., to Bendix Corporation. The. Fail-safe liquid oxygen to gaseous oxygen conversion system. 3,707,078, 12-26-72, Cl. 62-50.000.
- Cramer, Roy A., Jr. Water moving apparatus for destratification, ice reduction and barnacle control. 3,667,873, 6-6-72, Cl. 417-424.000.
- Cramer, Werner: See—
Levacher, Friedrich; Ditscheid, Hans Leo; Burger, Walter; Aselborn, Peter; and Cramer, Werner, 3,672,196.
- Cramer, William H.: See—
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- Crampsey, Edward, to Courtaulds Limited. Manufacture of delustred nylon filaments. 3,640,942, 2-8-72, Cl. 260-37.
- Cramwinkel, Hans, to U.S. Philips Corporation. Cyclic group processing with internal priority. 3,643,218, 2-15-72, Cl. 340-172.5.
- Crane, Bidwell C., to Stile-Craft Manufacturers, Inc. Latching device for coupling assembly. 3,643,985, 2-22-72, Cl. 285-189.
- Crandall, Nelson: See—
Blount, Charles, Jr.; and Crandall, Nelson, 3,640,102.

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- Crandall, Stanley C.; Harris, Billy J.; and Nelson, Richard L., to Gilbert & Barker Manufacturing Company. Light-controlled fluid dispenser. 3,662,924, 5-16-72, Cl. 222-64.
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- Crandell, Melvin G.: See—
Baller, Ernst O.; Crandell, Melvin G.; Pease, Donald L.; and Witinski, Francis D., 3,674,363.
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Valle, Thomas, 3,664,006.
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- Crandon, Harry D.; and Le Boeuf, Albert R., to American Optical Corporation. Polycarbonate substrate with durable, abrasion and scratch-resistant, antifogging coating. 3,700,487, 10-24-72, Cl. 117-72.000.
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- Lennon, Andrew Gordon, 3,678,767.
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Dehne, Hans D., 3,654,815.
- Kanter, Jerome J., 3,704,153.
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- Crane, Edward J., to International Agri-Systems, Inc. Poultry picker. 3,673,637, 7-4-72, Cl. 17-11.100.
- Crane, Edward J., to International Agri-Systems, Inc. Method and apparatus for eviscerating poultry. 3,689,961, 9-12-72, Cl. 17-45.000.
- Crane, Elmer Earl. Circular irrigation system with hydraulic drive. 3,690,343, 9-12-72, Cl. 137-344.000.
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- Crane, Harold E. Voltage monitoring device having a pair of differential amplifiers. 3,663,958, 5-16-72, Cl. 324-133.
- Crane, Herbert R. Band saw with sawdust ejection means. 3,669,163, 6-13-72, Cl. 143-157.
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- Crane, Jacob; and Ford, James A. Copper base alloys. 3,694,273, 9-26-72, Cl. 148-32.000.
- Crane, Joanne C. Decorative novelty device. 3,654,046, 4-4-72, Cl. 161-5.
- Crane Julius A.: See—
Saultz, Robert H.; and Crane Julius A., 3,659,778.
- Crane Packing Company: See—
Inka, Egons, 3,648,890.
- Nappe, William D., 3,675,933.
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Wilkinson, Samuel Clifford Walter, 3,637,222.
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- Crano, John C.; and Fleming, Elizabeth K., to PPG Industries, Inc. Synthesis of propylene from ethylene. 3,637,894, 1-25-72, Cl. 260-683.
- Crans, Roland C., to Holcroft & Company. Gas atmosphere generating means for heating-treating furnaces. 3,644,099, 2-22-72, Cl. 23-281.
- Cranskens, Georg; Jakobson, Hans; Rathje, Armin; and Salger, Werner, to Lumoprint Zindler KG. Developer replenishing device for copying apparatus. 3,641,907, 2-15-72, Cl. 95-89.
- Cranskens, Georg; Krober, Gunther; and Palm, Richard, to Lumoprint Zindler K.G. Photocopying machine having removable modules. 3,698,804, 10-17-72, Cl. 355-3.000.
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Atwell, William J.; and Cranston, Lawrence, 3,654,967.
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- Crapanzano, Russell S. Gravity activated prosthetic device. 3,683,423, 8-15-72, Cl. 3-1.100.
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- Crapsey, Arthur H., Jr., to Eastman Kodak Company. Adjusting mechanism for zoom lens system. 3,631,786, 1-4-71, Cl. 95-45.
- Crary, Edward N., to Brady, W. H., Co. Photopolymerizable compositions and articles. 3,661,576, 5-9-72, Cl. 96-35.1.
- Crary, William G.: See—
Barton, James F., Jr.; and Crary, William G., 3,634,991.
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Cheney, Lee C.; Godfrey, John C.; Crast, Leonard B., Jr.; and Luttinger, Joyce R., 3,652,546.
- Crast, Leonard Bruce, Jr., to Bristol-Myers Company. 7-[α -(1,3-Substituted-amidino-2-thio)acetamido] cephalosporanic acids. 3,646,025, 2-29-72, Cl. 260-243.
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Becklin, Dennis M., 3,655,215.
- Craven, George Frederick, to International Standard Electric Corporation. Waveguide filter. 3,634,788, 1-11-72, Cl. 333-73.
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- Craven, Harry J.; Hannahan, William F.; and Viscusi, James J., to General Electric Company. Apparatus for producing a corrugated member. 3,685,931, 8-22-72, Cl. 425-89.000.
- Craven, James M., to Du Pont de Nemours, E. I., and Company. Polyiminohydantoins and method of preparation. 3,645,978, 2-29-72, Cl. 260-77.5.
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- Craven, William J., to Allied Chemical Corporation. Polyethylene process and catalyst. 3,639,381, 2-1-72, Cl. 260-94.9.
- Craven, William J., to Dart Industries Inc., mesne. Copolymers of propylene and an amino substituted acrylic comonomer. 3,644,580, 2-22-72, Cl. 260-878.
- Cravener, James A. Tamper-proof lock for small arms. 3,673,725, 7-4-72, Cl. 42-1.00r.
- Cravens, Mark C., Jr. Milling machine draw bar device. 3,680,437, 8-1-72, Cl. 90-11.00d.
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Coronelli, Carolina; and Craveri, Renato, 3,697,646.
- Cravits, Phillip, to London, Arnold B., mesne. Escalator cleaning apparatus. 3,678,533, 7-25-72, Cl. 15-302.000.
- Crawford, Alexander, to Massey-Ferguson Services, N.V. Feed mechanism for hay balers. 3,706,273, 12-19-72, Cl. 100-189.000.
- Crawford, Allan H.: See—
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- Crawford, Burdette B. Hand truck with means for shifting center of gravity of load. 3,642,301, 2-15-72, Cl. 280-47.12.
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- Crawford, David D.; and Elvington, John W. Reinforced septic tank. 3,662,918, 5-16-72, Cl. 220-85.
- Crawford, Donald C., to FMC Corporation. Rotary shear for wrapping machines. 3,703,841, 11-28-72, Cl. 83-341.000.
- Crawford, Douglas W.: See—
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- Crawford, Duffer B.; and Norenburg, Johannes C., to Pullman Incorporated. Separation of low-boiling gas mixtures. 3,675,434, 7-11-72, Cl. 62-23.000.

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Callahan, Francis J., Jr., 3,694,010.
Dodge, Harry G.; and Spontelli, Leonard P., 3,661,378.
Spontelli, Leonard P., 3,691,604.
- Crawford, Henry. Vehicle deceleration warning apparatus. 3,659,268, 4-25-72, Cl. 340-71.
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- Crawford, Howard H. Grass edger with one-piece cutter bar collar. 3,684,028, 8-15-72, Cl. 172-15,000.
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Woodworth, William H.; and Crawford, Jack A., 3,661,347.
- Crawford, James J.: *See*—
Frezzolini, James; and Crawford, James J., 3,656,045.
- Crawford, John H.: *See*—
Russell, Phillips G.; Guggenbickler, Leon E.; and Crawford, John H., 3,675,791.
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- Crawford, Raymond V.; and Roscoe, Gavin E., to Bibby Chemicals Limited. Polyurethane foam materials. 3,644,237, 2-22-72, Cl. 260-25.
- Crawford, Richard M.; and Parsons, Gerard A., to Cinran Plastics Limited. Garbage bag holder. 3,684,225, 8-15-72, Cl. 248-99,000.
- Crawford, Robert J., to Procter & Gamble Company, The. 4-(4-Methylcyclohex-3-en-1-yl)pent-4-en-1-ol and a process for its synthesis. 3,676,505, 7-11-72, Cl. 260-631,500.
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Randolph, Alan D.; and Crawford, Rufus W., 3,695,932.
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Caputi, Roger W.; and Crawford, Wayne T., 3,662,178.
- Crawford, Wheeler C.: *See*—
Godfrey, Arthur William; Dorn, Peter; and Crawford, Wheeler C., 3,687,852.
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- Crawford, William R.: *See*—
Dubreuil, Philip B.; Bartok, Stephen; and Crawford, William R., 3,672,408.
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Sarring, Ernest J., 3,640,372.
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- Cray, Charles John: *See*—
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- Crayton, Bruce E., to Eastman Kodak Company. Microfiche holding device. 3,658,416, 4-25-72, Cl. 353-95,000.
- Craze, Edward G., Jr.: *See*—
Tyson, Thomas L.; and Craze, Edward G., Jr., 3,662,736.
- C.R.C. Industries: *See*—
Cowan, Lee R., 3,655,226.
- Crc-Crose International, Inc.: *See*—
Clavin, Edward A.; McCullough, Donald H.; and McCullough, David R., 3,705,506.
- Nelson, Jerome W.; and Randolph, James B., 3,632,959.
- Creager, Wade E. Musical instrument with cam controlling reed vibration. 3,693,491, 9-26-72, Cl. 84-402,000.
- Creagh, Linda Truitt. Electro-optical display devices using nematic mixtures with very wide temperature ranges. 3,655,270, 4-11-72, Cl. 350-160.
- Creamer, Adelene. Non-slip foot device. 3,683,519, 8-15-72, Cl. 36-11,500.
- Creamer, Charles Edward, to Union Carbide Corporation. Organosiloxane elastomers. 3,696,068, 10-3-72, Cl. 260-29,10b.
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- Creaser, Leonard F., to Shell Oil Company. Flexible insulants for containers and conduits. 3,682,824, 8-8-72, Cl. 252-62,000.
- Creasy, James R.: *See*—
Winters, Hilary M.; and Creasy, James R., 3,679,970.
- Creative Enterprises International: *See*—
Dunlop, Donald D., 3,659,960.
- Creative Ideas, Inc.: *See*—
Harden, Joseph T., Jr., 3,704,811.
- Creative Polymer Products Corporation: *See*—
Posner, Richard, 3,642,246.
- Creative Tool Company: *See*—
Berg, Louis L., 3,675,515.
- Creators Limited: *See*—
Kent, Cecil, 3,681,180.
Kent, Cecil, 3,705,470.
- Creclius, John D., to United States of America, Navy. Method for dispersing discrete particles. 3,698,185, 10-17-72, Cl. 60-39,020.
- Creclius, William J., to SKF Industries, Inc. Support means for mounting a bearing assembly. 3,655,252, 4-11-72, Cl. 308-236.
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Sanders, Kenneth Douglas; Botley, Geoffrey Sword; and Taylor, Jack William, 3,705,507.
- Credit Systems, Inc.: *See*—
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McGowan, Jared; Di Lello, John; and Kelly, Edward, 3,653,323.
- Credner, Hans-Heinrich; Glockner, Hans; and Nittel, Fritz, to Agfa-Gevaert Aktiengesellschaft. Color photographic silver halide multi-layer material containing cyan-forming couplers. 3,652,286, 3-28-72, Cl. 96-100.
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- Cree, George Benson, Jr. Brake press die system, structure and processes. 3,703,094, 11-21-72, Cl. 72-389,000.
- Creears, T. H., Corporation: *See*—
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- Creed & Company: *See*—
Waren, Frank Arthur Oakley, 3,659,311.
- Creed & Company Limited: *See*—
Mason, Frederick Percival; and Waren, Frank Arthur Oakley, 3,631,962.
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Mason, Frederick Percival; and Waren, Frank Arthur Oakley, 3,631,904.
- Creed, John W., Jr.: *See*—
White, Robert L.; and Creed, John W., Jr., 3,638,462.
- Creed, Leslie H.: *See*—
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- Creedon, John F.; and Kern, Richard W., to International Business Machines Corporation. Multiple light flash photographic process. 3,634,084, 1-11-72, Cl. 96-46.
- Creek, Ronald B.; and Gardner, Karl A., to United States of America, Atomic Energy Commission. Sodium heated steam generator. 3,662,718, 5-16-72, Cl. 122-32,000.
- Creelman, Raymond C. Toilet syncope guard. 3,638,647, 2-1-72, Cl. 128-133.
- Creely, Joseph W., to Baxter Laboratories, Inc. Aerosol type anti-static composition. 3,686,120, 8-22-72, Cl. 252-8,800.
- Creffield, David F., to USM Corporation. Cutting press having improved means for handling cut products. 3,656,380, 4-18-72, Cl. 83-96.
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- Creger, Paul L., to Parke, Davis & Company. 2,2-Dimethyl- α -aryloxy- γ -alkanoic acids and salts and esters thereof. 3,674,836, 7-4-72, Cl. 260-473,00g.
- Creger, Paul L.; and Neuklis, Winifred A., to Parks, Davis & Company. Aryloxyptane compounds. 3,707,566, 12-26-72, Cl. 260-613,00d.
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- Creighton, Stephen M.: *See*—
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- Crellin, Terry M., to Norton Company. Electrochemical recovery of silver and regeneration of used photographic fixing solutions. 3,642,594, 2-15-72, Cl. 204-149.
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Singh, Kanwal N.; Cremean, Stephen P.; and Scott, Donald R., 3,672,442.
- Cremeans, George E., to Battelle Development Corporation, The. Alkali metal salts of polyacetylenic polyoic acids. 3,679,738, 7-25-72, Cl. 260-485,00r.
- Cremer Engineering Company, Inc.: *See*—
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- Cremer, George D., to United States of America, Atomic Energy Commission. Insulation module with superposed deformed core sheets. 3,636,674, 1-25-72, Cl. 52-509.
- Cremer, Gottfried; and Kraus, Joachim, to Fetok GmbH. Means for attaching slabs and tiles on building structures. 3,694,981, 10-3-72, Cl. 52-235,000.
- Cremer, John M.; and Krohne, Norman A., to Cremer Engineering Company, Inc. Periodic timed switching apparatus. 3,668,683, 6-6-72, Cl. 340-309,400.
- Cremer, Joseph: *See*—
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- Cremer, Joseph; and Panter, Herbert, to Knapsack Aktiengesellschaft. Tubular ozonizer. 3,661,763, 5-9-72, Cl. 204-321.
- Cremer, Robert L.: *See*—
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- Crener, Bengt Olof; and Ernlöf, Stig Carl-Oskar, to Aktiebolaget Electrolux. Surface cleaning apparatus. 3,633,240, 1-11-72, Cl. 15-321.
- Crener, Bengt Olof; Anderson, Erik Arne; and Ernlöf, Stig Carl-Oskar, to Aktiebolaget Electrolux. Combination surface treating and suction cleaning apparatus. 3,639,939, 2-8-72, Cl. 15-320.
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- Crenshaw, Paul L.; Flippin, Floyd F.; and Glasgow, James P., to Dow Chemical Company, The. Viscous fluid compositions. 3,634,237, 1-11-72, Cl. 252-8,55.
- Crenshaw, Ronnie R., to Bristol-Myers Company. Tetrahydrotetrahydrothiophenes. 3,678,076, 7-18-72, Cl. 260-330,500.
- Crepeau, Allen E., to Uniroyal, Inc. Non-staining reclaimers. 3,657,160, 4-18-72, Cl. 260-2,3.
- Crepelle and Cie: *See*—
Giegan, Yves; and Tacquet, Maurice, 3,688,986.
- Cresap, Wesley Louis; Fagan, Castle Hugh; and Lufkin, Martin Harrison, to Textron, Inc. Elastomeric rotor blade mount. 3,652,185, 3-28-72, Cl. 416-134.
- Crescentini, Lamberto: *See*—
Mayer, Richard E.; and Crescentini, Lamberto, 3,644,572.
Weedon, Gene C.; and Crescentini, Lamberto, 3,657,386.
- Crescentini, Lamberto, to Allied Chemical Corporation. Polyamide filaments containing polyalkylene ethers and phenolic antioxidants. 3,655,819, 4-11-72, Cl. 260-857.
- Crescenzo, Frank G.; and Dow, Robert L., to United States of America, Navy. Gas generator compositions. 3,639,183, 2-1-72, Cl. 149-18.
- Cresci, Paul A.; and Paris, Thomas H. Hydraulic lift controls. 3,695,710, 10-3-72, Cl. 298-22,00r.
- Creskoff, Jacob J., to Vacuum Concrete Corporation of America. Flexible vacuum lifter. 3,640,562, 2-8-72, Cl. 294-65.
- Crespel, Michel; and Valat, Christian, to Telefonaktiebolaget L M Ericsson. Arrangement for operators telephone set. 3,707,606, 12-26-72, Cl. 179-81,00b.
- Crespi, Giovanni. Dense magnesite furnace hearth having a superficial dolomite-containing layer and method. 3,632,698, 1-4-72, Cl. 264-30.
- Crespi, Giovanni, to Siderpatents, S.A. Utilization of molten slag from metallurgical furnace in manufacture of fused cast refractory shapes. 3,662,058, 5-9-72, Cl. 264-332.
- Cressman, Fred D., to Canada Barrels & Kegs Limited. Fiberglass processing tank. 3,664,161, 5-23-72, Cl. 69-30.
- Cressman, Russell N.; and Bantz, Walter J., to Bethlehem Steel Corporation. Ultrasonic inspection probe. 3,631,714, 1-4-72, Cl. 73-71,5.
- Cressman, Russell N.; Bantz, Walter J.; and Nusbickel, Edward M., Jr., to Bethlehem Steel Corporation. Ultrasonic inspection system with scanned multiple transducers. 3,672,210, 6-27-72, Cl. 73-67,900.
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Kerner, Herman J.; and Cresswell, John H., 3,631,900.
- Cresswell, Richard, to Marconi Company Limited, The. Tracking antenna with anti-backlash spring in gear train. 3,665,482, 5-23-72, Cl. 343-765,000.
- Cresswell, Ronald M.; Menth, John W.; and Seaman, Russell, to Burroughs Wellcome & Co. (U.S.A.) Inc. Method of preparing morpholino cyano-acrylamide. 3,682,957, 8-8-72, Cl. 260-310,000.
- Cresswell, Ronald M.; and Schnapper, Melvin. Process of preparing 3-amino-2-cyano acrylamide. 3,694,484, 9-26-72, Cl. 260-465,400.
- Cresswell, Ronald M.; Menth, John W.; and Seaman, Russell, to Burroughs Wellcome & Co. (U.S.A.) Inc. 5-Benzyl pyrimidines intermediates. 3,697,512, 10-10-72, Cl. 260-240,00r.
- Cresswell, Ronald Morton; and Menth, John William, to Burroughs Wellcome & Co. (U.S.A.) Inc. Benzylidene cyano-acetals. 3,671,564, 6-20-72, Cl. 260-465,00f.
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Hanley, James O.; and Lynch, Michael J., 3,633,748.
- Crest Ultrasonics Corporation: *See*—
Silver, Joseph, 3,668,486.
- Crest-Foam Corporation: *See*—
Brosław, Edwin, 3,700,901.
- Crestani, Bruno: *See*—
Crivellaro, Giovanbattista; and Crestani, Bruno, 3,696,195.
- Cresto, Arturo, to Ferruccio Manzini. Device for supplying fluid under pressure. 3,667,229, 6-6-72, Cl. 60-54,60a.
- Creswell, Samuel J., Iron Works, The: *See*—
Raiguel, William M., Jr., 3,670,848.
- Crete, Darrel R. Color enlarger system. 3,685,901, 8-22-72, Cl. 355-38,000.
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Cretors, Charles De Witt, 3,645,422.
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Cavalli, Fernando; and Cretti, Piero, 3,669,588.
- Creusot-Loire, mesne: *See*—
Bouchet, Jean, 3,640,701.
- Creusot-Loire: *See*—
Babel, Louis, 3,703,601.
Brochard, Claude; and Cossart, Rene, 3,677,114.
Lejeune, Pierre, 3,667,732.
Moreau, Bernard, 3,659,459.
Mouneydiere, Robert, 3,691,962.
Nicot, Gerard, 3,662,577.
Pere, Gerard, 3,706,237.
- Creuz, Walter R., to Aero-Flow Dynamics, Inc. (The Wing Company Division). Apparatus for detecting interruption in the cyclic movement of a member. 3,701,139, 10-24-72, Cl. 340-271,000.
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Kepple, Orren N., 3,633,548.
- Crew, John Mervyn, to Smith & Wesson Chemical Company, Inc. Airborne dispenser. 3,674,174, 7-4-72, Cl. 221-87,000.
- Crews, Clarence M. Battery protective memory system for automotive vehicles. 3,666,959, 5-30-72, Cl. 307-10.
- Crews, Donald R., to Caterpillar Tractor Company. Engine support bushing assembly. 3,633,856, 1-11-72, Cl. 248-99.
- Crews, Samuel T., Jr.: *See*—
Dixon, James W.; and Crews, Samuel T., Jr., 3,680,647.
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Vennin, Gerard G., 3,707,295.
- Cricchi, James R.; and Lancaster, Edgar D., Jr., to Westinghouse Electric Corporation. Complementary MOSFET integrated circuit memory. 3,641,511, 2-8-72, Cl. 340-173.
- Cricchi, James R.; and Hudson, James R., to Westinghouse Electric Corporation. Complementary MOSFET memory cell. 3,644,907, 2-22-72, Cl. 340-173.
- Cricchi, James R., to Westinghouse Electric Corporation. MIS array utilizing field induced junctions. 3,657,614, 4-18-72, Cl. 317-235.
- Cricchi, James R., to Westinghouse Electric Corporation. Resettable non-volatile memory utilizing variable threshold voltage devices. 3,680,062, 7-25-72, Cl. 340-173,00r.
- Cricchi, James R.; and Beydler, William W., to Westinghouse Electric Corporation. Non-volatile memory element and array. 3,683,335, 8-8-72, Cl. 340-173,00r.
- Cricchi, James R., to Westinghouse Electric Corporation. Electro-optic mass memory. 3,702,465, 11-7-72, Cl. 340-173,01t.
- Crichton, Alfred Buxton, to Union Carbide Corporation. Method for vertical welding of aluminum. 3,666,908, 5-30-72, Cl. 219-73.
- Crick, Roger Dudley Salway, to English Electric Company Limited, The. Laminated structures. 3,679,527, 7-25-72, Cl. 161-5,000.
- Crickmer, Charles D. Hydrostatic riser pipe tensioner. 3,643,751, 2-22-72, Cl. 175-7.
- Crickmer, Charles D. Well swab. 3,677,143, 7-18-72, Cl. 92-241,000.
- Criley, Ronald L.; Frost, Richard H.; and Shopalovich, Predrag, to United States of America, Army, mesne. Extraction force transfer system. 3,642,235, 2-15-72, Cl. 244-137.
- Crimi, Fred J., to Union Carbide Corporation. Process for constructing tufted carpets and rugs and bonding agents useful therein. 3,645,949, 2-29-72, Cl. 260-28,5.
- Crimmins, Arthur G.; and Doolittle, Donald B., to All American Industries, Inc. Field-treating device. 3,666,178, 5-30-72, Cl. 239-77.
- Crimmins, Bruce: *See*—
Trefzger, Edwin W.; Crimmins, Bruce; Plunkett, Raymond A.; Petkovsek, Richard J.; and Finster, Leslie Phillip, 3,637,164.
Trefzger, Edwin W.; and Crimmins, Bruce, 3,664,607.
- Crimp, Arthur Elliott; and Ellen, Peter Edington. Rail track support. 3,687,346, 8-29-72, Cl. 238-25,000.
- Cripe, Donald M.: *See*—

- Robinson, Morton; and Cripe, Donald M., 3,649,552.
- Cripe, Maxwell L., to Bendix Corporation. The. Dual lever ratio brake activating apparatus. 3,633,366, 1-11-72, Cl. 60-54.6.
- Cripe, Maxwell L., to Bendix Corporation. The. Vacuum control for servomotor. 3,646,758, 3-7-72, Cl. 60-54.6.
- Cripe, Maxwell L., to Bendix Corporation. The. Check valve with means for relieving fluid pressure from the control chamber. 3,661,174, 5-9-72, Cl. 137-512.3.
- Cripe, Maxwell L., to Bendix Corporation. The. Vacuum pumping device. 3,703,077, 11-21-72, Cl. 60-51.000.
- Cripe, Maxwell L., to Bendix Corporation. The. Dual lever ratio brake activating apparatus. 3,707,075, 12-26-72, Cl. 60-54.60p.
- Crippa, Eugene R.; and Lowry, Ray B., to United States of America, Navy. Magnetic tape with plural clocks. 3,697,969, 10-10-72, Cl. 340-174.10a.
- Cripps, Jack, to Bunker-Ramo Corporation. The. Electrical connectors. 3,665,371, 5-23-72, Cl. 339-90.
- Crisafi, Robert C., to Damon Corporation. Unit dosage package. 3,684,128, 8-15-72, Cl. 221-63.000.
- Crisan, Ioan: See—
Bereczky, Tiberiu; Grunwald, Ernest; and Crisan, Ioan, 3,637,475.
- Crisci, Joseph R.: See—
Ohlbaum, Robert A.; Zanis, Charles A.; and Crisci, Joseph R., 3,653,940.
- Criscuolo, Andrew C. Head for musical instrument. 3,668,296, 6-6-72, Cl. 84-414.
- Crisler, Larry Dean, to Union Special Machine Company. Top feed mechanism for overedge sewing machine. 3,636,899, 1-25-72, Cl. 112-207.
- Crisler, Larry R., to United States of America, Atomic Energy Commission. Production of plutonium formate and plutonium dioxide. 3,660,047, 5-2-72, Cl. 23-344.000.
- Crisman, Marilou; and Howard, Arthur G. Disposable bib. 3,654,629, 4-11-72, Cl. 2-49.
- Crispe, Stanley William; and Wood, Henry, to T. & T. Vicars Limited. Biscuit handling machinery. 3,642,114, 2-15-72, Cl. 198-25.
- Crisplant A/S: See—
Christensen, Svend, 3,662,906.
- Idskov, Arne S.; and Nielsen, Jacob A., 3,637,066.
- Criss, Donald H.; and Pollitt, Erwin P., to Owens-Illinois, Inc. Method and apparatus for blow molding plastic articles. 3,652,751, 3-28-72, Cl. 264-99.
- Criss, Donald H.; and Kontz, Robert F., to Owens-Illinois, Inc. High speed trim machine for blown plastic articles. 3,659,486, 5-2-72, Cl. 82-82.
- Criss, Donald H.; and Kontz, Robert F., to Owens-Illinois, Inc. Method and apparatus for trimming blow molded plastic articles. 3,682,026, 8-8-72, Cl. 82-75.000.
- Criss, William H.; and Shackelford, John R., to Stange Co. Apparatus for applying liquid surface treating materials to sausages. 3,699,877, 10-24-72, Cl. 99-260.000.
- Crist, Michael C., to Dow Chemical Company. The. Liquid sample valve. 3,681,996, 8-8-72, Cl. 73-422.000.
- Crist, Vernon W. Electric fence short detector. 3,648,266, 3-7-72, Cl. 340-254.
- Cristiani, Athos, to AMF Incorporated. Glue dispenser for cigarette making machine. 3,700,141, 10-24-72, Cl. 222-1.000.
- Cristie, Martin, to Stelber Industries Inc. Bicycle clutches and parts associated therewith. 3,650,363, 3-21-72, Cl. 192-64.
- Cristol, Stanley J.; and Lee, George A., to Du Pont de Nemours, E. I., and Company, mesne. Photosynthesis of cyclopropyl compounds from allylic compounds. 3,674,665, 7-4-72, Cl. 204-163.000.
- Cristy, Albert B.; and Kachioff, Yuval, to Eastman Kodak Company. Package for fragile articles. 3,695,424, 10-3-72, Cl. 206-62.00r.
- Criswell, Daryl L.; and Sebold, Clarence V., to Bendix Corporation. The. Portable X-ray generating machine. 3,681,604, 8-1-72, Cl. 250-93.000.
- Critchfield, Frank Edward; Hyre, John Edward; and Stout, Eldon Charles, to Union Carbide Corporation. Copolymers of lactones and alkylene oxides. 3,689,531, 9-5-72, Cl. 260-484.00a.
- Critchley, Anthony Francis Ewart: See—
Whitehead, Cecil Thomas; and Critchley, Anthony Francis Ewart, 3,641,502.
- Critchley, Derek; Dawber, Frank; and Grainger, Kenneth Frederick, to Pilkington Brothers Limited. Sampling of gaseous atmospheres. 3,680,388, 8-1-72, Cl. 73-421.50r.
- Critchley, John Phillip; and Lee, William Alexander, to National Research Development Corporation. Aromatic polyimides containing perfluoroalkylene groups. 3,649,601, 3-14-72, Cl. 260-78.
- Crittendon, Charles E.: See—
Covey, Rupert A.; von Schmeling, Bogislav; and Crittendon, Charles E., 3,690,861.
- Covey, Rupert A.; von Schmeling, Bogislav; and Crittendon, Charles E., 3,707,363.
- Crivellaro, Giovanbattista; and Crestani, Bruno, to Gruppo Lepetit S.p.A. Stable aqueous steroid phosphate solutions. 3,696,195, 10-3-72, Cl. 424-175.000.
- Crivello, James V., to General Electric Company. Nitration of aromatic ring-containing compositions. 3,634,520, 1-11-72, Cl. 260-612.
- Crivello, James V., to General Electric Company. Oxidation of hydroxylated aromatic compositions. 3,678,080, 7-18-72, Cl. 260-396.00r.
- Crivello, James V., to General Electric Company. Oxidation of hydroxylated aromatic compositions. 3,678,081, 7-18-72, Cl. 260-396.00r.
- Crivello, James V., to General Electric Company. Process for making poly(arylenevinylene)s. 3,701,740, 10-31-72, Cl. 260-2.00h.
- Crivii, Mircea: See—
Kelemen, Arpad; and Crivii, Mircea, 3,665,498.
- Crixell, Arthur R., to Monsanto Company. Rotor for intensive mixers. 3,672,644, 6-27-72, Cl. 259-104.000.
- Croasdale, William Herbert; French, Harlan Sumner; Hofschild, Clewell Stephen; and Johnson, Donald Owen, to American Can Company. Method and apparatus for accurately dispensing viscous products into successive containers. 3,648,741, 3-14-72, Cl. 141-9.
- Croce, Joseph; and Bayer, Kurt. Dog leash retriever. 3,693,596, 9-26-72, Cl. 119-109.000.
- Croce, Louis J.; and Bajars, Laimonis, to Petro-Tex Chemical Corporation. Oxidative dehydrogenation catalysts. 3,649,560, 3-14-72, Cl. 252-432.
- Croce, Louis J.; Bajars, Laimonis; and Gabliks, Maigonis, to Petro-Tex Chemical Corporation. Dehydrogenation process. 3,655,805, 4-11-72, Cl. 260-680.
- Croce, Louis J.; and Bajars, Laimonis, to Petro-Tex Chemical Corporation. Sulfur promoted metal ferrite oxidative dehydrogenation catalyst. 3,666,687, 5-30-72, Cl. 252-439.
- Croce, Louis J.; Bajars, Laimonis; and Gabliks, Maigonis, to Petro-Tex Chemical Corporation. Modified oxidative dehydrogenation catalysts. 3,670,042, 6-13-72, Cl. 260-680.00e.
- Croce, Louis J.; and Barone, Bruno, to Petro-Tex Chemical Corporation. Promotion of liquid phase oxidation catalysts. 3,678,105, 7-18-72, Cl. 260-524.
- Croce, Roberto: See—
Ackermann, Jacob; Croce, Roberto; and Reguzzoni, Riccardo, 3,657,331.
- Ackermann, Jacob; Croce, Roberto; and Reguzzoni, Riccardo, 3,670,016.
- Croci, Angelo: See—
Santangelo, Nicola; Battiston, Giancarlo; Pregaglia, Gianfranco; Cavaterra, Enrico; and Croci, Mauro, 3,702,868.
- Croci, Mauro: See—
Pregaglia, Gianfranco; Agamennone, Marco; Santangelo, Nicola; and Croci, Mauro, 3,637,834.
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- Crocker, Richard E.: See—
Lindwall, Richard C.; and Crocker, Richard E., 3,654,107.
- Crocker, Richard E., to Atlantic Richfield Company. Hydrocarbon chlorination and alkylation process. 3,639,494, 2-1-72, Cl. 260-671.
- Crockett, Richard H., to Toscotech Corporation. Pressure seal assembly. 3,706,482, 12-19-72, Cl. 308-1.000.
- Crockford, Joseph R., to Kimberly-Clark Corporation. Tampon for directional placement and applicator therefor. 3,643,661, 2-22-72, Cl. 128-263.
- Croft, Brian Hugh, to Brico Engineering Limited. Speed controls. 3,661,131, 5-9-72, Cl. 123-140.
- Croft Metals, Inc.: See—
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- Crofts, George B. Presence detector. 3,683,176, 8-8-72, Cl. 246-40.000.
- Croissant, Pierre Michel Rene; Armbruster, Jean-Claude; and Chauveau, Andree, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Electrolyte for dry batteries and dry cell batteries using such electrolyte. 3,697,327, 10-10-72, Cl. 136-157.000.
- Croix, Louis S., to Air Reduction Company, Incorporated. Method of preparing of $\text{CF}_3\text{CHClOCHF}_3$. 3,637,477, 1-25-72, Cl. 204-158.
- Croix-Marie, Francis Marie Jean; and Grignon, Robert Georges, to Bertin & Cie. Confining system for ground effect machine. 3,647,018, 3-7-72, Cl. 180-124.
- Croix-Marie, Francis Marie Jean, to Bertin & Cie. Trimming a ground effect machine. 3,698,506, 10-17-72, Cl. 180-118.000.
- Croley, Thomas E.; and Morgan, Richard O., to Corco Inc. Packing, shipping and dispensing container for bulk material. 3,633,794, 1-11-72, Cl. 222-88.
- Croley, Thomas E., to Corco, Inc. Drum-like container of telescoping type set-up from folded flats of sheet material. 3,670,946, 6-20-72, Cl. 229-4.500.
- Croley, Thomas E., to Corco, Inc. Fiberboard flat with joined strengthened corners for setting up into an angular tray and the set-up tray. 3,704,824, 12-5-72, Cl. 229-32.000.
- Croll, Robert D.; and Sinclair, Gerald I., to Micromatic Hone Corporation. Cushion means between abrasive and expanders. 3,645,050, 2-29-72, Cl. 51-338.
- Cromarty, Raymond. Diagnostic device and method. 3,688,763, 9-5-72, Cl. 128-2.00b.

- Crombach, Arno: See—
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- Cromer, George Philip, to General Electric Company. Battery coil construction having a ruffled edge electrode. 3,695,935, 10-3-72, Cl. 136-13.000.
- Cromie, Harry W., to Baxter Laboratories, Inc. Prosthetic heart valve having a pair of support rings of dissimilar material. 3,691,567, 9-19-72, Cl. 3-1.000.
- Cromleigh, Ralph G. Control system for multiple signal channels. 3,652,997, 3-28-72, Cl. 340-172.5.
- Crompton & Knowles Corporation: See—
Klaui, Hans J., 3,653,105.
- Nelson, Alden W., 3,692,447.
- Roberson, James H., 3,663,993.
- Scott, Perry E., 3,680,182.
- Crompton, Geoffrey, to Pressweld Limited. Wheel trims or wheel covers. 3,663,065, 5-16-72, Cl. 301-37.
- Crompton, John L. F.: See—
Brooks, Geoffrey N.; and Crompton, John L. F., 3,702,199.
- Crompton Parkinson Limited: See—
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- Cromwell, Douglas E., to United States of America, Air Force. Jointed door assembly. 3,692,082, 9-19-72, Cl. 160-87.000.
- Cronan, Charles J.: See—
La Belle, Harold E., Jr.; and Cronan, Charles J., 3,687,633.
- Cronenberger, Lucien: See—
Pacheco, Henri; Cronenberger, Lucien; Pillon, Daniel; and Thiollere, Jean, 3,632,618.
- Cronert, Dieter: See—
Rother, Wolfgang; Mordig, Eberhard; Wenzel, Erwin; Cronert, Dieter; Sand, Karl; Kasbohm, Joachim; Henicke, Heinz; Landmann, Helmut; and Stocker, Winfried, 3,701,881.
- Cronig, Alvin, to Itek Corporation. Gel roller for use in photographic processing. 3,667,368, 6-6-72, Cl. 95-89.00a.
- Cronig, Alvin, to Itek Corporation. Gel photo processing apparatus. 3,680,462, 8-1-72, Cl. 95-89.00r.
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- Cronin, Edward W., to Hercules Incorporated. Method of reinforcing foam sheets. 3,649,731, 3-14-72, Cl. 264-47.
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Ciecierski, Walter V.; Reymond, Welles K.; and Cronin, Frederick R., 3,632,882.
- Cronin, John C., to I-T-E Imperial Corporation. Fault current limiter using superconductive element. 3,703,664, 11-21-72, Cl. 317-20.000.
- Cronin, Leo J., to Spectra-Mat, Inc. Thermionic cathode comprising mixture of barium oxide, calcium oxide and lithium oxide. 3,656,020, 4-11-72, Cl. 313-346.
- Cronin, Michael J., to Lockheed Aircraft Corporation. Flat cable electrical wiring system. 3,701,964, 10-31-72, Cl. 339-17.00f.
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- Cronin, Timothy H., to Pfizer Inc. Process for the synthesis of substituted quinazolin-4-ones. 3,696,102, 10-3-72, Cl. 260-251.0qa.
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- Cronk, Harold C., to Allied Chemical Corporation. Process for production of longitudinally oriented thermoplastic film. 3,659,000, 4-25-72, Cl. 156-229.
- Cronkhite, Leonard W., Jr.: See—
Merrill, Edward W., 3,638,639.
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- Merrill, Edward W., 3,677,444.
- Merrill, Edward W., 3,678,756.
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- Cronkhite, Paul W., to Monsanto Company. Retaining trays for semiconductor wafers and the like. 3,661,253, 5-9-72, Cl. 206-65.00r.
- Cronquist, Donald H., to International Business Machines Corporation. Tape transport mechanism. 3,653,568, 4-4-72, Cl. 226-97.
- Cronquist, Donald Harry, to International Business Machines Corporation. Video strip file and system. 3,705,413, 12-5-72, Cl. 179-100.2pm.
- Cronstedt, Val, to Avco Corporation. Damping means for differential gas turbine engine. 3,632,222, 1-4-72, Cl. 415-119.
- Cronstedt, Val, to Avco Corporation. Multilayer ring damped turbomachine rotor assembly. 3,677,662, 7-18-72, Cl. 416-183.000.
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Coin, Rene Georges; Croo, Robert-Justin; and Meuret, Pierre Henri, 3,681,546.
- Crook, Edward J., Jr., to American Hoist & Derrick Company. Hook with gate. 3,653,102, 4-4-72, Cl. 24-241.
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- Crook, James William: See—
Batty, John Woolley; Chadwick, Eric Milton; and Crook, James William, 3,644,535.
- Crook, John B.: See—
Coffelt, Sheldon L.; Allen, Paul R.; and Crook, John B., 3,631,976.
- Crook, Richard D., to Industrial Problem Solves, Inc. Vane ejector tool. 3,673,668, 7-4-72, Cl. 29-254.000.
- Crook, Stanley R. Marine fender. 3,693,572, 9-26-72, Cl. 114-219.000.
- Crooke, Arthur W.; and Hanna, Michael E., Jr., to Sperry Rand Corporation. Digital waveform generator. 3,633,017, 1-4-72, Cl. 235-156.
- Crookes, Le Roy W., to Ronson Corporation. Clutch mechanism. 3,644,990, 2-29-72, Cl. 30-34.1.
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McCarthy, William H.; Fenn, Raymond W., Jr.; and Crooks, Donald D., 3,664,889.
- Crooks, James W., to Allis-Chalmers Manufacturing Company. Auxiliary transmission. 3,673,890, 7-4-72, Cl. 74-681.000.
- Crooks, James W. Reversing transmission. 3,685,371, 8-22-72, Cl. 74-792.000.
- Crooks, Larry L.; and Stump, Walter. Imparting a satin like finish to one side of a fabric. 3,658,570, 4-25-72, Cl. 117-64.
- Crooks, Ronald: See—
Carver, Bryan George; and Crooks, Ronald, 3,664,411.
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- Crooks, Walter, to International Business Machines Corporation. Electrostatic imaging process wherein the developer includes boron nitride. 3,632,337, 1-4-72, Cl. 96-1.4.
- Crookshank, Fred T., to Texaco Inc. Base coatings for launching lubricants. 3,647,693, 3-7-72, Cl. 252-57.
- Crookston, Anthony J. Method of applying shingles. 3,638,388, 2-1-72, Cl. 52-74.
- Crookston, James R. Mobile trash cart. 3,675,940, 7-11-72, Cl. 280-47.260.
- Crookston, Ronald W.: See—
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- Croon, Ingemar Liss-Albin; and Blomqvist, Nils Verner, to Mo och Domsjo Aktiebolag. Process for manufacturing cross-linked paper and viscose pulp and products produced according to the process. 3,700,549, 10-24-72, Cl. 162-157.00c.
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- Cropp, David I. Assembly machine. 3,670,385, 6-20-72, Cl. 29-203.00r.
- Cropp, James P. Snow coaster. 3,632,124, 1-4-72, Cl. 280-12.
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- Crosby, Gerald E.; and Shanefield, Daniel J., to Western Electric Company, Incorporated. Method for bonding a metal pattern to a substrate. 3,679,472, 7-25-72, Cl. 117-212.000.
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Adams, Albert C.; Crosby, John J.; and Graf, George W., 3,685,759.
- Meyfarth, Herbert J.; and Crosby, John J., 3,640,112.
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Jefferson, Leo J.; and Crosby, Lenard J., 3,672,576.
- Crosby, Nobel W.; Walker, Robert C.; and Clarke, Gordon J., to Lual Industries Limited. Cable clamp. 3,670,372, 6-20-72, Cl. 24-125.00n.
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- Crose, Harvey L. Mixer. 3,672,640, 6-27-72, Cl. 259-6.000.
- Croset, Louis Paul, to Forfors A.G. Flexible coupling. 3,638,454, 2-1-72, Cl. 64-14.
- Crosfield Electronics Limited: See—
Astley, Edward Thomas, 3,634,619.
- Dobouny, Mouayed Edouard, 3,647,295.
- Pugsley, Peter C.; and Dobouny, Mouayed Edouard, 3,634,611.

- Croskery, William Fletcher, to Decca Limited. Electrical circuits assemblies. 3,634,159, 1-11-72, Cl. 156-3.
- Crosland Filters Limited: See—
Holyoak, Kenneth, 3,682,320.
- Croslin, Michael E.; and Blackman, Carl R., to Grumman Data Systems Corporation, mesne. Dispensing apparatus and associated electronic control for selecting different modes of operation. 3,665,980, 5-30-72, Cl. 141-183.
- Crosno, Philip M., to Cartridge Television, Inc. Servo system for video recorder. 3,662,099, 5-9-72, Cl. 178-6.6.
- Crosos, Eddie B., to United States of America, Navy. Photoresist processing method for fabricating etched microcircuits. 3,700,445, 10-24-72, Cl. 96-36.200.
- Cross, A. T., Company: See—
Curry, James E., 3,655,062.
- Cross, Alan, to Lumsum Company, The. Fired heater. 3,667,429, 6-6-72, Cl. 122-240.00b.
- Cross, Alexander D., to Syntex Corporation. 3 β -Tetrahydrofuran-2'-yloxy- δ^4 -steroids of the androstane and estrane series. 3,634,409, 1-11-72, Cl. 260-239.55.
- Cross, Alexander D.; and Fried, John H., to Syntex Corporation. Novel hydrophenanthrene esters. 3,636,072, 1-18-72, Cl. 260-468.5.
- Cross, Alexander D., to Syntex Corporation. 17 β -Tetrahydropyranyl ethers of the 19-nor- Δ^4 and $\Delta^{10(19)}$ -androstenes. 3,637,671, 1-25-72, Cl. 260-239.55.
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- Cross, Alexander D., to Syntex Corporation. Tetrahydropyranyl and tetrahydrofuran benzomorphane ethers. 3,647,806, 3-7-72, Cl. 260-293.54.
- Cross Company, The: See—
Pfommer, Fritz; and Bansal, Suresh A., 3,685,630.
Pierce, Guy Donald; and Runft, Rudi K., 3,698,056.
- Cross, David F. W.: See—
Oakes, Vincent; and Cross, David F. W., 3,697,463.
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- Cross, Edward A., to Texaco Inc. Corrosion-inhibiting compositions. 3,647,690, 3-7-72, Cl. 252-33.3.
- Cross Europa-Werk GmbH: See—
Schubert, Paul, 3,700,345.
- Cross, Floyd R. Pickup bed cover. 3,649,072, 3-14-72, Cl. 296-137.
- Cross, Fred H.; and Deradoorian, Bagdasar, to Bendix Corporation, The. Channel multiplier assembly and method of manufacture thereof. 3,678,328, 7-18-72, Cl. 315-12.000.
- Cross, Grosvenor M. Fluid engine. 3,704,080, 11-28-72, Cl. 417-486.000.
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Inhelder, Allen E., 3,694,047.
- Cross, James M., to Mobay Chemical Company. Isomeric mixtures of methylcyclohexylene diisocyanate. 3,644,459, 2-22-72, Cl. 260-453.
- Cross, John H.: See—
Cain, James P.; and Cross, John H., 3,673,611.
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- Cross, Raymond E. Die casting machine. 3,646,990, 3-7-72, Cl. 164-304.
- Cross, Robert A., to Amicon Corporation. Dialysis membrane and its use. 3,691,068, 9-12-72, Cl. 210-22.000.
- Cross, Sidney E. Exhaust gas cleansing system. 3,691,772, 9-19-72, Cl. 60-320.000.
- Cross, Walter G.: See—
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- Cross, Walter Peter. Battery casting of concrete panels. 3,701,508, 10-31-72, Cl. 249-129.000.
- Cross, William Gunn; and Tommasino, Luigi, to Atomic Energy of Canada Limited. Method and apparatus for counting radiation damage tracks in sheet material using a capacitive discharge device. 3,663,815, 5-16-72, Cl. 250-83.3cd.
- Cross, William Telford: See—
Steel, Margaret Lillian; and Cross, William Telford, 3,696,183.
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- Crosser, Orrin K.: See—
Schwanke, Alfred E.; Falke, Wilbert L.; and Crosser, Orrin K., 3,675,310.
- Crosser, Ralph W., Jr.: See—
Peterson, Thomas D.; and Crosser, Ralph W., Jr., 3,682,325.
- Crossland, Francis D., to Ford Motor Company. Adjustable cable assembly. 3,645,150, 2-29-72, Cl. 74-501.
- Crosslen, Louis John, to Mayer, Frank, & Associates, Inc. Theft-proof merchandise display having holding adaptor. 3,661,273, 5-9-72, Cl. 211-169.
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Haydon, Arthur W.; and Crossley, Harry E., 3,665,348.
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Lennert, Andrew E.; Crosswy, Frank L.; and Kalb, Henry T., 3,671,112.
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Bailey, Marion C.; and Croswell, William F., 3,638,224.
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Boffa, Gioacchino; Crotti, Argento; Pieri, Giampiero; Mangini, Angelo; and Tundo, Antonio, 3,678,053.
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- Crotty, Homer E.; Coffey, Charles R.; and Tesdahl, Thomas C., to Chemed Corporation. Powder gelling composition. 3,655,579, 4-11-72, Cl. 252-316.
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- Crotty, Homer Edward, to Grace, W. R., & Co. Foam cleaning additives, composition and methods. 3,639,283, 2-1-72, Cl. 252-98.
- Crouch, Cyril Borthwick: See—
Arnold, Robert Harry; and Crouch, Cyril Borthwick, 3,642,272.
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- Crouch, Ross A., to Phillips Petroleum Company. Stationary mixture and method for mixing material. 3,643,927, 2-22-72, Cl. 259-4.
- Crouch, Thomas J.; and Gynn, George E., to Syncro Corporation. Ignition adapter circuit. 3,704,397, 11-28-72, Cl. 317-157.600.
- Crouch, Willie W., to Phillips Petroleum Company. Carbon black manufacture. 3,645,685, 2-29-72, Cl. 23-209.4.
- Crouch, Willie W.; and Moberly, Charles W., to Phillips Petroleum Company. Recovery of solvent in arylene sulfide polymer production. 3,687,907, 8-29-72, Cl. 260-79.001.
- Croucher, Jack Vivian: See—
Moran, David Martin; and Croucher, Jack Vivian, 3,639,560.
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Cain, William J.; and Crough, Paul E., 3,684,512.
- Crounse, Nathan N., to Sterling Drug Inc. Detergent compositions containing quaternary ammonium derivatives of N,N'-substituted 4,4'-bis (benzimidazol-2-yl)stilbenes. 3,642,642, 2-15-72, Cl. 252-543.
- Crounse, Nathan N., to Sterling Drug Inc. Detergent compositions containing novel optical brightening agents. 3,689,425, 9-5-72, Cl. 252-117.000.
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Katona, Joseph W.; and Crouse, David W., 3,665,915.
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Medley, Richard C., 3,686,495.
- Crouthamel, Carl E.; Coleman, Lester F.; Bernstein, George J.; and Henault, Peter B., to United States of America, Atomic Energy Commission. Identification of failed fuel elements. 3,663,363, 5-16-72, Cl. 176-19.
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Jullien-Davin, Jean, 3,660,642.
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Horrom, Bruce W.; Crovetti, Aldo J.; and Viste, Kenneth L., 3,677,739.
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- Crovetti, Aldo Joseph: See—
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Von Esch, Anne Mary; and Crovetti, Aldo Joseph, 3,660,390.
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- Crow, Herman L.; Lu Conic, Andrew; Maloney, Patrick Martin; and Blum, Gary Raymond, to Kroy Industries, Inc. Roller-band device. 3,643,048, 2-15-72, Cl. 200-153.
- Crow, Morgan L., to Dresser Industries, Inc. Retaining pin and bearing assembly. 3,705,750, 12-12-72, Cl. 308-8.200.
- Crow, Robert Palmer, to RCA Corporation. Sequential AGC system for signal receiver. 3,665,317, 5-23-72, Cl. 325-319.
- Crow, Thomas G.: See—
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- Crow, Thomas G., to International Laser Systems, Inc. High-inversion laser device having an impregnated flashtube jacket, an ultraviolet absorbing filter between the laser rod and the flashtube and a filter with the laser rod. 3,634,779, 1-11-72, Cl. 331-9.5.
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- Crowder, Wyly Kenneth. Instant action brake for vehicles. 3,683,718, 8-15-72, Cl. 74-562.500.
- Crowe, Alan; and Fry, David P. Polyester moulding compositions. 3,652,489, 3-28-72, Cl. 260-40.
- Crowe, Harold W., to Maxon Corporation. Valve actuating mechanism. 3,685,790, 8-22-72, Cl. 251-67.000.
- Crowe, James A.; and Krattenmacher, Willi, to Beckman Instruments, Ltd. Liquid dispensing apparatus. 3,683,977, 8-15-72, Cl. 141-130.000.
- Crowe Manufacturing Company: See—
Durham, Nolan B., 3,675,974.
- Crowe, Robert C.: See—
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Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., 3,682,296.
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Chenoweth, David V.; and Crowe, Talmadge L., 3,648,787.
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Maguire, Eileen; and Kadison, Leon A., 3,660,293.
Maguire, Eileen; and Kadison, Leon A., 3,671,289.
Maguire, Eileen; and Kadison, Leon A., 3,686,016.
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Anderson, Richard N.; and Utrecht, James W., 3,666,052.
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Anderson, John T., 3,659,726.
Duhan, Frederick William, 3,642,120.
Kneusel, Raymond H. P.; and Potts, Vinson S., 3,693,828.
Luviano, John Joseph; and Potts, Vinson S., 3,659,739.
Potts, Vinson S.; and Duham, Frederick W., 3,683,834.
Potts, Vinson S., 3,698,596.
Sullivan, Edward F., 3,660,963.
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Radding, Jason D., 3,674,308.
- Crown Metal Manufacturing Co.: See—
Varon, Albert S.; and Siegal, Burton L., 3,685,662.
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Back, Sangho E.; and Marti, Rueben A., 3,647,618.
Brandon, Richard L., 3,653,895.
Cisney, Merle E., 3,699,172.
Elshout, Anthony L., 3,638,586.
Hartbauer, Ellsworth A.; and Erickson, John R., 3,648,431.
Larson, Louis P.; Repking, Edward F.; and Wagner, Gary L., 3,691,964.
Nussbaum, Henry A.; Rehr, Henry W.; and Tellier, Clair W., Jr., 3,643,939.
Rehr, Henry W., 3,633,733.
Schilling, Paul, 3,669,339.
Shilling, Wilbur L., 3,701,814.
Stanley, Hugh E.; and Tokos, George M., 3,655,503.
Wagner, Gary L., 3,648,959.
Wasyluka, Paul; and Zolman, Clinton E., 3,659,505.
Yang, Christen H. C., 3,641,719.
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Kyle, Thomas A.; and Croy, Charles T., 3,695,768.
- Croyle, Jack V.: See—
Swett, James B.; and Croyle, Jack V., 3,679,088.
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- Cruchant, Serge Alfred Joseph, to Societe de l'Aerotrain. Arrangement for securing walls together. 3,695,383, 10-3-72, Cl. 180-127.000.
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Buehl, Russell C., 3,660,074.
Chandhok, Vijay Kumar, 3,700,435.
Colantuono, William R., 3,698,943.
Dulis, Edward J.; Kasak, August; and Stasko, William, 3,681,058.
Finlay, Walter L.; and Bomberger, Howard B., Jr., 3,645,727.
Kasak, August; Thompson, Vernon R.; and Moll, John H., 3,698,962.
Murphy, Joseph A., 3,645,718.
Thompson, Vernon R.; and Diehl, Robert W., 3,646,177.
- Crucible, Inc., mesne: See—
Holtz, Frederick C., Jr.; and Morrow, Hugh, III, 3,698,055.
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Latham, Burton F., Jr.; and Crull, William B., 3,669,628.
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Schweis, Robert W., 3,685,673.
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Blasbalg, Herman L.; Hayase, Joshua Y.; Crutchfield, Richard C., Jr.; and Najjar, Hann F., 3,700,820.
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Johnson, Ray M., 3,632,945.
Johnson, Ray M., 3,665,142.
Johnson, Ray M., 3,673,370.
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De Haan, James R., 3,705,498.
Hawker, Herbert W., 3,707,079.
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Bamberg, Walter H., 3,673,809.
Latham, Allen, Jr., 3,634,228.
O'Neil, James A., 3,650,118.
- Cryomedics, Inc.: See—
Wallach, Ronald M., 3,696,813.
- Cryotan, Inc.: See—
Trenner, Lew, 3,655,086.
- Crystal, Maurice I.: See—
Cohen, Gerald; and Crystal, Maurice I., 3,678,205.
- Crystal Sewing Machine Ind., Co., Ltd.: See—
Kasai, Sakae, 3,633,527.
- Crystal-X Corporation: See—
Delmar, John Kenneth, 3,650,298.
- Csaba, Gyorgy: See—
Korosi, Jeno; and Csaba, Gyorgy, 3,641,016.
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Jureit, John Calvin; Csakvary, Oscar; and Castillo, Adolfo, 3,685,129.
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Filipek, Stanley J.; and Csapo, Frank, 3,631,648.
Filipek, Stanley J.; and Csapo, Frank, 3,632,088.
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Sawyer, Arthur W.; and Csejka, David A., 3,635,825.
Sawyer, Arthur W.; and Csejka, David A., 3,637,794.
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Stefan, Mihaly; Balazs, Fulop; Hegedus, Zoltan; and Tapolcai, Laszlo, 3,650,851.
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Glasser, George; and Cseri, Joseph, 3,655,409.
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Bret, Georges; and Gires, Francois, 3,662,282.
Brun, Henri, 3,675,067.
Salmon, Jacques, 3,688,311.
Vasseur, Jean-Pierre, 3,700,806.
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Broussaud, Georges; and Wang, Pierre L., 3,633,986.
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Broussaud, George G. T.; and Spitz, Erich, 3,634,693.
Broussaud, Georges; and Tinet, Claude, 3,638,494.
Broussaud, Georges; and Lowenthal, Serge, 3,703,640.
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Beck, Fritz; and Csizi, Gotthard, 3,672,990.
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Young, Edward G., 3,655,444.
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Gauthier, Charles; and Vincent, Jean-Marie, 3,667,886.
Morieras, Gilbert; and de Lanauze, Michel Sere, 3,653,197.
Schorsch, Gilbert, 3,634,378.
- CTP Industries Inc.: See—
Kamins, Seymour; Rosenberg, Norman; and Bentsen, Per, 3,698,289.
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Bender, Stanley O.; and Di Girolama, Joseph, 3,691,506.
Brady, Lynn J., 3,655,440.
Digiromo, Joseph; and Stuckey, Ronald L., 3,662,317.
English, Jack A., 3,670,285.
Hartman, Clinton W., 3,665,365.
Rozema, Arthur L.; Brady, Lynn J.; and Barden, Wayne A., 3,694,786.
Scott, Kelley E., Jr.; Kemper, Daryl M.; Grove, Lloyd E.; and Kiess, Ronald J., 3,656,217.
Zdanys, John, Jr.; Kelver, William L., Jr.; and Weingart, Norman C., 3,643,046.
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Lugiewicz, Robert C., 3,703,064.
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Adams, Lloyd M.; and Hoelscher, Robert L., 3,697,017.
Allport, Davies, 3,650,209.
Isbell, Willard D., 3,643,891.
Isbell, Willard D., 3,691,921.
Isbell, Willard D., 3,658,226.
Neumann, Malcolm A.; and Hunsberger, Arnold, 3,675,378.
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O'Brien, Walter F., 3,677,124.
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Stafford, Richard W.; and Cuckovic, Milenko, 3,640,142.
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Cuir, Jean Pierre; and Cuir, Gerard, 3,695,132.
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Aupoix, Marcel; and Culand, Andre, 3,694,914.
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- Culbertson, Alvin E.: See—
Cull, Duncan E.; and Culbertson, Alvin E., 3,668,661.
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McKillop, William J.; Culbertson, Billy M.; and Impola, Clarence N., 3,640,676.
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Mertzweiler, Joseph K.; and Cull, Neville L., 3,691,101.
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Jeffery, Robert W.; Brown, Robert A., Jr.; and Cullen, Allen F., 3,673,978.
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Newstead, Charles; Cullen, John Lesley; and Zajko, Michal, 3,677,374.
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Elliott, Eugene R.; and Freborg, Lehner C., 3,675,041.
Lyall, Charles E.; and Rak, Stanley F., 3,695,446.
Morrison, Edwin A., 3,701,360.
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Blackwood, James O.; and Cullis, Brian D., 3,697,610.
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Hackett, Homer L.; Cullison, David A.; and Peveto, Edmond A., 3,681,014.
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Slechta, Alfred F.; Culp, Gordon L.; and Dunnahoe, Richard G., 3,669,742.
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Lee, Henry L., Jr.; Culp, Gordon W.; and Ocumpaugh, David E., 3,663,965.
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Hess, Rene, 3,662,120.
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Hankins, Ronald A.; Culver, Donald W.; and Scammon, Harrison B., Jr., 3,702,174.
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- Cummings, Gilbert A., to Peters & Company, Inc. Dispensing apparatus. 3,694,044, 9-26-72, Cl. 312-71.000.
- Cummings, Harold K., to Bunker-Ramo Corporation, The. Construction and method of making electrical connection. 3,688,395, 9-5-72, Cl. 29-605.000.
- Cummings, John G., to Oak Electro/Netics Corporation. Multiple clutches for a TV tuner. 3,688,885, 9-5-72, Cl. 192-95.000.
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- Cummings, Paul Gene, to General Electric Company. Method and apparatus for starting a large inertia dynamoelectric machine. 3,686,550, 8-22-72, Cl. 318-148.000.
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- Cummings-Landau Laundry Machinery Co., Inc.: See—
Hutterer, Martin, 3,641,792.
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Campbell, Robert W.; and Cummins, Donald L., 3,667,025.
- Cummins Engine Company, Inc.: See—
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- Schueler, Carl A., 3,680,468.
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- Cummins, Stewart E. Electron beam controlled bistable ferroelectric light valve. 3,702,215, 11-7-72, Cl. 350-150.000.
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Nichols, Edgar B.; and Cundiff, J. Howard, Jr., 3,688,431.
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Raudat, John L.; Johnson, Lloyd D.; and Cuneo, Anthony L., 3,635,322.
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- Cunliffe, Alwyn: See—
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- Cunning, Alfred C.; and Wolverton, Harry D., to General Motors Corporation. Throttle valve gauge. 3,640,128, 2-8-72, Cl. 73-118.
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- Cunningham, Arthur L., to Sherwin-Williams Company, The. Coating composition containing urethan-modified epoxidized ester and polycarboxylic acid material. 3,699,061, 10-17-72, Cl. 260-18.00p.
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- Cunningham, Cecil R. Deep fat fryer assembly. 3,685,433, 8-22-72, Cl. 99-408.000.
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Drugmand, Lester D.; and Cunningham, Donald M., 3,644,710.
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Owen, Ronald C.; and Cunningham, Ernest R., 3,688,935.
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Raetzsch, Carl W.; Van Hoozer, John F.; and Cunningham, Hugh, 3,650,919.
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Dixon, David Rodney; and Cunningham, John Andrew, 3,637,633.
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Haley, David J.; Cunningham, Robert E.; and Privott, Wilbur J., Jr., 3,677,481.
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Dunn, Stanley A.; Rakestraw, Lawrence F.; and Cunningham, Robert Ernest, 3,658,979.
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Whitmore, Thomas C.; and Cunningham, Robert G., 3,671,806.
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- Cuomo, Jerome J.; Mayadas, Ashok F.; and Rosenberg, Robert, to International Business Machines Corporation. Method for improving adhesion between conductive layers and dielectrics. 3,704,166, 11-28-72, Cl. 117-217.000.
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- Cupp, Richard E.: See—
Corcoran, Vincent J.; Cupp, Richard E.; and Gallagher, James J., 3,689,851.
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Ahn, Yong Kee; Cupples, Barrett L.; and Murphy, Clarence R., 3,686,285.
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Schwoegler, Edward J., 3,650,992.
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Larsen, Richard D.; and Miller, Harold E., 3,635,131.
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Bannister, William W.; Pennace, John R.; and Curby, William A., 3,684,733.
- Cureton, Glen L., to Chattem Drug & Chemical Company. Squeeze bottle with means for locating end of delivery tube. 3,666,182, 5-30-72, Cl. 239-327.
- Curfman, Don Carl, to Borg-Warner Corporation. Graft copolymers of styrene, acrylonitrile and methyl acrylate onto diene polymers and blends thereof with vinyl chloride resins. 3,657,391, 4-18-72, Cl. 260-876.
- Curiel, Raymond F. Coiffeur decorating apparatus. 3,675,005, 7-4-72, Cl. 240-2.000.
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Wood, Dennis E., 3,669,823.
- Curlee Clothing Company: See—
Spencer, William L.; and Juenger, Richard D., 3,687,277.
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- Curran, Edward T.; and Stull, Frank D., to United States of America, Air Force. Dual mode supersonic combustion ramjet engine. 3,667,233, 6-6-72, Cl. 60-270.000.
- Curran, Frank J., to Curran, Frank J., Co. Hanger for deodorant and/or cleaner bars. 3,668,717, 6-13-72, Cl. 4-231.000.
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- Curran, Robert J., to Borg-Warner Corporation. Belt retractor and locking mechanism. 3,692,253, 9-19-72, Cl. 242-107.400.
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Barrett, Robert W.; and Preese, Pat S., 3,673,589.
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Tapert, Thomas J.; and Current, James H., 3,665,798.
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Helmick, James William; Goebel, Brownell Wesley; and Current, John Marvin, 3,682,746.
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Coudrey, Roy M.; and Current, Wayne A., 3,698,087.
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Robins, Morris J.; and Currie, Bruce L., 3,705,147.

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- Currier, Robert G.: See—
Hayes, John T.; and Currier, Robert G., 3,670,504.
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Genson, Samuel Richard; Petersen, Svend Aage; and Currier, Robert Lee, 3,695,523.
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Lawley, Herbert George; Kerr, Robert; and Curry, Duncan Cuthbertson, 3,658,920.
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- Curry, Joseph E., to Texas Instruments, Incorporated. Frequency modulation demodulator. 3,683,288, 8-8-72, Cl. 329-104.000.
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- Curry, Nolan A.: See—
Malloy, John F.; Curry, Nolan A.; and Olton, Dirck J., 3,665,660.
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Blough, Ronald S.; and Curry, Norval, 3,677,229.
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United States of America, National Aeronautics and Space Administration, 3,699,511.
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Pugh, Carl Starnier, Jr.; and Curry, Robert Clay, 3,660,219.
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Stults, Richard L.; and Curry, Robert W., 3,641,266.
- Curry, Robert W., III, to General Electric Company. Ice maker. 3,654,772, 4-11-72, Cl. 62-353.
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- Curry, Walter John. Foldable tow-wheel dolly. 3,659,867, 5-2-72, Cl. 280-36.
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Davidson, Ralph L.; and Arsenault, James H., 3,648,429.
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Curtis, Charles E., 3,651,851.
- Curtis, Daniel L., to National Aeronautics & Space Administration under the provisions of 42 USC. 2457(d). Life support system. 3,635,216, 1-18-72, Cl. 128-142.5.
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- Curtis, Gerald J. Golf ball retriever. 3,669,427, 6-13-72, Cl. 294-19.000.
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Beusman, Curtis C.; and Finger, Eugene P., 3,657,647.
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Greenspan, Gilbert; Curtis, Lawrence R.; Cunningham, Elmer E.; and Tabler, James G., 3,678,277.
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- Curtis 1000 Inc.: See—
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- Corwin, Howard Russell, 3,639,082.
- Davis, Charles S., 3,646,834.
- De Feo, Angelo, 3,656,863.
- Gavrun, Michael I., 3,696,796.
- Gavrun, Michael T., 3,670,383.
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- Moskowitz, Seymour, 3,647,316.
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- Palma, Michael A.; and Minarick, Joseph W., 3,701,401.
- Scheerer, Arthur M., 3,691,759.
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- Clark, John E.; and Cusano, Michael Richard, 3,649,535.
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- Cushman, Edward J.; and Clark, Jasper, to Watch-Tel 24, Inc. Automatic reporting monitoring and control system. 3,647,971, 3-7-72, Cl. 179-2.
- Cushman, Glenn F.; Prasad, Brijeshwari; and Wisleder, Robert W., to Litton Systems, Inc. Correction circuit for converters. 3,641,563, 2-8-72, Cl. 340-347.
- Cushman, Kenneth V.: See—
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- Cushman, Kenneth V., to Delron Fastener; division of Rex Chainbelt Inc. Encapsulated floating and non-floating fasteners. 3,646,982, 3-7-72, Cl. 151-41.7.
- Cushman, Paul G., to General Electric Company. Two-resolver, strapped-down inertial reference system. 3,694,631, 9-26-72, Cl. 235-150.250.
- Cushman, Paul G.; and Clark, Albert A., to General Electric Company. Co-ordinated voltage control for induction servomotors. 3,700,986, 10-24-72, Cl. 318-227.000.
- Cushman, Robert D., to Jeno's, Inc. Machine for forming straws. 3,659,507, 5-2-72, Cl. 93-84.
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Wloszek, Joseph T., 3,699,723.
- Custom Resins, Inc., mesne: See—
Galiano, Francis R.; Thackaberry, Samuel P.; Smith, Wayne E.; and Anderson, Raymond P., 3,681,216.
- Custom Tool & Machine Co., Inc.: See—
Nelson, Leonard; and Wilson, Thomas, 3,676,120.
- Customflex, Inc.: See—
Di Maio, Vincent, 3,641,814.
- Customline Control Products, Inc.: See—
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- Cutler, Stanley: See—
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- Cutler, Stanley, to Mattel, Inc. Organ keyboard switching system. 3,657,460, 4-18-72, Cl. 84-1.01.
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- Becker, Albert H.; Hart, Joseph M.; and Quaal, John A., 3,680,016.
- Brown, Harry W.; Rutchik, Walter L.; and Ryzek, Lawrence J., 3,639,822.
- Cotton, Ronald K.; and Rae, Barney O., 3,677,420.
- Dempsey, George A., Jr.; Koenig, Martin F.; and Issa, Manuel (said Dempsey and said Koenig assors. to), 3,639,676.
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- Elliot, William H.; and Small, Isadore, III, 3,641,397.
- George, Quintin H., 3,636,453.
- Greening, Donald J.; Kintner, Paul M.; and Strand, Sanford M., 3,655,950.
- Greger, George; and Rusenko, James J., 3,657,606.
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- Hults, Harold W., 3,636,286.
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- Ilk, Ronald J., 3,644,793.
- Kintner, Paul M., 3,677,421.

- Leavitt, Minard A.; and Roulund, Poul B., 3,667,845.
 Oetting, Robert F., 3,656,852.
 Piber, Earl T., 3,632,936.
 Pierson, Edward D.; Wright, James C.; de Rozario, Carl C.; and Nemeth, Peter, 3,648,618.
 Quai, John A.; and Spellman, Gordon Bar, 3,693,120.
 Risberg, Robert L.; and Wheeler, Blakeslee G., 3,636,298.
 Ritzow, Gerald R., 3,639,808.
 Ritzow, Gerald R., 3,671,816.
 Robbins, Clyde F., 3,688,159.
 Tressa, Frank J., 3,696,429.
 Turkish, Disney, 3,701,949.
 Williams, Robert C., III, 3,648,004.
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 Winter, Ronald C.; and Knief, Enno A., 3,659,083.
 Cutrona, Louis J.: See—
 Cochran, Gary D.; Cutrona, Louis J.; and Ingalls, Arthur L., 3,687,543.
 Cutrone, Joseph: See—
 Cumella, Charles; and Cutrone, Joseph, 3,667,085.
 Cutter, Gary P.: See—
 Cutler, Gary P.; and Streed, Suzanne M., 3,645,280.
 Cutter, James W. Material cutting apparatus with reciprocating cutting elements. 3,677,117, 7-18-72, Cl. 83-150.
 Cutter, John W. Treadmill jogger. 3,642,279, 2-15-72, Cl. 272-69.
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 Carmen, Raleigh A., 3,690,928.
 Cutter, Robert K., 3,683,922.
 Dabney, William C., 3,670,728.
 Emery, Byron E., 3,664,536.
 Hardie, Waldo R.; and Aaron, Joseph E., 3,651,090.
 McDonald, Harold P., Jr., 3,633,585.
 Stemmer, August L.; Kahn, Paul; and Stubstad, James A., 3,683,422.
 Cutter, Larry I., to LeFebure Corporation. After-hours depository entrance. 3,707,261, 12-26-72, Cl. 232-44.000.
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 Reed, Robert G., 3,694,722.
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 Cutting, Jack R.: See—
 Parkinson, Gerald W.; and Cutting, Jack R., 3,700,995.
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 Paterson, Stephen, 3,677,536.
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 Cvacho, Daniel S., to Reynolds Metals Company. Bearing assembly and machine using same. 3,663,072, 5-16-72, Cl. 308-5.
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 Dawson, Willis S., 3,635,234.
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 Cyba, Henryk A., to Universal Oil Products Company. Stabilization of hydrocarbon oils. 3,637,358, 1-25-72, Cl. 34-72.
 Cyba, Henryk A., to Universal Oil Products Company. Stabilization of organic substance with N,N-disubstituted-aminoalkyl phosphite. 3,637,587, 1-25-72, Cl. 260-45.9.
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 Cyba, Henryk A., to Universal Oil Products Company. Stabilized polyolefin compositions. 3,654,220, 4-4-72, Cl. 260-45.9.
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 Blum, James E., 3,667,701.
 Cybersol, Inc., mesne: See—
 Reynolds, Beverly L., 3,676,553.
 Cybertek, Inc.: See—
 Glenn, William G., 3,692,486.
 Cycle Equipment Company: See—
 Selleck, Robert W.; and Allen, Philip H., 3,672,594.
 Cyclo Manufacturing Company: See—
 Helbig, Jim D., 3,695,203.
 Cyclops Corporation: See—
 Ecer, Gunes M., 3,649,255.
 Kantor, Thomas A.; and Bowen, Ronald K., 3,650,734.
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 Wiart, Albert; and Cynober, Simon A., 3,675,585.
 Cyphell, Ivan Jaroslav. Hydrostatic shaft seal. 3,685,842, 8-22-72, Cl. 277-74.000.
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 Cypro Incorporated: See—
 Pearson, William S., 3,632,249.
 Pearson, William S., 3,700,177.
 Cyprus Metallurgical Processes Corporation: See—
 Kruesi, Paul R., 3,673,061.
 Cyprus Mines Corporation: See—
 Allen, Eugene S.; and Gavrias, Royce S., 3,642,435.
 Cyr, Gilman N.: See—
 Riffkin, Charles; Rifino, Carl B.; and Cyr, Gilman N., 3,703,511.

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 Czakert, Ernst: See—
 Moschopedis, Speros E.; Czakert, Ernst; and Creighton, Stephen M., 3,700,728.
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 Wieschel, John E.; Zanzig, Jerald G.; Czamecki, Robert M.; and Murray, Claire W., 3,682,336.
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 Czaryski, Norbert: See—
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 Czechovsky, Gunther: See—
 Feder, Ernst; Deselaers, Kurt; and Czechovsky, Gunther, 3,669,847.
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 Czerniejewski, Conrad P.: See—
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 Swedenberg, Clyde J.; and Czesla, Manfred J., 3,697,340.
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 Stikkers, Alexander P.; Elzy, Albert E.; and Czyl, Joseph L., 3,692,016.
 Czyzewski, Edward B.: See—
 Hahn, Frederick C.; and Czyzewski, Edward B., 3,681,808.
 D. C. One Limited: See—
 Lynch, Robert Douglas, 3,650,228.
 D. D. I. Communication, Inc.: See—
 Huebner, Werner P. E.; and Long, Robert G., 3,691,304.
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 Bonola, Giuseppe; Da Re, Paolo; and Setnikar, Ivo, 3,637,681.
 Da Silva, Jacinto Rocha. Automatic signalling device for automotive vehicles. 3,646,508, 2-29-72, Cl. 340-33.
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 de Rocha, Manuel Coelho Mendes; and da Silva, Jorge Neves, 3,692,357.
 Da-Ichi Kogyo Seiyaku Co., Ltd.: See—
 Taniuchi, Akira; and Nakano, Takuji, 3,660,318.
 Da-Kor Products, Inc.: See—
 Trexel, Helen E., 3,649,586.
 Da-Lite Screen Company, Inc.: See—
 Poiter, Fred S., 3,696,856.
 Daams, Jasper; and Wellinga, Kobus, to U.S. Philips Corporation. 2-(2',6'-Dichlorophenyl)-1,3-thiazine-4-one. 3,661,900, 5-9-72, Cl. 260-243.
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 Dabbs, Clyde Harwell; and Neil, Hugh G. Surgical buttons. 3,664,345, 5-23-72, Cl. 128-335.
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 Sala, Sergio; Cuneo, Ambrogio; and Dabisch, Wolfgang, 3,664,869.
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 Dabringhausen, Friedhelm: See—
 Korner, Gerhard; Schmitz, Wolfgang; Dabringhausen, Friedhelm; and Gruber, Lothar, 3,674,957.
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 Dabrowski, Jan: See—
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 Dabrush, Charles; and Strauss, Irving, to Chromalloy American Corporation. Chord length gauge. 3,639,992, 2-8-72, Cl. 33-174.
 Dabrush, Charles; and Strauss, Irving, to Chromalloy American Corporation. Bow gauge for turbine engine vanes. 3,678,585, 7-25-72, Cl. 33-174.00p.
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 Cato, Carl P., 3,638,537.
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 Dacco, Aldo, 3,667,941.
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 Dachs, Norman W.: See—
 Geering, Emil J.; and Dachs, Norman W., 3,636,074.
 Dachs, Norman W.; and Gruber, Robert, to Hooker Chemical Corporation. Hydroxyethylthio phenols and process for preparing same. 3,646,220, 2-29-72, Cl. 260-609.
 Dachs, Norman W., to Hooker Chemical Corporation. Dioxabicyclo octane compounds. 3,666,776, 5-30-72, Cl. 260-340.9.
 Dacor Corporation: See—
 MacNeil, Douglas K., 3,633,611.
 daCosta, Harry; and Thornton, Charles G., to Motorola, Inc. Method for profiling bonding needles. 3,631,645, 1-4-72, Cl. 51-326.
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 Dactylog Company, mesne: See—
 Sadowsky, Charles, 3,668,633.
 Dacus, Herbert R.; and Christner, Harry V. Mower guard. 3,665,693, 5-30-72, Cl. 56-320.1.
 Dacus, Herbert R.; and Christner, Harry V. Mower attachment. 3,680,294, 8-1-72, Cl. 56-255.000.

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Jacobson, Charles R.; D'Adamo, Anthony; and Cosgrove, Charlotte E., 3,663,564.
- Dadazynski, Rolf: See—
Nagel, Horst; Thumm, Wilhelm; Garbe, Horst; Dailey, William H.; Goedeke, Egon; and Dadazynski, Rolf, 3,704,088.
- Dadd, Kieth L.: See—
Conrad, Charles F.; and Dadd, Kieth L., 3,664,181.
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- Dadds, Floyd S.; and Gee, James E., to Caterpillar Tractor Company. Pressure-balanced track roller. 3,679,216, 7-25-72, Cl. 277-3.000.
- Dadekian, Zaven A., to Baird Chemical Industries, Inc. Two-phase iodide-catalysed system for preparing tertiary amines. 3,646,147, 2-29-72, Cl. 260-583.
- Dadon, Georges Edouard Louis Leon: See—
Mésnet, Jean Dominique Francois Gerard; Le Guennec, Raymond Louis; and Dadon, Georges Edouard Louis Leon, 3,659,813.
- Dadura, James G.: See—
Day, Frederic F.; Emery, George E.; and Dadura, James G., 3,706,632.
- Daebl, Donald H., to Collins Radio Company. Canned transistor-IC lead bender. 3,693,229, 9-26-72, Cl. 29-203.00b.
- Daenen, Robert, to Dart Industries, Inc. Interconnecting toy block set. 3,651,597, 3-28-72, Cl. 46-25.
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Bouvet, Rene J.; and Daeninckx, Jean Georges, 3,636,207.
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Bayew, Dimitri; Daeuble, Manfred; Kaufmann, Otto; Ludsteck, Dieter; Pfizner, Helmut; and Witsch, Heinz-Guenter, 3,704,086.
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- Daffron, William G., to General Motors Corporation. Multidirectional sensor. 3,693,461, 9-26-72, Cl. 73-514.000.
- Dafler, Gene L.: See—
Rank, William E.; and Dafler, Gene L., 3,662,200.
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- Dafoe, Edwin C.: See—
Leavitt, John N.; Alas, Raigo; and Dafoe, Edwin C., 3,638,502.
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Even-Tov, Ori; and Dagan, Pinchas, 3,634,638.
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- Dage, Richard, to Colgate-Palmolive Company. Method of treating hypertension with morphanthridines. 3,692,906, 9-19-72, Cl. 424-244.000.
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- Daghe, Joseph L.: See—
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- Dagiel, Richard T.; and Cody, David L., to Symons Corporation. Reinforced concrete wall form panel. 3,661,354, 5-9-72, Cl. 249-192.
- Dagle, Glenn C. Electrical alarm system. 3,638,213, 1-25-72, Cl. 340-280.
- Dagley, Horace John: See—
Duke, Anthony John; and Dagley, Horace John, 3,702,022.
- Dagnall, Robert J.: See—
Seiger, Harvey N.; and Dagnall, Robert J., 3,642,600.
- Dagnall, Roy Maurice, to Technicon Corporation. Apparatus for spectroscopic analysis with modulated electrodeless discharge tube. 3,645,629, 2-29-72, Cl. 356-85.
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Barba, Diego; D'Agostino, Candido; and Liuzzo, Giuseppe, 3,684,661.
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- Dague, Harold F. Laminated picture-type phonograph record, and method of making the same. 3,687,769, 8-29-72, Cl. 156-219.000.
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Block, Burton P.; Sprout, Oliver S., Jr.; and Dahl, Gerd H., 3,663,274.
- Dahl, Gustaf Adolf. Tool mounting for slide lathes. 3,648,551, 3-14-72, Cl. 82-36.
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Keur, Robert I.; Miller, Sandra; and Dahl, Henry A., 3,683,396.
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- Dahle, Norman A., to Gulf Research & Development Company. Combating unwanted vegetation with 2-(2',5'-dimethyl-pyrrolidinyl)-5-aryl-1,3,4-thiadiazoles. 3,677,737, 7-18-72, Cl. 71-90.000.
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- Dahlgren, Donald A.: See—
Parcells, Alan; and Dahlgren, Donald A., 3,687,833.
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Alfredsson, Alf Ingvar; and Dahlgren, Lennart Gunnar Oskar, 3,648,588.
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Dahlgren, Harold P., 3,647,525.
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- Dahlin, Erik B., to Measurex Corporation. Basis weight gauge standardizing system. 3,681,595, 8-1-72, Cl. 250-83.00c.
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Rozmus, Walter J., 3,680,212.
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Farnsworth, Robert P.; and Dahlinger, Rodney J., 3,668,435.
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- Dahlman, Frederick A.; and Mrs. Raymond J., to Corning Glass Works. Glass forming fluid flow control means. 3,634,060, 1-11-72, Cl. 65-305.
- Dahlquist, Carl A., to Minnesota Mining and Manufacturing Company. Pressure-sensitive adhesive tape. 3,681,190, 8-1-72, Cl. 206-59.00c.
- Dahlquist, Ernst A.; and Sandberg, Eric A. Pedometer with direction read-out. 3,635,399, 1-18-72, Cl. 235-105.
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Growald, Bert; Dahlquist, John A.; and Marlor, Guy A., 3,674,711.
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Emmett, Robert C., Jr.; and Dahlstrom, Donald A., 3,672,067.
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Davis, Robert W.; and Dahlstrom, Karl L., 3,703,311.
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Nast, Roland; Dahm, Manfred; Ley, Kurt; and Schubart, Rudiger, 3,687,875.
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- Dahms, Harald; Levy, Gabor B.; and Seltzer, David M., to Photovolt Corporation. Method for coulometric Karl Fischer titration. 3,682,783, 8-8-72, Cl. 204-1.00t.
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Anderson, George J.; and Dahms, Ronald H., 3,637,429.
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Anderson, George J.; and Dahms, Wilbraham-Ronald, 3,703,494.
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Matsunaga, Kenji; and Horiuchi, Michio, 3,682,064.
- Shiozawa, Daiichi, 3,664,554.
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Matsumaga, Kenji; Horiuchi, Michio; and Suzuki, Takao, 3,685,413.
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Adachi, Toshio; Funakisko, Sayoko; Furuya, Akio; and Uchida, Masakatsu, 3,700,624.
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Furuya, Akio; Hayashi, Masaaki; Nagami, Kouichi; Uchida, Masakatsu; Nishino, Sakae; Asada, Toshikatsu; Nagao, Yasuo; Matsuda, Hiroyoshi; and Tsuchiya, Harufumi, 3,689,446.
- Hitomi, Teiichi; Kotera, Noboru; and Sakamoto, Hitoshi, 3,682,833.
- Daicel Ltd.: See—
Chujo, Kiyoshi; and Honda, Zenjiro, 3,634,329.
- Chujo, Kiyoshi; Tanaka, Kazunobu; and Ohata, Keiichi, 3,634,366.
- Furukawa, Hideo; Kida, Yoshihiro; and Kuroda, Yosinori, 3,689,375.
- Hagitani, Akira; and Morita, Yoshishige, 3,642,970.
- Hozumi, Yukio; Sonoyama, Yuzo; and Omata, Masaru, 3,682,873.
- Kuwata, Tsutomu; Nagato, Syoichi; and Yamada, Tadashi, 3,637,761.
- Moriyama, Kizyu; and Moriwaki, Takeshi, 3,681,310.
- Takahashi, Hiroshi, 3,673,239.
- Takasu, Itaru; Higuchi, Masaru; and Hotta, Hiroshi, 3,665,015.
- Takasu, Itaru; Sasaki, Takaaki; and Yamamoto, Akira, 3,703,541.
- Tanaka, Atsushi; Kobayashi, Hiroomi; Kudo, Teizo; and Miku-mo, Masatoshi, 3,665,057.
- Yamagishi, Kazuo; Kageyama, Osamu; and Numa, Yoshiaki, 3,654,094.
- Yamagishi, Kazuo; Kageyama, Osamu; and Numa, Yoshiaki, 3,663,574.
- Daido Metal Company Ltd.: See—
Morisaki, Nobukazu, 3,705,450.
- Daido Chemical Engineering Corporation: See—
Morimoto, Yasuo, 3,635,664.
- Daido Chemical Industry Co., Ltd.: See—
Ishii, Yoshio; Sakai, Shizuyoshi; Fukuda, Nobuo; Shimada, Shoji; Kurokawa, Kikuro; and Suzuki, Rokuji, 3,654,156.
- Daido Metal Company Ltd.: See—
Morisaki, Nobukazu, 3,671,089.
- Daido Reare Kabushiki Kaisha: See—
Okada, Sadayuki; and Nomura, Seinosuke, 3,686,845.
- Daido Seiko Kabushiki Kaisha: See—
Adachi, Toshio; Onishi, Masayoshi; and Hayashi, Kiyohide, 3,671,655.
- Adachi, Toshio; Hayashi, Kiyohide; and Okura, Yukio, 3,700,026.
- Ito, Tetsuro; Kato, Goshi; and Kimura, Atsuyoshi, 3,634,074.
- Ito, Tetsuro; and Hiki, Azuma, 3,652,267.
- Ohkubo, Hiroyuki; and Saotome, Shigeo, 3,688,541.
- Takanas, Haruo; Sone, Sadaie; and Eguchi, Isamu, 3,660,583.
- Daido Yoshiten Ltd.: See—
Sakamoto, Junzo; Nozaki, Tadashi; Tsuji, Yoshifumi; and Shimada, Masaharu, 3,672,561.
- Daigle, Donald J.: See—
Beninate, John V.; Daigle, Donald J.; Drake, George L., Jr.; Reeves, Wilson A.; and Donaldson, Darrell J., 3,697,316.
- Daigle, Donald J.; Chance, Leon H.; and Drake, George J., Jr., to United States of America, Agriculture. Process for rendering cellulosic textiles flame retardant. 3,694,256, 9-26-72, Cl. 117-136.000.
- Daigle, Joseph D.: See—
Reilly, Joseph F., Jr.; Daigle, Joseph D.; and Hubenak, Daniel W., Jr., 3,681,123.
- Daigle, Jules O. All-purpose fishing float. 3,667,149, 6-6-72, Cl. 43-43.150.
- Daigler, David Wayne: See—
Harper, William Sheridan; and Daigler, David Wayne, 3,694,154.
- Daigo, Koji: See—
Kikuchi, Katsumi; and Daigo, Koji, 3,689,630.
- Daihatsu Kogyo Co., Ltd.: See—
Kohayakawa, Takashi; Yamamoto, Shinichi; and Morimoto, Michio, 3,698,873.
- Daiichi Seiyaku Company, Limited: See—
Abe, Hiroshi; Shigeta, Yukio; Uchimar, Fumihiko; Okada, Seizaburo; and Kosasayama, Akira, 3,646,031.
- Nabeta, Saburo; Yamada, Yuzo; and Ito, Itsuya, 3,706,779.
- Naito, Takeo; Hirata, Miyoshi; and Isoda, Sumiro, 3,674,833.

Nakazawa, Shozo; and Ikeda, Osamu, 3,705,243.
Oga, Shunichihiro; Asano, Kazuo; and Imada, Katsumi, 3,654,316.
Oshima, Yasuo; Nakazawa, Nobuhiko; Nagasaki, Senkichi; Naito, Takeo; Osada, Yasuaki; Okusa, Naoya; Inuaki, Akira; and Tanaka, Kazuyuki, 3,705,989.
Tsutsumi, Yoshio, 3,692,904.
Yamamura, Yuichi; Yoshinaga, Tetsuo; Tsunoda, Kiyosh; Tsutsumi, Yoshiatsu; and Hoji, Kazuhiko, 3,636,208.
Daichi Yakuin Sangyo Kabushiki Kaisha: See—
Kazuhiko, Asai; and Kazuo, Makabe, 3,689,516.
Makabe, Kazuo, 3,674,823.
Daikin Kogyo Co., Ltd.: See—
Fujita, Hiroshi; and Kuruma, Akinori, 3,653,466.
Izumo, Masanori; and Yoshimura, Tatsushiro, 3,674,762.
Kometani, Yutaka; Tatamoto, Masayoshi; Okuda, Masahiro; Okuno, Chuzo; Sakata, Shinsuke; Sakai, Shoji; and Oka, Masahiko, 3,642,754.
Kometani, Yutaka; Tatamoto, Masayoshi; and Nakamura, Masanori, 3,671,510.
Naito, Daiji; and Ogawa, Shigeyoshi, 3,673,113.
Nakamura, Naoya; and Miyata, Yasuo, 3,674,763.
Ono, Hiroshi; and Higuchi, Toshikazu, 3,647,850.
Wada, Hiroyuki; and Sonoyama, Heikitsu, 3,676,491.
Daikin Kogyo Kabushiki Kaisha: See—
Kometani, Yutaka; and Tatamoto, Masayoshi, 3,654,245.
Osaka, Yonosuke; Watanabe, Kinya; Tamura, Kohji; Sonoyama, Heikitsu; Matsuda, Satoru; Haruhana, Masao; and Matoba, Hideo, 3,689,370.
Daikoku, Takashi: See—
Oda, Teishiro; and Daikoku, Takashi, 3,689,257.
Dailey, Charles R., Jr., to General Tire & Rubber Company, The. Pneumatic tire tread design. 3,674,076, 7-4-72, Cl. 152-209.00r.
Dailey, George W.: See—
Sutherland, Samuel S., Jr.; and Dailey, George W., 3,654,181.
Dailey, Jack R.; and Kuntzleman, Harry C., to International Business Machines Corporation. Functional memory storage cell. 3,706,977, 12-19-72, Cl. 340-173.00r.
Dailey, Jack R.; Kuntzleman, Harry C.; and Sargent, John G., to International Business Machines Corporation. Functional storage array. 3,706,978, 12-19-72, Cl. 340-173.00r.
Dailey, William H.: See—
Nagel, Horst; Thumm, Wilhelm; Garbe, Horst; Dailey, William H.; Goedeke, Egon; and Dadzynski, Rolf, 3,704,088.
Roeder, Gordon A.; and Dailey, William H., 3,689,250.
Daily, William C.; and Welzel, Fred H., to Jones, R. A., & Co., Inc. Bag packer with horizontal transfer. 3,641,735, 2-15-72, Cl. 53-159.
Daily, William C.; and Welzel, Fred H., to Jones, R. A., & Co., Inc. Method and apparatus for feeding flat blanks to make boxes. 3,680,854, 8-1-72, Cl. 271-32.000.
Daimler, Wolfgang; and Lackner, Heinrich, to Vianova Kunstharz Aktiengesellschaft. Process for producing and novel water-soluble synthetic resins. 3,654,203, 4-4-72, Cl. 260-19.
Daimler, Wolfgang; and Klintschar, Gerfried, to Vianova Kunstharz Aktiengesellschaft. Water-soluble coating compositions. 3,658,736, 4-25-72, Cl. 260-19.000.
Daimler, Wolfgang, to Vianova Kunstharz Aktiengesellschaft. Water-soluble coating compositions. 3,658,795, 4-25-72, Cl. 260-839.
Daimler, Wolfgang; and Lackner, Heinrich, to Vianova Kunstharz Aktiengesellschaft. Coating compositions. 3,668,098, 6-6-72, Cl. 204-181.
Daimler Benz Aktiengesellschaft: See—
Hoch, Manfred, 3,685,399.
Daimler-Benz Aktiengesellschaft: See—
Andres, Rudolf; and Moller, Hermann, 3,633,391.
Andres, Rudolf; and Moeller, Hermann, 3,687,215.
Andres, Rudolf; and Huber, Guntram, 3,694,028.
Andres, Rudolf, 3,697,943.
Barenyi, Bela, 3,641,834.
Barenyi, Bela, 3,651,886.
Barenyi, Bela; Sacco, Bruno; and Renner, Hermann, 3,663,034.
Beeskow, Bruno, 3,697,144.
Bernhardt, Heinz Lamm, 3,688,748.
Bonisch, Herbert; Gaiser, Heinz; Huber, Guntram; and Kolbe, Erwin, 3,638,899.
Breitschwerdt, Werner; Andres, Rudolf; and Busch, Gerhard, 3,671,994.
Brugger, Franz; and Paul, Jurgen, 3,674,319.
Buhl, Hans-Wilhelm, 3,662,723.
Burckhardt, Manfred H.; and Schwerdt, Paul, 3,651,901.
Burckhardt, Manfred H.; and Schwerdt, Paul, 3,653,471.
Burckhardt, Manfred H.; Florus, Hans-Jorg; and Grossner, Horst, 3,667,813.
Burckhardt, Manfred H.; Florus, Hans-Jorg; Grossner, Horst; and Krohn, Helmut, 3,672,730.
Conrad, Oswald, 3,652,184.
Conrad, Oswald, 3,694,102.
Edmaier, Franz; Stiefel, Walter; and Merkle, Hans, 3,642,062.
Fiedler, Horst; and Fricker, Ludwig, 3,695,376.
Flach, Rolf, 3,695,700.
Florus, Hans-Jorg; and Grossner, Horst, 3,683,283.

Forster, Hans-Joachim M.; and Katz, Klaus, 3,687,014.
Frankle, Gerhard, 3,656,465.
Frey, Egon; and Kasser, Horst, 3,654,452.
Frey, Egon, 3,688,258.
Fricker, Ludwig; and Schafer, Manfred, 3,641,986.
Gotz, Hans, 3,670,640.
Grieb, Hubert J., 3,659,417.
Grieb, Hubert Josef, 3,651,645.
Hardenberg, Horst, 3,693,606.
Hase, Helmut; and Siwik, Egbert, 3,659,869.
Hase, Helmut, 3,669,221.
Heim, Gerhard, 3,638,994.
Helmer, Josef, 3,706,364.
Hoffmann, Heinrich, 3,656,770.
Hornig, Rudolf; and Sailer, Siegfried, 3,693,726.
Hortnagl, Franz, 3,700,061.
Krestan, Rudolf; and Kennigott, Kurt, 3,688,871.
Kruse, Werner, 3,683,219.
Lamm, Heinz, 3,638,760.
Lamm, Heinz, 3,667,877.
Lamm, Heinz, 3,685,922.
Lamm, Heinz, 3,703,163.
Lenz, Siegfried, 3,687,120.
Mirjanic, Milorad, 3,672,263.
Mirjanic, Milorad, 3,694,194.
Muller-Berner, Alfred Hermann, 3,680,370.
Muller-Berner, Alfred Hermann, 3,682,152.
Naumann, Fritz A., 3,690,193.
Naumann, Willy R.; Albrecht, Wilhelm; and Wieland, Egon, 3,680,405.
Perrin, Gunter; and Pabinger, Gerhard, 3,688,884.
Porth, Dieter; and Rinnergeschwentner, Hans, 3,642,316.
Reisacher, Josef, 3,646,919.
Reisacher, Josef; Noltemeyer, Friedrich; and Dziggel, Reiner, 3,674,000.
Reisacher, Josef; and Schmid, Albrecht, 3,691,914.
Rossler, Heinrich; and Hentschel, Manfred, 3,641,840.
Rossler, Heinrich Georgi F.; Baumann, Heinrich; and Zeidler, Falk, 3,638,701.
Schafer, Lutz, 3,688,523.
Scherenberg, Hans O., 3,653,368.
Scherenberg, Hans O., 3,672,798.
Scherenberg, Hans O., 3,680,538.
Schiesterl, Gerhard; and Wulf, Helmut, 3,703,313.
Schiesterl, Gerhard; and Eibl, Josef, 3,703,704.
Schlor, Egon; and Duchrau, Herbert, 3,687,159.
Senft, Hervert; and Rinnergeschwentner, Hans, 3,670,592.
Sigmund, Gerhard, 3,671,997.
Stark, Karl, 3,656,259.
Steiner, Adolf; and Rinnergeschwentner, Hans, 3,649,066.
Steiner, Adolf; and Rinnergeschwentner, Hans, 3,667,565.
Uhlenhaut, Rudolf; Wieland, Egon; and Dittrich, Uwe-Bernd, 3,707,095.
Van Winsen, Friedrich H., 3,694,000.
Van Winsen, Friedrich H.; and Daur, Hans-Karl, 3,703,761.
Weber, Ludwig, 3,635,527.
Weymann, Werner, 3,704,697.
Wilfert, Karl, 3,633,934.
Wilfert, Karl; and Gotz, Hans, 3,635,517.
Wilfert, Karl; and Barenyi, Bela, 3,656,367.
Wilfert, Karl; and Barenyi, Bela, 3,659,476.
Wilfert, Karl, 3,666,316.
Wilfert, Karl; and Andres, Rudolf, 3,683,717.
Wilfert, Karl; and Barenyi, Bela, 3,697,097.
Winkler, Hermann, 3,658,046.
Dainichi Nippon Cables Ltd.: See—
Fujita, Hideo; Ishitobi, Masami; Suga, Hiroyoshi; Ishiwari, Keishiro; Yotsui, Yoshikazu; Yamashita, Tadao; Edamitsu, Masayuki; and Moriaki, Shokichi, 3,701,720.
Dainichiseika Color & Chemicals Mfg., Co., Ltd.: See—
Terai, Shiro; Suzuki, Toshio; Hasegawa, Yoshihumi; Horiguchi, Shojiro; Nakamura, Michie; Kimata, Shizuo; and Suzuki, Tadanobu, 3,671,476.
Dainippon Ink and Chemicals, Incorporated: See—
Azami, Kyoichiro; Ohotani, Hiroshi; and Fukutomi, Hiroshi, 3,694,383.
Honda, Kiyoshi; Miyazaki, Mitsumasa; Nomura, Shozaburo; Akiyama, Kazuo; and Hirose, Kazutoyo, 3,694,415.
Maeda, Hiroshi; Hasegawa, Koichi; Sekiguchi, Hisashi; and Hayakawa, Fumio, 3,691,228.
Sekiguchi, Takashi; Tokiura, Shohei; Ogihara, Sadahide; Yamamoto, Rokuro; and Ikeuchi, Akihiro, 3,638,824.
Shirota, Hiroharu; Yonemoto, Kunio; Masuda, Tuiyoshi; Ito, Takayuki; and Nagaki, Ryuzo, 3,652,747.
Dainippon Ink Institute of Chemical Research, The: See—
Honda, Kiyoshi; Miyazaki, Mitsumasa; Nomura, Shozaburo; Akiyama, Kazuo; and Hirose, Kazutoyo, 3,694,415.
Dainippon Pharmaceutical Co., Ltd.: See—
Kaneko, Hidehiko; Yamamoto, Yuzuru; and Kon, Tatsuya, 3,681,408.

Kaneko, Hidehiko; Aritomi, Jiro; and Nakamura, Keiji, 3,700,680.
Minami, Shinsaku; Matsumoto, Jun-Ichi; Shimizu, Masanao; and Takase, Yoshiyuki, 3,666,754.
Minami, Shinsaku; Shono, Toshihiro; Shmizu, Masanao; and Takase, Yoshiyuki, 3,673,184.
Minami, Shinsaku; Matsumoto, Jun-Ichi; Shimizu, Masanao; and Takase, Yoshiyuki, 3,701,773.
Nishimura, Haruki; and Nagai, Yasutaka, 3,635,985.
Shoji, Osamu; Hironaka, Jouji; and Kotani, Hirotada, 3,647,626.
Suzuki, Jiro, 3,683,926.
Umemoto, Susumu; Nagai, Yasutaka; and Nakamura, Keiji, 3,637,704.
Umemoto, Susumu; Maki, Akio; and Nikamura, Keiji, 3,654,270.
Yamabe, Shigeru; Shimizu, Masanao; and Yamamoto, Tadatsugu, 3,697,514.
Dainippon Screen Manufacturing Company, Limited: See—
Kubo, Nobuzo; and Ito, Takeshi, 3,679,500.
Daino, Peter R.: See—
Peil, William; Daino, Peter R.; and Sauter, Lon J., 3,705,367.
Daira, Isamu: See—
Utsumi, Isamu; Watanabe, Toshiro; Kohno, Keiichi; Daira, Isamu; and Otsubo, Akira, 3,644,385.
Dairy Equipment Company: See—
Peters, Norman J., 3,696,950.
Daito Boshoku Kabushiki Kaisha; a/k/a Daito Woolemspinning & Weaving Co., Ltd.: See—
Furuta, Taizo; Otsuka, Yuichi; and Mizukawa, Kiyoshi, 3,642,137.
Daito Mfg. Co., Ltd.: See—
Mochida, Hisashi, 3,643,582.
Mochida, Hisashi, 3,672,386.
Sadamori, Noboru, 3,633,600.
Daito Tsushinki Kabushiki Kaisha: See—
Kitagawa, Tadashi; Yaguchi, Shoichiro; Yamanobe, Katsuyuki; and Kawamata, Masao, 3,696,316.
Daitoku, Kouichi; and Kimura, Shuji, to Nippon Kogaku K.K. Camera capable of combination with a power-driven housing for film-rewinding. 3,643,576, 2-22-72, Cl. 95-31.
Daitoku, Kouichi; and Kimura, Shuji, to Nippon Kogaku K.K. Light-intercepting means in a camera capable of combination with power driven film rewinding means. 3,679,148, 7-25-72, Cl. 242-71.600.
Daiwa Boseki Kabushiki Kaisha: See—
Hori, Kiyokazu; Kose, Tatsuo; and Ochi, Kazuo, 3,695,017.
Kawamura, Shuzo, 3,684,207.
Morikawa, Takashi; Higake, Sotomatsu; Sumi, Mitsugu; Urifu, Tohoru; and Yamamoto, Manabu, 3,696,605.
Daiwa Boseki Kabushiki Kaisha: See—
Matsui, Isamu; Nagasawa, Isao; Horiuchi, Tatsuo; Uchida, Hiroshi; and Uehara, Masao, 3,687,382.
Dake Corporation: See—
Swanson, Roger L., 3,696,412.
Dake, James O., Jr.: See—
Kaufman, Martin H.; O'Drobinak, John D.; and Dake, James O., Jr., 3,640,070.
Dakin, Hayes O., Jr.: See—
Reese, Frank L.; and Dakin, Hayes O., Jr., 3,665,133.
Dakin, John; and Campbell, John George, to T.M.M. (Research) Limited. Feeding of fibrous materials to textile cards. 3,667,087, 6-6-72, Cl. 19-105.000.
Dakli, Ibrahim; Demicheli, Angelo; and Gregori, Giuseppe, to Montecatini Edison S.p.A. Aqueous formaldehyde solutions stabilized by synergic mixtures of aminotriazine. 3,658,913, 4-25-72, Cl. 260-606.
Dal Monte, Giorgio, to Societa Italiana Telecomunicazioni Siemens S.p.A. Centralized identification and debiting system for telephone subscribers. 3,657,482, 4-18-72, Cl. 179-7.
Dal Pont, Jean-Pierre: See—
Behar, Meyer; Dal Pont, Jean-Pierre; and Montet, Jerome, 3,662,521.
Dalal, Rustom H.: See—
Thomas, Richard E.; Florence, Robert T.; Dalal, Rustom H.; and Scheuer, Raymond I., 3,632,364.
Dalan Company: See—
Hughes, David A.; and Hughes, Alan T., 3,690,656.
Dalard, Francis Jean; Augustinsky, Jan Witold; and Sohm, Jean-Claude, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Silver oxide-magnesium cell or electrochemical generator. 3,679,488, 7-25-72, Cl. 136-100.00m.
D'Alba, Anthony R., to Trico Products Corporation. Fluid motor. 3,645,168, 2-29-71, Cl. 91-189.
Dalbey, Theodore E., to Pennsylvania Industrial Chemical Corporation. Process for preparing 2-hydroxy-4-alkoxybenzophenone. 3,697,599, 10-10-72, Cl. 260-591.000.
Dalbins, Yan Yanovich: See—
Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich;

Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leenex, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreievich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzen, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.
Dale, Brian, to GTE Sylvania Incorporated. Semiconductor switching device. 3,697,830, 10-10-72, Cl. 317-235.
Dale, Edwin L., to Beunit Corporation. Knitted textile materials comprising polyester fiber and having outstanding soil release and durable press properties and a process for the preparation thereof. 3,702,231, 11-7-72, Cl. 8-115.600.
Dale Electronics, Inc.: See—
Cannon, Richard L.; and Smith, Leonard R. D., 3,634,877.
Cannon, Richard L.; and Smith, Leonard, R. D., 3,685,383.
Mader, Lawrence, 3,646,375.
Scheel, Louis W., 3,639,878.
Dale, Ernest A.: See—
Thomas, Martha J. B.; Dale, Ernest A.; and Butler, Keith H., 3,654,173.
Dale, Ernest A.; and Thomas, Martha J. B., to GTE Sylvania Incorporated. Process for making improved phosphate phosphors from brushite. 3,654,174, 4-4-72, Cl. 252-301.4.
Dale, Ernest A.; and Thomas, Martha J. B., to Sylvania Electric Products, Inc. Electrical translating device containing spheroidal phosphors. 3,668,455, 6-6-72, Cl. 313-109.
Dale, Ernest A.; and Thomas, Martha J. B., to Sylvania Electric Products, Inc. Atomizing, spray-drying and flame process for manufacturing phosphors. 3,676,358, 7-11-72, Cl. 252-301.40p.
Dale, Ernest Brock, Jr. Evaporation of multicomponent alloys. 3,634,647, 1-11-72, Cl. 219-121.
Dale, James, Corporation: See—
Guckel, Gerhart A., 3,687,261.
Dale, James W.: See—
Beltramini, Henry P.; and Dale, James W., 3,702,793.
Dale, James W., to Monsanto Research Corporation. Fluorine compound. 3,663,183, 5-16-72, Cl. 23-367.
Dale, John, Limited: See—
Brownbill, Thomas Duncan, 3,690,141.
Dale, Louis D.: See—
Nelson, Henry O.; King, Howard F.; and Dale, Louis D., 3,632,067.
Dalebout, Melvin W. Ski boot. 3,701,208, 10-31-72, Cl. 36-2.5al.
D'Alelio, Gaetano F. Acrylonitrile polymerization in the presence of sulfuric acid followed by a neutralization step. 3,634,370, 1-11-72, Cl. 260-85.5.
D'Alelio, Gaetano F., 10% to Monsceili, Walter J. Triamino-s-triazines. 3,637,685, 1-25-72, Cl. 260-249.6.
D'Alelio, Gaetano F. Unsaturated ester of halogenated alkenes. 3,637,813, 1-25-72, Cl. 260-486.
D'Alelio, Gaetano F., to Ciba-Geigy Corporation. Copolymers of propargyl methacrylate and acrylate. 3,639,348, 2-1-72, Cl. 260-67.
D'Alelio, Gaetano F. Chelating compositions. 3,645,997, 2-29-72, Cl. 260-88.3.
D'Alelio, Gaetano F. Crosslinking polymers. 3,654,240, 4-4-72, Cl. 260-78.5.
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D'Alelio, Gaetano F. Acrylic esters of halogenated acetylenic diols. 3,664,992, 5-23-72, Cl. 260-89.500.
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D'Alelio, Gaetano F., to PPG Industries, Inc. Polymerizable cross-linkable esters of polyepoxy compounds. 3,676,398, 7-11-72, Cl. 260-47.0ep.
D'Alelio, Gaetano F. Synthesis of polybenzothiazolines and polybenzothiazoles by reacting a dialdehyde with an aromatic bismercaptoamine. 3,681,297, 8-1-72, Cl. 260-72.500.
D'Alelio, Gaetano F., to United States of America, Air Force. Preparation of polyoxazolidones. 3,694,406, 9-26-72, Cl. 260-47.0ep.
D'Alelio, Gaetano F., to Monacelli, Walter J. Chelating compositions. 3,700,671, 10-24-72, Cl. 260-248.000.
Dalen, Arne: See—
Bollettieri, Jerome; and Dalen, Arne, 3,655,211.
Dalen, June: See—
Bollettieri, Jerome; and Dalen, Arne, 3,655,211.
Dalen, Merle L., to Signetics Corporation. Photographic roll film processing apparatus. 3,688,678, 9-5-72, Cl. 95-96.000.
Dalenberg, W. Robert: See—
Hamouz, George J.; Dalenberg, W. Robert; and Zurek, James W., 3,672,137.
D'Alessandro, Franklin M., to Bunker-Ramo Corporation, The. Hermetically sealed connector. 3,685,005, 8-15-72, Cl. 339-136.000.

- D'Alessandro, John R. Multiport feedback and pole-zero control. 3,643,184, 2-15-72, Cl. 333-80.
- D'Alessio, Joseph R., to Federal Paper Board Company, Inc. Display carton. 3,680,687, 8-1-72, Cl. 206-45.140.
- Daley, Thomas J., to Westinghouse Electric Corporation. Method of making a random wound encapsulated coil. 3,662,460, 5-16-72, Cl. 29-605.
- Daley, Thomas J., to Westinghouse Electric Corporation. Wind direction recording system. 3,665,759, 5-30-72, Cl. 73-188.
- Daley, Thomas Joseph: *See—*
Ackermann, Walter Thomas; and Daley, Thomas Joseph, 3,703,148.
- Dalferes, Anthony Wilmet. Binder for office folder. 3,635,568, 1-18-72, Cl. 402-17.
- Dalgaard, Svend B. Method and system to monitor pH values in water. 3,681,025, 8-1-72, Cl. 23-230.00r.
- Dalgarn, John W.: *See—*
Witterholt, Vincent G.; and Dalgarn, John W., 3,663,525.
- Dalglish, James McNair, to Golden Wonder Limited. Cooking of food morsels. 3,649,306, 3-14-72, Cl. 99-246.
- Dalglish, John D., Jr.; and Kisner, Clinton E. Building construction. 3,690,077, 9-12-72, Cl. 52-79.000.
- Dali, Carmelo P.; and Szempruch, Walter T., to Baxter Laboratories, Inc. Nasal cannula. 3,682,171, 8-8-72, Cl. 128-206.000.
- Dalibor, Horst; and Katsibas, Themistoklis, to Reichbold-Albert-Chemie Aktiengesellschaft. Method for manufacturing surface coatings and films and surface coatings and films for carrying out this method. 3,666,833, 5-30-72, Cl. 260-856.
- Dalic S.A.: *See—*
Icxi, Jean J. G.; and Tilche, Philippe J., 3,637,468.
Icxi, Jean J. G., 3,649,479.
- Dalik, Herbert A., to Flintkote Company, The. Pipe belling machine. 3,672,804, 6-27-72, Cl. 425-328.000.
- Dalke, Charles Arthur; and Child, Cedric L., to General Electric Company. Nuclear reactor upper core grid. 3,660,233, 5-2-72, Cl. 176-87.
- Dalke, George W., to Interpretation Systems Incorporated. Field plotter. 3,694,743, 9-26-72, Cl. 324-72.000.
- Dalke, James A., to Metro Data Corporation. DC voltage regulator and impedance converter. 3,705,342, 12-5-72, Cl. 323-22.00t.
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Greco, Alberto; Carbonaro, Antonio; and Dall'Asta, Gino, 3,661,869.
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Pedrazzoli, Andrea; and Dall'Asta, Leone, 3,663,617.
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Moulin, Jean; Doucerain, Jacques; and Dallet, Bernard, 3,632,948.
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Brotz, Walter; and Dallmann, Bruno, 3,640,828.
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Pink, Peter; and Dallner, Rupert, 3,662,896.
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Willis, Grant N., 3,662,301.
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Oberley, William J.; and Daly, John E., 3,665,667.
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Wiese, Joseph A., Jr.; and Dalzell, Rex J., 3,663,258.
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Venuti, Richard Joseph; Golner, Jerold Julius; and D'Amato, Anthony Salvatore, 3,670,952.
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Thompson, James E.; and D'Amato, Gerald J., 3,699,568.
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Schultz, John R.; Heidacher, John W.; Sharer, John M.; Adams, James S.; and Damico, Frank M., 3,660,591.
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Bollinger, Frederic G.; and D'Amico, John Joseph, 3,687,653.
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Simonelli, Le Roy S.; Randolph, Leonard B.; and Damico, Sam, 3,651,965.
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Bauzhis, Albertas Vatslovovich; Damienaitis, Petras-Kestutis Petrovich; Zhlabis, Sauljus Bonoventuro; and Shilenas, Petras-Alvidas Petro, 3,689,860.
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Auletta, Lucien V.; Cornish, Blair E.; Damm, Eugene P., Jr.; Faigenbaum, Mark A.; and Simon, Andrew M., 3,660,263.
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Ahler, Wilhelm; Bungardt, Walter; Brusdeylins, Andreas; Damm, Paul; and Herget, Camillo, 3,649,390.
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- Dammar, Raymon H., to Possis Machine Corporation. Lead forming method. 3,636,621, 1-25-72, Cl. 29-596.
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- Dammermann, Rolf: *See—*
Strache, Hanns; and Dammermann, Rolf, 3,655,794.
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Badessa, Rosario S., 3,686,994.
- Crisafi, Robert C., 3,684,128.
- Ferrari, Andres, 3,640,388.
- Ferrari, Andres, 3,690,833.
- Hurtig, Carl R.; Ferrari, Andres; and Khoury, Amin J., 3,640,267.
- Hurtig, Carl R., 3,640,393.
- Munn, David E.; and Maddestra, Robert, 3,678,310.
- Perry, Wesley G., 3,659,608.
- Scanlon, Michael J., 3,687,359.
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Harris, Stephen O.; and Damon, John F., 3,688,530.
- Damon, Paul H.: *See—*
Cichoski, Sylvester A.; Damon, Paul H.; Golembeski, Ronald J.; and Lawler, William P., 3,687,778.
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D'Amore, Michael J., 3,683,356.
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Gilch, Heinrich; Damsky, Walter; and Reinking, Klaus, 3,682,847.
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Etters, James N., 3,645,665.
- Spangler, Myrtle Joanne, 3,671,307.
- Wright, Ernest Linwood, III, 3,639,096.
- Dan-Fire-Energy ved Mita Gudmand-Hoyer: *See—*
Hoyer-Gudmand, Mita Maria, 3,683,215.
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Lorton, Ralph K., 3,631,917.
- Reynolds, James T., 3,631,671.
- Swoveland, Jackie E.; Irvin, Lothair; and Charles, James A., 3,699,288.
- Wilson, Denney R., 3,669,476.

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Huber, William W.; and Dana, Richard L., 3,671,618.
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- Dancer, Stuart Neil: *See—*
Hall, Antony Harold Patrick; and Dancer, Stuart Neil, 3,705,152.
- Danchenko, Mikhail Evgenievich: *See—*
Esiban, Eduard Migrantovich; and Danchenko, Mikhail Evgenievich, 3,676,639.
- Dancsi, Lajos: *See—*
Kisfaludy, Lajos; Pathy, Agnes, nee Lukats; Dancsi, Lajos; Domok, Livia, nee Kis-Vigh; Karpati, Egon; and Szporny, Laszlo, 3,642,805.
- Dancy, Julian H.: *See—*
Flournoy, Norman E.; Dancy, Julian H.; and Trippet, Raymond, 3,656,692.
- Flournoy, Norman E.; Morrison, John A.; Dancy, Julian H.; and Trippet, Raymond, 3,664,804.
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Stapfer, Christian H.; and D'Andrea, Richard W., 3,649,663.
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- Dane, Ernest Blaney, Jr. Scraper bucket apparatus for deep sea mining systems. 3,675,348, 7-11-72, Cl. 37-69.000.
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Alessi, Samuel P.; and Daneck, David A., 3,683,900.
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Dyre, Mogens, 3,654,432.
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- Gramkow, Asger; and Hyldal, Jorgen, 3,696,281.
- Hansen, Gunnar Lyshoj; and Petersen, Jorgen Hartvig, 3,692,038.
- Holm, Svend Age, 3,705,619.
- Huelle, Zbigniew R., 3,680,326.
- Iversen, Kristian, 3,704,404.
- Jensen, Arne, 3,670,224.
- Jensen, Arne; and Petersen, Tom Kastrup, 3,691,439.
- Jensen, Arne, 3,700,989.
- Jespersen, Hans Jorgen, 3,695,577.
- John, Claus, 3,656,081.
- Jorgensen, Aage Hojgaard, 3,706,088.
- Jorgensen, Jorgen; Iversen, Nis B.; and Andresen, Jens N., 3,636,287.
- Knudsen, Jorgen Dahlman; Romer, Bendt Wegge; and Valbjorn, Knud Vagn, 3,664,769.
- Larsen, Preben, 3,645,117.
- Leffers, Hans Ulrik, 3,653,248.
- Leffers, Hans Ulrik; Romer, Bendt Wegge; and Valbjorn, Knud Vagn, 3,664,461.
- Lehmann, Rolf-Konrad, 3,633,869.
- Nielsen, Peter V., 3,664,193.
- Nielsen, Soren, 3,653,454.
- Ohrberg, Carl V., 3,680,987.
- Pedersen, Kristian Stausholm, 3,664,886.
- Petersen, Alex, 3,690,792.
- Petersen, Jorgen Hartvig; and Hansen, Gunnar Lyshoj, 3,635,604.
- Petersen, Jorgen Hartvig, 3,655,205.
- Petersen, Jorgen Hartvig; and Sturlason, Leif Viggo, 3,669,419.
- Petersen, Jorgen Hartvig; and Madsen, Ingvar Mosby, 3,685,927.
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- Petersen, Tom Kastrup; and Henriksen, Neils Juul, 3,701,939.
- Stannow, Jorgen Christian, 3,664,581.
- Thorsoe, Flemming; and Jensen, Arne, 3,646,365.
- Waldorff, Jorgen Frederik, 3,668,947.
- Weidner, Eric, 3,636,992.
- Weidner, Eric, 3,653,414.
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Magelli, Orville Leonard; and D'Angelo, Antonio Joseph, 3,706,818.
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Dangles, Thomas C.; and Dangles, Elsie R. M., 3,700,095.
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Dienenthal, Herbert; and Zimmermann, Theodor, 3,667,748.
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- Schneider, Werner, 3,643,508.
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Pelz, Willibald; Kabitzke, Karlheinz; Freytag, Karl-Heinz; Vetter, Hans; Danhauser, Justus; and Bockly, Erich, 3,684,513.
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Sokolov, Anatoly Danilovich; Danilkin, Nikolai Nikiforovich; and Kanavets, Ivan Fedorovich, 3,686,933.
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Skulsky, Jury Valentinovich; Boretsky, Vasily Grigorievich; Sakharov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievich; Schukin, Pavel Ivanovich; Daniluk, Ivan Petrovich; Zelensky, Vladimir Filippovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgarnovich; and Sokirko, Vasily Andreevich, 3,657,962.
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Dovgalev, Stepan Ilich; Ermolenko, Igor Nikolaevich; Buglov, Evgeny Danilovich; Danilov, Ivan Petrovich; and Longin, Mikail Lvovich, 3,703,438.
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Gibbs, James C.; and Daninhersch, Harry, 3,677,165.
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Horton, John P.; and Sulser, Troy S., 3,678,530.
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- Danly, Donald E.; and Patterson, Andrew M., Jr., to Monsanto Company. Process of removing hydrolyzed polyacrylonitrile from an aqueous mixture. 3,660,258, 5-2-72, Cl. 204-73.
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- Dann, Bert H., to International Video Corporation. High speed PIM demodulator. 3,681,702, 8-1-72, Cl. 329-102.000.
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- Danno, Tamotsu: See—Miyoshi, Munetugu; Niwa, Kouichi; Ohnishi, Takanobu; Danno, Tamotsu; and Higaki, Koh, 3,652,531.
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- Danti, Bernard R.; Brefka, Paul E.; and Merrill, Wayne S., to Millipore Corporation. Viewer for transparent slides. 3,652,169, 3-28-72, Cl. 356-244.
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- Darby, Lee H.: See—Eberle, Arthur C.; and Darby, Lee H., 3,671,815.

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- Coulombe, Raymond Francis, 3,673,984.
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- Daenen, Robert, 3,651,597.
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- Hattori, Kiyoshi; and Richardson, Elby Leon, 3,639,331.
- Leibson, Irving, 3,702,352.
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- Stuart, James L., 3,694,131.
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- Tyson, Henry K.; and Butler, Albert Q., 3,670,766.
- Vyncke, Johan, 3,636,806.
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- Gysling, Walter, 3,666,204.
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- Brawley, Harry E., Jr., 3,668,696.
- Chao, Stanley K., 3,688,307.
- Data General Corporation, *mesne: See—*
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- Germain, Lloyd M., 3,668,643.
- Gross, William J., 3,658,193.
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- Faroudja, Yves C., 3,674,920.
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- Helms, Clifford J.; and Papadopoulos, Stelios B., 3,643,595.
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- Shanrock, Raymond L., 3,703,626.
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- Johnson, Raymond E.; and Levine, Abraham, 3,633,101.
- Data Time, Inc.: *See—*
- Stalp, Bernard J., 3,678,496.
- Data-Link Corporation: *See—*
- Becking, Paul E., 3,661,338.
- Geib, Randall R., 3,653,130.
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- Morchand, Charles A., 3,637,926.
- Morchand, Charles A.; and Dudley, Don J., 3,637,940.
- Datadyne Corporation: *See—*
- Cavella, James J., 3,670,981.
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- Weidanz, Herbert, 3,645,393.
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- Harmon, Samuel T., Jr.; and Monroe, Kenneth E., 3,646,448.
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- Gerlach, Richard K.; and Miller, Meryl E., 3,663,779.
- Datapac, Incorporated: *See—*
- Furst, Jozef, 3,644,909.
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- Higginbotham, Roy F.; Blonder, Fred D.; and Snyder, David E., 3,639,730.
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- Rozenson, Eliokim Zelikovich; and Datchenko, Gennady Kuzmich, 3,646,435.
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- Raichel, Daniel; and De Vries, Chris G., 3,637,039.
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- Niccum, Forest G.; Kudlaty, Walter J.; Dauer, Charles W.; and Heinrich, Peter, Jr., 3,647,083.
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- Davey, Anthony Walter, to Morris, Herbert, Limited. Linear motors with cooling means. 3,668,444, 6-6-72, Cl. 310-13.
- Davey, Anthony Walter, to Morris, Herbert, Limited. Automatically operating and controlling reciprocating motion. 3,673,482, 6-27-72, Cl. 318-266.
- Davey, Catherine Margaret: *See—*
- Wells, Frank Herbert; and Davey, Cyril Norman, 3,678,731.
- Davey, Cyril Norman: *See—*
- Wells, Frank Herbert; and Davey, Cyril Norman, 3,678,731.
- Davey, Ernest: *See—*
- Coombs, Peter M.; Davey, Ernest; and Kowalski, Conrad Edward, 3,704,928.
- Davey, F. W., and Company Proprietary Limited: *See—*
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- Davey, John E., to United States of America, Navy. Method of making ion implanted dielectric enclosures. 3,663,308, 5-16-72, Cl. 148-1.500.
- Davey, John E.; and Pankey, Titus, Jr., to United States of America, Navy. Method of forming gallium phosphide coatings. 3,690,915, 9-12-72, Cl. 117-33.300.
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- Davey, Peter Gordon, to Cosmopolitan Assurance Company Limited. Leak detectors. 3,691,821, 9-19-72, Cl. 73-49.200.
- Davey, Ronald E.; Tomlinson, Charles N.; and White, Alan, to Treplex Safety Glass Company Limited. Laminated structures. 3,669,826, 6-13-72, Cl. 161-196.000.
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- David, Charles E.; and Wood, Wallace E., to United States of America, Army. High speed greatest of comparator circuit. 3,646,457, 2-29-72, Cl. 328-147.
- David, Donald J.; and Zippis, David L., to Tracor, Inc. Adjustable apparatus for flame ionization and flame emission detection. 3,661,533, 5-9-72, Cl. 23-254.
- David, Edwards G.: *See—*
Starr, Arthur T.; and David, Edwards G., 3,706,054.
- David, Harold: *See—*
Bucolo, Giovanni; and David, Harold, 3,703,591.
- David, Harry: *See—*
Kochalski, Horst; Rudszinat, Willy; David, Harry; Erdmann, Otto; Rode, Ludwig; and Suck, Hans, 3,662,880.
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- David, Joseph; and Hubert, Jules. Apparatus intended for clearing sanitary appliances. 3,641,597, 2-15-72, Cl. 4-255.
- David, Melvin J. Merchandise display apparatus. 3,688,917, 9-5-72, Cl. 211-174.000.
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Burke, Oliver W., Jr.; Kizer, Joseph Austin A.; and David, Pauls, 3,673,168.
- David, Reginald; and Estienne, Jean, to Rhone-Poulenc S.A. Process for the preparation of carbonyl derivatives and carboxylic acids. 3,671,582, 6-20-72, Cl. 260-533.00r.
- David, Richard F.: *See—*
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- David, Vivian; and Norton, David J., to Westinghouse Brake and Signal Company, Limited. Information transmission systems. 3,643,025, 2-15-72, Cl. 178-69.5.
- Davidge, Ronald V.; and Kolpek, Robert A., to International Business Machines Corporation. Dictating and transcribing systems featuring random sentence arrangement with recognition and location of sentences in a preferred sequence. 3,660,616, 5-2-72, Cl. 19-100.2md.
- Davidge, Ronald V.; Locklar, Henry C.; Ralston, James C.; and Ritchie, Robert T., to International Business Machines Corporation. Magnetic brush cleaning system. 3,700,328, 10-24-72, Cl. 355-15.000.
- Davidovitch, Jecheskel: *See—*
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- Davidovits, Paul; and Egger, Maurice David. Scanning optical microscope. 3,643,015, 2-15-72, Cl. 178-6.8.
- Davidson, Albin A.: *See—*
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- Davidson, Arthur R.; Haubner, John E.; and White, George A., to Lamb-Weston, Inc. Method for processing edible foodstuffs. 3,642,495, 2-15-72, Cl. 99-100.
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Weinstein, James D.; and Davidson, Barry A., 3,689,949.
- Davidson, Brian Y. Device for heating frankfurters and the like. 3,669,002, 6-13-72, Cl. 99-327.000.
- Davidson, Cecil W., to Forney Engineering Company. Solid state circuit controlled three phase reversing starter. 3,646,416, 2-29-72, Cl. 318-207.
- Davidson, Charlotte C.: *See—*
Mason, James N.; and Davidson, Charlotte C., 3,687,457.
- Davidson, Daniel Fraser: *See—*
Roach, Peter Francis; and Davidson, Daniel Fraser, 3,672,209.
- Davidson, David Fulton; and Irving, Brian Arthur, to Associated Electrical Industries Limited. Electrically insulating joints for high-pressure pipelines. 3,705,735, 12-12-72, Cl. 285-53.000.
- Davidson, Donald J.: *See—*
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- Davidson, Donald R.; and Wilson, Edmund B., III, to Singer Company, The. Selectable bobbin thread tensions. 3,702,102, 11-7-72, Cl. 112-184.000.
- Davidson, Emil, to Guild Molders, Inc. Pivotal connection for plastic product. 3,654,939, 4-11-72, Cl. 132-88.7.
- Davidson, Eugene M.; and Monroe, Robert C., to Hudson Products Corporation. Variable pitch fan for heat exchangers. 3,684,398, 8-15-72, Cl. 416-155.000.
- Davidson, Eugene M., to Hudson Products Corporation, mesne. Axial flow fans. 3,685,332, 8-22-72, Cl. 72-216.000.
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- Davidson, Evan E.; and Moore, Richard L., to International Business Machines Corporation. Variable breakdown storage cell with negative resistance operating characteristic. 3,660,822, 5-2-72, Cl. 340-173.
- Davidson, George L.; and Beltramo, Renaldo M., to Tuttle, Incorporated. Apparatus for generating ultra violet light. 3,662,175, 5-9-72, Cl. 250-86.
- Davidson, Gilbert: *See—*
Orfei, John B.; Davidson, Gilbert; and Walters, John, 3,649,097.
- Davidson, Henry, to Gillette Company, The. Marking pen type writing instrument. 3,639,070, 2-1-72, Cl. 401-199.
- Davidson, James Clark: *See—*
Wollum, James E.; Rawlings, Robert L.; and Davidson, James Clark, 3,646,519.
- Davidson, James P.: *See—*
Miller, Stanley J.; and Davidson, James P., 3,677,211.
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- Davidson, James R., to Xerox Corporation. Manifold imaging system. 3,642,363, 2-15-72, Cl. 355-3.
- Davidson, Jimmy L.; and Rouse, George V., to Radiation Incorporated. Precision polishing of semiconductor crystal wafers. 3,699,722, 10-24-72, Cl. 51-283.000.
- Davidson, John Bruce, to Coventry Gauge & Tool Company Limited. Torque limiting devices. 3,650,362, 3-21-72, Cl. 192-56.
- Davidson, John R., to Motorola, Inc. Shared volume and tone control system. 3,681,704, 8-1-72, Cl. 330-124.000.
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- Davidson, John W. Reinforcement clip. 3,649,059, 3-14-72, Cl. 287-189.35.
- Davidson, Keith Vernon; and Schell, Donald H., to United States of America, Atomic Energy Commission. Production-scale formation of ultrahigh purity carbide powers. 3,666,845, 5-30-72, Cl. 264-500.
- Davidson, Kenneth H.; and Morris, Carrol V., to Snorkel Fire Equipment Company. Fire fighting apparatus with telescoping boom. 3,675,721, 7-11-72, Cl. 169-24.000.
- Davidson, Louis. Portable mantle assembly. 3,657,848, 4-25-72, Cl. 52-36.
- Davidson, Melvin J.: *See—*
Ehrlich, Joseph R., 3,678,947.
- Davidson, Miron. Pull skein winder. 3,693,897, 9-26-72, Cl. 242-18.00r.
- Davidson, Per: *See—*
Lofberg, Jan Anders Stensson; and Davidson, Per, 3,682,435.
- Davidson, Ragnar Per-Olof, to Aktiebolaget Bofors. Flare body. 3,678,854, 7-25-72, Cl. 102-37.800.
- Davidson, Ralph L.; and Arsenault, James H., to Curtis & Marble Machine Company. Packaging machine. 3,648,429, 3-14-72, Cl. 53-77.
- Davidson, Robert E., to Adams Rite Manufacturing Company. Electric release strike. 3,638,984, 2-1-72, Cl. 292-341.16.
- Davidson, Robert W.; and Schuerch, Conrad. Method of forming wood. 3,642,042, 2-15-72, Cl. 144-327.
- Davidson, Roger, to FMC Corporation. Method and apparatus for ultrasonically clarifying liquid. 3,707,230, 12-26-72, Cl. 210-77.000.
- Davidson, Roger A.: *See—*
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- Davidson, William E.: *See—*
Walker, Wendell C.; and Davidson, William E., 3,664,045.
- Davidson, William E.; and Busby, Llewellyn D., to General Electric Company. Adjustable sprayer iron with temperature interlock. 3,654,715, 4-11-72, Cl. 38-77.5.
- Davidson, William E., to General Electric Company. Adjustable sprayer iron. 3,685,180, 8-22-72, Cl. 38-77.500.
- Davidson, William E.; Walker, Wendell C.; and Foster, Harold S., to General Electric Company. Adjustable manual spray iron. 3,685,181, 8-22-72, Cl. 38-77.500.
- Davidson, William E.; and Walker, Wendell C., to General Electric Company. Steam and spray iron. 3,685,182, 8-22-72, Cl. 38-77.300.
- Davidson, William J., to Electronic Controls Corporation. Permutation switches. 3,657,496, 4-18-72, Cl. 200-43.
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- Davidson, William M.; and Cole, Howard W., Jr., to Proteus, Inc. Locator devices. 3,657,752, 4-25-72, Cl. 9-9.
- Davidson, William M.; and Cole, Howard W., Jr., to Proteus, Inc. Variable displacement recovery devices. 3,659,299, 5-2-72, Cl. 9-8.
- Davie, William R., to Porter Pain Co., mesne. Method of preparing antifoulant coating compositions and resulting product. 3,676,388, 7-11-72, Cl. 260-28.
- Davieau, Felix K. Lift and dump apparatus. 3,702,662, 11-14-72, Cl. 214-302.000.
- Davies, Albert J.: *See—*

- Lovelock, James E.; Davies, Albert J.; and Ferris, Frank R., 3,634,754.
- Davies, Arthur Gordon, to Medical and Electrical Instrumentation Company. Apparatus for the measurement of ultra-violet, visible and/or infra-red radiation. 3,653,763, 4-4-72, Cl. 356-51.
- Davies, Ben; and Henry, George R., to Dresser Industries, Inc. Basic refractory shapes. 3,635,740, 1-18-72, Cl. 106-59.
- Davies, Charles T., Jr.: *See—*
Clark, William A., IV; Davies, Charles T., Jr.; Salmond, Kent A.; and Stafford, Thomas S., 3,646,524.
- Davies, Daniel J.: *See—*
Manion, Jean P.; and Davies, Daniel J., 3,674,667.
- Davies, David A., to Automotive Products Company Limited. Heat dissipating means for use with friction clutches of motor vehicles. 3,661,238, 5-9-72, Cl. 192-113.
- Davies, David Frank; Dickinson, Thomas; and Foord, Arthur David. Oxygen sensors. 3,689,394, 9-5-72, Cl. 204-195.00p.
- Davies, Dennis; and Kern, John P., to Digital Telephone Systems, Inc., mesne. Circuit usage analyzer. 3,691,303, 9-12-72, Cl. 179-8.00a.
- Davies, Douglas R.: *See—*
Bidwell, Dennis P.; Davies, Douglas R.; Hanley, John T., Jr.; Hart, William K.; Henderson, Thomas A.; Lovell, Thomas W.; and Fogg, Lloyd C., 3,665,447.
- Davies, Everett H., to Barber-Colman Company. Extensible cable structure. 3,676,572, 7-11-72, Cl. 174-69.000.
- Davies, Fred. Pipe fitting tool. 3,683,657, 8-15-72, Cl. 72-112.000.
- Davies, Gareth Morse, to Imperial Chemical Industries Limited. Antibacterial compositions. 3,681,493, 8-1-72, Cl. 424-185.000.
- Davies, Geoffrey Peter, to Lockspike Limited. Railway rail-fastening member and a railway rail and fastening arrangement including the member. 3,658,246, 4-25-72, Cl. 238-349.000.
- Davies, George Edward; Dukes, Michael; and Johnston, Thomas Paterson, to Imperial Chemical Industries Limited. Pharmaceutical compositions containing a sympathomimetic amine and a triazolo-pyrimidine derivative and methods of preventing bronchospasms. 3,65,896, 4-11-72, Cl. 424-251.
- Davies, Gordon Idris; Killay, Swansea; and Williams, Terence, to British Iron and Steel Research Association, The. Material depositing apparatus. 3,678,888, 7-25-72, Cl. 118-48.000.
- Davies, Guy Edward; and Fitzmaurice, Charles Michael, to Plessey Company Limited, The. Fluidic jet collectors. 3,650,285, 3-21-72, Cl. 137-81.5.
- Davies, Guy Edward, to Plessey Company, Limited, The. Fluidic control systems. 3,680,578, 8-1-72, Cl. 137-81.500.
- Davies, Guy Edward, to Plessey Company Limited, The. Fluidic control systems. 3,682,192, 8-8-72, Cl. 137-81.500.
- Davies, Gwyn, to A.B. Electronic Components Limited. Alternate action mechanism for pushbutton switch with flat-headed latching pin. 3,707,610, 12-26-72, Cl. 200-153.00j.
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- Davies, Idwal; Canning, Thomas Arthur; and Harris, Alan G., to British Iron and Steel Research Association, The. Production of strip from powdered metal. 3,658,517, 4-25-72, Cl. 75-200.
- Davies, James J.: *See—*
Walles, Wilhelm E.; and Davies, James J., 3,634,385.
- Davies, James M.; Hackmann, Larry G.; Peterson, Robert A.; Smith, Roger M.; and Wirt, Leon A., to Caterpillar Tractor Company. Adjustable ripper tip. 3,659,654, 5-2-72, Cl. 172-699.000.
- Davies, Jenkin Eric: *See—*
Van Dijk, Jan; and Davies, Jenkin Eric, 3,692,835.
- Davies, Jenkin Eric; and Van Dijk, Jan, to U.S. Philips Corporation. O-(2-Aminoethyl)oximes of alkyl 2- (and 3-) benzofuranyl ketones. 3,658,850, 4-25-72, Cl. 260-346.2.
- Davies, John G.; and Thomas, John C., to Buckbee-Mears Company. Method and apparatus for controlling the size of perforations in a shadow mask. 3,645,811, 2-29-72, Cl. 156-5.
- Davies, John H.: *See—*
Donninger, Cyril; Davies, John H.; and Davis, Royston H., 3,639,620.
- Davies, John S. Fire detection system and unit. 3,701,985, 10-31-72, Cl. 340-228.000.
- Davies, John W., III: *See—*
Enters, Edward W.; Price, Warren H.; Davies, John W., III; and Hochwitz, Lynn E., 3,678,770.
- Davies, Norman; and Binz, Robert D., to Westinghouse Electric Corporation. Switch having magnetic latching means. 3,648,204, 3-7-72, Cl. 335-170.
- Davies, Norman, to Westinghouse Electric Corporation. Circuit interrupter with motor operated spring charging means including two ratchets and two pawls. 3,652,815, 3-28-72, Cl. 200-153.
- Davies, Norman, to Westinghouse Electric Corporation. Circuit interrupter spring charging means with toggle type latch. 3,684,848, 8-15-72, Cl. 200-153.0sc.
- Davies, Paul M., to TRW Inc., mesne. Self-searching memory utilizing improved memory elements. 3,646,528, 2-29-72, Cl. 340-173.1.
- Davies, Peter W.; and Dennison, John P. Processes for refining the grain size of metals. 3,635,701, 1-18-72, Cl. 75-135.
- Davies, Philip Hywel; Hobden, Maurice Vernon; Hulme, Kenneth Fraser; and Jones, Oliver. Process for preparing single crystalline Ag₃As₂ and Ag₃Sb₂ and solid solutions thereof. 3,696,038, 10-3-72, Cl. 252-62.900.
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Fisher, Donald J.; and Davies, Robert G., 3,657,103.
- Ganong, William L., Jr.; Bryant, Furnie S.; Neill, Henry R.; and Davies, Robert G., 3,648,027.
- La Cagnina, John M.; and Davies, Robert G., 3,697,407.
- Neill, Henry R.; and Davies, Robert G., 3,660,972.
- Davies, Robert H., to Parker-Hannifin Corporation. Fluid motor. 3,673,925, 7-4-72, Cl. 92-128.000.
- Davies, Robert L.: *See—*
Huth, Gerald C.; and Davies, Robert L., 3,697,829.
- Davies, Robert William, to Molins Limited. Mechanism for producing rectilinear motion. 3,703,103, 11-21-72, Cl. 74-86.000.
- Davies, Robin Evan, to Marconi Company Limited, The and Standard Telephones and Cables Limited. Adding frequency-modulated electrical signals. 3,651,410, 3-21-72, Cl. 325-446.
- Davies, Robin John; and Capewell, William Kenneth, to Elliott Brothers (London) Limited. Signal generating apparatus. 3,669,024, 6-13-72, Cl. 102-70.20r.
- Davies, Ronald C., to Modern Research Inc., mesne. Auto theft prevention system. 3,675,036, 7-4-72, Cl. 307-10.0at.
- Davies, Stuart Duncan; McCarthy, Roy Fred John; and Watts, Richard James, to Dowty Rotor Limited. Devices of fibrous-reinforced plastics material. 3,664,764, 5-23-72, Cl. 416-224.
- Davies, Terence J.: *See—*
Nelson, Melvin A.; Lackey, Jerry G.; and Davies, Terence J., 3,675,022.
- Davies, Terence J., to Xerox Corporation. Electrostatic pigment filter. 3,655,550, 4-11-72, Cl. 204-302.
- Davies, Theodore E., to North American Manufacturing Company, The. Burner structure and method. 3,666,393, 5-30-72, Cl. 431-90.
- Davies, Thomas Ellis; and Hopkins, Hubert Brian, to Dow Chemical Company Limited. Anti-static polymer compositions with discoloration suppressors. 3,639,518, 2-1-72, Cl. 260-880.
- Davies, Walter J.; Hatton, Barry; Boyd, George C.; and Hanlan, Harvey E. W., to Kanting Oilfield Services Ltd. Sludge incinerator. 3,704,676, 12-5-72, Cl. 110-8.00r.
- Davin, Donald R.; and Grant, Michael E., to Blaw-Knox Construction Equipment, Inc. Pavement widener. 3,636,831, 1-25-72, Cl. 94-45.
- Davin, Donald R.; and Beckley, Gary H., to Blaw Knox Construction Equipment, Inc. Paving machine. 3,700,288, 10-24-72, Cl. 305-38.000.
- Davin, Donald R., to Blaw-Knox Construction Equipment, Inc. Quick change screed extension for paving machines. 3,702,578, 11-14-72, Cl. 94-45.00r.
- Davin, John Joseph. Construction support means. 3,674,234, 7-4-72, Cl. 248-239.000.
- Davino, Salvatore. Relief illusion television viewing apparatus. 3,680,949, 8-1-72, Cl. 350-144.000.
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- Davis, Albert H. Pumps. 3,655,300, 4-11-72, Cl. 417-397.
- Davis, Allen V. C. Stereoscopic viewing apparatus with single-axis optical system with conventional object lens. 3,663,085, 5-16-72, Cl. 350-132.
- Davis and Furber Machine Company: *See—*
Krull, Maynard J., 3,687,252.
- Netti, Anthony; and Bussiere, Douglas, 3,664,112.
- Davis, Anthony Charles; and Fisher, Ian Stuart, to Imperial Chemical Industries Limited. Sheath/core bicomponent filaments and process of preparing same. 3,679,541, 7-25-72, Cl. 161-175.000.
- Davis, Anthony Charles; and Amos, Brian Franklyn, to Imperial Chemical Industries Limited. Synthetic yarns. 3,706,195, 12-19-72, Cl. 57-140.0by.
- Davis, Ardell. Display rack. 3,666,114, 5-30-72, Cl. 211-49.
- Davis, Ariel R. Cordless electric cross connect panel with improved reciprocating contact assembly. 3,652,813, 3-28-72, Cl. 200-16.
- Davis, Ariel R. Method of manufacture. 3,656,378, 4-18-72, Cl. 83-1.
- Davis, Ariel R. Framework for supporting air cooled electrical and electronic equipment. 3,701,928, 10-31-72, Cl. 317-99.000.
- Davis, Bernard J., to Reichhold Chemicals, Inc. Vinyl toluene-alpha methyl styrene copolymers and method of preparing the same. 3,640,981, 2-8-72, Cl. 260-88.2.
- Davis, Bernard J., to Reichhold Chemicals, Inc. Filter aid conditioners. 3,648,847, 3-14-72, Cl. 210-500.
- Davis, Bernard J., to Reichhold Chemicals, Inc. Copolymers from para tertiary butyl styrene and alpha methyl styrene and method for producing same. 3,654,250, 4-4-72, Cl. 260-88.2.
- Davis, Bernard J.; and Ranson, Wesley J., to Reichhold Chemicals, Inc. Copolymers from paratertiary butyl styrene and diisobutylene and method for producing same. 3,702,842, 11-14-72, Cl. 260-88.20c.
- Davis, Billy C., to Texas Instruments, Incorporated. AC coupled comparator and A/D converter. 3,657,563, 4-18-72, Cl. 307-251.

- Davis, Billy D.; and Jones, Elvis E., to Dow Chemical Company, The. Polyurethane foams of organic polyisocyanates and polyols derived from alkylene diamines and novolac resins and method of making same. 3,686,101, 8-22-72, Cl. 260-2.5aq.
- Davis, Billy E.; and Gilliam, Paul V., to Signet Controls, Inc. Calibrating barrel. 3,643,489, 2-22-72, Cl. 73-3.
- Davis, Billy E.; and Dunegan, Ronald G. Fluid flow direction switching means. 3,682,198, 8-8-72, Cl. 137-625.430.
- Davis, Billy W., to Schlumberger Technology Corporation. Hoop stressed beam hydrophone. 3,675,193, 7-4-72, Cl. 340-10.000.
- Davis, Buell L.; and Pulliam, Richard D. Bag drawstring threader. 3,688,379, 9-5-72, Cl. 29-241.000.
- Davis, Carl H.: See—
Burleson, E. Richard; and Davis, Carl H., 3,670,880.
- Davis, Carlton J., Sr.: See—
Preston, Jerome A.; and Davis, Carlton J., Sr., 3,664,982.
Preston, Jerome A.; and Davis, Carlton J., Sr., 3,705,125.
- Davis, Cecil J., to Bridge Data Products, Inc., mesne. Card feeder. 3,642,271, 2-15-72, Cl. 271-41.
- Davis, Cecil J., to Bridge Data Products, Inc. Apparatus for punching, printing and verifying data cards. 3,684,164, 8-15-72, Cl. 234-34.000.
- Davis, Charles, to Davis Construction Corporation. Cover plate attachment for elevating scraper. 3,698,109, 10-17-72, Cl. 37-124.000.
- Davis, Charles R., to United States of America, Navy. Cryogenic single sensor three component magnetometer. 3,667,033, 5-30-72, Cl. 324-43.00r.
- Davis, Charles S., to Curtiss-Wright Corporation. Counter-rotating output transmission. 3,646,834, 3-7-72, Cl. 74-674.
- Davis, Charles T. Cleaning and sterilizing device. 3,699,984, 10-24-72, Cl. 134-95.000.
- Davis, Chester P., to Dow Chemical Company, The. Bag closure means. 3,670,876, 6-20-72, Cl. 206-58.000.
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Davis, Charles, 3,698,109.
- Davis, Curry Beach, to Arizona Chemical Company. Catalyzed isomerization of α -pinene. 3,642,928, 2-15-72, Cl. 260-675.5.
- Davis, Curry Beach, to Arizona Chemical Company, mesne. Molecular sieve 13-X catalyzed isomerization of α -pinene-improvement of catalyst activity. 3,696,164, 10-3-72, Cl. 260-675.500.
- Davis, Darwin Darrell: See—
White, Jesse Oris; and Davis, Darwin Darrell, 3,637,832.
- Davis, David E., to Midwest Steel Fabricators, Inc. Aggregate dryer for asphalt plant. 3,703,274, 11-21-72, Cl. 263-30.000.
- Davis, David S.; and Kim, Young K., to Witco Chemical Corporation. Halogenation of hydroxyaryl sulfones. 3,703,556, 11-21-72, Cl. 260-607.00a.
- Davis, Delbert A.; Averette, Samuel R.; and Voss, Gary Dwight, to Burlington Industries, Inc. Laminated fabric for use as the fabric upper of shoes. 3,642,563, 2-15-72, Cl. 161-88.
- Davis, Dennis A., to General Motors Corporation. Cooling fan. 3,635,285, 1-18-72, Cl. 165-51.
- Davis, Dennis J.; Sudnick, Dennis J.; Juhasz, John E.; and Kurichh, Sham, to Bendix Corporation, The. Adaptive control for fluid pressure braking system. 3,677,609, 7-18-72, Cl. 303-21.0be.
- Davis, Dewey R.: See—
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- Davis, Dhu Aine J., to Hermetic Coil Co., Inc. Electrical coil. 3,634,878, 1-11-72, Cl. 336-192.
- Davis, Dhu Aine J., to Hermetic Coil Co., Inc. Electrical coil. 3,660,791, 5-2-72, Cl. 336-192.
- Davis, Donald A. Wall mounted expansible table. 3,648,628, 3-14-72, Cl. 108-33.
- Davis, Donald A. Drawer mounted expansible table. 3,680,942, 8-1-72, Cl. 312-317.000.
- Davis, Donald A.; and Galluzzo, Anthony, to Schwamb Corporation, The. Modular cabinet construction. 3,700,300, 10-24-72, Cl. 312-240.000.
- Davis, Donald E.: See—
Rainey, George E.; Heidmeyer, Donald H.; and Davis, Donald E., 3,641,618.
- Davis, Donald W.: See—
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- Davis, Elbert, to Nupla Corporation. Method for connecting attachments to fiberglass rods. 3,660,887, 5-9-72, Cl. 29-460.
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- Davis, Francis A., Jr., to Paramount Packaging Corporation. Machine for making plastic bags. 3,654,841, 4-11-72, Cl. 93-33.
- Davis, Francis Cecil; and Pirie, John Chapman, to Stauffer-Wacker Silicone Corporation. Silicone resin compositions. 3,650,852, 3-21-72, Cl. 260-46.5.
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- Davis, Jerome. Geometric instrument for azimuth sightings. 3,641,677, 2-15-72, Cl. 33-67.
- Davis, Gordon E. Automobile locking device. 3,690,131, 9-12-72, Cl. 70-203.000.
- Davis, Grosse Ile Pauls: See—
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- Davis, Grover M. Game board with magnetic game pieces. 3,680,865, 8-1-72, Cl. 273-134.0ae.
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- Davis, Harry T., to Hood Sailmakers, Inc. Attachment point. 3,653,353, 4-4-72, Cl. 114-115.
- Davis, Hazel E. Lipstick dispenser. 3,677,654, 7-18-72, Cl. 401-63.000.

- Davis, Henry J. Machine for extracting dirt from holes. 3,651,621, 3-28-72, Cl. 55-304.
- Davis, Howard J. Method for making a tobacco substitute composition. 3,638,660, 2-1-72, Cl. 131-2.
- Davis, Hugh J. Method and device for biopsy specimen collecting and handling. 3,640,268, 2-8-72, Cl. 128-2.
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- Davis, James A. Receptacle for dispensing rollable pill containers. 3,677,440, 7-18-72, Cl. 221-279.000.
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- Davis, Lawrence D. Apparatus for aligning trailer axles. 3,686,770, 8-29-72, Cl. 33-193.000.
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- Davis, Lem, Jr., to Dow Chemical Company, The. Epoxy resin, amine or amidealdehyde, and organic ester of phosphoric acid or organic sulfonic acid. 3,651,169, 3-21-72, Cl. 260-834.
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- Davis, Leonard A., to Garver-Davis Incorporated. Solid waste incinerator. 3,645,218, 2-29-72, Cl. 110-8.
- Davis, Leonard P.; and Elliott, Robert M., to Kimberly-Clark Corporation. Apparatus for continuous molding sheet material. 3,685,930, 8-22-72, Cl. 425-71.000.
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- Davis, Lewis M.; and Hesling, Donald M., to Sealed Power Corporation. Piston ring construction. 3,695,622, 10-3-72, Cl. 277-139.000.
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- Davis, Malcolm F., to Cincinnati Milacron Inc. Method and apparatus for detecting and controlling by relative movement between the tool and workpiece arcing conditions in an EDM process. 3,662,143, 5-9-72, Cl. 219-69.
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- Davis, Martin A.; and Dobson, Thomas A., to Ayerst, McKenna & Harrison Limited. 10,11-Dihydro-10,5-(iminomethano)-5H-dibenzo a,d cyclohepten-10-01; acid addition salts thereof; and process for preparing same. 3,641,038, 2-8-72, Cl. 260-289.
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- Davis, Paul, to Sweetheart Plastics, Inc. Container. 3,677,435, 7-18-72, Cl. 220-60.00r.
- Davis, Paul A.: See—
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- Davis, Paul C., to Bell Telephone Laboratories, Incorporated. Crystal-controlled square-wave generator. 3,649,850, 3-14-72, Cl. 307-261.
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- Davis, Paul K., to Pacific Roller Die Co., Inc. Method of making helical pipe. 3,650,015, 3-21-72, Cl. 29-477.7.
- Davis, Paul K., to Pacific Roller Die Co., Inc. Curving method and apparatus for ridged sheet material. 3,664,170, 5-23-72, Cl. 72-307.
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- Davis, Peter J. Multiple compartment thermally insulated container. 3,705,661, 12-12-72, Cl. 215-6.000.
- Davis, Quinton C., IV. Water surface depth instrument. 3,675,483, 7-11-72, Cl. 73-327.000.
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- Davis, Richard K., to General Electric Company. Acceleration control circuit for a gas turbine. 3,662,545, 5-16-72, Cl. 60-39.280.
- Davis, Richard K., to General Electric Company. Gas turbine temperature adaptive control. 3,667,218, 6-6-72, Cl. 60-39.281.
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- Davis, Robert, to Combustion Equipment Associates, Inc. Gas analyzer. 3,700,411, 10-24-72, Cl. 23-254.00e.
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- Davis, Robert A., to Xerox Corporation. Adjustable label knife. 3,668,963, 6-13-72, Cl. 83-346.000.
- Davis, Robert D., to Spectral Dynamics Corporation. Frequency band shifter. 3,691,394, 9-12-72, Cl. 307-3.000.
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- Davis, Samuel B., Jr., to Vits Maschinenbau GmbH. Fastening tools. 3,698,231, 10-17-72, Cl. 72-391.000.
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- Davis, William; and Stevenson, Moses. Coin-operated safety latch for phone booths and the like. 3,685,627, 8-22-72, Cl. 194-32.000.
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- Davis, William F. Pipe cutting devices and methods of making and using the same. 3,656,734, 4-18-72, Cl. 266-23.
- Davis, William F.; and Fredericks, Thomas M., to Motorola, Inc. Audio frequency amplifier. 3,665,329, 5-23-72, Cl. 330-19.000.
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- Davis, Wilton J., to Sealy, Inc. Mattress corner construction. 3,653,081, 4-4-72, Cl. 5-262.
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- Maltby, Jack, 3,667,272.
- Senior, David Clive, 3,680,993.
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- Dawber, Frank: See—
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- Dawkins, Thomas C. Supply unit for oral cleaner. 3,645,288, 2-29-72, Cl. 137-255.
- Dawley, Daniel B.; and Johnson, Roy V., to Admiral Corporation. Cantilever refrigerator shelf. 3,707,317, 12-26-72, Cl. 312-214.000.
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- Daws, Thomas W.; and Lehman, Albert L., to Bethlehem Steel Corporation. Killed steel and method of making same. 3,688,831, 9-5-72, Cl. 164-65.000.
- Dawson Carbide Industries: See—
- Guensche, Oscar M., 3,703,755.
- Dawson, Donald J. Fishing line submerging device. 3,667,148, 6-6-72, Cl. 43-43.13.
- Dawson, Elmer C. Garden tractor. 3,680,640, 8-1-72, Cl. 172-258.000.
- Dawson, Fred: See—
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- Dawson, Gary D.: See—
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- Dawson, Gordon Bertram, to Dowty Meco Limited. Joints for flexible ducting. 3,705,736, 12-12-72, Cl. 285-260.000.
- Dawson, Hylton: See—
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- Dawson, Jack S., to Dawson-Yager, Inc. Vehicle washing system. 3,685,079, 8-22-72, Cl. 15-21.00d.
- Dawson, James A., to McDonnell Douglas Corporation. Coupling fitting for connecting two pipes. 3,675,949, 7-11-72, Cl. 285-354.000.
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- Dawson, Peter S. S., to Canadian Patents and Development Limited. Apparatus for the continuous phased culturing of cells. 3,647,633, 3-7-72, Cl. 195-139.
- Dawson, Ralph E.; and Mahaffey, Donald M., to United States of America, Army, mesne. Process for the separation of HMX from mixtures comprising RDX and HMX. 3,676,425, 7-11-72, Cl. 260-239.0hm.
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- Dawson, Theodore R. Pole vault crossbar apparatus. 3,637,204, 1-25-72, Cl. 272-59.
- Dawson, Trevor: See—
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- Dawson, Willis S., to Cyanede Plastics, Inc. Tearable filling and sealing closure plug. 3,635,234, 1-18-72, Cl. 137-68.
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- Dax, Peter R.; and Moore, Thomas M., to Westinghouse Electric Corporation. Two faced phased array. 3,648,284, 3-7-72, Cl. 343-5.
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- Oberhart, George S., 3,665,161.
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- Day, Arthur Reginald, III; and Kimpel, Frank A., to Borg-Warner Corporation. Overload and overcurrent regulation and protection system. 3,633,073, 1-4-72, Cl. 317-38.
- Day, Christopher C., to American Optical Corporation. Non-linear rate measuring instrument. 3,634,761, 1-11-72, Cl. 324-78.
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- Day, Christopher C., to American Optical Corporation. Self calibrating tidal volume impedance pneumograph. 3,690,143, 9-12-72, Cl. 73-1.00r.
- Day Company, N.V.: See—
- Schneble, Frederick W., Jr.; McCormack, John F.; Zebisky, Rudolph J.; Williamson, John Duff; and Polichette, Joseph, 3,672,986.
- Day, Donald R.: See—
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- Day, Edward G., to General Motors Corporation. Sensor and trigger mechanism. 3,648,898, 3-14-72, Cl. 222-5.
- Day, Frank A.; and Repella, James A., to Federal-Mogul Corporation. Dual-lip shaft seal with spring urged auxiliary lip. 3,692,318, 9-19-72, Cl. 277-164.000.
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- Day, Lawrence, to Spitfire Tool & Machine Co., Inc. Means for applying a liquid abrasive over the surface of a rotatable lapping table of a lapping machine. 3,683,562, 8-15-72, Cl. 51-131.000.
- Day, Leon; and McCandless, Jiles Joe. Valve stem grinding device. 3,631,639, 1-4-72, Cl. 51-241.
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- Brinks, Floyd J.; Day, Lucian P., Jr.; and Jones, Jerry L., 3,678,867.
- Day, Michael D., to Horton Manufacturing Company, Inc. Device for releasing a spring urged brake. 3,688,877, 9-5-72, Cl. 188-166.000.
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- Day, William C.: See—

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- Day-Glo Color Corporation: See—
- McIntosh, Maurice Dwight, 3,642,650.
- Dayard, Gaston. Bearing intended to support a shaft capable of rotating at high speeds. 3,637,271, 1-25-72, Cl. 308-187.
- Daybrook-Ottawa Corporation: See—
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- Clifton, Edward A.; and Carrandi, Artemio P., 3,668,752.
- Clinkenbeard, Donald E., 3,698,242.
- Fisher, David G., 3,657,938.
- Heilgenenthal, Harry E.; and Nichols, Arthur E., Jr., 3,646,652.
- Huber, Walter E., 3,664,715.
- Huber, Walter E., 3,674,322.
- Jacob, Richard J., 3,680,868.
- Jacob, Richard J., 3,698,443.
- Leanna, Dale D., 3,635,161.
- Richmond, Kenneth D.; and Jensen, Howard J., 3,634,572.
- Richmond, Kenneth D., 3,665,069.
- Spivy, Paul L., 3,680,925.
- Stikkens, Tieme C., 3,702,570.
- Wickham, William T.; Brown, Frank; Kleykamp, Donald L.; and Kossuth, Otto, 3,636,285.
- Daykin, Theodore W.: See—
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- Daylin Laboratories, Inc.: See—
- Espoy, Henry Marti, 3,689,275.
- Daymond, Stewart F. Conduits. 3,698,193, 10-17-72, Cl. 61-1.00r.
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- Dayton, David S.; and Girard, Alfred L., to Technical Communications Corporation. Asynchronous, swept frequency communication system. 3,691,464, 9-12-72, Cl. 325-55.00.
- Dayton Electronic Products Company: See—
- Hoeffel, James D.; and Kubach, Reinhold W., 3,673,607.
- Dayton Reliable Tool & Mfg. Company: See—
- Eickenhorst, Franklin C., 3,635,069.
- Dayton Steel Foundry Company, The: See—
- Fannin, Chester N., 3,651,896.
- Ischabrun, Richard G.; and Afanador, Carlos P., 3,697,910.
- Walther, William D., 3,642,327.
- Dayton Sure-Grip and Shore Company, The: See—
- Hilgeman, Charles E., Jr., 3,632,724.
- Dayton Wright Associates Limited: See—
- Wright, William M. D., 3,668,336.
- Dazai, Miyoji: See—
- Ito, Kenkichi; Mizoguchi, Naomasa; Dazai, Miyoji; and Sato, Osahiro, 3,646,082.
- Dazor Manufacturing Corporation: See—
- Hogrebe, Herbert C., 3,662,981.
- Hogrebe, Herbert C., 3,695,568.
- Dazzi, Joachim, to Ciba-Geigy Corporation. Bis [2,6 dioxomorpholinyl-4)] phenyls and alkyls. 3,660,388, 5-2-72, Cl. 260-2.46.
- DBM Industries Limited: See—
- Caroli, Italo, 3,635,566.
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- DCA Food Industries Inc.: See—
- Fischer, Leonard G.; and Wong, Philip, 3,676,158.
- Hochhauser, Arthur; and Clark, Frank, 3,694,228.
- Kaufman, Harold B., Jr.; Schiffmann, Robert F.; and Stein, Ernest W., 3,670,132.
- Klug, Sigmund L.; Finkel, Gilbert; and Sherain, Monroe B., 3,669,674.
- Schiffmann, Robert F.; Roth, Howard; Lipka, David H.; and Goodman, Abraham H., 3,633,490.
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- Schiffmann, Robert F.; Stein, Ernest W.; and Kaufman, Harold B., Jr., 3,699,899.
- Smadar, Yechiel; Roth, Howard; and McCarthy, John P., 3,650,765.
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- Smadar, Yechiel; and Goodman, Abraham H., 3,677,443.
- Thompson, Hal J., 3,669,688.
- De Aguirre, Amanuel: See—
- Martens, Jean Victor; Natens, Marcel Clement Rene; and De Aguirre, Amanuel, 3,657,631.
- De Alva, Paul C.: See—
- Burklund, Wayne E.; and De Alva, Paul C., 3,682,417.
- De Angeli, Francesco. Magnetically-actuated vibrator. 3,633,570, 1-11-72, Cl. 128-41.
- De Angelis, Eugene: See—
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- De Angelis, Gerald George; and Hess, Hans-Jurgen Ernst, to Pfizer Inc. Certain 4-amino-6-aryl-pyrimidines. 3,707,560, 12-26-72, Cl. 260-256.50r.
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- De Angelis, William M., to Technicon Instruments Corporation. Coupling for joining glass pipe sections and the like. 3,679,237, 7-25-72, Cl. 285-109.000.
- De Angelis, William M., to Daran Products, Inc. Valve for laboratory glassware. 3,698,683, 10-17-72, Cl. 251-209.
- De Angelo, Gerald J.; Gelzheiser, Francis L.; and Coley, Kenneth R. Terminal device. 3,683,414, 8-8-72, Cl. 339-272.0vc.
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- Fandetti, Matthew R.; and De Azevedo, Joseph P., 3,645,562.
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- De Barge, Raymond R., to Emhart Corporation. Packing machine for folding blanks around article groups fed continuously therethrough. 3,681,893, 8-8-72, Cl. 53-209.000.
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- De Barros, Fernando. Nivagational trapezoid. 3,673,690, 7-4-72, Cl. 33-75.000.
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- De Baun, Kenneth W., to Servodyne Corporation. Universal filter holding frame and media assembly. 3,707,046, 12-26-72, Cl. 55-483.000.
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- Kalopissis, Gregoire; Abegg, Jean-Louis; Ghilardi, Guiliana; and De Beaulieu, Henri Philippe, 3,642,429.
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- De Bell, Lawrence R.; and Price, David D., Jr., to Economy Company. Audio tutoring device including recording capability. 3,705,271, 12-5-72, Cl. 179-100.2md.
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- De Berardinis, Albert J., to Atlas Chemical Industries, Inc. Alkali treated hydrogenation catalyst. 3,705,199, 12-5-72, Cl. 260-635.00c.
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- De Blance, Donald E., to Texas Instruments, Incorporated. Voltage controlled color film recording system. 3,643,021, 2-15-72, Cl. 178-15.

- De Blok, Jan F.; and Jansse, Leonard, to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Method for deoxidizing effervescent steel. 3,702,151, 11-7-72, Cl. 164-57.000.
- De Boeck, Paul; Marteel, Bernard; and Schrijvers, Jozef, to Belgonucleaire, S.A. Nuclear fuel. 3,669,833, 6-13-72, Cl. 176-68.000.
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- De Boer, Eeltje, to U.S. Philips Corporation. Two register parallel binary adder/subtractor. 3,676,657, 7-11-72, Cl. 235-175.000.
- De Boer, Geert, to Stork Amsterdam N.V. Method and a device for preparing a quickly soluble powder. 3,687,681, 8-29-72, Cl. 99-56.000.
- De Boer, Henri G. J.; Brooshoof, Thomas; and Wemmers, Anton, to GAF Corporation. Two component diazotype composition having additionally an aniline compound. 3,704,129, 11-28-72, Cl. 96-91.00r.
- De Boo, Jerome L.: See—
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- De Carlo, Angelo N.; and De Carlo, Vito G. Catcher frame for harvester. 3,690,054, 9-12-72, Cl. 56-330.000.
- De Carlo, Vito G.: See—
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- De Caro, Aristide R., to Westinghouse Electric Corporation. Bromine filled bipost lamp with a high temperature resistant glass envelope. 3,644,776, 2-22-72, Cl. 313-318.
- De Caro, Aristide R.; and Rainone, Nicholas J., to Westinghouse Electric Corporation. Lamp combination comprising an improved envelope for tungsten-halogen incandescible projection lamp. 3,648,094, 3-7-72, Cl. 313-221.
- De Caro, Charles J., to Speed Fastener, Inc. Fastener drive tool for caseless loads. 3,688,964, 9-5-72, Cl. 227-10.000.
- De Carpentier, Pieter: See—
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- De Carranza, Elma. Method of separating proteins from proteinaceous animal material using mucilage of flax, quine or flaxwort. 3,684,790, 8-15-72, Cl. 260-112.000.
- De Castiglione, Roberto: See—
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- De Cat, Arthur Henri: See—
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- De Cesaris, Frederick, to Guild Metal Products, Inc. Table construction. 3,643,608, 2-22-72, Cl. 108-157.
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- De Fazio, Dominick J. Closure fastener. 3,669,482, 6-13-72, Cl. 292-80.000.
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- De Feo, Richard J., Jr.: See—
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- De Francis, Joseph, Jr.: See—

- Bontempi, Ignatius; and De Francisci, Joseph, Jr., 3,656,603.
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De Gain, William J., to Koppy Corporation, mesne. Stretch method for making a tubular product. 3,699,624, 10-24-72, Cl. 29-155.00c.
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Van Hazendonk, Johannes Franciscus, 3,648,634.
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De Jong, Eduard B. M., to Technicon Instruments Corporation. Apparatus for pumping with viscosity control. 3,698,870, 10-17-72, Cl. 23-253.00r.
De Jongh, Hendrik Paul, to Organon Inc. 7-Alkyl-steroids. 3,673,225, 6-27-72, Cl. 260-397.500.
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Giori, Gualtiero, 3,656,431.
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Sels, Victor Richard, 3,675,386.

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De Lancy, Warren H., to Pioneer Products Company, mesne. Centrifugal clutch. 3,693,771, 9-26-72, Cl. 192-105.00c.
De Land, Charles L.: See—
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De Lange, Willem; Duyffes, Werner; and Maas, Willem, to U.S. Philips Corporation. Single-phase pesticidal preparations. 3,679,797, 7-25-72, Cl. 424-211.000.
De Langis, Philip A. Apparatus for electrotherapy of the pubococcygeus. 3,640,284, 2-8-72, Cl. 128-422.
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Delamere, Richard William, 3,650,030.
Knight, William Roy; and Delamere, Richard William, 3,688,940.
De Laval Separator Company, The: See—
Nelson, Kurt, 3,637,134.
Tholl, David M., 3,703,983.
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Burtis, Wilson A., 3,647,246.
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Rice, Ivan G., 3,703,807.
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De Lisio, Michael P.; and Clement, Robert L., to Arco Industries Corporation. Gas cleaning system. 3,695,004, 10-3-72, Cl. 55-225.000.
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de Long, Charles F.; and Shepherd, Thomas H., to National Patent Development Corporation. Produce coating. 3,669,691, 6-13-72, Cl. 99-168.000.
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De Long, William T.; and Corcoran, Paul T., to Teledyne, Inc. Stress relieved welded steel composite. 3,667,924, 6-6-72, Cl. 209-196.1.
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Lee, James R.; and De Lurgio, James V., 3,656,686.
De Luxe General Incorporated: See—
Bragg, Herbert E., 3,670,157.
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Longenecker, Bruce Cameron; De Lyon, Armand Rene; and Kensing, Lex Donald, 3,634,879.
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De Marco, John Gregory: See—
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De Meyer, Dennis E.: See—
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- De More, Louis A.: See—
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Lanoue, Thomas J.; and De Neef, John G., 3,676,579.
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Paustian, John E.; and De Thomas, Waldo, 3,632,318.
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Le Page, Madeleine A.; and De Vries, Albert J., 3,677,938.
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- De Witt, Ralph W.: See—
De Witt, David A.; and De Witt, Ralph W., 3,687,267.
- De Witt, Russell G., to Western Union Telegraph Company, The. Method and apparatus for time division multiplex transmission of data and voice signals. 3,660,606, 5-2-72, Cl. 179-15.
- De Witt, Russell G., to Western Union Telegraph Company, The. Method and apparatus for time division multiplex transmission of binary data. 3,663,760, 5-16-72, Cl. 179-15.
- De Witt, Walter G., III: See—
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- De Witt, Walter Groesbeck, III; and Hurwitz, Marvin Joseph. Terephthalic acid /1,2-propylene glycol polyester modifiers for polyvinyl chloride compositions. 3,686,361, 8-22-72, Cl. 260-873.000.
- De Witt, William L.: See—
Spoelhof, John F.; De Witt, William L.; and Werner, Frank C., 3,633,489.
- De Wittie, H. W.; Kirchstein, John A.; and Atit, Kishore M., to International Salt Company. Production of high purity salt. 3,647,396, 3-7-72, Cl. 23-299.
- De Wolf, Frank T., to General Electric Company. Commutating flux fidelity improvement winding. 3,648,089, 3-7-72, Cl. 310-186.
- De Woody, Charles M., to Ace Glass Incorporated. Flexible pressure-type joint for rigid tubing. 3,695,642, 10-3-72, Cl. 285-133.00r.
- De Woskin, Irvin S.; and Jenkins, Murgatroyd H., to Beltz Corporation. Method of and apparatus for forming packages. 3,657,857, 4-25-72, Cl. 53-30.
- De Young, Edwin L., to Universal Oil Products Company. Dimerization of diolefinic compounds. 3,655,791, 4-11-72, Cl. 260-666.
- De Young, Edwin L., to Universal Oil Products Company. Dimerization of diolefinic compounds. 3,691,249, 9-12-72, Cl. 260-677.00r.
- De Young, Robert J.: See—
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- D.E.A. Digital Electronic Automation Societa per Azioni: See—
Sartorio, Franco, 3,639,993.
- Deabon, James S. Method and apparatus for removing entrained dust particles from a gaseous stream. 3,675,397, 7-11-72, Cl. 55-227.000.
- Deacon, Lawrence A. Method and apparatus for bending tubing. 3,691,815, 9-19-72, Cl. 72-458.000.
- Deak, James N., to Bell Telephone Laboratories, Incorporated. Adjustable spring suspension mount having constant static deflection. 3,650,498, 3-21-72, Cl. 248-18.
- Deakin, Alfred; deceased (by Deakin, Ida Mae; administratrix). Cap for oxygen and similar containers. 3,696,964, 10-10-72, Cl. 220-85.
- Deakin, Gordon Asquith; Eastwood, Alan; and Vinnicumbe, Gordon. Transfer mechanism. 3,690,204, 9-12-72, Cl. 83-112.000.
- Deakin, Ida Mae: See—
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- Deakin, Stanley Thomas, to Sealectro Corporation. Apparatus and process thereof for coating with polytetrafluoroethylene and other materials. 3,677,471, 7-18-72, Cl. 239-85.000.
- Deal, John V.; and Nall, Clive. Modular wall and ceiling system. 3,683,100, 8-8-72, Cl. 174-48.000.

- Deal, Joseph D., Jr.; and Michie, James C., III, to Newport News Shipbuilding and Dry Dock Company. Method of maritime delivery of crude oil through ice-congested regions. 3,674,042, 7-4-72, Cl. 137-1.000.
- Deal, Robert S.; and Evans, Joseph H., to Raychem Corporation. Pyrotechnic heating device. 3,679,189, 7-25-72, Cl. 263-50.000.
- Deal, Samuel Broughton; and Barch, Donald Walter, to RCA Corporation. Electron tube having tamper-detectable label attached thereto. 3,680,236, 8-1-72, Cl. 40-2.200.
- Deal, Samuel Broughton; and Barch, Donald Walter, to RCA Corporation. Method for preparing the viewing-screen structure of a cathode-ray tube. 3,703,401, 11-21-72, Cl. 117-33.5cp.
- Dean, Carl J., to Wright, Barry, Corporation. Reel sealing and storage apparatus. 3,696,935, 10-10-72, Cl. 211-13.000.
- Dean, Frank J., Jr.; and Thompson, Neil J., to Tempmaster Corporation. Air vane and fire damper for integrated ceiling systems and the like. 3,687,055, 8-29-72, Cl. 98-40.000.
- Dean, George A.: See—
Miller, Alfred H.; and Dean, George A., 3,679,076.
- Dean, George A., to Libbey-Owens-Ford Company. Sheet handling apparatus. 3,682,329, 8-8-72, Cl. 214-7.000.
- Dean, George A., to Dean Research Corporation. Transporting system. 3,698,577, 10-17-72, Cl. 214-38.0ba.
- Dean Hubert W.; and Hovey, Almon G., to Hodgson, Peter. Glowing bouncing putty. 3,634,280, 1-11-72, Cl. 252-301.3.
- Dean, Hubert William; and Hovey, Almon G. Glowing bouncing putty. 3,661,790, 5-9-72, Cl. 252-301.3.
- Dean, James T.: See—
Brooks, Warren B.; Dean, James T.; Manning, William F.; Rupp, Lewis A.; and Talley, William A., Jr., 3,682,242.
- Dean, John W., to General Electric Company. Block copolymers of silicones with vinyl pyridine. 3,673,272, 6-27-72, Cl. 260-827.000.
- Dean, Johnny C.; and Colling, Philip M., to Petro-Tex Chemical Corporation. Oxidative dehydrogenation of organic compounds. 3,686,347, 8-22-72, Cl. 260-680.00e.
- Dean, Karl C.: See—
Staker, Walter L.; Dean, Karl C.; and Chindgren, Carl J., 3,660,022.
- Dean, Malcolm Leonard Stephen. Electrically heated dispenser for granular substances. 3,666,914, 5-30-72, Cl. 219-214.
- Dean, Michael R., to Baker Oil Tools, Inc. Retrievable well packer. 3,667,543, 6-6-72, Cl. 166-125.000.
- Dean, Paul R., II, to Goodyear Tire & Rubber Company, The. Stabilization of relatively saturated polymers with phenolic stabilizers and sulfur-containing compounds. 3,652,495, 3-28-72, Cl. 260-45.85.
- Dean, Peter Mervyn: See—
Sear, Reginald; and Dean, Peter Mervyn, 3,655,973.
- Dean, Ralph, Jr., to General Motors Corporation. Vehicle accelerator pedal. 3,641,837, 2-15-72, Cl. 74-513.
- Dean, Raymond Ernest: See—
Sharp, John Alan; and Dean, Raymond Ernest, 3,642,912.
- Dean, Raymond Harkless, to RCA Corporation. Semiconductor device. 3,706,014, 12-12-72, Cl. 317-234.00r.
- Dean Research Corporation: See—
Dean, George A., 3,698,577.
- Dean, Robert B.: See—
Hoyt, Howard Eugene; and Dean, Robert B., 3,644,269.
- Dean, Robert C., Jr.: See—
Couch, Richard W., Jr.; and Dean, Robert C., Jr., 3,641,308.
- Dean, Sheldon W., to Olin Corporation. Coated substrate or article having a low friction surface resistant to dewetting at elevated temperatures and process of forming. 3,681,019, 8-1-72, Cl. 29-195.000.
- Dean, Sheldon W., to Olin Corporation. Articles having a low friction surface and process of making same. 3,698,932, 10-17-72, Cl. 29-195.00r.
- Dean, Sheldon W., Jr.: See—
Copson, Harry R.; and Dean, Sheldon W., Jr., 3,645,726.
- Dean, Thomas Stanley. Recovering alkali metal salts from cement kiln gases by the steps of condensing leaching and crystallizing. 3,647,395, 3-7-72, Cl. 23-299.
- Dean, Warren E.; and Dorsett, Charles M., to PPG Industries, Inc. Mercury removal. 3,674,428, 7-4-72, Cl. 23-134.000.
- Dean, William H. Truck bed cover. 3,704,039, 11-28-72, Cl. 296-137.00b.
- Deane, Chester A. Closure construction. 3,693,695, 9-26-72, Cl. 160-243.000.
- Deane, Clifford T., to Vortex Air Corporation. Air pollution control device. 3,693,326, 9-26-72, Cl. 55-230.000.
- Deans, David Robert, to Imperial Chemical Industries Limited. Sample injection in gas chromatography. 3,668,834, 6-13-72, Cl. 55-67.000.
- Deans, Howard; and Sager, Thomas B., to Ultrasonic Systems, Inc., mesne. Method for remotely sealing plastics using ultrasonic energy. 3,669,780, 6-13-72, Cl. 156-73.000.
- Dear, Robert E. A.: See—
Gilbert, Everett E.; and Dear, Robert E. A., 3,655,786.
- Dear, Robert E. A.; and Gilbert, Everett E., to Allied Chemical Corporation. Bis (trifluoromethylthio) fluorobutanes. 3,646,221, 2-29-72, Cl. 260-609.
- Dear, Terrence A., to PPG Industries, Inc. Apparatus for controlling glass fractures. 3,694,181, 9-26-72, Cl. 65-158.000.
- Dear, Terrence A., to PPG Industries, Inc. Method of severing glass. 3,695,497, 10-3-72, Cl. 225-2.000.
- Dear, Terrence A., to PPG Industries, Inc. Non-contact thermal cutting. 3,695,498, 10-3-72, Cl. 225-1.000.
- Dear, William Noel; Ramsay, James Ian; and Thomson, Alexander, to Albright & Wilson Limited. Manufacture of sodium or potassium tripolyphosphate. 3,684,436, 8-15-72, Cl. 23-106.000.
- Dearborn Glass Company: See—
Morgan, Harold R., 3,659,582.
- Deardorff, Donald L.: See—
Fath, Joseph; and Deardorff, Donald L., 3,669,995.
- Deardorff, Lawrence R., to Owens-Corning Fiberglass Corporation. Tightly bound bundle of filaments and method of producing same. 3,644,866, 2-22-72, Cl. 338-214.
- Dearman, Timothy C. Pipe clamping apparatus. 3,653,574, 4-4-72, Cl. 228-49.
- Dearry, Paul A.: See—
McNeal, Donald A.; and Dearry, Paul A., 3,665,954.
- Dearth, Robert L.; and Lindle, Rodger M., to Sugardale Foods, Inc. Manufacture of sausage products. 3,692,539, 9-19-72, Cl. 99-109.000.
- Deasy, Raymond E., to Illinois Tool Works Inc. Container package. 3,700,275, 10-24-72, Cl. 294-87.200.
- Deaton, David W., to Ahldea Corporation. Liquid flow regulator and monitor for corporeal infusion systems and method of using the same. 3,659,629, 5-2-72, Cl. 137-551.
- Deaton, David W., to Ahldea Corporation. Sterile liquid entraining system. 3,682,168, 8-8-72, Cl. 128-194.000.
- Deaton, Homer W.; Gould, Robert R., Jr.; and Smith, Roy R., to General Motors Corporation. Ceramic-top cooking assembly fracture detector. 3,636,309, 1-18-72, Cl. 219-452.
- Deaton, Irving F., to CPC International Inc. Process for the production of a defatted starch conversion product. 3,695,933, 10-3-72, Cl. 127-32.000.
- Deaton, James M., to Vendmart, Inc. Conveying rod for vending machines. 3,690,510, 9-12-72, Cl. 221-75.000.
- Deaton, Thomas Michael, to Otis Engineering Corporation. Well flow controlling systems, methods and apparatus. 3,664,427, 5-23-72, Cl. 166-313.000.
- Debaigt, Jean, to Compagnie Generale d'Entreprises Electriques. Synoptic control and signalling board. 3,636,558, 1-18-72, Cl. 340-381.
- Debaigt, Jean, to Compagnie Generale d'Entreprises Electriques. Modular electrical connector assembly. 3,656,086, 4-11-72, Cl. 339-92.
- Debarre, Francois; and Poiget, Gilbert, to Rhone-Poulenc S.A. Pyroline derivatives. 3,632,605, 1-4-72, Cl. 260-326.5.
- Debat, Jacques, to Institut de Recherches Chimiques et Biologiques Appliquees, I.R.C.E.B.A., mesne. Promotion of analgesic and sedative action with 5-bromoisatin. 3,659,011, 4-25-72, Cl. 424-274.
- Debavan Manufacturing Company, Incorporated: See—
Ankeny, Jay H.; Foddy, Harold W.; and Kessler, Dayton F., 3,682,044.
- Debbas, Samir Costandi: See—
Baxter, James Fletcher; and Debbas, Samir Costandi, 3,655,305.
- Deber, Ludwig: See—
Rohr, Otto; Deber, Ludwig; Dittrich, Volker; and Siegle, Heinz, 3,652,770.
- DeBoer, Clarence: See—
Bergy, Malcolm E.; and DeBoer, Clarence, 3,632,768.
- DeBoer, Douwe Mindert: See—
Steinmetz, Anthony; and DeBoer, Douwe Mindert, 3,663,777.
- deBoerr, Derek Peter, to Crane Canada Limited. Underdrain. 3,648,731, 3-14-72, Cl. 137-550.
- Deboeur, Francois Fernand; and Plumhans, Paul Jean, to Uniroyal Aktiengesellschaft. Mold for vulcanizing pre-shaped pneumatic tires. 3,703,346, 11-21-72, Cl. 425-46.000.
- Debonnet, Alfons, to Makropatent Trust reg., mesne. Device for producing nonwoven carpets. 3,657,052, 4-18-72, Cl. 156-435.
- Debono, Manuel, to Lilly, Eli, and Company. Method for recovery of cephaloridine. 3,687,947, 8-29-72, Cl. 260-243.00c.
- Deboo, Gordon J.: See—
Burrous, Clifford N.; and Deboo, Gordon J., 3,705,316.
- Deborde, Albert, to Ateliers Diderichs. Device for the recovery and removal of a false selvage in a shuttleless loom. 3,670,779, 6-20-72, Cl. 139-304.000.
- Debreczeni, Eugene J.; and Kushlefsky, Bernard G., to M & T Chemicals Inc. Preparation of diatannones. 3,699,138, 10-17-72, Cl. 260-429.700.
- Debrun, Frank E., Jr., to Polaroid Corporation. Permanent laminate photographic film. 3,681,072, 8-1-72, Cl. 96-29.000.
- Debrun, Frank E., Jr., to Polaroid Corporation. Permanent laminate photographic products and processes. 3,681,073, 8-1-72, Cl. 96-29.000.

deBruyn Kops, Paul F., Jr.; and Rivers, Victor J., to Pemko Manufacturing Co. Double door astragal. 3,653,155, 4-4-72, Cl. 49-313.

Debs, Victor, to Levolor Loretz, Inc. Venetian blind and installation. 3,703,920, 11-28-72, Cl. 160-107.000.

Debue, Marlene. Adjustable hair curler. 3,683,940, 8-15-72, Cl. 132-39.000.

Debus, Gerhard: See—
Merk, Fritz; Debus, Gerhard; and Muller, Herbert Ewald, 3,645,823.

DEC International, Inc.: See—
Peters, Norman J., 3,662,464.

Decalock Limited: See—
Armstrong, Richard James, 3,655,230.

DeCardi, Pedro; Taylor, Carl S.; and Roberts, Geoffrey L., to McDonnell Douglas Corporation. Anti-hydroplaning device. 3,680,885, 8-1-72, Cl. 280-150.000.

Decarie, Maurice: See—
Lamarque, Denis; and Decarie, Maurice, 3,636,021.

deCarpentier, Peiter, to Shell Oil Company. Partially hydrolyzed terpolymers of dissimilar vinyl esters and an unsaturated carboxylic acid and process for making them. 3,644,308, 2-22-72, Cl. 260-80.75.

DeCasperis, Anthony J., to Pfizer Inc. Process for stabilizing fowl red blood cells. 3,640,896, 2-8-72, Cl. 252-408.

Decatur Foundry & Machine Co., Inc.: See—
Johnston, Douglas, 3,670,962.

Decatur Iron and Steel Company: See—
Lentz, Tommy L.; and Terry, Alton L., 3,675,369.

Decca Limited: See—
Croskery, William Fletcher, 3,634,159.
Hendley, Dennis Alfred, 3,673,977.
Hendley, Dennis Alfred; and Boersma, Sipko L., 3,699,558.
Hughes, David Geoffrey, 3,705,403.
Hughes, David Geoffrey, 3,706,995.

Dechenaux, Victor Louis: See—
Gerbier, Gerard Marcel; and Dechenaux, Victor Louis, 3,655,446.
Gerbier, Gerard Marcel; and Dechenaux, Victor Louis, 3,661,648.

Dechene, Walter; Rothe, Herbert; and Salmen, Fritz, to Stahlwerke Sudwestfalen AG. Rolling method for wire and other rod-shaped rolling stock. 3,683,662, 8-15-72, Cl. 72-235.000.

Dechenne, Roger: See—
Boel, Michel; and Dechenne, Roger, 3,676,413.

DeCholonoky, Tibor, Jr.: See—
Miller, Marvin; Miller, Robert P.; and DeCholonoky, Tibor, Jr., 3,694,240.

DeChristopher, Eugene. Combination mobile toy. 3,660,927, 5-9-72, Cl. 46-17.

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McPherson, Frank H.; Lowmes, Irvin S., Jr.; and Richardson, Thomas L., 3,706,074.
Petusky, Neil J., 3,675,172.

Deck, Harold R.: See—
Gray, Roy A.; and Deck, Harold R., 3,660,346.

Deck, Lester T.; and Kupsky, Fredrick E., 1/2 to United States Gypsum Company and 1/2 to Stanray Corporation, mesne. Reticulated bar grating. 3,672,111, 6-27-72, Cl. 52-666.000.

Deck, Philip E., to Telex Computer Products, Inc. Pneumatic apparatus for incrementally advancing tape. 3,648,912, 3-14-72, Cl. 226-97.

Deckard, Charles E., to Wyle Laboratories. Flexible support structure for vibration testing. 3,691,822, 9-19-72, Cl. 73-71.600.

Deckas, Peter C., to Dexon, Inc. Clean air work station. 3,703,801, 11-28-72, Cl. 55-385.000.

Deckel, Friedrich, Prazisions Meckanik & Maschinenbau: See—
Heinelt, Roland, 3,641,710.

Decker, Charles L.; and Tuttle, Edward G., to General Electric Company. Unitary insulation and termination member. 3,670,277, 6-13-72, Cl. 336-192.000.

Decker, Cloyd E., to Robertshaw Controls Company. Control device and method for calibrating the same or the like. 3,668,592, 6-6-72, Cl. 337-319.000.

Decker, Donald L., to Stauffer Chemical Company. Process of forming upholstery. 3,652,359, 3-28-72, Cl. 156-224.

Decker, George E., to Monsanto Company. Oscillating disk rheometer. 3,681,980, 8-8-72, Cl. 73-101.000.

Decker, Hanns; Hurtmanns, Heinz; and Stockmann, Helmut, to Klockner-Humboldt-Deutz Aktiengesellschaft. Lubricant feed means for gyrator crushers. 3,692,249, 9-19-72, Cl. 241-215.000.

Decker, Harvey David; McGraw, James Edward; and Barbour, Richard R., to Reynolds Metals Company. Reduction cell control system. 3,632,488, 1-4-72, Cl. 204-67.

Decker, Herbert: See—
Waldenburger, Hermann; and Decker, Herbert, 3,647,040.

Decker, Herbert; and Waldenburger, Hermann, to Triumph Werke Nurnberg AG. Type head drive. 3,674,126, 7-4-72, Cl. 197-55.000.

Decker, Jacob, to Cincinnati Milacron, Inc. Balancing device for rotating members. 3,702,082, 11-7-72, Cl. 74-573.000.

Decker, Jacob, to Cincinnati Milacron, Inc. Round gib for machine slide. 3,702,716, 11-14-72, Cl. 308-3.00a.

Decker, John J.; and Kerstetter, Donald R., to GTE Sylvania Incorporated. Doubled layer heater coating for electron discharge device. 3,691,421, 9-12-72, Cl. 313-345.000.

Decker, Martin; Stechl, Hanns-Helge; Palm, Christof; and Buerger, Gert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of aromatic nitriles. 3,637,797, 1-25-72, Cl. 260-465.

Decker, Martin; Schmidt, Joseph; Hoffmann, Herwig; and Pistor, Hans Joachim, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Manufacture of adiponitrile. 3,671,566, 6-20-72, Cl. 260-465.200.

Decker, Robert M.; Patena, Michael D.; and White, Thomas G. Fault locating system for electrical circuits. 3,686,531, 8-22-72, Cl. 317-27.00r.

Decker, Robert W.: See—
Berg, Robert A.; Decker, Robert W.; Hart, Donald R.; and Weber, David J., 3,645,119.

Decker, Robert W.; and Mole, Robert F., to Agricultural Specialty Co., Inc. Article transfer apparatus. 3,690,468, 9-12-72, Cl. 212-84.000.

Decker, Thomas K., to Forma Scientific, Inc. Proportioning control unit. 3,637,006, 1-25-72, Cl. 165-26.

Decker, William E.: See—
Hampe, Walter R.; Simon, Albert B.; Hampton, William H.; and Decker, William E., 3,692,127.

Decker, Wilton K.; and Van De Velde, Valere F., said Decker assor. to said Van De Velde, Valere. Warning light housing. 3,697,738, 10-10-72, Cl. 240-10.600.

Deckert, Fred W.; and Matson, Gale W., to Minnesota Mining and Manufacturing Company. Sealant having epoxide encapsulated by aminoplast shell and polymeric binder. 3,642,937, 2-15-72, Cl. 260-834.

Dectronic, Inc.: See—
Doble, Henry P., Jr.; and Langelan, Harry C., 3,705,056.

Deckys, Jonas. Folding compartmented file. 3,643,858, 2-22-72, Cl. 229-72.

Deckys, Jonas. Folding box. 3,658,234, 4-25-72, Cl. 229-31.

Declaye, Joseph: See—
Brichard, Edgard; and Declaye, Joseph, 3,669,640.

DeCoene, Frans J., to Clayson, N.V. Grain tank unloading device for combines. 3,669,291, 6-13-72, Cl. 214-519.000.

DeCoster, Lloyd D. Bias voltage supply. 3,665,334, 5-23-72, Cl. 330-40.000.

Decot, Claude Jean Maurice; and Darmagnac, Tarbes Jean Eugene, to Etat Francois represente par le Ministre d'Etat charge de la Defense National Delegation Ministerielle pour la Porte d'Issy. Device for the simultaneous coupling and uncoupling of a plurality of fluid pipelines. 3,704,989, 12-5-72, Cl. 137-595.000.

Decowska, Zofia: See—
Zmyslowski, Wojciech; Decowska, Zofia; Gawronski, Ryszard; Borejko, Zdzislaw; Decowski, Marek; and Wirski, Janusz, 3,657,646.

Decowski, Marek: See—
Zmyslowski, Wojciech; Decowska, Zofia; Gawronski, Ryszard; Borejko, Zdzislaw; Decowski, Marek; and Wirski, Janusz, 3,657,646.

DeCremoux, Baudoin; and Leclerc, Pierre, to Thomson-CSF. Light modulator. 3,656,836, 4-18-72, Cl. 350-160.

Decroix, Jean, to Uguine Kuhlmann. Process for preparing and treating austenitic stainless steels. 3,649,376, 3-14-72, Cl. 148-12.

Decrop, Jean: See—
Cahour, Paul; Decrop, Jean; Holder, Jean; and Ledac, Alain, 3,666,419.

Decubber, Maurice: See—
Serafin, Marian; and Decubber, Maurice, 3,658,247.

DeCuir, George L.: See—
Driscoll, Richard E.; and DeCuir, George L., 3,674,431.

Decupper, Jean A., to Detec S.A. Apparatus for purifying and sterilizing premises. 3,674,421, 7-4-72, Cl. 21-74.00r.

Decursi, Giorgio; De Paa, Jonathan; D'Urbino, Donato; and Lomazzi, Paolo. Modular unit element for furniture. 3,672,723, 6-27-72, Cl. 297-440.000.

Decuyper, Jean-Claude, to Compagnie Generale d'Electricite. Transition device between coaxial and microstrip lines. 3,662,318, 5-9-72, Cl. 339-17.

Dede, Joseph B., Jr.: See—
Horowitz, Frederic; and Dede, Joseph B., Jr., 3,701,743.
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Dederich, William J.; and Scar, Howard S., to Synanon Foundation, Inc. Skill game. 3,650,532, 3-21-72, Cl. 273-1.

Dederra, Carl-Helmut; and Butter, Karl, to Bolkow Gesellschaft mit beschränkter Haftung. Structural element construction and method of manufacturing. 3,690,103, 9-12-72, Cl. 60-267.000.

Dederra, Carl-Helmut; and Butter, Karl. Method of fabricating a hollow structure having cooling channels. 3,692,637, 9-19-72, Cl. 204-9.000.

Dediemar, Ronald B.; and Schuman, Leroy J., to Barber-Greene Company. Hydraulic adjustment means for roll crushing apparatus. 3,700,182, 10-24-72, Cl. 241-230.000.

Dedieu, Guy; and Defour, Claude. Citrates of 5-(2-dimethylaminoethoxy)carvacrol acetate. 3,681,437, 8-1-72, Cl. 260-479.00r.

Dedoes, Arnold A. Draw bar and hitch connection for tractor drawn implement. 3,643,746, 2-22-72, Cl. 172-445.

Dedoes, Arnold A. Soil coring apparatus assembly. 3,650,332, 3-21-72, Cl. 172-22.

Dedrick, Dallas S., to Weyerhaeuser Company. Method for drying wood. 3,675,336, 7-11-72, Cl. 34-9.500.

Dee, Colin W., to Aerostatic Limited. Co-axial unit. 3,635,577, 1-18-72, Cl. 415-79.

Dee, Colin W., to Aerostatic Limited. Fluid bearings. 3,647,272, 3-7-72, Cl. 308-9.

Dee, Colin W., to Horstmann Gear Company Limited, The. Bearing member. 3,685,875, 8-22-72, Cl. 308-9.000.

Dee, Colin W. Fluid pad bearing. 3,687,506, 8-29-72, Cl. 308-9.000.

Dee, Colin W., to Horstmann Gear Company Limited, The. Spherical bearing. 3,705,751, 12-12-72, Cl. 308-9.000.

Dee, Kenneth Herbert William: See—
Huber, Manfred; Klimek, Norbert; and Dee, Kenneth Herbert William, 3,673,956.

Dee, Roger, to National Research Development Corporation. Elbow joint prosthesis. 3,656,186, 4-18-72, Cl. 3-1.

Dee, William C.; and Sylvester, David, to United States of America, Army. Multilobar injector apparatus. 3,691,952, 9-19-72, Cl. 102-6.000.

Deeds, Douglas. Composite structural core assembly. 3,640,798, 2-8-72, Cl. 161-68.

Deeds, Douglas; and Rosengrant, Barry L., to Architectural Fiberglass, Inc. Article of furniture. 3,655,253, 4-11-72, Cl. 312-194.

Deeg, Emil W.; and Graf, Robert E., to American Optical Corporation. Optical glasses having improved spectral transmission produced from mercury nitrate containing glass batches. 3,674,530, 7-4-72, Cl. 106-47.00q.

Deeg, Emil W.; and Young, Robert W., to American Optical Corporation. Method for producing phosphate optical glasses. 3,694,179, 9-26-72, Cl. 65-136.000.

Deeg, Karl: See—
Engelsmann, Dieter; Hackenberg, Hubert; and Deeg, Karl, 3,706,268.

Deeke, Heinrich E., to National Tool & Die Corporation. Coupling assembly. 3,700,381, 10-24-72, Cl. 4-288.000.

Deeley, Charles William: See—
Schmitt, Joseph Michael; and Deeley, Charles William, 3,632,676.

Deelman, Gerardus Jacobus, to Olvis Smeltzekerijngfabriek N.V. Fuses. 3,639,874, 2-1-72, Cl. 337-185.

Deem, Brian C.; and Herold, Guenther K., to Bendix-Westinghouse Automotive Air Brake Company. Brake balancing valve with brake tape compensating means. 3,645,585, 2-29-72, Cl. 303-22.

Deep Oil Technology, Inc.: See—
Falkner, Chester B., 3,657,681.
Falkner, Chester B., Jr., 3,633,667.
Horton, Edward E., 3,703,207.
Walker, Raymond W., 3,668,949.
Walker, Raymond W., 3,675,514.

Deepsea Ventures, Inc.: See—
Garland, Charles; Victory, James J.; and Latimer, John P., 3,666,098.

Deer, John A., Jr., to Comstock & Westcott, Inc. Spectral analysis using a modulating mask transmitting selected spectral lines and reference bands. 3,700,332, 10-24-72, Cl. 356-97.000.

Deere & Company: See—
Barth, Hubert; and Hauk, Klaus, 3,635,493.
Barth, Hubert; and Hauk, Klaus, 3,644,002.
Bishop, Robert James; and Wanie, Lee J., 3,633,699.
Brown, Clarence Edward; and Lemmon, Norman Frederick, 3,656,803.
Carlson, Robert Philip; and Oelschlaeger, George Frederick, 3,662,653.
Denison, Henry Hoyt, 3,643,666.
Denison, Henry Hoyt; and Harrington, Roy Edwards, 3,662,763.
Egli, John Alfred, 3,674,105.
Essex, Duane Arnold, 3,700,038.
Essex, Duane Arnold; Haverdink, Virgil Dean; and Hill, Donald Allan, 3,700,039.
Freiburger, Thomas William, 3,633,436.
Funk, Welker W., 3,667,796.
Hayes, John Burch, 3,646,373.
Head, Glenn Dale; and Hadley, Howard C., 3,646,732.
Hemken, Peter Chauncey, 3,656,578.
Hennen, John Joseph, 3,701,239.
Hentrich, Robert Dale; Esbeck, Howard Christian; and Arnold, Loren Glenn, 3,700,037.
Herscovici, Saul, 3,680,587.
Holzhfi, Don Earl, 3,673,772.
Hook, Richard Wayne; and Haverdink, Virgil Dean, 3,663,032.
Hook, Richard Wayne; and Zaun, Richard David, 3,695,360.
Hubbard, Arthur Lowell; and Sanderson, Leon Franklin, 3,643,407.

Hunger, Richard H.; and Gilbert, LeLand Glen, 3,705,656.

Hunter, George Dwight; and Hook, Richard Wayne, 3,666,284.

Johannsen, Bruno Bernhard; and Cox, Robert Earl, 3,656,556.

Jones, Frank D. Lloyd, 3,673,775.

Jones, William Archibald, 3,643,409.

Kress, James Henry, 3,693,507.

Kulak, John; and Kirkpatrick, Kenneth Lawrence, 3,643,408.

Lemons, David Forrest; Marquart, Gordon Le Roy; and Herscovici, Saul, 3,701,393.

Malm, Donald Irwin; Christie, Craig Eugene; and Rojohn, Claire Eugene, 3,656,799.

Markham, David Rees, 3,635,271.

Markham, David Rees, 3,677,316.

Matthews, Charles Woodrow; and Arnold, Loren Glenn, 3,643,748.

McMullen, Larry Gene, 3,643,904.

Miley, Richard Erwin; and Meylink, John Gary, 3,643,636.

Murphy, Kenneth Earl; Eubank William Marion; and Williams, Lamar, 3,667,776.

Nelson, Roger John, 3,674,095.

Nelson, Roger John, 3,705,493.

Patterson, Roger Lee; and Brodie, Bryan William, 3,680,742.

Patterson, Roger Lee; and Ventresca, Mario, 3,700,042.

Patterson, Roger Lee; and Ventresca, Mario, 3,701,385.

Patterson, Roger Lee; and Isachsen, Henning, 3,706,345.

Peak, Charles Benjamin, 3,699,753.

Pierrot, Victor Charles, III, 3,693,679.

Priest, Melvin E., 3,701,218.

Rettig, Vernon Eugene; Maust, John Edward, Jr.; and Shindelar, Joseph John, 3,645,074.

Ross, Brian Francis; and Spicer, Dalton Harold, 3,699,751.

Roth, Wolfgang, 3,677,142.

Schletzbaum, John Wayne; and Rodeghiero, Reno Antonio, 3,667,496.

Shepherd, Leonard Laverne; and Pierrot, Victor Charles, III, 3,692,134.

Skrumme, Arnold Burton; Lindstrom, Harold Richard; Henningsson, Etlar August; Beldin, Royal Lowell; Sorlie, Donald Thomas; and Eckert, Elmer Richard, 3,667,734.

Soterpoulos, Gust, 3,680,291.

Sullivan, James Franklin, 3,700,043.

Taverne, Jules L., 3,680,290.

Termon, Charles George, 3,680,651.

Tunderman, William, 3,659,700.

Vogelaar, Bernard Francis; Doering, James Peter; and Pasturczak, Felix Stanley, 3,636,684.

Weakly, Martin Earle, 3,643,826.

Whisler, Edwin Lee, 3,690,720.

Wilkes, Raymond Steele, 3,643,786.

Wittren, Richard Arthur; Meysenburg, Raymond Richard; and Tweedy, Robert Hugh, 3,667,504.

Wood, Charles Drury, III; Olsen, Sydney, Alvin; and Potter, Jimmie Clinton, 3,680,287.

Yoder, Alfred Dean; and Roth, Robert Richard, 3,698,488.

Deering, Charles S., to E-System, Inc. Pulse modulation motor control. 3,700,987, 10-24-72, Cl. 318-227.000.

Deering Milliken Research Corporation: See—
Berci, Charles N., 3,661,692.
Bolinger, Edgar Dare; and Machell, Greville, 3,634,021.
Bolles, Milton M., 3,649,411.
Boyd, Joe T.; and Jacumin, Emile, Jr., 3,632,421.
Cain, James P.; and Miller, James M., 3,634,126.
Cain, James P.; and Cross, John H., 3,673,611.
Carroll, Clifford C., 3,681,129.
Cogan, Jerry A., Jr., 3,663,262.
Cotton, Grady L., 3,649,165.
Crabtree, Orville R.; and Thomas, Manuel A., 3,649,344.
Dominick, Joseph W.; and Warthen, William P., 3,632,383.
Eaddy, William P., 3,635,749.
Engels, Walter, 3,667,092.
Eschenbach, Paul W., 3,675,864.
Eschenbach, Paul W., 3,675,865.
Farmer, Larry B., 3,687,605.
Foster, Larry R.; and Cogan, Jerry A., Jr., 3,634,131.
Gagarine, Dmitry M., 3,674,548.
Gale, Donald J., 3,635,915.
Gale, Donald J., 3,658,458.
Gordon, David E., 3,669,779.
Greene, Charles W., 3,642,532.
Habib, Emile E., 3,653,955.
Hagley, Samuel J., Jr., 3,681,130.
Ingham, Robert M., Jr., 3,636,695.
Ingham, Robert M., Jr., 3,670,367.
Johnson, Ralph A., 3,638,290.
King, Herbert R., 3,695,228.
Klein, Norman E., 3,646,647.
Klein, Norman E., 3,674,584.
Klein, Norman E., 3,703,154.
Klein, Norman E., 3,706,623.
Kuhn, Hans H., 3,632,420.
Lock, Michael V., 3,703,351.

- Machell, Greville, 3,652,212.
 Mienstaedt, Robert, 3,674,993.
 Otto, Wolfgang Karl Ferdinand, 3,674,417.
 Pearce, Larry N., 3,702,492.
 Powell, Robert H., 3,635,258.
 Rollins, William H., 3,655,327.
 Sanders, Grady H., 3,635,010.
 Scarborough, Alexander A., 3,695,926.
 Short, Joe T., 3,656,207.
 Sink, James A., Jr.; and Watson, Richard J., 3,671,170.
 Stark, Daniel C., 3,669,818.
 Tisdale, Alfonso, 3,640,315.
 Varner, George C., 3,674,079.
 Warthen, William P., 3,655,141.
 Young, William O., Jr.; and Quattlebaum, Walter J., 3,675,836.
 Young, William O., Jr.; and Quattlebaum, Walter J., 3,676,251.
 Young, William O., Jr., 3,702,654.
 Young, William O., Jr.; and Quattlebaum, Walter J., 3,707,420.
 Deese, Franklin A. Rope jumping device. 3,633,925, 1-11-72, Cl. 272-75.
 Deeter, Paul E. Mounting frame assembly for all terrain vehicle. 3,688,847, 9-5-72, Cl. 172-804.000.
 Deex, Oliver de S.; and Fallwell, William F., Jr., to Monsanto Company. Terpolymer of an olefin, vinyl monomer and a partial ester of an unsaturated acid anhydride with an ethoxylated alkyl alcohol. 3,637,566, 1-25-72, Cl. 260-29.6.
 Defago, Raymond; Litzler, Alfred; Hertig, Jean; Angliker, Hans-Joerg; and Liechti, Hans Wilhelm, to Ciba Limited. Transfer printing. 3,632,291, 1-4-72, Cl. 8-2.5.
 DeFeo, Richard J.: See—
 Cahn, Robert P.; DeFeo, Richard J.; and Taylor, James H., Jr., 3,637,888.
 Long, Robert B.; Caruso, Fred A.; DeFeo, Richard J.; and Walker, David G., 3,651,159.
 Deffner, John F., to Gulf Research & Development Company. 2,6,7-Trioxabicyclo[2.2.2]octane compounds. 3,686,224, 8-22-72, Cl. 260-340.700.
 Deffner, John F., to Gulf Research & Development Company. Insecticidal compositions containing 2,6,7-trioxabicyclo 2.2.2 octane compounds. 3,706,836, 12-19-72, Cl. 424-297.000.
 Defibrator Aktiebolag: See—
 Reinhall, Rolf Bertil, 3,635,643.
 Reinhall, Rolf Bertil, 3,681,192.
 Reinhall, Rolf Bertil, 3,682,444.
 Reinhall, Rolf Bertil; and Vardheim, Steiner, 3,689,347.
 Defives, Daniel: See—
 Avrillon, Rene; and Defives, Daniel, 3,662,014.
 Deflorin, Alberto: See—
 Berger, Alfred; Abel, Heinz; and Deflorin, Alberto, 3,681,128.
 Toepfl, Rosemarie; Abel, Heinz; Maeder, Arthur; and Deflorin, Alberto, 3,649,575.
 Deflorin, Alberto; Abel, Heinz Reinach; Berger, Alfred; Casty, Richard; and Toepfl, Rosemarie, to Ciba Limited. Preparations of polyaddition products, processes for their manufacture and use. 3,647,728, 3-7-72, Cl. 260-18.
 Defontenay, Paul, to Redex Societe Anonyme. Apparatus for producing intermittent motion. 3,656,363, 4-18-72, Cl. 74-394.
 DeForest, William S.; Heap, Richard T.; Widmont, Joseph C.; and Zagorin, Harold, to North American Rockwell Corporation. Method for coating metals or insulating substrates having a vitreous binder. 3,666,639, 5-30-72, Cl. 204-38.00c.
 Defour, Claude: See—
 Dedieu, Guy; and Defour, Claude, 3,681,437.
 DeFreitas, Waldemar Teixeira. Bird scare cannon with ball recovery. 3,633,560, 1-11-72, Cl. 124-11.
 Dega, Fred W., to General Motors Corporation. Fluidic detection device. 3,662,704, 5-16-72, Cl. 116-70.
 Dega, Fred W., to General Motors Corporation. Fluidic system for evaluating physical characteristics. 3,670,560, 6-20-72, Cl. 73-37.000.
 Dega, Robert L.: See—
 Reinhart, Henry F.; and Dega, Robert L., 3,697,202.
 Dega, Robert L., to General Motors Corporation. Precision molding apparatus. 3,647,337, 3-7-72, Cl. 425-242.
 DeGarab, Giorgio Olah; and Corfiati, Domenico, to Montecatini Edison S.p.A. Apparatus for supporting electrodes, particularly suited for suspended electrodes used in multicell furnaces for the production of aluminum. 3,634,224, 1-11-72, Cl. 204-297.
 Degel, Josef: See—
 Karweil, Joachim; and Degel, Josef, 3,700,563.
 DeGelder, Jacob: See—
 Baginski, Albert R.; Benson, John T.; DeGelder, Jacob; and Marason, Gabriel, Jr., 3,645,037.
 DeGelleke, Gerrit: See—
 Aaron, Charles; Mount, Robert E.; and DeGelleke, Gerrit, 3,680,804.
 DeGelleke, Gerrit; and Bush, Robert E., to Cameron Machine Company. Apparatus for drilling drive pin holes in rewind roll cores. 3,635,570, 1-18-72, Cl. 408-43.
 DeGelleke, Gerrit; and Bush, Robert E., to Midland-Ross Corporation. Rewinding apparatus. 3,682,031, 8-8-72, Cl. 83-433.000.
 Degen, Bruno; Goller, Heinz; Kniege, Wilfried; Noll, Walter; and Buchner, Werner. Curable polyorganosiloxane elastomers and process for curing same. 3,692,732, 9-19-72, Cl. 260-37.0sb.
 Degen, Donald S.: See—
 Perlman, David E.; and Degen, Donald S., 3,681,745.
 Degen, Joseph F.: See—
 Gaffney, Francis J.; Degen, Joseph F.; and Clark, Gerald F., 3,673,382.
 Degen, Ludwig: See—
 Massarani, Elena; Nardi, Dante; and Degen, Ludwig, 3,647,879.
 Degener, Eberhart: See—
 Golitz, Hans Dietrich; Degener, Eberhart; Oertel, Gunter; Schmelzer, Hans-Georg; and Simmler, Walter, 3,657,303.
 Golitz, Hans Dietrich; Degener, Eberhart; Oertel, Gunter; Schmelzer, Hans-Georg; and Simmler, Walter, 3,676,478.
 Schmelzer, Hans-Georg; Gertel, Gunter; Degener, Eberhart; and Dahm, Manfred, 3,644,490.
 Degenfelder, Roy C.: See—
 Jenkins, Ray T.; Degenfelder, Roy C.; Bieri, Leonard, Jr.; and Tetyak, John J., 3,645,272.
 Degenkolb, Robert Stephen; and Skaw, Eugene Raymond, to RCA Corporation. High Q circuits on ceramic substrates. 3,681,713, 8-1-72, Cl. 333-82.00r.
 Degenkolbe, Joachim; and Musgen, Bruno, to Huttenwerk Oberhausen AG. Fabrication of steel structures by welding. 3,674,577, 7-4-72, Cl. 148-143.000.
 Degger, Walter Wilhelmus: See—
 Tan, Sing Liong; Bartels, Mathijs Willem; and Degger, Walter Wilhelmus, 3,688,394.
 Degger, Walter Wilhelmus Johannus: See—
 Tan, Sing Liong; Bartels, Mathijs Willem; and Degger, Walter Wilhelmus Johannus, 3,665,597.
 Degginger, Edward R.: See—
 Pistilli, Donald J.; and Degginger, Edward R., 3,679,462.
 Tetenbaum, Marvin T.; and Degginger, Edward R., 3,637,838.
 Tetenbaum, Marvin T.; and Degginger, Edward R., 3,692,908.
 Degginger, Edward R., to Allied Chemical Corporation. Preparation of carbon paper. 3,649,196, 3-14-72, Cl. 23-209.4.
 Degginger, Edward R.; and Goetz, Frederick J., to Allied Chemical Corporation. Process for controlling nematodes. 3,674,878, 7-4-72, Cl. 424-330.000.
 Degginger, Edward R., to Allied Chemical Corporation. Fire retardant process comprising converging separate solutions of polyvinyl alcohol and alkali metal borate. 3,676,169, 7-11-72, Cl. 117-3.000.
 Degginger, Edward R., to Allied Chemical Corporation. Dust suppressing during mining process. 3,690,727, 9-12-72, Cl. 299-12.000.
 Degnan, Joseph F.; and Ayotte, Robert A., to General Dynamics Corporation. Multi-layer printed circuit boards and methods of making same. 3,649,475, 3-14-72, Cl. 204-15.
 Degnan, Joseph F., to General Dynamics Corporation. Method of making multilayer printed circuits. 3,654,097, 4-4-72, Cl. 204-15.
 Degnon, Julia S. Headress with improved head encircling band. 3,671,977, 6-27-72, Cl. 2-207.000.
 Degremont, Societe Generale d'Epurat et d'Assainissement: See—
 Bouchard, Jean; Frison, Roger; and Treille, Pierre, 3,655,587.
 Burriat, Jean; and Du Fort, Philippe, 3,650,948.
 Louboutin, Robert, 3,671,417.
 Deguchi, Masahiro: See—
 Yano, Osahiko; Nakamura, Takahiro; and Deguchi, Masahiro, 3,666,883.
 Deguchi, Masahiro; and Yano, Osahiko, to Matsushita Electric Industrial Co., Ltd. Running-speed control system for magnetic recording medium. 3,686,432, 8-22-72, Cl. 178-6.60p.
 Deguchi, Masahiro; and Hashirano, Masaru, to Matsushita Electric Industrial Co., Ltd. Automatic tape loading type magnetic recording and reproducing apparatus. 3,706,425, 12-19-72, Cl. 242-195.000.
 Deguchi, Seiji: See—
 Ide, Fumio; Okano, Kenji; and Deguchi, Seiji, 3,644,249.
 Ide, Fumio; Okano, Kenji; and Deguchi, Seiji, 3,644,250.
 Deguillaume, Robert: See—
 Geller, Leo; Deguillaume, Robert; and Desaulles, Pierre Antoine, 3,632,743.
 DeHaas, Gerrit G.; Clark, Leslie H.; and Lang, Charles J., to Weyerhaeuser Company. Method of treating spent pulp liquors. 3,654,353, 4-4-72, Cl. 260-527.
 DeHart, John Randle. Apparatus for feeding letter envelopes or the like. 3,647,203, 3-7-72, Cl. 271-30.
 DeHeere, Gerard Andries Scheltema; and Kingma, Rinze Veenenga, to N.V. Optische Industrie de Oude Delft. Device for compensating cylindrical distortion in panoramic aerial photographs. 3,653,307, 4-4-72, Cl. 95-12.5.
 Dehlin, Leone S.; and Howard, Vesper J. Artificial breast replacement. 3,706,104, 12-19-72, Cl. 3-36.000.
 Dehm, Henry C.; and Mellow, Dale F., to Hercules Incorporated. Process for preparation of molded propellant charges from smokeless powder and nonvolatile binders. 3,655,836, 4-11-72, Cl. 264-3.
 Dehm, Henry C., to Hercules Incorporated. Coating composition having reactive surface isocyanate groups. 3,658,763, 4-25-72, Cl. 260-77.5.
 Dehm, Henry C.; and Mellow, Dale F., to Hercules Incorporated. Method of preparing propellant charges from fibrous nitrocellulose. 3,676,533, 7-11-72, Cl. 264-3.00c.
 Dehn, Joseph W., Jr.; and Paradiso, Mary R., to Shulton, Inc. Composition for dyeing human hair. 3,661,500, 5-9-72, Cl. 8-10.
 Dehne, Axel G., to Hughes Aircraft Company. Cryogenic refrigerator cycle. 3,640,082, 2-8-72, Cl. 62-6.
 Dehne, Clarence A.: See—
 Macomber, Robert A.; and Dehne, Clarence A., 3,683,817.
 Dehne, Clarence A.; and Folsom, Harold A., to Webb, Jervis B., Company. Conveyor carrier with pivotal motion damping load suspension. 3,672,306, 6-27-72, Cl. 104-89.000.
 Dehne, Hans D., to Crane Co. Mechanical gear drive. 3,654,815, 4-11-72, Cl. 74-410.
 Dehner, Gareth A.: See—
 Berghausen, Philip E.; Dehner, Gareth A.; and Morgan, John M., Jr., 3,650,923.
 Dehner, Gareth A., to Cincinnati Milacron Inc. Spark sensing system for ECM apparatus. 3,652,440, 3-28-72, Cl. 204-228.
 Dehnert, Johannes; Grosch, Walter; and Gnad, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Monoazo dyes containing phthalimides. 3,635,939, 1-18-72, Cl. 260-152.
 Dehnert, Johannes; and Bachmann, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Metalliferous dyes. 3,661,898, 5-9-72, Cl. 260-240.
 Dehnert, Johannes, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for dyeing synthetic polyamide textiles with disazo dyestuffs. 3,672,816, 6-27-72, Cl. 8-41.00b.
 Dehnert, Johannes, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Basic indazole azo dye substituted by a sulfonamide. 3,697,501, 10-10-72, Cl. 260-163.000.
 Dehnhard, Willi. Chill casting machines. 3,670,803, 6-20-72, Cl. 164-267.000.
 DeHoff, Ronald Lee, to Vanderbilt, R. T., Company, Inc. Liquid curing agent for epoxy resins comprising a mixture of an imidazold and an aniline-formaldehyde condensate. 3,697,462, 10-10-72, Cl. 260-21.000.
 Deibel, Raymond A.; and Riester, William C., to Trico Products Corporation. Windshield wiper blade. 3,644,957, 2-29-72, Cl. 15-250.42.
 Deibert, Harold Leroy. Umbrella and umbrella tree frost cover. 3,706,160, 12-19-72, Cl. 47-21.000.
 Deibert, Max C., to Monsanto Research Corporation. Conductive carbon membrane electrode. 3,676,222, 7-11-72, Cl. 136-121.000.
 Deich, Mikhail Efimovich; Filippov, Gennady Alexeevich; Sobolev, Sergei Petrovich; and Povarov, Oleg Alexeevich. Turbopump for polyphase fluids and turbine incorporating said turbopump. 3,652,182, 3-28-72, Cl. 415-168.
 Deichen, Robert John. Optical reflector. 3,707,626, 12-26-72, Cl. 240-103.00r.
 Deichert, William George; and Lemay, Richard Ronald, to American Cyanamid Company. Impact resistant compositions comprising methyl methacrylate, diallyl phthalate and an ethylene copolymer. 3,646,164, 2-29-72, Cl. 260-878.
 Deichi Seiyaku Company, Limited: See—
 Yamamura, Yuichi; Fujii, Setsuro; Okano, Atsui; Hirata, Miyoshi; Abiko, Yasushi; Inaoka, Masato; Noroi, Reimei; Iwamoto, Mashiro; Funabashi, Shoichi; and Kaito, Takeo, 3,699,149.
 Deike, Robert F., to Cleaner Container Corporation. Convertible rail highway tractor. 3,633,514, 1-11-72, Cl. 105-26.
 Deike, Robert F., 1/4 to Chamberlain, William H. and 1/4 to Chamberlain, Anna B. Pole or post mounting for ground anchor. 3,676,965, 7-18-72, Cl. 52-98.000.
 Deike, Robert F., 1/4 to Chamberlain, William H. and 1/4 to Chamberlain, Anna B. Anchoring device. 3,680,274, 8-1-72, Cl. 52-157.000.
 Deines, John. Independently operable dual drive wheel riding power mower. 3,702,051, 11-7-72, Cl. 56-11.300.
 Deinet, Adolph J.; and Klein, David X., to Tenneco Chemicals, Inc. Process for the production of aromatic hydroxyaldehydes. 3,641,158, 2-8-72, Cl. 260-600.
 Deinet, Adolph J., to Tenneco Chemicals, Inc. Method of controlling fungi with 2-acetoxy benzonitriles. 3,683,067, 8-8-72, Cl. 424-78.000.
 Deinet, Adolph J., to Tenneco Chemicals, Inc. Methods of controlling fungi and insects with organotin nitriles. 3,683,089, 8-8-72, Cl. 424-288.000.
 Deininger, Bertram: See—
 Biesterfeld, Horst; Brennecke, Manfred; and Widmann, Sampo, 3,645,036.
 Deisch, Cecil Winston, to Bell Telephone Laboratories, Incorporated. Peak-to-peak alternating current signal detector. 3,696,253, 10-3-72, Cl. 307-235.000.
 Deisenroth, Robert J., to Excel Corporation. Method of bedding panels into frames. 3,655,854, 4-11-72, Cl. 264-134.

- Deist, Robert P., to American Home Products Corporation. Process for the production of semi-synthetic penicillin intermediate. 3,669,978, 6-13-72, Cl. 260-301.000.
 Dejneka, Tamara: See—
 Sullivan, Frank Aloysius Vincent; and Dejneka, Tamara, 3,634,313.
 DeJong, Egbert D.; Koch, Hans; and Maynard, Kenneth B., to International Business Machines Corporation. Card packaging apparatus. 3,672,118, 6-27-72, Cl. 53-59.00r.
 DeJur-Amsco Corporation: See—
 Kotler, Max; and Ravese, Frank E., 3,690,746.
 Dekeyser, Lucien, to Bennes Marrel. Gas turbine with rotary heat exchangers. 3,667,220, 6-6-72, Cl. 60-39.51.
 Dekeyser, Lucien, to Bennes Marrel. Gas turbine with variable blade distribution. 3,685,921, 8-22-72, Cl. 415-159.000.
 Dekhar, Inc.: See—
 Wahlberg, Edward John, 3,677,593.
 Dekker, Adriaan, to Tomado N.V. Clothes hanger. 3,645,427, 2-29-72, Cl. 223-96.
 Dekker, Jan: See—
 McMeekin, Samuel; and Dekker, Jan, 3,658,221.
 Dekking, Henri; and Maxey, Edwin M., to General Tire & Rubber Company, The. Method of encapsulating fillers with polymers. 3,661,620, 5-9-72, Cl. 117-62.2.
 DeKlerk, John, to Westinghouse Electric Corporation. Method of forming thin insulating films particularly for piezoelectric transducer. 3,632,439, 1-4-72, Cl. 117-215.
 DeKlerk, John, to Westinghouse Electric Corporation. Method of forming thin insulating films particularly for piezoelectric transducers. 3,655,429, 4-11-72, Cl. 117-106.
 DeKnatel, Inc.: See—
 Kurta, Leonard D., 3,636,955.
 Kurtz, Leonard; Bidwell, Robert; Mishkin, Sidney; and Hallstein, Edward, 3,683,913.
 Kurz, Leonard D.; and Shave, William H., 3,642,126.
 Del Amo Enterprises, Inc.: See—
 Harris, John L.; and Hellman, Robert W., 3,696,453.
 Del Electronics Corporation: See—
 Constable, James M., 3,678,341.
 Del Gaudio, Italo, to Texas Instruments, Incorporated. Method of making an electronic module. 3,654,695, 4-11-72, Cl. 29-593.
 Del Giudice, Frank Paul: See—
 Lundberg, Robert Dean; and Del Giudice, Frank Paul, 3,632,669.
 Lundberg, Robert Dean; and Del Giudice, Frank Paul, 3,646,170.
 Del Giudice, William F.: See—
 Schrade, Hans Christoph; Del Giudice, William F.; and Wimer, Charles W., 3,664,162.
 Del Grande, Dominic; and Erdman, Donald C., to Rat Elimination System Limited, The, mesne. Ultrasonic rat elimination system having random modulation. 3,636,559, 1-18-72, Cl. 340-384.
 Del Guercio, Louis R. M. Self propelled catheter. 3,665,928, 5-30-72, Cl. 128-350.
 Del Mar Engineering Laboratories: See—
 Hesen, Joseph A., 3,703,284.
 Hesen, Joseph Alexander, 3,631,851.
 Sanctuary, Clifford, 3,654,915.
 Sanctuary, Clifford, 3,707,699.
 Syrop, Leroy J., 3,699,176.
 Del Mar Engineering Laboratories, mesne: See—
 Huxley, Thomas C., III; and Dooze, Franklin W., 3,653,461.
 Del Mastro, Ludwig E.: See—
 McMenamy, Frederick; De More, Louis A.; and Del Mastro, Ludwig E., 3,671,835.
 Del Monte Corporation: See—
 Corlett, Donald A., Jr.; and Caldis, Panos D., 3,683,550.
 Lent, Ralph C., 3,682,291.
 Mc Neil, Raymond F., 3,687,334.
 Ross, Edward E., 3,669,240.
 Ross, Edward E., 3,682,301.
 Del Ponti, John D.: See—
 Dorazio, Michael P., 3,685,825.
 Del Ross, Sergio: See—
 Ciuti, Brunello; and Del Ross, Sergio, 3,676,357.
 Imparato, Luigi; Rossi, Enzo; and Del Ross, Sergio, 3,654,329.
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Carraro, Giorgio; Del Vesco, Adriano; and Olindo, Santino, 3,686,299.
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Koleske, Joseph Victor; Roberts, Rene Marie-Joseph; and Del-Giudice, Frank Paul, 3,670,045.
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Eberle, Jeannine A.; Sergant, Micheline Y.; Fauran, Claude P.; and Huguet, Gerard J., 3,642,898.
- Delalande S.A.: *See—*
Delalande, Michel L., 3,636,084.
- Douzon, Colette A.; Huguet, Gerard J.; Fauran, Claude I.; Raynaud, Guy M.; and Gouret, Claude J., 3,654,298.
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Bateman, Lawrence Giles, 3,655,072.
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Knight, William Roy; and Delamere, Richard William, 3,688,940.
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Coppen, Alec James; and Metral, Jean-Pierre, 3,641,236.
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McGuire, Kenneth John, 3,677,870.
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Michel, Bernard; and Delaney, J. Allison, 3,693,796.
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Conniff, Jay P.; Delaney, Vincent N.; and Merz, Kenneth A., 3,641,644.
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Schofield, J. Allan; and Delano, Roger A., 3,640,884.
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- Schofield, J. Allan; and Delano, Roger A., 3,671,443.
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- Schofield, J. Allan; and Delano, Roger A., 3,671,445.
- Schofield, J. Allan; and Delano, Roger A., 3,671,446.
- Delany, Daniel Stephen: *See—*
Burger, Manfred, 3,637,187.
- Delapena Honing Equipment Limited: *See—*
Johnson, Donald Edgar, 3,672,102.
- Delarue, Bernard: *See—*
Boissieras, Jean; Delarue, Bernard; and Lefort, Marcel, 3,660,443.
- Delaunay, Daniel: *See—*
De Demandolx Dedons, Pierre; Giroud, Gerard; and Delaunay, Daniel, 3,704,796.
- Delaunay, Just: *See—*
Bobard, Emile; and Delaunay, Just, 3,693,987.
- Delaune, Gerald P.: *See—*
Mailhos, Joseph E.; and Delaune, Gerald P., 3,666,619.
- Delaune, Sidney D.: *See—*
Poli, Albert A., Jr.; and Delaune, Sidney D., 3,692,492.
- Delavan Manufacturing Company: *See—*
Andreasen, Howard P.; Ankeny, Jay H.; Foddy, Harold W.; and Reynolds, David W., 3,676,020.
- Ankeny, Jay H., 3,665,814.
- Conrad, Sherman E., 3,693,886.
- Reynolds, David W., 3,641,829.
- Tate, Roger W.; and Wilcox, Richard L., 3,680,793.
- Wayne, Alex, 3,667,616.
- Wayne, Alex, 3,672,578.
- Wayne, Alex, 3,684,194.
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Viehe, Heinz G.; and Delavarenne, Serge Y., 3,654,368.
- Delaware SDS, Inc., mesne: *See—*
England, Alfred W., 3,702,462.
- Mendelson, Myron J.; and England, Alfred W., 3,701,977.
- Delaware Valley Armaments, Inc.: *See—*
Krupa, Thomas J., 3,670,655.
- Delbag-Luftfilter Gesellschaft mit beschränkter Haftung: *See—*
Neumann, Gerhard, 3,695,008.
- Neumann, Gerhard Max, 3,691,736.
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Conn, James B.; Delbauve, J. Richard; and Lilienkamp, Hugh, 3,697,886.
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Steiger, Robert W.; and Skoog, Ralph E., 3,683,332.
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Chernack, Milton P., 3,685,520.
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- Deleray, Arthur L.: *See—*

- Cochran, David L.; Deleray, Arthur L.; and Lehman, John P., 3,698,320.
- Delesdernier, Penelope Brodtmann: *See—*
Reynoir, Diane Greenslit; and Delesdernier, Penelope Brodtmann, 3,678,945.
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Noll, Stanley Darwin; and Delfeld, William F., 3,672,030.
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Wooster, George S.; and Delgado, Frank M., 3,639,355.
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McNeil, Donald J., Sr.; and Deline, Richard R., 3,646,975.
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Lapointe, Yves Anselme; Simard, Guy; Emond, Henri; and Delisle, Pierre A., 3,637,254.
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Behrens, Burkhard; and Delius, Hermann, 3,699,022.
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- Dell, Harold R.: *See—*
Becker, Carl H.; Dell, Harold R.; French, Ballard D.; Hashiguchi, Masao; McFarland, Keith E.; and Wong, Herman, 3,654,624.
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Perrin, Alfred J.; Dell John D.; Evans, David B.; and Lewis, George Stanley, 3,677,339.
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Teotino, Uberto; and Della Bella, Davide, 3,646,146.
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Markert, Juergen; Eckert, Peter; and Della Casa, Angelo, 3,707,346.
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- Della Porta, Paolo; and Rebaudo, Mauro, to S.A.E.S. Getters S.p.A. Mercury generation. 3,657,589, 4-18-72, Cl. 313-178.
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Teotino, Uberto Maria; and Dellabella, Davide, 3,652,607.
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Dietrich, Walter A.; and Dellert, Helmut G. M. V., 3,652,821.
- Dellert, Robert C., to General Electric Company. Testing means for fluidic circuit elements. 3,678,752, 7-25-72, Cl. 73-389,000.
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- Delliehausen, Claus: *See—*
Wilke, Gunther; Heimbach, Paul; and Delliehausen, Claus, 3,660,440.
- Delligatti, Patrick. Hour and/or minute code marker. 3,702,000, 10-31-72, Cl. 346-92,000.
- Dellinger, Matthew H.: *See—*
Orazem, Gerald J.; Martin, Kenneth R.; Dellinger, Matthew H.; and Leonhardt, William S., 3,642,648.
- Dellioca, Conrad J.: *See—*
Learn, Arthur J.; Shepherd, William H.; and Dellioca, Conrad J., 3,702,427.
- Dellsperger, Werner: *See—*
Favie, Claude; Dellsperger, Werner; and Meline, Philippe, 3,646,165.
- Favie, Claude; Dellsperger, Werner; and Meline, Philippe, 3,652,730.
- Delmag-Maschinenfabrik Rheinhold Dornfeld: *See—*
Dornfeld, Eberhard R.; Hennecke, Rudolf R. G.; and Kehrberger, Achim L., 3,642,078.
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Cook, John Robert; Delmenico, Jack; and Jones, Francis William, 3,684,430.
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MacKenzie, Gerald L., 3,650,855.
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- Delonge, Jean-Claude Lucien: *See—*
Camboulives, Andre Alphonse Mederic Leon; Delonge, Jean-Claude Lucien; Cesson, Theophile Francois Le Maout; and Vandenbroucke, Alfred Jiles, 3,687,222.
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Guillemette, Gilbert Auguste; and Delorme, Michel Jean, 3,667,102.
- Delort-Laval, Jean: *See—*
Zelter, Zelman; Delort-Laval, Jean; Lassonnery, Jean; and Rodeaud, Jacques, 3,632,351.
- Delourme, Jean: *See—*
Fourneau, Jean-Pierre; and Delourme, Jean, 3,654,282.
- DeLowe, Larry K.: *See—*
Ajmani, Mohan; DeLowe, Larry K.; and Hankins, Thomas C., 3,662,383.

- Delpino, Frank H. Analog entry data card for game scoring, or the like, and method of using the same. 3,678,251, 7-18-72, Cl. 235-61.11a.
- Delron Fastener; division of Rex Chainbelt Inc.: See—Cushman, Kenneth V., 3,646,982.
- Delsack, Kurt. Article having handle portion with internal desiccant containing cartridge. 3,645,008, 2-29-72, Cl. 34-81.
- Delta Data Systems Corporation: See—Bard, Irving Gary, 3,675,208.
- Kleinschmitt, Andrew J., 3,683,359.
- Delta Design, Inc.: See—Chaparro, John J.; Ellis, Lowell V.; Meanor, Doyle W.; Morton, William D., Jr.; Richelmann, Bernd H.; Ross, George B.; and Toth, John E., 3,677,401.
- Toth, John E., 3,661,255.
- Delta Electronics Inc.: See—Owen, Kenneth; and Kershner, Stephen W., 3,666,902.
- Delta Exploration Company, Inc.: See—Bays, Marvin G., 3,676,840.
- Delta Manufacturing and Engineering Corporation: See—Daum, John I.; and Spurgin, Ray B., 3,688,784.
- Moore, Werton Dewitt, 3,670,743.
- Delta Marine Control; division of Unitec Industries, Inc.: See—Boyle, William Joseph, Jr., 3,660,871.
- Delta P. Incorporated: See—Francis, Roy B.; and Holmes, Billy D., 3,636,683.
- Delta Products, Inc.: See—Schweitzer, John C.; and Junak, Edward M., 3,704,385.
- Delta Scientific Corporation: See—Kushner, Jack, 3,679,331.
- Delta Strapping Industries, Inc.: See—Lefkowitz, Harold, 3,678,541.
- Delta Venture: See—Evans, Robert W.; and Jackson, Stuart P., 3,660,688.
- Delta-T-Inc.: See—Dreibelbis, Richard C.; and Turner, Warren E., 3,642,176.
- Delta-X Corporation: See—McKee, Fount E., 3,639,737.
- Deltombe, Emile J., to Frye Industries Inc., mesne. Sealing of colored anodized aluminum. 3,652,429, 3-28-72, Cl. 204-35.
- Deltoro, Thomas M. Automated color print processor. 3,672,288, 6-27-72, Cl. 95-89.00r.
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- Delve, Malcolm Hoban: See—Newson, Ivan Henry; and Delve, Malcolm Hoban, 3,702,807.
- Delzenne, Gerard Albert: See—Laridon, Urbain Leopold; Delzenne, Gerard Albert; and Peeters, Hugo Karel, 3,661,573.
- Laridon, Urbain Leopold; Delzenne, Gerard Albert; Poot, Albert Lucien; and Peeters, Hugo Karel, 3,682,642.
- Poot, Albert Lucien; and Delzenne, Gerard Albert, 3,642,484.
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- Dema, Joseph. Tissue box bracket. 3,685,777, 8-22-72, Cl. 248-205.000.
- Demag Aktiengesellschaft: See—Becker, Klaus, 3,677,598.
- Becker, Klaus; and Wolski, Karlheinz, 3,694,020.
- Fahrenholz, Heinz, 3,705,655.
- Frick, Willy, 3,650,350.
- Hinze, Horst; and Jansch, Frantisek J., 3,693,352.
- Kampf-Emden, Gerd; Horst, Heinz; and Klapdohr, Friedrich, 3,643,999.
- Koch, Hans; Oppermann, Willi; and Pfeffer, Heinz, 3,694,617.
- Koch, Wilhelm, 3,651,857.
- Kreuz, Otto; and Hoeft, Wolfgang, 3,648,758.
- Lichtenvort, Uwe; Kluge, Johannes; and Schleyer, Meinolf, 3,704,355.
- Mahringer, Karl Heinrich; and Langlitz, Karlheinz, 3,684,265.
- Nieboer, Pieter Hendrik, 3,651,964.
- Nieboer, Pieter Hendrik, 3,679,193.
- Nieboer, Pieter Hendrik, 3,680,849.
- Nieboer, Pieter Hendrik, 3,693,956.
- Nieboer, Pieter Hendrik, 3,704,992.
- Oppermann, Willi; Schmitz, Egon; and Wagner, Werner, 3,648,007.
- Stresemann, Siegfried; Langlitz, Karl-Heinz; and Mahringer, Karl-Heinz, 3,652,072.
- Weber, Hans, 3,690,138.
- Wiggershaus, Fred; and Donner, Klaus, 3,696,755.
- Wirtz, Walter; and Genge, Ulrich, 3,705,713.
- Demag Elektrometallurgie GmbH: See—Reth, Johannes A.; and Fettweis, Winifried H., 3,679,806.
- Demag-Lauchhammer Maschinenbau und Stahlbau G.m.b.H.: See—Heitzer, Heinrich, 3,687,265.
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- Demers, Alfred John: See—Leeks, Robert Ernest; and Demers, Alfred John, 3,698,933.
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- Demidov, Vladimir Vasilievich; Goldstein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov Nikolai Nikolaevich; Puralis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and rits, Leonid Borisovich. Automatic diagnostic station for automobiles. 3,683,683, 8-15-72, Cl. 73-117.000.
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- Demin, Anatoly Anisimovich: See—Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Besedin, Leonid Nikolaevich; Zhurenko, Anna Timofeevna; Urvantsev, Leonid Mikhailovich; Scherbakov, Jury Dmitrievich; Yasyukevich, Boris Ivanovich; Demin, Anatoly Anisimovich; and Peshkov, Evgeny Iktorovich, 3,654,756.
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- Bestenreiner, Friedrich; Deml, Reinhold; Greis, Ulrich; and Pfeifer, Josef, 3,644,019.
- Demler, Henry William, Sr.: See—Hoffman, Joseph Willard; and Demler, Henry William, Sr., 3,706,219.
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- Demsey, John N., Jr.: See—Gayner, Herbert; and Demsey, John N., Jr., 3,632,461.
- Demsky, Herbert M.; Platt, Alan; Rideout, Arthur J.; and Samson, Robert S., to International Business Machines Corporation. Method of fabricating a transistor having improved emitter-base junction breakdown voltage characteristics. 3,650,854, 3-21-72, Cl. 148-187.
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- Denard, Ralph A.: See—Groves, Frank R.; and Denard, Ralph A., 3,633,638.
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- Denda, Ryuji: See—Nakata, Josuke; and Denda, Ryuji, 3,671,821.
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- Deneb Products Engineering: See—Lower, John H.; and Lagus, Peter, 3,695,611.
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- Dengo, Tadao: *See—*
Suenaga, Masanobu; Machii, Tetsuo; Sawano, Takahiro; Kobayashi, Takehiko; Dengo, Tadao; and Nakai, Tetsuzo, 3,648,121.
- Denhard, Elbert E., Jr.: *See—*
Espy, Ronald H.; and Denhard, Elbert E., Jr., 3,660,080.
- Denhard, Elbert E., Jr.; and Gaugh, Robert R., to Armco Steel Corporation. Austenitic steel combining strength and resistance to intergranular corrosion. 3,645,725, 2-29-72, Cl. 75-128.
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- Denices Limited: *See—*
Kenny, John, 3,688,776.
- Deniega, Castillo: *See—*
Tellerman, Edward M.; and Deniega, Castillo, 3,690,127.
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Eimers, Erich; Deninger, Wolfgang; and Alt, Bernhard, 3,641,203.
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Panter, Peter D.; Denis, Claude P-E.; and Kaempfer, Gerhard P., 3,688,325.
- Panter, Peter D.; Denis, Claude P-E.; and Kaempfer, Gerhard P., 3,698,028.
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- Denis, Richard E.: *See—*
Fryklund, Gilbert; and Denis, Richard E., 3,704,655.
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Scherban, Alexandr Nazarevich; Furman, Neonil Izrailevich; Sotnichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Yuri Ivanovich; Sutormin, Yuri Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chaschinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna, 3,678,489.
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Ioffe, Benjamin Alexandrovich; Lapidus, Mikhail Khaimovich; Preis, Vladimir Viktorovich; Kalnin, Robert Karlovich; Sermons, Gunar Yanovich; Dorofeev, Vyacheslav Semenovich; Zheigur, Bruno Domenikovich; Shevchenko, Alexandr Alexandrovich; Denisov, Gennady Alexandrovich; Mikelson, Artur Eduardovich; and Makhlin, Aron Judovich, 3,662,302.
- Denisov, Nikolai Timofeevich; Efimov, Oleg Nikolaevich; Shuvalov, Viktor Fedorovich; Shuvalova, Natalia Ivanovna; Shilova, Alla Konstantinovna; and Shilov, Alexandr Evgenievich, to Filial Ordena Lenina Institut Khimicheskoi Fiziki ANSSR. Method of produciv hydrazine. 3,703,354, 11-21-72, Cl. 23-190.00r.
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Novikov, Alexei Viktorovich; Fridman, Lev Petrovich; Zinkovsky, Viktor Antonovich; Denisov, Vladimir Ivanovich; Fisenko, Konstantin Vitalievich; Rattenberg, Vadim Nikolaevich; and Presnyakov, Alexandr Alexandrovich, 3,683,998.
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Lerach, Josef; and Denk, Victor, 3,662,390.
- Denker, James M., to Nutron Corporation. Fluid pressure controlling. 3,662,551, 5-16-72, Cl. 60-53.
- Denki Kagaku Kogyo Kabushiki Kaisha: *See—*
Fukuoka, Ichiro; Kimura, Shoji; Nishimura, Takehiko; and Takahashi, Satoshi, 3,697,609.
- Fukuoka, Ichiro; Takahashi, Satoshi; and Yagi, Norio, 3,700,645.
- Kadowaki, Takashi; Iwasaki, Takao; Mitsuta, Yutaka; and Shimada, Kenji, 3,691,143.
- Kadowaki, Takashi; and Itoyama, Kenji, 3,703,568.
- Kasagi, Masanori; and Gunjigake, Koreaki, 3,692,723.
- Kobayashi, Ryuichi; Iwasaki, Takao; Hirano, Junji; and Matsu-mura, Hideki, 3,657,366.
- Konishi, Kozo; Otake, Michio; Maeda, Tatu, and Maruyama, Kuniaki, 3,672,941.
- Konishi, Kozo; Suzui, Masaaki; Otake, Michio; and Maeda, Tatu, 3,699,112.
- Masuda, Shiro; Ohkubo, Takashi; and Furukawa, Yu, 3,703,492.
- Mizunuma, Tsutomu; and Azumi, Tsukuru, 3,663,287.
- Nakagawa, Kozi, 3,666,515.
- Sugano, Seiroku; Arai, Tomio; Hayami, Seinoshin; Watanabe, Sadao; Fujishiro, Shigeru; and Ono, Takeo, 3,689,372.
- Denki Onkyo Co., Ltd.: *See—*
Ikeuchi, Hiroshi, 3,681,725.
- Ikeuchi, Hiroshi, 3,684,989.
- Inoue, Keiji, 3,657,578.
- Inoue, Keiji, 3,694,674.
- Inoue, Keiji, 3,707,636.
- Inoue, Keizi, 3,679,918.
- Katayama, Shitomi; and Horikawa, Hideichi, 3,640,971.
- Kawada, Takehiko, 3,636,386.
- Kawada, Takehiko, 3,683,210.
- Kawada, Takehiko, 3,689,781.
- Kawada, Takehiko, 3,691,410.
- Kobayashi, Tsunekazu, 3,680,025.
- Kobayashi, Tsunekazu, 3,657,687.
- Kobayashi, Tsunekazu, 3,660,795.
- Kobayashi, Tsunekazu, 3,671,874.
- Masuda, Noboru; and Hida, Takeshi, 3,657,686.
- Masuda, Noboru, 3,671,854.
- Masuda, Noboru; and Koba-ashi, Tsunekazu, 3,676,828.
- Masuda, Noboru; and Kuroyanagi, Masashi, 3,680,026.
- Masuda, Noboru; and Kobayashi, Tsunekazu, 3,681,733.
- Masuda, Noboru; and Kobayashi, Tsunekazu, 3,681,735.
- Masuda, Noboru; and Kobayashi, Tsunekazu, 3,681,736.
- Masuda, Noboru, 3,684,997.
- Mogi, Toshio, 3,662,315.
- Mogi, Toshio, 3,703,695.
- Nishida, Koji, 3,684,987.
- Sakurai, Yasunobu; Sato, Hideo; Shimizu, Masao; and Inoue, Keiji, 3,660,699.
- Sakurai, Yasunobu, 3,700,959.
- Sawada, Eiji, 3,671,894.
- Sawada, Eiji, 3,694,781.
- Shimizu, Masao, 3,700,936.
- Toba, Takao, 3,701,002.
- Tsubakihara, Shuzo, 3,701,067.
- Denley, Ronald S., to Teletype Corporation. Function performing mechanism. 3,640,370, 2-8-72, Cl. 197-114.
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Dennert, Heinz; and Dennert, Hans Veit, 3,704,010.
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Denney, Jerry W.; and Denney, Larry W., 3,652,222.
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Clarke, Terence J. L.; Quarmby, Robert C.; and Dennis, Kenneth, 3,662,788.
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Zimmerman, Robert L.; Dennis, Kent S.; and Moore, Eugene R., 3,678,016.
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Sinclair, Stuart W.; and Dennis, Monroe J., 3,659,733.
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Michael, Keith W.; and Dennis, William E., 3,696,138.
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Davies, Peter W.; and Dennison, John P., 3,635,701.
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Melloy, George F.; and Dennison, Joseph D., 3,645,801.
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Austin, Charles C., 3,666,072.
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- Bone, Arnold R., 3,659,769.
- Carlson, Lee Allen; and Miekka, Richard George, 3,695,874.
- Cobb, Harold W., 3,665,181.
- Dudley, John S., 3,646,907.
- Heller, Harold M., 3,685,648.
- Mac Kenzie, Alfred K., 3,682,542.
- Merser, Francis G., 3,686,717.
- Setzer, Henry J., 3,690,999.
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- Travers, Frederick W., 3,672,982.
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Arciprete, Genio R.; Brokow, Adrian P.; Dumais, Richard L.; and Stucchi, Richard F., 3,662,362.
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Lundgreen, Michael W.; and Denniston, Rollin H., 3,641,572.
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Denny, Frank E.; and Denny, Douglas M., 3,643,367.
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Logan, William A.; Holmes, Richard M.; Denny, William M.; Mahon, Michael J.; Skalski, Stephen, III; Henige, Gerald L.; and Bedekar, Shreekanth, 3,686,641.
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Sykes, Christopher; and Denroche, Charles H. P., 3,664,627.
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Taub, William; Denss, Rolf; and Ostermayer, Franz, 3,692,913.
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Smith, John L.; Dent, Robert A.; and Raetz, James R., 3,641,746.
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- Dental Design Systems: *See—*
Denholtz, Melvin, 3,638,918.
- Dental Designs, mesne: *See—*
Fuller, Frank I.; Fox, Shirli S.; and Keller, Ronald F., 3,636,633.
- Dental Gold Company: *See—*
Greenstein, Jean I., 3,631,631.
- Dental Unit Construction: *See—*
Buchtel, Dean H.; Lappin, Kenneth R.; and Maurer, John A., 3,691,634.
- Dentalaktiebolaget: *See—*
Soderqvist, Karl Gustav, 3,657,819.
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- Denton, Charles I.: *See—*
Shamash, Maurice B.; Staley, William W.; Denton, Charles I.; and Walton, Fred D., 3,683,105.
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- Dentonomics Corporation: *See—*

- Lec, Robert L.; Schwartz, Jacob L.; and Klepa, Peter P., 3,694,919.
- Dentsply International Inc.: See—
Dougherty, Emery W., 3,647,498.
Johnson, Philip C., 3,661,421.
Kroder, Ernest A., 3,663,191.
Saffir, Jacob A., 3,660,343.
Saffir, Jacob A., 3,663,099.
Schaun, Wolfgang Eugene, 3,655,941.
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Schwartz, Carl H., 3,690,366.
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Kroder, Ernst A., 3,670,416.
- Dentsu Central Kabushiki Kaisha: See—
Kaneyasu, Masao, 3,643,040.
- Denver Brick and Pipe Company: See—
Ansel, Ferman L., 3,650,510.
- Denver Research Institute: See—
Kottenstette, James P., 3,707,649.
- Denzler, Frank D.: See—
Denton, Cecil S.; and Denzler, Frank D., 3,659,696.
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United States of America, National Aeronautics and Space Administration, 3,697,968.
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Audeh, Azmi S.; Deodhar, Anil N.; and Glattfelder, Henry G., 3,648,134.
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Perga, Martin W.; DePalma, Ted V.; Fessler, LeRoy E.; and Brons, Albert J., 3,649,215.
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- DePietro, Anthony J.: See—
Smith, Bernard; and DePietro, Anthony J., 3,698,585.
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Kamber, Heinrich; Hausammann, Werner; and Deplante, Henri, 3,642,234.
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De Belder, Maurice Hector; Duville, Rene Omer; Philippaerts, Herman Adelbert; Ghys, Theofiel Hubert; and Depoorter, Henri, 3,652,280.
Hofman, Emiel Alexander; Ghys, Theofiel Hubert; and Depoorter, Henri, 3,647,460.
Philippaerts, Herman Adelbert; Ghys, Theofiel Hubert; and Depoorter, Henri, 3,705,038.
Poot, Albert Lucien; Van Besauw, Jan Frans; and Depoorter, Henri, 3,676,133.
Poot, Albert Lucien; and Depoorter, Henri, 3,676,138.
Poot, Albert Lucien; and Depoorter, Henri, 3,676,140.
Rillaers, Guy Alfred; Depoorter, Henri; and Moelants, Felix Jan, 3,687,670.
Vanheertum, Johannes Josephus; Ghys, Theofiel Hubert; and Depoorter, Henri, 3,684,505.
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- Deprez, Thomas A.: See—
Clarke, James F.; and Deprez, Thomas A., 3,640,030.
- Depuy, Charles H.: See—
Argabright, Perry A.; and Depuy, Charles H., 3,684,807.
- DePuy, Inc.: See—
Weinstein, Bernard, 3,670,347.
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- der Funten, Helmut: See—
Richtzenhain, Hermann; and aus der Funten, Helmut, 3,646,126.
- Der Marderosian, Aaron C.: See—
Caccamesi, Vincent C.; and Der Marderosian, Aaron C., 3,675,468.
- Deradoorian, Bagdasar: See—
Colson, William B.; Niedermiller, Herbert C.; and Deradoorian, Bagdasar, 3,679,384.
Cross, Fred H.; and Deradoorian, Bagdasar, 3,678,328.
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- Derbunov, Mikhail Alexandrovich: See—
Shepyakovskiy, Konstantin Zakharovich; Ushakov, Boris Konstantinovich; Devyatkin, Vasily Petrovich; Devyatkov, Vladimir Fedorovich; Shakhov, Vasily Ivanovich; Kachkanov, Nikolai Nikolaevich; Gazarov, Leon Alexandrovich; Pchelkina, Valentina Mikhailovna; Drbunov, Mikhail Alexandrovich; and Vologdin, Vladislav Valentinovich, 3,682,519.
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Erne, Hansjorg; and Halma, Laszlo, 3,685,692.
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Pharris, John A.; and D'Ercoli, Giacinto C., 3,638,271.
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Sorensen, Clarence A.; and Deremo, Edwin J., 3,700,363.
- Dereng, Viggo G.: See—
Pleasant, James E.; and Dereng, Viggo G., 3,700,192.
- Derenzo, Stephen E.: See—
Alvarez, Luis W.; Derenzo, Stephen E.; Muller, Richard A.; Smits, Robert G.; and Zaklad, Haim, 3,659,105.
- Derevtsov, Anatoly Nikolaevich: See—
Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov, Nikolai Nikolaevich; Purnalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev,

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- Derfer, John M.: See—
Bordence, Carl; and Derfer, John M., 3,644,645.
Hamby, Clayton B.; Barrett, Charles W.; and Derfer, John M., 3,660,512.
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Derham, Leslie Jack, 3,650,730.
Derham, Leslie Jack; and John, Glen Owen, 3,667,934.
- Deribas, Andrei Andreevich: See—
Demchuk, Alexandr Fedorovich; Deribas, Andrei Andreevich; Kudinov, Vladimir Mikhailovich; Matveenko, Felix Iovich; and Simonov, Valery Alexandrovich, 3,650,014.
- Derieg, Michael Edward; Fryer, Rodney Ian; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. Quinazolino-benzodiazepines and methods for the preparation thereof. 3,651,046, 3-21-72, Cl. 260-239.3.
- Derighetti, Renato: See—
Ullmann, Werner; Derighetti, Renato; and Marazzi, Valentino, 3,662,182.
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- Deritend Engineering Company, The: See—
Bishop, Thomas Desmond, 3,705,526.
- Derkach, Viktor Gershovich: See—
Bekhtle, Georgy Alexandrovich; Myasnikov, Nikolai Fedorovich; Mitrofanov, Jury Eremeevich; Berestov, Evgeny Stepanovich; Kauvasinsky, Albert Frantsevich; Leibson, Mark Lazarevich; and Derkach, Viktor Gershovich, 3,690,454.
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- Dermota, Franc: See—
Gorbei, Janos Miklos; and Dermota, Franc, 3,633,645.
- Dernbach, Barbara F.: See—
Yudelson, Joseph S.; and Dernbach, Barbara F., 3,650,748.
- Dernovshek, Joseph F.: See—
Nelson, John P.; Dernovshek, Joseph F.; Miller, Hal E.; and Byers, Clifton A., 3,650,357.
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Geller, Leo; Deguillaume, Robert; and Desaules, Pierre Antoine, 3,632,743.

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DeSaussure, William P.; and DeSaussure, William P., III, 3,635,172.
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Cairns, James Anthony; and Desborough, Colin Leonard, 3,704,371.
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Gabillard, Robert; Louage, Francois; and Desbrandes, Robert, 3,690,164.
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Binon, Fernand; and Descamps, Marcel Louis Victor, 3,651,051.
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Gaudry, Paul E.; Gaudry, Edouard; Descarries, Raymond; and Anderson, James, 3,631,559.
Gaudry, Paul E.; Gaudry, Edouard; Descarries, Raymond; and Anderson, James, 3,673,628.
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Marx, Helmut; and Desch, Hermann, 3,653,750.
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Chiron, Bernard; Deschamps, Andre; and Duffau, Louis, 3,697,901.
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Carbonnel, Henri; and Descleve, Pierre, 3,666,295.
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Charamel, Andre; Duroux, Jacques Marius; Siquet, Serge; and Descroix, Jacques, 3,692,830.
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Feder, Ernst; Deselaers, Kurt; and Czechovsky, Gunther, 3,669,847.
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Aurenge, Jacques; and Desfeuillet, Jean, 3,693,661.
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Zane, Victor H., 3,673,531.
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Menkel, Gary G., 3,651,185.
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Cram, Robert S., 3,671,004.
- Design Elements, Inc. See—
Mason, Edwin E., 3,660,730.
Mason, Edwin E.; and Libby, Ross C., 3,689,825.
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Mehl, Donald N., 3,668,798.
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Jensen, Alan K.; and Desilets, Richard L., 3,688,260.
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Chittenden, Rudy M.; Deskevich, Stephen; Plummer, Norman R.; Rohrer, Gene D.; and Zaman, Louis F., III, 3,645,392.
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Heston, Russell G., Jr., 3,696,629.
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Reid, James Paul, Jr.; and Deskins, David S., 3,703,773.
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Zeug, Robert; and Koch, Friedrich, 3,698,694.
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Ludwig, Herbert, 3,667,883.
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Desmarais, Gerard; and Desmarais, Claude, 3,672,490.
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Fresia, Elmo James; and Desmond, Jeremiah E., 3,653,119.
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Hirst, Robert G.; and Desnoyers, George J., 3,705,826.
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Beregi, Laszlo; Hugon, Pierre; and Desnoyers, Pierre, 3,696,117.
- DeSoto Chemical Co., Inc. See—
Gordon, Walter C., 3,643,371.
- Desperrier, Gerard. See—
Morin, Jean; and Desperrier, Gerard, 3,644,694.
- Desplanques, Roger. See—
Le Strat, Guy Jean; and Desplanques, Roger, 3,673,333.
- Despres, Daniel C. See—
Borelli, Ronald F.; Despres, Daniel C.; and Garand, Donald J., 3,687,107.
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Fay, Homer; Alford, Wilbur J.; and Dess, Howard M., 3,639,776.

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Stourmas, Stamoulis; Heiba, El-Ahmadi I.; and Dessau, Ralph M., 3,706,541.
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van der Houwen, Derk, 3,651,265.
- Destefano, John F.; Ezolt, James J.; and Benchoff, James Martin, to Grove Manufacturing Company. Hydraulic system for sequential control of hydraulic motors. 3,641,764, 2-15-72, Cl. 60-52.
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Wayson, Andrew J.; and DeStefano, Richard T., 3,669,219.
- deStevens, George. See—
Carney, Richard William James; and deStevens, George, 3,657,230.
Dickel, Daniel Frederick; and deStevens, George, 3,686,211.
Gschwend, Heinz Werner; and deStevens, George, 3,678,059.
Rodriguez, Herman Robert; and deStevens, George, 3,706,830.
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Steintveit, Georg, 3,684,490.
- Von Roepenack, Adolf; Wuethrich, Hans; and Schmidt, Wilhelm, 3,691,038.
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Parr, Russell Dale; and Dete, Leo Joseph, Jr., 3,643,388.
- Detec S.A. See—
Decupper, Jean A., 3,674,421.
- Detection Sciences, Inc. See—
Purland, Donald A.; and Gustafson, Alan M., 3,646,751.
- Detection Systems, Inc. See—
Perlman, David E., 3,644,917.
Perlman, David E., 3,644,918.
Perlman, David E., 3,680,047.
- Deterling, Thomas M. Rotating rod saw and method of making same. 3,704,517, 12-5-72, Cl. 408-26.000.
- Determann, Helmut. See—
Rusmann, Horst; and Determann, Helmut, 3,705,652.
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Arndt, Peter Joseph; Fink, Herbert; Moroff, Helmut; Determann, Hermine; and Grimm, Reinhard, 3,663,462.
- Deters, Elmer M., to Red Jacket Manufacturing Company. Apparatus for detecting leaks in a fluid delivery line. 3,692,050, 9-19-72, Cl. 137-491.000.
- Dethlefsen, Rolf. See—
Attia, Edward A.; and Dethlefsen, Rolf, 3,674,958.
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Kruglikov, Anatoly Abramovich; Nikolaeva, Militina; Vilker, Simon Borisovich; and Detkov, Viktor Vasilievich, 3,689,463.
- Detrex Chemical Industries Inc. See—
Black, Charles A., 3,676,307.
Kircher, Charles E., Jr.; McAlister, Donald R.; and Brothers, Doris Le Roy, 3,691,240.
Schlossberg, Louis; and Sokalski, Stanley M., 3,644,152.
- Detroit Bullet Trap Corporation. See—
Nikoden, Joseph, 3,701,532.
- Detroit Edison Company, The. See—
Charneski, Mitchell D., 3,688,084.
Eicher, Dennis R., 3,648,070.
Elliott, Ernest A.; Kane, John W.; and Pasen, Randolph A., 3,671,002.
Mashikian, Matthew S.; Kelley, James K.; and McMurray, William C., 3,673,305.
Pasen, Randolph A., 3,637,918.
Simpkin, Lawrence J.; and Srodawa, Richard M., 3,686,956.
- Detroit Flame Hardening Co. See—
Bollinger, William C., 3,679,858.
- Detroit Tool and Engineering Company. See—
Burtin, James D., 3,672,646.
Burtin, James D., 3,696,501.
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- Dettelbach, Alfred. See—
Friz, Helmut A.; and Dettelbach, Alfred, 3,659,554.
- Detterbeck, Heinrich; and Kaehs, Heinrich, to Siemens-Electrogerate G.m.b.H. Baking and roasting oven. 3,636,937, 1-25-72, Cl. 126-19.
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Hindin, Saul G.; Dettling, Joseph C.; and Larsen, William R., 3,650,989.
Hindin, Saul G.; and Dettling, Joseph C., 3,662,011.
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- Dettmeier, Udo. See—
Sennewald, Kurt; Ohorodnik, Alexander; and Dettmeier, Udo, 3,642,929.
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Glatt, Jack E.; and Detzel, Jacob J., 3,651,191.
- Detzel, Joseph, to Lever Brothers Company. Attached handle for carrier carton. 3,684,153, 8-15-72, Cl. 229-52.00a.
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Spietschka, Ernst; and Deucker, Walter, 3,642,815.
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Groen, Siemen H.; and Deumens, Johannes J. M., 3,686,262.
Thoma, Jozef A.; and Deumens, Johannes J. M., 3,658,824.
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- Deuschel, Werner. See—

- Anderau, Walter; Oetiker, Alfred; and Deuschel, Werner, 3,634,386.
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Reiss, Robert Edward; Deuschle, Fritz; Moll, Wayne E.; and Merry, Jack D., 3,650,393.
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Schmidt, Wilhelm, 3,666,212.
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Tronville, Pier Giorgio, 3,652,124.
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Illigen, Alfred; and Neugebauer, Walter, 3,674,430.
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- Kirchgasser, Hedwig, 3,705,940.
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- Muller, Karl-Hans; and Kallrath, Gottfried, 3,632,352.
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- Pfleger, Hans, 3,694,148.
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- Vollbrecht, Heinz-Rudiger, 3,702,367.
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Hertzsch, Hans B., 3,698,041.
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Blaurock, Gunter; Hans, Stender; and Werner, Will, 3,700,271.
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Zucker, Friedrich Josef; and Bruchmann, Hans-Dieter, 3,682,447.
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Fuchs, Walter; and Esche, Horst, 3,704,514.
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Cherubim, Martin; Giehring, Horst; and Neier, Wilhelm, 3,703,531.
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Pitchford, Armin C.; and DeVault, Albert N., 3,649,527.
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Grout, Kenneth M.; and Devellian, Richard D., 3,664,638.
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Winters, Paul T., 3,648,302.
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Christ, David, 3,697,941.
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Folkes, Hugh L.; and Devenish, Graham F., 3,669,238.
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Grigorovici, Radu G.; Devenyi, Andrei Gavril; Florca, Valer; Korony, Gheorghe; Belu, Aretia; and Costachescu, Carol, 3,705,993.
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Cairns, Benjamin F., III, 3,702,712.
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Stallings, Leon; Devine, Martin J.; Maerker, Gerhard; and Eisner, Abner, 3,671,431.
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Jerue, Richard A., 3,689,988.
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Autry, Robert F., 3,664,849.
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Shepelyakovsky, Konstantin Zakharovich; Ushakov, Boris Konstantinovich; Devyatkin, Vasily Petrovich; Devyatkov, Vladimir Fedorovich; Shakhov, Vasily Ivanovich; Kachkanov, Nikolai Nikolaevich; Gazarov, Leon Alexandrovich; Pchelkina, Valentina Mikhailovna; Drbunov, Mikhail Alexandrovich; and Vologdin, Vladislav Valentinovich, 3,682,519.
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Havas, George; and Dewan, Shashi Bhushan, 3,686,558.
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Davis, Flourian R., Jr.; and Dewey, Ernest A., 3,657,864.
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Tupper, Willis E.; and Hanson, John R., 3,676,026.
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De Rossi, Frank, 3,676,391.
Guthrie, Victor M., 3,649,583.
Klapprott, David K.; and Paradis, Daniel L., 3,678,130.
Klapprott, David K.; and Paradis, Daniel L., 3,678,131.
Malcolm, Earl W., 3,647,684.
Stein, Alex H.; and Coder, William D., Jr., 3,670,049.
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Knell, Martin; and Dexter, Martin, 3,679,744.
Knell, Martin; and Dexter, Martin, 3,694,375.
Spivack, John D.; and Dexter, Martin, 3,676,531.
Steinberg, David H.; and Dexter, Martin, 3,707,542.
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Steinberg, David Herbert; Dexter, Martin; and Spivack, John D., 3,657,321.
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Lamendin, Arthur; Matel, Bernard; and Dhenin, Jean, 3,654,271.
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Bender, Stanley O.; and Di Girolama, Joseph, 3,691,506.
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Zinnes, Harold; Shavel, John, Jr.; Lindo, Neil A.; and Di Pasquale, Gene, 3,634,415.
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Adams, Joseph E.; Di Stefano, Edmund J.; and Enderley, Arthur E., 3,693,087.
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Gabor, Andrew, 3,663,880.
Gabor, Andrew, 3,691,542.
Gabor, Andrew, 3,638,089.
Jamieson, John W., 3,702,997.
- Diacel Ltd.: See—
Chujo, Kiyoshi; Ishihara, Tetsuo; and Osawa, Hiroshi, 3,695,922.
- Diacon, Inc.: See—
Wakley, Wilbur T.; and Leeds, Michael T., 3,697,666.
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Huber, Wolfgang, 3,637,640.
Huber, Wolfgang; and Schulte, Thomas L., 3,637,641.
Huber, Wolfgang, 3,687,927.
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Hammel, Larry F., 3,661,078.
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Kolbeck, Winfried; and Bayerlein, Friedrich, 3,646,056.
Stark, Adolf F.; Kolbeck, Winfried; and Bayerlein, Friedrich J., 3,704,318.
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Fiehler, Raymond H.; Dickman, John J.; and Diamant, Max, 3,645,012.

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Sellet, Lucien, 3,655,619.
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Baldyga, Joseph W., 3,636,636.
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Hull, Harold L., 3,682,363.
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Levy, Selden; Grant, Stuart; Coryell, Vincent; and Diamond, Fred, 3,692,389.
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Carmona, Delio; Diamond, Harvey; and Maliga, Joachim, 3,654,502.
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Bixler, Kenneth D., 3,698,623.
Corsette, Douglas F., 3,669,316.
Fontenelli, John L., 3,656,645.
Horvath, William, 3,669,295.
Keen, Everett M.; and Siciliano, Anthony J., 3,641,983.
McCord, Robert C., 3,656,794.
Reifers, Richard F.; and Bixler, Kenneth D., 3,682,365.
Reifers, Richard F., 3,700,096.
Struble, Glenn E., 3,669,337.
Struble, Glenn E., 3,693,866.
Struble, Glenn E., 3,699,598.
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Welter, Clarence J.; and Ristic, Miodrag, 3,674,860.
Welter, Clarence J., 3,704,203.
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Dick, George W.; and Diamond, Norman, 3,698,630.
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Locke, James W., Sr.; and Goeller, John C., III, 3,664,310.
Rosen, Philip J., 3,706,921.
Sherrick, Ronald E.; and Singleton, John C., 3,679,173.
Winders, Gordon R., 3,651,742.
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Adams, Bobby F.; Pyne, William J.; and Gullo, James M., 3,639,608.
Barbato, Alexander L., 3,705,842.
Battershell, Robert D., 3,637,796.
Beckers, Norman L., 3,682,830.
Bennett, John E.; and O'Leary, Kevin J., 3,677,975.
Bimber, Russell M.; and Schuldt, Paul H., 3,637,716.
Bimber, Russell M., 3,652,637.
Blomfield, Rodney A., 3,707,508.
Bufton, Richard G.; Semancik, John R.; and King, George G., 3,647,769.
Carbonnel, Jack V.; Grammont, Paul D.; and Werotte, Louis E., 3,674,728.
- Curtis, James H.; and Woodward, Fred E., 3,673,105.
- Dasch, Lawrence, 3,671,441.
- Fogelman, Edward I., 3,674,676.
- Granito, Charles E., 3,651,070.
- Greenbaum, Sheldon B.; Griffith, Richard; and Klein, Howard C., 3,632,647.
- Gullett, William W., 3,684,494.
- Hitzel, Charles F., 3,684,577.
- Horvath, Roland J.; and Parson, Charles G., 3,647,523.
- Kennedy, Alexander W.; and Malkin, Irving, 3,687,739.
- Kolb, James M., 3,654,188.
- Lasco, Ralph H., 3,703,473.
- Lichtman, Irwin A.; and Rosengart, Abraham M., 3,677,963.
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- Lipowski, Stanley A.; and Queen, John C., Jr., 3,703,563.
- Liston, Balmer Scott, 3,689,012.
- Loftfield, Richard E.; and Laub, Henry W., 3,707,454.
- Lukes, James J.; and Koll, Robert J., 3,674,881.
- MacDonnell, Thomas Francis, 3,652,453.
- Magee, Thomas A., 3,652,572.
- Malkin, Irving; Palm, Bert E.; De Ridder, Jon A.; and Germano, Victor V., 3,671,331.
- Malkin, Irving, 3,687,738.
- Palm, Bert E.; and Germano, Victor V., 3,682,718.
- Pierce, John K., Jr., 3,642,740.
- Retallick, Lawrence A.; Lempel, Lawrence E.; and Bluestone, Henry, 3,663,664.
- Schoendorfer, George F.; Morschhauser, Roger J.; Gardner, Thomas S.; and Thompson, Donald L., 3,655,539.
- Sellet, Lucien, 3,674,415.
- Welsh, Jay Y., 3,637,776.
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Pearo, Joseph J., 3,670,737.
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Levine, Seymour D.; and Diassi, Patrick A., 3,647,820.
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Bernstein, Jack; Diassi, Patrick Andrew; and Weisenborn, Frank Lee, 3,668,198.
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Neeb, Robert P.; and Patrick, Henry W., 3,674,257.
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Gonzales, Michael; Benton, Richard H.; and Moore, William G., 3,706,457.
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Benton, Richard; and Gonzales, Michael, 3,689,074.
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English, John R., 3,680,859.
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Salter, Frank Michael; and Dibley, John Edwin, 3,706,448.
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Flid, Mark Davydovich; and Dibner, Leonid Grigorievich, 3,633,320.
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Averbach, Alexander U., 3,674,693.
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Bach, Frederick O., 3,632,208.
Bischoff, Vincent E.; and Colecchi, Paul S., 3,656,818.
Keur, Robert I.; Miller, Sandra; and Dahl, Henry A., 3,683,396.
Niesen, George P.; and Marum, Edward C., 3,703,156.
Ort, George M., 3,672,885.
Park, Woo C., 3,682,630.
Podhajny, Richard M., 3,697,264.
Rosenberger, Helen M., 3,661,598.
Rowe, Clifton B., 3,652,268.
Stone, J. James, Jr.; Madden, Thomas J., Jr.; Gerlach, Glendon T.; and Keur, Robert I., 3,673,936.
Thomas, Richard E.; Florence, Robert T.; Dalal, Rustom H.; and Scheuer, Raymond I., 3,632,364.
Zabiak, Daniel M., 3,705,043.
Zahradnik, George J.; and Pudark, Arthur A., 3,647,288.
Zahradnik, George J., 3,656,675.
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Dicke, Clarence C., 3,677,511.
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Hardesty, George K. C.; Dickey, Joseph W.; and Waltman, Donald J., Jr., 3,634,694.
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Siegfried, Edward C.; Harwell, Conner J.; and Murphy, Shields, 3,677,687.
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Crouch, Howard S.; Dickie, Hugh G.; Metcalfe, Albert H.; and Rigby, Leo J., 3,635,608.
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Krupick, Walter J.; Pilger, Allan B.; and Dickie, Robert J., 3,661,375.
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Camp, Albert T.; Dickinson, Lionel A.; and Mosher, Paul R., 3,634,158.
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Cook, Robert W.; Bissailon, Edmond J.; and Dickinson, Robert P., 3,642,032.
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Mucka, John R.; and Dickinson, William H., 3,707,064.
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Fiehler, Raymond H.; Dickman, John J.; and Diamant, Max, 3,645,012.
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Schuller, Eduard; Redlich, Horst; Dickopp, Gerhard; and Klemp, Hans-Joachim, 3,691,318.
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Kendall, Trevor William, 3,668,759.
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Glaser, Donald A.; Dutro, Lyle V.; and Pendleton, Woodrow W., 3,656,738.
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Fehling, Hans Reinhard, 3,685,706.
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Mahler, Ernst, 3,676,162.
Simon, Gunter, 3,667,181.
Stein, Hermann, 3,695,604.
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Cheltsov, Vasily Mikhailovich; Kosarev, Sergei Petrovich; and Didrikh, Nina Voldemarovna, 3,661,373.
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Anders, Walter G.; and Skolmutch, Jon S., 3,639,023.
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Anders, Walter G.; and Obermiller, Herbert C., 3,701,497.
Ekama, Pieter J., 3,701,496.
Kettering, Dale O., 3,690,593.
Krug, Newton J.; McClain, Richard B.; and Shoop, James D., 3,637,277.
Shoop, James D., 3,638,589.
Sinclair, Gordon J., 3,698,755.
Terrell, William H., 3,655,153.
Terrell, William H., 3,689,009.
- Diebold, James L.: See—
Wolf, Milton; and Diebold, James L., 3,637,706.
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Solka, James L.; Reichelderfer, Charles A.; Dieckmann, John J.; and Castello, Anthony M., 3,662,738.
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Amos, Charles William; Johnson, Maynard Dale; and Dieckmann, John Jacob, 3,685,329.
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Levine, Richard C., 3,655,917.
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Schrewe, Hans; Diederich, Gerd; Wahls, Peter; and Pfennig, Emil, 3,642,052.
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- Dieffenbache, F., GmbH Maschinenfabrik: See—
Pfeiffer, Heinrich, 3,635,626.
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Pfeiffer, Heinrich, 3,685,932.
- Dieffenbacher, J., GmbH: See—
Pfeiffer, Heinrich, 3,680,476.
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Bedall, Hans; Rentzsch, Max; and Buckey, Dieter, 3,683,814.
Burkhardt, Gottfried, 3,696,994.
Rauch, Werner, 3,637,987.
Trimpler, Walter, 3,672,151.
- Diehl, Alan. Tie down clamp. 3,707,022, 12-26-72, Cl. 24-115.00j.
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Norton, Charles J.; and Diehl, Byron C., 3,639,369.
Norton, Charles J.; and Diehl, Byron C., 3,655,736.
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- Diehl, James J.: See—
Pinner, Champ D.; Sligh, Cecil E.; Diehl, James J.; and Garland, Wade H., Jr., 3,648,163.
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Eggensperger, Heinz; Franzen, Volker; Diehl, Karl-Heinz; and Kloss, Wilfried, 3,646,110.
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Thompson, Vernon R.; and Diehl, Robert W., 3,646,177.
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Schliebs, Reinhard; Uhlig, Konrad; Oertel, Gunter; and Diehr, Hans-Joachim, 3,707,587.
- Diekhoff, Hans H.; and Schrecker, Howard D., to Aluminum Company of America. Tab element. 3,659,740, 5-2-72, Cl. 220-54.
- Diels, Manfred: See—
Schulte, Friedrich Wilhelm; Diels, Manfred; and Rosenkranz, Wilhelm, 3,672,021.
- Diem, Hans: See—
Petersen, Harro; Renner, Klaus-Christian; and Diem, Hans, 3,639,455.
- Diemond, Joseph: See—
Addison, Charles J.; and Diemond, Joseph, 3,633,221.
- Dienenthal, Herbert; and Zimmermann, Theodor, to Dango & Dienenthal Kommanditgesellschaft. Arrangement for opening and closing tapholes of metallurgical furnaces. 3,667,748, 6-6-72, Cl. 266-42.
- Diener, Albert W.: See—
Branco, Richard P.; Sprude, Edgar O.; and Diener, Albert W., 3,651,447.
- Diener, Horst: See—
Stegmeier, Gerhard; Lenhart, Helga; Gebler, Horst; and Diener, Horst, 3,639,134.
- Diener, James H., to General Motors Corporation. Energy absorbing bumper mount. 3,697,108, 10-10-72, Cl. 293-89.000.
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Gutmann, William R.; and Dienes, Edward K., 3,661,801.
- Dienes-Honeywell Holding GmbH: See—
Leufgen, Axel, 3,667,028.
- Diener, John A. Therapeutic device for arthritis. 3,654,917, 4-11-72, Cl. 128-26.
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Bresson, Richard J.; and Dierks, James E., 3,650,489.
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Honda, Takeo; and Tonegawa, Toshifumi, 3,638,031.
Inoue, Takashi; and Abe, Yoshiaki, 3,646,916.
Isobe, Hiroshi; Aoki, Hachiro; and Tanaka, Noritoshi, 3,640,258.
Jingu, Tomoyasu; and Yamamoto, Tokio, 3,654,776.
Ohtani, Yoshio; Fukushima, Akihiko; and Kakijima, Todomu, 3,636,933.
Ohtani, Yoshio, 3,670,319.
Ohtani, Yoshio, 3,682,145.
Tada, Yoshiharu; and Sawada, Minoru, 3,695,242.
- Tanaka, Noritoshi, 3,645,097.
- Yoshino, Masao, 3,659,570.
- Diessel, Karl-Heinz: See—
Buning, Robert; Diessel, Karl-Heinz; and Bier, Gerhard, 3,637,625.
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Miller, George W.; Wacker, Charles J.; and Dietel, James B., 3,662,379.
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Young, David W.; and Dieter, Jerry A., 3,697,250.
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- Ost, Walter; Klaus, Thomas; Dietrich, Jerchel; and Appel, Karl-Richard, 3,696,106.
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- Nooker, Eugene L.; Thompson, Luther G.; Varney, Glenn E.; and Dietz, Victor J., 3,690,257.
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- King, William H., Jr.; and Dietz, Walter A., 3,677,066.
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- Niedner, Peter; Diez, Gerhard; and Thubeauville, Heinz, 3,647,357.
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- Barre, Jean-Gabriel; and Diez, Jean-Marie, 3,663,679.
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- Nevala, David, 3,644,868.
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- White, Donald A., 3,675,083.
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- Walker, Jerome F.; and Daniels, Stuart F., 3,633,016.
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- Morello, Herbert; and Miller, Robert J., 3,635,424.
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- Lambert, Stephen Anthony, 3,662,360.
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- Kosmowski, Wojciech B., 3,687,467.
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- Olson, Richard L., 3,657,403.
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Huffaker, James E.; Myers, Ernest L.; Dillon, Brian D.; and Dolen, Cecil W., 3,695,573.
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Christensen, Orla, 3,676,320.
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Olson, Charles Langdon; and Dischert, Robert Adams, 3,692,918.
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Henson, Artel R., 3,664,254.
Henson, James H.; and Henson, Artel R., 3,687,053.
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Boyles, Elmo N., 3,637,053.
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Moller, Paul S., 3,672,773.
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Ruggiero, Edward M., 3,700,852.
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Dahab, Julius, 3,631,548.
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Scardiglia, Frank; Dissen, Israel J.; and Hokama, Takeo, 3,663,658.
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Ball, William John; and Gasson, Edward James, 3,670,017.
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Osieka, Hans; Koenig, Karl-Heinz; Jung, Johann; and Distler, Harry, 3,652,255.
Widder, Rudi; Distler, Harry; and Haug, Erwin, 3,664,864.
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Hopkins, Hubert Brian, 3,644,310.
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Drabek, Jan; Horak, Oto; Ditrych, Zdenek; and Zahorovsky, Svatoslav, 3,658,975.
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Levacher, Friedrich; Ditscheid, Hans Leo; Burger, Walter; Aselborn, Peter; and Cramer, Werner, 3,672,196.
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Ziegler, Carrel G.; and Hoffman, Albert H., 3,633,704.
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Rippel, Robert; Dittmar, Walter; and Schorr, Manfred, 3,687,977.
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Uhlenhaut, Rudolf; Wieland, Egon; and Dittrich, Uwe-Bernd, 3,707,095.
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Rohr, Otto; Deber, Ludwig; Dittrich, Volker; and Siegle, Heinz, 3,652,770.
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- Ditty, Rollo G.: See—
Ellis, Rollo G., 3,643,918.
- Ditz Crane: See—
Martin, Otis M.; Kough, John K.; Miller, Silas M.; and Kough, Blair B., 3,664,081.
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Kough, John K.; Martin, Otis M.; and Miller, Silas N., 3,696,570.
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Samuel, Jon Michael Glen; and Rawlings, James Earl, 3,686,051.
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Finley, Robert L.; and Sansom, Raymond E., 3,643,969.
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Griparis, Andrew Geo., 3,665,941.
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Berkus, Clyde C., 3,654,850.
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Boyce, Kenneth D., 3,654,449.
- Welch, Robert H.; and Boyce, Kenneth D., 3,683,159.
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Wallace, George O., 3,654,870.
- Diversified Inventory Systems, Inc.: See—
Goodwin, Arthur J., 3,665,167.
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Pope, George F., 3,697,188.
- Diversified Medical Corporation: See—
Falenks, John, 3,674,010.
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Nolan, Michael Francis; and Storie, Elmer John, 3,649,490.
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Hall, Harry P., 3,690,490.
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- Dixie-Narco, Inc.: See—
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- Steeley, Roy S., 3,680,937.
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- Dixon, Rolland E.; and Sherk, Fred T., to Phillips Petroleum Company. Hydrocarbon conversion. 3,704,334, 11-28-72, Cl. 260-683.430.
- Dixon, Ronald L., to Eastman Kodak Company. Tobacco smoke filter element and method for making. 3,678,941, 7-25-72, Cl. 131-261.00b.
- Dixon, Roy C.; Hash, Larry J.; and Steen, Robert F., to International Business Machines Corporation. Line control adapter for synchronous digital formatted message communications system. 3,633,168, 1-4-72, Cl. 340-167.
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- Dixon, Ted A. Nebulizer and tent assembly. 3,703,173, 11-21-72, Cl. 128-194.000.
- Dixon, Thomas P.; and Worrell, Robert J., to United Aircraft Corporation. Fluid pressure variation sensor and indicator. 3,677,218, 7-18-72, Cl. 116-70.000.
- Dixon, William D., to Monsanto Company. Benzothiazolinyldiene substituted ureas. 3,671,531, 6-20-72, Cl. 260-305.000.
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Shilton, Brian R.; and Byron, Donald J., 3,635,460.
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- Dluhy, Herbert, to American Export Isbrandtsen Lines, Inc. Shipping container with racks for supporting vehicles therein. 3,675,795, 7-11-72, Cl. 214-16.1cc.
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Andrusenko, Petr Ivanovich; Dolganov, Kint Evgenievich; Kovalev, Alexandr Ivanovich; Berezhovsky, Pavel Iosipovich; Dmitrenko, Vladimir Ilich; Shukshin, Nikolai Pavovich; Gutarevich, Jury Feodosievich; Kislov, Vladimir Grigorievich; Chevtayev, Andrei Vasilievich; Koshman, Eduard Ivanovich; and Filippov, Vladimir Vasilievich, 3,676,023.
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Caroli, Italo, 3,646,801.
- DMZ "Anton Ivanor": See—
Grigorov, Tzvetan Blagofv, 3,680,255.
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- Doak, Richard L. Method of forming and installing automobile tail pipe. 3,636,606, 1-25-72, Cl. 29-157.3.
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- Doane, Ernest E. Method of making footwear having insole and intermediate sole of three-dimensional shape. 3,662,415, 5-16-72, Cl. 12-145.
- Doane, Frank: See—
Hamilton, Otis L., 3,670,903.
- Doane, John Charles: See—
Lusti, John; and Doane, John Charles, 3,703,222.
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Wurmbrand, Mihai; and Doane, John L., 3,669,056.
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Zito, Santo, 3,631,818.
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Brown, Carl W.; Reppert, Allen B.; and Dobbins, Billy D., 3,677,500.
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Mayer, George L., Jr.; and Dobbins, David L., 3,676,000.
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Ogilvy, Harry Heggie; Tuck, Elizabeth Margaret; Dobbs, David John Miller; and Rosser, John Anthony, 3,685,454.
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Dobbs, Richard H., 3,685,363.
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- Dobies, Edwin F.: *See—*
United States of America, National Aeronautics and Space Administration, 3,704,659.
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Brown, Thomas D.; Rushforth, Michael; Dobinson, Bryan; Wilson, Walter; and Winterbottom, Kenneth, 3,645,781.
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- Dobkin, Lloyd: *See—*
Butler, Louise; Dobkin, Lloyd; and Ellner, J. Robert, 3,687,090.
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Christie, Gerald Anthony; and Doble, Brian Reginald, 3,677,678.
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- Dobler, Christian D.; and Lilly, Herbert J., Jr., to Subsea Equipment Associates Limited, mesne. Method for connection of an underwater riser to a floating facility. 3,677,310, 7-18-72, Cl. 141-1.
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Pugsley, Peter C.; and Dobouney, Mouayed Edouard, 3,634,611.
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Gergle, Robert G.; and Dobrasevic, Zdravko D., 3,663,002.
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- Dobrauz, John W.: *See—*
Bardwell, Francis G.; Dobrauz, John W.; and Sobchak, Frank L., 3,704,373.
- Dobrinich, Dennis: *See—*
Lewis, William E.; and Dobrinich, Dennis, 3,638,773.
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Zhukovsky, Alexandr Ivanovich; Dobroskokov, Anatoly Lukich; and Orlovsky, Vasily Ivanovich, 3,675,772.
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Kuhl, Bernhard; and Dobrusskin, Alexander, 3,654,506.
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Shortway, Harry A.; Graham, Alan A.; Mansolillo, Robert D.; and Dobry, Joseph F., 3,660,187.
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Kirk, Merritt C., Jr.; and Dobson, Ernest W., 3,647,679.
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Davis, Martin A.; and Dobson, Thomas A., 3,641,038.
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Taylor, Laurence William; Town, Frank; and Omiotek, Emil, 3,631,681.
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Reiner, Thomas; and Dobyns, Edward, 3,663,046.
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Wolf, Stanley, 3,701,205.
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- Docker, Leslie Thomas. Spring interiors and articles combining spring interiors. 3,681,798, 8-8-72, Cl. 5-351.000.
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Docker, Emerson W., 3,680,887.
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Bleher, Johannes Hartmut; Chang, Chi Shih; and Dockerty, Robert Charles, 3,705,419.
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Young, Richard K.; and Dockery, Calvin D., 3,655,848.
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Platz, Rolf; Nohe, Heinz; and Dockner, Toni, 3,642,889.
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Belter, John W.; Dockter, Leroy; and Ellman, Robert C., 3,668,145.
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Ege, Hans Raymond; and Doctor, Walter L., Jr., 3,670,295.
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Halbert, Silas Ray, 3,690,644.
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Call, Henry M.; Crain, Norman Robert; Crain, William W.; Pollitt, Gary L.; and Rea, Donald E., 3,684,864.
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- Crain, Norman Robert; and Rea, Donald E., 3,639,732.
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Goldstein, Kenneth S.; and White, John D., 3,662,343.
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Trovati, Louis, 3,664,401.
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Samm, Ralph W.; Perry, Robert F.; and Dodge, David S., 3,660,720.
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Gelbard, Robert B.; Dodge, Gerald F., III; and True, Howard D. F., Jr., 3,678,698.
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- Dodge, Harry G.; and Spontelli, Leonard P., to Crawford Fitting Company. Gripping device. 3,661,378, 5-9-72, Cl. 269-131.
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Aisenberg, Sol; and Dodge, James B., 3,675,451.
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Dodgen, John N., 3,635,366.
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Wald, Ernst A.; and Dodson, Joseph J., Jr., 3,706,205.
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Annis, Darrell D.; Dodson, Keith D.; and Sykes, Paul M., 3,669,931.
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Cederstrand, Carl N.; and Dodson, Michael, 3,648,162.
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Cunningham, Victor Ralph; and Dodson, Thomas Stanley, 3,696,180.
- Dodsworth, Edward: *See—*
Gaunt, Thomas Norman; and Dodsworth, Edward, 3,645,825.
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Carruthers, John; Knight, Warren Nevin Norton; and Dodwell, Christopher Henry, 3,691,066.
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MacDonald, Hugh D.; and Doebley, Eugene J., 3,698,183.
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Bemmels, Cyrus W.; and Doehnert, Donald F., 3,707,518.
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Falkenstein, Georg; Peine, Hans Georg; Doerfel, Helmut; Raff, Paul; and Schuster, Ludwig, 3,703,595.
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Bratzler, Karl; Doerges, Alexander; Hochgesand, Gerhard; and Grunewald, Gerhard, 3,653,810.
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Heim, Kenneth J.; and Rimmner, Fred F., 3,670,605.
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Ulrich, Klaus-Herbert; Doering, Dieter; and Borowski, Kurt, 3,661,725.
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Vogelaar, Bernard Francis; Doering, James Peter; and Pasturezak, Felix Stanley, 3,636,684.
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Clay, Robert B.; and Doering, William A., 3,649,138.
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Hansen, John A.; and Doerrfeld, Robert E., 3,675,959.
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Bokov, Jury Sergeevich; Vikulina, Ninel Vladimirovna; Dogadkin, Boris Aristarkhovich; Erofeev, Boris Vasilievich; Larina, Anastasia Vasilievna; Lavrishev, Vadim Petrovich; Markov, Vladimir Vladimirovich; Naumova, Sofia Fadeevna; Jurina, Olga Demidovna; an Yarovaya, Galina Dmitrievna, 3,674,496.
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Beuk, Ljubomir; Dogadko, Peter; and Sansbury, Larry, 3,669,086.
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Anderson, Harold; Cain, Jerry Blanchard; and Doggett, John G., Jr., 3,696,432.
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Bernard, David L.; and Doheny, Anthony J., Jr., 3,657,161.
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Burckhardt, Christoph B.; and Doherty, Edward T., 3,676,130.
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Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,647,866.
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Matsuda, Hideaki; Okamoto, Takanori; and Dohim, Hidemi, 3,689,427.
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Dohmeier, Arnold; and Schwedhelm, Diether, 3,673,765.
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Desai, Ramesh R.; and Dohn, George D., 3,669,815.
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Simon, Wilhelm; Moller, Willi; and Dohner, Rene, 3,647,666.
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Pollack, Isidore; and Dohogne, Charles L., 3,652,432.
- Dohogne, Linus E.: *See—*
Koehler, Albert T.; Shideler, Paul J.; and Dohogne, Linus E., 3,673,950.
- Dohr, Manfred: *See—*
Fries, Walter; Berg, Markus; Dohr, Manfred; and Kirstahler, Alfred, 3,676,338.
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Stephens, Thomas M., 3,647,385.
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Hirai, Akiyoshi; Doi, Kaname; and Noguchi, Takeshi, 3,688,876.
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Nakamura, Hiroto; Doi, Ken-Ichi; Sato, Akira; and Suzuki, Yushin, 3,660,708.
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Iemura, Toshio; Doi, Masaru; and Shimizu, Yoshiaki, 3,674,944.
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Nakao, Yoshio; Kikuchi, Masakazu; Suzuki, Masaru; and Doi, Muneharu, 3,654,078.
- Doi, Takao: *See—*
Oishi, Asao; Doi, Takao; and Ueno, Yoshimasa, 3,658,436.
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Naito, Ryoichi; Oguro, Yoshigoro; and Doi, Takuji, 3,639,566.
- Doi, Tatsumi: *See—*
Suzuki, Ruuzo; Sato, Sumihisa; Okamoto, Shuji; Shinozaki, Akira; and Doi, Tatsumi, 3,687,542.
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Kawabe, Ushio; Kimura, Hiroshi; and Doi, Toshio, 3,662,689.
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Nouveau, Henry, 3,660,135.
- Doiuchi, Toru: *See—*
Fujimoto, Yasuo; Tatsukawa, Keizo; and Doiuchi, Toru, 3,635,909.
- Doki, Yoshikuni, to Honeywell Inc. Automatic-manual change-over switch capable of providing pressure indication. 3,698,247, 10-17-72, Cl. 73-388.0r.
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Yoda, Naoya; Kubota, Takashi; Kurihara, Masaru; Dokoshi, Noriaki; and Yoshihi, Toshiya, 3,682,860.
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Doland, George D.; Doland, George D.; and Doland, Charles M., 3,637,037.
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Doland, George D.; Doland, George D.; and Doland, Charles M., 3,637,037.
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Dolby, Ray Milton, 3,665,345.
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Ma, Carlton Y.; and Dold, Klaus, 3,666,141.
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Berger, Herbert; Stach, Kurt; Dold, Otto; Voemel, Wolfgang; and Sauer, Winfriede, 3,658,796.
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Jones, William H.; and Hamilton, Martin W., 3,655,002.
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Huffaker, James E.; Myers, Ernest L.; Dillon, Brian D.; and Dolen, Cecil W., 3,695,573.
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Mancuso, John J.; Litchult, Theodore F.; and Dolezal, Foods M., 3,653,911.
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Edwards, Douglas C.; and Dolezal, Premysl Thomas, 3,635,865.
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Tregembo, Rhoderic; Dolezal, Wayne R.; Boughton, Lowell D.; and Stewart, John D., 3,690,106.
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Narayanan, Venkatachala Lakshmi; and Dolfini, Joseph Edward, 3,705,906.
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Andrusenko, Petr Ivanovich; Dolganov, Kint Evgenievich; Kovalev, Alexandr Ivanovich; Berezovsky, Pavel Iosipovich; Dmitrenko, Vladimir Ilich; Shukshin, Nikolai Pavolich; Gutarevich, Jury Feodosievich; Kislov, Vladimir Grigorievich; Chevtayev, Andrei Vasilievich; Koshman, Eduard Ivanovich; and Filippov, Vladimir Vasilievich, 3,676,023.
- Dolgov, Anatoly Mikhailovich: *See—*
Tatianko, Nikolai Vasilievich; Tsybal, Alexandr Gavrilovich; Stetsenko, Vladimir Vasilievich; Isikov, Sergei Alexandrovich; Rodenko, Fedor Leontievich; Betcher, Alexandr Samuilovich; Shamrai, Petr Dmitrievich; Dulya, Mikhail Afanasievich; Dudka, Viktor Vailievich; Klimchuk, Ivan Petrovich; and Dolgov, Anatoly Mikhailovich, 3,664,431.
- Dolgova, Ekaterina Nikolaevna: *See—*
Plachenov, Tikhon Grigorievich; Belotserkovsky, Grigory Markovich; Dolgova, Ekaterina Nikolaevna; Ezhov, Jury Valentinovich; Fogel, Vladimir Alexandrovich; Benediktov, Andrei Pavlovich; and Avilov, Iliya Yakovlevich, 3,704,806.
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Mosier, James A.; and Dolister, Harold H., 3,689,972.
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Doll, Henri Georges; and Broner, Hans J., 3,659,591.
- Doll, Willy: *See—*
Streschnak, Benno; and Doll, Willy, 3,644,614.
- Dollac Division, Jacoby-Bender, Inc.: *See—*
Gardel, Robert; Gorsky, Egon; and Turshen, Richard S., 3,636,653.
- Leibowitz, William, 3,664,059.
- Dollacker, Werner: *See—*
Gruber, Wolfgang; Bernst, Erich; Wahlefeld, August Wilhelm; and Dollacker, Werner, 3,653,836.
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Verhoeven, Leonardus Adrianus Johannes; and Dollkamp, Hendrikus, 3,646,458.
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Grigat, Ernst; Schultheis, Heinz; Bock, Eugen; and Dollhausen, Manfred, 3,658,623.
- Oertel, Gunter; Holtschmidt, Hans; Dollhausen, Manfred; and Bock, Eugen, 3,707,486.
- Dollinger, Robert E.: *See—*
Frazier, Arthur E.; and Dollinger, Robert E., 3,645,765.
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- Dollman, Stephen C.: *See—*
Lane, George A.; Smith, William Arthur; Dollman, Stephen C.; Kaye, Seymour M.; and Taylor, Francis R., 3,673,013.
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Mazdiyasi, Khodabakhsh S.; Dolloff, Richard T.; and Smith, Jonathan S., II, 3,647,364.
- Dollond and Aitchison Services Ltd.: *See—*
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- Dolman, Hendrik; and Tempel, Albert, to U.S. Philips Corporation. Method and composition for combatting fungicidal infections. 3,632,771, 1-4-72, Cl. 424-302.
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- Dolton, Glen D.: *See—*
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- Dom, Harry A.: *See—*
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- Domain Industries, Inc.: *See—*
Early, Judson H., 3,664,222.
- Klevgard, Glenn A., 3,656,206.
- Zellmer, August R.; and Tetric, John D., 3,648,432.
- Doman, Donald Wayne; and Sauey, Lawrence Kenneth, to Flambeau Plastics Corporation. Ice cube bin. 3,642,162, 2-15-72, Cl. 220-1.
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- Wolffing-Seelig, Gerhard; Conzelmann, Gerhard; Schirmer, Gunter; and Domann, Helmut, 3,634,677.
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- Domansky, Radislav: See—
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- Domba, Elemer, to Nalco Chemical Company. Quaternary fluorsilicon dispersant. 3,700,844, 10-24-72, Cl. 260-404.500.
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- Dombeck, Edward K., to Bendix Corporation, The. Surge brake control. 3,647,032, 3-7-72, Cl. 188-112.
- Dombeck, Edward K., to Bendix Corporation, The. Brake lining wear indicator. 3,662,863, 5-16-72, Cl. 188-1.
- Dombro, Robert A.: See—
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- Dombro, Robert A., to Universal Oil Products Company. Preparation of ether esters of carboxylic acids. 3,639,456, 2-1-72, Cl. 260-484.
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- Dombroski, Edward L. Tile structure with cruciform shaped foundation supporting tiles. 3,676,971, 7-18-72, Cl. 52-603.000.
- Dombroski, Frank P., to American Cyanamid Company. Inks containing naphthyl-azo- α -hydroxy-naphthoic acid pigments and method. 3,666,503, 5-30-72, Cl. 106-30.000.
- Dombrowski, Theodor, to Wilhelm Hegenscheidt Kommanditgesellschaft. Apparatus for reworking wheels on a rail vehicle. 3,667,329, 6-6-72, Cl. 82-8.000.
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- Dome, Peter, to Societe Suisse pour l'Industrie Horlogere S.A. Variable capacitor. 3,659,165, 4-25-72, Cl. 317-249.
- Dome, Peter, to Societe Suisse pour l'Industrie Horlogere S.A. Driving mechanism for electronically controlled timepiece. 3,665,697, 5-30-72, Cl. 58-23.
- Dome, Peter, to Societe Suisse pour l'Industrie Horlogere S.A. Date indicating mechanism for watches. 3,704,583, 12-5-72, Cl. 58-58.000.
- Domek, John A., to Efdyn Corporation. Adjustable shock absorber. 3,645,365, 2-29-72, Cl. 188-285.
- Domen, Steve R., to United States of America, Health, Education and Welfare. Calorimeter. 3,665,762, 5-30-72, Cl. 73-190.00r.
- Domenichini, Carlo P.; and Terjenian, Leo, to Raytheon Company. Capacitive filter for suppression of spurious electrical radiation. 3,681,652, 8-1-72, Cl. 315-85.000.
- Domenico, Penelope B., to Dow Chemical Company, The. Polyhalopyridylthio-, sulfinyl- and sulfonylalkylnitriles. 3,634,436, 1-11-72, Cl. 260-294.8.
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- Domenico, Penelope B., to Dow Chemical Company, The. Polyhalo-4-nitropyridines. 3,651,066, 3-21-72, Cl. 260-290.
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- Domenighetti, Domenico. Vibrations generator with multiple shafts in series, especially for vibrating tamping means. 3,668,983, 6-13-72, Cl. 94-50.
- Domergue, Annick Marthe Suzanne Simone: See—
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- Domicone, Joseph J., to Corning Glass Works. Surface treatment of glass-ceramics. 3,666,559, 5-30-72, Cl. 134-3.
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- Domin, Heinz, to Bremshy & Co., Firma. Tilting table. 3,656,439, 4-18-72, Cl. 108-113.
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- Domina, Edward Y. Process for the treatment of benign prostatic hypertrophy. 3,639,615, 2-1-72, Cl. 424-280.
- Domine, Daniel; and Jay, Leon, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Method of separation by substantially isothermal selective adsorption of a gaseous mixture. 3,638,398, 2-1-72, Cl. 55-25.
- Domini, Gianfranco: See—
Geloso, Giovanni, 3,679,845.
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- Dominiak, Joseph W.; and Warthen, William P., to Deering Milliken Research Corporation. Method of coating the cut edge of a fabric. 3,632,383, 1-4-72, Cl. 117-44.
- Dominion Auto Accessories Limited: See—
Magi, Hugo; and Smith, John, 3,651,321.
Magi, Hugo, 3,666,940.
- Dominion Bridge Company Limited: See—
Cape, Richard Allan Gordon, 3,667,274.
Graville, Brian Anthony, 3,674,973.
Hagen, William Dobson, 3,673,658.
Horsley, Edward A., 3,657,493.
Kerkham, Algernon; and Eunsion, Charles, 3,632,002.
Mutch, Robert Douglas, 3,674,302.
- Dominion Engineering Works, Limited: See—
Rodwin, Stephen Anthony, 3,633,284.
Rodwin, Stephen Anthony, 3,668,785.
Rodwin, Stephen Anthony; and Shuffler, Eustace Cosmo, 3,694,926.
- Sproule, Robert Stanley, 3,635,582.
Truxa, Leslie, 3,647,620.
Williams, Stanley C., 3,669,830.
- Wood, John Frederick Barry; and Field, Michael Frank, 3,648,507.
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- Dominion Envelope Company Limited: See—
MacDougall, Bruce A., 3,652,007.
- Dominion Foundries and Steel Limited: See—
Dobson, Richard N.; Boyce, Kenneth E.; Gaiser, John A.; and Gris, Conrad David, 3,704,670.
- Dominion Gasket & Manufacturing Co., Limited: See—
Nelson, Robert S., 3,666,389.
- Dominion Luggage Co., Limited: See—
Slan, Jack, 3,694,540.
- Dominy, Beryl William, to Pfizer Inc. Preparation of quinoxaline-din-oxides from O-quinoxalinedioxime and butene-1,4-diones. 3,679,679, 7-25-72, Cl. 260-250.00r.
- Dominy, Francis I., to Burdick Corporation, The. Cardiac monitoring apparatus for a plurality of patients. 3,648,689, 3-14-72, Cl. 128-2.06.
- Domke, Klaus, to Fr. Hesser Maschinenfabrik A.G. Heat seal tool. 3,669,810, 6-13-72, Cl. 156-583.000.
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- Dommasch, Daniel O., to United States of America, Federal Aviation Administration. Air data lateral-directional stability augmentation system. 3,636,324, 1-18-72, Cl. 235-150.2.
- Domnick, Arno. Assemblies of inter-linked pre-fabricated members for forming a path. 3,685,403, 8-22-72, Cl. 94-13.000.
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- Domokos, Jozsef; Benedek, Gyorgy; Kiss, Bela; Winkler, Laszlo; and Beller, Zoltan, to Hajtomu-es Felvonogyar. Method for coating metal workpieces with water soluble or colloidal coloring matter emulsified in water. 3,676,316, 7-11-72, Cl. 204-181.
- Domovs, Kelvin B.: See—
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- Domres, Franklin W. Pulp cutting and loading machine. 3,688,818, 9-5-72, Cl. 143-46.00r.
- Domres, Hans Georg; Simons, Emil; and Gillhaus, Horst, to Brown, Boveri & Cie Aktiengesellschaft. Movable casting apparatus. 3,685,573, 8-22-72, Cl. 164-335.000.
- Domtar Limited: See—
Fedosoff, Joseph P.; and Trebish, John R., 3,682,601.
- Domulewicz, Raymond J., Sr. Stopper block. 3,662,986, 5-16-72, Cl. 251-144.
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- Domyan, Frank Francis: See—
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- Don Carlos, Tex. Advertising sign. 3,634,960, 1-18-72, Cl. 40-125.
- Don, Gunter, to Siempelkamp, G., & Co. Apparatus for forming a stack. 3,704,883, 12-5-72, Cl. 271-72.000.
- Donadello, Graziello: See—
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- Donadio, Vincent J., to United States of America, Army. Flechette manufacturing machine. 3,695,310, 10-3-72, Cl. 140-71.000.
- Donaghay, Richard Hugh: See—
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- Donaghu, Fay J., to Kerr-McGee Chemical Corporation. Peroxygen composition containing an alkali metal silicate and an organic acid anhydride. 3,640,876, 2-8-72, Cl. 252-99.
- Donahoe, Joseph F.; and Macalalad, Fidel V., to Abbott Laboratories. Manometer with sliding adjustable scale and meniscus indicator. 3,693,612, 9-26-72, Cl. 128-205.00d.
- Donahue, John A.: See—
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- Donahue, Leo O.; and Behrens, Roy E., to Graphic Engineering, Inc. Conveyor mechanism. 3,659,699, 5-2-72, Cl. 198-165.
- Donahue, Patrick H., to Bird & Son, Inc. Building corner unit. 3,651,610, 3-28-72, Cl. 52-278.
- Donahue, Stephen F.: See—
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Wallies, Wilhelm E.; Caiola, Robert J.; and Donald, Harold J., 3,685,446.
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- Donald, John Henry: See—
Edwards, John David; Perkins, Leonard; Donald, John Henry; Chappell, Peter Lee; Newcombe, Sean Benjamin; and Roe, Malcolm David, 3,697,729.
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- Donald, Philip Joseph, to RCA Corporation. Method of pressure treating electrophotographic recording elements to change their sensitivity to light. 3,681,071, 8-1-72, Cl. 96-1.800.
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Johnson, Lemoine L.; and Timmons, William P., 3,696,666.
Rolland, William C., 3,695,012.
Rowley, Douglas W.; and Campbell, John A., 3,672,464.
Sullivan, Bruce M.; and Kaus, Carl M., 3,672,130.
- Donaldson, Darrell J.: See—
Beninate, John V.; Daigle, Donald J.; Drake, George L., Jr.; Reeves, Wilson A.; and Donaldson, Darrell J., 3,697,316.
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- Donaldson, David, to Container Corporation of America. Moulded container. 3,643,855, 2-22-72, Cl. 229-2.5.
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- Donaldson, David, to Container Corporation of America. Moulded container. 3,662,943, 5-16-72, Cl. 229-2.5.
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- Donaldson, George R.: See—
Williams, Archibald H.; Germanas, Dalia; and Donaldson, George R., 3,637,881.
- Donaldson, George W., to Westinghouse Air Brake Company. Car propulsion scheme utilizing married pairs of propulsion units. 3,656,037, 4-11-72, Cl. 318-59.
- Donaldson, Gordon W.; Graham, Charles D., Jr.; and Hart, Howard R., Jr., to General Electric Company. Superconductive magnets. 3,665,351, 5-23-72, Cl. 335-216.
- Donaldson, John C., Jr., to EG & G Inc. Programmable computer-peripheral interface. 3,673,576, 6-27-72, Cl. 340-172.500.
- Donaldson, John G., to Sylvania Electric Products, Inc. Localized electroplating method. 3,644,181, 2-22-72, Cl. 204-15.
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- Donaldson, Peter Eden Kirwan: See—
Brindley, Giles Skey; and Donaldson, Peter Eden Kirwan, 3,699,970.
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Stucky, Duane L.; Donaldson, Richard G.; and Alexander, Allen D., 3,668,397.
- Donaldson, William K.; Wilke, Werner; and Fetzer, Hans. Production of coherent bodies from asbestos dispersions. 3,634,568, 1-11-72, Cl. 264-103.
- Donalies, Daniel J., to Xerox Corporation. Centrifugal development apparatus and method. 3,664,297, 5-23-72, Cl. 118-627.
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- Donat, Ralph J.: See—
Kauffman, John H.; and Donat, Ralph J., 3,635,447.
- Donato, Anthony C., to Lightolier Incorporated. Multiple access electric power distribution assembly. 3,676,830, 7-11-72, Cl. 339-21.00r.
- Donato, Thomas C. Fishing rod line guide and mounting. 3,702,514, 11-14-72, Cl. 43-24.000.
- Donche-Gay, Pierre, to American Engineering Company Limited. Reinforcing rod machine. 3,690,349, 9-12-72, Cl. 140-63.000.
- Donegan, Dennis J., to McDonnell Douglas Corporation. Window shade assembly. 3,691,686, 9-19-72, Cl. 49-56.000.
- Doner, Abraham J.; deceased (by Doner, Cyril; executor), to Miles Laboratories, Inc. Sunscreen formulation containing triethanolamine neutralized 2-hydroxy-4-methoxy-benzophenone-5-sulfonic acid. 3,670,074, 6-13-72, Cl. 424-60.000.
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- Doner, John T., to Whirlpool Corporation. Removable door structure. 3,677,259, 7-18-72, Cl. 126-194.000.
- Donham, James E., to Amoco Production Company. Reaction products of substituted imidazolines and amino tri (lower alkylidene)phosphonic acids. 3,699,118, 10-17-72, Cl. 260-309.600.
- Donich, Thomas G.: See—
Charters, Robert L.; Bartlemay, James M.; Folline, John M.; and Donich, Thomas G., 3,701,120.
- Doniger, Jerry: See—
Pfersch, George H., Jr.; and Doniger, Jerry, 3,667,057.
- Doniguian, Thaddeus M.: See—
Kipps, Harry J.; and Doniguian, Thaddeus M., 3,692,650.
- Doniguian, Thaddeus M., to I.M.I. Division of Becton, Dickinson and Company. Fluid sensor cap assembly. 3,666,650, 5-30-72, Cl. 204-195.
- Doniguian, Thaddeus M., to I.M.I.; division of Becton, Dickinson and Company. Controlled atmosphere incubator system with oxygen probe. 3,680,557, 8-1-72, Cl. 128-185.000.
- Donini, Pietro, to Istituto Farmacologico Sero S.p.A. Procedure for obtaining pituitary gonadotropic hormones from urine. 3,674,865, 7-4-72, Cl. 424-99.000.
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- Donjon, Jacques, to Societe de Fabrication d'Instruments de Mesure (S.F.I.M.). Electrical signal sampling device. 3,665,496, 5-23-72, Cl. 307-251.
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- Donley, Harold E., to PPG Industries, Inc. Method of forming metal oxide coatings on refractory substrates. 3,658,568, 4-25-72, Cl. 117-46.
- Donley, Harold E.; Rieser, Raymond G.; and Wagner, William E., to PPG Industries, Inc. Coated glass sheet and method for making the same. 3,660,061, 5-2-72, Cl. 65-32.
- Donlon, Richard H.: See—
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- Donlon, Richard H., to Transportation Technology, Inc. Air bearing conveyor. 3,653,485, 4-4-72, Cl. 198-25.
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- Donnan, David H., to Guaranty National Bank and Trust of Corpus Christi. Holder of credit card receiving machine. 3,643,809, 2-22-72, Cl. 211-49.
- Donnat, Jean-Charles: *See—*
- Fresard, Marcel; and Donnat, Jean-Charles, 3,639,877.
- Donnell, Derrick: *See—*
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- Donnell, Howard Kenneth: *See—*
- Einthoven, Willem Gerard; and Donnell, Howard Kenneth, 3,664,894.
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- Donnelly, Harold F., to Kimberly-Clark Corporation. Surgical drape. 3,668,050, 6-6-72, Cl. 161-39,000.
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- Donner, Klaus: *See—*
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- Donofrio, Nicholas M.; and Pomeranz, Jehoshua N., to International Business Machines Corporation. Monolithic memory sense amplifier/bit driver. 3,676,704, 7-11-72, Cl. 307-235,000.
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- Schlack, Allen F.; McNally, Thomas J.; and Doris, Thomas A., Jr., 3,633,512.
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- Tillmann, Horst, 3,668,737.
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- Brokke, Mervin E.; Menn, Julius J.; and Dorman, Stephen C., 3,642,958.
- Dormanns, Stefanie: *See—*
- Furst, Stefan, 3,648,459.
- Dorme, Nicole A. M.: *See—*
- Gautier, Jean A.; Miocque, Marcel Y.; Moskowitz, Henri; Blanc-Guenee, Janine L.; Raynaud, Guy M.; and Dorme, Nicole A. M., 3,655,762.
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- Coleman, John R., Jr.; Hall, David W.; and Dormish, Frank L., 3,636,124.
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- Seifert, Helmut; Stephan, Hans Werner; and Dorn, Friedrich Wilhelm, 3,692,917.
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- Heise, Georg, 3,678,692.
- Kannmuller, Gerhard; Kosziech, Karl-Heinz; Goller, Werner; Kugler, Walter; and Muller, Yorck, 3,637,322.
- Kosziech, Karl-Heinz; and Teschner, Kurt, 3,697,024.
- Partzsch, Peter, 3,670,569.
- Dornier G.m.b.H.: *See—*
- Zimmer, Herbert, 3,638,886.
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- Kubler, Manfred, 3,700,190.
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- Radimirsch, Karl; and Schwarz, Dietrich, 3,682,463.
- Romhild, Peter; and Herpfer, Eugen, 3,669,371.
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- Hoff, Gunter; and Langbein, Gerhard, 3,700,488.
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- Hanslik, Wilhelm, 3,640,669.
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- Snow, Gerald A.; Doughty, Harold A.; Allard, Charles E.; and Noonan, Charles B., 3,688,963.
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- Douglas, Beverly; and Mann, George V. Chemically heated container. 3,653,372, 4-4-72, Cl. 126-263.
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- Perron, Yvon G.; and Douglas, James L., 3,696,145.
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- Schlaue, Floyd E.; Bosley, Denis V.; Crain, Philip W.; and Douglas, Raymond J., 3,675,361.
- Douglas, Robert A. Apparatus for and method of manufacturing diffraction gratings. 3,639,991, 2-8-72, Cl. 33-19.
- Douglas, Robert D. Radar range mark calibrator. 3,641,574, 2-8-72, Cl. 343-17.7.
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- Kouvel, James S.; Lommel, James M.; and Douglas, Thomas E., 3,637,442.
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- Douglas-Hamilton, Diarmid H.: *See—*
- Daugherty, Jack D.; Douglas-Hamilton, Diarmid H.; Patrick, Richard M.; and Pugh, Evan R., 3,702,973.
- Douglass, Allan O.; and Douglass, Robert F. Portable drill guide. 3,667,855, 6-6-72, Cl. 408-114.
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- Falkenberg, Douglass R., 3,693,219.
- Douglass, Paul W.; and Koehler, Joseph E., to Gillette Company. The safety razor. 3,648,368, 3-14-72, Cl. 30-60.5.
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- Douglass, Robert F.: *See—*
- Douglass, Allan O.; and Douglass, Robert F., 3,667,855.
- Douglass, William M.: *See—*
- Cathers, Richard T.; Douglass, William M.; Hess, Frederick D., Jr.; Morris, John; and Roberts, James E., 3,666,211.
- Douillet, Robert: *See—*
- Manuali, Bertrand Claude Marcel Jean; Douillet, Robert; and Laedlein, Denis Jacques, 3,648,114.
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- Rosenstock, Milton M.; and Doundoulakis, George J., 3,643,540.
- Dounoucos, Angelo; and Harrison, John W., to General Electric Company. Aircraft closed circuit breathing system. 3,664,359, 5-23-72, Cl. 137-81.000.
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- Stoudenheimer, Richard G.; and Dourte, Rodger P., 3,697,794.
- Doussat, Remy, to Societe Nouvelle des Ateliers de Venissieux. Container. 3,680,728, 8-1-72, Cl. 220-4.00r.
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- Amolsch, William; and Maher, Robert J., 3,671,124.
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- Doutt, Thomas D.: *See—*
- Doutt, Oliver; and Doutt, Thomas D., 3,656,801.
- Douty, Donald L., to United States Steel Corporation. Can end with banded seal slide. 3,703,979, 11-28-72, Cl. 221-484.000.
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- Douty, Robert Albert: *See—*
- Schwartzbart, Harry; and Douty, Robert Albert, 3,684,239.
- d'Ouille, Edmond L.: *See—*
- Messman, Henry C., 3,647,416.
- Douzon, Colette A.: *See—*
- Fauran, Claude P.; Raynaud, Guy M.; Oliver, Rene A.; and Douzon, Colette A., 3,641,036.
- Fauran, Claude P.; Raynaud, Guy M.; Gouret, Claude J.; and Douzon, Colette A., 3,642,806.
- Fauran, Claude P.; Raynaud, Guy M.; Oliver, Rene A.; and Douzon, Colette A., 3,655,687.
- Fauran, Claude P.; Raynaud, Guy M.; Pourrias, Bernard M.; and Douzon, Colette A., 3,665,014.
- Fauran, Claude P.; Gouret, Claude J.; Raynaud, Guy M.; and Douzon, Colette A., 3,687,965.
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- Giddey, Claude; and Dove, Georges, 3,653,919.
- Dovel, John S. Portable hand-held steamer. 3,695,066, 10-3-72, Cl. 68-222.000.
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- Bertrem, Bradley E., 3,656,712.
- Boudot, William Donald; and Carl, Robert C., 3,647,182.
- Boudot, William Donald; Wood, Chester W.; and Holder, Charles A., 3,653,415.
- Joseph, Lawrence Flower, 3,647,027.
- McMath, Jack A., 3,672,563.
- Moore, Glenn E.; Wilson, Fred A.; and Wood, Chester W., 3,646,974.
- Reece, Thomas L., 3,692,178.
- Wilder, Paul R.; and Smallwood, Donald L., 3,704,817.
- Wilson, Fred A.; and Allen, Norman T., 3,672,403.
- Dover Corporation (Canada) Limited: *See—*
- Gingrich, John A., 3,706,017.
- Dover Corporation, mesne: *See—*
- Bernard, Arthur A.; and Bernard, Richard A., 3,676,640.
- Reece, Thomas L.; and Bryant, Thurman E., 3,703,465.
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- Williams, Robert J., 3,640,418.
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- Dow Badische Company: *See—*
- Tzentia, Leonidas S., 3,706,828.
- Dow Chemical Company Limited: *See—*
- Davies, Thomas Ellis; and Hopkins, Hubert Brian, 3,639,518.
- Dow Chemical Company, The: *See—*
- Abdallah, Abdulmunim H., 3,646,204.
- Alley, Earl G.; and Pews, Richard Garth, 3,657,358.
- Anderson, Gene A., 3,696,873.
- Anderson, Richard W.; and Frick, Hughie R., 3,641,020.
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- Anderson, Richard W.; and Frick, Hughie R., 3,661,967.
- Anderson, Richard W.; and Frick, Hughie R., 3,682,876.
- Anderson, Richard W.; and Frick, Hughie R., 3,696,154.
- Archer, Wesley L.; and Simpson, Elbert L., 3,646,229.
- Archer, Wesley L.; and Simpson, Elbert L., 3,681,469.
- Armen, Ardy; Hammer, Gary G.; and Hennes, John H., 3,651,033.
- Asadorian, Arthur A.; and Broadworth, Max R., 3,682,805.
- Atkins, Bobby Leroy, 3,651,035.
- Avery, Lowell R.; and Conklin, Wayne A., 3,640,873.
- Baggett, Joseph M., 3,655,506.
- Baldwin, Walton Leon, 3,683,045.
- Barnhart, James W., 3,639,636.
- Barron, Benny G., 3,652,671.
- Barron, Benny G., 3,661,868.

- Barron, Benny G., 3,691,124.
- Barstow, Ormand E., 3,664,194.
- Bauman, William C., 3,668,873.
- Baumann, Richard F., 3,634,369.
- Bennett, Harold L., 3,636,772.
- Bergeron, Grafton; and Leddy, James J., 3,705,090.
- Bergman, Sylvester; and Dawson, Ross R., 3,667,898.
- Bernas, Richard J.; and Kaczynski, Clarence J., 3,679,170.
- Bertram, James L., 3,686,358.
- Bertram, James L.; and Bowen, David O., 3,705,115.
- Birrell, George B., 3,678,025.
- Blanchard, Robert R.; and Young, Warren L., 3,682,924.
- Blanchard, Robert R.; Kennedy, James S.; and Roberts, Reginald F., 3,706,724.
- Booth, Llewellyn Delphin, 3,650,994.
- Booth, Llewellyn Delphin, 3,697,488.
- Booth, Llewellyn Delphin, 3,706,680.
- Brown, Frederick L., 3,704,200.
- Brown, John H., Jr.; and Atkins, Bobby L., 3,638,709.
- Brown, William E.; Heitz, Robert G.; and Levine, Charles A., 3,672,995.
- Brown, William E.; Heitz, Robert G.; and Levine, Charles A., 3,679,480.
- Brubaker, Burton D.; and Waldman, Nathan, 3,673,290.
- Bubblitz, Donald E., 3,674,789.
- Bubblitz, Donald E., 3,637,691.
- Bubblitz, Donald E., 3,641,037.
- Budde, Paul B.; and Tolkmith, Henry, 3,637,732.
- Burk, George A., 3,649,673.
- Burk, George A., 3,673,235.
- Burk, George A.; and Exner, Jurgen H., 3,689,660.
- Burnett, Edward L.; and Stack, Eugene V., 3,687,333.
- Caiola, Robert J.; and Leatherman, Cleown A., 3,681,166.
- Caiola, Robert Joseph; Mick, William F.; and Amley, Oliver Bernard, 3,658,980.
- Cairns, James N., 3,661,669.
- Carmody, William D.; Thompson, Charles J.; and Butzler, George J., 3,673,126.
- Cerra, Peter A., 3,640,913.
- Chang, Kuo Yuan, 3,686,337.
- Chase, Raymond Burt, 3,651,558.
- Cheng, Chin Huan; and Leonard, Donald E., 3,648,018.
- Chisholm, Douglas S.; and Schrenk, Walter J., 3,645,837.
- Chisholm, Douglas S., 3,652,061.
- Chisholm, Douglas S., 3,684,474.
- Chisholm, Douglas S., 3,697,211.
- Chiu, Thomas T.; Hock, Kenneth R.; and Nagle, Floyd B., 3,669,718.
- Clark, Michael W., 3,705,193.
- Clark, Willard F., 3,695,948.
- Clark, Willard F., 3,695,950.
- Clarke, James A., 3,676,397.
- Clarke, James A., 3,687,897.
- Cleereman, Kenneth J., 3,647,614.
- Clock, Gerald E.; Mildner, Raymond C.; and Walters, Harold A., 3,687,748.
- Cochran, Rex W.; Helfrich, George F.; Hoblit, Louis D.; and Liu, Gordon Y. T., 3,632,799.
- Cohrs, William E.; and Stroiwas, Edward, 3,679,382.
- Colburn, Lyle W., 3,648,428.
- Cornay, Clement J.; Guy, Allen R.; and Young, Warren L., 3,652,728.
- Corson, Frederick P., 3,679,630.
- Crabb, Clarence R.; and McDonald, Leighton S., 3,641,169.
- Crenshaw, Paul L.; Flippen, Floyd F.; and Glasgow, James P., 3,634,237.
- Crist, Michael C., 3,681,996.
- Dalman, Gary W.; and Neumann, Fred W., 3,692,846.
- Davis, Billy D.; and Jones, Elvis E., 3,686,101.
- Davis, Chester P., 3,670,876.
- Davis, Lem, Jr., 3,651,169.
- Davis, Ralph A.; and Tigner, Ronald G., 3,705,010.
- Dick, Clarence R., 3,639,402.
- Dolinski, Richard J.; De Vrieze, Jerry D.; and Nowak, Robert M., 3,649,668.
- Dolinski, Richard J.; Nowak, Robert M.; and Burk, George A., 3,666,727.
- Domenico, Penelope B., 3,634,436.
- Domenico, Penelope B., 3,635,994.
- Domenico, Penelope B., 3,639,413.
- Domenico, Penelope B., 3,651,066.
- Domenico, Penelope B., 3,692,792.
- Domenico, Penelope B., 3,706,751.
- Domerico, Penelope B., 3,699,108.
- Doorenbos, Harold E., 3,671,469.
- Dorrenbos, Harold E., 3,683,029.
- Drasner, Joseph, 3,674,597.
- Dulmage, Fred C., 3,664,498.
- Dunbar, Joseph E.; and Zemba, John W., 3,674,795.
- Dunn, James L., Jr.; and Liddel, Harold G., 3,685,959.
- Egleson, Granville C., 3,653,837.
- Eichhorn, Jacob; and Roth, Stanley F., 3,698,934.
- Elliott, Herbert E.; and Simons, Frank A., 3,653,425.
- Engle, James P.; Oakes, Billy D.; and Reich, Cecil F., 3,634,270.
- Erickson, Robert E., 3,650,995.
- Exner, Jurgen H.; Larsen, Eric R.; and Gunsher, Jeffrey A., 3,688,001.
- Faith, Herman Eldridge, 3,637,726.
- Faith, Herman Eldridge; and Trepanier, Donald L., 3,642,789.
- Faith, Herman Eldridge, 3,651,078.
- Fernandez, Jaime B.; and Ayers, James E., 3,671,652.
- Filter, Harold E.; and Stevens, Don L., 3,632,458.
- Finch, Charles R.; and Kuntzsch, Jerold E., 3,660,535.
- Foerster, George S., 3,634,076.
- Foerster, George S.; and Lawrence, Garth D., 3,637,440.
- Foerster, George S., 3,694,536.
- Foerster, George S., 3,705,029.
- Fraini, Edward A.; and Minter, David E., 3,663,433.
- Fraini, Edward A.; and Wing, Milton S., 3,681,234.
- Frevel, Ludo K.; and Gransden, David F., 3,632,828.
- Frevel, Ludo K.; and Kressley, Leonard J., 3,634,536.
- Frevel, Ludo K.; and Gilpin, Jo Ann, 3,642,858.
- Frevel, Ludo K., 3,657,310.
- Frevel, Ludo K.; and Kressley, Leonard J., 3,660,023.
- Frevel, Ludo K.; and Kressley, Leonard J., 3,682,585.
- Frick, Hughie R.; and Anderson, Richard W., 3,679,709.
- Fujioka, George S., 3,635,666.
- Gammill, Benny B.; Ladewig, Glen R.; and Ham, George E., 3,634,341.
- Giampalmi, John J., Jr.; Telegdy, Istvan K.; and Wirth, Manfred, 3,689,211.
- Gibbons, Carl L., 3,674,812.
- Gibbs, Dale S.; Wessling, Ritchie A.; and Wagener, Earl H., 3,637,432.
- Glaesmann, Orville L., 3,689,440.
- Glew, David N.; and Clarke, Ewart C., 3,690,829.
- Gliniecki, Vern L.; and Flammang, Kenneth E., 3,634,165.
- Goring, Cleve A.; and Noveroske, Robert L., 3,632,755.
- Grant, Charles H., 3,639,184.
- Grant, Charles H., 3,690,213.
- Griffith, Jeffrey D., 3,635,690.
- Gritzner, Gerhard; and Leddy, James J., 3,635,804.
- Guilmette, F. Peter; and Madison, Norman L., 3,655,733.
- Gulbenk, Aylin H.; Horne, Dorothy J.; and Johnston, Howard, 3,663,543.
- Gum, Wilson F., Jr.; and Goralski, Christian T., 3,703,515.
- Habermann, Clarence E., 3,642,643.
- Habermann, Clarence E.; Friedrich, Ralph E.; and Tefertiller, Ben A., 3,642,894.
- Habermann, Clarence E., 3,645,913.
- Habermann, Clarence E.; and Thomas, Mary R., 3,696,152.
- Hairston, Thomas J.; Presley, Wayne E.; and Edwards, Stephen P., 3,649,572.
- Hall, Richard H.; Roberts, Carleton W.; Sikkema, Andrew J.; and Lawson, Junior J., 3,641,208.
- Hammer, Gary G.; and Hennes, John H., 3,645,988.
- Hanson, Alden W.; Moore, Eugene R.; Schanhals, Louis Robert; and Parish, Hal G., 3,633,630.
- Hanson, Alden W.; Evani, Syamalarao; and Drake, Lewis R., 3,687,906.
- Hargash, Paul, 3,669,248.
- Hargash, Paul, 3,677,522.
- Hargis, Sampse R., Jr., 3,632,861.
- Harmer, David E.; Jarema, John R.; and Leng, Douglas E., 3,697,351.
- Harper, Billy Gene; Bashaw, Robert Niles; and Atkins, Bobby Leroy, 3,669,103.
- Harris, Guy H.; Olson, Robert S.; and Wilcox, Robert D., 3,652,743.
- Harrison, Hugh T.; and Goodwin, Korwin J., 3,686,008.
- Harrod, John F.; Knight, Allan R.; and McIntyre, John S., 3,654,317.
- Harrod, John F.; Knight, Allan R.; and McIntyre, John S., 3,696,052.
- Hatch, Melvin J., 3,635,893.
- Hatch, Melvin J.; Yoshimine, Masao; Smith, Hugh B.; and Schmidt, Donald L., 3,636,052.
- Hatch, Melvin J.; Schmidt, Donald L.; and Smith, Hugh B., 3,660,431.
- Hawkins, Jerry Marvin, 3,634,327.
- Hawkins, Jerry Marvin, 3,636,133.
- Haynes, Winfield Scott, Jr.; and Miller, Carroll T., 3,639,372.
- Head, Billy D.; Fraini, Edward A.; and Martin, George R., 3,705,097.
- Hearn, Harold L.; and Behr, Raymond D., 3,649,145.
- Hearn, Harold L., 3,657,823.
- Hearn, Harold L.; and Donald, Harold J., 3,700,370.
- Heiman, John C., 3,676,509.
- Hennis, Henry E.; and Priddy, Duane B., 3,636,109.
- Herrell, Arthur D., 3,667,594.
- Hoblit, Louis D.; and Strange, Carl P., 3,660,530.

Hoblitz, Louis D.; and Strange, Carl P., 3,703,565.
 Holleman, Robert A.; Huston, Robert F.; and Barrios, Cyril A., 3,660,059.
 Howard, William L., 3,632,657.
 Howe, Joseph H.; and Morris, Leo R., 3,634,485.
 Huml, James O.; and Layne, Gilbert S., 3,672,832.
 Huml, James O.; Bangs, Leigh B.; and Layne, Gilbert S., 3,694,156.
 Jablonski, Werner L., 3,663,466.
 Jackson, Larry L., 3,647,894.
 Jeffrey, Gaines C., 3,654,358.
 Jennings, Robert R., 3,687,199.
 Johnson, Francis; and Gulbenk, Alin H., 3,657,340.
 Johnston, Charles; and Campbell, Michael D., 3,681,504.
 Jones, Giffin D.; and Thomas, Mary R., 3,636,181.
 Jones, Giffin D.; and Roth, Harold H., 3,640,909.
 Jones, Giffin D.; Geyer, Gerald R.; and Hatch, Melvin J., 3,673,164.
 Jones, Giffin D.; Geyer, Gerald R.; and Hatch, Melvin J., 3,686,279.
 Jones, Giffin D.; and Tefertiller, Nancy B., 3,703,553.
 Jones, Giffin D.; Geyer, Gerald R.; and Hatch, Melvin J., 3,679,748.
 Juckniess, Paul R., 3,673,076.
 Kallos, George J.; and Kao, Che-I., 3,636,182.
 Karle, Franklin J.; and Langer, Horst G., 3,685,344.
 Kawahara, Yoshio, 3,663,394.
 Keading, Warren W.; and Ligi, Joseph J., 3,637,807.
 Keilbach, Joseph R.; and Sarli, Vito J., 3,691,769.
 Kelyman, Jacqueline S., 3,649,671.
 Kenaga, Duane L., 3,649,442.
 Kneriem, Herman, Jr., 3,667,655.
 Kochanny, Gerald L., Jr., 3,682,804.
 Kott, Alan C.; Jankowiak, Erwin M.; and Lane, George A., 3,704,187.
 Kottle, Sherman; Carl, William P.; and Vaughn, Walter L., 3,690,774.
 Kressley, Leonard J., 3,685,262.
 Kroening, Roger D.; and Kirby, David B., 3,690,907.
 Kropscott, Earle L.; Blanchard, Robert R.; and Schramm, James N., 3,687,873.
 Krumel, Karl L.; and Dewald, James R., 3,636,171.
 Kuhn, Stephen Joseph, 3,639,488.
 Kuhn, Stephen Joseph, 3,673,264.
 Kurihara, Norman H., 3,657,241.
 Kyriacou, Demetrios, 3,668,209.
 La Barge, Robert G.; and Johnson, Gary L., 3,674,858.
 Labarge, Robert G.; and Bradley, Donald K., 3,660,295.
 Labarge, Robert G.; Evans, Syamalalao; and Hanson, Alden W., 3,696,043.
 Lane, George A., 3,665,862.
 Lane, George A.; Smith, William Arthur; Dollman, Stephen C.; Kaye, Seymour M.; and Taylor, Francis R. (said Lane and said Smith assors. to), 3,673,013.
 Lane, George A.; and Smith, William Arthur, 3,673,014.
 Lane, Robert E., 3,649,562.
 Langer, Horst G., 3,634,591.
 Langer, Horst G.; Karle, Franklin J.; and Ayers, Earl D., 3,667,278.
 Langer, Horst G., 3,667,279.
 Larsen, Eric R.; Keller, Albert Kent; and Plepys, Raymond A., 3,674,664.
 Layne, Gilbert S.; and Huml, James O., 3,666,442.
 Layne, Gilbert S.; and Huml, James O., 3,685,984.
 Lesinski, Chester A., 3,642,671.
 Levine, Charles A.; and Fujioka, George S., 3,663,294.
 Levine, Charles A., 3,703,412.
 Levine, Leonard, 3,641,033.
 Levine, Leonard, 3,652,669.
 Liddell, Harold G., 3,634,289.
 Liddell, Harold G., 3,687,611.
 Lindblom, Robert O., 3,647,524.
 Lindblom, Robert O.; and Ledbetter, Harvey D., 3,686,018.
 Lindy, Lowell B., 3,677,952.
 Liu, Gordon Y. T.; and Strange, Carl P., 3,678,024.
 Livak, John E., 3,652,560.
 Longoria, Juan, 3,692,092.
 Longoria, Juan, III; and Coker, William P., 3,635,842.
 Lynn, Scott; and Charlesworth, Robert K., 3,649,219.
 Marshall, Franklin N., 3,632,779.
 Marshall, Franklin N., 3,639,603.
 Marshall, Franklin N., 3,639,634.
 Martin, Brian, 3,637,841.
 Martin, Robert C., 3,662,830.
 Maskal, John; Thompson, Ivan M.; and Heikel, Henrik R., 3,639,158.
 Matthews, Russell E.; and Ott, Jack J., 3,634,066.
 Matthews, Russell E.; and Foerster, George S., 3,691,813.
 Mayer, Raymond P.; Thompson, Ivan M.; and Zbojnicz, Walter P., 3,642,264.
 Mayfield, John C., 3,632,640.

McAda, Richard Bernie, 3,663,663.
 McCrary, Avis L., 3,703,545.
 McFadden, Russell T., 3,634,372.
 McIntyre, John S., 3,634,458.
 McLain, Earl A.; and Mahon, Henry I., 3,659,983.
 Meeks, Merritt R.; and Garner, Joseph L., 3,642,756.
 Merlino, Thomas R.; Flickinger, John H.; and McFadden, Russell T., 3,702,349.
 Merrill, Claude I., 3,658,872.
 Mildner, Raymond C., 3,632,720.
 Mildner, Raymond C., 3,681,515.
 Miller, Gordon R., 3,686,047.
 Modeen, James H.; and Newton, Gary E., 3,689,558.
 Mogelnicki, Stanley; and Gatz, Eugene M., 3,652,479.
 Moolenaar, Robert J., 3,637,349.
 Moore, Carl; Gibbs, Dale S.; and Vanderhoff, John W., 3,639,148.
 Moore, Carl; Louch, James B.; and Stainfield, Russell L., 3,644,258.
 Moore, Carl, 3,677,991.
 Moore, Carl, 3,679,469.
 Moore, Donald E., 3,661,881.
 Moore, Edgar E.; and Foster, William A., 3,706,629.
 Moore, Eugene R.; Bussey, Marlin G.; and Parish, Hal G., 3,672,951.
 Moore, Eugene R.; and Park, William R. R., 3,679,640.
 Moore, John C., 3,649,200.
 Moore, William Ross; and Langner, Ralph Rolland, 3,657,200.
 Morrison, Jack A., 3,646,225.
 Moyer, John R.; and Moore, William G., 3,639,248.
 Moyle, Clarence L.; and Chern, Diomed M., 3,651,123.
 Najvar, Daniel J.; Parks, Christ F.; Bennett, Garry A.; and Nimerick, Kenneth H., 3,651,649.
 Najvar, Daniel J., 3,669,911.
 Nankee, Robert J.; Lamphere, Jack C.; and Nelson, Rodney A., 3,686,024.
 Narayana, Munisamappa; Keskkula, Henno; and Mason, Jerry E., 3,639,522.
 Narayana, Munisamappa; Keskkula, Henno; and Mason, Jerry E., 3,641,212.
 Nelson, Alfred R.; and Floria, Vernon D., 3,706,722.
 Newman, Ritchey O., Jr.; and Schrenk, Walter J., 3,645,838.
 Newman, Ritchey O., Jr.; and Schrenk, Walter J., 3,673,050.
 Newton, Robert A.; and Ballard, Donnell A., 3,639,543.
 Nimerick, Kenneth H., 3,692,675.
 Nimerick, Kenneth H., 3,696,035.
 Nixon, Thomas E.; Barber, John A.; and Nagle, Floyd B., 3,666,699.
 Nowak, Robert M.; and Ginter, Thomas O., 3,674,893.
 O'Grady, Austin, 3,639,118.
 Olson, Robert S.; and Surls, Joseph P., Jr., 3,669,649.
 Olstowski, Franciszek, 3,666,455.
 Osborn, Oliver; and Prows, Bernard L., 3,661,742.
 Paige, William P.; and Nagle, Floyd B., 3,666,692.
 Palfey, Albert J., 3,707,127.
 Pannell, Calvin E., 3,657,028.
 Parish, Hal G.; Palfey, Albert J.; and Moore, Eugene R., 3,637,459.
 Parker, Vernon D., 3,694,332.
 Parker, William L.; Johnson, Francis; and Martin, John, 3,697,542.
 Parrish, Donald Bob; and Pruitt, Ronnie Mac, 3,676,379.
 Patterson, Gerald D., 3,643,212.
 Patterson, Gerald D., 3,648,513.
 Pauloski, Chester E., 3,639,445.
 Pauloski, Chester E., 3,635,958.
 Pauloski, Chester E., 3,635,996.
 Pauloski, Chester E., 3,636,078.
 Pauloski, Chester E., 3,652,594.
 Pauloski, Chester E.; and Stewart, Russell L., 3,663,633.
 Pauloski, Chester E.; and Stewart, Russell L., 3,700,735.
 Pence, Samuel A., Jr., 3,677,987.
 Peterson, Laurence I.; and Sauro, Louisa J., 3,642,717.
 Peterson, Laurence I.; and Sauro, Louisa J., 3,642,860.
 Peterson, Laurence I., 3,657,342.
 Peterson, Laurence I., 3,657,343.
 Peterson, Laurence I., 3,679,671.
 Pews, R. Garth; and Nyquist, E. B., 3,634,440.
 Pews, R. Garth; and Corson, Fred P., 3,641,004.
 Pews, Richard Garth; Hand, Clare R.; and Roberts, Carleton W., 3,641,160.
 Pews, Richard Garth, 3,642,903.
 Pews, Richard Garth; and Davis, Ralph A., 3,651,155.
 Pews, Richard Garth; Corson, Fred P.; and Nyquist, Edwin B., 3,654,334.
 Phillips, Prella M., 3,704,270.
 Pitts, Charles A., 3,705,624.
 Pruitt, Ronnie M.; and Jones, Howard D., 3,692,707.
 Raley, Charles F., Jr., 3,639,304.
 Raley, Charles F., Jr., 3,668,155.
 Raley, Charles F., Jr., 3,669,918.

Ramirez, Enrique G.; and Miller, Gordon R., 3,634,396.
 Ramsey, Ronald L., 3,689,001.
 Reifschneider, Walter, 3,655,773.
 Reifschneider, Walter, 3,674,857.
 Reifschneider, Walter, 3,679,735.
 Reifschneider, Walter, 3,682,879.
 Ridenour, Richard E.; and Flagg, Edward E., 3,634,479.
 Rieke, James K.; Behr, Douglas Raymond; and McIntire, Otis R., 3,647,617.
 Robbins, Lanny A., 3,657,176.
 Roberts, Carleton W.; and Haigh, Daniel H., 3,634,365.
 Roberts, Reginald F., Jr., 3,644,325.
 Roberts, Reginald F., Jr., 3,658,723.
 Rogers, William A., Jr., 3,642,567.
 Rosene, Robert B., 3,667,236.
 Routson, Willis G.; and Caldwell, Albert L., 3,701,384.
 Rubens, Louis C., 3,662,043.
 Rubens, Louis C., 3,673,131.
 Rubens, Louis C.; and Woo, James T. K., 3,694,416.
 Rupprecht, Walter E. F.; and Guilette, Kenneth J., 3,632,791.
 Sauer, Charles A., 3,653,501.
 Saunders, Frank L.; and Pelletier, Ronald R., 3,642,676.
 Saunders, Frank L.; and Sheetz, David P., 3,673,142.
 Scheidt, Francis M., 3,637,715.
 Schenbelen, David F.; and Cramer, Robert B., 3,641,216.
 Schneggenburger, Roger G.; and Hellmann, Reinhold, 3,639,139.
 Schneider, John A.; and Moran, John B., 3,640,857.
 Schrader, Paul G., 3,703,962.
 Schrenk, Walter J.; Chisholm, Douglas S.; Cleereman, Kenneth J.; and Alfrey, Turner, Jr., 3,647,612.
 Schrenk, Walter J., 3,682,749.
 Schrenk, Walter J., 3,687,589.
 Schuetz, James E.; and Shelburg, William D., 3,642,743.
 Schuller, Karl Wilhelm, 3,660,264.
 Scott, Henry H., 3,697,244.
 Seeburger, Harold O.; and Horsley, Lee H., 3,655,522.
 Seeburger, Harold O.; and Horsley, Lee H., 3,655,523.
 Segel, Edward; and Scheffel, Kenneth G., 3,669,000.
 Seiber, James N.; and Parker, Vernon D., 3,673,190.
 Seiber, James N.; and Stringham, Robert R., 3,677,916.
 Seiber, James N., 3,687,826.
 Seiber, James N., 3,687,827.
 Setser, Donald D., 3,678,494.
 Settineri, William J.; and Wessling, Ritchie A., 3,649,483.
 Settineri, William J.; and Wessling, Ritchie A., 3,660,257.
 Settineri, William J.; and Wessling, Ritchie A., 3,681,419.
 Sheetz, David P., 3,637,565.
 Sheetz, David P., 3,640,922.
 Sheetz, David P.; and Steiner, Edwin C., 3,642,879.
 Smith, Charles F.; and Nolan, Thomas J., III, 3,633,672.
 Smith, Harry A.; and Kobel, Erwin H., 3,661,814.
 Smith, Harry A.; and Rooker, Bobbie E., 3,668,191.
 Smith, Harry A., 3,705,146.
 Smith, Vernon J., 3,657,114.
 Smith, William E., 3,705,203.
 Smith, William F.; Mitchell, John H.; Edwards, William M.; and Cox, Phillip W., 3,680,975.
 Soderquist, Frederick J.; Kehde, Howard; and Martz, Lyle E., 3,652,699.
 Sonnabend, Lawrence F., 3,700,493.
 Spillers, Frank W., 3,657,533.
 Stack, Eugene V.; and Burnett, Edward L., 3,691,619.
 Stafford, Owen L.; and Adams, Jack J., 3,642,949.
 Stafford, Owen L.; and Tarzwell, Robert K., 3,669,914.
 Staudacher, Gerald R.; Lane, George A.; and Kott, Alan C., 3,680,483.
 Staudacher, Gerald R.; and Ames, Sidney W., 3,703,192.
 Stefancin, James M., 3,679,127.
 Stehl, Rudolph H., 3,664,967.
 Stenger, Vernon A.; and Kramer, Walter R., 3,647,261.
 Stenger, Vernon A.; and Kramer, Walter R., 3,655,333.
 Stenger, Vernon A., 3,679,396.
 Stevenson, Graham T., 3,703,581.
 Stout, Caleb M.; Nimerick, Kenneth H.; and Parks, Christ F., 3,677,014.
 Stowe, Robert A.; and Martin, Irvin J., 3,641,180.
 Strange, Carl P.; and Liu, Gordon Y. T., 3,641,211.
 Strange, Carl P.; and Liu, Gordon Y. T., 3,649,441.
 Strojny, Edwin J.; and Gurowitz, William D., 3,639,452.
 Strojny, Edwin J.; and Frevel, Ludo K., 3,668,244.
 Strycker, Stanley J., 3,657,222.
 Sun, Yun-Chung, 3,677,023.
 Surls, Joseph P.; Bauer, David L.; and West, Ben F., 3,703,357.
 Surprenant, Kenneth S.; and Gerard, Raymond T., 3,632,480.
 Surprenant, Kenneth S.; and Gerard, Raymond T., 3,663,293.
 Sutherland, Samuel S., Jr.; and Dailey, George W., 3,654,181.
 Symm, Richard H., 3,676,054.
 Tabor, Theodore E.; Farber, Hugh A.; and Vivian, Thomas A., 3,658,575.
 Taylor, Otis C., 3,655,342.

Teal, James L.; Hamilton, Charles Eugene; and Clifford, Dennis A., 3,679,364.
 Teumac, Fred Norman; and Harriman, Lester W., 3,668,009.
 Thomas, Edward J.; and Friedrich, Ralph E., 3,664,938.
 Thomka, Laddie M., 3,690,903.
 Tigner, Ruben A., 3,650,386.
 Tigner, Ruben A., 3,683,584.
 Titchenal, Oliver R.; Widiger, Aimar T.; and Yurcisin, Robert A., 3,681,092.
 Titchenal, Oliver R., 3,688,463.
 Tobey, Stephen W., 3,657,348.
 Tomalia, Donald A., 3,639,395.
 Tomalia, Donald A.; and Thomas, Robert J., 3,640,957.
 Tomalia, Donald A.; and Thill, Bruce P., 3,670,046.
 Tomalia, Donald A.; and Glesner, William K., 3,673,274.
 Tomalia, Donald A.; and Dickert, Yancey J., 3,682,948.
 Tomalia, Donald A.; and Ooha, Narayanlal D., 3,697,524.
 Tomalia, Donald A., 3,697,537.
 Torba, Florence E., 3,682,936.
 Torba, Florence E., 3,705,170.
 Tregembo, Rhoderic; Dolezal, Wayne R.; Boughton, Lowell D.; and Stewart, John D., 3,690,106.
 Trepanier, Donald L., 3,636,116.
 Trepanier, Donald L.; and Krieger, Paul E., 3,641,019.
 Troxel, Lillian H.; and Johnston, Howard, 3,682,938.
 Tsai, James H.; and Anderson, Glenn H., 3,676,474.
 Tsai, James H.; and Anderson, Glenn H., 3,679,722.
 Turley, Robert R.; Castor, William M.; and Nunnally, Kenneth R., 3,703,593.
 Turner, Robert B., 3,639,312.
 Tveter, Elmer C.; and Surls, Joseph P., 3,635,671.
 Valenta, Joseph C.; and Steinhauer, Alfred F., 3,634,272.
 Valenta, Joseph C.; and Steinhauer, Alfred F., 3,645,906.
 Vaughn, Walter L., 3,687,909.
 Vivian, Thomas A., 3,663,255.
 Vivian, Thomas A., 3,670,036.
 Vivian, Thomas A., 3,682,834.
 Volk, Henry; and Hamlin, Percy Jay, 3,657,378.
 Volk, Henry; and Hamlin, Percy Jay, 3,658,771.
 Volk, Henry; and Hamlin, Percy J., 3,658,772.
 Walker, Eddie Bob, 3,632,836.
 Walles, Wilhelm E.; and Davies, James J., 3,634,385.
 Walles, Wilhelm E., 3,642,704.
 Walles, Wilhelm E.; Caiola, Robert J.; and Donald, Harold J., 3,685,446.
 Walles, Wilhelm E., 3,689,810.
 Walles, Wilhelm E.; McIntire, Otis R.; Rieke, James K.; and Griggs, Max V., 3,705,041.
 Wang, Chun-Shan; and McGee, Thomas W., 3,636,024.
 Wang, Chun-Shan; and McGee, Thomas W., 3,637,722.
 Wang, Chun-Shan; and Easterly, James P., 3,655,678.
 Wang, Chun-Shan; and Sheetz, David P., 3,660,353.
 Wessling, Ritchie A., 3,635,872.
 Wessling, Ritchie A.; and Settineri, William J., 3,697,398.
 Wessling, Ritchie A.; and Zimmermann, Ray G., 3,706,677.
 West, Walter H., 3,650,550.
 Widiger, Almar T.; and Moore, Drew H., 3,645,822.
 Wiggins, Glenn C., 3,672,915.
 Wiggins, Glenn C.; Kreh, Marvin J.; Davis, Robert S.; and Stevenson, Fred, 3,707,590.
 Wilcox, Robert D., 3,639,545.
 Windecker, Leo J., 3,666,850.
 Wineland, William H.; Goff, Frank V.; and Stevenson, Fred, 3,662,028.
 Wolf, Paul A., 3,647,610.
 Wolf, Paul A.; and Bobalek, Francis J., 3,649,166.
 Woo, James T.; and Brown, Thayer A., Jr., 3,692,746.
 Woodland, Paul C.; and Moldovan, Daniel, 3,683,104.
 Wright, Edward R.; and Messick, Bobby G., 3,660,261.
 Wright, Larry F., 3,639,491.
 Wysong, Don V.; and White, Halbert C., 3,660,423.
 Young, Arnold E., 3,634,504.
 Young, Warren L.; Kennedy, James S.; Carnahan, Norman F.; and Blanchard, Robert R., 3,632,848.
 Ziegler, Earl E., 3,696,452.
 Zimmermann, Robert L.; Dennis, Kent S.; and Moore, Eugene R., 3,678,016.
 Dow Corning Corporation: See—
 Antonen, Robert C., 3,632,793.
 Antonen, Robert C., 3,636,134.
 Antonen, Robert C.; and Kookootsedes, Gust J., 3,655,598.
 Antonen, Robert C., 3,661,845.
 Antonen, Robert C., 3,677,872.
 Antonen, Robert C., 3,691,256.
 Antonen, Robert C.; Kookootsedes, Gust J.; and Field, Arthur J., 3,703,562.
 Antonen, Robert C., 3,705,205.
 Atwell, William H.; Salinger, Rudolf M.; and Seibert, Richard P., 3,639,105.
 Bachura, Richard A., 3,655,581.
 Bachura, Richard A., 3,706,681.

- Brenner, Bruce C., 3,671,433.
 Campbell, James K., 3,634,297.
 Campbell, James K.; and Lee, Kenneth M., 3,677,810.
 Cekada, Joseph, Jr., 3,637,560.
 Chapman, Dwain R., 3,661,847.
 Chapman, Dwain R., 3,689,455.
 Clark, William H.; and Hays, William R., 3,699,072.
 Gansheimer, Josef; and Schanzer, Oswald, 3,677,946.
 Gordy, William G.; and Keil, Joseph W., 3,632,715.
 Gornowicz, Gerald A.; and Wendel, Samuel R., 3,660,454.
 Greenlee, Thomas W., 3,702,835.
 Grindahl, George A.; Pierce, Ogden R.; and Greenwald, John R., 3,652,464.
 Groenhof, E. D., 3,694,479.
 Groenhof, Eugene D., 3,632,619.
 Groenhof, Eugene D., 3,639,239.
 Groenhof, Eugene D.; and Schiefer, Harry M., 3,660,453.
 Haluska, Loren A., 3,663,468.
 Harder, James W., 3,652,488.
 Hartlage, James V., 3,642,692.
 Hartlein, Robert C.; and Olson, Carl R., 3,647,846.
 Hartlein, Robert C.; Kiles, James D.; Larson, Willard D.; and Olson, Carl R., 3,670,649.
 Hartlein, Robert C., 3,702,794.
 Huebner, David J.; and Meddaugh, Michael D., 3,706,695.
 Hyde, James Franklin; and Spielvogel, David E., 3,652,628.
 Keil, Joseph W., 3,666,681.
 Keil, Joseph W., 3,703,486.
 Larson, Willard D., 3,658,008.
 Larson, Willard D., 3,661,833.
 Laur, Thomas L.; and Lamont, Peter, 3,635,874.
 Laur, Thomas L., 3,692,737.
 Le Grow, Gary E., 3,637,779.
 Le Grow, Gary E., 3,655,713.
 Le Grow, Gary E., 3,661,954.
 Loree, Lorne A.; Pierce, Ogden R.; and Kim, Yung Ki, 3,647,740.
 Matherly, James E., 3,642,685.
 Matherly, James E., 3,696,127.
 Metevia, Virgil L.; Narlock, Raymond M.; and Mast, Milfred E., 3,677,877.
 Michael, Keith W.; and Dennis, William E., 3,696,138.
 Miller, Don R., 3,659,611.
 Mohrlok, Sharon R., 3,641,239.
 Pierce, Ogden R.; and Kim, Yung Ki, 3,681,418.
 Polmanteer, Keith E., 3,635,887.
 Polmanteer, Keith E.; Willing, David N.; and Talcott, Thomas D., 3,697,473.
 Quaal, George J., 3,634,246.
 Quaal, George J.; and Lewis, Alfred, 3,689,412.
 Saam, John C., 3,655,633.
 Saam, John C.; and Fearon, Frederick W. G., 3,665,052.
 Saam, John C.; and Fearon, Frederick W. G., 3,678,125.
 Saam, John C.; and Fearon, Frederick W. G., 3,678,126.
 Saam, John C., 3,686,356.
 Schulz, Jay R.; and Clark, William H., 3,647,917.
 Skobel, Max, 3,698,988.
 Tucker, Thomas N., 3,645,686.
 Vaughn, James R., 3,702,769.
 Wendel, Samuel R., 3,691,222.
 Woerner, Lloyd M.; Kivela, William C.; and Quaal, George J., 3,634,116.
 Young, Donald G., 3,671,483.
 Young, Donald G., 3,677,998.
 Dow Corning Limited: See—
 Bush, Richard Paul; and Thomas, Bryan, 3,677,977.
 Fulton, Michael; Jones, John Darrell; and Pearce, Christopher A., 3,676,420.
 Griffin, Philip Alfred, 3,698,982.
 Jonas, David Andrew; and Owen, William John, 3,694,427.
 Dow, Harrison E.: See—
 Hess, James L., Jr.; and Dow, Harrison E., 3,638,951.
 Dow Jones & Company, Inc.: See—
 Woolfolk, Robert L., 3,659,366.
 Dow, Norris F., to United States of America, Air Force. Flexible nose cone antenna. 3,634,863, 1-11-72, Cl. 343-707.
 Dow, Phillip L.: See—
 St. Lorient, Steven J.; and Dow, Phillip L., 3,667,246.
 Dow, Robert L.: See—
 Crescenzo, Frank G.; and Dow, Robert L., 3,639,183.
 Dow, Robert W.; and Moore, Arthur L., to SSP Industries. Slip joint. 3,656,784, 4-18-72, Cl. 285-187.
 Dow, Ronald: See—
 Dev Bedi, Ram; and Dow, Ronald, 3,682,796.
 Dow-Quinones S.A.: See—
 Solomka, Monroe M.; and Montoya, Jose M. Genua, 3,686,010.
 Solomka, Monroe M.; and Fernandez, Gabriel Puente, 3,695,907.
 Solomka, Monroe M.; and Aguirre, Enrique Renteria, 3,706,829.
 Dowalo, Frederick G.; and Loev, Bernard, to Smith Kline & French Laboratories. 4-(N-lower alkanoyl)hydroxylamino-4'-aminodiphenylsulfone compounds. 3,661,944, 5-9-72, Cl. 260-397.6.
 Dowbenko, Rostyslaw: See—
 Parker, Earl E.; Christenson, Roger M.; and Dowbenko, Rostyslaw, 3,655,823.
 Dowbenko, Rostyslaw; and Anderson, Carl C., to PPG Industries, Inc. Curable epoxy resin compositions containing organoimidazolium salt. 3,635,894, 1-18-72, Cl. 260-47.
 Dowbenko, Rostyslaw, to PPG Industries, Inc. Compounds of five and six-membered cyclic alpha, beta-unsaturated ethers. 3,637,760, 1-25-72, Cl. 260-345.8.
 Dowbenko, Rostyslaw; and Christenson, Roger M., to PPG Industries, Inc. Novel acrylic monomers, their preparation and treatment. 3,645,984, 2-29-72, Cl. 260-78.4.
 Dowbenko, Rostyslaw; and Christenson, Roger M., to PPG Industries, Inc. Novel mixture of acrylic monomers and the preparation thereof. 3,647,737, 3-7-72, Cl. 260-31.6.
 Dowbenko, Rostyslaw; Chang, Wen-Hsuan; and Anderson, Carl C., to PPG Industries, Inc. Metal salt complexes of imidazoles as curing agents for one-part epoxy resins. 3,677,978, 7-18-72, Cl. 260-2.0ep.
 Dowbenko, Rostyslaw; and Anderson, Carl C., to PPG Industries, Inc. Metal salt complexes of imidazolium salts as curing agents for one part epoxy resins. 3,678,007, 7-18-72, Cl. 260-47.0en.
 Dowbenko, Rostyslaw; and Chang, Wen-Hsuan, to PPG Industries, Inc. Process for electrodepositing acrylic compositions. 3,679,564, 7-25-72, Cl. 204-181.000.
 Dowbenko, Rostyslaw, to PPG Industries, Inc. Thermosetting acrylics containing oxazoline groups. 3,692,757, 9-19-72, Cl. 260-86.10n.
 Dowd, Albert A., to International Business Machines Corporation. Forms feeding tractor and jam detector therefor. 3,669,327, 6-13-72, Cl. 226-11.
 Dowd, Joseph F. Shower facility. 3,668,710, 6-13-72, Cl. 4-145.000.
 Dowd, Robert T.; and Clark, Thomas D., to Shell Oil Company. Unsaturated polyesters esterified with polycarboxylic acid anhydride and containing polyepoxide. 3,634,542, 1-11-72, Cl. 260-837.
 Dowdy, Thomas W. Pine cone gathering implement. 3,658,371, 4-25-72, Cl. 294-61.
 Dowdy, David A.: See—
 Abbott, Malcolm K.; and Dowdy, David A., 3,677,118.
 Dowell, Frederick S., to Dunlop Company Limited, The. Disc brakes. 3,653,472, 4-4-72, Cl. 188-217.
 Dowell, Winston C. Manual control for pressure-responsive switch of a submersible motor and pump. 3,637,326, 1-25-72, Cl. 417-44.
 Dower, Ethell J., to Warren Automatic Tool Company. Apparatus for controlling fluid flow through a conduit. 3,646,607, 2-29-72, Cl. 137-604.
 Dowler, Warren L.: See—
 Bailey, Richard L.; Dowler, Warren L.; and Shafer, John I., 3,648,461.
 Dowley Manufacturing, Inc.: See—
 Kelso, Robert E., 3,689,978.
 Kevso, Robert E., 3,686,984.
 Dowling, Donald J.; and Atwood, George R., to Texaco Inc. Mulling coil apparatus for magnetic susceptibility logging. 3,644,823, 2-22-72, Cl. 324-6.
 Dowling, Donald J.; and Atwood, George R., to Texaco Inc. Thermally stable coil assembly for magnetic susceptibility logging. 3,657,636, 4-18-72, Cl. 324-6.
 Dowling, Edward Camp; and Thomas, John Breniser, to AMP Incorporated. Double pulse switch control system and circuit. 3,668,433, 6-6-72, Cl. 307-247.00a.
 Dowling, Edward D.: See—
 Kovalcik, Edward J.; and Dowling, Edward D., 3,667,743.
 Dowling, John B.: See—
 Rawson, Edward B.; and Dowling, John B., 3,651,463.
 Rawson, Edward B.; and Dowling, John B., 3,679,875.
 Rawson, Edward B.; and Dowling, John B., 3,693,166.
 Dowling, Thomas P., to Commercial Solvents Corporation. Packaged explosive. 3,645,205, 2-29-72, Cl. 102-24.
 Dowling, Thomas P., to Commercial Solvents Corporation. Explosive booster. 3,685,449, 8-22-72, Cl. 102-24.000.
 Down, Russell J. Method for growing oysters. 3,675,626, 7-11-72, Cl. 119-4.000.
 Downer, John Colin: See—
 Cole, Robert Templeman; Whitbread, Frederick John; and Downer, John Colin, 3,690,086.
 Downer, John D.; and Swanson, Carl Loyal W., to Texaco Trinidad, Inc. Process for making micronutrient naphthenate compositions. 3,661,550, 5-9-72, Cl. 71-27.
 Downer, John Michael, to Imperial Chemical Industries Limited. Polymers of tetrafluoroethylene. 3,639,328, 2-1-72, Cl. 260-29.6.
 Downey, Mackenzie A., to Suitcase Shower Ltd. Portable shower unit. 3,657,746, 4-25-72, Cl. 4-155.
 Downey, Raymond E., to Goodyear Tire & Rubber Company, The. Polyester-vinyl chloride copolymer adhesive. 3,699,189, 10-17-72, Cl. 260-873.000.
 Downey, Rogers B.: See—

- Baker, Philip G.; Cook, Gerald H.; and Downey, Rogers B., 3,687,051.
 Downey, Rogers B.; and Thomas, Paul W., to Polaroid Corporation. Motion picture film cassette-processor system. 3,641,896, 2-15-72, Cl. 95-13.
 Downey, Rogers B.; and Cook, Gerald H., to Polaroid Corporation. Motion picture cassette with self-aligning film handling system. 3,642,229, 2-15-72, Cl. 242-199.
 Downey, Rogers B.; and Thomas, Paul W., to Polaroid Corporation. Motion picture processing system. 3,643,579, 2-22-72, Cl. 95-89.
 Downey, Rogers B., to Polaroid Corporation. Apparatus for processing a strip of photographic material. 3,644,024, 2-22-72, Cl. 352-130.
 Downey, Rogers B., to Polaroid Corporation. Photographic film unit. 3,694,206, 9-26-72, Cl. 96-29.00r.
 Downey, Thomas A., to Zurn Engineers. Vehicle mounted earth separating and conveying system. 3,701,422, 10-31-72, Cl. 209-241.000.
 Downey, William P., to Hyster Company. Fork frame for an industrial truck. 3,659,732, 5-2-72, Cl. 214-621.000.
 Downing, Arthur C., to General Electric Company. Steam iron and valve structure. 3,675,351, 7-11-72, Cl. 38-77.830.
 Downing, James H.: See—
 McClincy, Richard J.; Downing, James H.; and Wilson, Benjamin John, 3,660,298.
 Downing, James H., to Harris Company, Inc. Silo unloader. 3,670,907, 6-20-72, Cl. 214-17.0db.
 Downing, James Herbert: See—
 McClincy, Richard Joseph; Downing, James Herbert; and Wilson, Benjamin John, 3,704,094.
 Wilson, Benjamin John; McClincy, Richard J.; and Downing, James Herbert, 3,704,114.
 Downing, Lucien R., Jr.; and Micyal, David F., to Donn Products, Incorporated. Removable grid member. 3,693,303, 9-26-72, Cl. 52-476.000.
 Downing, Randall W.; Nowak, John S.; Taylor, Frank F.; and Ulrich, Werner, to Bell Telephone Laboratories, Incorporated. Program controlled data processing system. 3,651,480, 3-21-72, Cl. 340-172.5.
 Downingtown Division, Beloit Corporation: See—
 Becker, James F., 3,688,961.
 Wallis, Robert L., 3,655,143.
 Downs, Arley L., to Monsanto Company. Method for recovering vented monomers. 3,642,736, 2-15-72, Cl. 260-85.5.
 Downs, Arthur: See—
 Grime, Frank L.; and Downs, Arthur, 3,687,465.
 Downs, Bernard W.: See—
 Wenrich, Carl M.; and Downs, Bernard W., 3,696,227.
 Downs, Clifford L.: See—
 Kettler, Clarence J.; and Downs, Clifford L., 3,671,860.
 Downs, Dan Lloyd, to Minnesota Mining and Manufacturing Company. Ski with cut-resistant surface covering. 3,704,023, 11-28-72, Cl. 280-11.131.
 Downs, Elizabeth: See—
 Taylor, Robert Vincent; and Downs, Elizabeth, 3,662,852.
 Downs, Francis L.: See—
 Downs, Frank R., 3,671,999.
 Downs, Frank R., to Downs, Francis L. Apparatus for recovering meat from bones. 3,671,999, 6-27-72, Cl. 17-1.00g.
 Downs, Horace Dean; and Purcell, John E., to Perkin-Elmer Corporation, The. Sample injection arrangement for an analytical instrument. 3,635,093, 1-18-72, Cl. 73-422.
 Downs, Ned E., to Hercules Incorporated. Apparatus for removing oil from water. 3,669,275, 6-13-72, Cl. 210-242.000.
 Downs, Robert F., to Advanced Technology Center, Inc., mesne. Pulse discriminator. 3,638,128, 1-25-72, Cl. 329-126.
 Downs, Robert F., to Okonite Company, The. Adjustable frequency bipolar square wave generating circuit. 3,681,621, 8-1-72, Cl. 307-271.000.
 Downs, Ronald O.: See—
 Yates, William F.; Downs, Ronald O.; and Burleson, James C., 3,639,391.
 Dowsett, Reg H., to Forsyth, John, Co., Ltd. Shirt collar and method of making same. 3,693,191, 9-26-72, Cl. 2-131.000.
 Dowty Hydraulic Units Limited: See—
 Hyde, John Michael, 3,682,050.
 Worn, Claude Leslie Gordon, 3,633,359.
 Dowty Meco Limited: See—
 Dawson, Gordon Bertram, 3,685,367.
 Dawson, Gordon Bertram, 3,705,736.
 Matthews, Edmund William, 3,667,586.
 Paul, Thomas Campbell, 3,680,682.
 Dowty Mining Equipment Limited: See—
 Bick, David Ewart, 3,637,052.
 Dowty Rotol Limited: See—
 Bass, Robert Mehew; and Chilman, John Alfred, 3,633,411.
 Brooking, Ivor Harold; and Chilman, John Alfred, 3,663,119.
 Chilman, John Alfred; and Wall, Richard James, 3,635,583.
 Chilman, John Alfred; and Wall, Richard James, 3,635,584.
 Chilman, John Alfred; Loynes, Alfred Herbert Walter; and Spence, Peter, 3,637,323.
 Chilman, John Alfred, 3,638,421.
 Chilman, John Alfred; and Brooking, Ivor Harold, 3,647,320.
 Chilman, John Alfred, 3,664,763.
 Davies, Stuart Duncan; McCarthy, Roy Fred John; and Watts, Richard James, 3,664,764.
 Dowty Seals Limited: See—
 Green, Dermot, 3,653,673.
 Dowty Technical Developments, Limited: See—
 Boydell, Kenneth Raymond, 3,636,818.
 Boydell, Kenneth Raymond, 3,647,321.
 Boydell, Kenneth Raymond; and Flint, John Christopher Eglington, 3,667,867.
 Harding, John Kammerer, 3,654,908.
 Lambeth, Dennis Ernest, 3,636,820.
 McLeod, Donald Patterson, 3,645,171.
 McLeod, Donald Patterson, 3,669,568.
 Spence, Peter, 3,690,789.
 Doxey, Brian Cecil, to British Oxygen Company Limited, The. Line following. 3,703,674, 11-21-72, Cl. 318-577.000.
 Doxsee, Donald D. Barrier for parking spaces. 3,688,439, 9-5-72, Cl. 49-35.000.
 Doyen, Leon; and Doyen, Louis. Package for liquids and food products. 3,637,133, 1-25-72, Cl. 229-53.
 Doyen, Louis: See—
 Doyen, Leon; and Doyen, Louis, 3,637,133.
 Doyle, Brian W.: See—
 Rygelis, Joseph; Sweet, Ervin J.; and Doyle, Brian W., 3,672,162.
 Sweet, Ervin J.; Doyle, Brian W.; and Rygelis, Joseph, 3,698,743.
 Doyle, Brian W., to Avco Corporation. Annular combustors. 3,671,171, 6-20-72, Cl. 431-116.000.
 Doyle, Brian W.; Rygelis, Joseph; and Sweet, Ervin J., to Avco Corporation. Combustion liner assembly. 3,692,334, 9-19-72, Cl. 285-41.000.
 Doyle, Diane J.: See—
 Peyser, Harry A.; and Doyle, Diane J., 3,641,992.
 Doyle, Diane J.; and Peyser, Harry A., to Continental Can Company, Inc. Stove top heating containers. 3,659,584, 5-2-72, Cl. 126-369.
 Doyle, George Mitchell; Humphreys, Robert Eric; and Moring, Peter Lothar Ernst, to Dunlop Holdings Limited. Rubber compositions. 3,671,478, 6-20-72, Cl. 260-23.70m.
 Doyle, Gerald: See—
 Kroll, Wolfram R.; and Doyle, Gerald, 3,689,433.
 Kroll, Wolfram R.; Doyle, Gerald; and Ruhle, Helmut W., 3,691,095.
 Doyle, Gerald. Olefin disproportionation. 3,686,136, 8-22-72, Cl. 252-429.00b.
 Doyle, James R., to Towmotor Corporation. Container handling vehicle. 3,669,290, 6-13-72, Cl. 214-392.000.
 Doyle, Peter; and Stacey, Joseph Gilbert, to Imperial Chemical Industries, Limited. Certain pyridyl malonates. 3,673,198, 6-27-72, Cl. 260-295.00r.
 Doyle, Peter; and Stacey, Joseph Gilbert, to Imperial Chemical Industries Limited. Pharmaceutical compositions of phenyl, pyridyl, alkanic acid and derivatives thereof. 3,699,227, 10-17-72, Cl. 424-263.000.
 Doyle, Richard H., to Fastener Corporation. Fastener driving tool. 3,673,922, 7-4-72, Cl. 91-422.000.
 Doyle, Thomas E.: See—
 Szwarc, John J.; and Doyle, Thomas E., 3,638,312.
 Doyle, Thomas J.: See—
 Todd, William D.; and Doyle, Thomas J., 3,632,467.
 Doyle, Timothy J., to United States of America, Navy. Magnetically shielded electrical machine with super-conducting filed windings. 3,657,580, 4-18-72, Cl. 310-52.000.
 Doyle, Walter M. Shielded pyroelectric detector apparatus and method. 3,675,017, 7-4-72, Cl. 250-83.30h.
 Doyle, William C., Jr.; and Ahle, James L., to Gulf Research & Development Company. Combating pigweed in sugar beet fields. 3,650,728, 3-21-72, Cl. 71-88.
 Doyle, William C., Jr., to Gulf Research & Development Company. Method of manufacturing allyl N,N-dialkylthiolcarbamates. 3,676,479, 7-11-72, Cl. 260-455.00a.
 Doyle, William Carter, Jr., to Gulf Research & Development Company. 2,3-Epithiopropyl N,N-dialkylthiolcarbamates and use as herbicides. 3,634,457, 1-11-72, Cl. 260-327.
 Doyle, William Carter, Jr., to Gulf Research & Development Company. Method of combating unwanted vegetation. 3,682,617, 8-8-72, Cl. 71-94.000.
 Doyle, William P.: See—
 Michelson, Malvin J.; and Doyle, William P., 3,679,680.
 Doynow, David. Baseball pitcher's practice device. 3,633,909, 1-11-72, Cl. 273-26.
 Dozier, Willie L.; and Carter, James M., Jr., to Top Aid Corporation. Selective programming control system for tuning and recording. 3,681,541, 8-1-72, Cl. 179-100.110.
 Drab, Edwin H.: See—
 Mosher, Douglas E.; Treat, Carleton H.; and Drab, Edwin H., 3,704,866.
 Drabb, Thomas Walter, Jr.: See—

- Addor, Roger William; and Drabb, Thomas Walter, Jr., 3,632,862.
- Addor, Roger Williams; and Drabb, Thomas Walter, Jr., 3,700,772.
- Drabek, Jan; Horak, Oto; Ditrych, Zdenek; and Zahorovsky, Svatoslav, to Vyzkumny ustav syntetickych pryskyric a laku. Process for the production of polyimide castings. 3,658,975, 4-25-72, Cl. 264-94.
- Drabek, Josef: See—
Martin, Henry; and Drabek, Josef, 3,705,904.
- Drabek, Jozef: See—
Martin, Henry; and Drabek, Jozef, 3,705,212.
- Draber, Wilfried: See—
Buchel, Karl Heinz; Draber, Wilfried; and Hammann, Ingeborg, 3,689,664.
- Buchel, Karl-Heinz; Draber, Wilfried; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,641,098.
- Draber, Wilfried; Buchel, Karl Heinz; Hammann, Ingeborg; and Unterstenhofer, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. α -Halo- α -formyl-carbonyl-phenylhydrazones. 3,636,112, 1-18-72, Cl. 260-566.
- Draber, Wilfried; Buchel, Karl Heinz; and Plempel, Manfred, to Farbenfabriken Bayer Aktiengesellschaft. N-Substituted imidazoles and their salts. 3,647,816, 3-7-72, Cl. 260-309.
- Drabert, Fritz; and Geffers, Klaus, to Drabert Sohne, Firma. Adjustable foot rests. 3,653,715, 4-4-72, Cl. 297-439.
- Drabert, Fritz, to Drabert Sohne. Castors for chairs and other articles of furniture. 3,691,590, 9-19-72, Cl. 10-18.000.
- Drabert Sohne: See—
Drabert, Fritz, 3,691,590.
- Drabert Sohne, Firma: See—
Drabert, Fritz; and Geffers, Klaus, 3,653,715.
- Draca, Cedo. Wire bristle for use in making brushes and brooms. 3,633,235, 1-11-72, Cl. 15-159.
- Draca, Cedo. Method for the production of abrasive brushing elements. 3,669,850, 6-13-72, Cl. 204-16.000.
- Drachenberg, Werner: See—
Helmut, Werner; Frank, Dieter; and Drachenberg, Werner, 3,676,245.
- Drackett Company, The: See—
Corbin, Dennis D.; Marquardt, Robert F.; and Gabby, John Lester, 3,682,652.
- Mack, Frank Joseph; and Simpkins, Terry John, 3,698,021.
- Drackett Company, The, mesne: See—
Klausner, Kenneth, 3,666,668.
- Dracon Industries: See—
Drake, King B., 3,641,476.
- Drake, King B., 3,664,514.
- Drake, King B., 3,675,183.
- Drahtex, GmbH: See—
Kruschwitz, Werner, 3,638,359.
- Niemanns, Gerd, 3,665,646.
- Drage, James John, to Sumlock Anita Electronics Limited. Shift register operated calculating machines. 3,638,005, 1-25-72, Cl. 235-160.
- Drage, James John; and Kitz, Norbert, to Bell Punch Company Limited. Number positioning display for electronic calculating machines. 3,639,742, 2-1-72, Cl. 235-160.
- Drage, James John, to Sumlock Anita Electronics Limited. Number glow tubes having transformer energizing circuits. 3,666,987, 5-30-72, Cl. 315-84.6.
- Dragerwerk Aktiengesellschaft: See—
Breiling, Hans Georg, 3,651,805.
- Dobritz, Gunter, 3,669,134.
- Warncke, Ernst, 3,680,555.
- Warnow, Detlef, 3,664,370.
- Dragerwerke Aktiengesellschaft: See—
Breiling, Hans Georg, 3,671,024.
- Dragsisch, Myron, to Warner & Swasey Company, The. Twister device. 3,670,487, 6-20-72, Cl. 57-77.300.
- Dragsisch, Myron, to Warner & Swasey Company, The. Compensator device. 3,670,978, 6-20-72, Cl. 242-54.400.
- Dragoco Spezialfabrik Kong, Riech-und Aroma-Stoffe Gerberding & Co., GmbH: See—
Huth, Heinz, 3,681,090.
- Dragon, James W.; and Ocken, Alfred G., to Motorola, Inc. Evaporation emission control device for fuel tanks. 3,662,725, 5-16-72, Cl. 123-136.000.
- Dragone, John J.: See—
McLeod, David P.; Lutz, Allen L.; and Dragone, John J., 3,689,735.
- Dragonenko, Anatoly Alexandrovich: See—
Karakashian, Zaven Oganezovich; Lazarian, Vsevolod Arutjunovich; Azarov, Boris Vasilievich; Bolotin, Mikhail Mikhailovich; Pershin, Vladimir Yakovlevich; Timoshuk, Albert Isidorovich; Dragonenko, Anatoly Alexandrovich; Zarakovich, Ilya Yakovlevich; and Svdirov, Mikhail Vasilievich, 3,656,632.
- Dragoo, Sherman L., to Corrugated Finishing Products, Inc. Method for producing cutting rules. 3,677,111, 7-18-72, Cl. 76-101.00r.
- Dragsund, Inge Kore; and Naas, Erling M., to A/S Hydraulik Brattvaag. Hydraulic systems. 3,667,859, 6-6-72, Cl. 415-148.000.
- Dragn, Henry L.: See—
Swayne, Kenneth G.; and Dragn, Henry L., 3,663,670.
- Drahonovsky, Michael, to Vockenhuber, Karl and Hauser, Raimund. Cinematographic taking-or reproducing apparatus. 3,637,162, 1-25-72, Cl. 242-188.
- Drain, John E. Plug nozzle attitude control device. 3,647,161, 3-7-72, Cl. 244-3.2.
- Drain, James Joseph, to American Cyanamid Company. Animal feed compositions and methods for using the same. 3,639,595, 2-1-72, Cl. 424-227.
- Drain-Away, Inc.: See—
Kundert, Robert L., 3,692,040.
- Drais, Jack A.: See—
Brandon, William D.; and Drais, Jack A., 3,690,639.
- Draiswerke G.m.b.H.: See—
Engels, Kaspar, 3,640,476.
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Daigle, Donald J.; Chance, Leon H.; and Drake, George J., Jr., 3,694,256.
- Drake, George L., Jr.: See—
Beninate, John V.; Daigle, Donald J.; Drake, George L., Jr.; Reeves, Wilson A.; and Donaldson, Darrell J., 3,697,316.
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- Donaldson, Darrell J.; Normand, Floyd L.; and Drake, George L., Jr., 3,698,854.
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Case, Roger L.; and Drake, Jack W., 3,659,331.
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Harrison, Sol Esther; and Drake, Robert, 3,690,889.
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Vadas, Leslie; and Drake, Robert W., 3,656,527.
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Cosgrove, John Travers; and Drake, Ronald, 3,684,114.
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Adamek, John A.; Draugelis, Vaidevutis C.; and Oriel, George J., 3,635,553.
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Draving, Walter J.; and Draving, Robert C., 3,694,913.
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Allison, Robert J.; Hatfield, Paul E.; and Frummerman, Robert, 3,669,623.
- Anthes, John A.; and Vlnaty, Joseph, 3,635,456.
- Coulter, Stanley M.; and Mevissen, Ernst A., 3,679,195.
- McLean, William B.; and Naruns, Laimons, 3,653,486.
- Mevissen, Ernst A.; and Coulter, Stanley M., 3,653,648.
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- Mevissen, Ernst A., 3,695,602.
- Smith, George A., 3,679,071.
- Veith, Werner, 3,655,174.
- Drawert, Manfred: See—
Burba, Christian; Drawert, Manfred; Voigt, Hartmut; and Griebisch, Eugen, 3,697,458.
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James David, 3,649,418.
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Williams, Frederick R., 3,668,367.
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- Drebes, Armin: See—
Strossner, Johannes; and Drebes, Armin, 3,643,637.
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Stanton, Garth M.; and Drehe, John L., 3,692,677.
- Dreher, Albert H.: See—
Dreher, Robert F.; and Dreher, Albert H., 3,636,312.
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Sydansk, Robert D.; and Dreher, Karl D., 3,648,770.
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Box, E. O., Jr.; Drehman, Lewis E.; and Farha, Floyd E., Jr., 3,674,706.
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Miles, Edwin R.; and Dreier, Donald E., 3,640,132.
- Dreier, Melvin E. Feed bunk shovel. 3,659,888, 5-2-72, Cl. 294-49.
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Stewart, Aubrey P., Jr.; Dreir, Clarence R.; and Falk, John D., 3,666,497.
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Teske, Fritz; Teske, Lothar; and Dreismann, Robert, 3,700,248.
- Dreissen, Hubert H.: See—
Leeman, Jan N. J.; and Dreissen, Hubert H., 3,687,284.

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- Dren, Anthony Thomas: See—
Plotnikoff, Nicholas Peter; Dren, Anthony Thomas; and Jochimsen, William George, 3,706,831.
- Drenning, John F.: See—
Brown, William A.; and Drenning, John F., 3,672,871.
- Drent, Donald H., to Rospatch Corporation. Label stacking. 3,643,556, 2-22-72, Cl. 93-93.
- Drenten, Richard C., to Honeywell Information Systems Inc., mesne. Connector for printed wiring boards. 3,643,204, 2-15-72, Cl. 339-17.
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- Dres, Johannes Karel, to Canadian Vickers Limited. Method and apparatus for fishing. 3,662,484, 5-16-72, Cl. 43-4.5.
- Drescher & Kiefer Altenmittlau Gelnhausen: See—
Reitzel, George, 3,692,078.
- Dresden, Du Wayne D., to General Motors Corporation. Swivel seat locking mechanism. 3,659,895, 5-2-72, Cl. 296-65.
- Dressel, Edwin J.; Petrie, Warren A.; Shaw, Clarence W.; Grinbergs, Janis; Isakson, John E.; and Adams, Martin C., to McDermott, J. Ray, & Co., Inc., mesne. Pipe tensioning apparatus. 3,658,222, 4-25-72, Cl. 226-25.
- Dressel, William G.: See—
Germain, Andrew G.; and Dressel, William G., 3,675,518.
Germain, Andrew G.; and Dressel, William G., 3,684,004.
- Dresser Industries, Inc.: See—
Barrett, Charles E.; and Jacobson, David R., 3,681,990.
Bissell, Robert D., 3,641,820.
Blattner, Raymond J., 3,678,744.
Bohn, Floyd O.; and McLaughlin, Russell A., 3,666,030.
Bullen, Ronald S., 3,664,422.
Bullen, Ronald S., 3,690,379.
Burleson, E. Richard; and Davis, Carl H., 3,670,880.
Conn, William M., 3,659,660.
Conn, William M., 3,705,635.
Cope, Geoffrey W.; and Skinner, George C., 3,678,442.
Cope, Geoffrey Wilton, 3,696,941.
Crow, Morgan L., 3,705,750.
Culver, Richard D., 3,668,426.
Davies, Ben; and Henry, George R., 3,635,740.
Drouet, James M., 3,695,369.
Dunton, John T.; and Van Houtte, Richard G., 3,653,695.
Dyer, Norman D., 3,664,184.
Dysart, Theodore R., 3,659,663.
Ferrill, Homer E., 3,690,682.
Feucht, Jacob E., 3,701,386.
Fillion, Stanley H., 3,664,269.
Fillion, Stanley H., 3,670,662.
Gerry, Paul W., 3,636,392.
Gorgens, Joseph E.; Heske, William A.; and Goff, Randall, 3,691,843.
Griffin, Phil, III; and Phillips, Willard C., 3,658,015.
Harper, James C., 3,673,974.
Henry, Ralph E., 3,685,840.
Henry, Ralph E.; and Kohanski, Robert F., 3,687,577.
Hopkinson, Eric C.; and Youmans, Arthur H., 3,691,378.
Hopkinson, Eric C.; and Youmans, Arthur H., 3,705,304.
Hulslander, William L., 3,647,181.
Janssen, Herman W., 3,660,755.
Janssen, Hermann W.; and Mooring, James F., 3,701,902.
Jones, William P., 3,666,555.
Kish, George D.; Montesi, Robert P.; and Smith, Gerald B., 3,662,450.
Lichte, Carl L., 3,659,659.
McGlothlin, Raymond E.; and Baggett, James C., 3,658,701.
Meripol, Robert B., 3,689,206.
- Mitchell, Joseph A.; and Dyer, Norman D., 3,633,767.
Nell, David J.; and Lewis, Thomas W., II, 3,671,302.
Nell, David J.; and Lewis, Thomas W., II, 3,698,942.
Nelson, Dana W., 3,655,944.
Ott, Eugene G., 3,696,876.
Patterson, William B., Jr., 3,634,227.
Paulsen, Walter A.; and Johnston, Robert R., 3,706,361.
Reese, Anthony L., 3,701,362.
Schultz, Roger L.; Baggett, James C.; and McGlothlin, Raymond E., 3,639,233.
Sharki, Martin J.; and Mazoch, Charles J., 3,698,003.
Talbert, Milton L., 3,633,691.
Turner, Ernest, 3,665,537.
Walker, Harold D., 3,648,785.
Werlein, Eugene R.; Hollingsworth, John W.; and Pinson, Lyn-don D., 3,699,231.
Wetterhorn, Richard H., 3,702,141.
Williams, Robert C., 3,701,382.
Wilson, Billy F., 3,654,470.
Wishon, Berhl E.; and Crosby, Donald P., 3,656,978.
Yehl, Frank A., 3,664,674.
Youmans, Arthur H., 3,648,515.
Youmans, Arthur H., 3,662,172.
Youmans, Arthur H., 3,662,173.
Youmans, Arthur H., 3,665,195.
Youmans, Arthur H., 3,688,114.
Youmans, Arthur H., 3,706,884.
Young, James W.; Cason, George A.; and Kunkel, Ernest O., 3,659,661.
- Dresser Industries, Inc., mesne: See—
Berriman, Lester P., 3,669,879.
Clynch, Frank, 3,658,148.
Robinson, Charles L.; and Clynch, Frank, 3,632,172.
- Dressler, Edward T., Jr., to Westinghouse Air Brake Company. Wheel slip detector having fluid logic devices. 3,638,856, 2-1-72, Cl. 235-201.
- Dressler, Hans: See—
Reabe, Kenneth G.; and Dressler, Hans, 3,644,534.
- Dreve, Wendel E., Jr. Guy wire rust inhibitor applicator. 3,662,707, 5-16-72, Cl. 118-7.000.
- Drever Company: See—
Hollyer, John R.; and Andreas, Robert A., 3,650,282.
- Drevet, Georges, to Manufacture Francaise d'Armes et Cycles de Saint Etienne. Barrel backing means for a double-barrelled sport-ing gun. 3,636,646, 1-25-72, Cl. 42-44.
- Drevet, Jean: See—
Aglaghanian, Jacques; and Drevet, Jean, 3,667,076.
- Drew Chemical Corporation: See—
Mauter, David J.; and Antinori, Jack A., 3,650,677.
Petrey, Ernest Q., Jr., 3,699,047.
Petrey, Ernest Quentin, Jr.; and Werner, Ronald M., 3,699,052.
Silverstein, Ronald M., 3,687,859.
- Drew, Dennis H.; and Hecht, Paul F. Safety container. 3,669,296, 6-13-72, Cl. 215-9.000.
- Drew, Gene R., to United States of America, Navy. Slug throwing deployment apparatus. 3,646,847, 3-7-72, Cl. 89-1.
- Drew, Harold E.: See—
Burman, Per Aron; and Drew, Harold E., 3,673,384.
- Drew, Thomas A.: See—
Noar, Raymond; Tuffias, Robert H.; Gow, Kenneth P.; and Drew, Thomas A., 3,706,231.
- Drew, William G. Powered lid orientor. 3,682,292, 8-8-72, Cl. 198-33.0ad.
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- Drewry Photocolor Corporation: See—
Harman, John N., Jr., 3,656,850.
Livingood, James S., 3,689,149.
- Drews, Harvey J.; and Raffensperger, Stanley P., to White Lily Foods Company, The, mesne. Packaged mixes for flavored food products and the process of making them. 3,671,264, 6-20-72, Cl. 99-94.000.
- Drews, Reinhold A.: See—
Berry, William R.; Drews, Reinhold A.; and Grau, Julius J., 3,673,592.
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- Drexel, Charles F., to Tylan Corporation. Thermal valve. 3,650,505, 3-21-72, Cl. 251-11.
- Drexel Dynamics Corporation: See—
McMillan, Harry C., 3,637,100.
- Drexel University: See—
Herczfeld, Bonita Falkner; Herczfeld, Peter R.; and Klafter, Richard D., 3,704,706.
- Drexelbrook Controls, Inc.: See—
Maltby, Frederick L., 3,665,301.
Maltby, Frederick L., 3,706,980.

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- Dreyer, Robert N.: See—
Guarnaccio, Anthony J.; and Dreyer, Robert N., 3,684,506.
- Dreyfus, L. A. Company: See—
Phillips, Michael, 3,644,169.
Phillips, Michael; and Jurow, Victor A., 3,706,419.
- Dreyfus, Russell W., to International Business Machines Corpora-tion. Storage tube with pointwise erase capability. 3,657,709, 4-18-72, Cl. 340-173.
- Dreyling, Alfred P.; and Dreyling, Lewis J., to Quigley Company, Inc. Refractory composition. 3,656,977, 4-18-72, Cl. 106-55.
- Dreyling, Lewis J.: See—
Dreyling, Alfred P.; and Dreyling, Lewis J., 3,656,977.
- Driesenga, Edwin J.: See—
Van Ryn, Edwin; and Driesenga, Edwin J., 3,673,634.
- Driessen, Antonius Jozephus Gerardus Cornelis: See—
Jacobs, Cornelis Adrianus Joannes; Beijer, Louis Benjamin; and Driessen, Antonius Jozephus Gerardus Cornelis, 3,639,801.
- Driessen, Gerald J., to Schreiber, L. D., Cheese Co., Inc. Stacking mechanism. 3,683,730, 8-15-72, Cl. 83-27.000.
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Bures, John W., II, 3,704,757.
- Drillick, Jacob H., to Data Card Corporation. High speed automatic card embosser. 3,638,563, 2-1-72, Cl. 101-18.
- Drinkard, B. M.: See—
Allen, Paul T.; and Drinkard, B. M., 3,698,157.
- Drinkard, B. M.; Allen, Paul T.; and Unger, Edward H., to Mobil Oil Corporation. Separation of C₈ aromatics mixture with production chromatography. 3,653,184, 4-4-72, Cl. 55-67.
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Dilgren, Richard E.; and Drinkard, Gary, 3,695,354.
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- Drinkard, William C., Jr.; and Taylor, Brian William, to Du Pont de Nemours, E. I., and Company. Hydrocyanation of olefins. 3,694,485, 9-26-72, Cl. 260-465.80r.
- Drinkard, William Charles, Jr., to Du Pont de Nemours, E. I., and Company. Hydrocyanation of olefins. 3,655,723, 4-11-72, Cl. 260-465.3.
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Bonnier, Etienne; Allibert, Colette; Driole, Jean; and Wicker, Alain, 3,672,872.
Bonnier, Etienne; Allibert, Colette; Driole, Jean; and Wicker, Alain, 3,700,428.
- Driscoll, David M. Signaling and indicating system. 3,668,640, 6-6-72, Cl. 340-167.00b.
- Driscoll, Gary L.: See—
Duling, Irl N.; Schneider, Abraham; and Driscoll, Gary L., 3,639,351.
Duling, Irl N.; Driscoll, Gary L.; and Moore, Robert E., 3,692,750.
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- Driscoll, Gary L.; and Kerr, David L., to Sun Oil Company. Oligimerization of isobutene and methylstyrene. 3,657,369, 4-18-72, Cl. 260-669.
- Driscoll, Gary L., to Sun Oil Company. Unsaturated polyesters prepared from α,α , dimethyl muconic acids. 3,671,572, 6-20-72, Cl. 160-485.00g.
- Driscoll, Gary L., to Sun Research and Development Company. Phosphorus compound promoted oligomerization of isobutene. 3,707,582, 12-26-72, Cl. 260-683.15b.
- Driscoll, Hiram E., to Hercules Incorporated. Electric initiators for high energy firing currents. 3,683,811, 8-15-72, Cl. 102-28.000.
- Driscoll, James A. Outboard motor stabilizer. 3,693,576, 9-26-72, Cl. 115-41.00r.
- Driscoll, James E. Gauge for placing golf ball tees. 3,658,331, 4-25-72, Cl. 273-33.
- Driscoll, John J., to Allied Research Associates, Inc. Bullet trap. 3,664,263, 5-23-72, Cl. 102-65.2.
- Driscoll, John Joseph, to Bell Telephone Laboratories, Incorporated. Precessed pulse test arrangement. 3,634,633, 1-11-72, Cl. 179-175.2.
- Driscoll, Michael M.: See—
Healey, Daniel J., III; and Driscoll, Michael M., 3,697,890.
- Driscoll, Patrick R.; and Kaufman, Harold A., to Mobil Oil Corpora-tion. N-benzothienylchloroacetamides. 3,636,050, 1-18-72, Cl. 260-330.5.
- Driscoll, Patrick R., to Mobil Oil Corporation. 3-Thiadiazolyl-tetrahydro-1,3,5-oxadiazin-4-ones. 3,655,659, 4-11-72, Cl. 260-244.
- Driscoll, Patrick R., to Mobil Oil Corporation. Use of pyridylthiu-ronium salts as fungicides. 3,655,898, 4-11-72, Cl. 424-263.
- Driscoll, Richard E., to Cities Service Company. Process for wet pel-letizing carbon black. 3,636,188, 1-18-72, Cl. 264-117.
- Driscoll, Richard E., to Cities Service Company. Manufacture of pig-mentary silica. 3,660,025, 5-2-72, Cl. 23-182.
- Driscoll, Richard E., to Cities Service Company. Hydrolysis of sil-icon tetrafluoride. 3,661,519, 5-9-72, Cl. 23-182.
- Driscoll, Richard E.; and DeCuir, George L., to Cities Service Com-pany. Generation of silicon tetrafluoride. 3,674,431, 7-4-72, Cl. 23-205.000.
- Driscoll, Rosemary F. Laundering clasp. 3,673,639, 7-4-72, Cl. 24-16.0pb.
- Driscoll, Vance J., to Amoco Production Company. Multiple producing intervals to suppress coning. 3,638,731, 2-1-72, Cl. 166-314.
- Driskell, Carl R., to United States of America, Navy. Periscope stadimeter simulator with camera sweep delay. 3,671,391, 6-20-72, Cl. 178-6.800.
- Driskell, Carl R., to United States of America, Navy. Submerged periscope simulator. 3,698,102, 10-17-72, Cl. 35-25.000.
- Driskill, Robert E. Auxiliary electrical generating system for jet air-craft. 3,662,975, 5-16-72, Cl. 244-58.
- Drisko, Richard W.; and Kiefer, Earl J., to United States of America, Navy. Anode system for cathodic protection of stretched chain. 3,635,813, 1-18-72, Cl. 204-197.
- Drislane, Cornelius J., to Raytheon Company. Antenna slew system. 3,646,564, 2-29-72, Cl. 343-766.
- Drits, Leonid Borisovich: See—
Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Ru-bina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov Nikolai Nikolaevich; Purnmalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and rits, Leonid Borisovich, 3,683,683.
- Dritt, Harry J.: See—
Shimota, Robert E.; and Dritt, Harry J., 3,660,191.
- Driver, Michael C.: See—
Page, Derrick J.; and Driver, Michael C., 3,669,661.
- Driver, Michael C., to Westinghouse Electric Corporation. Low ther-mal impedance field effect transistor. 3,657,615, 4-18-72, Cl. 317-235.
- Driver, Michael C.; and Geisler, Martin J., to Westinghouse Electric Corporation. Process for producing self aligned gate field effect transistor. 3,675,313, 7-11-72, Cl. 29-571.000.
- Driver, Michael C., to Westinghouse Electric Corporation. Self-aligned gate field effect transistor and method of preparing. 3,678,573, 7-25-72, Cl. 29-571.000.
- Driver Southall Limited: See—
Forman, Arthur Walter; and Sitkowski, Mark, 3,642,080.
- Driver, Wilbur B. Company: See—
Majesko, George A., 3,647,424.
- Driver, Wilbur B. Company: See—
Starr, Carrol Dean; and Wang, Teh Po, 3,673,003.
Wang, Teh Po, 3,684,584.
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- Drobnik, Stephan, to Gesellschaft fur Kernforschung mbH. Method of removing nitric acid, nitrate ions and nitrite ions out of aqueous waste solutions. 3,673,086, 6-27-72, Cl. 210-59.000.
- Drohmann, Carl, Gesellschaft mit beschränkter Haftung: See—
Engelhardt, Walter; and Bernhardt, Bruno Friedrich, 3,676,980.
- Drohmann, Carl, GmbH: See—
Gabler, Friedrich; and Giordan, Artur, 3,667,628.
- Droke, Joseph W.; Hataway, James E.; and Russin, Nicholas C., to Eastman Kodak Company. Copolyester melt adhesive. 3,669,921, 6-13-72, Cl. 260-40.00r.
- Droll, Hans, to Balzer and Droll K.G. Machine for inserting windings into stators of electric motors. 3,636,613, 1-25-72, Cl. 29-205.

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- Drongeever Fortuyn, Koenraad. Apparatus and method to control damping of movable member in measuring instruments. 3,641,824, 2-15-72, Cl. 73-430.
- Drori, Moshe, to C.A.V. Limited. Liquid fuel injection pumping apparatus. 3,664,773, 5-23-72, Cl. 417-507.
- Drosdy Importers Proprietary Limited: *See—*
Morrison, Charles Archer, 3,662,322.
- Drosnin, Sidney S. Radiator fin-tube construction and method. 3,693,710, 9-26-72, Cl. 165-152.000.
- Drost, Rijkent Hendrik: *See—*
Goverde, Bastiaan Cornelis; Drost, Rijkent Hendrik; and Louwerens, Bernarus, 3,645,253.
- Droste, Wilhelm: *See—*
Scharf, Hans-Dieter; Droste, Wilhelm; and Liebig, Rita, 3,641,057.
- Drouet, James M., to Dresser Industries, Inc. Earth boring machine with a pivotal head. 3,695,369, 10-3-72, Cl. 175-45.000.
- Drouhard, Alfred J., Jr.; and Stinson, Joseph B., to Mansfield Sanitary, Inc. Apparatus for pneumatic transportation of sanitary waste from a toilet to a holding tank. 3,663,970, 5-23-72, Cl. 4-111.
- Drout, Frank G., to Armstrong Cork Company. Parallel strand reinforced cellular floor covering. 3,649,433, 3-14-72, Cl. 161-143.
- Drowatzky, Karl B. Smoke tree. 3,696,939, 10-10-72, Cl. 211-117.000.
- Drown, George C., 1/2 to Larson, Leward M. Vehicle tire air pressure monitoring system. 3,675,198, 7-4-72, Cl. 340-58.000.
- Downs, Ronald G. Multiple menu selector. 3,634,958, 1-18-72, Cl. 40-68.
- Drozd, Charles J.: *See—*
Haney, Ralph D.; Zachar, James E.; and Drozd, Charles J., 3,702,988.
- Drozdzowicz, Kenneth Paul; Fowler, William Rey; and Averkiou, George, to Motorola, Inc. Low saturation resistance, low offset voltage, monolithic analog switch. 3,665,266, 5-23-72, Cl. 317-235.00r.
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- Drucker, Kenneth Gus, to Bio-Consultants, Inc. Continuous flow centrifuge head construction. 3,675,846, 7-11-72, Cl. 233-26.000.
- Drucker, Rubin: *See—*
Reasenberg, Julian R.; and Drucker, Rubin, 3,702,865.
- Drucker, William A.: *See—*
Madden, Ernest Francis, 3,678,587.
- Drude, Edward H.; and Mangum, Bennie Franklin, to Scovill Manufacturing Company. Air gun having a safety nozzle. 3,647,142, 3-7-72, Cl. 239-288.3.
- Druet, Charles F. Device for the preparation of mixtures of liquids in pre-determined proportions and quantities. 3,676,932, 7-18-72, Cl. 33-126.70a.
- Druet, Monique: *See—*
Makula, Daniel; Druet, Monique; and Gonthier, Beatrice, 3,696,099.
- Druey, Jean; and Schmidt, Paul, to Ciba-Geigy Corporation. N-Substituted pyrazolo-pyrimidines. 3,682,918, 8-8-72, Cl. 260-256.40f.
- Drug Research, Inc.: *See—*
Paterson, Laurence O., 3,647,836.
- Drugmand, Lester D.; and Cunningham, Donald M., to Emerson Electric Co. Electric surface heater assembly. 3,644,710, 2-22-72, Cl. 219-463.
- Drugmand Lester D.; and Kozbelt, Lloyd S., to Emerson Electric Co. Electric heating elements. 3,668,598, 6-6-72, Cl. 338-274.000.
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- Drugmand, Lester D.; and Temple, Sidney J., to Emerson Electric Co. Electric immersion heaters. 3,673,386, 6-27-72, Cl. 219-523.000.
- Drugmand, Lester D.; and Volker, John F., to Emerson Electric Co. Electric heaters. 3,673,387, 6-27-72, Cl. 219-532.000.
- Druin, Melvin L.; Loft, John T.; and Plovan, Steven G., to Celanese Corporation. Open-celled microporous film. 3,679,538, 7-25-72, Cl. 161-159.000.
- Drukker, Alexander E., to Colgate-Palmolive Company. 11-Aminoalkylidenemorphanthridines. 3,699,099, 10-17-72, Cl. 260-239.00d.
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- Druliner, Joe Douglas, to Du Pont de Nemours, E. I., and Company. Hydrocyanation of olefins. 3,652,641, 3-28-72, Cl. 260-465.8.
- Drum, Edward W., to Ransburg Electro-Coating Corporation. Condition responsive valve. 3,690,336, 9-12-72, Cl. 137-75.000.
- Drum, James R.: *See—*
Belknap, Charles B.; and Drum, James R., 3,687,326.
- Drum, James R.; and Temple, Philip A., to Hon Industries Inc. Filing units. 3,705,754, 12-12-72, Cl. 312-214.000.
- Drumheller, Kirk: *See—*
Sump, Kenneth R.; Robinson, Ramon K.; Drumheller, Kirk; and Howard, Boyd D., 3,666,846.
- Drummond, Linwood E.: *See—*
Roudabush, Robert L.; and Drummond, Linwood E., 3,641,108.
- Drummond, Ralph E.: *See—*
Brooks, James; Drummond, Ralph E.; Heinz, Frank J.; and Chambers, William W., 3,671,762.
- Drummond, Warren W., to PPG Industries, Inc. Glass fiber forming and supply package. 3,675,872, 7-11-72, Cl. 242-174.000.
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- Drummond, Warren W., to PPG Industries, Inc. Apparatus for drying textile material. 3,686,772, 8-29-72, Cl. 34-154.000.
- Drury, James A. Microscope slide dryer. 3,701,201, 10-31-72, Cl. 34-60.000.
- Drury, William R. Structural span. 3,670,351, 6-20-72, Cl. 14-1.000.
- Druschel, William O., to International Business Machines Corporation. Apparatus for detecting defects by optical scanning. 3,645,626, 2-29-72, Cl. 356-71.
- Druschel, William O., to International Business Machines Corporation. Mask overlay checking means. 3,674,487, 7-4-72, Cl. 96-41.000.
- Druschke, Wolfgang: *See—*
Distler, Harry; Widder, Rudi; Stanger, Bernd; Mueller, Alfred; and Druschke, Wolfgang, 3,687,886.
- Drutchas, Gilbert H.; and Clark, Hubert M., to TRW Inc. Full power braking system with skid control and redundant power steering. 3,675,422, 7-11-72, Cl. 60-54.50p.
- Drutchas, Gilbert H.; Berman, George A.; and Spencer, Phillip B., to TRW Inc. Flat side valve for a pump. 3,679,329, 7-25-72, Cl. 417-300.000.
- Drutchas, Gilbert H.; Atkin, Rupert L.; and Shaw, Garrett D., to TRW Inc. Four wheel skid control system with dynamic proportioning. 3,707,312, 12-26-72, Cl. 303-21.00f.
- Druth Packaging Corporation: *See—*
Notko, Michael F., 3,695,703.
- Drutz, Alvin S.: *See—*
Johnsen, Eric C.; Mc Kinnon, Eugene T.; and Drutz, Alvin S., 3,649,781.
- Druzba, Perry R., Jr.: *See—*
Goetz, Fred E.; Druzba, Perry R., Jr.; Hause, James R.; and Seeley, Gerard, 3,659,386.
- Dryan, James J.: *See—*
Scarnato, Thomas J.; Dryan, James J.; Lawler, Craig M.; and Sorensen, Robert, 3,678,671.
- Dryburgh, Paul E., to Universal Electric Company. Winding of electric motors. 3,648,938, 3-14-72, Cl. 242-1.1.
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- Drye, Lucien, to Jeumont-Schneider. Electrical rectilinear-motion devices. 3,681,629, 8-1-72, Cl. 310-14.000.
- Dryg, Charles J., to Iomec, Incorporated. Self-folding cable carrier. 3,647,936, 3-7-72, Cl. 174-69.
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- Drzala, Raymond J., to Allied Thermal Corporation. Apparatus for balancing fluid distribution systems. 3,640,307, 2-8-72, Cl. 137-557.
- DS-Chemie GmbH & Co. KG: *See—*
Schabel, Joachim; and Liebegott, Hans-Peter, 3,681,104.
- DSO "Avtomatizatsia I Priborostroenc": *See—*
Tsvetkov, Krum Kostov; Ezekiev, Ezekiya Gueorguiev; Nikolov, Petko Petrov; and Otsetov, Vassil Christov, 3,674,991.
- DSO "Balkancar": *See—*
Vitkov, Eil Slavchev; Petkov, Milko Ivanov; and Atanasov, Gueorgui Stoylov, 3,704,759.
- DTM Products Incorporated: *See—*
Snyder, Ernest L., 3,689,868.
- Du Bois, Bert, to Tenneco Inc. Multi-louvered roughness silencer. 3,680,660, 8-1-72, Cl. 181-48.000.
- Du Bois, Clair O.: *See—*
Du Bois, Clair O., 3,702,703.
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- Du Bois, Paul: *See—*
Bequet, Jean Francois; Van Asbroeck, Roger; and Du Bois, Paul, 3,661,694.

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- Du Bois, Robert J.: *See—*
Lichstein, Bernard M.; and Du Bois, Robert J., 3,657,235.
- Du Bois, Ronald S.: *See—*
Smith, Richard D.; and Du Bois, Ronald S., 3,656,737.
- Du Chaffaut, Jean Amaudric: *See—*
Bennett, Ian Cameron; and Du Chaffaut, Jean Amaudric, 3,701,713.
- Du Fort, Philippe: *See—*
Burriat, Jean; and Du Fort, Philippe, 3,650,948.
- Du Merle, Guy Charles Marie Joseph, to Societe de l'Aerotraine. Track for ground effect machines. 3,658,010, 4-25-72, Cl. 104-23.
- Du Pont, Anthony A. Ejector ram jet engine. 3,690,102, 9-12-72, Cl. 60-269.000.
- Du Pont de Nemours, E. I., & Company: *See—*
Vasta, Joseph A., 3,707,578.
- Du Pont de Nemours, E. I., and Comany: *See—*
Stone, Glenn Duane, 3,671,245.
- Du Pont de Nemours, E. I., and Company: *See—*
Aboul-Saad, Ibrahim Ahmed, 3,653,801.
- Abriss, Murray S.; and McDowell, Maurice J., 3,687,885.
- Adams, Charles D., 3,644,491.
- Adams, Charles D.; and Wommack, Joel B., Jr., 3,705,173.
- Adams, John B., 3,655,657.
- Adams, Philip E.; and Fearnow, Philip W., 3,678,140.
- Adelman, Robert Leonard, 3,639,365.
- Adesko, Paul L., 3,657,177.
- Agolini, Franco, 3,641,217.
- Agolini, Franco, 3,642,709.
- Agolini, Franco; and Angelo, Rudolph John, 3,668,057.
- Akell, Robert B., 3,644,214.
- Akell Robert B.; and Kemp, Harold S., 3,687,820.
- Akers, Richard L.; and Oplinger, Donald W., 3,675,863.
- Alder, Hanspeter, 3,674,560.
- Aldrich, Paul E., 3,646,070.
- Aldrich, Paul E., 3,657,439.
- Aldridge, Gerald Richard; Ehrich, Felix Frederick; and Struve, William Scott, 3,674,814.
- Almond, Robert James; and Hagan, Edward Francis, 3,687,552.
- Altai, Karl, 3,700,491.
- Anderson, Arthur William; and Truett, William Lawrence, 3,679,652.
- Anderson, Bernard F., 3,673,134.
- Anderson, Daniel Gustav; Gladding, Edward Karcher; and Sullivan, Raymond, 3,641,104.
- Anderson, Terry P.; and Parker, Fred W., 3,676,377.
- Andrews, Adlay B.; Coursen, David L.; and Loving, Frank A., Jr., 3,656,585.
- Andrews, Adlay B.; and Coursen, David L., 3,687,074.
- Angelo, Rudolph J., 3,666,612.
- Angelo, Rudolph John, 3,674,627.
- Antonelli, Joseph A.; and Boden, Herbert, 3,632,516.
- Apotheker, David, 3,635,920.
- Armstrong, William S., Jr.; Edwards, Webster H.; Laird, Joseph P.; and Vining, Roy H., 3,690,771.
- Aufdermarsh, Carl Albert, Jr.; and Fogiel, Adolf Wojciech, 3,674,721.
- Bacher, Rudolph John; and Nakayama, Takashi, 3,683,245.
- Bair, Thomas I.; and Morgan, Paul W., 3,673,143.
- Baird, Eugene M.; and Ullman, John G., 3,704,971.
- Baken, J. A. G., 3,662,439.
- Balchan, Anthony S.; and Cowan, George R., 3,667,911.
- Ballard, Edward C., 3,697,468.
- Balthis, Joseph H., Jr.; and Gilbert, Walter W., 3,634,030.
- Balthis, Joseph H., Jr., 3,686,031.
- Barkdoll, Archie E.; and Sargent, Peter B., 3,634,525.
- Barker, Arthur Frederick; and Nack, Edward John, 3,638,826.
- Barkley, John R.; O'Reilly, James J.; and Waring, Robert K., Jr., 3,701,585.
- Barlow, David O., 3,647,528.
- Barth, Walter J., 3,640,755.
- Bartlett, Philip Lee, 3,644,492.
- Bartlett, Philip Lee, 3,646,085.
- Bartlett, Philip Lee, 3,687,900.
- Baum, Martin D.; and Henry, Cyrus P., Jr., 3,652,275.
- Baxter, James Fletcher; and Debbas, Samir Costandi, 3,655,305.
- Bechtold, Max F., 3,651,003.
- Bechtold, Max F., 3,702,534.
- Bechtold, Max Fredrick; and Tullock, Charles William, 3,648,456.
- Beck, Robert Haun, 3,635,144.
- Bell, George F.; and Carson, Kit P., 3,649,409.
- Bellis, Harold Edward, 3,671,596.
- Bellis, Harold Edward, 3,672,964.
- Bellis, Harold Edward, 3,674,447.
- Bellis, Harold Edward, 3,697,296.
- Bellis, Harold Edward, 3,697,608.
- Ben, Victor Ralph; and Kay, Peter Steven, 3,667,207.
- Benjamins, Edwin, 3,634,526.
- Beresniewicz, Aleksander, 3,679,620.
- Berezin, Gilbert H., 3,646,010.
- Berezin, Gilbert H., 3,661,896.
- Berezin, Gilbert H., 3,697,593.
- Bergmann, Michael J., 3,679,943.
- Bergna, Horacio E., 3,671,201.
- Bergna, Horacio E., 3,679,442.
- Berr, Charles E., 3,637,592.
- Berry, Walter Cunningham, Jr., 3,671,653.
- Bierlein, John David, 3,650,601.
- Bigelow, John Howard, 3,637,392.
- Bigelow, John Howard, 3,652,287.
- Bigliano, Robert Paul; and Thaxton, Karl Lehman, 3,668,311.
- Biswell, Charles B.; and Johnston, Thomas F., 3,679,380.
- Bither, Tom Allen, Jr., 3,653,849.
- Bither, Tom Allen, Jr., 3,655,348.
- Blackwell, John, 3,652,532.
- Blackwell, John, 3,653,800.
- Blackwell, John, 3,656,880.
- Blackwell, John; Gumprecht, William Henry; and Starn, Roy Emerson, Jr., 3,656,991.
- Blackwell, John, 3,657,285.
- Blackwell, John; and Toji, Masuo, 3,667,897.
- Blackwell, John; and Tropea, Alfred, 3,678,028.
- Blackwell, John; Gumprecht, William Henry; and Starn, Roy Emerson, Jr., 3,706,525.
- Blackwell, John; and Wilks, Sherlock Edward, 3,707,348.
- Blake, Ralph Kingsley, 3,635,710.
- Blake, Ralph Kingsley, 3,649,270.
- Blake, Ralph Kingsley; and Overman, Joseph De Witt, 3,652,279.
- Blomberg, Richard N., 3,652,510.
- Blomberg, Richard N., 3,684,775.
- Blume, Roe C.; and Seufert, Ludwig E., 3,651,199.
- Bonner, Willard Hallam, Jr., 3,645,981.
- Bonner, Willard Hallam, Jr., 3,666,728.
- Bonner, Willard Hallam, Jr., 3,696,181.
- Borchardt, Hans J., 3,650,693.
- Borecki, William Joseph; and Gradishar, Frederick John, 3,638,786.
- Boswell, George A., Jr.; and Ripka, William Charles, 3,641,005.
- Boswell, George A., Jr., 3,647,830.
- Bouchard, Robert J., 3,681,262.
- Bowen, William W., 3,703,751.
- Bowman, John Michael, 3,686,143.
- Bowyer, Kern M.; and Coursen, David L., 3,660,808.
- Brake, Loren D., 3,636,108.
- Brake, Loren D.; and Stiles, Alvin B., 3,644,522.
- Brake, Loren D., 3,657,345.
- Brake, Loren D., 3,679,746.
- Brake, Loren D., 3,697,449.
- Brannan, James R., 3,706,640.
- Brannan, James R., 3,706,642.
- Brantley, Richard K., 3,646,059.
- Brasen, Wallace R., 3,632,417.
- Braun, Robert A., 3,684,771.
- Braun, Robert A., 3,704,255.
- Breda, Ernest J., 3,641,107.
- Breza, Cyril J., 3,661,659.
- Bride, John Edwin, 3,706,636.
- Bride, John Edwin, 3,706,637.
- Bride, John Edwin, 3,706,638.
- Bride, John Edwin; and Huba, Francis, 3,706,639.
- Bristol, John E., 3,654,247.
- Bristol, John E., 3,679,646.
- Bristol, John E., 3,679,647.
- Bristol, John E., 3,679,648.
- Bristol, John E., 3,697,495.
- Britton, Arthur Wray; Luckey, George Wilson; William, Glenn; and Snyder, John Douglas, 3,682,767.
- Brizzolara, Donald F.; and Quarles, Richard W., Jr., 3,682,872.
- Brodway, Nicolas, 3,652,729.
- Bruschek, Dieter; and Starr, Frank Clyde, Jr., 3,650,715.
- Buchanan, James B., 3,639,633.
- Buchanan, James B., 3,647,861.
- Buchanan, James B., 3,658,870.
- Bunger, Fred Lee; and Levitsky, Michael, 3,689,300.
- Bunger, Fred Lee; and Moore, Earl Phillip, Jr., 3,705,183.
- Bunting, William W., Jr.; Buskirk, Robert E.; Hogan, John P.; and Mahla, Elbert M., 3,704,975.
- Burich, William James, 3,702,292.
- Burns, Richard Charles, 3,668,074.
- Burt, Cortland Russell; and Ciavarrri, Peter Anthony, 3,647,455.
- Bush, John L.; and Milligan, Carl William, 3,649,578.
- Bydal, Bruce Alfred, 3,640,308.
- Cairncross, Allan; and Sheppard, William Arthur, 3,700,693.

Caldwell, Gary Lee; Eger, Thomas Richard; and Miller, Frederick Warren, 3,672,801.
 Campbell, John B., 3,639,493.
 Campbell, David Robert, 3,646,188.
 Campbell, John B., 3,639,492.
 Carboni, Rudolph A.; and Piki, Josef, 3,681,450.
 Carleton, John T., 3,683,847.
 Carlson, Dana Peter, 3,642,742.
 Carlson, Dana Peter, 3,674,758.
 Casler, Nancy Lee Cecile; and Vincentsen, Barbara Egee, 3,682,641.
 Cattermole, George R.; Cummings, Austin M.; and Lyrly, William M., 3,674,578.
 Caywood, Stanley William, Jr., 3,645,934.
 Chalmers, David Johnstone, 3,668,482.
 Chamness, Jame Thomas, 3,649,334.
 Chang, Catherine Teh-Lin, 3,661,588.
 Chay, Dong M.; and Iler, Ralph K., 3,676,086.
 Chay, Dong M.; Cumbo, Charles Carmen; Randolph, Michael J.; and Yates, Paul C., 3,676,477.
 Chen, Mark C.; and Sheppard, William A., 3,634,456.
 Chevrier, Jean-Claude Jacques, 3,663,739.
 Chia, Yuan-Tsan, 3,676,481.
 Chrisp, Joseph D., 3,706,607.
 Christoph, Frank Joseph, Jr., 3,632,834.
 Chu, Victor F. H.; and Cohen, Abraham B., 3,649,268.
 Clement, Robert A., 3,652,620.
 Coalson, Richard Leslie; and Grot, Walther Gustav, 3,684,747.
 Coates, John Stuart, 3,676,364.
 Coates, John Stuart, 3,682,850.
 Coffey, Charles Eugene, 3,657,317.
 Coker, James Newton, 3,652,480.
 Cole, Harold Wade, 3,638,873.
 Cole, John Elton, Jr., 3,700,398.
 Colson, James Guilbert, 3,640,956.
 Connair, Michael John, 3,674,534.
 Conwicke, Joel A., 3,684,533.
 Cook, Richard Erwin; Fitzhugh, Donald Lewis; and Lucky, George Wilson, 3,694,123.
 Cooner, William W., 3,704,185.
 Cooper, John Richard; and Perkins, Gilbert Thornton, 3,694,323.
 Coulson, Dale Robert, 3,691,250.
 Cover, Lloyd W., Jr.; and Webb, Charles C., 3,671,365.
 Cox, John J., Jr.; and Fisher, Richard G., 3,689,684.
 Craddock, Wayne Edward; and Smith, Stanley George, 3,645,200.
 Cramer, Richard D.; and Lindsey, Richard V., Jr., 3,636,122.
 Craven, James M., 3,645,978.
 Craven, James M., 3,657,186.
 Craven, James M., 3,674,749.
 Cuculo, John Anthony, 3,671,184.
 Culik, Rudolf; and Schneider, Jurg A., 3,636,219.
 Culik, Rudolf; and Schneider, Jurg A., 3,679,798.
 Curtin, Dennis Edward; and Hansen, John Edward, 3,706,111.
 Daniels, Alma U., 3,652,304.
 Daniels, Alma U., 3,674,443.
 Daniels, Alma U., 3,705,025.
 Dell, Curtis G.; Janzen, Dennis W.; and McGhee, John D., 3,643,491.
 Dessauer, Rolf, 3,661,461.
 Dessauer, Rolf, 3,704,127.
 Dhaliwal, Pritam Singh; and Jaffe, Edward E., 3,679,684.
 Dickinson, Clifford Lee, Jr., 3,665,009.
 Dietz, John W., 3,676,343.
 Dittmar, Bruce I., 3,641,048.
 Dittmar, Bruce I., 3,647,817.
 Dittmar, Bruce I., 3,662,069.
 Donohue, Paul Christopher, 3,634,335.
 Drinkard, William C., Jr.; and Lindsey, Richard V., 3,676,475.
 Drinkard, William C., Jr.; and Taylor, Brian William, 3,694,485.
 Drinkard, William Charles, Jr., 3,655,723.
 Druliner, Joe Douglas, 3,652,641.
 Duggins, Ray B.; and Gross, Robert J., 3,642,975.
 Dye, John I., 3,663,266.
 Dyk, John W.; and Wu, Dao-Tsing, 3,676,172.
 Eanzel, Albert R.; and Preston, John, 3,657,173.
 Edwards, Bernard S.; and Haskell, Vernon C., 3,656,993.
 Edwards, Webster H.; Miller, Earl A.; Scully, Thomas A.; Vining, Roy H.; and Wittman, David, 3,686,023.
 Ehrich, Felix Frederick, 3,632,588.
 Ehrich, Felix Frederick; and Marshall, William J., 3,647,494.
 Ellis, Linus M., 3,672,865.
 England, David C., 3,641,142.
 England, David C.; Raasch, Maynard S.; and Sheppard, William Arthur, 3,694,460.
 Erinjeri, Antony J., 3,702,288.
 Essex, Andrew Michael; and Heiart, Robert Bernard, 3,666,633.
 Eustice, Albert L., 3,646,158.
 Evans, Evan Franklin; and Pierce, Norwin Caley, 3,671,379.

Evans, William L., 3,698,316.
 Fang, James C., 3,637,569.
 Fang, James C., 3,657,380.
 Fang, James C., 3,661,831.
 Fields, David P., 3,649,171.
 Fields, Reuben Thomas, 3,635,631.
 Finlay, Joseph B.; and Hagman, John F., 3,655,827.
 Fintel, William Achard; Heighon, Harold Hubbard; and Rossman, John Guise, Jr., 3,705,227.
 Fitzgerald, David J.; and Soboczenski, Edward J., 3,649,241.
 Fleming, David Alexander, Jr.; and Rawlings, Gilbert Douglas, 3,660,222.
 Floria, Joseph A., 3,694,362.
 Floria, Joseph Angelo, 3,691,092.
 Fogiel, Adolf W., 3,663,465.
 Fogiel, Adolf Wojciech, 3,645,924.
 Foss, Robert Paul, 3,679,776.
 Frank, Herman J.; and Moch, Irving, Jr., 3,691,093.
 Franklin, Richard C., 3,681,320.
 Franklin, Richard C., 3,701,624.
 Franks, Roger G. E.; and Ritchey, Steven L., 3,660,247.
 Frazer, August Henry, 3,642,707.
 Fryd, Michael; and Kaminski, Walter W., 3,644,244.
 Fryd, Michael, 3,644,584.
 Fryd, Michael; and Lee, Ying K., 3,660,537.
 Fuchs, Julius J., 3,644,489.
 Furst, Karl-Heinz, 3,636,851.
 Gale, David M., 3,642,859.
 Gale, David M., 3,657,313.
 Gale, David M., 3,696,080.
 Gallagher, George Arthur; and Walter, Henry Clement, 3,687,777.
 Gallup, Arthur R., 3,655,853.
 Ganci, James B.; and Mastrangelo, Sebastian V. R., 3,647,651.
 Garris, George J., 3,663,382.
 Garris, George James, 3,687,622.
 Garth, Bruce H., 3,686,038.
 Garth, Bruce Hollis, 3,696,128.
 Gerike, Peter, 3,690,863.
 Gerlach, Howard G., Jr.; and Looney, Catharine E., 3,658,543.
 Gerow, Clare William, 3,642,569.
 Gerow, Stephen A.; and Weidman, Verne Wesley, 3,658,564.
 Gerow, Stephen A., 3,661,602.
 Gerow, Stephen A.; and Weidman, Verne Wesley, 3,663,250.
 Gladding, Edward K.; and Nyce, Jack L., 3,707,529.
 Goffinet, Edward P., Jr., 3,706,719.
 Goffinet, Edward Peter, Jr., 3,635,919.
 Golike, Ralph Crosby; Ostapchenko, George Joseph; and Garlington, William Drake, 3,663,662.
 Gosser, Lawrence Wayne, 3,673,270.
 Graham, Boynton, 3,634,252.
 Grand, John Richard, III, 3,687,787.
 Graves, Irving Stuart, 3,676,273.
 Gray, Michael Alexander Howat, 3,644,235.
 Gray, Russell Houston, 3,639,123.
 Gray, Walter Clarke, 3,701,248.
 Green, Larry O.; and Light, Larry L., 3,667,926.
 Greenwood, Edward J., 3,637,614.
 Gregory, Walter A.; and Kauer, James C., 3,639,443.
 Gresham, William Franklin; and Vogelpohl, Alfons Franz, 3,635,926.
 Griggs, Ernest Lee, Jr.; and Porter, John David, 3,679,153.
 Grot, Walther Gustav, 3,692,569.
 Grot, Walther Gustav, 3,702,267.
 Grubb, Eugene L., 3,647,467.
 Gummerman, Carl, 3,684,755.
 Hager, Thomas C., 3,646,186.
 Hagman, John F., 3,686,156.
 Hall, Elmer Linwood; and Looby, John Thomas, 3,702,773.
 Hall, Henry K., Jr.; and Plorde, Donald E., 3,646,150.
 Hall, Nelson Lee; and Slocum, Donald Hillman, 3,706,825.
 Halvorson, David O.; and Vines, Sterling N., 3,691,226.
 Hammer, Clarence Frederick, 3,653,803.
 Hammer, Clarence Frederick; and Sashihara, Thomas Fujio, 3,657,202.
 Hammer, Clarence Frederick; and Hickman, James Joseph, 3,657,394.
 Hammer, Clarence Frederick, 3,684,778.
 Hansen, John Edward, 3,650,884.
 Hansen, John Edward, 3,671,381.
 Hardy, Ralph W. F.; and Holsten, Richard D., 3,704,546.
 Hargreaves, Chester Arthur, II, 3,660,368.
 Harrell, Jerald R.; Logothetis, Anestis L.; and Verbanc, John J., 3,679,627.
 Harris, Max Emerson, 3,681,188.
 Hartig, Martval J., 3,664,906.
 Hartley, Irby Ennis, Jr., 3,640,058.
 Hartley, Irby Ennis, Jr., 3,702,528.
 Hartter, Donald Ray, 3,661,971.
 Haugh, Eugene Frederick, 3,658,526.
 Hawkins, William E., 3,655,307.
 Hawkins, William E., 3,660,549.
 Hawkins, William E., 3,686,374.
 Hays, Richard Young, 3,686,377.
 Hemphill, Virgil Dean, 3,637,873.
 Henry, Cyrus P., Jr.; and Jeffrey, John R., 3,658,542.
 Hermes, Matthew Edward, 3,642,681.
 Hill, James T.; and Garabedian, Michael E., 3,660,315.
 Hill, William Green; and Maxey, Whorley William, 3,662,440.
 Himelreich, Louis Eugene, Jr.; and Thomas, Nelson Arnold, 3,634,570.
 Hittel, Erwin Ross; and Rennie, Foster Wilson, 3,652,466.
 Hodge, George R.; and Patsis, Angelos V., 3,642,936.
 Hoell, Paul C., 3,699,267.
 Hoeschele, Guenther Kurt, 3,635,851.
 Hoeschele, Guenther Kurt, 3,636,117.
 Hoeschele, Guenther Kurt, 3,676,495.
 Hoeschele, Guenther Kurt, 3,694,386.
 Hoffman, Lewis C.; and Nakayama, Takashi, 3,666,505.
 Hoffman, Lewis Charles, 3,656,984.
 Hoffman, Lewis Charles, 3,684,536.
 Hoffmann, Conrad E., 3,659,015.
 Hollberg, Herbert John; and Owens, John Edward, 3,689,608.
 Holmes, David Alan, 3,704,272.
 Holmes, David Alan, 3,705,867.
 Holmes, David Alan, 3,707,517.
 Honsberg, Wolfgang, 3,660,017.
 Howard, Edward G., Jr., 3,671,509.
 Huba, Francis; and Bride, John Edwin, 3,706,641.
 Huba, Francis, 3,706,643.
 Hughes, Charles Thomas; and Paulsen, Duane Owen, 3,682,688.
 Hyde, Thomas J., 3,644,264.
 Hytrek, Frederick Paul, 3,674,705.
 Ibach, William F.; Looney, Franklin S., Jr.; and Reitz, David C., 3,664,381.
 Ida, Edward S.; Lechner, Alfred; and Parsons, James L., 3,696,206.
 Iler, Ralph K.; and Rigby, Eugene B., 3,660,050.
 Iler, Ralph K., 3,668,088.
 Iler, Ralph K.; and Palmer, Alan B., 3,669,695.
 Ingersoll, Henry Gilbert, 3,649,541.
 Inskip, Harold Kirkwood; and Adelman, Robert Leonard, 3,689,469.
 Irsay, Robert D., 3,678,170.
 Irwin, Carl Francis, 3,666,725.
 Isbell, Charles Levi, Jr., 3,645,683.
 Jackson, Bruce W., 3,689,593.
 Jackson, Roy; and Wehner, John Francis, 3,652,424.
 Jaffe, Edward E., 3,681,100.
 Jaffe, Edward E., 3,707,469.
 James, Daniel S., 3,676,050.
 James, Daniel Shaw, 3,646,072.
 James, Daniel Shaw, 3,649,162.
 Jayawant, Madhusudan D., 3,635,906.
 Jayawant, Madhusudan D., 3,642,877.
 Jenkins, Francis Edward, 3,674,719.
 Jennings, Uel Duane, 3,638,872.
 Johnson, Alexander L., 3,635,912.
 Johnson, Alexander Lawrence, 3,637,731.
 Johnson, Rayner S., 3,707,493.
 Johnson, Robert C.; and Merrifield, Richard E., 3,656,835.
 Johnson, Thomas, 3,699,085.
 Johnston, Thomas Emmett; and Sommers, Earl Eugene, 3,691,078.
 Jolley, John Eric; and Little, Ernest Lewis, Jr., 3,661,556.
 Jones, Frank N.; and Richardson, Ronald D., 3,666,769.
 Jones, Howard E., 3,663,624.
 Jones, John Lester William, 3,645,772.
 Jones, Richard Hamilton, 3,687,910.
 Josey, Alden Dwayne, 3,647,856.
 Kane, Thomas G.; and Robinson, William D., 3,668,166.
 Kegekman, Matthew R., 3,639,174.
 Kegelman, Matthew Roland, 3,647,557.
 Kelemen, Denis G., 3,674,515.
 Kendrick, Earl L.; and Sandberg, Harry W., 3,662,817.
 Khan, Ausat Ali, 3,686,154.
 Kilgren, Arnold W., 3,632,313.
 Kilgren, Arnold W., 3,689,039.
 Kilmurry, Lindsay, 3,657,220.
 Kirchner, Jack R., 3,650,985.
 Kissa, Erik, 3,660,008.
 Klabunde, Ulrich, 3,702,336.
 Klanberg, Frank Karl, 3,695,853.
 Klein, David Arthur, 3,707,546.
 Klenke, Edward F., 3,634,119.
 Klenke, Edward F.; and Lewis, George L., 3,650,790.
 Kloppling, Hein L., 3,632,601.
 Kloppling, Hein L., 3,636,005.
 Kloppling, Hein L., 3,705,939.
 Kloppling, Hein Louis, 3,657,443.
 Knoth, Walter H., Jr.; and Parshall, George W., 3,701,804.
 Knowles, Frederick Lynn, 3,649,726.

Knowles, Richard N., 3,632,831.
 Knowles, Richard N., 3,636,082.
 Knowles, Richard N., 3,670,019.
 Knowles, Richard N., 3,671,637.
 Knowles, Richard N., 3,671,638.
 Knowles, Richard N., 3,671,642.
 Knowles, Richard N., 3,676,562.
 Knowles, Richard N., 3,677,802.
 Knowles, Richard N., 3,678,109.
 Knowles, Richard N., 3,678,171.
 Knowles, Richard N.; and Arthur, Wilfred J., 3,679,805.
 Knowles, Richard N., 3,682,947.
 Knowles, Richard N., 3,683,001.
 Knowles, Richard N., 3,683,007.
 Knowles, Richard N., 3,683,022.
 Knowles, Richard N., 3,683,040.
 Knowles, Richard N., 3,686,303.
 Knowles, Richard N.; and Arthur, Wilfred J., 3,686,415.
 Knowles, Richard N., 3,689,675.
 Knowles, Richard N., 3,691,236.
 Knowles, Richard N., 3,697,307.
 Knowles, Richard N., 3,697,594.
 Knowles, Richard N., 3,705,128.
 Knox, Kenneth L.; and Jolliffe, Charles N., 3,632,726.
 Kohan, Melvin I.; Martin, Wayne H.; and Rosenbaum, Chester K., 3,676,400.
 Kolterman, Delbert W., 3,644,629.
 Konopik, Alvin E., 3,636,136.
 Kouba, Norman R., 3,649,530.
 Kowalewski, Alexander Joseph, 3,676,181.
 Kreuz, John Anthony; and Roper, Don Albert (said Kreuz assor. to), 3,684,646.
 Krueger, Achim R., 3,644,208.
 Kwolek, Stephanie Louise, 3,671,542.
 Langkammerer, Carl M., 3,642,904.
 Langkammerer, Carl M., 3,662,071.
 Langkammerer, Carl M., 3,689,659.
 Larry, John R., 3,672,934.
 Lavinder, Taylor Franklin, 3,668,948.
 Lawrence, Frederick R.; and Sullivan, Robert H., 3,687,981.
 Lee, Kyu Tai; and Whitney, Joel G., 3,655,694.
 Lee, Kyu Tai, 3,706,780.
 Lee, Kyu Tai; and Whitney, Joel G., 3,707,551.
 Leung, Peter S. K., 3,652,199.
 Leverett, Glenn Frederick, 3,690,569.
 Lieberman, Marvin Frank, 3,672,933.
 Linn, William Joseph; and Stiles, Alvin Barber, 3,655,724.
 Linton, Howard R., 3,639,133.
 Little, Ernest L., Jr.; and Wolf, Jack D., 3,663,318.
 Little, Ernest Lewis, Jr., 3,672,867.
 Lohr, James E., 3,671,412.
 Lohr, James E., 3,679,618.
 Loux, Harvey M., 3,664,823.
 Low, David N., 3,690,041.
 Lui, Andrew Tze-Chiu, 3,658,774.
 Lulay, Arthur, 3,663,676.
 MacDonald, Robert Neal, 3,664,986.
 Magat, Eugene Edward; and Tanner, David, 3,670,048.
 Mantell, Gerald J.; and Rondstedt, Christian S., Jr., 3,676,500.
 Maros, Frank George; May, Jeffrey Scott; and Ramsey, Harold Eugene, 3,636,678.
 Martin, Elmore L., 3,655,623.
 Martin, Elmore L., 3,687,987.
 Martin, Elmore Louis, 3,681,353.
 Martin, Joshua W., III, 3,658,268.
 McClellan, William; and Stiles, Alvin B., 3,640,900.
 McCullough, James D., 3,659,350.
 Mc Kusick, Blaine Chase, 3,700,689.
 McBride, Richard T., 3,676,566.
 McClellan, William R.; and Stiles, Alvin B., 3,678,139.
 McDonald, John William, 3,647,733.
 McDonald, John William, 3,704,157.
 McDonald, John William, 3,707,393.
 McGinnis, Philip Roswell; and O'Brien, Gerald Joseph, 3,690,465.
 McHale, John J., 3,682,863.
 McKay, Jerry Bruce, 3,691,749.
 McNamara, James Francis; and Turner, Richard Ellis, 3,702,658.
 Meadows, Geoffrey W., 3,647,401.
 Middleton, William J., 3,678,117.
 Middleton, William J., 3,683,009.
 Middleton, William J., 3,690,862.
 Milgram, Alvin A., 3,679,439.
 Milgram, Alvin A., 3,684,569.
 Mitchell, William D.; and Soboczenski, Edward J., 3,682,618.
 Moore, Earl Phillip, 3,686,336.
 Moores, Mead S., 3,632,289.
 Morgan, Paul W., 3,637,606.
 Morrison, James S., 3,647,688.

Moulds, Gordon M., 3,695,992.
Nacci, George Raymond, 3,689,934.
Nacci, George Raymond; and Toole, Richard Charles, 3,698,005.
Nadler, Martin L., 3,673,056.
Nersasian, Arthur, 3,645,991.
O'Connor, Brian R., 3,636,054.
O'Connor, Brian Russ, 3,637,749.
Oji, Seiti, 3,653,134.
Oken, Aaron, 3,649,307.
Osborn, Robert O., 3,649,405.
Ott, Reuben C., 3,690,825.
Otterbach, Dieter H.; and Porter, John W., 3,660,477.
Otterstedt, Jan-Erik A.; and Pater, Richard, 3,660,404.
Otterstedt, Jan-Erik Anders; and Pater, Richard, 3,637,693.
Overman, Joseph De Witt, 3,655,390.
Owens, Daniel Kenyon, 3,639,324.
Owens, Daniel Kenyon, 3,663,275.
Palmer, Alan B., 3,667,099.
Parker, Fred W., 3,637,546.
Parker, Fred W., 3,657,001.
Parker, Fred W., 3,674,734.
Parker, Murray Borton, 3,634,247.
Parrish, Robert Guy, 3,637,458.
Parshall, George W., 3,657,368.
Parshall, George William, 3,646,130.
Parshall, George William, 3,657,292.
Pater, Richard, 3,655,664.
Patton, Wilbur L., 3,692,182.
Paulsen, Duane Owen, 3,632,744.
Pedersen, Charles John, 3,686,225.
Pedersen, Charles John, 3,687,978.
Perkins, Gilbert T., 3,636,030.
Perry, Robert Bruce, 3,656,280.
Petersen, Robert E. A., 3,637,616.
Petersen, Robert E. A., 3,691,142.
Peterson, Marvin L., 3,635,835.
Peterson, Marvin L., 3,681,215.
Pikl, Josef, 3,707,563.
Pinkney, Paul S., 3,637,559.
Pohl, Raymond Joseph, 3,707,533.
Porter, Verleone Henry, 3,704,285.
Price, Oscar La Rue, 3,633,255.
Prichard, William W., 3,632,643.
Prichard, William W., 3,681,449.
Prosser, Robert M.; and Thomas, Nelson A., 3,687,699.
Pye, Donald George, 3,687,726.
Quarles, Richard W., Jr., 3,694,499.
Randolph, Michael J., 3,676,476.
Rapisarda, Carmelo, 3,672,800.
Rapp, Theodore Clyde, 3,668,163.
Raynolds, Stuart, 3,645,990.
Reese, Cecil Everett, 3,681,910.
Rennolds, Philip J., 3,690,302.
Resnick, Paul Raphael, 3,692,843.
Rettig, Thomas Albert, 3,668,093.
Rick, Christian E., 3,639,100.
Ripka, William C., 3,634,466.
Ripka, William Charles, 3,641,006.
Rogers, Fulton Floyd, Jr., 3,632,493.
Rogers, Fulton Floyd, Jr., 3,684,642.
Rondestedt, Christian S., Jr., 3,668,247.
Rondestedt, Christian S., Jr., 3,681,451.
Rondestedt, Christian S., Jr., 3,681,452.
Rondestedt, Christian S., Jr., 3,681,453.
Rondestedt, Christian S., Jr., 3,681,454.
Rondestedt, Christian S., Jr., 3,655,732.
Rosenlund, Iver T., 3,633,368.
Ross, John M.; and Stryker, Harvey I., 3,684,425.
Ross, Wilbur Norbert, 3,662,056.
Rushmere, John D., 3,697,586.
Rushmere, John Derek, 3,647,388.
Rushmere, John Derek, 3,667,907.
Sands, Seymour, 3,676,280.
Sarafidis, Christos, 3,647,901.
Sauer, Robert J., 3,682,889.
Schlatter, Rudolph; and Adams, Charles D., 3,637,733.
Schmidt, Paul Gordon, 3,675,875.
Schotte, William, 3,649,534.
Schreyer, Ralph C., 3,646,223.
Scribner, Richard M., 3,673,179.
Scribner, Richard M., 3,681,338.
Selby, Richard N.; and Williams, Donald M., 3,705,124.
Self, James M., 3,668,168.
Self, James M., 3,674,526.
Setterquist, Robert Alton, 3,661,854.
Settlage, Paul Herman; and Thornton, Roger Lea, 3,701,745.
Severance, William A. N., 3,688,110.
Shannon, Robert D., 3,663,181.
Sherif, Fawzy G., 3,634,555.
Sherif, Fawzy G., 3,644,516.

Short, Oliver A., 3,649,567.
Short, Oliver A., 3,667,935.
Short, Oliver A., 3,668,028.
Short, Oliver Alton, 3,663,241.
Short, Oliver Alton, 3,679,606.
Sieja, James B., 3,661,875.
Simms, John A., 3,673,275.
Sipos, Donald J.; Steigerwald, Robert F.; and Whitcomb, Newell E., 3,672,876.
Slockett, Robert Donald, 3,686,276.
Smedberg, George Elmer, 3,684,600.
Smeltz, Kenneth C., 3,639,438.
Smith, Robert D.; and Herron, Ronald L., 3,660,192.
Smith, Shaler G., Jr., 3,649,596.
Snow, Austin Matthew, Jr., 3,651,037.
Snow, Austin Matthew, Jr., 3,651,038.
Sonsnowicz, Edward J.; and Willis, Frank M., 3,638,754.
Sowards, Donald M., 3,666,412.
Sprauer, Jerome W., 3,637,550.
Sprauer, Jerome W., 3,637,551.
Stahl, Roland E., 3,645,948.
Stalter, Neil J., 3,687,627.
Starkweather, Howard W., Jr., 3,651,196.
Sterling, John Deo, Jr., 3,646,112.
Stiles, Alvin B., 3,637,528.
Stiles, Alvin B., 3,645,915.
Stiles, Alvin B., 3,658,724.
Strilko, Peter S., 3,666,466.
Strilko, Peter S., 3,697,280.
Strohmaier, Alfred J., 3,646,747.
Strolle, Clifford H., 3,655,604.
Strolle, Clifford Hugh, 3,634,353.
Strolle, Clifford Hugh, 3,644,260.
Strolle, Clifford Hugh, 3,644,261.
Strolle, Clifford Hugh, 3,674,545.
Su, Aaron Chung Liong, 3,640,898.
Su, George Chung-Chi, 3,639,343.
Sullivan, David Lee, 3,655,795.
Sullivan, Robert H., 3,681,444.
Sullivan, Robert H., 3,700,731.
Summers, John C., 3,657,307.
Swalheim, Donald Arthur, 3,658,664.
Swayne, Kenneth G.; and Dragun, Henry L., 3,663,670.
Tandy, Thomas King, Jr., 3,645,989.
Tarney, Robert Edward; and Verbanc, John J., 3,657,203.
Taylor, Earl Richard, Jr., 3,697,567.
Taylor, Kirman, 3,684,572.
Taylor, Robert Edward, 3,705,225.
Teti, John, 3,696,058.
Thompson, Darrell R., 3,644,255.
Thompson, Robert G., 3,635,902.
Tichenor, Robert L., 3,655,420.
Tinder, Edgar Karl, 3,669,726.
Tober, Frank William, 3,660,281.
Tobey, Richard S., 3,650,971.
Trofimenko, Swiatoslaw, 3,681,381.
Usala, Hugo R., 3,705,076.
Valiavedan, George Devasia, 3,644,270.
Van Dyk, John W., 3,684,553.
Van Stappen, Albert Louis; and Schwarz, Karl, 3,672,902.
Van Stappen, Albert Louis; Schwarz, Karl; and Weber, Hans (said Van Stappen and said Schwarz assor. to), 3,707,376.
Vasta, Joseph A., 3,655,610.
Vasta, Joseph A., 3,663,598.
Vasta, Joseph A., 3,673,148.
Vasta, Joseph A., 3,679,642.
Vasta, Joseph A., 3,687,879.
Vaughan, Lawrence G., 3,657,296.
Vaughan, Lawrence G., 3,661,959.
Vogl, Otto F., 3,668,184.
Vogl, Otto F., 3,707,524.
Von Schrititz, Don Morris, 3,651,146.
Walker, Richard L., 3,639,405.
Walle, Leonard A., 3,671,293.
Walus, Aloysius N., 3,651,005.
Walus, Aloysius N., 3,676,385.
Walus, Aloysius N., 3,691,126.
Walus, Aloysius N., 3,707,516.
Waring, Robert K., Jr., 3,704,937.
Watts, James Harry, 3,666,167.
Webster, Owen Wright, 3,666,787.
Weeks, Robert Hugh, 3,696,156.
Wehner, John Francis, 3,681,306.
Weidman, Verne Wesley; and Yates, Paul C., 3,689,245.
Weimar, Richard David, Jr., 3,660,151.
Weinmayr, Viktor, 3,639,429.
Wellings, Ian, 3,644,379.
Wellings, Ian, 3,681,351.
Werner, Alfred John, 3,676,167.
Werner, Ervin R., Jr., 3,692,558.
Werner, Ervin R., Jr., 3,694,392.

Werner, Ervin R., Jr., 3,697,309.
West, William A., 3,686,009.
White, Jesse Oris; and Davis, Darwin Darrell, 3,637,832.
Whitfield, Harold Barnard, Jr., 3,707,431.
Wiggill, John B., 3,649,335.
Willcox, Oswin Burr, 3,656,921.
Williams, Joseph Blair, 3,686,067.
Williams, Meurig W., 3,647,355.
Wilson, Donald Richard, 3,702,838.
Windley, William Thomas, 3,683,160.
Witsiepe, William K., 3,651,014.
Witterholt, Vincent G.; and Dalgarn, John W., 3,663,525.
Wolinski, Leon Edward; and Harris, Roland G., 3,649,437.
Wood, Everitt Franklin, 3,681,161.
Woodell, Rudolph, 3,655,498.
Wray, Rhodes Ebeling, 3,701,490.
Yates, Paul C., 3,634,286.
Yates, Paul C., 3,637,775.
Yates, Paul C., 3,649,320.
Yates, Paul C., 3,650,783.
Yates, Paul C., 3,655,578.
Yates, Paul C., 3,657,179.
Yates, Paul C., 3,666,514.
Yates, Paul C., 3,676,161.
Yates, Paul C., 3,676,362.
Yates, Paul C., 3,689,430.
Yau, Wallace W., 3,683,678.
Yngve, Paul Wesley, 3,638,291.
Youker, Mortimer A., 3,639,301.
Zimmerman, Joseph, 3,655,630.
Du Pont de Nemours, E. I., and Company, mesne: See—
Cothran, Samuel Bynum; and Henry, Colin Alexander, 3,685,644.
Cristol, Stanley J.; and Lee, George A., 3,674,665.
Foley, Edward F., Jr.; Tsai, Shan-Pu; and Zatorsky, William A., 3,704,156.
Sloan, Walter John, 3,656,893.
Du Pont, Michael H.: See—
Lang, Paul Wentworth, 3,684,346.
Lang, Paul Wentworth, 3,703,135.
Du Pont of Canada Limited: See—
Dyer, Gerald B.; and Szpak, Edwin, 3,666,151.
Elston, Clayton Trevor, 3,645,992.
Fairfield, Hugh J., 3,653,094.
Fairfield, Hugh J., 3,676,991.
Pederson, Ronald E., 3,692,613.
Du Pont of Canada Limited, mesne: See—
Pope, Kenneth W., 3,646,715.
Du Pont, Paul R., to Thermoplastic Processes Inc. Fluorescent lamp protection apparatus. 3,673,401, 6-27-72, Cl. 240-11.400.
Du Rocher, Gideon A., to Essex International, Inc. Current control apparatus and methods of manufacture. 3,648,002, 3-7-72, Cl. 200-166.
Du Rocher, Gideon A.; and Miller, Ellsworth S., to Essex International, Inc. Connector for electrical terminals. 3,701,965, 10-31-72, Cl. 339-60.00m.
Du Rocher, Gideon A., to Essex International, Inc. Thermally sensitive circuit control apparatus. 3,707,694, 12-26-72, Cl. 337-139.000.
Du Rose, Arthur H.; and Stern, Robert L., to Kewanee Oil Company. Alkaline nickel plating solutions. 3,634,210, 1-11-72, Cl. 204-49.
Du Ross, James W.; and Lensack, Gabriel P., to Atlas Chemical Industries, Inc. Surfactant composition for frozen confections. 3,647,477, 3-7-72, Cl. 99-136.
Dual Gebruder Steidinger: See—
Laue, Eckhard, 3,666,896.
Laue, Eckhard, 3,701,534.
Dual Manufacturing and Engineering, Incorporated: See—
Re, Frank M., 3,637,255.
Dual-Lite Company: See—
Sieron, Richard L., 3,684,891.
Sieron, Richard L., 3,696,362.
Duba, Erwin; and Fischer, Conrad, to Linke-Hofmann-Busch Wagon-Fahrzeug-Maschinen GmbH. Movable stair mounting arrangement for vehicles. 3,672,311, 6-27-72, Cl. 105-447.000.
Dubach, Paul. Process for permanently crimping yarn and the like. 3,678,142, 7-18-72, Cl. 264-25.
Dubble, Roger D.: See—
Hall, Thomas H., Jr.; Cottrill, Jon R.; and Dubble, Roger D., 3,658,304.
Dube, Milford J.; and Semrow, Robert A., to Ney, J. M., Company, The. Slip ring assembly. 3,686,514, 8-22-72, Cl. 310-232.000.
Dube, Victor J.; Thoma, Paul E.; and Kao, Jao Shiun, to Johnson Service Company. Bi-material condition sensing means. 3,665,765, 5-30-72, Cl. 73-337.
Dubeck, Michael; and Brackenridge, David R., to Ethyl Corporation. Olefin dimerization. 3,647,883, 3-7-72, Cl. 260-683.15.
Dubeck, Michael; and Shubkin, Ronald L., to Ethyl Corporation. Preparation of carboxylic acids. 3,678,083, 7-18-72, Cl. 260-413.
Duben, Franklin T., to Honeywell Information Systems Inc. Memory cell with voltage limiting at transistor control terminals. 3,703,711, 11-21-72, Cl. 340-173.00f.
Dubernet, Robert; and Sabatie, Michele, to Societe Nationale Industrielle Aerospatiale. Multiconductor stranded remote-control cable. 3,676,576, 7-11-72, Cl. 174-113.00r.
Dubey, William B., to Alford Industries Incorporated. Paperboard container. 3,638,850, 2-1-72, Cl. 229-33.
Dubini, Mario; and Montino, Franco, to Montecatini Edison S.p.A. Process for preparing methyl hexadienoates. 3,661,979, 5-9-72, Cl. 260-486.
Dubinsky, Rudolf Solomonovich: See—
Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexander; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexander Mikailovich; Shevisov, Anatoly Ivanovich; Grinspon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toschev, Alexander Mikhaivich, 3,687,188.
Dubinsky, Terence N., to Case, J. I., Company. Hydrostatic bearing. 3,671,155, 6-20-72, Cl. 418-73.
Dubinsky, Vladimir Alexandrovich; and Mats, Veniamin Mikhailevich. Storage premises for storing piece articles. 3,633,769, 1-11-72, Cl. 214-16.4.
Dubner, Ben B. Automatic retracting hypodermic syringe. 3,669,111, 6-13-72, Cl. 128-218.00p.
Dubner, Harvey, to Baxter Corporation, The, mesne. Method and apparatus for producing jacquard cards. 3,671,944, 6-20-72, Cl. 340-172.500.
Dubois, Andre, to Compagnie Generale d'Electricite. Magneto-optically controlled ionization tube. 3,633,067, 1-4-72, Cl. 315-149.
DuBois, Bert, to Tenneco Inc. Acoustic conduit with wrinkle section. 3,655,010, 4-11-72, Cl. 181-36.
Dubois, Claude J.: See—
Demarez, Rene; and Dubois, Claude J., 3,692,365.
Dubois, Ernest Marie Rene: See—
Mourlon, Jean-Claude; and Dubois, Ernest Marie Rene, 3,635,342.
Dubois, Gerald. Timer. 3,688,491, 9-5-72, Cl. 58-74.000.
Dubois, Gerald, to Mingard, Marcel. Timepiece having oscillating rotating indicator. 3,696,609, 10-10-72, Cl. 58-125.00r.
Dubois, Joseph W., to North American Rockwell Corporation. Yarn piecing device. 3,691,744, 9-19-72, Cl. 57-34.00r.
Dubois, Michel A. Machine for digging underground galleries. 3,663,054, 5-16-72, Cl. 299-18.
Dubois, Robert: See—
Westerkamp, Hugo; and Dubois, Robert, 3,641,284.
Dubois, Robert L.: See—
Tavernier, Georges L. P.; and Dubois, Robert L., 3,693,779.
Dubravec, Vladimir, to U.S. Philips Corporation. Permanent magnetic focusing device for multi-cavity klystrons. 3,665,242, 5-23-72, Cl. 315-5.35.
Dubreuil, Philip B.; Bartok, Stephen; and Crawford, William R., to Mattel, Inc. Wire bending device. 3,672,408, 6-27-72, Cl. 140-102.000.
Dubsek, Frantisek; Tones, Vaclav; Nigrin, Mojmir; and Sobotka, Jiri, to Prvni brnenska Strojirna Zavody Klementa Gottwalda, narodni podnik. Storage tank for liquid metal. 3,635,286, 1-18-72, Cl. 165-108.
Dubuc, Rene A.; White, Sheldon S.; and Willoughby, Joseph A., to Texas Instruments, Incorporated. Electrical contact having a head sink layer. 3,686,457, 8-22-72, Cl. 200-166.00c.
DuBuis, Edwin O.; and Bayer, Carl, Jr., to Mohawk Data Sciences Corporation. Light conducting member for photoelectric code sensor. 3,643,103, 2-15-72, Cl. 250-227.
Dubuit, Louis Gilbert. Automatic machine for silk-screen printing on filled bottles of flexible material with flat faces. 3,659,522, 5-2-72, Cl. 101-35.
Dubuque Awning & Tent Company: See—
Frommelt, Cyril P.; and Frommelt, Sylvan J., 3,638,667.
Frommelt, Cyril P.; and Frommelt, Sylvan J., 3,653,173.
Frommelt, Cyril P.; and Frommelt, Sylvan J., 3,699,733.
Duc, Xuong Nguyen; and Bonnamy, Jean Marc, to Institut Francais du Petrole des Carburants et Lubrifiants. Device for laying submarine cables and pipes in areas covered with ice. 3,681,927, 8-8-72, Cl. 61-72.100.
Ducamus, Jean Matital; and Fernandez, Claude-Jane, to U.S. Philips Corporation. Four-phase delay element. 3,676,709, 7-11-72, Cl. 307-279.000.
Ducasse, Viateur. Excess smoke eliminating system for boilers. 3,701,622, 10-31-72, Cl. 431-76.000.
Duchane, David V., to Kimberly-Clark Corporation. Flushable wrapper for absorbent pads. 3,654,928, 4-11-72, Cl. 128-290.
Duchane, David V., to Kimberly-Clark Corporation. Method for fabricating improved flushable wrappers for absorbent pads and product obtained thereby. 3,689,314, 9-5-72, Cl. 117-140.00a.
Duchane, David V., to Kimberly-Clark Corporation. Stabilized binder for water-flushable non-woven webs. 3,692,725, 9-19-72, Cl. 260-29.6bm.

- Ducharme, Joseph: *See*—
Snider, Roy C., Jr., 3,649,040.
- Duchateau, Georges Francois; and Vanherwegen, Ferdinand Joseph, to Raffinerie Tirlimontoise. Apparatus for extracting with a liquid, products which are part of solids. 3,660,042, 5-2-72, Cl. 23-269.
- Duchene, Joseph R., to Allied Research Products, Inc. Electrodeposition of nickel. 3,697,392, 10-10-72, Cl. 204-49,000.
- Duchesneau, Jerome G.; and Schwartz, Robert A., to United Aircraft Corporation. Proportional pressure difference actuator. 3,668,349, 6-6-72, Cl. 200-82,00r.
- Duchess Mfg. Corporation: *See*—
Pompeo, Louis, 3,682,603.
Pompeo, Louis, 3,690,064.
- Duchmann, Charles A.; and Miram, George V., to Varian Associates. Apparatus for attaching a dispenser cathode to a support. 3,636,400, 1-18-72, Cl. 313-346.
- Duchmann, George W.: *See*—
Kerfoot, Oliver C.; and Duchmann, George W., 3,703,559.
- Duchrau, Herbert: *See*—
Schlor, Egon; and Duchrau, Herbert, 3,687,159.
- Duck, Edward William; Farmer, John Howard; and Ridgewell, Brian John, to International Synthetic Rubber Company Limited. The Hydrocarbon-soluble rubbery copolymers of α -olefins. 3,644,309, 2-22-72, Cl. 260-80,78.
- Duck, Edward William; Ridgewell, Brian John; and Locke, John Michael, to International Synthetic Rubber Company Limited. The Co- and terpolymers of alpha olefins with cyclo propane derivatives. 3,676,409, 7-11-72, Cl. 260-80,780.
- Duck, Edward William; Locke, John Michael; and Amass, Allan John, to International Synthetic Rubber Company Limited. The Graft copolymerisation process. 3,703,566, 11-21-72, Cl. 260-878,00r.
- Duck, Hertha: *See*—
Duck, Wolfgang, 3,668,320.
Duck, Wolfgang, 3,684,973.
- Duck, Sherman W., to Bell & Howell Company. Magnetic deformation recording. 3,683,405, 8-8-72, Cl. 346-74,0tp.
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- Duckett, John W.; Brooks, Edward A.; and Reynolds, Clarke, to American Molded Products, Ltd. Self-righting road delineator. 3,705,566, 12-12-72, Cl. 116-63,00p.
- Duckhinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosifovich; Anikanov, Nikolai Ivanovich; and Grachev, Leonid Palovich, to Izdatelstvo "Izvestia". Apparatus for wrapping articles with wrapping material. 683,586, 8-15-72, Cl. 53-228,000.
- Ducksbury, Alfred N.; and Telford, Bruce C., to Eastman Kodak Company. Method and cell for repetitive high precision pH and like measurements. 3,681,205, 8-1-72, Cl. 204-1,00t.
- Duckwall, Frank E.; and Labelle, Edward J., to Textron, Inc. Ophthalmic lens series. 3,645,610, 2-29-72, Cl. 351-159.
- Duckwall, Paul, III: *See*—
Stichweh, James H.; Hornung, Stephen A.; and Duckwall, Paul, III, 3,645,361.
Stichweh, James H.; Hornung, Stephen A.; and Duckwall, Paul, III, 3,665,223.
- Duclaux, Daniel; Givry, Jean-Pierre; and Pointud, Jacky, 50% to Compagnie Pechiney et Electrification and 50% to Charpente. Process and apparatus for supplying alumina. 3,679,555, 7-25-72, Cl. 204-67,000.
- Ducloux, Maurice: *See*—
Balme, Maurice; and Ducloux, Maurice, 3,639,340.
Balme, Maurice; and Ducloux, Maurice, 3,660,337.
- Ducloux, Maurice; and Gruffaz, Max, to Rhone-Poulenc S.A. Polymers prepared from phenols, aromatic diamines and aromatic dianhydrides. 3,634,324, 1-11-72, Cl. 260-47.
- Duconge, Claude: *See*—
Magneville, Pierre; and Duconge, Claude, 3,656,655.
- Ducote, Nolan J. Retractable mud flaps for dump trucks and trailers. 3,640,577, 2-8-72, Cl. 298-1.
- Ducousset, Robert Eugene Raymond; Larmurier, Claude Fernand Emile; and Rolland, Jean-Noel Gaston Andre, to Compagnie des Compteurs. Fluid impact deflector amplifier. 3,631,875, 1-4-72, Cl. 137-81,5.
- Ducrest, Malquin S.; and Ducrest, Stephen W. Mop having coiled cleaning elements. 3,663,981, 5-23-72, Cl. 15-225.
- Ducret, Stephen W.: *See*—
Ducrest, Malquin S.; and Ducrest, Stephen W., 3,663,981.
- Ducret, Jacques: *See*—
Demosay, Daniel; Pillon, Daniel; and Ducret, Jacques, 3,669,975.
Pillon, Daniel; and Ducret, Jacques, 3,702,332.
- Ducret, Jacques; Pillon, Daniel; and Demozay, Daniel, to PEPRO-Societe pour le Developpement et la Vente de Specialties Chimiques. Method for destroying nematode. 3,691,282, 9-12-72, Cl. 424-200,000.
- Dueroco, Roger Eugene; and Chevalier, Michel Henri, to Pneumatiques Caoutchouc Manufacture et Plastiques Kleber-Colombes. Transportable tanks. 3,660,853, 5-9-72, Cl. 4-172,19.
- Duerot, Alain Jean Edmond; Poulain, Jacques Constant; Pavon, Miguel Sancho; and Turpin, Michel Louis, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation and Association pour la Recherche et le Developpement des Methodes et Processus Industriels A.R.M.I.N.E.S. Treatment of articles having metallic core with boron coating. 3,694,333, 9-26-72, Cl. 204-140,000.
- Duda, Vladimir Nikolaevich: *See*—
Shtin, Lev Mikhailovich; Grebnev, Nikolai Feodosovich; Satovskaya, Ljudmila Sergeevna; Rasseikin, Mikhail Grigorievich; Khirdzhiev, Sergei Grigorievich; Perevozchikov, Evgeny Titovich; Zagulina, Sofia Stepanovna; Duda, Vladimir Nikolaevich; and Karasev, Mihail Andreevich, 3,664,168.
- Duda, Werner; and Carter, Robert. Tape measure and rule. 3,686,767, 8-29-72, Cl. 33-138,000.
- Dudas, Attila, to Lee, Raymond, Organization, Inc., The. Electronic guitar having plural output channels, one of which simulates an organ. 3,673,304, 6-27-72, Cl. 84-1,010.
- Dudash, James J.: *See*—
Rice, Hal H.; and Dudash, James J., 3,646,993.
- Duddey, James E., to Goodyear Tire & Rubber Company, The. Cationic dyeable polyester modified with alkoxy benzene sulfonic acids. 3,664,984, 5-23-72, Cl. 260-22.
- Duddey, Werner: *See*—
Mankau, Werner; and Duddey, Werner, 3,658,165.
- Duddy, James J. Mechanic's light. 3,696,239, 10-3-72, Cl. 240-52,300.
- Duddy, Joseph C., to ESB Incorporated. Method for processing pasted lead acid battery plates. 3,702,266, 11-7-72, Cl. 136-33,000.
- Dudek, Elmer: *See*—
Hutchinson, Elmer R., 3,633,275.
- Dudek, Thomas J.: *See*—
Shim, Benjamin K. C.; Blenner, Donald R.; Dudek, Thomas J.; and Hafner, William F., 3,634,299.
- Duden, Emanuel Hubert; and Cappuyns, Joseph Marie, to Gevaert-Agfa N.V. Rotary perforating apparatus. 3,661,044, 5-9-72, Cl. 83-100.
- Dudevoir, Wilfried G.: *See*—
Johnson, Philip M.; Dudevoir, Wilfried G.; and Northrup, Richard M., 3,704,070.
- Dudka, Viktor Vasilievich: *See*—
Portyanko, Andrei Ivanovich; Lastovenko, Valentin Andreevich; Dudka, Viktor Vasilievich; Rodenko, Fedor Leontievich; Onischenko, Grigory Ivanovich; Vatkin, Adolf Semenovitch; Pokusa, Alexei Alexandrovich; and Ruzin, Ivan Mikhailovich, 3,654,997.
- Tatiansko, Nikolai Vasilievich; Tsybmal, Alexandr Gavrilovich; Stetsenko, Vladimir Vasilievich; Isikov, Sergei Alexandrovich; Rodenko, Fedor Leontievich; Betcher, Alexandr Samuilovich; Shamrai, Petr Dmitrievich; Dulya, Mikhail Afanasievich; Dudka, Viktor Vasilievich; Klimchuk, Ivan Petrovich; and Dolgov, Anatoly Mikhailovich, 3,664,431.
- Dudko, Daniil Andreevich: *See*—
Maximovich, Boleslav Ivanovich; Dudko, Daniil Andreevich; Agafonov, Nikolai Georgievich; Maximov, Igor Petrovich; Andreev, Vadim Grigorievich; Lepilov, Nikolai Yakovlevich; Svinov, Alexei Kapitonovich; Slonimsky, Alexandr Borisovich; Volk, Boris Zakharovich; Gubin, Alexandr Ivanovich; and Katsman, Berta Osipovna, 3,677,330.
- Dudkowski, Stanley J.: *See*—
Koepp, Ronald L.; and Dudkowski, Stanley J., 3,645,695.
- Dudler, Hans A. Recording sphygmomanometer. 3,662,394, 5-9-72, Cl. 346-21.
- Dudley, Don J.: *See*—
Morchand, Charles A.; and Dudley, Don J., 3,637,940.
- Dudley, James M. Hanger for sheet material. 3,675,782, 7-11-72, Cl. 211-50,000.
- Dudley, John S., to Dennison Manufacturing Company. Inking pad assembly. 3,646,907, 3-7-72, Cl. 118-264.
- Dudley, John T., to GKN Sankey Limited. Motor vehicles. 3,650,557, 3-21-72, Cl. 296-28.
- Dudley, Kenneth W.; and Mac Master, George H., to Raytheon Company. Crossed field microwave device. 3,646,388, 2-29-72, Cl. 315-3,5.
- Dudley, Leslie Peter, to Dudley Optical Laboratories, Inc. Methods of printing stereoscopic integral photograph from pseudoscopic original. 3,671,122, 6-20-72, Cl. 355-22,000.
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- Dudley Optical Laboratories, Inc.: *See*—
Dudley, Leslie Peter, 3,671,122.
Dudley, Leslie Peter, 3,675,553.
Dudley, Leslie Peter, 3,683,773.

- Dudley, Robert H.: *See*—
Larson, Charles R.; and Dudley, Robert H., 3,656,620.
Larson, Charles R.; and Dudley, Robert H., 3,679,051.
- Dudley, William A.: *See*—
Lamb, Charles Paul; Dudley, William A.; Kingsley, George S.; and De Moss, Edward E., 3,659,961.
- Dudley, Wray E.: *See*—
Fox, Gerald B.; Dudley, Wray E.; and Athey, Stuart E., 3,706,317.
- Dudouyt, Jean Paul Antoine. Sports vehicle steered by inclination of driver's body. 3,666,035, 5-30-72, Cl. 180-25,00a.
- Dudrow, Frank A.: *See*—
Lineberry, Dewey D.; and Dudrow, Frank A., 3,693,322.
- Duduk, Alexander. Radial, bias ply tire. 3,672,423, 6-27-72, Cl. 152-356,000.
- Dudyeh, Daniel: *See*—
Ludwigsen, Orville I.; and Dudyeh, Daniel, 3,705,016.
- Duecker, Heyman C.; and Glemza, Rimantas. Process for the preparation of fine-sized aluminas. 3,672,831, 6-27-72, Cl. 23-143,000.
- Duecker, Heyman Clarke: *See*—
Rundell, Clark Ace; Duecker, Heyman Clarke; and McDaniel, Carl Vance, 3,635,200.
- Dueker, James E., to McDonnell Douglas Corporation. Video tracking, lateral photoeffect seeking electro-optic detector. 3,693,013, 9-19-72, Cl. 250-203,00r.
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Cann, Peter L.; and Duell, Richard J., 3,698,833.
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Ackermann, Franz; Duennenberger, Max; and Siegrist, Adolf Emil, 3,649,623.
Biland, Hans Rudolf; and Duennenberger, Max, 3,676,494.
Guglielmetti, Leonardo; and Duennenberger, Max, 3,696,193.
Luethi, Christian; Biland, Hans Rudolf; and Duennenberger, Max, 3,639,249.
Luethi, Christian; Duennenberger, Max; and Biland, Hans Rudolf, 3,661,606.
Luethi, Christian; Biland, Hans-Rudolf; and Duennenberger, Max, 3,683,020.
Schellenbaum, Max; and Duennenberger, Max, 3,646,199.
Schellenbaum, Max; Duennenberger, Max; and Casagrande, Fulvio, 3,689,550.
Schellenbaum, Max; and Duennenberger, Max, 3,706,834.
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Perlick, Reinhold; and Duerhagen, Klaus, 3,631,695.
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Martin, Henry; Duerr, Dieter; and Hitz, Rudolf, 3,660,484.
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Yost, Robert L., 3,647,308.
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Jelinek, Jerry G.; Duesenberry, Gary L.; and McCuiston, Thomas J., 3,656,769.
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Carossi, Jean-Claude; Dufayet, Jean-Pierre; and Dujardin, Roger, 3,697,868.
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Franke, Raymond C.; and Dufer, William B., 3,696,356.
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Longo, John F.; and Duff, Joseph H., 3,705,477.
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Proft, Anthony G., 3,672,637.
Withrow, James Bruce; and Gardner, Earl William, 3,704,765.
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Chiron, Bernard; and Duffau, Louis, 3,681,716.
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Coleman, William R.; and Duffey, Thomas E., 3,670,078.
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Fast, Clarence R.; Rix, Frederick H.; and Duffield, Ernest L., Jr., 3,681,240.
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Apgar, Waldo Ditmar; D'Asaro, Lucian Arthur; Dixon, Richard Wayne; Dufft, William Henry; Elder, Harry Eugene; and Fraley, Philip Edward, 3,694,902.
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Smith, Ernest L.; Duffy, Arthur R.; and Lyman, Eugene S., 3,669,816.
- Duffy, Daniel P., to Schultz, Robert S. Child resistant safety closure and container. 3,684,116, 8-15-72, Cl. 215-9,000.
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Augl, Joseph M.; and Duffy, James V., 3,654,226.
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Siedband, Melvin P.; Duffy, Philip A., Jr.; and James, Jack L., 3,675,020.
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Buzzi, Umberto; Dufresne, Jacques Pierre; and Farfaletti-Casali, Flaviano, 3,677,328.
- Dufton, John Peter: *See—*
Panter, Robert B.; Dufton, John Peter; Duthie, Robert W.; and Verbaas, George, 3,678,197.
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Brown, William E., Jr.; and Dufton, William C., 3,682,209.
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Habashi, Fathi; Dugdale, Raymond; and Holderreed, Francis L., 3,650,679.
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Babb, Raymond E., 3,669,263.
- Duggan, Richard E.; Sandberg, Bernard L.; Reisner, Manfred; and Gascoigne, Allan J., to Cat Products, Inc. Alarm with trundle switch. 3,644,921, 2-22-72, Cl. 340-283.
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Noakes, Thomas E.; Konen, Thomas P.; Kokalari, Albert; and Duggan, Robert B., 3,696,611.
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Belcher, Richmond D.; Duggan, Robert J.; Ellis, George R.; Esslinger, Robert H.; Goodyear, W. Frederick; Marshall, Joseph C.; and Masone, Thomas R., 3,656,148.
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Cooke, George A.; Dugger, Harry A.; and Houlihan, William J., 3,657,268.
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- Duguay, Michel Albert, to Bell Telephone Laboratories, Incorporated. Direct display of light images with picosecond resolution. 3,669,541, 6-13-72, Cl. 356-5.000.
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Potts, Vinson S.; and Duham, Frederick W., 3,683,834.
- Duhamel, Ronald E.: *See—*
Fertise, Louis; and Duhamel, Ronald E., 3,690,245.
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Lieberman, Hillel; Duharte-Francia, Carlos A.; and Henderson, John W., 3,697,439.
- Duhault, Jacques: *See—*
Bereg, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Duhault, Jacques, 3,683,008.
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Cosyns, Jean; and Duhaut, Pierre, 3,661,798.
- Duhl, David N., to United Aircraft Corporation. Enhancement of transverse properties of directionally solidified superalloys. 3,700,433, 10-24-72, Cl. 148-32.500.
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- Duhring, Wolfgang: *See—*
Rohner, Dieter; and Duhring, Wolfgang, 3,679,808.
- Duisburger Kupferhütte: *See—*
Dobbener, Raymond; and De Haas, Hans, 3,685,985.
- Dujardin, Roger: *See—*
Carossi, Jean-Claude; Dufayet, Jean-Pierre; and Dujardin, Roger, 3,697,868.
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Giffen, James W.; Duke, David A.; Dumbaugh, William H., Jr.; Flannery, James E.; MacDowell, John F.; and Megles, John E., 3,673,049.
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Keith, Jack G., 3,673,227.
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Coffey, Gerald P.; Ball, Lawrence E.; and Duke, June T., 3,683,052.
- Duke, Keith A.: *See—*
Bouricius, Willard G.; Carter, William C.; Duke, Keith A.; Roth, John P.; and Schneider, Peter R., 3,665,174.
- Carter, William C.; Duke, Keith A.; and Jessep, Donald C., Jr., 3,648,239.
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- Duke, Philip J.: *See—*
Helgeland, Walter; Lazott, James B.; Duke, Philip J.; Taggart, William J.; Geacox, George W.; and Brandsma, Abe, 3,645,784.
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Tosteson, Daniel C., 3,657,095.
- Dukert, Andrew A.; and Christofas, Alkis, to Pennwalt Corporation. Extrusion strip die for thermoplastic sheet. 3,680,997, 8-1-72, Cl. 425-381.000.
- Dukes, Clifford F.; and Scott, George B., to Celanese Coatings Company. Epoxide resins cured with amine-glycidyl ester adducts in admixture with a phenolic accelerator. 3,637,902, 1-25-72, Cl. 260-830.
- Dukes, Everett E., Jr.: *See—*
Hedin, Robert A.; and Dukes, Everett E., Jr., 3,673,569.
- Dukes, John N., to Hewlett-Packard Company. Temperature compensation of a laser interferometer. 3,674,371, 7-4-72, Cl. 356-106.000.
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- Dukes, John N., to Hewlett-Packard Company. D. C. motor circuit for rotating a polarizer and providing a detector synchronizer signal for a laser stabilizing system. 3,701,042, 10-24-72, Cl. 331-94.500.
- Dukes, John R., to Industrial Nucleonics Corporation. Non-shifting radiation source capsule. 3,655,984, 4-11-72, Cl. 250-106.
- Dukes, Michael: *See—*
Davies, George Edward; Dukes, Michael; and Johnston, Thomas Paterson, 3,655,896.
- Dukes, Michael, to Imperial Chemical Industries Limited. Certain S-triazolo 1,5-a pyrimidines. 3,689,488, 9-5-72, Cl. 260-256.40f.
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Lakiza, Rostislav Ivanovich; Soloviev, Petr Ivanovich; Dukov, Vasily Maximovich; and Baron, Grigory Rakhmievich, 3,662,991.
- Dulaney, Ernest N.: *See—*
Bergemann, Gerald T.; and Dulaney, Ernest N., 3,639,703.
- Dulaney, Thomas J. Panel mounting apparatus. 3,691,713, 9-19-72, Cl. 52-397.000.

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- Duling, Irl N.: *See—*
Stearns, Richard S.; Duling, Irl N.; and Gates, David S., 3,676,521.
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- Dull, Ernst Hermann: *See—*
Brune, Werner; Schwartz, Gunter; Dull, Ernst Hermann; and Polly, Edgar, 3,665,393.
- Dull, Helmut, to Bernhard Beyschlag Apparatebau G.m.b.H. Electric network and method of making same. 3,697,816, 10-10-72, Cl. 317-101.0cc.
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- Dulle, William J. Rotating bird perch. 3,678,901, 7-25-72, Cl. 119-26.000.
- Dullinger, Karl, to Kronseider, Hermann. Method and apparatus for foil wrapping bottle necks. 3,707,417, 12-26-72, Cl. 156-212.000.
- Dully, Floyd I.: *See—*
De Claire, James H.; Dully, Floyd I.; and Hull, Neil A., 3,653,711.
- Dulmage, Fred C., to Dow Chemical Company, The. Package including envelope with heat-shrunk band. 3,664,498, 5-23-72, Cl. 206-65.
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Dulhunty, Philip W., 3,644,660.
- Dulya, Mikhail Afanasievich: *See—*
Tatanko, Nikolai Vasilievich; Tsybmal, Alexandr Gavrilovich; Stetsenko, Vladimir Vasilievich; Isikov, Sergei Alexandrovich; Rodenko, Fedor Leontievich; Betcher, Alexandr Samuilovich; Shamrai, Petr Dmitrievich; Dulya, Mikhail Afanasievich; Dudka, Viktor Vasilievich; Klimchuk, Ivan Petrovich; and Dolgov, Anatoly Mikhailovich, 3,664,431.
- DUMAG OHG, Dr. Ludwig Kaluza & Co.: *See—*
Wiesenberger, Josef, 3,667,679.
- Dumais, Richard L.: *See—*
Arciprete, Genio R.; Brokow, Adrian P.; Dumais, Richard L.; and Stucchi, Richard F., 3,662,362.
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- Dumas, Christ J.: *See—*
Simovits, Stephen S.; and Dumas, Christ J., 3,636,412.
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- Dumas, Henry J., Jr.: *See—*
Raye, George W.; Dumas, Henry J., Jr.; and Duncan, Lloyd N., 3,664,397.
- Dumas, Hugh D. Pickup truck spare tire carrier. 3,650,424, 3-21-72, Cl. 214-454.
- Dumas, Victor: *See—*
Allard, Pierre; and Dumas, Victor, 3,687,776.
- Dumast, Michel; Rouzaud, Guy; and Thevenin, Luc, to Societe d'Instrumentation Schlumberger. Regulator-meter utilizing a beam of light for indication and regulation. 3,693,022, 9-19-72, Cl. 250-230.000.
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Giffen, James W.; Duke, David A.; Dumbaugh, William H., Jr.; Flannery, James E.; MacDowell, John F.; and Megles, John E., 3,673,049.
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- Dumire, Leo G.: *See—*
Nevin, John J.; and Dumire, Leo G., 3,685,147.
- Dumitrescu, Nicolaie: *See—*
Mogos, Ion; Muscel, Cormel I.; and Dumitrescu, Nicolaie, 3,648,694.
- Dumitrescu, Stelica: *See—*
Costa, Eugen; Ene, Lucian; Dumitrescu, Stelica; and Covaci, Ioan, 3,695,333.
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- Dumler, Henry: *See—*
Schindler, Ted; and Dumler, Henry, 3,693,194.
- Dummer, Richard S.: *See—*
Wellnitz, Jerry N.; and Dummer, Richard S., 3,702,391.
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Diedrich, Bernd; and Dummer, Wilhelm, 3,654,249.
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Fullmer, Roger W., 3,659,492.
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- Dunbar, Robert A., to Remvac System Corporation. Coded card and reader therefor. 3,699,311, 10-17-72, Cl. 235-61.11h.
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- Hess, Hugo J. A.; Milligan, James W.; and Friend, Harvey L., 3,638,116.
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Duncan, Alfred D., 3,697,074.
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Davis, Billy E.; and Dunegan, Ronald G., 3,682,198.
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Skahen, Don H., 3,687,468.
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Amos, Charles William; Johnson, Maynard Dale; and Dieckmann, John Jacob, 3,685,329.
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- Moreland, Colby D., 3,695,345.
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Schertz, Eugene P., 3,635,171.
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Durkee, Jackson L.; Beighley, Arthur F.; and Dunlap, Donald E., 3,659,633.
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Davis, Richard P.; and Dunlap, Philip A., 3,704,646.
- Dunlap, Robert K.: See—
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Bray, Horace A., 3,703,224.
- Brooks, Geoffrey N.; and Crompton, John L. F., 3,702,199.
- Dowell, Frederick S., 3,653,472.
- Harper, Samuel E., 3,690,294.
- Hirst, Archie John, 3,680,888.
- Mitchell, William Eric, 3,639,964.
- Mortimer, Frank R.; Brewster, Alan R.; and Bartram, Michael J., 3,700,075.
- Osborne, Denis A. N.; Haines, Robert C.; and Kilshaw, John A., 3,703,824.
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- Pope, George A.; Hale, Peter T.; and Bird, David A., 3,646,167.
- Riley, Raymond A., 3,662,632.
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- Ware, Peter G., 3,691,764.
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Archidroit, Jacques, 3,648,751.
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- Charnock, Harry; and Bowker, David E., 3,703,424.
- Cuenoud, Gerard; and Addoutte, Roland, 3,693,549.
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- Farman, James A., 3,656,450.
- Folkes, Hugh L., 3,666,085.
- Folkes, Hugh L.; and Devenish, Graham F., 3,669,238.
- French, Tom, 3,653,422.
- Goy, Ronald S.; and Moring, Peter L. E., 3,668,857.
- Higgs, Maurice William; and Clarke, Dennis Ivor, 3,661,674.
- Jenkins, Peter J.; and Neller, William C., 3,640,371.
- Jervis, Roy, 3,679,552.
- King, Colin F., 3,677,300.
- Mallabar, John J., 3,660,326.
- Mills, Iain C., 3,669,174.
- Morris, Raymond J. T., 3,690,925.
- Poyner, James, 3,664,405.
- Roberts, Glyn B.; and Holmes, Thomas, 3,645,313.
- Searle, Eric H.; and Goud, Eric G., 3,648,164.
- Shrimpton, Ronald Horace; and Dunkley, Keith William, 3,700,541.
- Tonkin, Stephen W., 3,664,266.
- Ware, Peter G., 3,648,665.
- Ware, Peter G., 3,681,000.
- Winstanley, Roy D. J.; Grossett, Alfred H.; and Harrington, Wilfred H., 3,654,007.
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- Young, Maurice A., 3,669,173.
- Zuppiger, Paul, 3,695,183.
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Brooke, Thomas Andrew; and Robinson, Peter Michael, 3,639,190.
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Hoke, Gilbert J., 3,706,334.
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Lyons, Charles R.; Dunn, Adam D.; and Wadekamper, Leslie, 3,641,753.
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Marshall, Peter W.; Arnold, Peter; and Dunn, Francis P., 3,687,204.
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Berges, David A.; Dunn, George L.; and Hoover, John R. E., 3,701,775.
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Alger, Martin J., Jr.; and Dunn, Nelson H., 3,707,034.
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Rice, Graham; Whitby, Herbert C.; and Dunn, Peter Douglas, 3,688,083.
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Handler, Elliot; Ryan, John W.; Lemkin, Jack L.; and Dunn, Ralph, 3,686,894.
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Bourgraf, Elroy E.; and Dunn, Robert E., 3,637,232.
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Evans, Robert P.; Hussar, Joseph P.; Evans, Gerald R.; and Dunn, Robert T., 3,705,960.
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Sloan, Benjamin Johnston, Jr.; Martin, Billy M.; Clevenger, Loyd H.; and Dunn, Roger S., 3,659,160.
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- Dunn, Thomas J. Drive unit for reciprocating element. 3,648,444, 3-14-72, Cl. 56-296.
- Dunn, Thomas J. Mounting assembly. 3,664,057, 5-23-72, Cl. 56-10.4.
- Dunn, Vernon E.; and Vane, Arthur B., to Varian Associates. Digitally tuned stripline oscillator. 3,668,553, 6-6-72, Cl. 331-107.00g.
- Dunn, W. E., Mfg. Co.: *See—*
Nordgren, Alfred A., 3,661,186.
Nordgren, Alfred A., 3,678,971.
Person, Gustav B., 3,652,864.
- Dunn, Wendell E., Inc.: *See—*
Dunn, Wendell E., Jr., 3,699,206.
- Dunn, Wendell E., Jr. Dual flue condenser. 3,683,590, 8-15-72, Cl. 55-71.000.
- Dunn, Wendell E., Jr., to Dunn, Wendell E., Inc. Process for beneficiation of titaniferous ores. 3,699,206, 10-17-72, Cl. 423-74.000.
- Dunn, William J.: *See—*
Block, Leonard A.; and Dunn, William J., 3,677,416.
White, George H.; and Dunn, William J., 3,635,515.
- Dunn, William Lawrence: *See—*
Vaughan, George Alfred; and Dunn, William Lawrence, 3,687,412.
- Dunn, William M.; and Sarnes, Myron C., to Federal-Mogul Corporation. Composite heavy-duty mechanism element and method of making the same. 3,665,585, 5-30-72, Cl. 29-420.000.
- Dunnahoe, Richard G.: *See—*
Slechta, Alfred F.; Culp, Gordon L.; and Dunnahoe, Richard G., 3,669,742.
- Dunnahoe, Richard G.; Bondahl, Gary B.; and Roth, Paul W., to Neptune Microfloc, Incorporated. Method and apparatus for air-cleaning settling tube modules. 3,669,741, 6-13-72, Cl. 134-22.00r.
- Dunne, Edward A., to Wiggins Teape (Ireland) Limited. Method of manufacturing envelopes containing free inserts. 3,634,994, 1-18-72, Cl. 53-31.
- Dunne, Gilbert M., Jr.: *See—*
Rotsky, Bernard A.; and Dunne, Gilbert M., Jr., 3,701,236.
- Dunne, Maurice J.; and Munson, George E., Jr., to Unimation, Inc. Programmed manipulator apparatus with artificial end-of-program facilities. 3,654,613, 4-4-72, Cl. 340-172.5.
- Dunne, Maurice J.; Correll, Robert E.; and Picard, Joseph Albert, Jr., to Unimation, Inc. Program selection arrangement for manipulator apparatus. 3,654,616, 4-4-72, Cl. 340-172.5.
- Dunne, Maurice J.; Engelberger, Joseph F.; Gardner, Horace L.; and Lindbom, Torsten H., to Unimation, Inc. Programmed manipulator apparatus. 3,661,051, 5-9-72, Cl. 91-35.
- Dunne, Owen F.; Hebert, William E.; Souza, Ronald; and Wargat, Edward, to Zalking Sewing Machine & Supply Co. Thread cutting attachment for a sewing machine. 3,696,770, 10-10-72, Cl. 112-252.000.
- Dunne, Robert F. Removable structure. 3,631,640, 1-4-72, Cl. 52-238.
- Dunnell, Alan Keith; Greenwood, David; and Wade, Thomas C. J., to Imperial Chemical Industries Limited. Gears for crimping yarn. 3,686,723, 8-29-72, Cl. 28-1.800.
- Dunnenberger, Max; and Biland, Hans Rudolf, to Ciba-Geigy AG. Bisoxalic acid diamides. 3,706,798, 12-19-72, Cl. 260-559.00a.
- Dunning, Charles E., to Kimberly-Clark Corporation. Air formed webs of bonded pulp fibers. 3,692,622, 9-19-72, Cl. 161-124.000.
- Dunning, Franklin W.; and Gorjanc, Henry A., to McNeil Corporation. Storage and retrieval apparatus. 3,701,442, 10-31-72, Cl. 214-16.40a.
- Dunning, Herbert N.; Strommer, Palmer K.; and Vanhulle, Glenn J., to General Mills, Inc. Method and apparatus of texturing protein. 3,707,380, 12-26-72, Cl. 99-17.000.
- Dunning, Herbert Neal: *See—*
Strommer, Palmer K.; Valentas, Kenneth J.; and Dunning, Herbert Neal, 3,656,965.
- Dunning, Richard E. Hot stamp tape. 3,666,516, 5-30-72, Cl. 117-3.400.
- Dunning, Robert William; Taylor, Keith Andrew; and Walker, John, to Imperial Chemical Industries Limited. Dimerisation of olefins. 3,642,935, 2-15-72, Cl. 260-683.15.
- Dunning, Walter B.: *See—*
Thomas, Raymond J.; McDonald, William G.; and Dunning, Walter B., 3,688,625.
- Dunogues, Jacques: *See—*
Duffaut, Norbert; Dunogues, Jacques; Calas, Raymond; and Marin, Gilbert, 3,657,302.
- Dunou, Pierre Andre, to Compagnie des Compteurs. Pulse rate device to compute square root of products. 3,702,927, 11-14-72, Cl. 235-158.000.
- Dunoyer, Camille. Hydrotherapeutic breast treating apparatus. 3,693,615, 9-26-72, Cl. 128-66.000.
- Dunphy, Gerald P.: *See—*
Penton, Hugh V.; and Dunphy, Gerald P., 3,704,535.
- Dunphy, Kenneth Robert; and Helseth, Richard Lee. Product weighting system. 3,705,636, 12-12-72, Cl. 177-114.000.
- Dunseath, Edward. Fuel lock. 3,700,063, 10-24-72, Cl. 180-114.000.
- Dunseth, Maria G.; and Brinkman, Joel J., to United States of America, Interior. Treatment of sewage digester supernatant liquor. 3,634,231, 1-11-72, Cl. 210-56.
- Dunsmuir, George H.: *See—*
Young, Michael A. B.; and Dunsmuir, George H., 3,648,799.
- Dunst, Robert A.: *See—*
Samuelson, Bruce E.; and Dunst, Robert A., 3,655,927.
- Dunton, John T.; and Van Houtte, Richard G., to Dresser Industries, Inc. High temperature pipe coupling. 3,653,695, 4-4-72, Cl. 285-340.
- Dunwald, Willi: *See—*
Merten, Rudolf; Dunwald, Willi; and Mielke, Karl-Heinz, 3,642,524.

- Dunwell, David William; and Evans, Delme. Pyrimidotriazinone compounds. 3,694,441, 9-26-72, Cl. 260-249.500.
- Duong, Tuan Kiet: *See—*
Bellanger, Maurice Georges; Daguet, Jacques Lucien; and Duong, Tuan Kiet, 3,674,937.
- Dupas, Robert; and Ostyn, Marcel, to Esso Research and Engineering Company. Lubricating oil composition. 3,634,249, 1-11-72, Cl. 252-59.
- Dupasquier, Joseph H. Discharging nozzle assembly for producing equalized distribution of pressurized fluid in an elongated drying chamber. 3,669,831, 6-13-72, Cl. 162-290.000.
- Dupea, Fred W. Vacuum cleaner head for cleaning and combing shag carpeting. 3,668,735, 6-13-72, Cl. 15-397.000.
- Duphorn, Ingolf: *See—*
Schacht, Ulrich; Tschesche, Rudolf; and Duphorn, Ingolf, 3,660,569.
- Dupieux, Jacques Georges; Gadre, Jean-Claude; Le Corre, Jean-Pierre; deceased (by La Corre, Yvette Marie Laurence; administratrix); and Loisel, Jean Francois Pierre Julien, to International Standard Electric Corporation. TDM switching network using time speed control signals. 3,678,206, 7-18-72, Cl. 179-18.00j.
- Duplan Corporation, The, mesne: *See—*
Anderson, Sven; and Lombardo, Anthony, 3,699,907.
- Dupler, Raymond R. Body and head covering. 3,696,450, 10-10-72, Cl. 5-334.000.
- Duplex, Paul: *See—*
Globus, Anatol; Duplex, Paul; and Vautier, Roger, 3,674,218.
- Dupnock, Andrew; Gorey, Edward F.; and Keenan, William A., to International Business Machines Corporation. Method for measuring resistivity. 3,676,775, 7-11-72, Cl. 324-64.000.
- Dupol-Rubbermaid GmbH Fabrik fur Gummi- und Kunststoffherzeugung: *See—*
Hubel, Otto, 3,654,657.
- DuPont, Andre Pierre Francois, to DuPont, S. T., (Societe Anonyme). Spark wheel actuating mechanism particularly for cigarette lighters. 3,661,498, 5-9-72, Cl. 431-275.
- Dupont, Eugene F.: *See—*
Stangarone, Gene; Cassara, Frank A.; and Dupont, Eugene F., 3,675,615.
- Dupont, Gerard Pierre Marie-Joseph. Space-heating burner. 3,639,094, 2-1-72, Cl. 431-115.
- Dupont, Paul E.: *See—*
Mooradian, Aram; and Dupont, Paul E., 3,657,350.
- Dupont Roger: *See—*
Carriere, Christian; and Dupont Roger, 3,666,969.
- DuPont, Ronald Charles, to GSW Limited-GSW Limitee. Spout structure. 3,643,987, 2-22-72, Cl. 285-205.
- DuPont, S. T., (Societe Anonyme): *See—*
DuPont, Andre Pierre Francois, 3,661,498.
- Dupouy, Jean. Device for rapidly loading a revolver cylinder. 3,667,146, 6-6-72, Cl. 42-89.
- Dupre, Herman K. Waste treatment systems. 3,695,439, 10-3-72, Cl. 210-173.000.
- Dupre, Herman K. Apparatus and method for making snow. 3,706,414, 12-19-72, Cl. 239-14.000.
- Dupre, Jean; and Booman, Keith A., to Rohm & Haas Company. Synergistic combination for inhibiting the attack of alkaline solutions on alkali sensitive substrates. 3,653,095, 4-4-72, Cl. 21-2.7.
- Dupre, Jean, to Rohm & Haas Company. Method of imparting soil release properties to fabrics. 3,655,436, 4-11-72, Cl. 117-129.5.
- Dupre, Jean; and Booman, Keith A., to Rohm & Haas Company. Synergistic combination of silicates and barium salts for inhibiting the attack of alkaline solutions on aluminum containing materials. 3,655,582, 4-11-72, Cl. 252-387.
- Dupre, John J., to Hewlett-Packard Company. Yig-tuned solid state microwave oscillator. 3,668,554, 6-6-72, Cl. 331-107.00r.
- Dupre, Victor M.: *See—*
Sureau, Robert F. M.; Kremer, Gilbert V. H.; and Dupre, Victor M., 3,634,414.
- Dupre, Victor Marie: *See—*
Sureau, Robert Frederic Michel; Alicot, Marie-Jospehe Jeanne; and Dupre, Victor Marie, 3,644,389.
- Dupree, Inc.: *See—*
Dupree, James N., 3,659,249.
Dupree, James N.; and Walker, Frank A., 3,665,459.
Dupree, James N., 3,673,544.
- Dupree, James N., to Dupree, Inc. Lamp assembly for edge lighted panel. 3,659,249, 4-25-72, Cl. 339-88.
- Dupree, James N.; and Walker, Frank A., to Dupree, Inc. Annunciator light hinged cover. 3,665,459, 5-23-72, Cl. 340-381.000.
- Dupree, James N., to Dupree, Inc. Connector for lamp socket. 3,673,544, 6-27-72, Cl. 339-61.00l.
- Dupree, Paul Montgomery: *See—*
Sheehan, Gerard Martin; Roberts, George Leathwhite, Jr.; and Dupree, Paul Montgomery, 3,658,566.
- Duprey, Francis S., to Parker Manufacturing Company. Handle lock for a cutting instrument. 3,681,845, 8-8-72, Cl. 30-341.000.
- Duprey, Richard H., to Interroyal Corporation. Bed locking device. 3,676,881, 7-18-72, Cl. 5-63.000.
- Dupuis, Hubert, to Allegheny Ludlum Industries, Inc. Indexable cutting inserts. 3,681,830, 8-8-72, Cl. 29-95.000.
- Dupuis, Hubert J., to Carmet Company. Indexable broach. 3,656,220, 4-18-72, Cl. 29-95.1.
- Dupuis, Hubert J., to Carmet Company. Cutting insert holder. 3,665,571, 5-30-72, Cl. 29-96.
- Dupuis, Jean, to General Fireproofing Company, The. Detachable tablet arm assembly. 3,680,911, 8-1-72, Cl. 297-162.000.
- Duquaine, Gordon L.: *See—*
Carlson, Clarence C.; and Duquaine, Gordon L., 3,707,404.
- DuQuesnay, Robert H.: *See—*
Hedin, Robert A.; and DuQuesnay, Robert H., 3,651,464.
- Duquette, Noel Charles, to Brill, H. C., Company, Inc. Enzymatic baking compositions and methods for using same. 3,650,764, 3-21-72, Cl. 99-90.
- Duquette, William F.; Stormzand, Dale T.; and Rauhauser, Warren C., to Avis Industrial Corporation. Wireway divider. 3,633,628, 1-11-72, Cl. 138-116.
- Dura Corporation: *See—*
Aarup, Carl P., 3,671,055.
Littmann, Joseph C., 3,635,100.
McGee, Donald J., 3,694,001.
- Dura Fiber, Inc.: *See—*
Jenks, Herbert R., 3,641,230.
- Dura-Pak, Inc.: *See—*
Panasevicz, Anton Z., 3,678,652.
- DuraCraft Boats, Inc.: *See—*
Ward, Milton K., 3,642,320.
- Durametallic Corporation: *See—*
Adams, William V., 3,655,206.
Hummer, Herbert B., 3,661,398.
Hummer, Herbert B., 3,697,088.
- Duran, Conrado E. Hand operated wheeled V-blade snowplow. 3,664,042, 5-23-72, Cl. 37-47.
- Duran, Raymond J.; and Musch, Gordon F., to Black and Decker Manufacturing Company, The. Trimmer-edger debris catcher. 3,672,139, 6-27-72, Cl. 56-202.000.
- Durand & Huguenin A.G.: *See—*
Keller, Heinz; and Grossmann, Hans, 3,649,654.
- Durand, Francois. Device for transmitting motion. 3,707,212, 12-26-72, Cl. 192-150.000.
- Durand, Harry Walter, to Grain Processing Corporation. Derivatized starch thinning with hydrogen peroxide. 3,655,644, 4-11-72, Cl. 260-233.3.
- Durand, Jacqueline. Photographic light box. 3,643,085, 2-15-72, Cl. 240-20.
- Durand, Jean-Francois: *See—*
Houot, Jean-Jacques; Pelissier, Yves; and Durand, Jean-Francois, 3,645,565.
- Durand, Marce, to Pomagalski, Jean, S.A. Power hoisting apparatus. 3,640,506, 2-8-72, Cl. 254-187.
- Durand, Marcel, to Pomagalski, Jean, S.A. Winch or hoist with a friction brake device. 3,640,505, 2-8-72, Cl. 254-150.
- Durand, Philip E., to United States of America, Army. Low profile size adjustable protective helmet. 3,665,514, 5-30-72, Cl. 2-3.
- Durand, Pierre: *See—*
Lartigue, Gerard; and Durand, Pierre, 3,684,453.
- Durand, Pierre, to Societe Anonyme Richier. Device for achieving permanent equilibration in tower cranes. 3,642,148, 2-15-72, Cl. 212-48.
- Duranleau, Roger G.: *See—*
Smetana, Richard D.; and Duranleau, Roger G., 3,646,226.
- Durant, Dennis J.: *See—*
Crovatt, Lawrence W., Jr.; and Durant, Dennis J., 3,654,235.
- Durant, Walter F. Wheel puller. 3,638,294, 2-1-72, Cl. 29-252.
- Durbin, George A. Juice extracting device. 3,673,952, 7-4-72, Cl. 100-98.000.
- Durbin, Larry E.; and Thomas, Robert, to Big Three Industrial Gas & Equipment Co. Gravity switch assembly. 3,651,290, 3-21-72, Cl. 200-61.45.
- D'Urbino, Donato: *See—*
Decursu, Giorgio; De Pas, Jonathan; D'Urbino, Donato; and Lomazzi, Paolo, 3,672,723.
- Durcam Research and Development Company Limited: *See—*
Temple, Stephen, 3,697,344.
- Durckheimer, Walter: *See—*
Schorr, Manfred; Durckheimer, Walter; and Duwel, Dieter, 3,658,834.
Schorr, Manfred; Durckheimer, Walter; and Duwel, Dieter, 3,660,422.
Schorr, Manfred; Durckheimer, Walter; Behrendt, Lothar; and Duwel, Dieter, 3,676,446.
- Durdin, Lewis H.: *See—*
Wunsche, Edgar; Turner, Alfred H.; and Durdin, Lewis H., 3,686,421.
- Duren, Jesse Thomas, to Ralston Purina Company. High protein pudding. 3,689,288, 9-5-72, Cl. 99-139.000.
- Duren, Lennart Axel: *See—*
Andersson, Arne Hilding; and Duren, Lennart Axel, 3,691,437.

- Duren, Lennart Axel; and Andersson, Arne, to Amlab AB. Ultrasonic generators. 3,694,713, 9-26-72, Cl. 318-116.000.
- Duren, Rainer; and Neidig, Klaus, to Volkswagenwerk Aktiengesellschaft. Guide lock for motor vehicles. 3,656,098, 4-11-72, Cl. 340-52.
- Durgarian, Sergei Garievich: *See*—
Nametkin, Nikolai Sergeevich; Durgarian, Sergei Garievich; Soloviev, Evgeny Vladimirovich; and Piryatinsky, Viktor Maximovich, 3,637,899.
- Durham, Charles Edward, to Clenaglass Electric Washer Limited. Brushes for cleaning glasses and other drinking vessels. 3,675,263, 7-11-72, Cl. 15-76.000.
- Durham, Nolan B., 1/2 to Crowe Manufacturing Company. Dual wheel assembly and clamp therefor. 3,675,974, 7-11-72, Cl. 301-13.0sm.
- Durham, Robert E., to Container Corporation of America. Partition divider. 3,640,445, 2-8-72, Cl. 229-15.
- Durham, Roger Owen. Personal armor. 3,696,439, 10-10-72, Cl. 2-2.500.
- Durinck, Rene; and Boussekey, Bernard, to Fives Lille-Cail. Support for rotary furnaces. 3,648,992, 3-14-72, Cl. 263-33.
- Duriron Company, Inc.: *See*—
Bowen, John C., 3,661,060.
Bowen, John C., 3,668,978.
- Durkee, Everett L.: *See*—
Lowe, Edison; and Durkee, Everett L., 3,634,103.
- Durkee, Gale H. Adjustable rake. 3,701,243, 10-31-72, Cl. 56-400.180.
- Durkee, Jackson L.; Beighley, Arthur F.; and Dunlap, Donald E.; deceased (by Dunlap, Mary E.; administratrix), to Bethlehem Steel Corporation. Method of making parallel wire strand. 3,659,633, 5-2-72, Cl. 140-111.
- Durkee, John E., to Thomas Industries, Inc. Fire and burglar alarm system. 3,686,668, 8-22-72, Cl. 340-420.000.
- Durkee, John E., to Thomas Industries, Inc. Control system having transmitter-receiver sets for operating functional device over power lines. 3,689,886, 9-5-72, Cl. 340-163.000.
- Durkin, Joseph A.; Estes, John H.; and Lafferty, William L., Jr., to Texaco Inc. Hydroisomerization in the presence of carbon oxide promoted catalyst. 3,652,709, 3-28-72, Cl. 260-683.68.
- Durkoppwerke GmbH: *See*—
Nicolay, Karl, 3,640,236.
Nicolay, Karl, 3,669,043.
Nicolay, Karl; and Pollmeier, Konrad, 3,704,884.
- Durner, Josef: *See*—
Pfister, Franz; Albrecht, Ernst; Durner, Josef; and Maus, Eicke, 3,687,005.
- Durney, George P., to ILC Industries, Inc. Ventilation system for inflatable pressure garments. 3,667,459, 6-6-72, Cl. 128-142.5.
- Durney, George P., to ILC Industries, Inc. Spacesuit thigh restraint assembly. 3,699,589, 10-24-72, Cl. 2-2.100.
- Duro-Dyne Corporation: *See*—
Hinden, Milton; and Porat, David, 3,701,878.
- Duro-Test Corporation: *See*—
Cortorillo, Salvatore; Shaffer, George A.; and Strauss, Herbert S., 3,636,401.
Koo, Ronald C.; and Shurgan, Joel, 3,662,789.
Strauss, Herbert S., 3,675,068.
Thorington, Luke; and Parascandola, Louis J., 3,670,193.
- DuRocher, Gideon A., to Essex International, Inc. Power locking and unlocking apparatus for vehicle doors. 3,653,237, 4-4-72, Cl. 70-264.
- DuRocher, Gideon A.; and Kosowan, Michael B., to Essex International, Inc. Motor actuated seat back latch release mechanism. 3,655,240, 4-11-72, Cl. 297-379.
- DuRocher, Gideon A., to Essex International, Inc. Thermally sensitive controls for electric circuits. 3,676,815, 7-11-72, Cl. 337-140.000.
- Durolith Corporation: *See*—
Casson, Edward A., Jr.; Gaul, Albro T.; Langlais, Eugene L.; Shadlen, Gerald; and Vanaver, Eugene L., 3,658,662.
- Duron, Paul P.; and Rich, Harold T., to Air Reduction Company, Incorporated. Machine for making dry ice pellets. 3,670,516, 6-20-72, Cl. 62-35.000.
- Duroux, Jacques Marius: *See*—
Boichard, Jacques; Brossar, Bernard Pierre; Duroux, Jacques Marius; and Janin, Raymond Marc Clement, 3,651,135.
Charamel, Andre; Duroux, Jacques Marius; Siquet, Serge; and Descroix, Jaques, 3,692,830.
- Durowe G.m.b.H.: *See*—
Stemmler, Ewald, 3,633,354.
Stemmler, Ewald, 3,636,700.
- Durr, Alfred W.; Gunsser, Otto; and Heller, Hubert H., to Gebruder Heller Maschinenfabrik GmbH. Machine tool with additional tool magazine. 3,688,362, 9-5-72, Cl. 29-26.000.
- Durr, Heinz, to Durr, Otto. Method for treating the surfaces of vehicle bodies. 3,705,817, 12-12-72, Cl. 117-49.000.
- Durr, Helmut: *See*—
Wagner, Karl; and Durr, Helmut, 3,672,286.
- Durr, Helmut, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with automatic exposure control means. 3,641,888, 2-15-72, Cl. 95-10.
- Durr, Helmut. Photographic apparatus with indicating means for selected exposure time and aperture size. 3,678,824, 7-25-72, Cl. 95-10.0ce.
- Durr, Helmut Emil; and Haller, Albert Heinz, to Western Electric Company, Incorporated. Method for inserting material into the apertures of an apertured workpiece. 3,660,161, 5-2-72, Cl. 136-67.
- Durr, Larry L.; and Clay, Byron Jan, to Textile Technology, Inc. Textile treating processing and apparatus involving both water and an immiscible solvent. 3,692,467, 9-19-72, Cl. 8-158.000.
- Durr, Otto: *See*—
Durr, Heinz, 3,705,817.
- Durran, Donald A.; and Platus, Daniel H., to United States of America, Air Force. Spin control system for reentry vehicle. 3,690,596, 9-12-72, Cl. 244-3.210.
- Durrant, George G.; and Cowe, Peter L., to Laporte Industries Limited. Treatment of pigments. 3,649,321, 3-14-72, Cl. 106-300.
- Durram Chemical Corporation: *See*—
Benson, James R., 3,686,118.
- Durram Instrument Corporation: *See*—
Tipotsch, Donald G., 3,637,311.
- Durrwachter, Eugen; and Reichert, Otto, to Durrwachter, Eugen, Dr., DODUCO. Process for a continuous selective electroplating of strip. 3,691,026, 9-12-72, Cl. 204-28.000.
- Durrwachter, Eugen, Dr., DODUCO: *See*—
Durrwachter, Eugen; and Reichert, Otto, 3,691,026.
- Durso, Alphonse J.: *See*—
Pescuma, Gerald F.; Durso, Alphonse J.; and Brown, Walter T., 3,665,738.
- Durso, August J.: *See*—
Durso, August J.; Maurer, Frank C.; and McEnery, John F. (said Maurer and said McEnery assors. to said), 3,648,872.
- Durso, August J.; Maurer, Frank C.; and McEnery, John F., said Maurer and said McEnery assors. to said Durso, August J. Safety container and closure cap unit therefor. 3,648,872, 3-14-72, Cl. 215-9.
- D'Urso, Gianfranco: *See*—
Teagno, Wladimiro; and D'Urso, Gianfranco, 3,633,156.
Teagno, Wladimiro; and D'Urso, Gianfranco, 3,634,811.
- Durst, David L. Collapsible sauna. 3,648,299, 3-14-72, Cl. 4-160.
- Durst, Felix. Device for cleaning venetian blind slats. 3,643,277, 2-22-72, Cl. 15-77.
- Durst, Reuben H.: *See*—
Calaceto, Ralph R.; Durst, Reuben H.; and Millar, David, 3,638,924.
- Durst, Richard R.; and Uelzmann, Heinz, to General Tire & Rubber Company, The. Titanium trihalide-amine hydrohalide complexes. 3,700,707, 10-24-72, Cl. 260-429.500.
- Durstewitz, Gerald: *See*—
Cirillo, John; and Durstewitz, Gerald, 3,637,110.
- Durstewitz, Gerald, to Kidde, Walter, & Company, Inc. Frictionless bi-directional inertia responsive gas dispensing apparatus. 3,661,299, 5-9-72, Cl. 222-3.
- Durteste, Bernard Pierre; Henrion, Michel Andre Robert; and Le Corre, Jean-Pierre; deceased (by Le Corre, Yvette Marie Laurence; administratrix), said Durteste and said Henrion assors. to International Standard Electric Corporation. Scanning circuits. 3,692,944, 9-19-72, Cl. 179-18.0ff.
- Durteste, Bernard Pierre Jean; Gadre, Jean-Claude; and Loisel, Jean Francois Pierre Julien, to International Standard Electric Corporation. Signalling supervision unit. 3,657,698, 4-18-72, Cl. 340-146.1.
- Durwood, Inc.: *See*—
Schumann, Robert J.; and Priest, Wayne A., 3,663,826.
- Duryea, George R.: *See*—
Weatherston, Roger C.; and Duryea, George R., 3,667,874.
- Duschinsky, Robert: *See*—
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, 3,641,047.
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, 3,679,698.
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, 3,700,698.
- Dusek, Ervin F., to Reliable Manufacturing Corporation. Popcorn popper. 3,699,874, 10-24-72, Cl. 99-238.100.
- Dusenbery, John, Company, Inc.: *See*—
Young, Roger W., 3,651,728.
- Dushkes, Sherman Z.; and Trollmann, Conrad, to International Business Machines Corporation. Hot gas solder removal. 3,653,572, 4-4-72, Cl. 228-20.
- Dushkes, Sherman Z.; and Surty, Rohinton J., to International Business Machines Corporation. Miniature ultrasonic bonding device. 3,670,944, 6-20-72, Cl. 228-1.000.
- Dusik, Josef: *See*—
Havranek, Milan; Zouhar, Drahomir; Dusik, Josef; Kucera, Jaromir; and Krejcirik, Jiri, 3,673,818.
- Dusing, Gerhard: *See*—

- Kuhner, Gerhard; Sauer, Heinrich; Jager, Gerhard; and Dusing, Gerhard, 3,701,480.
- Duss, Walter, to Peyer, Siegfried. Multiple operating head machines, particularly multiple spindle textile spooling machines with supervisory operating time indicator. 3,697,732, 10-10-72, Cl. 235-151.300.
- Dussardier, Claude J., to Norgren, C. A., Co. Lubricator sight feed dome. 3,707,204, 12-26-72, Cl. 184-55.00a.
- Dussel, Paul E., to Falls Machine Company. Longitudinally divided tube and method of making the same. 3,692,060, 9-19-72, Cl. 138-89.000.
- Dussich, Joseph A. Method and apparatus for axially compressing and storing flexible tubular material. 3,681,889, 8-8-72, Cl. 53-3.000.
- Dussourd, Jules L.; and Haugen, Ronald L., to Ingersoll-Rand Company. Gas drying apparatus and method. 3,696,588, 10-10-72, Cl. 55-163.000.
- Dust, Hanspeter: *See*—
Lewer, Hans; Dust, Hanspeter; and Thoennes, Martin, 3,657,135.
Witten-Annen, Hans Lewer; Dust, Hanspeter; and Thonnes, Martin, 3,681,246.
- Dustikin Products, Inc.: *See*—
Scheuer, Fred F., 3,664,064.
- Dustin, Daniel S., to Minnesota Mining and Manufacturing Company. Presensitized light-sensitive letterpress printing makeready. 3,703,362, 11-21-72, Cl. 96-38.200.
- Duswalt, Allen A., to Hercules Incorporated. Process for stabilizing hydrox compositions containing magnesium oxides. 3,692,687, 9-19-72, Cl. 252-184.000.
- Dusza, John Paul: *See*—
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- Duszka, Stephen. Loading device for trucks. 3,642,154, 2-15-72, Cl. 214-83.24.
- Dutcher, Daniel P., to Hoerner-Waldorf Corporation. Display carton. 3,664,493, 5-23-72, Cl. 206-45.14.
- Dutcher, Daniel P., to Hoerner-Waldorf Corporation. Display carton. 3,670,881, 6-20-72, Cl. 206-45.340.
- Dutcher, Daniel P., to Hoerner-Waldorf Corporation. Covered tray package. 3,675,764, 7-11-72, Cl. 206-45.340.
- Duthie, Robert W.: *See*—
Panter, Robert B.; Dufton, John Peter; Duthie, Robert W.; and Verbaas, George, 3,678,197.
- Duthion, Louis; and Seguela, Claude Jean-Marie. Feed unit for a fuel burner. 3,658,302, 4-25-72, Cl. 259-18.
- Duthoit, Jean: *See*—
Plumat, Emile; Duthoit, Jean; Toussaint, Francois; and Van Laethem, Robert, 3,632,321.
- Dutkewych, Oleh B.: *See*—
Gulla, Michael; and Dutkewych, Oleh B., 3,663,242.
Shipley, Charles R., Jr.; and Dutkewych, Oleh B., 3,650,959.
- Dutkewych, Oleh Borys: *See*—
Shipley, Charles Raymond; Gulla, Michael; and Dutkewych, Oleh Borys, 3,677,776.
- Dutkiewicz, Bronislaw K., to Stone & Webster Engineering Corporation. Heating apparatus and process. 3,677,234, 7-18-72, Cl. 122-240.00a.
- Dutkewych, Oleh B.: *See*—
Gulla, Michael; and Dutkewych, Oleh B., 3,649,308.
- Dutnell, Richard C. Pop top closure. 3,637,104, 1-25-72, Cl. 220-25.
- Dutot, Christian, to Regie Nationale des Usines Renault and Automobiles Peugeot. Devices for guiding movable assemblies. 3,649,090, 3-14-72, Cl. 308-3.6.
- Dutra, Joseph G., Jr. Pruning shears. 3,688,405, 9-5-72, Cl. 30-135.000.
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Glaser, Donald A.; Dutro, Lyle V.; and Pendleton, Woodrow W., 3,656,738.
- Dutschke, Thomas W. Harvester. 3,648,870, 3-14-72, Cl. 214-519.
- Dutt, Prabir K.: *See*—
Marvel, Carl S.; Bracke, William; and Dutt, Prabir K., 3,635,896.
- Duttera, Robert B.; and Macshane, Gordon H., to Teledyne, Inc. Tubular composite self-shielded arc welding electrodes. 3,643,061, 2-15-72, Cl. 219-146.
- Dutton, John C., to General Electric Company. High voltage coil assembly for electric induction apparatus. 3,675,175, 7-4-72, Cl. 336-70.000.
- Dutton-Lainson Company: *See*—
Molinare, Anthony W., 3,649,080.
Perry, Max W.; and Brockelsby, Norman D., 3,648,728.
Perry, Max W.; and Brockelsby, Norman D., 3,664,556.
Perry, Max W.; and Brockelsby, Norman D., 3,681,550.
Priest, Wayne A.; and Weigand, Arthur D., 3,687,249.
- Duval, Bruce: *See*—
Waddington, Rogor Strange; and Duval, Bruce, 3,693,264.
- Duval Corporation: *See*—
Bourne, Douglas J.; and Lamb, Frank E., 3,656,892.
- Duval, Georges A.; and Hernandez, Francois, to International Standard Electric Corporation. Selection systems for electrical circuits or equipments. 3,701,853, 10-31-72, Cl. 179-18.0ha.
- Duvall, David Scott: *See*—
Paulonis, Daniel F.; Duvall, David Scott; and Owczarski, William A., 3,678,570.
- Duvall, Harvey H. Film cartridge. 3,690,582, 9-12-72, Cl. 242-71.100.
- Duvall, Jacques L., to BASF Wyandotte Corporation. Antifoam agent. 3,705,860, 12-12-72, Cl. 252-358.000.
- Duvall, Thomas E.: *See*—
Domin, Daniel J.; and Duvall, Thomas E., 3,707,201.
- DuVall, Wilbur E., to Xerox Corporation, mesne. Apparatus for rapid action displacement control. 3,699,555, 10-17-72, Cl. 340-174.10c.
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Oberst, Hermann; Reihs, Leonhard; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,830.
Oberst, Hermann; Reihs, Leonhard; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,833.
Oberst, Hermann; Reihs, Leonhard; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,834.
Oberst, Hermann; Leonhard, Hofheim; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,835.
Oberst, Hermann; Reihs, Leonhard Hofheim; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,836.
Oberst, Hermann; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,674,624.
Oberst, Hermann; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,674,625.
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Bartmann, Wilhelm; Duwel, Dieter; Georgi, Volkmar; Wolf, Erhard; Beermann, Claus; and Landauer, Franz, 3,661,966.
Ruschig, Heinrich; Duwel, Dieter; Konig, Johann; and Loewe, Heinz, 3,681,458.
Schorr, Manfred; Durckheimer, Walter; and Duwel, Dieter, 3,658,834.
Schorr, Manfred; Durckheimer, Walter; and Duwel, Dieter, 3,660,422.
Schorr, Manfred; Durckheimer, Walter; Behrendt, Lothar; and Duwel, Dieter, 3,676,446.
- Duyfjes, Werner: *See*—
de Lange, Willem; Duyfjes, Werner; and Maas, Willem, 3,679,776.
- Duyfjes, Werner; and Maas, Willem, to North American Philips Co., Inc. Pesticidal composition and method of preparing same. 3,686,419, 8-22-72, Cl. 424-356.000.
- Duyster, Hubert P. J.: *See*—
Ryan, John H.; Lukes, Jerome A.; Neitzel, Ulrich E.; and Duyster, Hubert P. J., 3,634,041.
- Duyverman, Coenraad J., to Stamicarbon N.V. Process for preparing unsaturated alcohols. 3,686,333, 8-22-72, Cl. 260-638.00b.
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Fauran, Claude P.; Raynaud, Guy M.; Duzon, Colette A.; and Gouret, Claude J., 3,663,572.
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Alburn, Harvey E.; Dvonch, William; and Grant, Norman H., 3,652,609.
Alburn, Harvey E.; and Dvonch, William, 3,655,725.
- Dvonch, William; and Alburn, Harvey E., to American Home Products Corporation. 7-(1,4-Cyclohexadienylacetyl)amido cephalosporanic acids and related compounds. 3,704,297, 11-28-72, Cl. 260-243.00c.
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Fleck, Raymond N.; Dvoracek, Louis M.; and Lueth, Paul F., 3,682,815.
- Dvoracek, Louis M.; and Sarem, Amir M., to Union Oil Company of California. Fouling rate reduction in heated hydrocarbon streams with degraded polyisobutylene. 3,668,111, 6-6-72, Cl. 208-48.
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Kochta, Zdenek; and Dvoracnek, Karel, 3,664,157.
- Dvorak, Frank. Metal plate shears. 3,678,792, 7-25-72, Cl. 83-459.000.
- Dvorin, Semen Semenovich: *See*—
Makarov, Gleb Nikolaevich; Zhitov, Boris Nikolaevich; Zagorets, Anatoly Mikhailovich; Korolev, Jury Germanovich;

Syskov, Konstantin Ivanovich; Filonenko, Jury Yakovlevich; Dvorin, Semen Semenovich; Lerner, Ruvim Zinovievich; Mustafin, Fuat Akhtemovich; Semnov, Alexandr Semenovich; Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich, 3,667,746.

Dworak, Wilhelm, to Bosch, Robert, G.m.b.H. Wearing reducing arrangement for hydraulic gear apparatus. 3,632,240, 1-4-72, Cl. 418-131.

Dworkin, Darryl R.: See—
Fox, James H.; Dworkin, Darryl R.; and LeUng, Han Chung, 3,666,274.

Dworkin, Robert D.; and Stapfer, Christian H., to Carlisle Chemical Works, Inc. Synergistic stabilizer for halogenated resins and resin compositions stabilized therewith. 3,649,577, 3-14-72, Cl. 260-23.

Dworschack, Robert G.; and Nelson, Carolyn A., to Standard Brands Incorporated. Production of glucoamylase. 3,660,236, 5-2-72, Cl. 195-65.

Dworschack, Robert G.; and Lamm, William R., to Standard Brands Incorporated. Process for growing microorganisms. 3,666,628, 5-30-72, Cl. 195-80.

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Dwyer, Daniel E.: See—
Easton, Harry T.; and Dwyer, Daniel E., 3,682,650.

Dwyer, Daniel E., to General Foods Corporation. Process of freeze drying coffee. 3,653,929, 4-4-72, Cl. 99-199.

Dwyer, Francis G., to Mobil Oil Corporation. Production of synthetic faujasite. 3,642,434, 2-15-72, Cl. 23-113.

Dwyer, Howard I., Jr., to Amsted Industries Incorporated. Precompressed spring package. 3,670,873, 6-20-72, Cl. 206-46.00h.

Dwyer Instruments, Inc.: See—
Phillips, James W., 3,633,421.
Phillips, James W.; and Zoludow, Richard S., 3,645,140.
Phillips, James W., 3,675,481.
Phillips, James W.; and Winter, James R., 3,689,719.

Dwyer, James L.: See—
Post, Arthur H., Jr.; Polinsky, Ronald J.; and Dwyer, James L., 3,674,678.

Dwyer, John R., Jr.; and Karasa, Alvydas P., to Black and Decker Manufacturing Company, The. Baffle for electric lawn mower. 3,641,749, 2-15-72, Cl. 56-17.5.

Dwyer, Raymond J. Machine for making filled packages. 3,641,736, 2-15-72, Cl. 53-180.

Dwyer, Raymond J. Article feeding mechanism. 3,664,547, 5-23-72, Cl. 221-259.

Dwyer, Raymond J. Machine for embodying step by step rotary motion. 3,683,708, 8-15-72, Cl. 74-84.000.

Dyachkov, Nikolai Konstantinovich: See—
Mazalov, Nikolai Dmitrievich; Dyachkov, Nikolai Konstantinovich; and Gaponov, Dmitry Trdatovich, 3,631,949.

Dynamics Research and Manufacturing, Inc.: See—
Walker, Grant W.; Ford, Duane B.; Meinzer, Lester N.; and Larsen, Reid S., 3,695,583.

Dybalski, Jack N.; and Timmons, Robert D., to Armour Industrial Chemical Company, mesne. Method of incorporating fillers in cationic bituminous emulsions and products produced thereby. 3,689,297, 9-5-72, Cl. 106-280.000.

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Dybel, Frank R. Mechanical events counter. 3,694,630, 9-26-72, Cl. 235-92.0pk.

Dybvig, Douglas H., to Minnesota Mining and Manufacturing Company. Color printing. 3,649,332, 3-14-72, Cl. 117-38.

Dybvig, Douglas H.; and Koshar, Robert J., to Minnesota Mining and Manufacturing Company. Tris(difluoramino) acetamide. 3,654,361, 4-4-72, Cl. 260-561.

Dychdala, George Roman; and Cox, Robert James, to Pennwalt Corporation. Calcium hypochlorite manufacture. 3,645,005, 2-29-72, Cl. 34-22.

Dyche, James W., to Sylvania Electric Products, Inc. Handwriting authentication technique. 3,699,517, 10-17-72, Cl. 340-146.30q.

Dyck, F. Ben: See—
Sweet, Ralph; and Dyck, F. Ben, 3,658,133.

Dyck, Gerhard, to Dyckes Sprinkler Co. Ltd. Saddle-type tee connector. 3,645,566, 2-29-72, Cl. 285-197.

Dyck, Manfred F., to Cordis Corporation. Heparinization of plastic. 3,639,141, 2-1-72, Cl. 117-47.

Dyckerhoff & Widmann: See—
Finsterwalder, Ulrich; Finsterwalder, Klemens; and Stefaniak, Hans, 3,673,624.

Dyckerhoff & Widmann Kommanditgesellschaft: See—
Finsterwalder, Ulrich; and Finsterwalder, Klemens, 3,662,656.

Dyckerhoff Zementwerke Aktiengesellschaft: See—
Striebel, Wilhelm K.; and Loch, Werner, 3,656,979.

Dyckes Sprinkler Co. Ltd.: See—
Dyck, Gerhard, 3,645,566.

Dye, Charles M., Jr.: See—

Rainsberger, Paul J.; and Dye, Charles M., Jr., 3,702,394.

Dye, John I., to Du Pont de Nemours, E. I., and Company. Moisture responsive synthetic microporous sheet material. 3,663,266, 5-16-72, Cl. 117-76.

Dye, Russell J.: See—
Gethmann, Kenneth W.; and Dye, Russell J., 3,656,595.

Dye Trucking Company: See—
Preddy, L. V., Jr., 3,680,850.

Dyer, Dennis A.: See—
Evans, Vincent L.; and Dyer, Dennis A., 3,694,539.

Dyer, George A., to North American Rockwell Corporation. Two-step magnetic driver. 3,678,298, 7-18-72, Cl. 307-270.000.

Dyer, George A., to North American Rockwell Corporation. Frequency responsive multi-phase pulse generator. 3,694,758, 9-26-72, Cl. 328-63.000.

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Dyer, H. Daniel, III. Auxiliary lighting system. 3,675,038, 7-4-72, Cl. 307-66.000.

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Dyer, Lawrence D., to Texas Instruments, Incorporated. Production of semiconductor material. 3,647,530, 3-7-72, Cl. 117-201.

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Dyer, Lawrence Dean, to Texas Instruments, Incorporated. Method of obtaining phased growth of epitaxial layers. 3,698,944, 10-17-72, Cl. 117-201.000.

Dyer, Norman D.: See—
Mitchell, Joseph A.; and Dyer, Norman D., 3,633,767.

Dyer, Norman D., to Dresser Industries, Inc. Rotary torque indicator for well drilling apparatus. 3,664,184, 5-23-72, Cl. 73-136.00a.

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Dyett, Derek Henry: See—
Schorr, Murray Arnold; and Dyett, Derek Henry, 3,684,135.

Dyk, John W.; and Wu, Dao-Tsing, to Du Pont de Nemours, E. I., and Company. Vapor coalescence of powder coatings. 3,676,172, 7-11-72, Cl. 117-21.000.

Dykast, Jaroslav, to Vyzkumny Ustav Bavlarsky. Spinning machine. 3,698,175, 10-17-72, Cl. 57-58.890.

Dyke, Herbert Gordon. Clip. 3,663,994, 5-23-72, Cl. 24-11.

Dyke, Leslie Alexander, to Formmaster Limited. Stationery bonding apparatus. 3,655,491, 4-11-72, Cl. 156-459.

Dyke, Richard W.; and Sweeney, Martin J., to Lilly, Eli, and Company. Method of treating hyperuricemia. 3,705,946, 12-12-72, Cl. 424-279.000.

Dyke, Wilfred James Cecil: See—
Badcock, George Gerald; and Dyke, Wilfred James Cecil, 3,639,631.

Dykehouse, David B.; Okkonen, Oliver G.; and Zoodsma, Norman J., to Rowe International, Inc. Bill and coin changer. 3,690,332, 9-12-72, Cl. 133-2.000.

Dykes, Edward Henry: See—
Meyer, Dolph Allan; Phelps, Ross Leslie; Seidel, David Paul; Dykes, Edward Henry; Clipsham, Ian Sweet; Gray, Donald; and Ractivand, Theodore Demetrius, 3,636,686.

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Dykstra, Stanley J., to Mead Johnson & Company. Spiroindanylpiperidines. 3,654,287, 4-4-72, Cl. 260-293.62.

Dykzeul, Theodore J.: See—
Caparone, Michael J.; and Dykzeul, Theodore J., 3,648,726.
Caparone, Michael J.; Dykzeul, Theodore J.; Lynwood, Edward B.; and Braucksick, Henry C., 3,685,541.
McIntosh, Harold A.; Dykzeul, Theodore J.; Slocum, Gordon K.; Rattan, William D.; and Murrell, Donald K., 3,662,949.

Dyla, John F.; and Attfield, Robin A., to Lodge-Cottrell Limited. Electro-precipitators. 3,660,968, 5-9-72, Cl. 55-130.000.

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Dym, Herbert; Mazza, Robert V.; and Segar, Lawrence P., to International Business Machines Corporation. Triple-sample A/D converter. 3,662,377, 5-9-72, Cl. 340-347.

Dym, Herbert, to International Business Machines Corporation. Resistive grid graphic data tablet. 3,668,313, 6-6-72, Cl. 178-19.000.

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Dyment, John C.; and Ripper, Jose' E., to Bell Telephone Laboratories, Incorporated. Method of making Q-switched diode laser. 3,688,388, 9-5-72, Cl. 29-569.000.

Dymo Industries, Inc.: See—
Bremer, Georg Fritz, 3,664,477.
Johnson, Peter E., 3,650,059.
McCarthy, John P., 3,657,051.
McMahon, John, 3,637,060.

Morley, Ronald I.; Biernat, Raymond W.; and Smidt-Hayer, Arnold J., 3,688,112.

Morley, Ronald I.; Biernat, Raymond W.; and Smidt-Hayer, Arnold J., 3,702,400.

Morley, Ronald I.; Biernat, Raymond W.; and Smidt-Hayer, Arnold J., 3,707,435.

Dymoke-Bradshaw, Leslie E. Basil, to International Standard Electric Corporation. Microphone headsets. 3,692,958, 9-19-72, Cl. 179-156.00a.

Dymond, Joseph Francis. Footwear. 3,680,231, 8-1-72, Cl. 36-59.00r.

Dyna-Jet Corporation, The: See—
Gage, Frank H.; and Zabel, Marvin L., 3,674,211.

Dyna-Shield, Inc.: See—
Re, Carlo, 3,666,241.

Dyna-Shield, Inc., mesne: See—
Re, Carlo; Conrad, Earl O.; and Conrad, Jack R., 3,692,682.

Dynaco Inc.: See—
Hafler, David, 3,697,692.

Dynaflair Corporation Ltd.: See—
Labelle, Henri Marcel Robert, 3,654,982.

Dynagraphic Systems, Inc.: See—
Mielnikowski, Eugene F., Jr.; Kratoski, Frank L.; and La Morte, Gerardo M., 3,653,756.

Dynak, Inc.: See—
Griswold, Augustus W., 3,670,768.

Dynalectron Corporation: See—
Overholser, John S., 3,656,233.

Dynametric, Inc.: See—
Sessler, Donald R., 3,638,495.

Dynamic Corporation of America: See—
Swanke, Roy L.; and Raymond, Gordon H., 3,678,357.

Dynamic Precision Controls Corporation: See—
Van Ostrand, William F., 3,678,356.

Vanderbilt, Vern C., Jr.; Zimmer, Clarence L.; and Van Ostrand, William F., 3,691,824.

Dynamic Tools Ltd.: See—
Grante, Ralph; and Andre, Byron, 3,685,151.
Van Schaik, Gerard, 3,706,245.

Dynamic Typing Inc.: See—
Tishman, Abraham, 3,654,619.

Dynamics Corporation of America: See—
Cairelli, Carmen P., 3,656,718.
Check, Frank T., Jr., 3,681,933.
Conlon, William J., 3,668,490.
Kelley, Raymond F.; and Swanke, Roy L., 3,668,491.
Kelly, Edward T.; and McClain, Keith D., 3,685,428.
Massa, Frank, 3,638,052.
Smith, Peter B., 3,675,112.
Swanke, Roy L.; and Raymond, Gordon H., 3,678,288.
Swanke, Roy L.; Valbona, Bruno M.; and Samuelian, Maurice P., 3,689,999.
Valbona, Bruno M.; Emmons, Robert J.; and Samuelian, Maurice P., 3,667,084.
Valbona, Bruno M.; Conlon, William J.; and Voglesonger, Harry M., 3,695,006.
Voglesonger, Harry M., 3,665,373.

Dynamics Research and Manufacturing, Inc.: See—
Walker, Grant W.; Ford, Duane B.; and Meinzer, Lester N., 3,666,055.

Dynamics Research Corporation: See—
Bakewell, Joseph J., 3,703,450.
Ivers, Richard J.; and McDonough, William H., 3,641,565.
Wasserman, Seymour N., 3,693,023.

Dynamit Nobel Aktiengesellschaft: See—
Aus der Funten, Helmut; and Richtzenhain, Hermann, 3,654,339.
Becker, Franz, 3,698,315.
Beckmann, Rolf; and Schneider, Johannes, 3,658,636.
Behr, Erich, 3,663,492.
Behr, Erich, 3,673,153.
Bernhardt, Gunther; Buning, Robert; and Trautvetter, Werner, 3,692,502.

Berthmann, Adolf; Lingens, Paul; and Morhenn, Ernst, 3,648,614.

Beuschel, Helmut, 3,687,398.

Blumenfeld, Georg, 3,641,059.

Bucklich, Ludwig, 3,658,007.

Budich, Wolfgang; Theissen, Hans; Schaefer, Hans; and Andree, Walter, 3,703,063.

Buening, Robert, 3,663,519.

Buning, Robert; Diessel, Karl-Heinz; and Bier, Gerhard, 3,637,625.

Buning, Robert; Raalf, Hans; and Pungs, Wolfgang, 3,640,930.

Buning, Robert; Bernhardt, Gunther; Bierwirth, Egon; and Trautvetter, Werner, 3,647,402.

Dijkhuizen, Willem; Termin, Erich; Bleh, Otto; and Morgenstern, Dieter, 3,673,159.

Dijkhuizen, Willem; Termin, Erich; Bleh, Otto; and Morgenstern, Dieter, 3,674,716.

Elsner, Fritz; Becker, Franz; and Kolf, Heinrich, 3,638,767.

Feder, Ernst; Deselaers, Kurt; and Czechovsky, Gunther, 3,669,847.

Fischer, Wilhelm Anton, 3,687,437.

Fuchs, Otto, 3,640,918.

Fuchs, Otto, 3,655,426.

Fuchs, Otto, 3,667,997.

Fuchs, Otto, 3,681,270.

Gardziella, Arno, 3,699,187.

Gawlick, Heinz; and Stahlmann, Rudolf, 3,638,571.

Gawlick, Heinz; Marondel, Gunther; and Umbach, Hans, 3,641,935.

Gawlick, Heinz; and Bendler, Hellmut, 3,641,938.

Gawlick, Heinz; Bendler, Hellmut; and Hubsch, Gunther, 3,657,499.

Gawlick, Heinz; Bendler, Hellmut; and Hubsch, Gunter, 3,657,500.

Gawlick, Heinz; Marondel, Gunther; and Siegelin, Werner, 3,671,343.

Gawlick, Heinz; and Bendler, Hellmut, 3,675,533.

Gawlick, Heinz; Bendler, Hellmut; and Hubsch, Gunter, 3,703,121.

Gawlick, Heinz; Marondel, Gunther; Siegelin, Werner; and Ratz, Heinz, 3,707,411.

Hack, Peter; Hass, Karl; and Schinke, Georg, 3,679,383.

Heinzelmann, Walter; Flach, Karl-Egon; Vob, Alfred; and Kroschel, Heinz, 3,682,727.

Hillers, Theo, 3,647,607.

Hillers, Theo, 3,684,640.

Hulsmann, Hans Leo; Renckhoff, Gustav; and Pastura, Albino, 3,696,141.

Ismail, Roshdy, 3,657,398.

Ismail, Roshdy, 3,682,908.

Ismail, Roshdy, 3,687,952.

Ismail, Roshdy, 3,689,602.

Ismail, Roshdy, 3,704,279.

Jung, Karl-Heinz; and Gartner, Klaus-Gunther, 3,700,641.

Junger, Hans; and Weissenfels, Franz, 3,694,387.

Junghahnel, Rudolph; Renckhoff, Gustav; and Thewalt, Klaus, 3,639,601.

Junghahnel, Rudolph; Renckhoff, Gustav; and Thewalt, Klaus, 3,681,496.

Keddeinis, Heinrich; Lenz, Arnold; Bleh, Otto; and Termin, Erich, 3,682,828.

Kraemer, Bernhard, 3,634,550.

Krebsbach, Friedhelm; Osterhagen, Gerhard; and Oettel, Gunter, 3,635,639.

Labriola, Mario; and Vajna, Sandor, 3,645,673.

Langenhoff, Ferdinand; Termin, Erich; Bleh, Otto; and Lenz, Arnold, 3,684,433.

Lenz, Arnold; Bleh, Otto; and Termin, Erich, 3,657,361.

Leuck, Hans; and Kratz, Erich, 3,663,611.

Ludke, Wolfgang; and Roh, Peter, 3,682,096.

Meyer, Gunther, 3,697,493.

Ogirma, Masahiko; Kusumoto, Hazime; and Shinoda, Toshimitu, 3,687,744.

Osterhagen, Gerhard; Krebsbach, Friedhelm; and Wissinger, Waldemar, 3,632,732.

Osterhagen, Gerhard; Krebsbach, Friedhelm; and Wissinger, Waldemar, 3,635,505.

Prior, Josef; and Florin, Aloys, 3,634,155.

Prior, Josef; and Florin, Aloys, 3,688,702.

Psencik, Erich; Hermsdorf, Horst; and Vltavsky, Horst, 3,684,565.

Richter, Ulf, 3,672,033.

Richtzenhain, Hermann; and aus der Funten, Helmut, 3,646,126.

Rohde, Wilhelm; and Helfgen, Werner, 3,683,742.

Schade, Gerhard; and Blaschke, Franz, 3,651,018.

Schade, Gerhard; and Blaschke, Franz, 3,697,480.

Schneider, Johannes; and Pungs, Wolfgang, 3,646,156.

Schreiner, Gunther; and Stoetzer, Ernst-Joachim, 3,690,970.

- Seiler, Claus-Dietrich; Vahlensieck, Hans-Joachim; and Boje, Kurt, 3,706,776.
- Seiler, Claus-Dietrich; and Vahlensieck, Hans-Joachim, 3,706,777.
- Stephan, Rudolf; and Richtzenhain, Hermann, 3,707,574.
- Termin, Eric; and Ismail, Roshdy, 3,641,079.
- Termin, Erich; Bleh, Otto; and Lenz, Arnold, 3,652,617.
- Termin, Erich; Rogler, Walter; Joch, Wilhelm; and Honigschmid-Grossich, Rudiger, 3,679,724.
- Termin, Erich; and Bleh, Otto, 3,699,137.
- Umbach, Hans; and Jena, Hans, 3,669,580.
- Vollkommer, Norbert; Ismail, Roshdy; and Moustafa, Troidorf, 3,691,138.
- Wienand, Michael; Jensen, Klaus; Primessing, Franz; and Alfter, Franz-Werner, 3,679,531.
- Wittholz, Helge, 3,673,916.
- Dynaplastics, Inc., mesne: See—
- Neece, Roy M., 3,680,470.
- Dynarad, Inc.: See—
- Stoddard, James Fred; Orabona, Francis A.; and Dorval, Rodolphe A., 3,704,342.
- Dynasciences Corporation, mesne: See—
- Lanzaro, Andre, 3,638,883.
- Dynasort Corporation: See—
- Jackson, Aldrich L., 3,682,184.
- Jackson, Aldrich L., 3,687,264.
- Dynatech Corporation: See—
- Oberhauser, Charles J., 3,706,443.
- Wentworth, Ralph L.; and Armstrong, Glenn K., 3,687,684.
- Dynatherm Corporation: See—
- Peterson, Roger L., 3,642,531.
- Streb, Alan J., 3,662,542.
- Dynatron Research Corporation: See—
- Prahl, Helmut F.; and Hart, Frederick M., 3,704,271.
- Dynell Electronics Corporation: See—
- Hulland, Burton L., 3,689,925.
- Rademacher, Paul; and Hulland, Burton L., 3,680,116.
- Dynes, Robert Carr: See—
- Anderson, Philip Warren; Dynes, Robert Carr; and Fulton, Theodore Alan, 3,676,718.
- Dynes, Robert Carr; and Fulton, Theodore Alan, to Bell Telephone Laboratories, Incorporated. Magnetically controlled supercurrent switch. 3,706,064, 12-12-72, Cl. 338-32.00s.
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- Dyonics Inc.: See—
- Humphrey, William G., Jr.; and Rishton, Michael L., 3,699,950.
- Rishton, Michael L., 3,683,167.
- Dyre, Eddie L., to Carrier Corporation. Control system for multiple stage absorption refrigeration system. 3,651,655, 3-28-72, Cl. 62-103.
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- Dyrschka, Helmut: See—
- Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; Glaser, Hermann; and Dyrschka, Helmut, 3,637,819.
- Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; Glaser, Hermann; and Dyrschka, Helmut, 3,650,986.
- Dysart, Theodore R., to Dresser Industries, Inc. Borehole reamer-stabilizer with improved fluid circulation. 3,659,663, 5-2-72, Cl. 175-325.000.
- Dyshkant, Viktor Fedorovich: See—
- Niskovskikh, Vitaly Maximovich; Dyshkant, Viktor Fedorovich; and Kuznetsov, Leonid Georgievich, 3,685,571.
- Dyskin, Ernest Matveevich; Raevsky, Georgy Vladimirovich; Biletsky, Semen Mikhailovich; Burmenko, Eduard Jurievich; Grosman, Erikh Ruvimovich; Satanovsky, Abram Lazarevich; Kremnev, Oleg Alexandrovich; Zhuravlenko, Viktor Yakovlevich; and Protyshev, Boris Nikolaevich. Hollow tyre of rotary furnaces and method of equalizing tyre temperatures. 3,687,434, 8-29-72, Cl. 266-24.000.
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- Vagin, Alexei Alexeevich; Shalygin, Veniamin Nikolaevich; Shiborin, Viktor Ivanovich; Murakhver, Vladimir Ilich; and Sharov, Nikolai Grigorievich, 3,682,569.
- Vagin, Alexei Alexeevich; Yablonsky, Stanislav Valerievich; Voloshin, Petr Stepanovich; Sharov, Nikolai Grigorievich; Shiborin, Viktor Ivanovich; Novakovsky, Vladimir Efimovich; Kolpakov, Grigory Vasilievich; Ivanov, Mark Efremovich; Lindin, Viktor Mikhailovich; and Lipsky, Daniil Yakovlevich, 3,700,364.
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- Alexandrov, Adolf Moritovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Kantor, Ilya Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhanelidze, Vazna Venediktovich; Topolyanky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, 3,689,010.
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- Dziedziec, Jan. Electrical sensing device for measurement of liquid metal. 3,678,748, 7-25-72, Cl. 73-290.00r.
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- Terrill, James R.; and Dzierski, Stanley F., 3,680,200.
- Dzierzanowski, Frank J.: See—
- Haden, Walter L., Jr.; and Dzierzanowski, Frank J., 3,647,718.
- Haden, Walter L., Jr.; and Dzierzanowski, Frank J., 3,657,154.
- Haden, Walter L., Jr.; and Dzierzanowski, Frank J., 3,663,165.
- Sawyer, Edgar W., Jr.; and Dzierzanowski, Frank J., 3,694,202.
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- Reisacher, Josef; Noltemeyer, Friedrich; and Dziggel, Reiner, 3,674,000.
- Dziuk, Peter, to Staedtler, J. S. Vibration device. 3,660,860, 5-9-72, Cl. 15-94.
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- Dzus, Theodore, Jr., 3,656,466.
- Gunther, Conrad J., 3,688,352.
- Dzus, Theodore, Jr., to Dzus Fastener Co., Inc. Fastener element and assembly. 3,656,466, 4-18-72, Cl. 123-198.00e.
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- Cotter, John J.; and Abronson, Charles J., 3,684,983.
- E Z Painter Corporation: See—
- Pharris, John A.; and D'Ercole, Giacinto C., 3,638,271.
- E & M Laboratories: See—
- Cotter, John J., 3,662,291.
- E-C Corporation: See—
- Hashemi, Hadi T., 3,641,881.
- Pfenning, Dwight B.; and Brown, Robert L., 3,686,090.
- E-System, Inc.: See—
- Burkhardt, Jack L., 3,703,635.
- Deering, Charles S., 3,700,987.
- Gluth, Norman P., 3,703,609.
- E-System, Inc., mesne: See—
- Gershberg, David N.; and Lee, Alex Y., 3,703,722.
- Usry, Joe D., 3,700,209.
- Usry, Joe D., 3,703,185.
- E-Z Serve, Inc.: See—
- Schaffner, Myer J., 3,664,633.
- E-Z-Em Company, Inc.: See—
- Greene, Franklin R., 3,641,999.
- Eacho, William H., to Schulerich Manufacturing Co., mesne. Security camera with tape indicator. 3,637,300, 1-25-72, Cl. 352-121.
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- Eade, Ronald E.: See—
- Eade, Glen G.; and Eade, Ronald E., 3,659,576.
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- Eads, Ewin A., to Lamar State College of Technology. Sampling and analysis of sulfur compounds. 3,650,696, 3-21-72, Cl. 23-230.
- Eads, Harold L.: See—
- Robison, James W.; and Eads, Harold L., 3,676,930.
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- Gudelis, David A.; and Eagen, John F., 3,644,195.
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- Stimson, Allen G.; and Eagle, John H., 3,661,466.
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- Eagle, John H., 3,678,827.
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- Eagle Picher Industries, Inc.: See—
- Jurasek, Stanley J., 3,680,712.
- Eagle Range & Manufacturing Company: See—
- Voeke, Elmer E.; and Baltz, Albert L., 3,676,643.
- Eagle Range and Manufacturing Company: See—
- Baltz, Albert L.; and Voeke, Elmer E., 3,675,638.
- Eagle, Robert E.: See—
- Fono, Andrew; and Eagle, Robert E., 3,639,670.
- Eagle-Picher Industries, Inc.: See—
- Beal, Lawrence E.; Miller, Earl D.; and Craig, William R., 3,646,287.
- Broglid, Edward P., 3,653,973.
- Fitz, Edward J., 3,651,190.
- Fluesmeier, Arsdell L., 3,682,590.
- Fulton, Samuel R.; and Beal, Lawrence E., 3,687,780.
- Logan, Robert P., 3,676,281.
- McCullough, William N.; and Spracklen, Edwin E. (said McCullough assor. to), 3,669,748.
- Miller, Earl D., Jr.; and Kindy, Ronald J., 3,704,405.
- Schneider, Harry E.; and Plankenhorn, William J., 3,636,293.
- Eagle-Picher Industries, Inc., mesne: See—
- Hayes, Richard H., 3,637,318.
- Eagles, Alan Charles: See—
- Burgess, Anthony Joseph; Eagles, Alan Charles; and Steel, Margaret Lillian, 3,679,506.
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- Dodds, Thomas J., Jr.; Eagleson, Clegg; and Gibson, Harold F., 3,648,245.
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- Eakins, Paul W., to Foster Brothers Manufacturing Company. Sofa bed folding fixture. 3,636,572, 1-25-72, Cl. 5-13.
- Eames, Ronald W., to Chesterfield Tube Company Limited, The. Apparatus for use in forming shells from billets. 3,651,681, 3-28-72, Cl. 72-267.
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- Eargle, William R., to Westinghouse Electric Corporation. Hinge and latch mechanism for fluorescent luminaire. 3,697,743, 10-10-72, Cl. 240-147.000.
- Eargle, William R., Jr.: See—
- Johnson, James C.; and Eargle, William R., Jr., 3,634,681.
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- Earing, Mason H., to General Electric Company. Thermal-overload protective arrangement for inductive devices. 3,675,081, 7-4-72, Cl. 317-15.000.
- Earing, Mason H., to General Electric Company. Epoxy resin cement. 3,677,995, 7-18-72, Cl. 260-37.0ep.
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- Earl and Wright: See—
- Johnson, Edward P., 3,672,725.
- Earl, I. T. Desmond, to Textron Inc. Air cushion support space defining structure on stocksheet fabrication therefor. 3,690,401, 9-12-72, Cl. 180-124.000.
- Earl, William C.: See—
- Palmer, Ansell W.; and Earl, William C., 3,665,119.
- Earle, Clarence W., to Webster Spring Co., Inc. Compound spring assembly. 3,684,270, 8-15-72, Cl. 267-92.000.
- Earle, Ernest L., Jr.: See—
- Pitchon, Esra; and Earle, Ernest L., Jr., 3,655,399.
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- Dereich, John E.; Gleeson, James E.; and Earle, Glenn J., 3,693,548.
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- Earle, John Goodell: See—
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- Earle, William E.: See—
- Jordan, William E.; and Earle, William E., 3,660,769.
- Earles, Claude W.: See—
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- Haerther, Lester W.; and Earley, Joseph J., 3,637,958.
- Earlougher, Robert C., Jr., to Marathon Oil Company. Miscible-type recovery process using foam as a mobility buffer. 3,648,772, 3-14-72, Cl. 166-273.
- Earls, David: See—
- Cruger, Richard E.; Anderson, Wilmer C.; Earls, David; and Windebank, Robert W., 3,652,955.
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- Early, Judson H., to Domain Industries, Inc. Labeling machine. 3,664,222, 5-23-72, Cl. 83-205.000.
- Early, Robert E., to General Motors Corporation. Tube bender. 3,662,581, 5-16-72, Cl. 72-305.000.
- Early, Robert M.; and Raes, Maurice C., to Olin Corporation. Dielectrically heat sealable polyurethane foam. 3,674,718, 7-4-72, Cl. 260-2.5aq.
- Early, Roger: See—
- Midulla, Giuseppe, 3,699,046.
- Earnest, Elmer Dean: See—
- Bock, Robert V.; Rehhauser, Frederick; Earnest, Elmer Dean; Gerbstadt, Frederick H.; and White, James A., 3,654,621.
- Rehhauser, Frederick V.; Earnest, Elmer Dean; Bock, Robert V.; Gerbstadt, Frederick H.; and Monek, James J., 3,665,421.
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- Stevens, Douglas N.; Bisque, Ramond E.; and Bloom, Duane N., 3,644,094.
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- Fullerton, George W., 3,678,795.

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Eason, John W., Jr.: See—
Edwards, John W.; Eason, John W., Jr.; Chapman, Adrian R.; and Clavel, Emerson M., 3,646,741.

Easoz, Robert D., to North American Rockwell Corporation. Composite fountain blade construction for remote ink control system. 3,699,888, 10-24-72, Cl. 101-365.000.

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East Ohio Gas Company, The: See—
Reschke, Albert H.; Dick, James E.; and Bose, Orrin E., 3,659,574.

East, Victor. Symmetrical golf club head with center of gravity coincident with geometric center. 3,693,978, 9-26-72, Cl. 273-167.00f.

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McMurtrie, Charles Louis, 3,638,037.

Eastech Limited: See—
Sircom, Richard Cumming, 3,670,206.

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Easterly, Donald O.; and Olcott, Raymond E., to Eastman Kodak Company. Cinematographic projector having a film supply spindle assembly. 3,664,608, 5-23-72, Cl. 242-204.000.

Easterly, James P.: See—
Majewski, Theodore E.; and Easterly, James P., 3,689,536.
Wang, Chun-Shan; and Easterly, James P., 3,655,678.

Eastern Company, The: See—
Ogg, Robert D., 3,646,421.
Pastva, John V., 3,695,661.

Eastern Products Corporation: See—
Olivari, Humbert, 3,643,288.
Roles, David Jack, 3,677,589.

Eastern Time Limited: See—
Lee, Admond K.; and Wong, Kwok-Ming, 3,678,679.

Easterwood, Carl W. Drag saw. 3,692,073, 9-19-72, Cl. 143-133.00d.

Eastham, Jerome F.: See—
Kamienski, Conrad W.; and Eastham, Jerome F., 3,646,231.

Eastham, John Frederick, to Tracked Hovercraft Limited. Linear induction motor stator. 3,644,762, 2-22-72, Cl. 310-13.

Eastler, William E., Jr., to Itek Corporation. Transparent imaging medium. 3,700,437, 10-24-72, Cl. 96-8.000.

Eastman, Dean E.; Holtzberg, Frederic; and Methfessel, Siegfried I. Rare earth chalcogenide thermionic emission cathodes. 3,636,399, 1-18-72, Cl. 313-346.

Eastman, Donald R.: See—
Carlson, Ernest C.; Howells, Arthur J., Jr.; Jennings, Marvin D.; Eastman, Donald R.; and Sheets, Edward G., 3,698,580.

Eastman, Hal P., to International Business Machines Corporation. Information retrieval system and method. 3,676,851, 7-11-72, Cl. 340-172.500.

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Eastman Kodak Company: See—
Abbott, Thomas I., 3,698,896.
Agnone, John L.; Fister, Robert V.; and Sheppard, Jon C., 3,703,585.
Ainslie, Dianne B.; and Crapsey, Arthur H., Jr., 3,690,235.
Albers, Kenneth H.; Blood, Alden E.; and Snapp, Thomas C., Jr., 3,652,501.
Albers, Kenneth H.; and Snapp, Thomas C., Jr., 3,699,165.
Albert, Donald J., 3,651,838.
Albert, Donald J., 3,671,121.
Almstead, James L., 3,705,763.

Alsop, Michael J.; and Guevara, Alfredo R., 3,647,446.

Alsop, Michael J.; and Guevara, Alfredo Ruben, 3,703,373.

Altmann, Conrad, 3,672,765.

Altmann, Conrad, 3,702,108.

Ames, Stanley R., 3,639,587.

Ammons, Robert L.; and Moore, Robert B., Jr., 3,664,114.

Andler, Richard C.; and Keck, Harley B., 3,679,518.

Andrews, Peter, 3,670,989.

Arcesi, Joseph A.; and Rauner, Frederick J., 3,640,722.

Austin, Richard C.; Traub, Robert A.; and Rengert, Joseph S., 3,658,271.

Babcock, David L.; and Lederer, David B., 3,657,987.

Bacon, Robert Elwin, 3,650,753.

Bacon, Robert Elwin; Perry, Ernest John; and Jones, Evan Thomas, 3,690,888.

Bailey, Joseph, 3,705,896.

Baptista, John L.; Rauner, Frederick J.; and Ford, John A., Jr., 3,699,135.

Baptista, John L., 3,705,802.

Barbehenn, Herbert S.; and Williams, Robert F., Jr., 3,666,585.

Barbehenn, Herbert S.; Irizarry, James Michael; and Leszyk, Gerald Martin, 3,682,639.

Barbier, Jean-France Leon Paul; and Renard, Guy, 3,679,424.

Barkey, Kenneth T.; Hunter, C Shelburn; and Predmore, Walter L., Jr., 3,644,573.

Barkey, Kenneth T.; and Laird, Lloyd I., 3,651,172.

Barr, Charles R.; Williams, John; and Whitmore, Keith E., 3,701,783.

Bartles, Edward C.; and Matthews, William R., 3,642,131.

Bartles, Edward C.; and Fraim, Raymond A., 3,706,339.

Bass, Jon Dolf, 3,647,439.

Beach, David E., 3,661,063.

Beach, David E., 3,687,033.

Beach, David E., 3,703,132.

Beavers, Dorothy J.; Staudenmayer, William J.; and Perry, Edmond S., 3,632,338.

Bello, Hobson J.; and Holtz, Carl F., 3,705,799.

Bent, Richard L.; and Mowrey, Rowland G., 3,656,950.

Bent, Richard L.; and Mowrey, Rowland G., 3,658,525.

Bevington, Richard E., Jr., 3,648,336.

Bevis, Michael J.; Bello, Hobson J.; and Holtz, Carl F., 3,705,803.

Bhullar, Pushpinder S.; and Wright, Robert A., 3,646,353.

Bideau, Max A.; Chauveton, Charles E.; Fruchard, Alain; and Laurens, Marc, 3,692,524.

Bishop, John F.; Hunter, Walker F., Jr.; and Rowley, Martin E., 3,677,790.

Bissonette, Vernon L.; and Miller, Jerry B. (said Bissonette as-
sor. to), 3,671,244.

Blaisdell, William H.; Cornelius, Edward C.; and Emerson, Howard J., 3,663,824.

Blaisdell, William H.; and Cornelius, Edward C., 3,675,016.

Bloom, Melvin S.; and Merrill, Stewart H., 3,660,083.

Bojara, Stanley M.; and deMauriac, Richard A., 3,667,959.

Boon, Joseph L., 3,663,748.

Borden, Douglas G.; Unruh, Cornelius C.; and Merrill, Stewart H., 3,647,444.

Borel, Robert J.; Corey, Leonard S.; Rucharski, Thaddeus W.; Stocking, John L.; and Thomas, Frederick H., 3,706,406.

Bowers, Daniel G., 3,641,297.

Bowman, Wayne A., 3,702,249.

Boyd, Carl L., 3,668,621.

Boyer, Simone L.; and Caridi, Roger, 3,676,147.

Bracken, Thomas W., 3,699,834.

Bradford, James C.; Miller, Stephen H.; and Robertson, Jeffrey C., 3,700,188.

Brandon, Kenneth F., 3,691,888.

Brantly, Thomas B.; Contois, Lawrence E.; and Fox, Charles J., 3,658,520.

Braut, Albert T.; and Bissonette, Vernon L., 3,642,478.

Braut, Albert T.; and Bissonette, Vernon L., 3,655,382.

Bredoux, Francois-Jean-Marie; and Garcia, Rene Fernand Pierre, 3,661,574.

Bresson, Richard J.; and Dierks, James E., 3,650,489.

Bresson, Richard J.; and Panton, Richard C., 3,664,245.

Brewer, Waldo L.; and Laukaitis, Joseph F., 3,700,320.

Brooker, Leslie G. S.; and Van Lare, Earl J., 3,632,808.

Brooker, Leslie G. S.; Daniel, Daniel S.; and Taber, Robert C., 3,639,127.

Brooker, Leslie G. S.; Fumia, Arthur, Jr.; and Heseltine, Donald W., 3,652,289.

Brooker, Leslie G. S.; and Fumia, Arthur, Jr., 3,672,906.

Brooker, Leslie G. S.; and Van Lare, Earl J., 3,684,517.

Brown, Barry M.; and Ray, Elbert L., 3,701,431.

Brown, Morris E., 3,707,599.

Brown, Robert A., 3,657,919.

Brozek, Carl T., 3,654,231.

Bruton, John M., 3,669,375.

Bundschuh, John J., 3,648,952.

Bundschuh, John J., 3,672,601.

Bundschuh, John J.; Roman, Robert J.; and Thomson, Kenneth W., 3,703,333.

Burness, Donald M.; and Wright, Charles J., 3,642,486.

Burness, Donald M.; and Looker, Jerome J., 3,681,372.

Burnham, William L., 3,700,186.

Bush, Walter M., 3,647,436.

Bushnell, Clifford B., 3,645,385.

Cain, William J.; and Crough, Paul E., 3,684,512.

Caldwell, John R., 3,657,193.

Caldwell, John R.; and Jackson, Winston J., Jr., 3,657,389.

Carter, Daniel E.; Lederer, David B.; and Perlman, David E., 3,651,324.

Carter, Edward H., Jr.; Park, Vernon K.; and Seeger, Horst K., 3,674,765.

Cartwright, Randle Velore, 3,707,138.

Cator, Edward J.; and Martin, William A., 3,647,125.

Cawley, John Duval; and Faber, Jan Willem Hendrik, 3,705,136.

Chandler, Jasper S., 3,655,472.

Chandler, Jasper S., 3,656,384.

Chang, Elizabeth Puiiu, 3,672,903.

Chapman, Derek D.; and Brooker, Leslie G. S., 3,649,266.

Chapman, Derek D., 3,653,897.

Clarke, Gerard J.; and Rowley, Martin E., 3,645,938.

Cohen, Hyman, 3,639,357.

Cohen, Hyman L., 3,640,720.

Cohen, Hyman L., 3,687,698.

Cole, Harold E., 3,635,707.

Cole, Harold E., 3,672,272.

Collet, Pierre Daniel; and Clero, Guy, 3,655,387.

Colt, Ralph C.; and Seil, Kenneth F., 3,647,499.

Combs, Robert L.; and Bogan, Richard T., 3,668,157.

Conant, Dale H., 3,704,124.

Contois, Lawrence E.; and Merrill, Stewart H., 3,652,269.

Contois, Lawrence E.; Merrill, Stewart H.; and Grau, George S., 3,655,378.

Contois, Lawrence E., 3,671,233.

Contois, Lawrence Edward, 3,647,433.

Contois, Lawrence Edward, 3,658,521.

Cooley, Austin C., 3,634,088.

Cooley, Austin C., 3,655,753.

Cooley, Austin C., 3,700,450.

Coover, Harry W., Jr.; and Shields, Donald J., 3,639,332.

Cossar, Bernard C.; and Reynolds, Delbert D., 3,671,259.

Crapsey, Arthur H., Jr., 3,631,786.

Crayton, Bruce E., 3,658,416.

Cristy, Albert B.; and Kachioff, Yuval, 3,695,424.

Cullen, Robert E., 3,641,503.

Cumbo, Peter E.; Hart, James L.; Kao, Peter T.; and Negus, George T., 3,687,751.

Czarnikow, George K., 3,667,843.

Czerkas, Alfred E.; and Kenyon, Roger B., 3,663,683.

Danielson, Arthur Daniel; Klier, Lyle Charles; and O'Brien, John D., 3,645,735.

Dann, John Robert; Fowler, William Frank, Jr.; and Gross, Susan Cook, 3,660,521.

Dann, John Robert; and Fowler, William Frank, Jr., 3,666,476.

De Boer, Charles D.; and Luckey, George W., 3,677,763.

De Groot, Gerald H., 3,651,749.

De Mauriac, Richard A., 3,672,904.

De Mauriac, Richard A.; and Hiller, Gary Lynn, 3,679,422.

De Palma, James J.; Morrison, Edward D.; and Williams, Robert F., 3,682,530.

DeMeyer, Dennis E.; and Allen, Frank D., 3,647,448.

DePalma, James J., 3,655,262.

Devaney, Mark J., Jr., 3,700,908.

Diaz, Juan C.; and Mears, Robert A., 3,652,725.

Dibble, Merton L.; and Morehead, Edward A., 3,656,383.

Dierks, James E., 3,677,152.

Dietl, Hans K.; and Young, Howard S., 3,700,701.

Dittmar, John H., 3,642,346.

Dixon, Ronald L., 3,678,941.

Dostes, Claude Guy, 3,671,254.

Dotson, Billy R.; and Williams, Robert F., Jr., 3,637,418.

Dotson, Billy R.; Schrader, Robert W.; Twomey, Marilyn A.; and Williams, Robert F., Jr., 3,705,148.

Drexler, Rodger A.; and Altmann, Conrad, 3,703,395.

Droke, Joseph W.; Hataway, James E.; and Russin, Nicholas C., 3,669,921.

Ducksbury, Alfred N.; and Telford, Bruce C., 3,681,205.

Dunham, Kenneth R.; Fields, Donald L.; Borden, Douglas G.; and Miller, Jerry B., 3,637,644.

Dunham, Kenneth R.; Newcomb, Richard A.; and Yost, Marshall E., 3,702,766.

Eagle, John H., 3,631,782.

Eagle, John H., 3,678,827.

Earhart, Howard F.; Jacoby, Frederick J.; and Starck, Clemmens B., 3,635,855.

Easterly, Donald O.; and Brown, Morris E., 3,664,605.

Easterly, Donald O.; and Olcott, Raymond E., 3,664,608.

Eckerdt, George H., 3,648,530.

Edelman, Robert I.; and Edwards, Evan A., 3,683,780.

Edwards, Evan A.; and Van Duzer, Richard H., 3,705,696.

Egan, John F., 3,662,972.

Eldredge, Carl H.; and Mee, John D., 3,674,782.

Eldridge, Merle K.; Bloom, Roy C.; and Joseph, Douglas C., 3,671,248.

Elins, Herbert S.; and Van Meter, James P., 3,698,901.

Ericson, Ronald Harris, 3,706,565.

Ernisse, Paul J., 3,696,723.

Etter, Doyle O.; and Parrinello, Anthony J., 3,650,742.

Ettischer, Helmut; and Lieser, Ernst, 3,661,066.

Ettischer, Helmut, 3,677,156.

Ettischer, Helmut, 3,685,408.

Ettischer, Helmut, 3,690,236.

Evans, Francis J., 3,667,958.

Ewald, William P., 3,651,745.

Ewald, William P., 3,682,065.

Faber, Jan Willem Hendrik, 3,634,185.

Fairbanks, Charles W.; and Rosecrants, William J., Jr., 3,690,892.

Fassbender, Henry J.; and Case, Nelson S., 3,667,951.

Fassbender, Henry J., 3,667,952.

Feichtinger, Carl A., 3,642,223.

Ferris, James E., 3,705,664.

Fessenden, John Rice, 3,645,388.

Fisher, John G.; and Coates, Clarence A., Jr., 3,634,391.

Foor, Sanford Wayne; and Egan, John F., 3,680,755.

Foot, James C., Jr., 3,707,221.

Ford, John A., Jr.; and Wilson, Charles V., 3,661,899.

Ford, John A., Jr.; McConkey, Robert C.; and Laakso, Thomas M., 3,677,754.

Fowler, William Frank, Jr.; and Klose, Gerhard, 3,681,127.

Fox, Charles J.; and Johnson, Arthur L., 3,705,913.

Fox, Charles J.; and Light, William A., 3,706,554.

Francis, Richard H., 3,680,529.

Frank, Lee F., 3,659,348.

Frank, Lee F.; and Alley, George W., II, 3,660,656.

Frank, Lee F., 3,698,100.

Frank, Lee Fitzpatrick, 3,638,016.

Frank, Lee Fitzpatrick, 3,680,954.

Frank, Lee Fitzpatrick, 3,694,800.

Fulkerson, Brazelton; and Mench, John W., 3,645,744.

Fulkerson, Brazelton; and Mench, John W., 3,653,935.

Fumia, Arthur, Jr.; and Heseltine, Donald W., 3,652,288.

Fumia, Arthur, Jr.; and Brooker, Leslie G. S., 3,655,392.

Fumia, Arthur, Jr.; Heseltine, Donald W.; and Brooker, Leslie G. S., 3,671,648.

Gabrielsen, Rolf S.; and Olivares, Ismael A., 3,672,896.

Gabrielsen, Rolf S.; and Olivares, Ismael A., 3,690,872.

Gabrielsen, Rolf S.; and Olivares, Ismael A., 3,700,442.

Garbe, William F., 3,649,808.

Gardner, Ray E., 3,647,599.

Gardner, Ray E.; Voelckers, William W.; and Negus, George T., 3,661,667.

Garth, Leonid G., 3,676,183.

Gates, John W.; and Musliner, Walter J., 3,658,835.

Gates, John W., Jr.; Wise, Albert W.; Beavers, Dorothy J.; and Miller, Paul E., 3,641,046.

Gates, John W., Jr.; and Beavers, Dorothy J., 3,650,760.

Gaugh, Wilbur S., 3,687,675.

Gerhardt, James S., 3,660,139.

Gibbons, Carl B.; Kerr, William C.; and Maddocks, Roger H., 3,702,258.

Gilman, Paul B., Jr., 3,649,272.

Gilman, Paul B., Jr.; and Bass, Jon D., 3,706,569.

Gilman, Paul Brewster, Jr., 3,650,758.

Gilson, Richard E.; and Rauner, Frederick J., 3,647,447.

Gnage, Oliver W., 3,658,321.

Gnage, Oliver W.; and Connelly, Gordon F., 3,670,868.

Gnage, Oliver W., 3,698,602.

Goffe, Charles A., 3,666,477.

Goldman, Martin; and Johnson, Arthur L., 3,647,429.

Gompf, Thomas E.; and Lum, Kin Kwong, 3,698,897.

Gordon, Robert A., 3,640,204.

Graham, James Leo, 3,687,707.

Gramza, Eugene P.; and Schreiber, David D., 3,671,240.

Grant, Peter M.; Fulkerson, Brazelton; and Mench, John W., 3,697,640.

Gray, Theodore F., Jr.; Weaver, James C.; and Combs, Robert L., 3,639,424.

Gray, William C., Jr., 3,679,413.

Greco, Edgar J.; Blair, Gerald E.; and Rindone, Guy E., 3,690,908.

Greiller, Jack F., 3,632,403.

Greiller, Jack Francis, 3,632,374.

Grisdale, Patrick J., 3,694,462.

Groet, Nicholas H.; and Salminen, Wilho M., 3,703,375.

Gruchmann, Frank P.; and Connelly, Gordon F., 3,656,597.

Guestaux, Claude; Leaute, Jean; Virey, Claude; and Vial, Jacques, 3,658,573.

Guite, Joseph D., Sr., 3,635,139.
 Guyette, Franklin L.; and Frank, Donald R., 3,700,323.
 Haefner, John A.; and Gilman, Paul B., Jr., 3,653,899.
 Haefner, John A., 3,706,568.
 Hagemeyer, Hugh J., Jr.; and Edwards, Marvin B., 3,639,515.
 Hagemeyer, Hugh J., Jr.; and Robinson, Alfred G., III, 3,671,550.
 Hagemeyer, Hugh J., Jr.; and Goss, Harry F., 3,671,603.
 Hagemeyer, Hugh J., Jr.; and Park, Vernon K., 3,679,775.
 Hagemeyer, Hugh J., Jr.; Hogan, Harold E.; and Johnson, Sam H., Jr., 3,701,760.
 Hagemeyer, Hugh John, Jr.; and Etter, Raymond Lewis, Jr., 3,634,546.
 Hahn, Paul Timothy, 3,679,600.
 Haist, Grant M.; King, James R.; and Pupo, David A., 3,647,453.
 Haist, Grant M.; and Humphlett, Wilbert J., 3,649,279.
 Haist, Grant M.; and Humphlett, Wilbert J., 3,669,670.
 Hamb, Fredrick Lynn, 3,634,089.
 Hamlin, David R.; and Torpey, William A., 3,679,116.
 Hampton, Robert W., 3,654,844.
 Hamed, William L., 3,677,476.
 Harter, James E.; and Rodriguez, Juan A., 3,698,809.
 Harvey, Donald M.; and Inglis, George M., 3,636,840.
 Harvey, Donald M., 3,636,845.
 Harvey, Donald M., 3,649,113.
 Harvey, Donald M., 3,653,762.
 Harvey, Donald M., 3,665,831.
 Harvey, Donald M., 3,665,832.
 Harvey, Donald M., 3,668,992.
 Harvey, Donald M.; and McConaughy, Randall T., 3,672,267.
 Harvey, Donald M., 3,673,939.
 Harvey, Donald M., 3,673,940.
 Harvey, Donald M., 3,677,160.
 Harvey, Donald M., 3,680,453.
 Harvey, Donald M., 3,689,140.
 Harvey, Donald M., 3,691,920.
 Harvey, Donald M.; and Michater, Chester W., 3,693,521.
 Harvey, Donald M., 3,693,526.
 Harvey, Donald M., 3,699,586.
 Harvey, Donald M., 3,703,134.
 Harvey, Donald M., 3,706,267.
 Harvey, James E., 3,669,553.
 Harvey, James Edward, 3,694,079.
 Heaney, Paul R.; and Strubel, Gad E., 3,639,048.
 Hendess, Raymond W.; and Gilmour, Hugh S. A., 3,647,452.
 Hendrickson, Thomas N., 3,705,716.
 Henry, James William, 3,676,401.
 Herberger, Robert J., 3,687,036.
 Hermle, Paul A.; and Payne, Philip A., 3,654,034.
 Heseltine, Donald W., 3,637,676.
 Heseltine, Donald W.; and Lincoln, Lewis L., 3,642,786.
 Heseltine, Donald W.; and Eldredge, Carl H., 3,706,555.
 Hester, Robert; and Pierson, Howard P., 3,703,347.
 Hickey, Lionel R.; and McCune, Ellsworth J., 3,659,109.
 Hickey, Lionel R.; and Guyette, Frank L., 3,698,805.
 Hickey, Lionel Russell, 3,700,906.
 Hiller, Gary L., 3,649,289.
 Hiller, Gary L.; Ulbing, Cynthia Geer; and Starr, John E., 3,695,888.
 Hiller, Gary L., 3,706,567.
 Hillson, Peter J.; and Ridgway, Michael, 3,632,343.
 Hillson, Peter John; and Ridgway, Michael, 3,700,448.
 Hochreiter, William T., 3,646,864.
 Hodges, Howard T., 3,635,554.
 Hodges, Howard T., 3,649,115.
 Hollister, Kenneth Robert; and Perry, Ernest John, 3,679,425.
 Hollister, Kenneth Robert; Perry, Ernest John; and Dappen, Glen Marshall, 3,706,564.
 Holstead, Colin, 3,647,432.
 Holtz, Carl F., 3,705,801.
 Hood, James D.; and Stranch, James G., 3,654,198.
 Hooker, Richard, III, 3,702,275.
 Horton, William H., 3,672,813.
 Houle, Conrad G.; and Masseth, Thomas J., 3,671,251.
 Houle, James F.; and VanNorman, Gilden R., 3,634,087.
 Houle, James F.; and Van Norman, Gilden R., 3,694,251.
 Howard, Dwight Thomas, 3,660,670.
 Huboi, Robert W.; Waz, Edward M.; and Seckel, Thomas G., 3,644,664.
 Huboi, Robert W.; Riley, Terry E.; and Rising, Bradley D., 3,694,074.
 Huffaker, James E.; Myers, Ernest L.; Dillon, Brian D.; and Dolen, Cecil W., 3,695,573.
 Humphriss, Wesley D.; and Bartlett, Lawrence C., 3,640,708.
 Humphriss, Wesley D.; and Bartlett, Lawrence C., 3,684,503.
 Hunter, Clarence S., 3,647,454.
 Hunter, Walker F.; and McCabe, John M., 3,702,250.
 Huschle, Peter; and Ettischer, Helmut, 3,678,838.
 Illingsworth, Bernard D., 3,632,340.
 Illingsworth, Bernard D., 3,655,394.

Inglis, George M., 3,677,631.
 Jackson, Winston J., Jr.; and Caldwell, John R., 3,644,267.
 Jackson, Winston J., Jr.; Kuhfuss, Herbert F.; and Caldwell, John R., 3,644,574.
 Jackson, Winston J., Jr.; Caldwell, John R.; and Kuhfuss, Herbert F., 3,652,502.
 Jackson, Winston J., Jr.; and Caldwell, John R., 3,654,232.
 Jackson, Winston J., Jr.; and Watson, Marshall T., 3,670,489.
 Jackson, Winston J., Jr.; Kuhfuss, Herbert F.; and Caldwell, John R., 3,684,766.
 Jackson, Winston J., Jr., 3,703,495.
 Jacoby, Frederick J.; Hamb, Frederick L.; and Trent, Lewis C., 3,658,541.
 James, Claire L., 3,640,198.
 James, Thomas H., 3,632,348.
 Jarvis, James G., 3,646,351.
 Jarvis, James G., 3,673,961.
 Jaskowsky, Jorg, 3,639,060.
 Jeffreys, Roy A.; and Gloag, Elizabeth A., 3,637,395.
 Jeffreys, Roy A.; and Mellows, Susan M., 3,672,905.
 Jeffreys, Roy A.; and Thomas, David A., 3,674,493.
 Jenkins, Philip W.; and Brooker, Leslie G. S., 3,681,081.
 Jenkins, Philip W., 3,694,216.
 Jenkins, Philip W.; Heseltine, Donald W.; and Mee, John D., 3,699,025.
 Jensen, Einar W., 3,699,869.
 Johnson, Arthur Lee, 3,681,068.
 Johnson, Robert B., 3,671,113.
 Johnson, Robert B., 3,677,455.
 Johnson, Robert B.; and Kim, Thomas G., 3,677,498.
 Johnson, Sam H., Jr.; and Wright, Howard N., Jr., 3,700,726.
 Johnson, Sam H., Jr.; Mears, Robert A.; and Park, Vernon K., 3,700,758.
 Jones, Evan T., 3,644,119.
 Jones, Evan Thomas, 3,664,839.
 Joyner, Frederick B.; Cash, George O., Jr.; and Meyer, Max F., Jr., 3,697,465.
 Jungjohann, Vernon H.; and Hagin, John D., 3,664,736.
 Kamp, Leonard F., 3,636,844.
 Kamp, Leonard F., 3,648,527.
 Kasper, George P., 3,679,421.
 Kellogg, Lillian M., 3,681,077.
 Kellogg, Lillian M.; and Liebert, Nancy B., 3,685,997.
 Kindig, Edwin Guilford, 3,705,541.
 Kindig, Guilford Edwin, 3,690,239.
 Kindig, Guilford Edwin, 3,699,862.
 Kindig, Guilford Edwin, 3,702,095.
 King, James L.; and Arrington, Lee O., 3,677,641.
 King, James R.; and Haist, Grant M., 3,649,280.
 Klanderman, Bruce H.; and Faber, Jan W. H., 3,678,072.
 Klein, William C., 3,653,759.
 Knechel, William F., 3,700,453.
 Knowles, Frederick G.; and Taylor, Clarence R., 3,672,593.
 Knowles, Frederick G.; and Taylor, Clarence R., 3,677,487.
 Knowles, Frederick G.; and Taylor, Clarence R., 3,679,298.
 Knowles, Frederick G., 3,680,952.
 Knowles, M. B.; and Winebarger, Charles S., 3,642,722.
 Kryman, Frederick J., 3,679,406.
 Kryman, Frederick J.; and Staudenmayer, William J., 3,679,408.
 Kunz, Patrick; Pfaff, Maurice Edgar; and Roman, Pierre Amedee, 3,658,527.
 Kurz, Richard Karl, 3,672,895.
 Kurz, Richard Karl, 3,672,900.
 Laakso, Thomas M., 3,702,765.
 Laisney, Alexis D., 3,700,218.
 Lake, Alvin E., Jr.; and Mercer, Allen C., 3,693,021.
 Lane, William S., 3,705,800.
 Lappin, Gerald R.; and McConnell, Wayne V., 3,644,485.
 Lareau, Norman N., 3,703,272.
 Lauderback, Jarvis K.; and Converse, George F., 3,634,015.
 Lentz, Allen R., 3,649,832.
 Lercher, John S.; and Moore, Lester C., 3,648,942.
 Lestina, Gregory James; and Stern, Max Herman, 3,698,909.
 Leutwein, Manfred; and Streicher, Heinz, 3,671,116.
 Leutwein, Manfred; and Streicher, Heinz, 3,702,697.
 Lewis, Alan E.; and Voigt, Frederick W., Jr., 3,644,096.
 Lewis, Alan E.; and Voigt, Frederick W., Jr., 3,651,125.
 Lewis, Alan E.; and Voigt, Frederick W., Jr., 3,676,485.
 Lincoln, Lewis L.; and Heseltine, Donald W., 3,679,427.
 Lindholm, Robert D., 3,700,458.
 Lindsay, Douglas J., 3,670,638.
 Looker, Jerome J.; and Fox, Charles J., 3,677,752.
 Loose, Guenter H., 3,683,736.
 Loria, Anthony, 3,644,498.
 Loveday, Thomas E., 3,694,675.
 Luckey, George W., 3,650,976.
 Luckey, George W., 3,668,143.
 Luckey, George W., 3,695,881.
 Luckey, George William, 3,668,142.
 Luckey, George William; and Sherwood, Charles Frederick, 3,705,858.

MacDonald, William A., Jr., 3,651,782.
 MacDonald, William A., Jr., 3,677,632.
 Mack, Richard C.; Lejnicks, George; and Morrison, Edward D., 3,647,619.
 Malkiewicz, Matthew F., 3,650,612.
 Malloy, Richard J., 3,647,449.
 Martin, William A.; and Bielicki, Marvin S., 3,641,282.
 Martin, William Allen, 3,672,751.
 Martinson, Lawrence E.; Rauner, Frederick J.; and Gilson, Richard E., 3,707,373.
 Matoushek, Robert J., 3,658,228.
 McCall, Marvin A., 3,647,750.
 McConnell, Richard L., 3,658,948.
 McConnell, Wayne V.; Bond, James H.; and Russin, Nicholas C., 3,663,600.
 McCune, Ellsworth J., 3,697,174.
 McGraw, Carl W., 3,655,407.
 McGuckin, Hugh G., 3,681,066.
 McIntire, John M.; and Wicker, Thomas H., Jr., 3,654,239.
 McNally, James G., Jr.; and Goffe, Charles A., 3,649,275.
 McNally, James G., Jr., 3,679,415.
 Melech, Charles J., 3,692,386.
 Mengel, Lloyd A., 3,688,399.
 Merrill, Stewart H.; and Olson, James R., 3,694,359.
 Merrill, Stewart H., 3,653,887.
 Merrill, Stewart H., 3,669,859.
 Merrill, Stewart H., 3,703,371.
 Merrill, Stewart H., 3,703,372.
 Metzger, Lenard M., 3,651,254.
 Metzger, Lenard M.; Bresson, Richard J.; and McConaughy, Randall T., 3,662,659.
 Metzger, Lenard M., 3,664,735.
 Meyer, Max F., Jr.; Combs, Robert L.; and Wooten, Willis C., Jr., 3,701,741.
 Michatek, Chester W.; and Harvey, Donad W., 3,673,938.
 Miller, Howard A., 3,632,512.
 Miller, Howard A., 3,664,857.
 Miller, Stephen H., 3,670,616.
 Miller, Warren J., 3,690,918.
 Milton, Kirby Mitchell, 3,697,281.
 Mindler, Fredric A.; and Pickering, Charles E., 3,659,798.
 Minsk, Louis Morton; Cohen, Hyman L.; and Frauenglass, Elliott, 3,671,256.
 Mook, Dan Gilbert, 3,650,389.
 Morse, John E.; and Rosenburgh, Norman J., 3,640,438.
 Morse, John E., 3,656,674.
 Morse, John E.; and Rosenburgh, Norman J., 3,677,864.
 Morse, Theodore H., 3,650,622.
 Morse, Theodore H., 3,674,532.
 Moss, Donald R., 3,702,086.
 Motter, Robert Franklin, 3,703,584.
 Moulton, Richard D.; and Schieven, Stanley R., 3,707,117.
 Mowrey, Rowland G., 3,676,136.
 Mowrey, Rowland G.; Stephen, Keith H.; and Wolfarth, Eugene F., 3,706,561.
 Muka, Edward, 3,650,447.
 Musliner, Walter J., 3,676,135.
 Nelson, Raymond L., 3,644,034.
 Nelson, Raymond L., 3,673,496.
 Nerwin, Hubert, 3,648,582.
 Nerwin, Hubert, 3,648,585.
 Nerwin, Hubert, 3,659,511.
 Nerwin, Hubert, 3,664,595.
 Nerwin, Hubert, 3,672,273.
 Nerwin, Hubert, 3,680,456.
 Nerwin, Hubert, 3,687,037.
 Nerwin, Hubert, 3,690,238.
 Nerwin, Hubert, 3,690,451.
 Nerwin, Hubert, 3,702,579.
 Nielsen, Le Roy C., 3,693,859.
 O'Brien, Robert J.; Woodall, Norman B.; and Anderson, Donald H., 3,639,061.
 O'Brien, Robert J., 3,655,473.
 O'Connell, Reid J.; and Van Campen, John H., 3,632,373.
 Oftedahl, Edwin N.; Huttemann, Thomas J., Jr.; and Goffe, Charles A., 3,671,260.
 Ogilvie, Roberta A., 3,649,286.
 Oliver, Gene L., 3,652,284.
 Oliver, Gene L.; and Brooker, Leslie G. S., 3,656,957.
 Oliver, Gene L., 3,656,960.
 Olson, James R., 3,647,696.
 Ort, Wolfgang; and Brauning, Gerhard, 3,646,603.
 Ort, Wolfgang, 3,670,635.
 Ort, Wolfgang, 3,677,158.
 Ort, Wolfgang, 3,688,668.
 Otis, Marshall V., 3,644,272.
 Ott, Howard F.; and Carmen, Jerry, 3,635,762.
 Owens, James M.; Graham, James L.; and Pilsworth, Edward A., 3,660,101.
 Pagel, Armin B., 3,675,565.
 Painton, Richard C., 3,664,244.

Parsons, Timothy F., 3,655,380.
 Peiffer, Harold E.; and Kohl, Ralph A., 3,668,996.
 Perconti, Thomas J., 3,692,252.
 Perez-Albuene, Evelio A., 3,634,336.
 Perlman, David E.; and Wiktorski, Daniel F., 3,631,785.
 Philpot, Georges A.; Michiels, Marie-Jose-Suzanne; and de Villeneuve, Yolande-Paule Marie-Josephe, 3,674,745.
 Pierson, Charles W., 3,700,532.
 Piper, Douglas E.; Jarvis, James G.; and Smith, Dale L., 3,654,893.
 Poling, Ezar C.; and Botsford, Charles E., 3,703,428.
 Pollock, John S., 3,645,617.
 Porter, Ralph Frederick; Schwan, Judith A.; and Gates, John W., Jr., 3,639,417.
 Porter, Roy Donald, 3,677,163.
 Prevot, Rene, 3,647,541.
 Price, William H., 3,658,411.
 Price, William H., 3,694,057.
 Priest, William J.; and Marshall, Akemi S., 3,646,032.
 Przedziecki, Wojciech M., 3,690,882.
 Rasch, Arthur A., 3,647,440.
 Rauner, Frederick J.; Arcesi, Joseph A.; and Guild, John R., 3,647,443.
 Ray, Donald A.; and Arnold, Richard E., 3,679,479.
 Reedy, Albert J.; and White, Walter R., 3,666,532.
 Reiss, Frederick W., 3,645,396.
 Reynolds, George A.; Laakso, Thomas M.; Borden, Douglas G.; and Williams, Jack L. R., 3,696,072.
 Rickard, Robert K.; and Klein, William C., 3,690,765.
 Rising, Bradley D., 3,663,110.
 Risley, Hugh A.; and Goodhue, Charles T., 3,642,581.
 Rissberger, Arthur C., Jr., 3,633,842.
 Rissberger, Arthur C., Jr., 3,682,074.
 Roemer, Whitelaw C., 3,655,381.
 Roman, Robert J., 3,659,804.
 Rosborough, Robert S., Jr.; and Wright, Luther M., 3,634,171.
 Rosenburgh, Norman J., 3,647,064.
 Rosenburgh, Norman John, 3,698,654.
 Rossi, Louis J., 3,647,431.
 Roudabush, Robert L.; and Drummond, Linwood E., 3,641,108.
 Rowley, Martin E.; Slowig, Walter D.; and Smith, Carl F., 3,636,150.
 Ruben, Paul L., 3,697,155.
 Rubin, Jacob C.; and Sukel, Gerald J., 3,677,069.
 Russell, William C., 3,702,730.
 Salesin, Eugene Dennis; and Harvey, Robert Calvin, 3,632,342.
 Saunders, Roger L., 3,648,383.
 Saxon, Daniel I., 3,662,821.
 Schaufele, Carl N.; and Metzger, Lenard M., 3,707,600.
 Schieven, Stanley R., 3,649,001.
 Schieven, Stanley R.; and Sampson, Gerald A., 3,669,448.
 Schieven, Stanley R., 3,689,269.
 Schwan, Judith A.; and Graham, James L., 3,672,898.
 Schwan, Judith A.; and Smith, Edward A., 3,689,272.
 Seelbinder, David C., 3,700,335.
 Selke, Lynn A., 3,640,439.
 Sherwood, William T., 3,649,112.
 Simon, Horst, 3,664,252.
 Simon, Horst; and Kirpal, Franz, 3,706,265.
 Simons, Michael John, 3,681,417.
 Smith, Donald A.; and Verdome, Joseph A., 3,647,464.
 Smith, Donald A.; Perry, Ernest J.; and Hollister, Kenneth R., 3,692,753.
 Smith, Donald A., 3,700,456.
 Smith, Donald Arthur; and Copenhagen, Donald M., 3,637,394.
 Smith, Donald Arthur, 3,658,878.
 Smith, Edward W., Jr., 3,702,357.
 Smith, Gerald C.; and Williams, Raymond J., 3,699,832.
 Smith, Gerald C., 3,706,373.
 Snapp, Thomas C.; and Blood, Alden E., 3,645,941.
 Snapp, Thomas Carter, Jr.; Blood, Alden E.; and Hagemeyer, Hugh John, Jr., 3,701,798.
 Spani, Wayne, 3,706,878.
 Spani, Wayne, 3,706,880.
 Spence, John; Gilman, Paul Brewster, Jr.; and Ulbing, Cynthia Geer, 3,690,891.
 Spitulnik, Michael J., 3,636,000.
 Staiger, Ulrich, 3,674,350.
 Stark, Daniel J., 3,670,991.
 Stephens, Curtis L., 3,679,407.
 Stevens, Guy William W., 3,648,587.
 Stewart, Paul Harold, 3,649,265.
 Stimson, Allen G.; and Eagle, John H., 3,661,466.
 Stimson, Allen Gwyn, 3,689,805.
 Stockdale, Willis L., 3,695,160.
 Stoneham, Jeffrey R., 3,672,285.
 Stoneham, Jeffrey R.; and Wood, Lawrence M., 3,707,118.
 Straw, Kimball; and Price, William H., 3,649,101.
 Streicher, Heinz; Riek, Siegfried; and Leutwein, Manfred, 3,645,612.

- Streicher, Heinz; Riek, Siegfried; and Leutwein, Manfred, 3,674,351.
 Sturm, Edward L., 3,677,157.
 Sukel, Gerald J., 3,702,406.
 Sullivan, Michael F., 3,687,668.
 Surash, John J.; Giorgianni, Edward J.; and Hotter, Lynn R., 3,647,461.
 Surash, John J.; Giorgianni, Edward J.; and Hotter, Lynn R., 3,647,462.
 Symonds, Willard G., 3,672,252.
 Taber, Robert C.; and Russell, William H., 3,647,459.
 Taber, Robert C.; and Koller, James E., 3,647,463.
 Taber, Robert C., 3,671,258.
 Taylor, Clarence Reynold, 3,706,108.
 Tholstrup, Clarence E.; and Rush, Sarah J., 3,642,871.
 Thomas, Raymond J.; McDonald, William G.; and Dunning, Walter B., 3,688,625.
 Thomsen, William F.; and Von Bramer, Paul T., 3,699,076.
 Thomson, Kenneth W., 3,700,187.
 Toner, Frederick F., 3,668,980.
 Touey, George P.; and Sloan, Cephas H., 3,640,742.
 Trachtenberg, William, 3,672,930.
 Trachtenberg, William, 3,674,353.
 Tucker, Archie J., 3,679,339.
 Tucker, William M.; Gardner, Barrie; and Hayford, John W., 3,647,646.
 Ulbing, Cynthia Geer, 3,692,526.
 Van Allan, James A.; De Meyer, Dennis E.; and Allen, Frank D., 3,642,479.
 Van Der Voorn, Carol R.; and Willis, Roland G., 3,707,374.
 Van Der Voorn, Peter C., 3,661,583.
 Van Kerkhove, Alan P.; and Baldwin, Roger E., 3,635,545.
 Van Lare, Earl J.; and Fumia, Arthur, Jr., 3,655,393.
 Van Lare, Earl J.; and Brooker, Leslie G. S., 3,678,045.
 Vangraafeiland, Wesley H., 3,694,058.
 Vukosic, Robert S., 3,678,209.
 Wangerin, Elmer O., 3,677,499.
 Weaver, Max A.; Straley, James M.; and Coates, Clarence A., Jr., 3,635,941.
 Weaver, Max A.; and Pridgen, Herman S., 3,639,384.
 Weaver, Max A.; and Pridgen, Herman S., 3,639,385.
 Weaver, Max A.; Pridgen, Herman S.; and Coates, Clarence A., Jr., 3,640,995.
 Weaver, Max A.; and Wallace, David J., 3,657,187.
 Weaver, Max A.; and Wallace, David J., 3,657,215.
 Weaver, Max A.; Pridgen, Herman S.; and Coates, Clarence A., Jr., 3,660,374.
 Weaver, Max A.; Straley, James M.; and Moore, William H., 3,673,169.
 Weaver, Max A.; and Giles, Ralph R., 3,689,501.
 Weaver, Max A.; and Wallace, David J., 3,699,092.
 Webb, Richard V.; and Batesky, Donald C., 3,674,805.
 Webb, Richard V., 3,677,964.
 Werts, Arthur P.; and Besser, John E., 3,696,050.
 White, Neil S.; Wenschhof, David E.; and Mosman, Richard R., 3,694,083.
 Whitmore, Thomas C.; and Cunningham, Robert G., 3,671,806.
 Whitmore, Thomas C., Jr.; and Cunningham, Robert G., 3,670,203.
 Wiegert, Albert Carl; and Schoonmaker, Edward Balmor, 3,700,232.
 Wiest, Donald G., 3,635,853.
 Wiest, Donald G., 3,654,022.
 Wilke, George A., 3,687,050.
 Williams, Carl J., Jr.; and Knechel, William F., 3,642,482.
 Williams, David A.; Yen, Chen-Hsiung; and Harris, Calvin E., 3,687,786.
 Williams, David A., 3,689,783.
 Williams, Francis A., 3,673,941.
 Williams, Franklin C., 3,666,356.
 Willis, Roger L., 3,678,286.
 Wining, John M., Jr., 3,698,096.
 Wisst, Otto, 3,661,062.
 Wolfe, Robert N., 3,640,602.
 Woodhouse, Fred N.; and Smith, Craig F., 3,689,138.
 Wright, John F.; and Rubin, Bruce J., 3,669,885.
 Wright, John F.; and Olson, James R., 3,676,350.
 Wyand, Edwin B.; and Farley, William C., 3,672,891.
 York, William C., 3,639,121.
 Young, Howard S.; Anderson, George C.; and McDaniel, Edgar L., 3,668,245.
 Youngquist, Mary J., 3,664,835.
 Youngquist, Mary J., 3,666,457.
 Youngquist, Mary J., 3,679,426.
 Youngquist, Mary J., 3,700,457.
 Yudelso, Joseph S.; and Dernbach, Barbara F., 3,650,748.
 Eastman Kodak Company, mesne: See—
 Brooks, David N., 3,640,196.
 Wolfer, Allan J.; and Cooper, Edward, 3,702,996.
 Eastman, Richard D.: See—
 Garman, James A.; Eastman, Richard D.; and Watson, Thomas A., 3,641,662.
 Eastman, Richard D., to Caterpillar Tractor Company. Track chain installation tool. 3,661,539, 5-9-72, Cl. 29-270.000.
 Eastman, Richard H.: See—
 Kemper, Clarence A.; Eastman, Richard H.; and Leigh, John H., 3,648,523.
 Easton, Harry T.; and Dwyer, Daniel E., to General Foods Corporation. Process for preparing frozen coffee and product produced therefrom. 3,682,650, 8-8-72, Cl. 99-71.000.
 Easton, Roger L., to United States of America, Navy. Crystal oscillator for satellite. 3,668,527, 6-6-72, Cl. 325-115.000.
 Easton, Rufus: See—
 Newhall, Henry S.; and Easton, Rufus, 3,638,714.
 Easton, Waldron Albert; and Haidy, Mark Allan. Re-usable seal for tab opening cans. 3,650,432, 3-21-72, Cl. 220-42.
 Easton, Wayne B. High pressure expandable chamber device. 3,687,571, 8-29-72, Cl. 418-270.000.
 Easton, Wayne B. High pressure expandable chamber device. 3,687,581, 8-29-72, Cl. 418-270.000.
 Eastop, Robert Henry, to Westinghouse Brake and Signal Company Limited. Inverter circuit. 3,657,634, 4-18-72, Cl. 321-45.
 Eastwood, Alan: See—
 Deakin, Gordon Asquith; Eastwood, Alan; and Vinnucimbe, Gordon, 3,690,204.
 Eastwood, Thomas, to Brown, David, Tractors Limited. Synchronizing mechanisms for power transmissions. 3,695,403, 10-3-72, Cl. 192-53.00e.
 Eaton Allen Corporation: See—
 Barough, Victor; Glenn, Robert; and Rose, Louis (said Rose assor. to), 3,669,019.
 Eaton, Alvin R., Jr., to United States of America, Navy. Anti-submarine missile. 3,636,877, 1-25-72, Cl. 102-49.5.
 Eaton, Bradley C.; and Masel, Marvin, to Singer Company, The, mesne. Analog-to-digital converter. 3,668,693, 6-6-72, Cl. 340-347.05y.
 Eaton, Bruce, to United States of America, Air Force, mesne. Pyro mechanical release device. 3,640,174, 2-8-72, Cl. 85-9.
 Eaton, Bruce G.; deceased (by First Pennsylvania Bank and Trust Co.; executor), to Westinghouse Electric Corporation. Wiping contact reed switch. 3,671,892, 6-20-72, Cl. 335-154.000.
 Eaton Corporation: See—
 Abell, Roy F., Jr., 3,704,696.
 Aches, Horst J., 3,654,876.
 Buck, Ronald H., Jr.; and Zbikowski, Ted, 3,672,435.
 Buttriss, Albert T., 3,672,738.
 Chilcoat, Kermit E., 3,672,706.
 Clancey, Stephen M., 3,648,545.
 Connelly, Laverne R., 3,655,299.
 Damon, Gerald D., 3,654,762.
 De Windt, Edward Mandell, 3,672,699.
 Eisenreich, William, 3,673,467.
 Gamundi, Reynold F., 3,648,796.
 Grygera, James W.; Charlton, James R.; and Swenson, Kenneth S., 3,694,662.
 Hamilton, Martin W.; and Jones, William H., 3,693,083.
 Haurykiewicz, John M., 3,705,314.
 Hedin, Robert A.; and Dukes, Everett E., Jr., 3,673,569.
 Hill, Donald C., 3,704,893.
 Holton, Robert J., 3,704,739.
 Jaeschke, Ralph L., 3,672,042.
 Jaeschke, Ralph L., 3,704,766.
 Kaiser, Hermann, 3,673,367.
 Keene, Derek K.; and Mc Elhare, John J., 3,700,060.
 McLaren, Reginald J., 3,648,756.
 Obermaier, Frank E., 3,675,681.
 Obermaier, Frank E., 3,680,597.
 Pacak, Matthew, 3,672,195.
 Pipes, George R., 3,655,074.
 Regan, John F., 3,672,191.
 Schmitz, Ambrose J.; McCarty, William R.; and Erickson, Howard L., 3,704,721.
 Schultz, Jerald, 3,672,714.
 Soltz, Daniel J., 3,661,089.
 Thompson, Owen R., 3,661,237.
 Trabbic, Gerald W., 3,704,588.
 Zajackowski, Ernest J., 3,666,048.
 Eaton Corporation, mesne: See—
 Richins, Kenneth A., 3,672,305.
 Richins, Kenneth A., 3,672,307.
 Van Niel, Clarence R., 3,678,798.
 Eaton, Daniel A.: See—
 Knowles, Terence J.; and Eaton, Daniel A., 3,669,860.
 Eaton, David Crawford; and Leyland, Boris Nicholas, to Imperial Chemical Industries Limited. Rubber-polyester compositions. 3,692,711, 9-19-72, Cl. 260-3.000.
 Eaton, Earl M.: See—
 Williams, George L.; Brooks, Glen L.; and Eaton, Earl M., 3,658,201.
 Eaton, Earl V., to Garcia, George E. Foldable ski-bob. 3,638,960, 2-1-72, Cl. 280-16.

- Besson, Rene, 3,664,119.
 Besson, Rene; Lawsser, Claude; and Rochat, Daniel, 3,702,530.
 Ebbe, Grace Lakin; and Marki, Gustav Paul, to Bell Telephone Laboratories, Incorporated. Party-line bridge-lifter. 3,703,610, 11-21-72, Cl. 179-35.000.
 Ebbinge, Willem, to U.S. Philips Corporation. Driving arrangement for the drum of a washing machine. 3,638,090, 1-25-72, Cl. 318-345.
 Ebco Manufacturing Company: See—
 Radcliffe, Richard J., 3,698,603.
 EBE Elektro-Bau-Elemente GmbH: See—
 Walz, Manfred, 3,689,714.
 Ebel, Lawrence: See—
 Engelhardt, John Sherman; and Ebel, Lawrence, 3,633,191.
 Ebeling, Arthur W., to Amsted Industries Incorporated. Apparatus for casting metal articles. 3,651,860, 3-28-72, Cl. 164-339.
 Ebeling, Dorothy Stott: See—
 Ebeling, William C., 3,675,993.
 Ebeling, William C., 3,686,435.
 Ebeling, Jack F.: See—
 Hanna, Daniel C.; Ebeling, Jack F.; and Hildebrand, David, 3,701,356.
 Ebeling, Jack F., to Hanna, Daniel C. Direct drive car window brushing unit. 3,649,980, 3-21-72, Cl. 15-21.
 Ebeling, Robert W., Jr.: See—
 Vessel, Eugene D.; and Ebeling, Robert W., Jr., 3,664,132.
 Ebeling, Robert W., Jr., to United Aircraft Corporation. Nonsustaining hybrid propellant grain. 3,698,191, 10-17-72, Cl. 60-220.000.
 Ebeling, William C.; deceased (by Ebeling, Dorothy Stott; executrix). Visual system. 3,675,993, 7-11-72, Cl. 352-92.000.
 Ebeling, William C.; deceased (by Ebeling, Dorothy Stott; executrix). To Singer Company, The, mesne. Apparent altitude changes in television model visual system. 3,686,435, 8-22-72, Cl. 178-6.800.
 Eber, Nicolas, to Aktiebolaget Electrolux. Inert gas type absorption refrigeration apparatus employing secondary refrigeration system. 3,683,640, 8-15-72, Cl. 62-333.000.
 Eberhardt, Thomas; and Welch, William H., to Abbott Laboratories. Infant feeding unit assembly. 3,655,083, 4-11-72, Cl. 215-11.
 Eberhard, Heinz; and Menzer, Anton, to Springfield Instrument Company, Inc. Pressure responsive instrument. 3,631,723, 1-4-72, Cl. 73-410.
 Eberhard Hoesch & Sohne: See—
 Heimbach, Franz; and Schotten, Alfons, 3,656,622.
 Schotten, Alfons; and Heimbach, Franz, 3,648,841.
 Eberhardt, Edward H., to International Telephone and Telegraph Corporation. System and method for discriminating between noise and image signals. 3,646,265, 2-29-72, Cl. 178-7.2.
 Eberhardt, Edward H., to International Telephone and Telegraph Corporation. Search and tracking television system and method. 3,652,790, 3-28-72, Cl. 178-6.8.
 Eberhardt, George J.: See—
 De Vol, Forrest E.; Eberhardt, George J.; and Zurbuchen, Louis E., 3,688,691.
 Eberhardt, Hans: See—
 Berg, Alex; Eberhardt, Hans; Machleidt, Hans; Wildfeuer, Alexander; and Goeth, Hanns, 3,635,998.
 Eberhardt, Ronald P.: See—
 Lumney, Frank B.; and Eberhardt, Ronald P., 3,690,680.
 Eberhardt, Toni, to Schneider, Jos., & Co. Optische Werke Kreuznach. Clamp for optical instruments and the like. 3,706,437, 12-19-72, Cl. 248-230.000.
 Eberhart, Arthur H., to Westinghouse Electric Corporation. Variable capacity refrigeration system and controls. 3,643,462, 2-22-72, Cl. 62-196.
 Eberhart, Billie J.: See—
 Hendricks, Robert G.; and Eberhart, Billie J., 3,701,545.
 Eberhart, Walter W. Seal for ram. 3,695,149, 10-3-72, Cl. 92-168.000.
 Eberle, Arthur C.; and Darby, Lee H., to Columbia Gas System Service Corporation. Flame detection apparatus. 3,671,815, 6-20-72, Cl. 317-133.500.
 Eberle, Gunter. Receptacle holder for centrifuges. 3,674,198, 7-4-72, Cl. 233-26.000.
 Eberle, Hans; and Wuttke, Gerhard, to Grunzweig & Hartmann Aktiengesellschaft. Filamentary polyolefin foam product and process of making the same. 3,640,921, 2-8-72, Cl. 260-2.5.
 Eberle, Jeannine; Sergan, Micheline; Faurian, Claude; and Huguet, Gerard M., to Delalande S.A. Substituted 1-dimethylamino pentanes and heptanes. 3,639,476, 2-1-72, Cl. 260-563.
 Eberle, Jeannine A.: See—
 Furan, Claude P.; Raynaud, Guy M.; Eberle, Jeannine A.; and Thomas, Janine M., 3,658,822.
 Eberle, Jeannine A.; Sergan, Micheline Y.; Fauran, Claude P.; and Huguet, Gerard J., to Delalande S.A. 1-Dimethylamino-3-methyl-2(or 4') alkoxy-3' (or 5') halogenol-2-phenyl pentanes. 3,642,898, 2-15-72, Cl. 260-570.8.
 Eberle, Jurg, to Ferag, Fehr and Reist AG. Apparatus for separating a stack of flat articles into single articles. 3,652,084, 3-28-72, Cl. 271-41.
 Eberle, Marcel K.: See—
 Houlihan, William J.; and Eberle, Marcel K., 3,642,814.
 Eaton, Earl V., to Garcia, George E. Ski bottom finishing method. 3,652,102, 3-28-72, Cl. 280-11.13.
 Eaton, Favre E., to General Time Corporation. Timing circuit for providing linear timing period. 3,693,031, 9-19-72, Cl. 307-293.000.
 Eaton, Jack, to Van Ert Electric. Conduit threading tool. 3,643,991, 2-22-72, Cl. 294-19.
 Eaton, John L., Jr.; Richard, Kenneth L.; and Schwartz, Walter M., Jr., to Proctor-Silex Incorporated. Toaster-oven. 3,669,004, 6-13-72, Cl. 99-331.000.
 Eaton, Jordan. Refuse can receptacle. 3,666,169, 5-30-72, Cl. 232-43.200.
 Eaton, Lloyd W., to Clevite Corporation. Magnesium dry battery with anode contact protection. 3,634,142, 1-11-72, Cl. 136-111.
 Eaton, Randall C. Coupling guard device. 3,678,717, 7-25-72, Cl. 70-232.000.
 Eaton, Robert A., to Norman-Buffett Display Industries, Inc. Advertising display structures. 3,659,365, 5-2-72, Cl. 40-16.
 Eaton, Russell K.: See—
 Warfield, Wayne N.; and Eaton, Russell K., 3,678,934.
 Eaton Yale & Towne Canada Limited: See—
 Albright, Alva Z., 3,672,412.
 White, Idas B., 3,665,985.
 Eaton Yale & Towne GmbH: See—
 Griesenbrock, Karl-Heinz, 3,672,167.
 Kloosterziel, Heinz, 3,704,608.
 Perlick, Reinhold; and Duerhagen, Klaus, 3,631,695.
 Eaton Yale & Towne, Inc.: See—
 Atherton, Arden Daniel, 3,643,194.
 Bloemer, John W., 3,672,402.
 Brawn, Darrell S., 3,640,546.
 Buttriss, Albert T., 3,672,029.
 Chute, Richard; and Bergendahl, Russell J., 3,632,135.
 Chute, Richard, 3,638,964.
 Fathauer, George H., 3,670,318.
 Foltz, Ramon Doyle, 3,632,136.
 Fox, William L., 3,648,964.
 Freismuth, John S.; and Beneditti, Nello L. (said Freismuth assor. to), 3,640,454.
 Frost, Harold A.; and Simpson, Melvin R., 3,691,524.
 Gona, Donald J.; and Oster, Richard J., 3,672,293.
 Griffiths, Thomas C., 3,654,833.
 Gruber, Thomas J.; and Lyth, William W., 3,656,140.
 Hass, David P., 3,632,133.
 Hedin, Robert A.; and Duquesnay, Robert H., 3,651,464.
 McCarty, William R., Jr.; Dolter, Paul A.; and Swanson, Wesley S., 3,672,627.
 McNamara, Thomas V.; and Zahn, Edward L., 3,648,546.
 Moyer, William H., 3,641,375.
 Nemiroff, Robert V., 3,641,411.
 Nielson, Jay P.; and Allred, G. Allen, 3,697,112.
 Ohntrup, Frederick F.; Truemper, John P.; and Smith, Billy C., 3,641,413.
 Ohntrup, Frederick F.; and Peci, Louis E., 3,672,470.
 Pacak, Matthew, 3,700,382.
 Richardson, Robert W., 3,632,132.
 Richens, Kenneth A.; Grover, Scott C.; Allred, James K.; and Shook, James H., 3,632,001.
 Roob, Elwood L.; and Schier, Richard R., 3,631,943.
 Schwartz, Samuel H., 3,659,783.
 Scott, Arthur A., 3,666,235.
 Searle, Clark A., 3,632,238.
 Soberski, George, 3,680,533.
 Wahl, James A.; and Nieminski, Robert A., 3,640,415.
 Eaton Yale & Towne, Inc., mesne: See—
 Buttriss, Albert T.; and Van Niel, Clarence R., 3,636,593.
 Conner, Leonard E., 3,649,156.
 Richins, Kenneth A., 3,631,940.
 Eaves, Billy J.: See—
 Douglas, Gary D.; and Eaves, Billy J., 3,675,578.
 Eaves, Randall H., to De Soto, Inc. Draw means for sliding screen and the like. 3,700,022, 10-24-72, Cl. 160-126.000.
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 Eaves, Robert F., Jr. Remailable mailing envelope. 3,693,869, 9-26-72, Cl. 229-73.000.
 Eaz-Lift Spring Corporation: See—
 Mathisen, Martin H., 3,649,046.
 Ebara Inflico Kabushiki Kaisha: See—
 Eguchi, Fusatoshi; Okamoto, Sohei; Yamaha, Mashio; Matsumoto, Nobuo; and Yokoyama, Minoru, 3,703,963.
 Kawashimo, Kensuke; Tsukagoshi, Kazuo; and Itasaka, Tokio, 3,707,129.
 Ebata, Hiroyuki, to Yoshida Kogyo Kabushiki Kaisha. Presser foot for a double needle sewing machine. 3,680,510, 8-1-72, Cl. 112-235.000.
 Ebauches Bettlach S.A.: See—
 Bachmann, Peter, 3,643,422.
 Ebauches Electroniques S.A.: See—
 Hubner, Kurt, 3,672,154.
 Ebauches S.A.: See—

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Kofink, Siegfried, 3,699,354.
Reuter, Fritz, 3,649,854.
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- Ebert, Ekkehard.: See—
Badami, Angelo V.; Ebert, Ekkehard.; Kemlage, Bernard M.; Kroell, Karl E.; and Pogge, H. Bernhard, 3,669,769.
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- Ebert, Michael: See—
Pacheco, Francisco, 3,648,668.
Reick, Franklin G.; and Wilder, Joseph R., 3,641,332.
- Ebert, Paul J.: See—
Gaines, Jerry L.; Ebert, Paul J.; Mancebo, Lloyd; and Cook, Frederick D., 3,665,236.
- Ebert, Robert J.; and Paxton, William H., to Bethlehem Steel Corporation. Strand guiding apparatus. 3,692,254, 9-19-72, Cl. 242-129.620.
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- Eberts, Klaus. Battery charging system with means for sensing current, voltage, gassing and temperature. 3,652,915, 3-28-72, Cl. 320-31.
- Eberts, Robert E.: See—
Bovarnick, Bennett; Eberts, Robert E.; and Nadkarni, Ravindra, 3,701,739.
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- Eberts, Robert E., to Norton Company. Metallic porous plates. 3,692,087, 9-19-72, Cl. 164-46.000.
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Oberst, Hermann; Reihs, Leonhard; Ebight, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,830.
Oberst, Hermann; Reihs, Leonhard; Ebight, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,833.
Oberst, Hermann; Reihs, Leonhard; Ebight, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,834.
- Oberst, Hermann; Leonhard, Hofheim; Ebight, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,835.
- Oberst, Hermann; Reihs, Leonhard Hofheim; Ebight, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,836.
- Oberst, Hermann; Ebight, Joachim; Duve, Gunther; and Schommer, Alfred, 3,674,624.
- Oberst, Hermann; Ebight, Joachim; Duve, Gunther; and Schommer, Alfred, 3,674,625.
- Ebihara, Akio: See—
Mizutani, Takashi; Anzai, Masao; and Ebihara, Akio, 3,647,503.
- Ebin, Joseph A., to Lockheed Aircraft Corporation. Redundant seal ball valve. 3,678,956, 7-25-72, Cl. 137-242.000.
- Ebine, Kiyoshi: See—
Oya, Tsutomu; and Ebine, Kiyoshi, 3,665,435.
- Ebisawa, Fumio: See—
Endo, Kumaji; Ebisawa, Fumio; and Muratani, Masao, 3,643,850.
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Martin, Henry; Aebi, Hans; and Ebner, Ludwig, 3,692,911.
Martin, Henry; Aebi, Hans Riechen; and Ebner, Ludwig, 3,702,363.
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Lindner, Kurt; and Eichler, Elfriede, 3,658,712.
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- Eby, George W. Emergency signal light with magnetic contacts. 3,706,882, 12-19-72, Cl. 240-7.10r.
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Sharaf, Harold M.; and Eby, Richard L., 3,676,770.
- ECC Corporation: See—
Fink, Leon, Jr.; and Fricker, David C., 3,657,621.
Fricker, David C., 3,657,620.
Fricker, David C., 3,683,250.
Krupka, Ronnie W., 3,696,294.
- Eccettuato, Vittorio: See—
Saltini, Fabrizio; and Eccettuato, Vittorio, 3,691,531.
- Eccles, Anthony Garth, to Alcan Research and Development Limited. Method for filtering molten metal. 3,654,150, 4-4-72, Cl. 210-69.
- Eccles, Anthony John: See—
Eccles, Anthony John; Mant, Alistair Donald; and Shorthouse, Barry Owen, 3,695,115.
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Knechtel, Wilhelm; Brinkmann, Kurt; and Mohr, Heinrich, 3,643,311.
- Ecer, Gunes M., to Cyclops Corporation. Corrosion resistant nickel-molybdenum alloys. 3,649,255, 3-14-72, Cl. 75-170.
- Echeagaray, Ignacio P.: See—
Gilford, Saul R.; and Echeagaray, Ignacio P., 3,667,662.
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- Echelberger, Larry M.: See—
Duke, Roy B., Jr.; and Echelberger, Larry M., 3,646,018.
- Echeverria, Federico S.: See—
Carson, Chester C.; Echeverria, Federico S.; and Barton, Sterling C., 3,702,561.
- Echlin Manufacturing Corporation, The: See—
Gackstetter, Henry Clinton; Anderson, Harold Francis; Shove, Gordon William; and Morin, Louis George, 3,671,314.
- Echo Science Corporation: See—
Maxey, Alexander R., 3,693,227.
- Echo Science Corporation, mesne: See—
Maxey, Alexander R., 3,678,563.
Maxey, Alexander R., 3,679,840.

- Salcedo, Guido; and Graves, Jimmy J., 3,679,838.
- Echte, Adolf: See—
Bronstert, Klaus; Buchholz, Karl; Echte, Adolf; and Hofmann, Juergen, 3,658,946.
- Echter, Otto H. Display apparatus. 3,656,248, 4-18-72, Cl. 40-32.
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Gurgui, Constantiu; Luca, Vasile; Eckardt, Andrei; and Ciulacu, Paraschiv, 3,705,830.
- Eckardt, J. C., AG: See—
Bader, Horst, 3,682,199.
- Eckart, Francis H.: See—
Hayes, John R.; Eckart, Francis H.; and Peck, Donald E., 3,670,624.
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- Ecke, Gunter: See—
Renz, Eberhard; Voss, Siegfried; and Ecke, Gunter, 3,668,725.
- Eckel, Alan. Audiometric survey booth. 3,694,974, 10-3-72, Cl. 52-36.000.
- Eckel, Oliver C. Acoustical assembly with connectors having lips. 3,651,887, 3-28-72, Cl. 181-33.
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Gulbins, Klaus; Wilhelm, Hans; Hartmann, Heinrich; and Eckell, Albrecht, 3,637,596.
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Nickl, Josef; Engel, Wolfhard; Eckenfels, Albrecht; Seeger, Ernst; and Engelhardt, Gunther, 3,655,743.
- Ecker, Ernst: See—
Oster, Helmut; Ecker, Ernst; Wichmann, Frank; Oppermann, Frank; and Joss, Erich, 3,631,724.
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Bielfeldt, Friedrich Bernd, 3,632,729.
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Skromme, Arnold Burton; Lindstrom, Harold Richard; Henningesen, Etar August; Beldin, Royal Lowell; Sorlie, Donald Thomas; and Eckert, Elmer Richard, 3,667,734.
- Eckert, Frank J.: See—
Heller, George L.; Eckert, Frank J.; De Land, Charles L.; and Dingman, Robert W., 3,642,446.
Meldrum, David R.; and Eckert, Frank J., 3,706,586.
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Bialy, Jerzy J.; and Eckert, George W., 3,658,496.
Schlicht, Raymond C.; Eckert, George W.; and Von Allmen, Ronald W., 3,704,107.
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Heins, Arnold; Eckert, Hans-Werner; and Bellinger, Horst, 3,644,204.
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Glanemann, Rudolf, 3,704,038.
- Eckert, Peter: See—
Markert, Juergen; Eckert, Peter; and Della Casa, Angelo, 3,707,346.
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Saul, George A.; and Eckert, Robert J., Jr., 3,681,335.
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Eckholt, Heinrich: See—
Lohring, Theo; Greive, Aloys; Eckholt, Heinrich; and Tiemann, Theodor, 3,645,083.

Eckholt, Heinrich, to Hamel G.m.b.H., Zwrnmaschinen. Spindle coupling. 3,640,144, 2-8-72, Cl. 74-242.15.

Eckle, Manfred: See—
Pohl, Ludwig; and Eckle, Manfred, 3,657,147.

Eckle, Otto, to Komet Stahlhalter- und Werkzeugfabrik Robert Breuning GmbH. Boring bar insert. 3,700,346, 10-24-72, Cl. 408-153.000.

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Eckmar Corporation: See—
Rimmler, William F., 3,635,783.

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Flesch, Keith E., 3,667,520.
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Whitney, John A.; and Woods, Richard E., 3,641,538.
Whitney, John A.; and Woods, Richard E., 3,651,405.

Eckstein, Arthur: See—
Keeler, Richard A.; and Eckstein, Arthur, 3,679,869.

Eckstein, Fritz: See—
Merigan, Thomas C., Jr.; Eckstein, Fritz; and De Clercq, Eric Desire Alice, 3,687,808.

Eckstein, Walter: See—
Hofken, Wilfried; and Eckstein, Walter, 3,635,403.

Eckstein, Walter; and Gah, Ferdinand, to Metzeler AG. Rotary conveyor. 3,637,068, 1-25-72, Cl. 198-211.

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Lecoeur, Jacques, 3,682,069.

Eclipse Consultants Limited: See—
Becker, John E., 3,670,498.

Eclipse Sleep Products, Inc.: See—
Kline, John C.; and Kronman, Albert F., 3,673,619.

ECM Gesellschaft für elektrochemische Materialbeschichtung mbH & Co. KG: See—
Weigel, Jürgen, 3,645,872.

Eco Pump Corporation: See—
Mitchell, William, 3,655,295.

Eco Sciences, Inc., mesne: See—
Zsoldos, Frank J., Jr.; and Kowalski, Anna, 3,702,298.

Ecodyne Corporation: See—
Finder, Earl E., 3,668,132.
Goodman, Brian L.; and Higgins, Robert B., 3,704,788.
Longo, John F.; and Duff, Joseph H., 3,705,477.
O'Brien, Dennis M.; and Miller, Cole R., 3,676,336.
Ryan, Leo F., 3,680,700.
Tischler, Edward J., 3,687,289.
Wapner, Stanley H.; and Soriente, Alfonse J., 3,664,003.
Weis, Frank G., 3,704,868.
Wood, Marvin E., 3,692,674.

Ecodyne Corporation, mesne: See—
Lindstol, Anders, 3,701,423.
O'Brien, Dennis M., 3,660,282.
Ryan, Leo F.; and O'Brien, Dennis M., 3,658,699.
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Salem, Eli; Butterworth, Donald J.; and Ryan, Leo F., 3,645,921.

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Herterich, Walter; Probst, Georg; and Wurm, Bruno, 3,677,386.
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Mandineau, Daniel Paul Henri; Mourey, Michele Yvonne Christiane; Pizzini, Georges Philippe Henri; and Poulain, Jacques Constant, 3,668,017.

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Adams, Jack C., 3,685,946.

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Abos, Ralph L., 3,690,565.

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Dollar, Harry C., Jr., 3,638,337.

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Whitman, Nelson, 3,677,460.

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Bakka, Richard Leo, 3,650,966.
Hatcher, Herbert J., 3,669,840.
Larson, Spencer B.; and Miller, Carl A., 3,635,601.

Mizuno, William G.; Copeland, James L.; and Scholze, Arlene E., 3,700,599.

Nystuen, David L., 3,698,644.

Nystuen, Marcus I., 3,680,070.

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Economou, Hercules. Shutter construction. 3,691,687, 9-19-72, Cl. 49-74.000.

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Economu, Merle A. Linear displacement transducer system. 3,643,198, 2-15-72, Cl. 338-162.

Economy Company: See—
De Bell, Lawrence R.; and Price, David D., Jr. (said De Bell assessor to), 3,691,314.
De Bell, Lawrence R.; and Price, David D., Jr., 3,705,271.

Economy Forms Corporation: See—
Jennings, Ralph L., 3,650,078.
Jennings, Ralph L., 3,693,927.
McCracken, Lyde S., 3,650,081.

Economy, James: See—
Cottis, Steve G.; Economy, James; and Nowak, Bernard E., 3,637,595.
Cottis, Steve G.; Nowak, Bernard E.; and Economy, James, 3,669,738.
Nowak, Bernard E.; Cottis, Steve G.; Economy, James; and Steiner, Paul J., 3,644,593.
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Weiss, Irving F., 3,705,949.

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Eda, Korekiyo: See—
Ohno, Yoshio; Eda, Korekiyo; Tamamura, Toshio; and Yamasaki, Kosaburo, 3,687,784.
Takahashi, Kenji; Yamamura, Toshio; Ono, Mitsuzo; and Eda, Korekiyo, 3,673,125.

Edac Company: See—
Dillon, Vearl Joseph; and Threewitt, Walter M., 3,652,838.

EdAids, Inc.: See—
Oberst, Charles V.; and Oberst, Glen C., 3,676,939.

Edamitsu, Masayuki: See—
Fujita, Hideo; Ishitobi, Masami; Suga, Hiroyoshi; Ishiwari, Keishiro; Yotsui, Yoshikazu; Yamashita, Tadao; Edamitsu, Masayuki; and Moriwaki, Shokichi, 3,701,720.

Edco Corporation: See—
Wohl, Charles J.; Schere, Jonathan L.; and Costello, Thomas V., 3,676,839.

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Shannon, James L., 3,634,953.

Edde, Ernest Howard. Automatic fishing lure. 3,631,624, 1-4-72, Cl. 43-35.

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Gagliardi, Richard P.; Beans, Allen F.; Eddowes, Alfred M.; and Greenblatt, Herbert, 3,701,153.

Eddy, Clifford O.: See—
Barter, James A.; Eddy, Clifford O.; and Stevens, Henry C., 3,642,755.

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Clark, William Russell, 3,633,839.
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Ede, Ainsley N. Trenchless laying of pipe underground. 3,641,780, 2-15-72, Cl. 61-72.4.

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Edelberg, Alan K.; and Swanfeldt, Roy T., to United States Shoe Corporation. The Apparatus for assembling insole strips. 3,661,681, 5-9-72, Cl. 156-546.

Edelberg, Alan Y.; and Hill, Jimmy E., to West Products Corporation. Anchor line reel assembly. 3,645,468, 2-29-72, Cl. 242-107.

Edelmann, Alfred E. Adapter for dental implants. 3,683,501, 8-15-72, Cl. 32-10.00a.

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Edelmann & Ridder: See—
Benk, Claus, 3,688,349.

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Wallskog, Alan G., 3,691,847.

Edelson, Andrew C. Circuit for controlling the duration of an interval between sound signals. 3,684,895, 8-15-72, Cl. 307-132.00e.

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Oddsen, Trygve R.; Oddsen, Gustav A.; and Edelson, Leo, 3,675,597.

Edelstein, Harold P.; and Smith, Roy B., to Transportation Specialists, Inc. Lubrication system and reservoir therefor. 3,659,675, 5-2-72, Cl. 184-39.

Eden, Dayton D.: See—
Clayton, Richard N.; and Eden, Dayton D., 3,655,256.

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Edenhofer, Albrecht; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. Substituted [3-(4-phenyl-1-piperazinyl) propoxy or propyl thio] anilines. 3,701,777, 10-31-72, Cl. 260-268.0ph.

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Eder, Erich, to Kronseder, Hermann. Device for feeding labels into labeling machines. 3,652,082, 3-28-72, Cl. 271-36.

Eder, Heinz: See—
Stoy, Franz; and Eder, Heinz, 3,654,739.

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Schwab, Johann; Buchel, Kurt; Eder, Otto; Hascic, Wladimir; and Marek, Ludwig, 3,698,027.

Eder, Ulrich; Berndt, Hans-Detlef; Kerb, Ulrich; Wiechert, Rudolf; Zollner, Georg; Buchschacher, Paul; Furlenmeier, Andre; Furst, Andor; and Muller, Marcel, to Hoffmann-La Roche Inc. 18-Amino-pregnanes. 3,661,897, 5-9-72, Cl. 260-239.55.

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Edfors, John Eric; Romano, Domenico; and Quattrini, Victor, to Honeywell Information Systems, Inc. Computer package cabinet and module system. 3,691,432, 9-12-72, Cl. 317-100.000.

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Edgar, Howard M. Structural core. 3,697,633, 10-10-72, Cl. 264-45.000.

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Culvenor, Claude Charles Joseph; Edgar, John Alexander; Smith, Leslie Walter; Tweeddale, Helen Joan; Jago, Marjorie; and French, Eric Ancelot, 3,705,905.

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Edge, Charles F., to Hughes Aircraft Company. Digital scan converter. 3,633,173, 1-4-72, Cl. 340-172.5.

Edgemond, John W., Jr., to Gulf Oil Corporation. Torque transmitting joint. 3,642,311, 2-15-72, Cl. 287-109.

Edgerton, John Leslie: See—
Locati, Norman C.; and Edgerton, John Leslie, 3,641,751.

Edgerton, William H., to Smith Kline & French Laboratories. Poly (aminomethyl) cyclopentanes. 3,641,149, 2-8-72, Cl. 260-563.

Edgewater Corporation: See—
Huchette, Paul V.; and Hall, Homer H., Jr., 3,682,466.

Edgren, Jack C.: See—
Huber, Hugh Dana; and Edgren, Jack C., 3,685,934.

Edick Industries, Inc.: See—
Shelstad, Richard J.; and Ballo, James A., 3,681,805.

Edick, Lee: See—
Hoard, Norman F.; and Edick, Lee, 3,691,558.

Edigarian, Zorab Parnakovich; Kudinov, Evgeny Ivanovich; and Sukhov, Vladimir Evgenievich, to Institut geologii i razrabotki goryuchikhiskopaemofh. Vibratory device for taking bottom sediments cores. 3,693,730, 9-26-72, Cl. 175-6.000.

Edin, Ronald E.: See—
Brooks, David N.; Paulauskas, Clyde L.; and Edin, Ronald E., 3,654,431.

Edinger, Calvin R. Transport attachment for grain augers. 3,647,052, 3-7-72, Cl. 198-233.

Edington, Robert Alexander: See—
Barlow, George Edward; Checkland, Peter Bernard; and Edington, Robert Alexander, 3,651,193.

Edington, Robert Alexander; and Aldred, Derek Harry, to Imperial Chemical Industries, Limited. Bonding of shaped articles of polyester. 3,660,202, 5-2-72, Cl. 156-335.

Edkvist, Ake Evald, to Palsen Corporation AB. Methods for manufacturing corrugated board. 3,644,159, 2-22-72, Cl. 156-210.

Edl, Wolfgang; Meyer, Heinz W.; and Schmid, Dieter. Process for polymerization of olefinic compounds. 3,639,370, 2-1-72, Cl. 260-88.7.

Edl, Wolfgang; Faber, Gebhard; Koehler, Michael; Winter, Heinz; and Meyer, Heinz, to Elektrochemische Werke Munchen Aktien-gesellschaft. Ketone peroxide composition stabilized with an amine. 3,645,908, 2-29-72, Cl. 252-186.

Edleson, Thomas B. Racket with replaceable string frame. 3,707,288, 12-26-72, Cl. 273-73.00l.

Edlin, Ray L., to Kelco Company. Method of producing a dehydrated food product. 3,694,236, 9-26-72, Cl. 99-199.000.

Edlin, William Joel Reginald. Cleaning apparatus for floor coverings. 3,676,889, 7-18-72, Cl. 15-320.000.

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Edlis, Stefan T. Ejection actuator for plastic injection mold. 3,645,492, 2-29-72, Cl. 249-68.

Edmaier, Franz; Stiefel, Walter; and Merkle, Hans, to Daimler-Benz Aktiengesellschaft. Cooling installation for liquid cooled internal combustion engine for driving in particular combat-type vehicles. 3,642,062, 2-15-72, Cl. 165-125.

Edmisson, Russell C.: See—
Lemkin, Jack L.; Leistikow, Gerard K.; Edmisson, Russell C.; and Benson, John T., 3,670,449.

Edmisson, Russell C.; and Starr, Stanley R., to Mattel, Inc. Looped track system for toy wheeled vehicles. 3,677,469, 7-18-72, Cl. 238-10.00e.

Edmiston, Dorothy Byars. Threshing implements. 3,674,035, 7-4-72, Cl. 130-10.000.

Edmiston, James R.; and Clinton, Harry M., to Swimrite, Inc. Automatic pool cleaner. 3,689,408, 9-5-72, Cl. 210-169.000.

Edmonds, Byron P., to Kalium Chemicals Limited. Solution mining method. 3,652,129, 3-28-72, Cl. 299-4.

Edmonds, James C., to Fuller Company. Apparatus for blending pulverulent material. 3,680,222, 8-1-72, Cl. 34-57.00a.

Edmonds, James T., Jr.: See—
Grimes, Monford D.; and Edmonds, James T., Jr., 3,701,665.

- Hill, Harold Wayne, Jr.; and Edmonds, James T., Jr., 3,652,327.
 Edmondson, John: See—
 Oeppen, Brian; Edmondson, John; and Sourbutts, Stanley, 3,695,816.
 Edmondson, Locke F.: See—
 Shenkenberg, David R.; Chang, Jiann C.; and Edmondson, Locke F., 3,692,532.
 Edmonston, Robert P.; Gribens, Joel A.; and Simons, Charles W., to Grace, W. R., & Co. Compositions for gaskets having improved resistance to water-based aerosol products. 3,677,993, 7-18-72, Cl. 260-33.60a.
 Edmonston, Robert P.; Lefforge, John W.; and Keller, George C., to Grace, W. R., & Co. Plastics and gaskets. 3,695,477, 10-3-72, Cl. 215-40.000.
 Edmund, James Mitchell. safety ski binding. 3,642,297, 2-15-72, Cl. 280-11.35.
 Edmonds, John O., to General Motors Corporation. Fluid drive transmission with retarder and controls. 3,659,687, 5-2-72, Cl. 192-4.
 Edmonds, William Harold, to Federal Pacific Electric Company. Modular circuit breakers and panelboards with ground-fault protection. 3,636,482, 1-18-72, Cl. 335-6.
 Edmondson, Harold E., to Scappoose Industries, Inc. Device for storing and dispensing cut wires and the like. 3,633,793, 1-11-72, Cl. 221-311.
 Edo Corporation: See—
 Brown, Arthur; and Wong, Thomas W., 3,643,148.
 Schildkraut, Sid I.; Yates, Albert L.; and Cohn, Peter J., 3,655,482.
 Edoco Technical Products, Inc.: See—
 Rasmussen, Donald W., 3,648,575.
 Rasmussen, Donald W., 3,665,820.
 Edon, Claude: See—
 Goue, Bernard; Guitard, Louis; and Edon, Claude, 3,645,799.
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 Schmid, Ernest Jakal, 3,650,166.
 Edsmar, Kurt G., to Sandvikens Jernverks Aktiebolag. Roll device. 3,667,096, 6-6-72, Cl. 29-125.
 Edson, Alden P., to International Nickel Company, Inc. The. Magnetostrictive apparatus and process. 3,634,742, 1-11-72, Cl. 318-118.
 Edson, Robert H.: See—
 Sinclair, Alex H.; Kozowyk, Ted; Reynolds, Ralph K.; Near-gardner, Robert F.; and Edson, Robert H., 3,642,332.
 Edson, William A., to American Electronic Laboratories, Inc. Mechanical tunable bandpass filter. 3,693,115, 9-19-72, Cl. 333-73.00r.
 Edstrom, John Olof; Innerman, Sven Eric; Berg, Bengt Henrik; and Mills, Brian Edward, to Sandvikens Jernverks Aktiebolag. Zirconium alloy tube with zirconium hydride inclusions. 3,690,850, 9-12-72, Cl. 29-183.000.
 Edstrom, Nils Herbert. Telefonaktiebolaget L M Ericsson Arrangement for voice-frequency signalling in telephone systems. 3,636,269, 1-18-72, Cl. 179-84.
 Edstrom, Nils Herbert; and Hemdal, Goran Anders Henrik, to Telefonaktiebolaget L M Ericsson. Process control scanner apparatus. 3,673,577, 6-27-72, Cl. 340-172.500.
 Edstrom, Woodrow O.; and Norling, Charles H., to Sperry Rand Corporation. Method of making side entry card guides. 3,673,669, 7-4-72, Cl. 29-428.000.
 Edu-Matic Designs, Ltd.: See—
 Carrano, Andrew J., Jr.; Cotsalas, Stephen N.; and Jacobson, John E., 3,679,208.
 Eduardo's Industries: See—
 Penton, Edgar W., 3,652,299.
 Penton, Edgar W., 3,653,924.
 Educational Research Council of America: See—
 Zimmerman, Burton R.; Bodley, Roger W.; and Goodman, Robert C., 3,640,195.
 Educational Service Programs, Inc.: See—
 Turner, Justin L., 3,636,279.
 Turner, Justin L., 3,673,334.
 Educational Tools, Inc.: See—
 Graef, Arnold R., 3,683,505.
 EDUS Corporation: See—
 Dacey, Paul F.; De Toma, Samuel; Hayes, Thomas; and McNamara, Matthew F., 3,673,712.
 Edutek Systems Corporation: See—
 Procop, Alex J.; and Boultinghouse, Ace, 3,704,065.
 Edwards, Alan: See—
 Loukes, David Gordon; and Edwards, Alan, 3,656,926.
 Loukes, David Gordon; and Edwards, Alan, 3,658,504.
 Loukes, David Gordon; and Edwards, Alan, 3,674,453.
 Edwards, Alan; and Loukes, David Gordon, to Pilkington Brothers Limited. Coating of glass on a molten metal bath. 3,681,042, 8-1-72, Cl. 65-60.000.
 Edwards, Alan H.: See—
 Delafield, David J.; Edwards, Alan H.; and Owen, Keith, 3,687,644.
 Delafield, David James; Edwards, Alan H.; and Owen, Keith, 3,658,707.
 Edwards, Albert, to Baker Perkins Limited. Method and apparatus for manufacture of cold setting foundry moulds and cores. 3,704,743, 12-5-72, Cl. 164-21.000.
 Edwards, Alfred G.: See—
 Harris, Glyn I.; and Edwards, Alfred G., 3,632,555.
 Edwards, Bernard S.; and Haskell, Vernon C., to Du Pont de Nemours, E. I., and Company. Preparation of coated regenerated cellulose film. 3,656,993, 4-18-72, Cl. 117-56.
 Edwards, Clarence K.; and Edwards, Lawrence D. Forming precise reinforced recesses in thermoplastic foams. 3,670,064, 6-13-72, Cl. 264-130.
 Edwards, Clarence K.; and Edwards, Lawrence D. Machine for making packaging components of foam material. 3,700,371, 10-24-72, Cl. 425-144.000.
 Edwards, Clarence K.; and Edwards, Lawrence D. Model railway switch assembly. 3,700,889, 10-24-72, Cl. 246-415.00a.
 Edwards Company, Inc.: See—
 Berns, Charles, 3,656,156.
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 Parsons, Charles H., 3,696,366.
 Edwards, Dan M.: See—
 Grice, Karl R., Jr.; and Edwards, Dan M., 3,706,027.
 Edwards, Dare E. Portable heating oven for preheating rigid vinyl sheets. 3,644,708, 2-22-72, Cl. 219-386.
 Edwards, David G.: See—
 Starr, Arthur T.; and Edwards, David G., 3,670,269.
 Edwards, David V., to West Products Corporation. Inflatable boat. 3,659,298, 5-2-72, Cl. 9-2.
 Edwards, David V. Sailing kit for inflatable boats. 3,682,123, 8-8-72, Cl. 114-39.000.
 Edwards, David V. Diaphragm. 3,684,406, 8-15-72, Cl. 417-454.000.
 Edwards, David V. Liferact inflation system. 3,685,066, 8-22-72, Cl. 9-11.00a.
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 Edwards, Donald W., to Atlas Chemical Industries, Inc. Aqueous explosive comprising higher amine, gelling agent and inorganic oxidizer salt. 3,695,947, 10-3-72, Cl. 149-2.000.
 Edwards, Douglas C.: See—
 Beaton, John; Edwards, Douglas C.; and Wunder, Richard Helmut, 3,639,339.
 Edwards, Douglas C.; and Dolezal, Premysl Thomas, to Polymer Corporation Limited. Plasticized terminally active liquid diolefin polymers containing polyalkylenimines. 3,635,865, 1-18-72, Cl. 260-28.5.
 Edwards Engineering Corporation: See—
 Sabi, Nestor, 3,693,732.
 Edwards Enterprises: See—
 Edwards, Paul R., 3,703,050.
 Edwards, Eric Descamp: See—
 Elliott, John Scotchford; Edwards, Eric Descamp; and Jayne, Gerald John Joseph, 3,632,613.
 Edwards, Evan A.: See—
 Edelman, Robert I.; and Edwards, Evan A., 3,683,780.
 Edwards, Evan A. Film cartridge and photographic web for use therewith. 3,684,206, 8-15-72, Cl. 242-71.200.
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 Carmichael, Alan, 3,674,130.
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 Sosa, Pedro Baez, 3,689,116.
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 Efron, Edward: See—
 Li, Sik U.; Efron, Edward; and Koros, Robert M., 3,644,192.

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Kay, George; and Efimov, Alexander, 3,704,886.
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Brodeck, Hulmuth, 3,688,652.
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Saralidze, Anton Lavrentievich; and Efremidi, Anatoly Lazarevich, 3,676,762.
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Kahane, Wilhelm; Efros, Magdalena; and Efros, Norbert, 3,633,589.
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- Gates, Percival T., Jr.; and Libbey, Albert H., 3,697,683.
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Crossen, Kenneth R., 3,675,069.
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Kawazu, Yoshio; and Egami, Tadashi, 3,652,098.
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Egan, Bruce C., Jr.; Rifkin, Morton S.; and King, Grover C., 3,693,293.
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Wilson, John Hart, 3,636,905.
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Bunte, William S.; and De Gasperis, Lino E., 3,694,132.
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Kurath, Paul; Egan, Richard Stephan; and Jones, Peter Hadley, 3,681,323.
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Dietrich, Manfred; Eger, Helmut; Neubert, Eckart; and Kruger, Wolfgang, 3,689,332.
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Davidovits, Paul; and Egger, Maurice David, 3,643,015.
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Tronnier, Albrecht; Eggert, Joachim; and Uberhagen, Fritz, 3,642,351.
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Takanas, Haruo; Sone, Sadaie; and Eguchi, Isamu, 3,660,583.
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Okamoto, Kazuo; Eguchi, Naoki; Sakao, Nasuo; Honda, Ichiro; and Suzuki, Eizo, 3,647,571.
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Korosi, Jeno; Pataky, Istvan; and Lang, Tibor, 3,637,853.

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Kerekes, Bela, 3,693,007.

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Voroshazy, Lajos; Thuranszky, Karoly; and Kekes-Szabo, Andras, 3,662,074.

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Pelletier, Marc, 3,690,481.

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Schreier, Wolfgang, 3,677,585.
Schmidt, Andreas; and Muller, Paul, 3,677,587.
Stuck, Klaus, 3,677,586.
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Carlson, Walter H.; and Ehrenreich, Leo C., 3,657,061.

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Wieland, Howard N.; and Ehrlich, Don E., 3,653,693.

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Roberts, Thomas G.; Ehrlich, John J.; Hutcheson, Guilford J., Jr.; and Rust, Charles M., 3,642,007.

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Jacky, Germaine F.; and Ehrlich, Richard D., 3,700,482.

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Cox, Raymond E.; and Ehrlich, Robert M., 3,681,086.

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Newberger, Bernard I.; Ehrlich, Stanley W.; and Vergara, Manuel N., 3,666,826.

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Eibes, Carl B. H., 3,638,259.

Eibes, Christian: *See—*
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Schiesterl, Gerhard; and Eibl, Josef, 3,703,704.

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Meyer, Ronald J.; Horsley, Orville E.; and Eichel, Herman J., 3,663,703.
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Schmidt, Paul; Wilhelm, Max; and Eichenberger, Kurt, 3,632,653.
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Wolfe, Denis G.; and Eicher, Gerald H., 3,685,729.

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Schweg, Otto; Smejkal, Hellmuth; Vereb, Hans; and Eicher, Karl, 3,662,447.

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Magosch, Karl-Heinz; Rombusch, Konrad; and Eichers, Ursula, 3,701,765.
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- Althoff, Heinz, 3,638,747.
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- Knuppel, Helmut; Brotzmann, Karl; Fassbinder, Hans-Georg; Savard, Guy; and Lee, Robert, 3,706,549.
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- Sturm, Hans Juergen; Armbrust, Herbert; Eisert, Manfred; and Scheckner, Hans-Georg, 3,658,893.
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- Brandstrom, Arne Elov; Carlsson, Per Arvid Emil; Carlsson, Stig Ake Ingemar; Corrodi, Hans Rudolf; Ek, Lars; Lamm, Bo Robert; and Ablad, Bengt Arne, 3,674,840.
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- Bollard, David Rooksby; and Jenkins, William Alfred, 3,657,719.
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- Leedy, Edwin H., 3,633,786.
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Ahlberg, Erik Johan Victor; Ekwall, Gosta Bernhard; and Lindqvist, Rolf Arne Ronald, 3,659,657.
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Pomara, Johnny B., Jr., 3,674,178.
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Mims, Samuel S., 3,673,245.
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Aus Der Funten, Helmut; Richtzenhain, Hermann; and El-Chahawi, Moustafa, 3,632,625.
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Kolbel, Herbert; Manecke, Georg; and El-Ghatta, Hussain Kashif, 3,692,729.
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Blazer, Benjamin V.; and El-Tahry, Mahmoud S., 3,637,195.
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Reuter, Franz Gottfried, 3,658,756.
- Elastomer Seals, Inc.: See—
Trieste, Mario R.; Hall, Kenneth; and McCrady, Samuel, 3,653,305.
- Elazar, Shmuel: See—
Funfstuck, Horst; and Elazar, Shmuel, 3,675,643.
- Funfstuck, Horst; and Elazar, Shmuel, 3,677,260.
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Reick, Franklin G., 3,638,644.
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- Elca Battery Company: See—
Eisenberg, Morris, 3,698,953.
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Inacker, Frederick T., 3,634,814.
- Rossman, Donald W., 3,668,604.
- Ruehleman, Herbert E.; and Wontorsky, Alexander, 3,675,185.
- Elco Corporation, mesne: See—
Hutner, Mark A., 3,704,999.
- Zahradnik, George J.; and Maurer, Mel E., 3,695,535.
- Zahradnik, George J., 3,697,009.
- Elco-Kunststoffe A. Elges & Co.: See—
Duepree, Hans-Werner, 3,653,735.
- Elcor Chemical Corporation: See—
Orahoad, John L., 3,661,518.
- Eldamati, Salah Eldin A.: See—
Coccagna, Daniel T.; and Eldamati, Salah Eldin A., 3,677,200.
- Elder, Fred Grove: See—
Brey, Wilhelm; Hostettler, William; Loeffler, Earl Ferdinand; Kolm, Hubert Ernest; and Elder, Fred Grove, 3,700,526.
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- Elder, Gerald Brent: See—
Lewis, Armand Francis; and Elder, Gerald Brent, 3,649,430.
- Elder, Harry Eugene: See—
Apgar, Waldo Ditmar; D'Asaro, Lucian Arthur; Dixon, Richard Wayne; Dufft, William Henry; Elder, Harry Eugene; and Fraley, Phillip Edward, 3,694,902.
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Paulson, Erlend G.; and Mandala, Charles G., 3,701,391.
- Eldorado Nuclear Limited: See—
Craigne, William J. S.; Ritcey, Gordon M.; Joe, Edwin Glendon; Melvanin, William; and Smart, Bruce C., 3,702,883.
- Eldred, Nelson Richard: See—
Olhoft, Gary Vernon; Eldred, Nelson Richard; and Koleske, Joseph Victor, 3,642,507.
- Eldredge, Carl H.: See—
Heseltine, Donald W.; and Eldredge, Carl H., 3,706,555.
- Eldredge, Carl H.; and Mee, John D., to Eastman Kodak Company. Intermediates and the preparation and use thereof. 3,674,782, 7-4-72, Cl. 260-240.400.
- Eldridge, David G.: See—
Hayner, Paul F.; and Eldridge, David G., 3,706,323.
- Eldridge, Judson B.: See—
Diebold, James P.; and Eldridge, Judson B., 3,702,354.
- Eldridge, Merle K.; Bloom, Roy C.; and Joseph, Douglas C., to Eastman Kodak Company. Stain inhibitor in photographic paper bases. 3,671,248, 6-20-72, Cl. 96-76.00r.
- Elcompack Company Limited: See—
Naito, Han-Ichiro; and Yamaguchi, Tsuneo, 3,648,241.
- Electone, Inc.: See—
Lamp, Paul F., 3,641,288.
- Lamp, Paul F., 3,692,959.
- Electra Flock, Inc.: See—
Grewe, Josef, 3,671,373.
- Electrex Corporation: See—
Scott, Harold W.; and Kelemencky, Monroe R., 3,631,595.
- Electric & Musical Industries Limited: See—
Bell, Samuel; and Bullen, Leslie Gerald, 3,705,431.
- Etherington, Michael, 3,657,726.
- Ingham, William Ellis; Symons, Michael; and Murden, Peter, 3,643,215.
- Laverick, Robert Clement; and Smith, Peter Rothwell, 3,636,563.
- Phillips, Graham; and Perring, Dudley, 3,683,235.
- Rand, Walter Leslie; and Simmons, John Ernest, 3,657,787.
- Taylor, John Harry; and Harris, Roger Stephen, 3,644,834.
- Taylor, Richard John, 3,705,839.
- Electric Fuel Propulsion, Incorporated: See—
Rippel, Wally E., 3,641,364.
- Electric Machinery Mfg. Company: See—
Gillett, Jimmie Douglas, 3,704,403.
- Electric Musical Industries Limited: See—
Wilkinson, Alan; Hine, Stewart Charles; and Bosher, David Robert, 3,644,739.
- Electric Nuclear Laboratories, Inc.: See—
Chow, Ken-Tang; Stull, John William; and Bates, Charles Edward, 3,691,390.
- Electric Reduction Company of Canada Limited: See—
Smith, Raymond Anthony; and Sansom, John Norman, 3,652,210.
- Electric Reduction Company of Canada, Ltd.: See—
Meyers, Norman W., 3,669,619.
- Porter, Alan S.; and Whyte, David Thomas Kerr, 3,634,257.
- Rapson, William H., 3,698,995.
- Electric Regulator Corporation: See—
Ettinger, James P.; and Otteson, Christian S., 3,693,050.
- Wilcox, Lance C., 3,661,013.
- Electrical Constructors and Associates: See—
Elliott, James H., 3,652,777.
- Electrical Fittings Corporation: See—
Eidelberg, Jonah, 3,703,303.
- Electrical Remote Control Company Limited: See—
Ponting, Ivor, 3,678,780.
- Electricite de France (Service National): See—
Charrier, Andre George; Mascarello, Jean Marius; and Rigollot, Georges Alfred, 3,631,673.
- Frerson, Raymond; Gravier, Claude; Ravenel, Pierre; and Sou-pene, Pierre, 3,640,621.
- Guillot, Pierre; and Vuillot, Michel, 3,665,180.
- Electro Adapter Inc.: See—
Fish, Ray F., 3,659,251.
- Electro Connective Systems, Inc.: See—
Travis, Lawrence R., 3,704,164.
- Electro Corporation: See—
Gee, Gordon E., 3,697,779.
- Electro Development Corporation: See—
Harris, Carl R., 3,661,220.
- Harris, Carl R.; Banks, Robert B.; and Soward, Dallas V., 3,701,279.
- Electro Devices, Inc.: See—
Kessler, Arthur R., 3,657,714.
- Electro Marine Corporation: See—
Burns, Harold S., 3,699,658.
- Electro Medical Systems, Inc.: See—
Sittner, Weldon Rex, 3,675,655.
- Electro Print Inc.: See—
Pressman, Gerald L.; and Casanova, John V., 3,689,935.
- Electro Products Laboratories, Inc.: See—
Dittman, Kenneth C., 3,701,015.
- Electro Sound, Inc.: See—
Fujii, Wesley M.; and Rehklau, George D., 3,634,172.
- Electro Switch Corporation: See—
MacLean, Alexander, 3,649,793.
- Electro-Craft Corporation: See—
Anderson, Robert F., 3,639,792.
- Persson, Erlend K., 3,663,851.
- Electro-Mechanical Design Limited: See—
Parker, Joseph Donald, 3,663,841.
- Electro-Mechanical Instrument Co., Inc.: See—
Fleetman, Hobart H., 3,638,117.
- Mackenzie, Elbert K., 3,638,118.
- Mackenzie, Elbert K., 3,638,119.
- Electro-Mechanical Instrument Company, Inc.: See—
Mackenzie, Elbert K., 3,677,619.
- Electro-Mechanical Instrument Company, Inc., mesne: See—
Dinlocker, Robert I., 3,637,241.
- Fleetman, Hobart H.; and Wohlbach, Harry E., 3,671,861.
- Electro-Nite Engineering Co.: See—
Boron, Joseph; and Lowdermilk, Marvin J., 3,685,359.
- Electro-Nucleonics: See—
Maclin, Ernest, 3,696,971.
- Electro-Nucleonics, Inc.: See—
Maclin, Ernest, 3,684,408.
- Electro-Quimica de Flix S.A.: See—
Martinez-Alvarez, Francisco; Ruiz, Ricardo Garcia; De Porras, Jaime Molinae; Merino Del Rio, Jose Luis; and Bertsch, Walter, 3,655,789.
- Electro-Security Devices, mesne: See—
Humphrey, Harold D.; and Juengel, Richard O., 3,680,073.
- Electro-Sonic Pollution Control Corporation: See—
Eng, Joseph W.; and Lin, Stanley C. F., 3,643,624.
- Electro-Space Fabricators, Inc.: See—
Straccia, William J.; Gernert, Brooke E.; and Sherer, Ronald B., 3,696,936.
- Electrocell Limited, mesne: See—
Keefer, Richard Mackay, 3,682,704.
- Electrochemical Industries Corporation, mesne: See—
Barbato, Alexander Louis; Laub, Henry William; and Loftfield, Richard Eric, 3,689,384.
- Electrochimica Corporation: See—
Eisenberg, Morris, 3,660,162.
- Electrocopy Corporation: See—
Bentzman, Louis, 3,656,848.
- Electrodynamics Gravity, Inc.: See—
Hooper, William J., 3,656,013.
- Electrofact N.V.: See—
Leyten, Johannes; and Nicolaas, Amersfoort, 3,657,565.
- Electrofil: See—
Melquion, Henri; Stauff, Emile; and Guillot, Jean, 3,654,030.
- Electrogas Dynamics, Inc.: See—
Cowan, Philip L., 3,645,447.
- Cowan, Philip L., 3,653,592.
- Cowan, Philip L., 3,693,877.
- Geberth, John D., Jr., 3,687,368.
- Electrogenics, Inc.: See—
Sickels, David W.; and Sills, Robert E., 3,645,877.
- Sickels, David W., 3,658,684.
- Sickels, David W., 3,705,843.
- Electroglas, Inc.: See—
Glenn, David A.; and Lytle, David N., 3,689,892.
- Electrohome Limited: See—
Fichtner, Roland H., 3,675,142.
- Kitchener, Andrew Rajna, 3,704,923.
- Kleeger, Allan A., 3,686,582.
- Kreutzweiser, Charles E., 3,652,142.
- Lovely, John D., 3,705,259.
- Remick, Cassius D., 3,654,747.
- Russell, William G., 3,673,523.
- Russell, William G., 3,693,091.
- Russell, William G., 3,693,092.
- Russell, William G., 3,693,093.
- Russell, William G., 3,705,356.
- Urwin, Peter T., 3,697,921.
- Electrolocation Limited: See—
Howell, Mark I., 3,707,002.
- Electrolytic Zinc Company of Australasia Limited: See—
Bratt, Geoffrey Charles; and Sinclair, Roderick James, 3,642,467.
- Matthew, Ian George; and Elsner, Dagwin, 3,656,941.
- Electrolytic Zinc Company of Australia Limited: See—
Ashdown, Neil Clifford; and Groutsch, Eugene Reginald, 3,672,650.
- Electromagnetic Industries, Inc.: See—
Legatti, Raymond H., 3,666,993.
- Electromagnetic Industries, Incorporated: See—
Holt, John K., 3,683,280.
- Electromechanisms, Inc.: See—
Thoesch, Donald L., 3,693,033.
- Electromitor, Inc.: See—
Willis, John R., 3,702,902.
- Electron Emission Systems, Inc., mesne: See—
Geppert, Donovan V., 3,701,919.
- Electronic Arrays, Inc.: See—
Glaser, Peter S., 3,691,429.
- Glaser, Peter S.; and Goldberg, Jack, 3,707,602.
- Mc Coy, Michael R.; and Nixon, Glen E., 3,673,427.
- Mc Coy, Michael R.; and Walther, Terry R., 3,704,454.
- McCoy, Michael R.; and Walther, Terry R., 3,665,422.
- Electronic Assistance Corporation: See—
Mitchell, Chauncey L., III, 3,675,859.
- Electronic Associates, Inc.: See—
Arnold, Floyd L.; and Patmore, James R., 3,691,650.
- Horbach, Stephen, 3,668,586.
- Horbach, Stephen, 3,675,174.
- McMurray, James A., 3,670,154.
- Patmore, James R.; Bozenhard, Walter Frank; and Spanpanato, Gavino Anthony, 3,678,258.
- Tempel, George F., 3,678,402.
- Electronic Communications Inc.: See—
Elliott, James W., 3,639,848.
- Myers, Lester W., 3,646,804.
- Electronic Control Corporation: See—
Krupka, Ronnie W., 3,649,905.
- Electronic Controls Corporation: See—
Davidson, William J., 3,657,496.
- Davidson, William J., 3,691,328.
- Electronic Data Systems Corporation: See—
Spraker, Earl D., 3,700,814.
- Electronic Design & Services, Inc.: See—
Anderson, Bruce J.; and Noegel, Charles R., 3,702,925.
- Electronic Development Corporation: See—
Fullmer, Richard K., 3,684,831.
- Electronic Diversified, Inc.: See—
Horne, Arthur P., 3,659,336.
- Electronic Enterprises, Inc.: See—
Vollrath, Arthur E., 3,634,002.
- Electronic Image Systems Corporation: See—
Epstein, Paul; Cunningham, James; Wernikoff, Robert E.; and Rosen, George, 3,646,257.
- Wernikoff, Robert E.; Perozek, David M.; and Roten, Jana M., 3,654,846.
- Wernikoff, Robert E., 3,700,797.
- Electronic Industrial Engineering, Inc.: See—
Thompson, John R., 3,648,000.
- Electronic Machining Company: See—
Bruging, Paul F., 3,653,609.
- Electronic Memories & Magnetics Corporation: See—
Morgan, Donald G., 3,678,427.
- Electronic Memories and Magnetics Corporation: See—
Cook, William M., 3,651,497.
- Harding, Philip A., 3,675,221.
- Kenner, Bernard A., 3,693,176.
- Electronic Precision Industries Corporation, Inc.: See—
Trzyna, Charles J., 3,693,544.

- Electronic Products Corporation: *See*—
Corrigan, Matthew J., Jr., 3,679,823.
- Electronic Research Associates, Inc.: *See*—
Grieg, Donald D.; and Schoengold, Herbert, 3,696,885.
- Electronic Resources, Inc.: *See*—
Hanby, Frederick E., 3,644,759.
- Electronic Systems Division; a division of Dynamics Corporation of America: *See*—
Dosch, Thomas J., 3,665,386.
- Electronic Systems Engineering Co., mesne: *See*—
Kallenberg, Karl J., 3,635,386.
- Electronic Systems, Inc.: *See*—
Morris, Harold B., 3,688,251.
- Electronic Transmission Systems, Inc.: *See*—
Priessnitz, Edmund F., 3,683,412.
- Priessnitz, Edmund F.; and Scott, Raymond, 3,684,889.
- Electronics Corporation of America: *See*—
Bryant, Jack A., 3,684,423.
- Cade, Phillip J., 3,644,074.
- Cade, Phillip J., 3,664,803.
- Lord, Philip E., 3,644,748.
- Thomson, Elihu Craig, 3,651,327.
- Electronics Diversified, Inc.: *See*—
Horne, Arthur P., 3,668,515.
- Horne, Arthur P., 3,696,291.
- Electronics Research, Inc.: *See*—
Silliman, Robert M., 3,665,479.
- Electronique Marcel Dassault: *See*—
Badiano, Jacques; and Commissaire, Henri, 3,696,416.
- Fournillon, Germain, 3,641,252.
- Lartigue, Gerard; and Durand, Pierre, 3,684,453.
- Meyer, Charles; Maison, Francois; and Sangouard, Paul, 3,651,513.
- Salvert, Bernard, 3,706,045.
- Electronized Chemicals Corporation: *See*—
Brown, Chester A.; and Rossetti, Louis F., 3,650,827.
- Pattison, Richard Arthur, 3,668,370.
- Electronor Corporation: *See*—
deNora, Vittorio; Meyer, Lewis M.; and Barbato, Alexander L., 3,684,543.
- Electroprint, Inc.: *See*—
Noon, Alonzo W., 3,677,224.
- Pressman, Gerald L., 3,694,200.
- Electroprint, Inc., mesne: *See*—
McFarlane, Samuel B., Jr.; Burdige, Joseph; and Alexander, Norman E., 3,645,614.
- Pressman, Gerald L.; and Kittredge, Thomas D., 3,647,291.
- Pressman, Gerald L.; and Kittredge, Thomas D., 3,697,164.
- Electrospace Corporation: *See*—
Meri, Kalju, 3,683,122.
- Wolf, Arnold M.; and Richter, John G., 3,637,933.
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- Electrospin Corporation: *See*—
Amato, Richard A., 3,665,695.
- Stalder, Herbert; and Pellaton, Jean, 3,664,110.
- Electrospin Corporation, mesne: *See*—
Amato, Richard A., 3,706,193.
- Electrostatic Equipment Corporation: *See*—
Goodridge, Walter R., 3,698,847.
- Electrostatic Printing Corporation, mesne: *See*—
Edwards, James W.; Larrigan, Harry J.; and Mays, Shelly W., Jr., 3,665,851.
- Electrotec Corporation: *See*—
Self, Aaron C., 3,683,393.
- Electrothermic Co., The: *See*—
Gill, William G., 3,642,066.
- Electrovert Ltd.: *See*—
Gogan, James E., 3,680,817.
- Electrovert Manufacturing Co., Ltd.: *See*—
Tardoskegyi, Louis V., 3,705,457.
- Electroweave, Inc.: *See*—
Sennett, Kenneth H.; and Mandel, Alan P., 3,646,247.
- Eleftherion, Michael P.: *See*—
Cranston, Benjamin H.; and Eleftherion, Michael P., 3,699,640.
- Elektrochemische Werke Munchen AG: *See*—
Meyer, Heinz; Schmid, Dieter; Schwarzer, Hans; and Twittenhoff, Hansjoachim, 3,644,612.
- Elek, John William: *See*—
Alles, David Shepard; Elek, John William; Nevis, Benjamin Edward; and Schlegel, Wallace Albert, 3,636,849.
- Elek, Sandor: *See*—
Toldy, Lajos; Borsi, Jozsef; Elek, Sandor; Elekes, Istvan; and Andras, Ferenc, 3,671,537.
- Elekes, Istvan: *See*—
Toldy, Lajos; Borsi, Jozsef; Elek, Sandor; Elekes, Istvan; and Andras, Ferenc, 3,671,537.
- Elektrochemische Werke Munchen Aktiengesellschaft: *See*—
Edl, Wolfgang; Faber, Gebhard; Koehler, Michael; Winter, Heinz; and Meyer, Heinz, 3,645,908.
- Elektra Systems, Inc.: *See*—
Gervale, Anthony J., 3,688,105.
- Elektra-Bregenz GmbH: *See*—
Gehrmann, Hasso, 3,670,746.
- Gehrmann, Hasso, 3,694,046.
- Gehrmann, Hasso, 3,699,780.
- Elektricka Svetsningsaktiebolaget: *See*—
Stryck, Reinhold Friedrich, 3,681,891.
- Elektriska Svetsningsaktiebolaget: *See*—
Andreasson, Per Arvid; and Persson, Mats Olof, 3,701,251.
- Boden, Knut Folke Ingemar, 3,684,152.
- Elektro-Apparatebau F. Knobel & Co.: *See*—
Meili, Ernst, 3,694,784.
- Elektro-Physik Hans Nix & Dr. Ing. Steinguever, KG: *See*—
Steingroever, Erich, 3,699,487.
- Elektro-Thermit GmbH: *See*—
Edeling, Curt; and Eisenmann, Joseph, 3,697,747.
- Guntermann, Hans, 3,638,978.
- Elektroakustikai Gyar: *See*—
Husztly, Denes; and Illenyi, Andras, 3,648,801.
- Elektrodenfabrik Oerlikon Buehrle AG: *See*—
Mages, Karl; and Ulli, Hans, 3,683,149.
- Elektrophysikalische Anstalt Bernhard Berghaus: *See*—
Spescha, Gelli Anton, 3,681,662.
- Elektroschmelzwerk Kempten G.m.b.H.: *See*—
Kunst, Helmut, 3,673,005.
- Elektrostal, Moskovskaya Oblast: *See*—
Shmidrov, Jury Petrovich; Elektrostal, Moskovskaya Oblast; Mogilevkin, Felix Davydovich; and Rabinovich, Oleg Yakovlevich, 3,683,664.
- Elemelt, Ltd.: *See*—
Steitz, William R.; Bradley, Robert O.; and Waterworth, Thomas H., 3,634,588.
- Element Limited: *See*—
Gell, Philip Anthony Maunsell; and Waterworth, Thomas Hugill, 3,683,093.
- Elemndorp, Jan: *See*—
deRooy, Abraham H.; and Elemndorp, Jan, 3,655,760.
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- Eletto, Richard J.; and Martin, Donald J. Preparation of primary mercaptans. 3,689,568, 9-5-72, Cl. 260-609.00b.
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Svoronos, Jason, 3,647,372.
- Elevator Equipment Company: *See*—
Lawrence, William Anthony Perry; and Mills, James Arthur, 3,707,166.
- Elevitch, Franklin R. Method and apparatus for forming electrophoresis apparatus and the like. 3,635,808, 1-18-72, Cl. 204-180.
- Elewski, John S.: *See*—
Bradford, Glenn H.; and Elewski, John S., 3,684,101.
- Elf Union: *See*—
Laveau, Francis, 3,648,714.
- Elfab Corporation: *See*—
Ammon, John Preston; and Inacker, Frederick T., 3,660,726.
- Kendall, Jerry A., 3,676,926.
- Elfast, Royal Albert, Jr. Transport package for bacteriological specimens. 3,651,926, 3-28-72, Cl. 206-1.
- Elfin, Lorenz. Pressure-operated tool. 3,660,885, 5-9-72, Cl. 29-243.53.
- Elfstrom, Gosta: *See*—
Bogren, Hugl; Elfstrom, Gosta; and Tengroth, Bjorn, 3,679,901.
- Elfvig, Thore M. Thermoelectric assemblies. 3,671,326, 6-20-72, Cl. 136-205.000.
- Elgan, Douglas L.: *See*—
Clark, Lowell; and Elgan, Douglas L., 3,681,153.
- Elgan, Douglas L.; and Hays, Robert G., to Motorola, Inc. Aluminum diffusions. 3,681,155, 8-1-72, Cl. 148-188.000.
- Elgin Sweeper Company: *See*—
Prescott, Ernest F.; and Palmiter, Donald R., 3,634,900.
- Elhaus, Friedrich W. Furnace heating apparatus. 3,632,093, 1-4-72, Cl. 263-8.
- Elhen, Karl C., to Modernfold of Canada Limited-Modernfold du Canada Limitee. Sectionalized panel structure. 3,693,694, 9-26-72, Cl. 160-199.000.
- Elias, Brady M.: *See*—
Hackett, Robert H.; Hartmann, Charles D.; and Elias, Brady M., 3,643,362.
- Elias, Laurence F.; and Magee, James H., to Leeds & Northrup Company. Digital function generator. 3,686,665, 8-22-72, Cl. 340-347.0ad.
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- Elie, De Roberval: *See*—
Tanguay, Jean-Paul; and Elie, De Roberval, 3,647,046.
- Elin, Nikolai Mikhailovich: *See*—
Ivanovichetrov, Vasily; Svetlichny, Boris Nikolaevich; Demidov, Jury Alexeevich; Elin, Nikolai Mikhailovich; Cherepanov, Vladimir Petrovich; Samuilov, Ivan Nikolaevich; and Cheprasov, Ivan Matveevich, 3,684,264.
- Elin-Union Aktiengesellschaft fur Elektrische Industrie: *See*—
Woda, Karl, 3,634,710.
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- Eliot, Sigdon A., to Thermetics, Inc. Scrap reclamation. 3,656,735, 4-18-72, Cl. 266-33.
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- Elisofon, Barry A.; and Elisofon, Judith. Door locking mechanism. 3,702,201, 11-7-72, Cl. 292-338.000.
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Elisofon, Barry A.; and Elisofon, Judith, 3,702,201.
- Elitex: *See*—
Svaty, Vladimir, 3,633,808.
- Elitex, Zavody textilniho strojrenstvi Generalni reditelstvi: *See*—
Brazda, Ladislav; Prochazka, Miloslav; Kuhn, Vladimir; and Ozdian, Josef, 3,667,205.
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Horatschke, Rudolf; Holy, Zdenek; Havlas, Jiri; Kostecky, Premysl; and Rejnart, Vlastimil, 3,643,990.
- Elitex, Zavody textilniho strojrenstvi: *See*—
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Prochazka, Miloslav; and Kaulich, Karel, 3,643,414.
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Kacalek, Josef; Bartos, Josef; and Stransky, Miroslav, 3,661,019.
- Prochazka, Miloslav; Seidl, Karel; and Cesenek, Bedrich, 3,678,673.
- Sedlarik, Jaroslav; Havlas, Jiri; and Kostecky, Premysl, 3,640,440.
- Svoboda, Vladimir; and Vajda, Andrej, 3,707,083.
- Vach, Miroslav, 3,655,951.
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Ferda, Josef; and Kotacka, Josef, 3,650,128.
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Brazda, Ladislav, deceased; Brazdova, Dagmar; Prochazka, Miloslav; Kaulich, Karel; and Ozdian, Josef (said Prochazka, said Kaulich and said Ozdian assors. to), 3,643,413.
- Chvala, Bretislav; Janostik, Jaroslav; Mares, Jindrich; and Jerabek, Jan, 3,683,644.
- Dostal, Pravomil, 3,706,328.
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- Jindra, Karel; Pavlik, Kamil; Kas, Josef; Kocian, Zdenek; Hanjs, Vaciv; and Tyls, Jaroslav, 3,681,907.
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- Svaty, Vladimir, 3,638,685.
- Vladimir, Svaty, 3,693,668.
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Lutovsky, Josef; and Prasil, Vladimir, 3,640,059.
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- Elizalde, Eduardo Delfin. Joint for sheet elements. 3,660,482, 5-2-72, Cl. 52-537.
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Roben, Lucas Wilhelmus, 3,646,641.
- Elkay Manufacturing Company: *See*—
Farrell, Gerald J.; and Bartos, Frank J., 3,667,503.
- Farrell, Gerald J., 3,680,152.
- Elkem A/S: *See*—
Krogsrud, Harald, 3,634,589.
- Elkhart Welding & Boiler Works, Inc.: *See*—
Weber, Charles A., 3,679,232.
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Fisher, Robert L., 3,697,098.
- Elkin, Robert A. Tubular laminate. 3,687,795, 8-29-72, Cl. 161-47.000.
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Odum, William T.; Elkins, James H.; and Coggings, Thomas M., 3,702,597.
- Elkins, James H., to United States of America, Navy. Underwater electrical connector. 3,665,509, 5-23-72, Cl. 339-12.00v.
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- Ellaschuk, Edwin Ivan. Cover for insulator assembly. 3,692,927, 9-19-72, Cl. 174-139.000.
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Beacon, Robert G., 3,704,046.
- Elle, John T.: *See*—
Guth, Raymond J.; and Elle, John T., 3,632,965.
- Ellen, Peter Edington: *See*—
Crimp, Arthur Elliott; and Ellen, Peter Edington, 3,687,346.
- Ellenberg, John D.: *See*—
Roberts, John D.; Ellenberg, John D.; and Keith, Charles H., 3,656,484.
- Ellenberger & Poenigen GmbH: *See*—
Ellenberger, Jakob, 3,675,177.
- Ellenberger & Poensgen GmbH: *See*—
Ellenberger, Jakob, 3,674,952.
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Kelly, Robert Gerard; and Ellenbogen, Leon, 3,651,236.
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- Ellendt, Gunther: *See—*
Thiel, Reinhard; and Ellendt, Gunther, 3,677,819.
- Eller, Arnold Oskarovich: *See—*
Petrov, Vitaly Ivanovich; Ivanov, Alexandr Nikolaevich; Olenin, Jury Leonidovich; Eller, Arnold Oskarovich; Butuzov, Anatoly Akimovich; Basin, Abram Moiseevich; Starobinsky, Vladimir Borisovich; Ratner, Efim Rafailovich; and Potapov, Oleg Fedorovich, 3,659,542.
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Gaiser, Edward J.; and Ellett, Kenneth W., 3,690,538.
- Ellico, Patrick, to O'Toole, Robert J. Rider propelled merry-go-round. 3,642,275, 2-15-72, Cl. 272-33.
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Burgarella, John P.; and Ellin, Seymour, 3,699,861.
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Kohl, Willibald F.; and Ellinger, Rudolph H., 3,681,091.
Kohl, Willibald F.; Sourby, John C.; and Ellinger, Rudolph H., 3,682,660.
- Ellings, Frank L.; and Milliron, Thomas E. Ladder dolly and winch. 3,666,054, 5-30-72, Cl. 187-10.
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Eisenhardt, Fred W.; and Ellingson, Hartley N., 3,642,333.
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- Elliot, Ian R., to Rank Organisation Limited, The. Method of making continuous fibre bundle. 3,655,352, 4-11-72, Cl. 65-4.
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Ericson, Richard E., 3,635,218.
Ericson, Richard E., 3,684,922.
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Elliott, Herbert James, 3,679,269.
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- Elliott Brothers (London) Limited: *See—*
Davies, Robin John; and Capewell, William Kenneth, 3,669,024.
Leat, Andrew Francis Vincent, 3,696,518.
Parkman, William Terence; and MacCormac, James Kenneth Maxwell, 3,670,149.
Patrickson, Brian Anthony, 3,657,558.
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Kuehnle, Manfred R.; Kok, Jurgen; and Jochimsen, Dieter, 3,705,294.
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- Elliott, Charles H.: *See—*
Cullen, Roy H.; and Elliott, Charles H., 3,673,785.
- Elliott, Curtis Homer, Jr.; and Mc Daniel, Carl Vance, to Grace, W. R., & Co. Preparation of high silica Faujasite. 3,639,099, 2-1-72, Cl. 23-112.
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United States of America, National Aeronautics and Space Administration, 3,648,083.
- Elliott, David Robert; and Greenway, John Michael, to Imperial Chemical Industries Limited. Apparatus for relaxing yarns. 3,644,968, 2-29-72, Cl. 28-1.2.
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- Elliott, Ernest A.; Kane, John W.; and Pasen, Randolph A., to Detroit Edison Company, The. Triple arrestor mount. 3,671,002, 6-20-72, Cl. 248-300.000.
- Elliott, Eugene R.; and Fieborg, Lehner C., to Culligan International Company. Regeneration control and timer system. 3,675,041, 7-4-72, Cl. 307-141.000.
- Elliott, Gary L.: *See—*
Burns, Thomas V.; Catterall, John M.; Elliott, Gary L.; and Fentemaker, Ronald E., 3,643,034.
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Kutsher, George S.; and Elliott, George A., 3,657,339.
- Elliott, George E., Jr.; Salomon, Jean; and Vogel, Roger F., to Gulf Research & Development Company. Preparation of hydrogenation catalysts. 3,639,272, 2-1-72, Cl. 252-442.
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Roman, Leonard F.; and Elliott, George H., 3,655,903.
- Elliott, Harold V., to General Motors Corporation. Engine starter and power transmission interlock system. 3,703,092, 11-21-72, Cl. 70-248.000.
- Elliott, Henry H., to United States of America, Navy. Time recovery system from a pulse modulated radio wave. 3,648,173, 3-7-72, Cl. 325-58.
- Elliott, Herbert E.; and Simons, Frank A., to Dow Chemical Company, The. Method of removing coolant from metal surfaces. 3,653,425, 4-4-72, Cl. 164-89.
- Elliott, Herbert James, to Elliott Associated Developments Limited. Transport of sulphur. 3,679,269, 7-25-72, Cl. 302-14.
- Elliott, James H. Automatic control system for front and loader. 3,643,828, 2-22-72, Cl. 214-762.
- Elliott, James H., to Electrical Constructors and Associates. Automatic stop joint for pipe-type cable. 3,652,777, 3-28-72, Cl. 174-11.
- Elliott, James Kelly; and Crawford, Douglas W., to Macco Oil Tool Co., Inc. Gas lift apparatus. 3,646,953, 3-7-72, Cl. 137-155.
- Elliott, James O.; and Jackson, George W., to General Motors Corporation. Control circuit for adjusting and regulating the speed of a brushless direct current motor responsive to voltages induced in the armature windings. 3,667,019, 5-30-72, Cl. 318-254.00.
- Elliott, James O., to General Motors Corporation. Segment wipe control for windshield wiper system. 3,675,103, 7-4-72, Cl. 318-281.000.
- Elliott, James O., to General Motors Corporation. Pressure responsive motor control circuit for vehicle leveling. 3,681,671, 8-1-72, Cl. 318-481.000.
- Elliott, James O., to General Motors Corporation. Windshield wiper system. 3,689,817, 9-5-72, Cl. 318-443.000.
- Elliott, James W.: *See—*
Surko, Walter E., Jr.; and Elliott, James W., 3,667,264.
- Elliott, James W., to Electronic Communications Inc. Transverse digital filter. 3,639,848, 2-1-72, Cl. 328-167.
- Elliott, John Scotchford; Edwards, Eric Descamp; and Jayne, Gerald John Joseph, to Castrol Limited. Additives for lubricating compositions. 3,632,613, 1-4-72, Cl. 260-401.
- Elliott, Joseph E., to International Business Machines Corporation. Compressed coding of digitized quantities. 3,686,631, 8-22-72, Cl. 340-146.03h.
- Elliott, Joseph Merelie, to Reyrolle Parsons Limited. Dynamo-electric machine rotors having internally cooled rotor windings. 3,652,882, 3-28-72, Cl. 310-61.
- Elliott, Melvin R., 1/2 to Hanscom, Genevieve I., Magnuson, Robert and Thomson, Lois J. Shuffle feed motion transmitting connection. 3,640,378, 2-8-72, Cl. 198-218.
- Elliott, Michael, to National Research Development Corporation. Substituted furoic acids and esters thereof. 3,647,824, 3-7-72, Cl. 260-347.5.
- Elliott, Perry R. Fluid mixing device. 3,671,025, 6-20-72, Cl. 161-76.000.
- Elliott, Phillip M., to Illinois Tool Works Inc. Alternate action mechanism. 3,691,333, 9-12-72, Cl. 200-153.00j.
- Elliott, Richard L.: *See—*
Breed, Laurence W.; Elliott, Richard L.; and Rosenberg, Harold, 3,702,317.
- Elliott, Robert L., to TRW Inc. Forged piston with circumferential grain flow around upper region of wrist pin bore and method of producing same. 3,654,840, 4-11-72, Cl. 92-222.
- Elliott, Robert M.: *See—*
Davis, Leonard P.; and Elliott, Robert M., 3,685,930.
- Elliott, Robert R., to Bell & Howell Company. Incremental rotation apparatus. 3,636,781, 1-25-72, Cl. 74-125.5.
- Elliott, Roger M., to British Steel Piling Company Limited, The. Fluid operated drop hammer with valved piston. 3,669,198, 6-13-72, Cl. 173-127.000.
- Elliott, William E.; and Huff, James R., to Globe Union Inc. Electrochemical cells. 3,645,795, 2-29-72, Cl. 136-86.
- Elliott, William G., to SpectraMetrics, Incorporated. Device for gas analysis. 3,651,322, 3-21-72, Cl. 250-43.5.
- Elliott, William G., to Spectra Metrics, Incorporated. Echelle spectrometer. 3,658,423, 4-25-72, Cl. 356-98.

- Elliott, William G., to Spectra Metrics, Incorporated. Method of focusing the horizontal and vertical components from an echelle grating. 3,658,424, 4-25-72, Cl. 356-98.
- Elliott, William S., to Collins Radio Company. Automatic control for amplitude modulated signal source. 3,662,290, 5-9-72, Cl. 332-38.
- Ellis (Colchester) Limited: *See—*
Ellis, Alan Elgar Herbert, 3,634,635.
- Ellis, A. B.: *See—*
Stewart, George W., 3,656,987.
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- Ellis, Alan F.; and Sabourin, Edward T., to Gulf Research & Development Company. Process for converting an olefin to a product containing higher and lower olefins. 3,646,143, 2-29-72, Cl. 260-683.
- Ellis, Alan F., to Gulf Research & Development Company. Process for preparing organic acids. 3,676,473, 7-11-72, Cl. 260-413.000.
- Ellis, Alan F.; Kresge, Alfred N.; and Seekircher, Richard, to Gulf Research & Development Company. Process for producing organic acids. 3,676,489, 7-11-72, Cl. 260-533.00r.
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- Ellis, Alfred Brian Edwin; and Shead, Colin James, to Marconi Company Limited, The. Memory cells. 3,693,170, 9-19-72, Cl. 340-173.0ff.
- Ellis, Belvin B.: *See—*
Millsop, William Q.; Ellis, Belvin B.; and Burkhardt, Charles E., 3,670,279.
- Ellis, Bernard; Petrow, Valdimir; and Stanway, David Neil. Process for the preparation of pregn-5-ene-4, 20-diones and intermediates in the production thereof. 3,641,008, 2-8-72, Cl. 260-239.55.
- Ellis, Brain, to Broadbent, Thomas, & Sons Limited. Control system for maintaining a variable inertia vibrating body substantially at resonance. 3,636,468, 1-18-72, Cl. 331-4.
- Ellis, Charles B., to Lennox Industries, Inc. Compressor block with banded motor. 3,666,380, 5-30-72, Cl. 417-415.
- Ellis, Clarence E. Integrated accessory group for pick-up trucks. 3,664,704, 5-23-72, Cl. 296-24.
- Ellis, Clarence E. Combined charcoal grill and pit barbecue cooker. 3,699,876, 10-24-72, Cl. 99-259.000.
- Ellis, Colin R. G.; and Lilly, Rodger H., to Welding Institute, The. Friction welding. 3,678,566, 7-25-72, Cl. 29-470.300.
- Ellis Corporation: *See—*
Toth, Alex; and Fesmire, Robert H., 3,672,820.
Toth, Alex, 3,681,952.
- Ellis, David H., to Rixson Inc. Closure operator. 3,646,877, 3-7-72, Cl. 98-110.
- Ellis, David J.; and Rammler, David, to Syntex Corporation. 5-Alkyl-1,6-fused cycloalkylene-tetra-hydro-1,5-diazine salts. 3,652,564, 3-28-72, Cl. 260-251.
- Ellis, David R.; Michels, John; and Gabbert, Ira, to Interdata, Incorporated. Processor servicing external devices, real and stimulated. 3,675,214, 7-4-72, Cl. 340-172.500.
- Ellis, Donald A., to Bestt Roll, Inc. Wipe-on paint applicator with pressurized feed. 3,690,779, 9-12-72, Cl. 401-266.000.
- Ellis Engineering, Inc.: *See—*
Ellis, John T., Jr., 3,688,501.
- Ellis, Forest M. Body attached stilts with vertically adjustable steps. 3,673,615, 7-4-72, Cl. 3-4.000.
- Ellis, Frank V., to Cameron Iron Works, Inc. Establishment of a seal between concentric surfaces in a high temperature environment. 3,657,783, 4-25-72, Cl. 29-157.1.
- Ellis, Fred S. Twist type spring clip. 3,633,253, 1-11-72, Cl. 24-261.
- Ellis, Gaylord O.; and Halat, John A., to Sperry Rand Corporation. Power transmission. 3,698,286, 10-17-72, Cl. 91-486.000.
- Ellis, George R.: *See—*
Belcher, Richmond D.; Duggan, Robert J.; Ellis, George R.; Esslinger, Robert H.; Goodyear, W. Frederick; Marshall, Joseph C.; and Masone, Thomas R., 3,656,148.
- Ellis, Gwynn Pennant; and Wragg, Arthur Hedley, to Fisons Pharmaceuticals Limited. Pharmaceutical compositions and methods for the treatment of allergic asthma. 3,652,765, 3-28-72, Cl. 424-282.
- Ellis, Jacob B. Rotatable hopper livestock feed dispenser. 3,669,076, 6-13-72, Cl. 119-52.00b.
- Ellis, James B.: *See—*
Lux, George K.; Ellis, James B.; and Schulze, John J., 3,685,894.
- Ellis, John D., Jr.: *See—*
Saccomano, Joseph M.; and Ellis, John D., Jr., 3,703,279.
- Ellis, John H., to Bendix Corporation, The. Electrical connector. 3,665,368, 5-23-72, Cl. 339-60.00r.
- Ellis, John T., Jr., to Ellis Engineering, Inc. Fluid pressure amplifier. 3,688,501, 9-5-72, Cl. 60-54.60a.
- Ellis, Jonas: *See—*
Dreimanis, Herbert V.; Spisz, Albert S.; Merlino, Eugene L., Jr.; and Ellis, Jonas, 3,664,481.
- Ellis, Larry C.; Chorkey, William J.; and Heideman, Robert J., to Ace Controls Inc. Adjustable shock absorber. 3,666,256, 5-30-72, Cl. 267-34.
- Ellis, Leonard C.: *See—*
Kise, Mearl A.; and Ellis, Leonard C., 3,647,876.
Kise, Mearl A.; and Ellis, Leonard C., 3,672,829.
- Ellis, Linus M., to Du Pont de Nemours, E. I., and Company. Increasing the sugar content of crops with α -ureidooxycarboxylic acids and their derivatives. 3,672,865, 6-27-72, Cl. 71-106.000.
- Ellis, Lowell V.: *See—*
Chaparro, John J.; Ellis, Lowell V.; Meanor, Doyle W.; Morton, William D., Jr.; Richelmann, Bernd H.; Ross, George B.; and Toth, John E., 3,677,401.
- Ellis, Myron P.; and Gavasso, Richard J., to Micromatic Hone Corporation. Electroplate honing method. 3,637,469, 1-25-72, Cl. 204-26.
- Ellis, Myron P.; Czubak, Albin S.; and McDonald, Keith A., to Micromatic Hone Corporation. Method for simultaneously machining the center bore of a gear workpiece and the end faces perpendicular to the axis of the center bore. 3,699,724, 10-24-72, Cl. 51-27.000.
- Ellis, Paul H.; Kibler, Ralph J.; and Kramer, Richard R., to United States of America, Army. Grenade launcher with pivotally mounted barrel. 3,641,691, 2-15-72, Cl. 42-1.
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Lerner, George; and Ellman, Julius, 3,660,926.
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Belter, John W.; Dockter, Leroy; and Ellman, Robert C., 3,668,145.
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Wilson, Earl D.; and Ellmann, Norbert W., 3,654,924.
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Tanigami, Satoshi, 3,690,531.
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Aoki, Chihiro; and Hirata, Takashi, 3,650,615.
Miyoshi, Katsuto; and Ichie, Kohji, 3,649,111.
Takeichi, Morio; and Ogura, Kazuhiko, 3,684,211.
Takeichi, Morio; and Ogura, Kazuhiko, 3,702,726.
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Mills, Edwin R.; and Elmore, Ernest L., 3,683,151.
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Walraven, Thomas A.; Maropis, Nicholas; Elmore, William C.; and Devine, Janet, 3,695,500.
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Peterson, Lowell E.; and Elmqvist, Lyle F., 3,649,331.
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Engel, Joseph C.; and Elms, Robert T., 3,648,106.
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Sennowitz, Kurt H., 3,649,802.
Sennowitz, Kurt H., 3,665,144.
Verner, Dalton R.; and Syria, Ronald L., 3,697,719.
Verner, Dalton R., 3,705,968.
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Derjckere, Antoon M.; and Eloy, Fernand G. F., 3,663,559.
Derjckere, Antoon M.; and Eloy, Fernand G. F., 3,666,765.
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Binard, Pierre C., 3,705,284.
Hensenne, Joseph F., 3,666,250.
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Becher, Elisabeth; Els, Hans; and Schocher, Arno Johannes, 3,634,461.
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Mikoteit, Franz; and Tennstedt, Hans-Joachim, 3,645,762.
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Matthew, Ian George; and Elsner, Dagwin, 3,656,941.
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Audretsch, Leo M., Jr.; and Elsner, Matthew, 3,697,697.
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Bauman, Joseph F.; and Elson, Arthur M., 3,688,802.
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Tatje, Joachim, 3,683,168.
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Kerr, Charles F., Jr., 3,705,279.
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Holliday, Jack D., 3,697,879.
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Johnsen, Erich Cornelius, 3,665,388.
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Browning, William C.; Perricone, Alphonse C.; and Elting, Katherine Anne C., 3,677,961.
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Nolte, Albert C., Jr., 3,694,354.
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Hardin, James T., 3,673,481.
Kerschbaum, Walter E., 3,664,510.
Noddin, Ray C., 3,651,795.
Willihnganz, Eugene A., 3,657,639.
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Menke, Franz, 3,653,768.
Menke, Franz, 3,667,739.
Menke, Joseph F., 3,690,594.
Siebecker, Hans; Wichmann, Gunter; and Kurotschka, Georg, 3,706,886.
- Eltschinger, Ernest: See—
Hausler, Thomas; Werren, Heinz; and Eltschinger, Ernest, 3,707,274.
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- Eltsov, Konstantin Sergeevich: See—
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Podola, Nikolai Vasilievich; Bondarenko, Oleg Petrovich; Leibenzon, Semen Abramovich; Kaganovsky, Gary Petrovich; Smolyakov, Vadim Filimonovich; Eltsov, Konstantin Sergeevich; Gabuev, Georgy Kharitonovich; and Gladky, Dmitry Fedorovich, 3,693,700.
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Crawford, David D.; and Elvington, John W., 3,662,918.
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Orendorff, Maxwell C.; and Mattern, Harvey L., 3,664,515.
- Elzy, Albert E.: See—
Stickers, Alexander P.; Elzy, Albert E.; and Czyl, Joseph L., 3,692,016.
- EMA-Dorries GmbH: See—
Goebels, Hermann, 3,639,832.
- Emanuel, Marom: See—
Mueller, Rolf K.; and Emanuel, Marom, 3,698,787.
- Emanuel, Nikolai Markovich: See—
Bljumberg, Erna Albertovna; Bobolev, Alexandr Vasilievich; Boboleva, Svetlana Pavlovna; and Emanuel, Nikolai Markovich, 3,674,813.
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Hellsten, Martin; and Emanuelsson, Jan, 3,655,569.
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Gorgone, Robert L.; and Emary, Robert J., 3,646,313.
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Gwathmey, Edward S.; and Embree, John M., 3,681,580.
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Meyer, William, 3,651,832.
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Sweeney, Frank B., 3,664,368.
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Paton, Boris Evgenievich; Latash, Jury Vadimovich; Medovar, Boris Izrailevich; Emelianenko, July Georgievich; and Kljuev, Mikhail Markovich, 3,670,089.
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- Palermitti, Frank M.; Royka, Stephen F.; Sullivan, William A., Jr.; and Emerald, Robert L., 3,635,704.
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Smith, Eric P., 3,681,799.
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- Emerick, Carl M.: See—
Holub, Fred F.; and Emerick, Carl M., 3,651,012.
Holub, Fred F.; and Emerick, Carl M., 3,652,710.
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Henderson, Craig, 3,699,050.
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Balven, Martin H., 3,672,531.
Brundage, Robert Wesley, 3,680,313.
Brundage, Robert Wesley, 3,680,989.
Brundage, Robert Wesley, 3,695,791.
Caroleo, Steven J., 3,665,155.
Cohn, Seymour B., 3,662,393.
Des Jardins, James, 3,673,895.
Drugmand, Lester D.; and Cunningham, Donald M., 3,644,710.
Drugmand, Lester D.; and Kozbelt, Lloyd S., 3,668,598.
Drugmand, Lester D.; and Temple, Sidney J., 3,673,385.
Drugmand, Lester D.; and Temple, Sidney J., 3,673,386.
Drugmand, Lester D.; and Volker, John F., 3,673,387.
Gould, Richard E.; Munson, Arden L.; and Wylder, Walter A., 3,634,801.
Gruswitz, Frank A., 3,687,600.
Hoft, Richard G.; and Kume, Tsuneo, 3,694,730.
Klanatsky, John J., 3,671,879.
Klein, Leo I., 3,702,387.
Krausser, Friedrich Johann, 3,652,914.
Krausser, Friedrich Johann, 3,701,951.
Krausser, Friedrich Johann, 3,706,041.
McFarlane, William, 3,632,463.
McFarlane, William, 3,659,338.
Munson, Robert D., 3,659,146.
Munson, Robert D., 3,700,962.
Stackhouse, James L., 3,656,519.
Teske, Daniel E., 3,665,219.
Thompson, Walter W., 3,690,365.
Unger, Robert W.; and Sunderman, Wallace H., 3,696,507.
Wright, James A.; and Lindberg, Allan W., 3,672,810.
- Emerson, Howard J.: See—
Blaisdell, William H.; Cornelius, Edward C.; and Emerson, Howard J., 3,663,824.
- Emerson, Jerry M.: See—
Clurman, Morton P.; and Emerson, Jerry M., 3,641,612.
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Bobart, George F.; and Emerson, William A., 3,705,967.
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Dorfman, Edwin; and Emerson, William E., 3,637,628.
Dorfman, Edwin; and Emerson, William E., 3,637,629.
Dorfman, Edwin; and Emerson, William E., 3,637,630.
Dorfman, Edwin; and Emerson, William E., 3,644,300.
Dorfman, Edwin; Emerson, William E.; Bean, Claude T., Jr.; and Carr, Russell L. K., 3,669,941.
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Bradley, Chester D., 3,633,695.
Bradley, Chester D.; and Tate, Malcolm C., 3,646,854.
- Emery, Anthony G.: *See*—
Weaver, David R.; Emery, Anthony G.; and Spearing, Michael Henry, 3,659,111.
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- Emery, George E.: *See*—
Day, Frederic F.; Emery, George E.; and Dadura, James G., 3,706,632.
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Boehringer, Raymond H., 3,649,570.
Boylan, Jack B.; and Sturwold, Robert J., 3,679,617.
Dumont, Thomas P., 3,694,257.
Ludwig, Jerome H., 3,660,331.
Piepmeyer, Joseph A., 3,635,656.
Sharkey, Hubert Joseph; and Sturwold, Robert J., 3,700,618.
Staker, Donald D.; Plantholt, Richard H.; and Kriege, David J., 3,649,657.
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Emery, Roy W.; and Emery, John R., 3,661,707.
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Emery, William M., 3,667,074.
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Burtis, Winfield R., 3,680,329.
De Barge, Raymond R., 3,681,893.
Foster, Thomas V.; and Nebelung, Herman H., 3,653,870.
Gerlach, John R.; and Morrensens, Clarence B., 3,699,788.
Gerlach, John R., 3,704,036.
Johnson, Lloyd D.; Kroeber, Kenneth E.; and Raudat, John L., 3,702,524.
Kulig, Constantine W., 3,701,407.
Kulig, Constantine W., 3,704,623.
Lattke, Horst G., 3,683,755.
Nebelung, Hermann H.; and Jaeger, Eginhard, 3,666,433.
Prete, John A.; and Raudat, John L., 3,673,756.
Raudat, John L.; Johnson, Lloyd D.; and Cuneo, Anthony L., 3,635,322.
Raudat, John L.; and Johnson, Lloyd D., 3,648,427.
Stephens, Edward J., 3,639,067.
Stevenson, James F., 3,670,908.
Surko, Walter E., Jr.; and Elliott, James W., 3,667,264.
Tebo, Walter J., 3,690,202.
- EMI Limited: *See*—
Jackson, Brian; and Barrett, John Eric, 3,686,588.
Rand, Walter Leslie; and Simmons, John Ernest, 3,671,158.
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Bullen, Leslie Gerald, 3,631,550.
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Arneth, Reinhold; Trittler, Hans; and Emig, Jürgen, 3,666,458.
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Della Porta, Paolo; and Emili, Carlo, 3,636,302.
Della Porta, Paolo; Zucchinielli, Mario; Rabusin, Elio; and Emili, Carlo, 3,663,121.
Della Porta, Paolo; Zucchinielli, Mario; and Emili, Carlo, 3,667,513.
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Hansen, Poul E., 3,677,237.
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Bergmeyer, Hans Ulrich; Naher, Gotthilf; Thum, Waldemar; Lauerer, Albert; and Emmer, Rudolf, 3,677,901.
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Krizman, Theodore M.; and Emmons, Clayton M., 3,668,576.
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Eggers, Robert F.; and Emmons, Donald L., 3,695,041.
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Valbona, Bruno M.; Emmons, Robert J.; and Samuelian, Maurice P., 3,667,084.
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Lewis, Sheldon N.; Merritt, Richard F.; and Emmons, William D., 3,678,098.
Lewis, Sheldon N.; Merritt, Richard F.; and Emmons, William D., 3,694,393.
Lewis, Sheldon N.; Merritt, Richard F.; and Emmons, William D., 3,702,799.
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Emond, Armand J.; and McDonald, Duncan B. (said McDonald *assor.* to said), 3,635,430.
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- Emond, Henri: *See*—
Lapointe, Yves Anselme; Simard, Guy; Emond, Henri; and Delisle, Pierre A., 3,637,254.
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- Emory, Thomas M., Jr.: *See*—
Moyer, Ronald G.; and Emory, Thomas M., Jr., 3,705,988.

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Kunita, Takaji; Motoki, Masaya; Emoto, Kazuhiro; and Hojo, Katsuo, 3,671,646.
- Emoto, Masayuki: *See*—
Iimura, Tsutomu; Kurokawa, Susumu; and Emoto, Masayuki, 3,640,867.
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- Empire Products, Inc.: *See*—
Newman, Albert P., 3,644,869.
- Empire Products, Inc., *mesne*: *See*—
Newman, Albert P., 3,676,837.
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Girardin, Howard N., 3,675,291.
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Emrick, Homer R., 3,682,112.
- E.M.S. Holdings Pty. Ltd.: *See*—
Powell, George, 3,693,789.
- Emshwiller, MacLellan, to Bell Telephone Laboratories, Incorporated. Optical wave correlation. 3,706,881, 12-19-72, Cl. 235-181.000.
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Chamberlin, Richard M.; Emswiller, James L.; Calderwood, Andrew S.; and Stana, Regis R., 3,658,955.
- En Dean, Howard J.: *See*—
Beach, Horace J.; En Dean, Howard J.; Frawley, Frank E.; and Yates, Dick, 3,669,700.
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Uchida, Hiromu; Umezono, Akimi; Saito, Takao; and Enari, Tsutomu, 3,671,205.
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Enchelmaier, William F.; Enchelmaier, Harvard W. K.; and Enchelmaier, William J., 3,678,523.
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Enchelmaier, William F.; Enchelmaier, Harvard W. K.; and Enchelmaier, William J., 3,678,523.
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Sheers, Edward Helmut; and Encke, Frederick Ludwig, 3,671,461.
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- Encon Manufacturing Company: *See*—
Toeke, Lester W., 3,656,711.
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- Ende, Dietrich: *See*—
Hofmann, Dionys; and Ende, Dietrich, 3,688,380.
- Ende, Kurt Hans Dietrich, to Dionys Hofmann Maschinenfabrik GmbH. Balance weight for vehicle wheels. 3,669,500, 6-13-72, Cl. 301-5.00b.
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Naughton, James Gordon, 3,636,727.
- Ender, Manfred, to Windmoller & Holcher. Pair of carrying handles of flexible plastics material for carrier bags of plastics. 3,665,551, 5-30-72, Cl. 16-110.
- Enderbrock, Edward N.; and Bodine, Charles M., to IPT Corporation. Photo-printing apparatus. 3,687,546, 8-29-72, Cl. 355-73.000.
- Enderley, Arthur E.: *See*—
Adams, Joseph E.; Di Stefano, Edmund J.; and Enderley, Arthur E., 3,693,087.
- Di Stefano, Edmund J.; Enderley, Arthur E.; and Hoffman, Robert C., 3,654,589.
- Di Stefano, Edmund J.; and Enderley, Arthur E., 3,673,542.
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- Endo, Hiroshi: *See*—
Umeda, Kaoru; Ishii, Kenjiro; and Endo, Hiroshi, 3,690,532.
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Sueda, Hideo; Yamawaki, Takeshi; Kida, Keiichi; Hayashi, Masahiro; Endo, Kazuo; and Kaneko, Mamoru, 3,639,553.
- Endo, Kinio: *See*—
Wakamatsu, Hisato; and Endo, Kinio, 3,692,003.
- Endo, Kumaji; Ebisawa, Fumio; and Muratani, Masao, to Japan Drive-It Co., Ltd. Pin driving tool. 3,643,850, 2-22-72, Cl. 227-8.
- Endo, Kunio, to Nippondenso Kabushiki Kaisha. Fuel injection control system for internal combustion engine. 3,664,311, 5-23-72, Cl. 123-32.
- Endo Laboratories, Inc.: *See*—
Lachman, Leon; Reiner, Roy H.; Shami, Elie; and Spector, Walter, 3,676,557.
Pachter, Irwin J.; and Schoen, Karl, 3,636,042.
Pachter, Irwin J.; and Schoen, Karl, 3,642,794.
Pachter, Irwin J.; and Rubin, Alan A., 3,644,631.
- Endo, Norio: *See*—
Hosokawa, Kenjiro; Matsui, Masao; Endo, Norio; Ichikawa, Michio; and Tokura, Susumu, 3,668,001.
- Endo, Tadao; and Hosika, Mituhisa, to Omron Tateisi Electronics Co. Traffic signal control system. 3,652,983, 3-28-72, Cl. 340-40.
- Endo, Takaya: *See*—
Iwama, Masabuni; Inoue, Isaburo; Takei, Yutaka; and Endo, Takaya, 3,664,841.
Iwama, Masakuni; Yamamoto, Toshihiko; Kasai, Keiji; Nakagawa, Yoshinobu; and Endo, Takaya, 3,649,285.
Iwama, Masakuni; Inoue, Isaburo; Hanzawa, Teruo; Sakamoto, Kenro; and Endo, Takaya, 3,658,544.
Iwama, Masakuni; Inoue, Isaburo; Hanzawa, Teruo; Sakamoto, Kenro; and Endo, Takaya, 3,669,671.
Iwama, Masakuni; Inoue, Isaburo; Fujiwara, Mitsuto; Hanzawa, Teruo; Kojima, Tamotsu; Yamamoto, Toshihiko; and Endo, Takaya, 3,684,514.
Iwama, Masakuni; Inoue, Isaburo; Hanzawa, Teruo; Sakamoto, Kenro; and Endo, Takaya, 3,694,214.
- Endo, Tetsuzo: *See*—
Ishihara, Toshio; Okazaki, Takayoshi; Endo, Tetsuzo; Koichi, Tanizawa; and Nakajima, Sataro, 3,653,826.
- Endo, Tsunehiko, to Hokuiku Electric Industry Co., Ltd. Method of making a printed resistor. 3,648,364, 3-14-72, Cl. 29-620.
- Endo, Tuyosi: *See*—
Okazaki, Masahide; and Endo, Tuyosi, 3,688,355.
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Kameoka, Akio; Nakamura, Shinichi; Makino, Shinichi; Endoh, Kenjiro; and Kuriyagawa, Mamoru, 3,668,294.
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- Endress, James W.: *See*—
Anderson, Carl M.; and Endress, James W., 3,700,355.
King, Maurice; and Endress, James W., 3,645,643.

- Mount, Gordon L.; and Endress, James W., 3,645,112.
 Mount, Gordon L.; and Endress, James W., 3,705,499.
 Osborne, William T.; and Endress, James W., 3,650,634.
 Endress, James W.; and Anderson, Carl M., to Carrier Corporation. Heating and cooling apparatus. 3,635,041, 1-18-72, Cl. 62-117.
 Endress, James W.; Byrns, Edson H.; and Anderson, Carl M., to Carrier Corporation. Diffuser valve mechanism for centrifugal gas compressor. 3,667,860, 6-6-72, Cl. 415-150.000.
 Endsley, Donald L.: See—
 Wöhrlich, Joseph F.; and Endsley, Donald L., 3,654,411.
 Endter, Norman G., to Goodyear Tire & Rubber Company, The. Tire tread compositions. 3,638,702, 2-1-72, Cl. 152-330.
 Endter, Norman G.; and Jenkins, Frank J. Heat stable polyester cord reinforced rubber structure. 3,638,703, 2-1-72, Cl. 152-330.
 Endura Board International, Inc.: See—
 Pittman, Phillip D.; and Peters, Michael L., 3,696,541.
 Ene, Lucian: See—
 Costa, Eugen; Ene, Lucian; Dumitrescu, Stelica; and Covaci, Ioan, 3,695,333.
 Enequist Chemical Co., The: See—
 Schwartz, Walter; Berkowitz, William H.; and Esquenet, Bernard E., 3,681,211.
 Enercon International Limited: See—
 Pennachetti, John T.; and Boux, Joseph F., 3,669,703.
 Energoresursov Predpriyati Chernoi Metallurgii: See—
 Andoniev Sergei Mikhailovich; Zhigulev, Petr Georgievich; Kudinov, Gennady Alexandrovich; Filipiev, Oleg Vladimirovich; and Energoresursov Predpriyati Chernoi Metallurgii, 3,704,747.
 Energy Absorption Systems, Inc.: See—
 Young, Bruce O.; Walker, Grant W.; Ford, Duane B.; and Seegmiller, Wan, 3,672,657.
 Young, Bruce O.; Walker, Grant W.; Ford, Duane B.; and Seegmiller, Wan, 3,674,115.
 Energy Conversion Devices, Inc.: See—
 Feinleib, Julius, 3,636,526.
 Feinleib, Julius, 3,665,425.
 Feinleib, Julius; Klose, Peter H.; and Ovshinsky, Stanford R., 3,678,852.
 Feinleib, Julius; and Shaw, Robert F., 3,696,344.
 Fleming, Gordon R.; and Ovshinsky, Stanford R., 3,647,664.
 Fleming, Gordon R., 3,659,149.
 Henisch, Heinz K., 3,656,032.
 Klose, Peter H.; and Ovshinsky, Stanford R., 3,659,936.
 Klose, Peter H., 3,689,933.
 Neale, Ronald G.; and Ovshinsky, Stanford R., 3,634,927.
 Neale, Ronald G., 3,675,090.
 Neale, Ronald G., 3,699,543.
 Ovshinsky, Stanford R., 3,644,741.
 Ovshinsky, Stanford R., 3,654,864.
 Ovshinsky, Stanford R., 3,698,006.
 Energy Conversion Limited: See—
 Argent, Edwin John; and Gillespie, Peter J., 3,642,540.
 Energy Conversion Systems, Inc.: See—
 Nul, Lawrence E., 3,636,859.
 Energy Industries (Canada) Ltd., mesne: See—
 Hey, Denis; and Dieterman, Alfred Johannes, 3,653,827.
 Energy Sciences, Inc.: See—
 Quintal, Bertram S., 3,702,412.
 Energy Systems, Inc.: See—
 Woodbridge, David D.; and Mann, Leland A., 3,671,741.
 Eness Research & Development Corporation: See—
 Stiglich, Nicholas M., 3,645,405.
 Eng, Albert: See—
 Laura, James F.; and Eng, Albert, 3,689,894.
 Eng, Albert, to Foto-Mem, Inc. Microfiche reproduction system. 3,679,304, 7-25-72, Cl. 355-41.000.
 Eng, Jackson: See—
 Bichard, John A.; and Eng, Jackson, 3,644,433.
 Eng, Joseph W.; and Lin, Stanley C. F., to Lin Eng Corporation. Method of and apparatus for purifying polluted gases. 3,643,623, 2-22-72, Cl. 116-137.
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 Eng, Stanley, to Glyco Chemicals, Inc. Producing lactic acid esters of fatty acids. 3,636,017, 1-18-72, Cl. 260-410.9.
 Engalitcheff, John, Jr., to Baltimore Aircoil Company, Inc. Fluid strainer. 3,700,110, 10-24-72, Cl. 210-308.000.
 Engbert, Reiner, to Telefonken Patentverwertungsgesellschaft m.b.H. Method of producing one or more large integrated semi-conductor circuits. 3,633,268, 1-11-72, Cl. 29-574.
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 Engbretson, Gerald C.: See—
 Clark, Harold V.; and Engbretson, Gerald C., 3,686,469.
 Engdahl, Paul D. Instrument and method for recording mechanical transients. 3,683,397, 8-8-72, Cl. 346-1.000.
 Engel, Alexander: See—
 United States of America, National Aeronautics and Space Administration, 3,648,250.
 Engel, Christopher M.; and Hepner, Charles F., to Zenith Radio Corporation. Luminance signal channel. 3,643,011, 2-15-72, Cl. 178-5.4.
 Engel, Clifford V.: See—
 Bryant, Raymond W.; and Engel, Clifford V., 3,662,776.
 Engel, Edward F.: See—
 Schlegel, Norman C., Jr.; and Engel, Edward F., 3,638,270.
 Engel, Elton D., to Ford Motor Company. Device for detecting and signaling a change of more than a prescribed amount in the rate of movement of an object. 3,655,928, 4-11-72, Cl. 200-61.45.
 Engel, Elton D.; and Miller, Richard H., to Ford Motor Company. Device for detecting and signalling a change of more than a prescribed amount in the rate of movement of an object. 3,655,929, 4-11-72, Cl. 200-61.45.
 Engel, Eric: See—
 Buhler, Allen C.; Engel, Eric; Nelson, John H.; and Amundson, Clyde H., 3,653,921.
 Engel, Harold J. Resistance welding electrode. 3,665,145, 5-23-72, Cl. 219-119.000.
 Engel, Harry C.; and Ardolino, Edward J., to Airline Systems, Inc. Patch press. 3,661,683, 5-9-72, Cl. 156-580.
 Engel, Heinz: See—
 Hess, Rudolf; and Engel, Heinz, 3,680,302.
 Mohr, Bernhard; Engel, Heinz; and Heijnis, James Watt Ij-sbrand, 3,698,614.
 Engel, Herbert: See—
 Hartwig, Karl; Engel, Herbert; and Schnall, Gunther, 3,672,764.
 Schnall, Gunther; and Engel, Herbert, 3,672,665.
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 Engel Industries, Inc.: See—
 Werner, Fred C., Jr., 3,654,830.
 Engel, John B.: See—
 Diring, James A.; Engel, John B.; and Broeren, John E., 3,700,181.
 Engel, Joseph C.: See—
 Wilson, John T.; and Engel, Joseph C., 3,660,722.
 Engel, Joseph C.; and Elms, Robert T., to Westinghouse Electric Corporation. Dynamic reactorless high frequency vapor lamp ballast. 3,648,106, 3-7-72, Cl. 315-291.
 Engel, Joseph C.; and Elms, Robert T., to Westinghouse Electric Corporation. Circuit breaker including improved current auctioneering circuit. 3,689,801, 9-5-72, Cl. 317-26.000.
 Engel, Karl, to Rolph-Clark-Stone Limited. Container closure. 3,658,237, 4-25-72, Cl. 229-41.
 Engel, Kurt, to Robapharm AG. Derivatives of benzoxazoline-2-one. 3,682,933, 8-8-72, Cl. 260-295.00f.
 Engel, Lawrence J.; and Gardiner, John Brooke, to United States of America, Army. Energetic propellant composition containing a difluoramine binder. 3,663,323, 5-16-72, Cl. 149-19.000.
 Engel, Lawrence J., to United States of America, Army. Explosive composition containing an energetic acrylate as binder. 3,666,576, 5-30-72, Cl. 149-19.000.
 Engel, Lawrence J.; Gianni, Michael H.; and Wiener, Charles, to Esso Research and Engineering Company. 1-Tris(difluor-amino) methoxy-2,2,2-trinitroethane. 3,692,837, 9-19-72, Cl. 260-584.00c.
 Engel, Lawrence J.; and Smith, Marvin F., Jr., to Esso Research and Engineering Company. Lubricant containing low ethylene content and high ethylene content ethylene-alpha-olefin copolymers. 3,697,429, 10-10-72, Cl. 252-59.000.
 Engel, Robert F., to Shell Oil Company. Well production method and apparatus. 3,704,567, 12-5-72, Cl. 55-43.000.
 Engel, Rolf: See—
 Mayer, Stephan; and Engel, Rolf, 3,659,569.
 Engel, Thomas Paul. Injection moulding apparatus with dynamic impact injection assist means and control therefor. 3,685,937, 8-22-72, Cl. 425-167.000.
 Engel, Walter; Flachsbarth, Dieter; and Schwarz, Hermann, to Siemens Aktiengesellschaft. Circuit arrangement for remote indication of the rotary movement of a shaft. 3,667,042, 5-30-72, Cl. 324-174.
 Engel, Walter H. Plastic article of manufacture impregnated with volatile matter. 3,688,985, 9-5-72, Cl. 239-54.000.
 Engel, William K.; Norick, William B.; Saint Germain, James L.; and Hakkenberg Van Gaasbeek, Peter, to Caterpillar Tractor Company. Hydrostatic button bearings for pumps and motors. 3,635,126, 1-18-72, Cl. 92-57.
 Engel, Wolfhard: See—
 Nickl, Josef; Engel, Wolfhard; Eckenfels, Albrecht; Seeger, Ernst; and Engelhardt, Gunther, 3,655,743.

- Seeger, Ernst; Engel, Wolfhard; Teufel, Helmut; Machleidt, Hans; Ueberberg, Heinrich; and Ihring, Hanns, 3,642,801.
 Engelbach, Heinz: See—
 Armbrust, Herbert; Sturm, Hans Juergen; Engelbach, Heinz; Wistuba, Hermann; Stoessel, Armin; and Krabetz, Richard, 3,699,134.
 Reuss, Guenter; Engelbach, Heinz; and Haug, Juergen, 3,651,160.
 Stoessel, Armin; and Engelbach, Heinz, 3,651,168.
 Engelbart, Fritz, to Orenstein-Koppel und Lubecker Maschinenbau A.G. Device for purifying polluted water. 3,647,081, 3-7-72, Cl. 210-150.
 Engelbart, Wilhelm, to Rheem International Inc. Pressing machine for garments. 3,670,432, 6-20-72, Cl. 38-22.000.
 Engelberger, Joseph F.: See—
 Dunne, Maurice J.; Engelberger, Joseph F.; Gardner, Horace L.; and Lindbom, Torsten H., 3,661,051.
 Engeler, William E.: See—
 Brown, Dale M.; and Engeler, William E., 3,641,405.
 Engeler, William E.; and Brown, Dale M., to General Electric Company. Method and apparatus for providing thermal contact and electrical isolation of integrator circuits. 3,686,748, 8-29-72, Cl. 29-577.000.
 Engeler, William E., to General Electric Company. Method of fabricating buried metallic film devices. 3,691,627, 9-19-72, Cl. 29-571.000.
 Engelfried, Otto; Neumann, Friedmund; and Wiechert, Rudolf, to Schering AG. 17 β -Hydroxy-18-methyl-4-estrene-3-one and derivatives thereof. 3,641,013, 2-8-72, Cl. 424-243.
 Engelhard, Bruno: See—
 Brandt, Hans-Walther; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; Schleppinghoff, Bernhard; and Schnuchel, Gunther, 3,655,806.
 Schliebs, Reinhard; Brandt, Hans-Walther; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; and Schnuchel, Gunther, 3,686,349.
 Swodenk, Wolfgang; Schwerdtel, Wulf; Losacker, Paul; and Engelhard, Bruno, 3,673,265.
 Engelhard Hanovia, Inc.: See—
 Bolt, Barry F., 3,649,863.
 Highberg, Carle W., 3,673,746.
 Engelhard, Helmut; Bentz, Francis; Giebler, Wolfgang; and Nischk, Gunther-Ernst, to Farbenfabriken Bayer Aktiengesellschaft. Acrylonitrile graft polymers. 3,634,545, 1-11-72, Cl. 260-873.
 Engelhard Minerals & Chemicals Corporation: See—
 Gillespie, George Richard, 3,660,024.
 Greenspan, Lawrence; and Strachil, Heinrich K., 3,637,473.
 Greenspan, Lawrence, 3,644,692.
 Greenspan, Lawrence, 3,679,553.
 Haden, Walter L., Jr.; and Dzierzanowski, Frank J., 3,647,718.
 Haden, Walter L., Jr.; and Dzierzanowski, Frank J., 3,657,154.
 Haden, Walter L., Jr.; and Dzierzanowski, Frank J., 3,663,165.
 Heuser, Gustav, 3,665,680.
 Hindin, Saul G.; Dettling, Joseph C.; and Larsen, William R., 3,650,989.
 Hindin, Saul G.; and Dettling, Joseph C., 3,662,011.
 Hindin, Saul G.; Bair, Daniel L.; and Steele, Duane R., 3,666,813.
 Keith, Carl D.; Cornely, Kurt W.; and Lee, Nathan D., 3,635,841.
 Keith, Carl D.; Dalsen, Milton H.; and Pfefferle, William C., 3,646,236.
 Keith, Carl D.; Haley, Alfred J., Jr.; and Kero, Robert M., 3,654,121.
 Keith, Carl D.; Haley, Alfred J., Jr.; and Kero, Robert M., 3,657,102.
 Keith, Carl D.; Haley, Alfred J., Jr.; and Kero, Robert M., 3,677,815.
 Keith, Carl D.; Haley, Alfred J., Jr.; and Kero, Robert M., 3,687,724.
 Keith, Carl D.; Mooney, John J.; and Vanmansart, Louis J., 3,692,497.
 Langley, Robert C., 3,691,052.
 Marschik, John F.; and Cernoch, Werner J., 3,652,265.
 Mercade, Venacio; and Weir, Samuel R., 3,635,337.
 Mercade, Venacio V., 3,656,895.
 Mercade, Venacio V., 3,655,038.
 Mercade, Venacio V., 3,701,417.
 Rubin, Leonard R., 3,698,050.
 Rylander, Paul N.; and Steele, Duane R., 3,655,777.
 Rylander, Paul N.; Karpenko, Irene M.; and Pond, George R., 3,694,509.
 Stephens, Frank H., Jr., 3,634,222.
 Stephens, Frank H., Jr.; Byrne, Paul B.; and Anderson, Edward P., 3,636,409.
 Weir, Samuel R., 3,670,883.
 Zysk, Edward D.; and Osowitz, Eugene E., 3,679,491.
 Engelhard, Philippe: See—
 Weisang, Joseph Edouard; and Engelhard, Philippe, 3,700,588.
 Engelhardt, Alan A. Speaker enclosure. 3,666,041, 5-30-72, Cl. 181-31.00b.
 Engelhardt, Albrecht: See—
 Koppe, Herbert; Engelhardt, Albrecht; Ludwig, Gerhard; and Zeile, Karl, 3,637,852.
 Koppe, Herbert; Engelhardt, Albrecht; Ludwig, Gerhard; and Zeile, Karl, 3,644,636.
 Schromm, Kurt; Mentrup, Anton; Zeile, Karl; Renth, Ernst-Otto; Engelhardt, Albrecht; and Traunecker, Werner, 3,673,187.
 Engelhardt, Alvin: See—
 Livshitz, Stanley L.; Engelhardt, Alvin; and Adler, Stanford L., 3,679,129.
 Engelhardt, Alvin, to Technicon Instruments Corporation. Self-locating sample receptacle having integral identification label. 3,680,967, 8-1-72, Cl. 356-246.000.
 Engelhardt, Bjorn H., to Raytheon Company. Variable impedance semiconductor network. 3,641,449, 2-8-72, Cl. 330-29.
 Engelhardt, Bjorn H., to Raytheon Company. Power regulating amplifier system. 3,706,925, 12-19-72, Cl. 323-22.00t.
 Engelhardt, Edward L.; and Remy, David C., to Merck & Co., Inc. Thioxanthone-10,10-dioxides. 3,697,544, 10-10-72, Cl. 260-328.000.
 Engelhardt, Gunther: See—
 Eberlein, Wolfgang; Heider, Joachim; Machleidt, Hans; and Engelhardt, Gunther, 3,644,330.
 Nickl, Josef; Engel, Wolfhard; Eckenfels, Albrecht; Seeger, Ernst; and Engelhardt, Gunther, 3,655,743.
 Engelhardt, Hans: See—
 Rohde, Robert P.; Welsh, Clarence E.; and Engelhardt, Hans, 3,674,385.
 Engelhardt, Horst: See—
 Weber, Karl Heinz; and Engelhardt, Horst, 3,633,081.
 Engelhardt, Jean Alfred: See—
 Burelle, Pierre; and Engelhardt, Jean Alfred, 3,660,184.
 Engelhardt, John Sherman; and Ebel, Lawrence, to Anaconda Wire and Cable Company. Temperature monitored cable system with telemetry read-out. 3,633,191, 1-4-72, Cl. 340-207.
 Engelhardt, Walter; and Bernhardt, Bruno Friedrich, to Drohmann, Carl, Gesellschaft mit beschränkter Haftung. Apparatus for wrapping bulky or stacked objects. 3,676,980, 7-18-72, Cl. 53-183.000.
 Engelhart, John E.: See—
 Litt, Arnold D.; and Engelhart, John E., 3,696,101.
 Lundberg, Charles A., Jr.; and Engelhart, John E., 3,705,910.
 Engelhart, John E., to Esso Research and Engineering Company. Certain 2-acylamino-4,5,6,7-tetrahydrobenzothiazoles. 3,682,945, 8-8-72, Cl. 260-306.80f.
 Engelhart, John E., to Esso Research and Engineering Company. 3,4,5-Trimethylcyclohexanol. 3,689,574, 9-5-72, Cl. 260-631.00r.
 Engelhart, John E., to Esso Research and Engineering Company. Malononitrile oxime derivatives. 3,694,482, 9-26-72, Cl. 260-455.00b.
 Engelhorn, Robert: See—
 Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfried, 3,661,903.
 Schmidt, Gunther; Engelhorn, Robert; Leitold, Matyas; and Machleidt, Hans, 3,634,408.
 Schmidt, Gunther; Engelhorn, Robert; and Leitold, Matyas, 3,660,380.
 Schmidt, Gunther; Engelhorn, Robert; and Leitold, Matyas, 3,691,159.
 Engelsing, Frederick S.; and Loyd, Calvin D., to Caterpillar Tractor Company. Tube fitting having tapered access opening and closure plug. 3,695,641, 10-3-72, Cl. 285-121.000.
 Engelman, Fred H.: See—
 Emerson, Paul D.; Davis, S. Jack; Oatfield, John C.; Engelman, Fred H.; and Bartee, Charles E., 3,633,632.
 Engelman, John C.: See—
 Herod, Donald M.; Engelman, John C.; and Johnston, William J., 3,692,383.
 Engelman, Karl. Adjustable shawl collar. 3,646,614, 3-7-72, Cl. 2-91.
 Engels, Floyd W.: See—
 Coolbaugh, Richard W.; and Engels, Floyd W., 3,670,067.
 Engels, Kaspar, to Draiswerke G.m.b.H. Stirring mill. 3,640,476, 2-8-72, Cl. 241-74.
 Engels, Kaspar, to Draiswerke G.m.b.H., Firma. Stirring mill. 3,652,021, 3-28-72, Cl. 241-172.
 Engels, Siegfried: See—
 Stosberg, Herbert; Fleischmann, Horst; Reinhardt, Gunter; and Engels, Siegfried, 3,705,438.
 Engels, Walter, to Olivetti, Ing. C., & C., S.p.A. Timing belt assembly. 3,659,472, 5-2-72, Cl. 74-231.
 Engels, Walter, to Deering Milliken Research Corporation. Yarn package winder. 3,667,092, 6-6-72, Cl. 28-21.
 Engelsberger, Herbert, to Feldmühle Aktiengesellschaft. Shrink-on package for stacked goods. 3,695,426, 10-3-72, Cl. 206-65.00s.
 Engelsner, Harvey J., to Horizon Industries Ltd. Cleansing device for surgical scrubs. 3,694,845, 10-3-72, Cl. 15-244.00c.
 Engelman, Jan Johannes; and Schoot, Cornelis Johannes, to U.S. Philips Corporation. Acid electroplating bath for depositing tin. 3,642,590, 2-15-72, Cl. 204-54.

- Engelsmann, Dieter: *See*—
Hackenber, Hubert; Zobel, Siegfried; Spinnler, Rainer; Becker, Erwin; and Engelsmann, Dieter, 3,633,477.
- Engelsmann, Dieter; Hackenberg, Hubert; Putscher, Johann; and Strittmatter, Rolf, to Agfa-Gevaert Aktiengesellschaft. Photocell circuit for providing indications of both available light and flash bulb readiness. 3,643,100, 2-15-72, Cl. 250-214.
- Engelsmann, Dieter; Maas, Dieter; and Zattler, Kurt, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with electronic exposure control. 3,657,984, 4-25-72, Cl. 95-11.
- Engelsmann, Dieter; Maas, Dieter; Schroder, Rolf; and Linke, Gerda, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with built-in rangefinder. 3,667,366, 6-6-72, Cl. 95-44.00c.
- Engelsmann, Dieter; and Schroder, Rolf, to Agfa-Gevaert Aktiengesellschaft. Exposure controlling structure for photographic apparatus. 3,668,988, 6-13-72, Cl. 95-11.00r.
- Engelsmann, Dieter; Hackenberg, Hubert; and Prummer, Helmut, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with automatically and manually adjustable shutter means. 3,688,661, 9-5-72, Cl. 95-11.00r.
- Engelsmann, Dieter; Hackenberg, Hubert; and Deeg, Karl, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus. 3,706,268, 12-19-72, Cl. 95-53.00r.
- Engemann, Gotthard: *See*—
Strickrodt, Jorg; Engemann, Gotthard; and Eulenhof, Hans-Gerd, 3,705,921.
- Enger, Carl C. Encapsulated non-permeable piezoelectric powered pacesetter. 3,659,615, 5-2-72, Cl. 128-419.
- Enger Kress Company: *See*—
Kery, Ervin, 3,677,317.
- Enger, Lars Sivert: *See*—
Blomberg, Peter Erik; and Enger, Lars Sivert, 3,681,938.
- Enger, Phillip F.: *See*—
Kalousek, George L.; and Enger, Phillip F., 3,693,411.
- Engert, Binz-Dieter, to Sud-Atlas-Werke G.m.b.H. Magnetic tape recorder. 3,684,212, 8-15-72, Cl. 242-201.000.
- Engert, Heinz: *See*—
Tupaj, Manfred Paul; and Engert, Heinz, 3,680,871.
- Engfer, Ortwin, to Bosch, Robert, G.m.b.H. Body levelling arrangement for a car. 3,632,131, 1-4-72, Cl. 280-124.
- Engfer, Ortwin, to Bosch, Robert, G.m.b.H. Automatic levelling arrangement for vehicles. 3,666,286, 5-30-72, Cl. 280-124.00f.
- Engh, James T.: *See*—
Bean, Donald E.; Engh, James T.; Hammer, James R.; Schettl, Myron D.; Tashjian, Harry J.; Ullmer, Richard J.; and Kerr, John W., 3,642,197.
- Engholdt, Richard K., to Erie Manufacturing Company. Apparatus for detecting the hardness level of water. 3,652,861, 3-28-72, Cl. 250-218.
- Engine Power Corporation: *See*—
Silverstein, Joseph J., 3,676,381.
- Engineered Data Products, Inc.: *See*—
Osojnak, Boris M., 3,650,388.
Osojnak, Boris M., 3,654,878.
- Engineered Products Company, The: *See*—
Hard, David A., 3,638,900.
- Engineered Products, Inc.: *See*—
Vance, Lawrence T., 3,678,625.
- Engineering Development Co., Inc.: *See*—
Reque, Albert K.; and Peterson, Julius T., 3,667,259.
- Engineering Field Services: *See*—
Colson, George P., 3,635,565.
- Englaender, Klaus: *See*—
Haberkorn, Erich J.; and Englaender, Klaus, 3,655,150.
- England, Alfred W.: *See*—
Mendelson, Myron J.; and England, Alfred W., 3,701,977.
- England, Alfred W., to Delaware SDS, Inc., mesne. Computer input-output system. 3,702,462, 11-7-72, Cl. 340-172.500.
- England, David C., to Du Pont de Nemours, E. I., and Company. Pyrogenic synthesis of perfluoroacryl fluoride. 3,641,142, 2-8-72, Cl. 260-544.
- England, David C.; Raasch, Maynard S.; and Sheppard, William Arthur, to Du Pont de Nemours, E. I., and Company. Preparation of 2,4-bis(hexafluoroisopropylidene)-1, 3-dithietane by reaction of perfluoroisobutene with selected alkali metal salts. 3,694,460, -26-72, Cl. 260-327.00m.
- England, George G., to Singer Company, The. Baffle for electric baseboard heater units. 3,679,868, 7-25-72, Cl. 219-368.000.
- England, Joseph F.: *See*—
Ament, Roland W.; and England, Joseph F., 3,634,587.
- England, Michael John; Donnell, Derrick; and Hales, Eric Charles. Vehicle braking system. 3,695,731, 10-3-72, Cl. 303-7.000.
- Englander, Irving G.: *See*—
Missio, Danilo V.; Wollman, Herbert; and Englander, Irving G., 3,690,767.
- Englar, William J.; and Dew, Donald C., to Western Farmers Association. Instant dehydrated hashed-brown potatoes. 3,635,729, 1-18-72, Cl. 99-207.
- Engle, Gordon A., to Honeywell Inc. Stainless steel snap acting mechanism with low resistance electrical path. 3,674,969, 7-4-72, Cl. 200-166.00c.
- Engle, Isaiah B. Method of incinerating refuse. 3,697,256, 10-10-72, Cl. 75-40.000.
- Engle, James P.; Oakes, Billy D.; and Reich, Cecil F., to Dow Chemical Company, The. Inhibitor. 3,634,270, 1-11-72, Cl. 252-149.
- Engle, Thomas H., to General Signal Corporation. Pneumatic torque motor unit. 3,667,350, 6-6-72, Cl. 92-113.000.
- Engle, Thomas H., to General Signal Corporation. Vent valve. 3,672,633, 6-27-72, Cl. 251-304.000.
- Engle, Thomas H., to General Signal Corporation. Brake head-centering device for railway brake apparatus. 3,696,892, 10-10-72, Cl. 188-212.000.
- Engle, Thomas H., to General Signal Corporation. Hydraulically operated hand brake-service brake system for railway cars. 3,707,309, 12-26-72, Cl. 303-13.000.
- Engle, William H., to Parker, Leslie I. Structures of two basic elements. 3,656,267, 4-18-72, Cl. 52-86.
- Engleman, Donald E., to American Air Filter Company, Inc. Tapered separator for pleated filter. 3,696,592, 10-10-72, Cl. 55-500.000.
- Engler, Louis C. Gate placer for levee. 3,670,508, 6-20-72, Cl. 61-63.000.
- Engler, Otto; and Muller, Meinhard, to Industrie-Werke Karlsruhe Aktiengesellschaft. Apparatus for making seals on tubular containers. 3,632,943, 1-4-72, Cl. 219-10.79.
- Engler, Otto; Hammer, Theodor; and Muller, Meinhard, to Industrie-Werke Karlsruhe Aktiengesellschaft. Apparatus for making seals on containers. 3,684,619, 8-15-72, Cl. 156-380.000.
- Engler, William P. Coupling unit. 3,657,941, 4-25-72, Cl. 74-417.000.
- Englert, Henry O. Heat exchanger for fireplaces. 3,635,211, 1-18-72, Cl. 126-121.
- Englesmann, Dieter: *See*—
Von Sybel, Reinhard; Englesmann, Dieter; and Fauth, Gunter, 3,646,862.
- Englhardt, Robert Anton, to Indal Canada Limited. Metal ladders. 3,638,759, 2-1-72, Cl. 182-194.
- English, Alan Taylour; and Turner, Paul Anthony, to Bell Telephone Laboratories, Incorporated. Technique for enhancing the stability of transition metal-gold thin film composites. 3,676,214, 7-11-72, Cl. 117-217.000.
- English Calico Limited: *See*—
Kemsey-Bourne, Kenneth, 3,671,348.
- English, Christopher Durrant, to Tracked Hovercraft Limited. Linear induction motor secondary member. 3,667,398, 6-6-72, Cl. 104-148.01m.
- English, Christopher Durrant, to Tracked Hovercraft Limited. Vehicle propelled by linear motor. 3,680,489, 8-1-72, Cl. 104-148.01m.
- English Clays Lovering Pochin & Company Limited: *See*—
Brociner, Ronald Eric; and Moon, William Raymond Collins, 3,659,718.
- Clayton, Thomas George, 3,642,968.
- Ferris, Andrew Paul, 3,661,610.
- Gwilliam, Ralph Derek, 3,687,287.
- Malden, Peter James, 3,635,744.
- Malden, Peter James, 3,666,513.
- Malden, Peter James, 3,674,558.
- Noble, Frank Raymond, 3,674,521.
- Ogle, Christopher John, 3,645,004.
- Toms, Gerald Lance, 3,674,529.
- English, Dolores J. Method of and apparatus for visual instruction. 3,673,711, 7-4-72, Cl. 35-62.000.
- English Electric Company Limited, The: *See*—
Ainsworth, John Desmond, 3,644,820.
- Ainsworth, John Desmond, 3,668,413.
- Braikewitch, Michael; and Goldwag, Emil, 3,644,053.
- Crick, Roger Dudley Salway, 3,679,527.
- Hutchinson, Desmond Ernest; and Bickerdike, John David, 3,656,239.
- Lorch, Hugh Olaf, 3,665,229.
- McMillan, Peter William; Partridge, Graham; and Ward, Frank Russell, 3,637,425.
- McMillan, Peter William; and Partridge, Graham, 3,647,489.
- Osborne, Colin Terry; and Burdett, Michael Keith, 3,644,718.
- Paddison, Eric; Wilson, Christopher George; and Gray, Frederick Martin, 3,699,431.
- Simpson, Michael Charles Stephen, 3,644,789.
- Unsworth, Robert George; and Bainbridge, Arnold, 3,645,544.
- English Electric Valve Company Limited: *See*—
Kennedy, Matthew Campbell, 3,644,769.
- Kennedy, Matthew Campbell; and Tourle, Peter, 3,644,771.
- Pickering, Alan Hugh, 3,659,145.
- Pickering, Alan Hugh, 3,707,639.
- Tompsett, Michael Francis, 3,646,267.
- English Electrical Company Limited, The: *See*—
Faulkes, Kenneth Milford; and Hayes, Alan Michael, 3,683,345.
- English, Frank F., to International Mfg. Co., Inc. Automotive wheel structure. 3,649,079, 3-14-72, Cl. 301-9.
- English, Geoffrey; and Mountfield, Brian Arthur, to Imperial Chemical Industries Limited. Manufacture of foams. 3,669,910, 6-13-72, Cl. 260-2.50n.

- English, Jack A., to CTS Corporation. Variable resistance control with end collector. 3,670,285, 6-13-72, Cl. 338-175.000.
- English, John R., 1/2% to DiBenedetto, Joseph R., Jr. Combined billiard balls rack and indicator for placing the balls. 3,680,859, 8-1-72, Cl. 272-22.000.
- English, John Walter, to National Research Development Corporation. Hydrofoils for ships and like vessels. 3,680,511, 8-1-72, Cl. 114-162.000.
- English Numbering Machines Limited: *See*—
Brooke, Edric Raymond, 3,633,845.
- Brooke, Edric Raymond, 3,641,283.
- Bud, Hans, 3,670,580.
- Huber, Manfred; Klimek, Norbert; and Dee, Kenneth Herbert William, 3,673,956.
- Klimek, Norbert, 3,682,413.
- English Sewing Limited: *See*—
Bose, Otindra Nath, 3,703,075.
- English Steel Corporation, Limited: *See*—
Wilson, Eric John; Brigg, Alan Henry; and Timmons, Eric, 3,705,555.
- English, William A.: *See*—
Young, Robert R.; and English, William A., 3,643,120.
- Young, Robert R.; and English, William A., 3,680,984.
- English, William D.: *See*—
Randle, Walter N.; Spieth, Howard H.; and English, William D., 3,673,871.
- Englund, Gosta Roland; and Tice, Richard Reuben, to Svenska Dataregister AB. Converting device. 3,668,692, 6-6-72, Cl. 340-347.00p.
- Englund, Gosta Roland; Eriksson, Bjorn Sven Hilding; Mattsson, Mats Erik; and Lindelow, Claes-Goran, to Svenska Dataregister AB. Control apparatus. 3,700,863, 10-24-72, Cl. 235-62.00f.
- Englund, James A.; and Popek, Stephen, to Alcan Aluminum Corporation. Ceiling suspension system. 3,678,641, 7-25-72, Cl. 52-484.000.
- Engman, Bert Hjalmar: *See*—
Udden, Per Edward Carl; Engman, Bert Hjalmar; and Graf, Siegfried, 3,664,450.
- Engstrom, Carl J., to Inter Royal Corporation. Chair control and support. 3,656,805, 4-18-72, Cl. 297-302.
- Engstrom, George L. Lock plug shell. 3,690,132, 9-12-72, Cl. 70-373.000.
- Engstrom, Hans-Erik, to Sunda Aktiebolag. Removal of entrained air from cellulose pulp before bleaching of the pulp. 3,668,063, 6-6-72, Cl. 162-19.000.
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Sakamoto, Toemon, 3,685,553.
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Moilanen, Veikko Mauri, 3,673,031.
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Long, Frank; and Ensor, Gordon R., 3,634,130.
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Breitfuss, Roman, 3,689,190.
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Hoffsommer, Walter A., and Hodgins, Howard A., 3,633,524.
Taylor, Lewis A., 3,675,623.
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Saubestre, Edward B., 3,666,447.
Wiczorek, Theophil J., 3,666,667.
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Soulie, Guy; and Lozach, Gerard, 3,697,104.
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Soum, Rene, 3,665,665.
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Munoz, Enrique, 3,632,075.
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Hoard, Norman F.; and Edick, Lee, 3,691,558.
Lankford, Barre D.; and Lanham, Charles W., 3,675,181.
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Madelung, Gero Otto, 3,645,478.
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Edwards, John H., 3,633,817.
Manoogian, Dickran, 3,704,839.
Waterman, John E., 3,705,548.
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Brown, Russell W., 3,653,535.
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Bochinski, Julius H., 3,699,559.
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Schwartz, William H., Jr.; and Maxwell, Billy D., 3,665,871.
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Feldman, Stephen Lew, 3,675,480.
- Environcing, Inc.: See—
McIlvaine, Robert L.; and Kent, Roger E., 3,685,261.
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Papp, Joscf, 3,670,494.
Papp, Joscf, 3,680,431.
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Brown, Verne R., 3,699,432.
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Allen, Merton, 3,673,733.
Bird, Douglas, 3,704,952.
Grace, Richard C., 3,667,692.
Kawahata, Masayuki, 3,663,418.
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- Naydan, Theodore T., 3,647,137.
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- Rich, Theodore A., 3,632,210.
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- Skala, George F., 3,678,488.
- Skala, George Frank, 3,647,300.
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- Walther, Eric G., 3,640,688.
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Clements, Richard F., 3,669,040.
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Brown, Verne R., 3,651,695.
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Hunter, Allen Bruce, 3,705,099.
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Lowman, Malden C., Jr., 3,648,676.
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Coe, Sherman Michael, 3,658,031.
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Boorujy, Salem, 3,677,413.
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Grimshaw, Derald E., 3,662,890.
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Pierson, Robert M., 3,638,368.
Pierson, Robert M., 3,661,693.
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Rich, Theodore A., 3,664,740.
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Davis, Steven S., 3,679,061.
Davis, Steven S., 3,692,181.
Emmett, Robert C., Jr.; and Dahlstrom, Donald A., 3,672,067.
Emmett, Robert C., Jr., 3,681,238.
Emmett, Robert C., Jr.; Dahlstrom, Donald A.; and Brozovich, John C., 3,698,556.
Haymore, Ralph B., 3,679,056.
Takahashi, Yoshihiro; Moore, Robert T.; and Stephens, Thomas M., 3,703,355.
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Mytling, Lauritz E., 3,690,731.
Zuckerman, Mathew M.; and Molof, Alan H., 3,635,346.
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Leonard, George Hamlin; and Enyeart, Raymond J., 3,682,093.
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Weidlin von Boden, Alberto; and Enzian, Ernest, 3,664,288.
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Brusca, Donald R., 3,700,654.
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Hodge, Thomas, Jr.; and Bradie, Peter R. (said Hodge, Thomas, Jr. assor. to), 3,699,564.
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Bok, Hendrik F.; and Garcia, David A., 3,653,594.
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Howard, Donald W.; and Eppley, Dewey W., 3,662,333.
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- Epps, Richard H.: See—
Berger, Julius; Epps, Richard H.; Jenkins, Edward M.; and Tabenkin, Benjamin, 3,663,373.
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Boudouris, Angelo; and Plumadore, Harold M., 3,639,046.
Boudouris, Angelo; Kulish, Stanley J., Jr.; and Plumadore, Harold M., 3,640,611.
Boudouris, Angelo, 3,651,441.
Boudouris, Angelo; and Kulish, Stanley J., Jr., 3,663,936.
Boudouris, Angelo; and Gray, Geoffrey T., 3,684,144.
Boudouris, Angelo; and Kulish, Stanley J., Jr., 3,684,358.
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Suter, Hans; Zutter, Hans; and Brunner, Josef, 3,691,196.
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Miller, Herbert Edward, 3,701,978.
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Sklarz, William A.; Grenda, Victor J.; Lindberg, Glenn W.; and Epstein, Albert D., 3,644,391.
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Compton, Dinsdale M. J.; and Epstein, Barry D., 3,679,898.
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Barker, Sidney Alan; Somers, Peter John; and Epton, Roger, 3,702,804.
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McKinnon, Benjamin I., 3,675,303.
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Ort, Jay E., 3,645,040.
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Dill, Hans G.; Erb, Darrell M.; and Toombs, Thomas N., 3,633,078.
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Ambrogio, Vittorio; and Logemann, Willy, 3,669,966.
Angelucci, Romano, 3,674,864.
Giraldi, Pier Nicola; and Mariotti, Vittorio, 3,636,223.
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Sinclair, William, 3,678,477.
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Williams, Charles J., 3,658,260.
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Potter, Ronald D., 3,648,854.
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Engelhardt, Richard K., 3,652,861.
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Muse, George H.; and Keane, Peter J., 3,639,980.
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Tenpas, Emerson J., 3,678,723.
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Kiedrowski, Hugh P.; and Eriksen, Merrill K., 3,690,010.
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Backlund, Bernt S.; Forslund, Goran P. A.; and Eriksson, Eleon G., 3,665,522.
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Eriksson, Karl Tage Birger; and Eriksson, Ernst Osten Reimer, 3,633,323.
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 Fasth, Kenneth Ulf Folke, 3,667,717.
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 Erkin, Leonid Iosifovich: See—
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 Erlandson, Paul M.; Aschberger, Anton A.; Roth, Donald J.; Cary, John T.; and Bartimes, George F., to Continental Can Company, Inc. Inert atmosphere seam welder. 3,652,818, 3-28-72, Cl. 219-72.
 Erlandson, Paul M., to Continental Can Company, Inc. Square wave resistance welding. 3,654,422, 4-4-72, Cl. 219-81.
 Erlandson, Paul M.; Aschberger, Anton A.; and Cary, John T., to Continental Can Company, Inc. Inert atmosphere tack welder. 3,678,241, 7-18-72, Cl. 219-72.000.
 Erlandson, Paul M., to Continental Can Company, Inc. Article having surface treatment for welding. 3,686,462, 8-22-72, Cl. 219-93.
 Erlenbach, Harold W., Jr.: See—
 Yereance, Robert A.; and Erlenbach, Harold W., Jr., 3,703,665.
 Erlenbach, Walter, to Illinois Tool Works, Inc. Battery connector assembly. 3,670,297, 6-13-72, Cl. 339-232.000.
 Erlich, Giora: See—
 Lerner, Marc; and Erlich, Giora, 3,704,786.
 Erlich, Giora, to Hayward Manufacturing Company, Inc. Multiport valve. 3,640,310, 2-8-72, Cl. 137-625.46.
 Erlich, Giora. Skimmer assembly having an automatic shut-off weir. 3,706,379, 12-19-72, Cl. 210-169.000.
 Erlichman, Irving: See—
 Douglas, Lawrence M.; and Erlichman, Irving, 3,640,200.
 Land, Edwin H.; and Erlichman, Irving, 3,675,551.
 Erlichman, Irving, to Polaroid Corporation. Latch mechanism for a folding camera. 3,631,780, 1-4-72, Cl. 95-11.
 Erlichman, Irving, to Polaroid Corporation. Camera door latch. 3,633,474, 1-11-72, Cl. 95-11.
 Erlichman, Irving, to Polaroid Corporation. Camera frame member. 3,640,724, 2-8-72, Cl. 95-11.
 Erlichman, Irving; and Lawrence, Maxwell E., to Polaroid Corporation. Photographic film assemblage. 3,643,571, 2-22-72, Cl. 95-19.
 Erlichman, Irving, to Polaroid Corporation. Photographic apparatus. 3,653,308, 4-4-72, Cl. 95-13.
 Erlichman, Irving, to Polaroid Corporation. Folding camera. 3,668,991, 6-13-72, Cl. 95-39.
 Erlichman, Irving, to Polaroid Corporation. Film container. 3,672,276, 6-27-72, Cl. 95-19.000.
 Erlichman, Irving, to Polaroid Corporation. Photographic apparatus. 3,678,830, 7-25-72, Cl. 95-13.00r.
 Erlichman, Irving, to Polaroid Corporation. Photographic product. 3,682,062, 8-8-72, Cl. 95-13.00r.
 Erlichman, Irving, to Polaroid Corporation. Support member for preventing inverted insertion of a film cassette. 3,682,076, 8-8-72, Cl. 95-71.000.
 Erlichman, Irving, to Polaroid Corporation. Photographic apparatus. 3,687,032, 8-29-72, Cl. 95-13.000.
 Erlichman, Irving, to Polaroid Corporation. Self-developing reflex camera. 3,699,865, 10-24-72, Cl. 95-42.000.
 Erlichman, Irving, to Polaroid Corporation. Reflex member velocity control means. 3,701,304, 10-31-72, Cl. 95-42.000.
 Erlichman, Irving, to Polaroid Corporation. Reciprocating drawer type photographic apparatus and method. 3,702,580, 11-14-72, Cl. 95-13.000.
 Erlinder, Atwood E. Lift having self-folding platform. 3,675,739, 7-11-72, Cl. 187-1.000.
 Erlykin, Ivan Ivanovich; Vasin, Alexandr Ivanovich; Korotkov, Mikhail Mikhailovich; Maximov, Vadim Yakovlevich; Matveev, Ivan Ivanovich; Kadyshchev, Vladimir Alexandrovich; Volkov, Valentin Vladimirovich; Firsell, Vladimir Borisovich; Bulatkin, Vladimir Dmitriyevich; Malekhanov, Igor Evgenievich; and Suldin, Stanislav Nikolaevich. Hydrofoil watercraft. 3,693,570, 9-26-72, Cl. 114-66.50h.
 Erlykov, Nikolai Sergeevich: See—
 Kasatkin, Yuri Ivanovich; Filimonov, Alexandr Vasilievich; Erlykov, Nikolai Sergeevich; Chikirda, Sergei Ivanovich; Strashinsky, Vadim Konstantinovich; and Zeldin, Vladimir Pinsokhovich, 3,681,833.
 Erman, William F.: See—
 Fanta, Wayne I.; and Erman, William F., 3,644,505.
 Fanta, Wayne I.; and Erman, William F., 3,662,007.
 Fanta, Wayne I.; and Erman, William F., 3,673,263.
 Fanta, Wayne I.; and Erman, William F., 3,673,266.
 Gibson, Thomas W.; and Erman, William F., 3,658,851.
 Kretschmar, Herbert C.; and Erman, William F., 3,662,008.
 Kretschmar, Herbert C.; and Erman, William F., 3,673,261.
 Kretschmar, Herbert C.; and Erman, William F., 3,679,756.
 Erman, William F.; and Broadus, Charles D., to Procter & Gamble Company, The. Metalation of limonene and syntheses of limonene derivatives. 3,658,925, 4-25-72, Cl. 260-665.
 Ermanco Incorporated: See—
 Fleischauer, Fred J.; and Hammond, Theodore A. (said Hammond assor. to), 3,650,375.
 Fleischauer, Fred J.; and Hammond, Theodore (said Hammond assor. to), 3,696,912.
 Ermidis, Nicholas Peter, to American Cyanamid Company. Vulcanizable elastomer composition containing triarylphosphine and triallylcyanurate. 3,697,620, 100-72, Cl. 260-836.
 Ermolenko, Igor Nikolaevich: See—
 Dovgalev, Stepan Ilich; Ermolenko, Igor Nikolaevich; Buglov, Evgeny Danilovich; Danilov, Ivan Petrovich; and Longin, Mikhail Lvovich, 3,703,438.
 Ermolenko, Igor Nikolaevich; Sviridova, Remma Nikolaevna; and Kuvaeva, Zoya Ivanovna, to Institut Obschei i Neorganicheskoi khimii Akademii Nauk SSR. Pyrolytic carbon fiber. 3,702,832, 11-14-72, Cl. 252-423.000.
 Ermolova, Tatyana Ivanovna: See—
 Komarov, Nikolai Vasilievich; and Ermolova, Tatyana Ivanovna, 3,647,844.
 Ern, Klaus-Jürgen, to Zellweger Ltd. Apparatus for measuring limited flow capacities. 3,641,818, 2-15-72, Cl. 73-226.
 Ernbach, Erik Sverker: See—
 Axen, Rolf E. A. V.; Porath, Jerker Olof; and Ernbach, Erik Sverker, 3,645,852.
 Erne, Hansjorg; and Halma, Laszlo, to Derby-Anstalt. Automatic beverage dispenser with key control. 3,685,692, 8-22-72, Cl. 222-23.000.
 Ernest, Dale S., to Broughton, Jesse I. and Hannon, John G. Air humidifying system and compact spray humidifier for the same. 3,640,266, 2-8-72, Cl. 126-113.
 Ernest, Eric: See—
 Heyden, Vander; and Ernest, Eric, 3,703,627.
 Ernest-Lloyd Limited: See—
 Casey, Ernest D.; and Sole, Lloyd H., 3,673,629.
 Erni, Heinrich H., to Allis-Chalmers Manufacturing Company. Puffer type circuit interrupter. 3,674,956, 7-4-72, Cl. 200-148.00a.
 Ernick, Frederick G.; Kisinko, Paul M.; Marino, Joseph; and Kanam, Peter J., to Westinghouse Electric Corporation. EPI base high speed power transistor. 3,639,815, 2-1-72, Cl. 317-235.
 Ernick, Frederick G.; New, Thorndike C. T.; and Walczak, Donald A. Epitaxial base high speed PNP power transistor. 3,648,123, 3-7-72, Cl. 317-235.
 Ernie & Co., Firma: See—
 Hugelshofer, Max, 3,681,592.
 Ernisse, Paul J., to Eastman Kodak Company. Camera with metered film advance and double exposure prevention. 3,696,723, 10-10-72, Cl. 95-31.0fm.
 Ernolf, Stig Carl-Oskar: See—
 Crener, Bengt Olof; and Ernolf, Stig Carl-Oskar, 3,633,240.

- Crener, Bengt Olof; Anderson, Erik Arne; and Ernolf, Stig Carl-Oskar, 3,639,939.
 Ernsberger, Glenn W.: See—
 Kernick, Address; Geyer, Manvel A.; Ernsberger, Glenn W.; and Vonderembse, John F., 3,636,430.
 Kernick, Address; Geyer, Manvel A.; and Ernsberger, Glenn W., 3,648,150.
 Kernick, Address; and Ernsberger, Glenn W., 3,697,855.
 Ernst, Alfons; and Hoffing, Rudolf, to Heidenhain, Johannes, Dr. Apparatus for the measurable displacement of an object. 3,675,331, 7-11-72, Cl. 33-1.00m.
 Ernst, Alfons; and Jung, Werner, to Heidenhain, Johannes, Dr., Firma. Drive for rotatable parts. 3,705,518, 12-12-72, Cl. 74-410.000.
 Ernst, Arnold E. Row crop thinning implement. 3,658,136, 4-25-72, Cl. 172-54.
 Ernst, Carl J. Hunting boat. 3,638,257, 2-1-72, Cl. 9-5.
 Ernst, Charles H.; and Cawley, Martin Dean, to TRW Inc. Holographic apparatus utilizing a pulsed laser. 3,680,944, 8-1-72, Cl. 350-3.500.
 Ernst, Frank, to National Cash Register Company, mesne. Temperature-controlled soldering tool. 3,646,577, 2-29-72, Cl. 219-241.
 Ernst, Franz, to Chemie und Filter GmbH, Verfahrenstechnik KG. Apparatus for introducing additives into liquids. 3,642,171, 2-15-72, Cl. 222-59.
 Ernst, Hans; Semmler, Jurgen; Vohler, Otto; and Rubisch, Ottmar, to Sigi Elektrophysik Gesellschaft mit beschränkter Haftung. Hollow electrode assembly of carbon having densified graphite junction nipple. 3,659,139, 4-25-72, Cl. 313-357.
 Ernst, Herbert. Prefabricated joint. 3,653,697, 4-4-72, Cl. 287-56.
 Ernst, Lothar; and Ruggen, Werner, to Maschinenfabrik Stromag G.m.b.H. Flexible couplings. 3,678,708, 7-25-72, Cl. 64-11.00r.
 Ernst, Max. Mounting of a clutch member at the end of toy and model vehicles. 3,634,967, 1-18-72, Cl. 46-216.
 Ernst, Max. Electromagnetic control, especially for crossing gates of toy and model railroads. 3,641,466, 2-8-72, Cl. 335-190.
 Ernst, Max. Remote control for a stepwise adjustable device, especially turntable for toy and model railroads. 3,649,900, 3-14-72, Cl. 318-675.
 Ernst, Max. Turntable for toy and model railroads. 3,695,182, 10-3-72, Cl. 104-38.000.
 Ernst, Max. Turntable for electric toy and model railroad installations. 3,705,553, 12-12-72, Cl. 104-35.000.
 Ernst, Otto: See—
 Batzer, Hans; Nikles, Erwin; Ernst, Otto; and Porret, Daniel, 3,682,969.
 Ernst, Richard R., to Varian Associates. RF spectrometer employing modulation of a DC magnetic field to excite resonance. 3,681,680, 8-1-72, Cl. 324-50r.
 Ernst, Robert, to Textilana Corporation. N-(2-Hydroxyalkyl)sarcosine-N-oxides. 3,647,868, 3-7-72, Cl. 260-534.
 Ernst, Robert R., to Sybron Corporation. Method of controlling relative humidity in gaseous sterilizers. 3,687,612, 8-29-72, Cl. 21-58.000.
 Ernst, Runyon G.: See—
 Hoffmann, James E.; and Ernst, Runyon G., 3,658,510.
 Ernst, Wolfram: See—
 Brandt, Fritz; and Ernst, Wolfram, 3,665,510.
 Brandt, Fritz; Ernst, Wolfram; and Voegtlen, Dieter, 3,685,018.
 Ernsthansen, Roger E., to Owens-Illinois, Inc. Gas discharge display-memory panel having lead oxide coated dielectric plates with decreased aging time. 3,634,719, 1-11-72, Cl. 313-210.
 Erofeev, Boris Vasilievich: See—
 Bokov, Yuri Sergeevich; Vikulina, Ninel Vladimirovna; Dogadkin, Boris Aristarkhovich; Erofeev, Boris Vasilievich; Larina, Anastasia Vasilievna; Lavrishev, Vadim Petrovich; Markov, Vladimir Vladimirovich; Naumova, Sofia Fadeevna; Jurina, Olga Demidovna; an Yarovaya, Galina Dmitrievna, 3,674,496.
 Eron, Abbot; and Eron, Theodore. Double-end marking pen. 3,684,389, 8-15-72, Cl. 401-207.000.
 Eron, Robert E. Aerator and water treatment device. 3,653,641, 4-4-72, Cl. 261-18.
 Eron, Robert E. Foam-solids blender. 3,682,446, 8-8-72, Cl. 259-10.000.
 Eron, Theodore: See—
 Eron, Abbot; and Eron, Theodore, 3,684,389.
 Eros Camponovo: See—
 Cavalli, Fernando; and Cretti, Piero, 3,669,588.
 Eros, Peter S.; and Neubauer, Jerry L., to General Motors Corporation. Shelf bracket. 3,652,032, 3-28-72, Cl. 248-235.000.
 Eross, Bela: See—
 Hollo, Imre; Lengyel, Sandor; Hannauer, Milos; and Eross, Bela, 3,695,412.
 Erpelding, William J., Jr., to Monsanto Company. Display annunciator using SCR memory and digital logic circuitry. 3,688,294, 8-29-72, Cl. 340-213.100.
 Erpenbach, Heinz: See—
 Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; Glaser, Hermann; and Dyrschka, Helmut, 3,637,819.
 Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; Glaser, Hermann; and Dyrschka, Helmut, 3,650,986.
 Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; and Glaser, Hermann, 3,655,747.
 Sennewald, Kurt; Erpenbach, Heinz; Handte, Heinz; and Lork, Winfried, 3,689,541.
 Sennewald, Kurt; Erpenbach, Heinz; Vogt, Wilhelm; Lork, Winfried; and Prinz, Peter, 3,691,096.
 Sennewald, Kurt; Erpenbach, Heinz; Handte, Heinz; and Lork, Winfried, 3,692,829.
 Errut Products Limited: See—
 Fairweather, Ernest Sidney; and Furby, Jim, 3,695,722.
 Ersek, Robert A. Sever cord. 3,631,858, 1-4-72, Cl. 218-318.
 Ersek, Robert A. Patient carrier. 3,648,305, 3-14-72, Cl. 5-82.
 Ersek, Robert A., to University of Minnesota, The Regents of the. Method for fixing prosthetic implants in a living body. 3,657,744, 4-25-72, Cl. 3-1.
 Ersek, Robert A., to University of Minnesota, The Regents of the. Implantable prosthetic pass-through device. 3,638,649, 2-1-72, Cl. 128-214.
 Erspamer, James R.; and Snyder, George W., to Sperry Rand Corporation. Automatic gain control for an electromechanical transducer. 3,646,537, 2-29-72, Cl. 340-197.
 Erste Deutsche Floatglas G.m.b.H. & Co.: See—
 Classen, Franz; Kaes, Karl; Labrot, Gunter; and Pape, Heinz, 3,649,237.
 Pernet, Michel, 3,700,424.
 Erste Deutsche Floatglas GmbH & Co. OHG: See—
 Classen, Franz, 3,672,859.
 Ertel, Martin: See—
 Bachner, Alfred; Schneider, Karl; Ertel, Martin; and Schraml, Erika, 3,636,243.
 Erteszek, Jan J., to Olga Company. Panty girdle with decorative hose support. 3,662,760, 5-16-72, Cl. 128-535.000.
 Ertingshausen, Gehard; and Fabiny, Diane L., to Union Carbide Corporation. Process for the determination of creatinine body fluids. 3,682,586, 8-8-72, Cl. 23-230.000.
 Erunlu, Recep Kemalettin: See—
 Franck, Heinz-Gerhard; Oberkubusch, Rudolf; Turowski, Johannes; Collin, Gerd; Zander, Maximilian; Erunlu, Recep Kemalettin; Storch, Gunter; Buffleb, Herbert; and Sauerland, Hans-Dieter, 3,636,178.
 Ervin, Guy, III, to North American Rockwell Corporation. Process for a solid state cell by spraying with an organic solvent. 3,701,685, 10-31-72, Cl. 136-83.00r.
 Ervin, William D., to Aurora Equipment Company. Coil pickup device. 3,655,068, 4-11-72, Cl. 214-1.
 Erway, Bruce C.: See—
 Avdenko, Anatol; and Erway, Bruce C., 3,657,720.
 Erwin, Curtis L., Jr.; and Fosdick, Gene D. Exerciser with work indicating mechanism. 3,643,943, 2-22-72, Cl. 272-69.
 Erwin, Curtis L., Jr. Fuel system for diesel engines. 3,672,394, 6-27-72, Cl. 137-338.000.
 Erwin, Eugene S.; and Marco, Gino J., to Monsanto Company. Animal feed compositions and methods. 3,658,962, 4-25-72, Cl. 424-311.
 Erwin, John C.: See—
 Barton, Ralph L.; and Erwin, John C., 3,656,967.
 Erwin, John R.; and Vitale, Nicholas G., to General Electric Company. Turbomachinery vane adjustment mechanism. 3,639,075, 2-1-72, Cl. 415-163.
 Erwin, John R., to General Electric Company. Compressor for handling gases at velocities exceeding a sonic value. 3,692,425, 9-19-72, Cl. 415-181.000.
 Erwin, John R., to Garrett Corporation, The. Turbomachinery blade. 3,694,104, 9-26-72, Cl. 416-217.000.
 Erwin, Ronald L., 25% to Harter, Bernard Gerald. Measuring dispenser. 3,685,702, 8-22-72, Cl. 222-305.000.
 Erwin, Rudy, to Teledyne Industries, Inc. Method for making castable carbonitride alloys. 3,703,368, 11-21-72, Cl. 75-175.500.
 Erwin, Sick Firma: See—
 Walter, Arthur, 3,653,232.
 Erwin, Virgel G.: See—
 Aragbright, Perry A.; Erwin, Virgel G.; and Phillips, Brian L., 3,689,651.
 Erxleben, Ewald: See—
 Raban, Joachim; Erxleben, Ewald; and Wildenau, Wolfgang, 3,677,806.
 Esaka, Teruo, to Okamoto Chemical Industry Company Limited. Sensitizing layer. 3,674,495, 7-4-72, Cl. 96-91.00r.
 Esaki, Hideya: See—
 Naomoto, Susumu; Kaneko, Tadataka; and Esaki, Hideya, 3,675,091.
 Esaki, Leo: See—
 Chang, Leroy L.; and Esaki, Leo, 3,668,480.
 Esashi, Hanjiro; and Machida, Tetsuo, to Sony Corporation. Endless tape cartridge. 3,633,837, 1-11-72, Cl. 242-55.19.
 Esashi, Yoshiaki: See—
 Suzuki, Akira; Esashi, Yoshiaki; and Nakanishi, Tsunemoto, 3,687,397.
 ESB Incorporated: See—
 Bergum, Bernard C., 3,644,146.
 Bergum, Bernard C.; and Svardal, Per S., 3,647,586.

- Bergum, Bernard C.; and Kenyon, Kenneth H., 3,674,565.
 Bergum, Bernard C.; Bilhorn, John M.; Kenyon, Kenneth H.; Macaulay, William R.; and Youngquist, John A., 3,694,266.
 Bergum, Bernard C., 3,694,268.
 Bergum, Bernard C.; and Youngquist, John A., 3,706,616.
 Bilhorn, John M., 3,697,328.
 Cich, Everett Roy, 3,655,452.
 Coffey, James P.; and Veit, William E., 3,632,450.
 Coffey, James P.; and Vengrofski, Frank A., 3,644,149.
 Coffey, James P., 3,647,553.
 Cording, Wesley Townsend, 3,647,546.
 Daniel, Fred P., 3,647,555.
 Dermody, William J., 3,689,334.
 Dermody, William J.; and Varker, Alan E., 3,700,628.
 Dermody, William J.; and Oltman, John E., 3,701,690.
 Duddy, Joseph C., 3,702,266.
 Hamel, David O., 3,655,456.
 Hein, Edward R.; and Veit, William E., 3,645,793.
 Hoffmaster, George R.; and Prins, Jack M., 3,649,107.
 Jordan, Howard J.; and Niebes, Roger S., 3,649,366.
 Malchman, Franklin L.; and Radoi, William J., 3,686,634.
 Nervik, Torbjorn, 3,647,547.
 Nervik, Torbjorn, 3,663,296.
 Nordblom, George F.; and James, Herbert I., 3,639,176.
 Purcell, Thomas H., Jr., 3,669,320.
 Soto-Krebs, Luis A., 3,655,450.
 Tvarusko, Aladar, 3,650,832.
 ESB Incorporated, *mesne*: See—
 Clingenpeel, William R.; Cain, Charles L.; Hungerford, Philip C., Jr.; and Hayes, Robert R., 3,674,085.
 Esbeck, Howard Christian: See—
 Hentrich, Robert Dale; Esbeck, Howard Christian; and Arnold, Loren Glenn, 3,700,037.
 Esch, Anne Mary Von, to Abbott Laboratories. 9-Substituted erythromycin A & B oximes. 3,681,326, 8-1-72, Cl. 260-210.00e.
 Esch, Erika: See—
 Staib, Armando, 3,654,920.
 Esch, Fred H., to Communications Satellite Corporation. Novel battery discharge sensor and control. 3,707,664, 12-26-72, Cl. 320-18.000.
 Esch, Robert E., to Bendix Corporation. The. Apparatus for and method of checking a tool of a numerically controlled machine. 3,636,814, 1-25-72, Cl. 90-11.
 Eschard, Gilbert, to U.S. Philips Corporation. Channel amplifying device comprising a plurality of coupled channel plates. 3,673,449, 6-27-72, Cl. 313-105.000.
 Eschbach, Robert C.: See—
 Immenroth, Otto; and Eschbach, Robert C., 3,691,616.
 Esche, Charles D.: See—
 Harrison, Bobby G.; and Esche, Charles D., 3,640,087.
 Esche, Horst: See—
 Fuchs, Walter; and Esche, Horst, 3,704,514.
 Eschemco Corporation, *mesne*: See—
 Hein, Richard W.; and Bruson, Herman A., 3,686,297.
 Eschenauer, Paul R.: See—
 Schroeder, James W.; Naso, Anthony C.; and Eschenauer, Paul R., 3,649,708.
 Eschenbach, Paul W., to Deering Milliken Research Corporation. Yarn package and apparatus for producing same. 3,675,864, 7-11-72, Cl. 242-47.000.
 Eschenbach, Paul W., to Deering Milliken Research Corporation. Apparatus for increasing the density of yarn packages. 3,675,865, 7-11-72, Cl. 242-47.000.
 Eschenburg, Rodney, to Rohr Corporation. Air divider ring structure for jet engine inlet air duct. 3,666,043, 5-30-72, Cl. 181-33.00a.
 Eschenmoser, Albert: See—
 Buchi, George H.; Demole, Edouard; Eschenmoser, Albert; and Thomas, Alan F., 3,694,466.
 Eschenmoser, Albert; Felix, Dorothea; and Stoll, Max, to Firmenich & Cie. Process for the preparation of irone. 3,649,694, 3-14-72, Cl. 260-587.
 Escher Wyss GmbH: See—
 Fritze, Hartwig; Eisenmann, Wolfhart; and Preger, Max, 3,664,033.
 Eschle, Karl: See—
 Huber-Emden, Helmut; Eschle, Karl; and Maeder, Arthur, 3,679,779.
 Esclamadon, Christian, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Halogenated thioethers and method of preparations. 3,673,260, 6-27-72, Cl. 260-609.
 Esclamadon, Christian; Labat, Yves; and Signouret, Jean-Baptiste, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Formal propyl or butyl dithiol. 3,706,806, 12-19-72, Cl. 260-609.00r.
 Esco Corporation: See—
 Hahn, Frederick C., 3,638,736.
 Hahn, Frederick C., 3,664,044.
 Hahn, Frederick C.; and Czyzewski, Edward B., 3,681,808.
 Hahn, Frederick C.; and Miller, Ronald R., 3,685,177.
 La Beck, Keith E., 3,697,115.
 McNeil, Donald J., Sr.; and Deline, Richard R., 3,646,975.
 Esco Elevators, Inc.: See—
 Johnston, Everett E., 3,656,706.
 Esco Manufacturing Company: See—
 Mc Clain, James E.; and Parks, Argus F., 3,632,933.
 McClain, James E.; Parks, Argus F.; and Scott, Howard L., 3,685,035.
 Esco Fintube Corporation: See—
 Boose, Robert Carl, 3,652,820.
 Escobedo, Francisco, to Fresco Industries, Inc. Helically-tracking milling assembly with tiltable thread cutting head. 3,690,220, 9-12-72, Cl. 90-17.000.
 Escoffier, Raymond P.; and Watson, Milton R., to Collins Radio Company. Ring counter apparatus. 3,639,740, 2-1-72, Cl. 235-153.
 Escott, George K.: See—
 Anderson, Yngve R.; and Escott, George K., 3,640,046.
 Escudero, Ribas. Louver door with fixed louver or luffer-boards. 3,638,383, 2-1-72, Cl. 52-473.
 Escursell-Prat, Roberto. Mechanism and method for yarn-retrieval control. 3,641,758, 2-15-72, Cl. 57-34.
 Escursell-Prat, Roberto. Method and means for yarn retrieval. 3,664,109, 5-23-72, Cl. 57-34.
 Esdonk, Johannes Van; and Broers, Godefridus Henricus, to U.S. Philips Corporation. Method of manufacturing an electrode. 3,634,160, 1-11-72, Cl. 156-3.
 E.S.E. Limited: See—
 Lang, Gordon R., 3,701,012.
 Esemplare, Pascal E.; and West, Charles P., 1/2 to Vi-Vox, Incorporated and 1/2 to Frankel Company, Incorporated. Cold-formable decorative laminate and method of making same. 3,647,603, 3-7-72, Cl. 161-5.
 Eshelman, Philip V.; Erickson, Roy O.; and Marsh, Keith D., to Holley Carburetor Company. Throttle return spring redundancy system. 3,698,372, 10-17-72, Cl. 123-198.00b.
 Eshelman, Philip V. Throttle return spring redundancy system. 3,699,943, 10-24-72, Cl. 123-198.00b.
 Eshelman, Phillip V. Throttle return spring redundancy system. 3,704,635, 12-5-72, Cl. 74-482.000.
 Eshelman, Robert W., to Chrysler Corporation. Crankcase ventilation. 3,646,925, 3-7-72, Cl. 123-119.
 Eshelman, Robert W., to Chrysler Corporation. Crankcase ventilation. 3,661,128, 5-9-72, Cl. 123-119.
 Esher, Howard D.: See—
 Burley, Richard Kenneth; Friedman, Robert; and Esher, Howard D., 3,689,734.
 Eshima, Shozo; Fujimura, Isao; and Nakagawa, Hidenori, to Chisso Corporation. Crimpable, colored polypropylene composite fibers. 3,657,062, 4-18-72, Cl. 161-173.
 Esiban, Eduard Miganovich; and Danchenko, Mikhail Evgenievich, to Institut Elektrosvarki Imeni E. O. Patona. Non-consumable electrode for electric-arc process. 3,676,639, 7-11-72, Cl. 219-121.00r.
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 Eskeli, Michael. Rotary gas compressor. 3,650,636, 3-21-72, Cl. 417-78.
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 Eskimo Pie Corporation: See—
 Leonard, Edwin Clifton, 3,633,330.
 Minor, Ronald E.; and McMillion, Sidney B., 3,647,478.
 Eskridge, Marshall; and Willson, James K. V. Tissue auger. 3,683,891, 8-15-72, Cl. 128-2.00b.
 Esler, Donald F.; and Choby, Edward G., Jr., to Allegheny Ludlum Industries, Inc. Surface finishing. 3,703,419, 11-21-72, Cl. 148-6.160.
 Esler, Jack J.: See—
 Smiley, William D.; and Esler, Jack J., 3,633,918.
 Esler, Richard Brotherton: See—
 Smith, Sydney; Hunt, Jerry Donald; and Esler, Richard Brotherton, 3,706,222.
 Eslyn, Wallace E.: See—
 Springer, Edward L.; and Eslyn, Wallace E., 3,646,196.
 Esmay, Donald L., to Minnesota Mining and Manufacturing Company. Fluorination process for preparing certain difluoramine compounds. 3,654,369, 4-4-72, Cl. 260-583.
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 Esmond, William G., to Becton Dickinson and Company. Pleated membrane transfer device. 3,695,445, 10-3-72, Cl. 210-321.000.
 Esnouf, Michael Peter: See—
 Reid, Hugh Alistair; Esnouf, Michael Peter; and Chan, Kok Ewe, 3,657,416.

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 Espanion, Gunther: See—
 Feltgen, Karl-Heinz; and Espanion, Gunther, 3,698,610.
 Espe Fabrik Pharmazeutischer Preparate GmbH: See—
 Schmitt, Werner; Purrmann, Robert; Jochum, Peter; and Zahler, Wolf-Dietrich, 3,634,400.
 Espeland, Arthur J. Preformed building wall construction. 3,662,507, 5-16-72, Cl. 52-270.
 Espen, David A., to Sperry Rand Corporation. Wideband constant amplitude-variable phase circuit. 3,705,344, 12-5-72, Cl. 323-109.000.
 Espenschied, Helmut; and Sauer, Joseph, to Bosch, Robert, G.m.b.H. Control arrangement for hydraulic motors. 3,645,167, 2-29-72, Cl. 91-31.
 Espenschied, Helmut; Rothfuss, Georg; and Will, Gerhard, to Bosch, Robert, G.m.b.H. Electro-hydraulic drive with regulated pressure. 3,659,481, 5-2-72, Cl. 74-731.000.
 Esperson, James Ronald, to General Motors Corporation. Inertial power transmissions. 3,688,499, 9-5-72, Cl. 60-53.00c.
 Espig, Winfried: See—
 Rentschler, Waldemar T.; and Espig, Winfried, 3,645,189.
 Espino, Manuel R.: See—
 Noda, Ricardo; and Espino, Manuel R., 3,667,650.
 Espinos, Jose M.: See—
 Esteve, Antonio; and Espinos, Jose M., 3,678,040.
 Espinosa, Rene J. Dental floss holder. 3,631,869, 1-4-72, Cl. 132-91.
 Esposito, James Edward, to Amchem Products, Inc. Dry aminotriazole herbicidal formulation. 3,672,863, 6-27-72, Cl. 71-82.000.
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 Esposito, Raymond G. Paint remover compositions. 3,702,304, 11-7-72, Cl. 251-171.000.
 Espoy, Henry Marti, to Daylin Laboratories, Inc. Detoxification of oilseed meal with calcium hydroxide. 3,689,275, 9-5-72, Cl. 99-2.00e.
 Espunes, Luis Arizmendi, to Instituto de Quimica Fisica Rocasolano. Process for the lubrication of mechanical systems subjected to very high contact pressure. 3,698,513, 10-17-72, Cl. 184-5.000.
 Espy, Herbert H.: See—
 Aldrich, Paul H.; Bartell, Don G.; and Espy, Herbert H., 3,686,109.
 Espy, Patrick N., to United States of America, National Aeronautics and Space Administration. Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc. 3,693,002, 9-19-72, Cl. 313-231.000.
 Espy, Ronald H.; and Denhard, Elbert E., Jr., to Armco Steel Corporation. Austenitic alloy and weld. 3,660,080, 5-2-72, Cl. 75-128.
 Esquenet, Bernard E.: See—
 Schwartz, Walter; Berkowitz, William H.; and Esquenet, Bernard E., 3,681,211.
 Esquire, Inc.: See—
 Mc Namara, Albert C., Jr., 3,701,898.
 McFarlin, Ralph M., 3,644,729.
 McFarlin, Ralph M., 3,652,847.
 Moore, Buell, 3,638,010.
 Moore, Buell, 3,666,934.
 Mosier, Benjamin, 3,671,333.
 Osborne, Edwin F., Jr., 3,636,339.
 Snyder, Carl R., 3,644,783.
 Snyder, Carl R., 3,681,653.
 Esquivel, Raymond D. Automatic animal feeder. 3,648,660, 3-14-72, Cl. 119-51.11.
 Essam, David Maltby, to Imperial Chemical Laboratories, Limited. Process of incorporating additives into thermoplastics. 3,694,402, 9-26-72, Cl. 260-40.00r.
 Essar Corporation: See—
 Olsson, Sven O., 3,662,142.
 Esselin, Raymond; and Poirier, Jean-Claude, to Automobiles Peugeot and Regie Nationale des Usines Renault. Electrode for an electrophoresis painting installation. 3,652,441, 3-28-72, Cl. 204-280.
 Esselink, Abraham J., to Selas Corporation. Reformer furnace. 3,672,847, 6-27-72, Cl. 23-288.00m.
 Esselte AB: See—
 Klingspor, Richard; and Alebrant, John, 3,669,015.
 Essem Metotest AB: See—
 Bergstrand, Karl Gunnar, 3,694,740.
 Esser, Alfred G.: See—
 Barainsky, Rudolf F.; Kiefer, Richard; Pankweit, Hartmut; and Esser, Alfred G., 3,642,399.
 Esser, Gerhard: See—
 Wehner, Klaus; Grunert, Horst; Kisan, Werner; Esser, Gerhard; Knopel, Horst; and Flad, Dietmar, 3,653,809.
 Esser, Harold H.; and Olson, Ralph B., to Schneider Metal Manufacturing Co. Agitator for storage bin of ice cube maker. 3,651,656, 3-28-72, Cl. 62-137.
 Esser, Heinz, to Farbenfabriken Bayer Aktiengesellschaft. Process for applying coherent coatings. 3,667,998, 6-6-72, Cl. 117-105.500.
 Esser, Klaus, KG: See—
 Heitner, Alfred, 3,694,013.
 Esser, Leonard Jan Maria, to U.S. Philips Corporation. Phase-independent digital correlator for use in radar system. 3,689,750, 9-5-72, Cl. 235-181.000.
 Esser, Matthias: See—
 Walther, Ludwig; Esser, Matthias; and Zilken, Helmut, 3,695,578.
 Essery, John Michael; and West, Janet Ruth, to Bristol-Myers Company. Synthetic penicillin. 3,654,265, 4-4-72, Cl. 260-239.1.
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 Essex Chemical Corporation: See—
 Blue, Louis D., 3,643,888.
 De Santis, G. William, 3,707,521.
 Jenks, Theodore E.; and Bittner, Edward R., 3,636,199.
 Essex, Duane Arnold, to Deere & Company. Adjustable spring trip shank assembly. 3,700,038, 10-24-72, Cl. 172-625.000.
 Essex, Duane Arnold; Haverdink, Virgil Dean; and Hill, Donald Allan, to Deere & Company. Spring trip shank assembly. 3,700,039, 10-24-72, Cl. 172-265.000.
 Essex International, Inc.: See—
 Du Rocher, Gideon A., 3,648,002.
 Du Rocher, Gideon A.; and Miller, Ellsworth S., 3,701,965.
 Du Rocher, Gideon A., 3,707,694.
 DuRocher, Gideon A., 3,653,237.
 DuRocher, Gideon A.; and Kosowan, Michael B., 3,655,240.
 DuRocher, Gideon A., 3,676,815.
 Hansen, Wallace A., 3,686,609.
 Hartz, Marvin E.; Taormina, Anthony J.; and Grebik, Stephen J., 3,676,838.
 Langan, John P.; and Cobbeldick, Charles R., 3,696,222.
 Lee, Paul R., 3,656,079.
 McCardell, Willard B., Jr.; Bissland, John D.; and Witek, Roman J., Jr., 3,686,619.
 Preston, Jerome A., 3,632,440.
 Preston, Jerome A., 3,681,282.
 Preston, Jerome A., 3,686,030.
 Prouty, Robert E., 3,643,193.
 Prouty, Robert E.; Gilman, John E., III; and Smith, James J., 3,656,076.
 Prouty, Robert E., 3,693,125.
 Prouty, Robert E.; and Smith, James J., 3,694,717.
 Reust, Paul H.; and Taube, Donald R., 3,675,300.
 Sognefest, Peter W.; and Estes, Bay E., III, 3,648,057.
 Staff, Richard S., 3,646,438.
 Vogel, Ralph A.; and Moss, Harold S., 3,670,799.
 Vogel, Ralph A., 3,682,234.
 Essex International, Inc., *mesne*: See—
 Eminger, Robert J.; and Tyson, Clayton L., 3,631,591.
 Eminger, Robert J., 3,649,415.
 von der Heide, Elmer J., 3,683,062.
 Essiet, Okon A. Process for extracting a sweetening agent from dioscoreophyllum cumminsii berries. 3,687,693, 8-29-72, Cl. 99-141.000.
 Essig, Karl-August: See—
 Bockmann, August; Essig, Karl-August; Feltgen, Karlheinz; Groschel, Herbert; and Rudolph, Hans, 3,642,713.
 Kubitzek, Harry; Essig, Karl-August; Von Falkai, Bela; Reichle, Alfred; and Bodesheim, Ferdinand, 3,664,914.
 Essig, Ted. Method and apparatus for duplicating a key. 3,682,041, 8-8-72, Cl. 90-13.050.
 Esslinger, Paul; and Walking, Rudolf, to Battelle Development Corporation, The. Method of casting by catching free-falling molten metal mass. 3,662,811, 5-16-72, Cl. 164-113.
 Esslinger, Robert H.: See—
 Belcher, Richmond D.; Duggan, Robert J.; Ellis, George R.; Esslinger, Robert H.; Goodyear, W. Frederick; Marshall, Joseph C.; and Masone, Thomas R., 3,656,148.
 Esso Chimie: See—
 Corringer, Jean; and Fourreau, Jean, 3,654,152.
 Esso Production Research Company: See—
 Ahearn, George P., 3,663,477.
 Bohlmann, Willy F., Jr.; Goodrich, Jerome D.; and Corley, Charles B., Jr., 3,658,126.
 Brown, Stephen S., 3,688,473.
 Burrell, George R., 3,653,636.
 Castellanos, Leopold J., 3,636,716.
 Chenevert, Martin E., 3,664,426.
 Chenevert, Martin E., 3,670,816.

Chenevert, Martin E., 3,688,851.
 Chenevert, Martin E., 3,702,564.
 Childers, Thomas W., 3,653,213.
 Childers, Thomas W., 3,670,814.
 Childers, Thomas W.; Burkhardt, Joseph A.; and Koerner, Roger J., 3,677,001.
 Christman, Stanley A., 3,633,689.
 Cunningham, Gerald Robert; and Wooddy, Lemuel Dale, Jr., 3,702,657.
 Gale, Walter W.; and Rorie, Euell R., 3,637,017.
 Gale, Walter W.; Denekas, Milton O.; and Storfer, Stanley J., 3,653,437.
 Garner, Norman E., 3,707,077.
 Graham, John W., 3,659,651.
 Graham, John W.; Kiel, Othar M.; Terry, William M.; and Sinclair, Albert R., 3,664,420.
 Harrison, Otto R., 3,638,721.
 Hemstock, Russell A., 3,702,542.
 Hibbard, Haines C., 3,665,466.
 Kanady, William E., 3,650,323.
 Kanady, William E., 3,675,718.
 Kostelnicek, Richard J., 3,689,875.
 Leonard, Theodore E.; and Lloyd, James R., 3,693,362.
 Lloyd, James R., 3,670,515.
 Lock, Everett H.; and Heilhecker, Joe K., 3,673,676.
 Lock, Everett H.; and Maurer, William C., 3,687,493.
 Matthews, Jamie F., Jr., 3,670,513.
 Matthews, Jamie F., Jr., 3,690,111.
 Matthews, Jamie F., Jr., 3,698,199.
 Matthews, Jamie F., Jr., 3,702,539.
 Maurer, William C.; Heilhecker, Joe K.; and Graham, Robert L., 3,645,331.
 Maurer, William C.; Lock, Everett H.; and Graham, Robert L., 3,688,853.
 McCulloch, Thomas B., 3,664,437.
 Miller, James F.; and Maurer, William C., 3,645,346.
 Pattison, Martin Oren; and Bohlmann, Willy Frank, Jr., 3,690,112.
 Penberthy, Walter L.; Bayless, Jack H.; and Ayers, Robert C., Jr., 3,664,425.
 Penberthy, Walter L., Jr.; Bayless, Jack H.; and West, Robert C., 3,664,424.
 Reistle, Carl E., III; Childers, Thomas W.; Burkhardt, Joseph A.; Mc Lallen, Dewitt L., Jr.; and Woolley, Carroll A., 3,653,435.
 Rich, Elvis; and Von Rosenberg, Edgar L., 3,653,717.
 Sassee, John H., 3,664,610.
 Stone, Webster R., 3,638,175.
 Terry, William M.; Graham, John W.; Sinclair, Albert R.; and Kiel, Othar M., 3,700,032.
 True, Martin E.; and Kanady, William E., 3,633,669.
 Weber, Ronald A., 3,637,223.
 Willman, Bertram T., 3,675,429.
 Wood, Donald B.; and Kiel, Othar M., 3,695,355.
 Wooddy, Lemuel D., Jr., 3,653,214.
 Eppo Research and Engineering Company: See—
 Adams, Clark E.; and House, William T., 3,668,116.
 Aldridge, Clyde L.; and Buben, David, 3,689,240.
 Angelo, Jake B., 3,642,202.
 Arcy, William F.; Hamner, Glen P.; Mason, Ralph B.; and Rigney, James A., 3,684,691.
 Ashcraft, Thomas L., Jr., 3,705,093.
 Asher, William J., 3,636,118.
 Batzold, John S., 3,658,595.
 Bearden, Roby, Jr.; and De Feo, Richard J., Jr., 3,686,343.
 Beltzer, Morton, 3,632,448.
 Bernheimer, Ralph, 3,666,660.
 Bessant, Glyndwr A. R., 3,637,368.
 Bichard, John A.; and Eng, Jackson, 3,644,433.
 Bieber, Herman; Spenadel, Lawrence; and Coddington, David M., 3,687,746.
 Biribauer, Frank A.; and Bushnell, James D., 3,658,688.
 Blaser, Don E.; and Lahn, Gerard C., 3,694,346.
 Bloch, Heinz P., 3,702,704.
 Boggs, Jesse K., 3,678,123.
 Bosniack, David S.; and Metro, Stephen J., 3,634,242.
 Bouboulis, Constantine J., 3,661,918.
 Brewster, Phillip W.; and MacDonald, John M., 3,681,150.
 Britton, Robert A., 3,686,334.
 Broca, Jacques; Lorce, Jean-Paul; and Schatz, Ralph Howard, 3,639,366.
 Brown, Thomas W.; and Lemlin, John S., 3,656,330.
 Brownawell, Darrell W.; and Renard, Remi H., 3,639,229.
 Buchmann, Fred J.; and Hamner, Glen P., 3,702,816.
 Buntin, Robert R.; Harding, John W.; Keller, James P.; and Murdock, Vollic L., 3,684,415.
 Bunting, William; and Langer, Arthur W., Jr., 3,705,200.
 Burkard, Herbert G.; Miller, Harold N.; and Kresge, Edward N., 3,645,704.
 Cahn, Robert P.; DeFeo, Richard J.; and Taylor, James H., Jr., 3,637,888.
 Cahn, Robert P.; and Angier, Derek J., 3,641,183.

Canter, Nathan H., 3,642,728.
 Canter, Nathan H.; and Kennedy, Joseph P., 3,646,166.
 Carter, James L., 3,697,445.
 Chomyn, Karl D., 3,696,160.
 Cier, Harry E.; and Wilder, Hulen L., 3,652,689.
 Cier, Harry E., 3,700,640.
 Colclough, Terence; Morris, Arthur L.; and Hodges, Robert J., 3,687,848.
 Coleman, James E., 3,653,834.
 Coopersmith, Myron, 3,651,102.
 Coopersmith, Myron; Rubin, Gerald; and Wickson, Edward J., 3,652,610.
 Cordes, Ronald A., 3,675,401.
 Corino, Edward R.; Broderick, Edward F.; and Canevari, Gerard P., 3,634,050.
 Corino, Edward R.; and Canevari, Gerard P., 3,639,258.
 Corringer, Jean, 3,671,430.
 Cowles, Walter C.; and Iarossi, Frank J., 3,692,205.
 Cozewith, Charles; and Tornqvist, Erik G. M., 3,642,758.
 Cozewith, Charles; and Tornqvist, Erik G. M., 3,663,450.
 Cull, Neville L.; Bearden, Roby, Jr.; and Mertzweiler, Joseph K., 3,637,897.
 Cull, Neville L.; Bearden, Roby, Jr.; and Mertzweiler, Joseph K., 3,660,518.
 Curtis, George G., 3,639,237.
 Curtis, George G., 3,658,704.
 Dasinger, Bruce L.; and Naslund, Lars A., 3,644,175.
 De Pierri, William G., Jr., 3,636,142.
 De Pierri, William G., Jr.; and Wilder, Hulen L., 3,639,376.
 De Pierri, William G., Jr., 3,639,533.
 De Pierri, William G., Jr., 3,661,785.
 Delafield, David J.; Edwards, Alan H.; and Owen, Keith, 3,687,644.
 Delafield, David James; Edwards, Alan H.; and Owen, Keith, 3,658,707.
 Dengler, Herbert P.; and Schulman, Bernard L., 3,652,446.
 DePierri, William G., Jr., 3,644,205.
 Dugan, John J., 3,670,037.
 Dupas, Robert; and Ostyn, Marcel, 3,634,249.
 Eagen, John F.; and Richards, John F., 3,681,230.
 Eberly, Paul E., Jr.; and Kimberlin, Charles N., Jr., 3,641,177.
 Eberly, Paul E., Jr., 3,686,341.
 Eberly, Paul E., Jr., 3,686,348.
 Emond, Robert E.; and Horth, Alcide C., 3,654,171.
 Engel, Lawrence J.; Gianni, Michael H.; and Wiener, Charles, 3,692,837.
 Engel, Lawrence J.; and Smith, Marvin F., Jr., 3,697,429.
 Engelhart, John E., 3,682,945.
 Engelhart, John E., 3,689,574.
 Engelhart, John E., 3,694,482.
 Feldman, Nicholas; and Philippoff, Wladimir, 3,660,058.
 Fihn, Kurt W., 3,670,643.
 Fiocco, Robert J., 3,645,398.
 Fiocco, Robert J.; and Wilson, Edward L., 3,687,837.
 Flory, John F.; Baptist, Colin N. T.; Kuhn, Russel C.; and Stracke, Frederick H., 3,641,602.
 Foroulis, Zisis Andrew, 3,640,895.
 Foroulis, Zisis Andrew, 3,676,327.
 Forster, Eric O., 3,643,054.
 Forster, Eric O., 3,666,876.
 Frankenfeld, John W.; and Dasinger, Bruce L., 3,634,194.
 Frankenfeld, John W.; and Gerarde, Horace W., 3,644,651.
 Frankenfeld, John W.; Karel, Marcus; and Labuza, Theodore P., 3,667,964.
 Frankenfeld, John W.; Karel, Marcus; and Labuza, Theodore P., 3,667,965.
 Fulham, Michael J.; Jones, Richard; Webb, Michael; and Hamard, Jacques, 3,642,934.
 Fuller, Everett J., 3,652,701.
 Garabrant, Arthur R.; Beerbower, Alan; and Wilson, James A., 3,696,661.
 Gardiner, John B.; and White, Herschel T., 3,692,599.
 Gardner, Irwin J.; and Manuel, Thomas A., 3,644,315.
 Gathman, Albert; and Gleim, George W., 3,676,342.
 Geyer, Jerome; Hu, Shih-En; and Robbins, Max L., 3,655,558.
 Gilani, Syed S. H.; Murray, Donald W.; and Salva, Juan M., 3,681,242.
 Gilbert, John B.; and Kartzmark, Robert, 3,658,692.
 Gillespie, Bruce G.; and Ryer, Jack, 3,645,886.
 Gorbaty, Martin L., 3,658,818.
 Gorbaty, Martin L., 3,679,683.
 Gourlaouen, Henri; and Ostyn, Marcel, 3,657,132.
 Gray, William O., 3,690,281.
 Griffel, Jacob; and Mayer, Ivan, 3,654,140.
 Griffin, Lindsay I., Jr.; and Welty, Albert B., 3,645,671.
 Griffin, Lindsay I., Jr.; and Welty, Albert B., Jr., 3,695,829.
 Guber, Fred H., Jr., 3,690,502.
 Gudelis, David A.; and Eagen, John F., 3,644,195.
 Guerre, Robert P.; and Ruland, Ross R., 3,671,173.
 Gunning, Harry E.; and Jameson, Bruce G., 3,692,693.
 Hamner, Glen P., 3,640,818.

Hamner, Glen P.; and Mason, Ralph B., 3,691,058.
 Harris, Grady W.; and Sprow, Frank B., 3,645,885.
 Harvey, Robert H., 3,663,644.
 Hemminger, Charles E., 3,660,520.
 Henselman, Richard O.; and Burkard, Herbert G., 3,639,226.
 Higgins, John J.; Berejka, Anthony J.; and Spenadel, Lawrence, 3,654,005.
 Hollyday, William C., Jr., 3,658,493.
 Hollyday, William C., Jr., 3,661,541.
 Holt, Thomas E.; and Taylor, Edward B., 3,677,850.
 Hu, Shih-en, 3,676,346.
 Hu, Shih-En, 3,676,483.
 Iarossi, Frank J., 3,671,315.
 Inyckij, Stephan; Cole, John Charles O.; Feldman, Nicholas; and Strickland, Barney R., 3,640,691.
 Inyckij, Stephan, 3,642,459.
 Inyckij, Stephan, 3,660,057.
 Jacobson, Norman, 3,637,610.
 Johnson, Burnett H., 3,642,932.
 Jolley, Gordon B.; and Roberts, Durward T., Jr., 3,642,661.
 Kartzmark, Robert; and MacDonald John M., 3,649,528.
 Kearby, Kenneth K., 3,644,220.
 Kennedy, Joseph P.; and Baldwin, Francis P., 3,694,377.
 Kimberlin, Charles N., Jr.; and Gladrow, Elroy M., 3,686,121.
 King, Laurence F.; and Taylor, William, 3,666,700.
 King, Laurence F., 3,674,730.
 King, William H., Jr.; and Dietz, Walter A., 3,677,066.
 Kivlen, John A.; Struth, Bert W.; and Weiss, Clifford P., 3,641,190.
 Konecky, Milton S., 3,703,361.
 Kramer, George M., 3,641,185.
 Kraus, Bernhard J.; and Kim, Dae Sik, 3,641,767.
 Kraus, Bernhard J.; and Kim, Dae Sik, 3,643,425.
 Kraus, Bernhard J.; and Kim, Dae Sik, 3,643,640.
 Kroll, Wolfram R., 3,644,445.
 Kroll, Wolfram R., 3,671,597.
 Kroll, Wolfram R.; and Doyle, Gerald, 3,689,433.
 Kroll, Wolfram R.; Doyle, Gerald; and Ruhle, Helmut W., 3,691,095.
 Langer, Arthur W., Jr., 3,647,912.
 Langer, Arthur W., Jr., 3,655,812.
 Langer, Arthur W., Jr., 3,662,021.
 Langer, Arthur W., Jr., 3,663,585.
 Leder, Frederic, 3,637,345.
 Li, Norman N.; Cahn, Robert P.; and Shrier, Adam L., 3,637,488.
 Li, Norman N., 3,650,091.
 Litt, Arnold D.; and Engelhart, John E., 3,696,101.
 Long, Robert B.; Caruso, Fred A.; DeFeo, Richard J.; and Walker, David G. (said Long, said Caruso and said DeFeo as sor. to), 3,651,159.
 Longwell, John P., 3,703,080.
 Love, James H., 3,652,515.
 Luckenbach, Edward C., 3,702,516.
 Lundberg, Charles A., Jr.; and Engelhart, John E., 3,705,910.
 Lyon, Richard K., 3,674,681.
 MacLeod, David M., 3,642,635.
 MacDonald, John M.; and Campbell, Ian D., 3,671,423.
 Mahar, John H., 3,684,482.
 Makowski, Henry S.; and Borzel, Paul, 3,681,309.
 Makowski, Henry S.; Lynn, Merrill; and Jaruzelski, John J., 3,652,732.
 Maness, Dale D., 3,701,629.
 Maravetz, Lester L., 3,672,864.
 Maravetz, Lester L., 3,686,230.
 Marks, Alfred F., 3,686,244.
 Marsh, John F.; and Swietlik, Joseph M., 3,655,557.
 Marshall, Richard A., 3,639,363.
 Martin, Homer Z., 3,649,521.
 Martin, Homer Z., 3,649,522.
 Mason, Ralph B.; and Hamner, Glen P., 3,707,459.
 Mayer, Ivan; and Perry, Stephen F., 3,642,609.
 McQuade, John E., Jr., 3,661,672.
 McDougall, Lee A.; and Looney, James R., 3,658,720.
 McDougall, Lee A.; Rossi, Albert; and Wisotsky, Max J., 3,693,720.
 McQuade, John E., Jr., 3,698,978.
 Mertzweiler, Joseph K.; and Tenney, Horace M., 3,677,969.
 Mertzweiler, Joseph K.; and Tenney, Horace M., 3,677,970.
 Mertzweiler, Joseph K.; and Cull, Neville L., 3,691,101.
 Metrailler, William J., 3,702,819.
 Metro, Stephen J.; and Shaub, Harold, 3,671,434.
 Miller, Alfred H., 3,651,075.
 Miller, Alfred H., 3,673,203.
 Miller, Alfred H., 3,691,237.
 Miller, Alfred H., 3,705,155.
 Miller, Harold N., 3,694,176.
 Minckler, Leon Sherwood, Jr., 3,678,013.
 Morris, Arthur Leslie; Morris, Peter John; and Simpkin, Dennis John, 3,682,819.
 Morris, Peter Reginald, 3,632,600.
 Morway, Arnold J.; and Bodner, Albert J., 3,639,236.
 Morway, Arnold J.; and Bodner, Albert J., 3,639,644.
 Moss, Gerald; and Johnes, Graham L., 3,661,177.
 Mueller, David E.; and Segura, Marnell A., 3,690,930.
 Mueller, Wolfgang H.; Thaler, Warren A.; and Oswald, Alexis A., 3,660,543.
 Mullen, John S., 3,690,150.
 Mullen, John S., 3,702,074.
 Naschke, John H.; and Taylor, Robert L., 3,644,091.
 Neal, Arthur H.; and Parker, Paul T., 3,686,352.
 Newman, Neil F., 3,681,327.
 Nixon, James; and Jonach, Fredrick L., 3,637,357.
 North, Howard C.; and Williamson, Charles W., 3,702,224.
 O'Halloran, Rosemary, 3,634,240.
 Oswald, Alexis; Hall, Daniel N.; and Griesbalm, Karl, 3,686,326.
 Oswald, Alexis A., 3,658,840.
 Oswald, Alexis A.; and Valint, Paul L., Jr., 3,662,034.
 Oswald, Alexis A., 3,681,219.
 Oswald, Alexis A.; and Mueller, Wolfgang H., 3,687,830.
 Ott, Roy John; and Miller, Harold Nelson, 3,655,767.
 Panzer, Jerome, 3,664,955.
 Parker, Paul Thomas; and Kimberlin, Charles Newton, Jr., 3,636,129.
 Pasternak, Israel S.; Gaspar, Noel J.; Cohen, Abraham D.; and Vadekar, Mohan, 3,636,183.
 Paterson, Gerald E.; and Compton, Daniel D., 3,638,476.
 Patton, Tad L., 3,635,905.
 Patton, Tad L., 3,637,843.
 Patton, Tad L.; and Haynes, Raymond R., 3,639,528.
 Patton, Tad L., 3,661,859.
 Patton, Tao L., 3,684,773.
 Pepper, Kenneth V., 3,650,549.
 Pine, Lloyd A., 3,658,935.
 Pollak, Kurt, 3,637,499.
 Powers, Kenneth W.; and Serniuk, George E., 3,660,160.
 Prentice, James S., 3,650,866.
 Prentice, James S., 3,676,242.
 Prentice, James S., 3,704,198.
 Ramsden, Hugh E., 3,642,845.
 Richards, John F.; and Terrell, Walter L., Jr., 3,691,732.
 Riley, Kenneth L.; and Sawyer, Willard H., 3,692,698.
 Rionda, Jose A., 3,663,673.
 Robbins, Max L.; and Brownawell, Darrell W., 3,641,181.
 Robson, Harry Edwin, 3,674,425.
 Romanelli, Michael G., 3,670,029.
 Romanelli, Michael G., 3,670,032.
 Rosenfeld, Daniel D.; and Gorbaty, Martin L., 3,681,352.
 Ross, Gerald, 3,707,462.
 Ruhle, Helmut W., 3,668,146.
 Rutowski, Alfred J., 3,645,716.
 Salamony, James E.; and Starnes, William H., Jr., 3,700,583.
 Samler, Lee F.; and Boone, John J., 3,703,197.
 Sarsten, Jan A.; Zacks, Kenneth I.; and Myers, Michael C., 3,668,882.
 Sawyer, Willard H.; and Robson, Harry E., 3,692,700.
 Saxton, Arthur L., 3,661,543.
 Saxton, Arthur L., 3,671,424.
 Saxton, Arthur L.; and Jenkinson, Ronald J., 3,687,841.
 Scher, Herbert I.; and Ungar, Israel S., 3,674,619.
 Scher, Herbert I., 3,700,537.
 Schulman, Bernard L., 3,700,586.
 Schultz, Henry G.; Williams, Herschel C.; Neureiter, Norman P.; and Bown, Delos E., 3,655,718.
 Sebenik, Roger F.; Germand, Martin O.; and Segura, Marnell A., 3,637,369.
 Shakesby, Leonard, 3,640,551.
 Shelton, Marcus H., 3,648,882.
 Shelton, Marcus H.; and James, Ralph, Jr., 3,655,851.
 Shmidt, Albert J.; and Winegartner, Edgar C., 3,644,178.
 Sinfelt, John H., 3,684,693.
 Singhal, Gopal H., 3,681,377.
 Spenadel, Lawrence; Hall, Homer J.; and Kirshenbaum, Isidor, 3,697,455.
 Sprow, Frank B.; and Keller, John E., 3,694,342.
 Starnes, William H., Jr., 3,635,885.
 Starnes, William H., Jr.; and Patton, Tad L., 3,635,886.
 Starnes, William H., Jr., 3,644,538.
 Starnes, William H., Jr., 3,644,539.
 Starnes, William H., Jr., 3,660,505.
 Starnes, William H., Jr., 3,674,854.
 Stenmark, Donald G., 3,701,813.
 Stenmark, Donald G., 3,707,577.
 Szabo, Karoly, 3,691,163.
 Tegge, Bruce R.; Teiser, William L.; Love, James H.; and Rosenbaum, Barry M., 3,642,731.
 Thaler, Warren A., 3,691,043.
 Thaler, Warren A., 3,691,183.
 Thompson, Charles E., 3,637,344.
 Tyler, William E., III; and Lovett, John R., 3,687,954.
 Valint, Paul L., Jr., 3,665,001.

- Vanderbilt, Byron M.; and Fasnacht, James J. (said Vanderbilt assor. to R, 3,674,542.
- Voorhies, Alexis, Jr.; and Hamer, Glen P., 3,654,130.
- Wagensommer, Joseph, 3,678,019.
- Wagensommer, Joseph, 3,696,086.
- Welty, Albert B., Jr., 3,674,427.
- Wiese, Herbert K.; and Burton, Paul E., 3,671,590.
- Wilson, Edward L.; and Pennington, Robert E., 3,692,662.
- Winkler, John C.; and Senyard, Corley P., 3,676,412.
- Wirth, Guy B.; and Jahng, Charles E., 3,654,134.
- Wirth, Guy B.; and Jahng, Charles E., 3,661,767.
- Wisotsky, Max J.; and Miller, Harold N., 3,638,349.
- Woo, Charles; and Butler, Roger M., 3,652,649.
- Worley, Arthur C.; and Kane, Ronald S., 3,701,359.
- Wright, Franklin J., 3,656,878.
- Wright, Franklin J., 3,687,976.
- Wylie, Roger; and James, Ralph, Jr., 3,631,605.
- Young, Archie R., II, 3,644,147.
- Zielinski, James, 3,687,959.
- Zimmerman, Abraham A.; Furlong, Louis E.; and Shannon, Hugh F., 3,705,024.
- Zimmerman, Abraham A.; Furlong, Louis E.; and Shannon, Hugh F., 3,707,362.
- Zirps, George T.; and Worley, Arthur C., 3,633,626.
- Esso Research and Engineering Company, mesne: See—
- Bown, Delos E.; Neureiter, Norman P.; Schutze, Henry G.; and Williams, Herschel, 3,691,132.
- Estad Products, Inc.: See—
- Kronas, Nicholas T.; and Ehrich, Robert W., 3,692,267.
- Estelle, Weems E.: See—
- Rapoza, Edward J.; Siegel, Maxwell E.; Estelle, Weems E.; Petrucci, Pasquale M.; Linarducci, Joseph S.; Hamma, John; and Montgomery, John, 3,706,499.
- Estelle, Weems E.; and Petrucci, Pasquale M., to General Science Corporation. Particle counting apparatus having automatic display and threshold setting. 3,654,439, 4-4-72, Cl. 235-92.
- Estelle, Weems E.; Angel, Henry R.; and Petrucci, Pasquale M., to General Science Corporation. Particle counting system. 3,657,725, 4-18-72, Cl. 235-92.
- Esten, Harold. Pressure balance valve. 3,688,790, 9-5-72, Cl. 137-98,000.
- Ester, Charles E., to Honeywell Information Systems Inc., mesne. Mounting device for printed wiring boards. 3,665,369, 5-23-72, Cl. 339-75.
- Ester, Wilhelm: See—
- Rindtorff, Ermbrecht; and Ester, Wilhelm, 3,704,329.
- Esterhoy, Charles J., Jr.; and Hunter, William D., Jr., to Allied Chemical Corporation. Concentration of wet-process phosphoric acid. 3,671,202, 6-20-72, Cl. 23-307,000.
- Esterly, Daniel David; and Jacob, Larry Michael, to Ampex Corporation. Apparatus and method for reverse recording a master tape for contact duplication of magnetic tapes. 3,652,808, 3-28-72, Cl. 179-100.2.
- Esterzon, Mikhail Abramovich; Kozyrev, Jury Georgievich; and Yakobson, Mikhail Osipovich; deceased (by Yakobson, Ana Semenovna; executor). Mechanism for clamping a blank in a machine for rolling splines. 3,636,747, 1-25-72, Cl. 72-214.
- Estes, Bay E., III: See—
- Atkins, Anthony G.; Estes, Bay E., III; and Renner, Richard L., 3,688,571.
- Sognefest, Peter W.; and Estes, Bay E., III, 3,648,057.
- Estes, Clancy E.: See—
- Snelling, Murdock M., Jr.; and Estes, Clancy E., 3,633,777.
- Estes, Harry A.: See—
- Bailey, Robert C.; Estes, Harry A.; James, Glen S.; Klug, James R.; Montillon, Henry A.; Myring, Verne E.; Robertson, Orville H.; Sargeant, Blaine W.; and Sorensen, Neal E., 3,679,200.
- Estes, James D.; and De Gough, Kirby, to N L Industries, Inc. Method and apparatus for tool orientation in a bore hole. 3,704,749, 12-5-72, Cl. 166-255,000.
- Estes, John C., to Bethlehem Steel Corporation. Apparatus and method for removing and/or adding column sections to a column of a marine structure. 3,699,688, 10-24-72, Cl. 61-46,500.
- Estes, John H.: See—
- Durkin, Joseph A.; Estes, John H.; and Lafferty, William L., Jr., 3,652,709.
- Kravitz, Stanley; Estes, John H.; and Suggitt, Robert M., 3,692,694.
- Kravitz, Stanley; Estes, John H.; and Suggitt, Robert M., 3,692,696.
- Kravitz, Stanley; Estes, John H.; and Suggitt, Robert M., 3,692,697.
- Suggitt, Robert M.; Estes, John H.; and Kravitz, Stanley, 3,646,152.
- Suggitt, Robert M.; and Estes, John H., 3,663,454.
- Suggitt, Robert M.; Kravitz, Stanley; and Estes, John H., 3,663,636.
- Suggitt, Robert M.; Estes, John H.; and Kravitz, Stanley, 3,689,434.
- Suggitt, Robert M.; Estes, John H.; and Kravitz, Stanley, 3,692,695.
- Estes, John H.; and Bartley, Burton H. Selective temperature control of catalysts. 3,691,065, 9-12-72, Cl. 208-159,000.
- Estes, John H.; Kravitz, Stanley; and Suggitt, Robert M., to Texaco Inc. Hydrocarbon conversion process. 3,702,874, 11-14-72, Cl. 208-112,000.
- Estes, Joseph F.; and Kertesz, Imre, to North American Rockwell Corporation. Sensing instrument having a cantilevered proof mass. 3,673,873, 7-4-72, Cl. 73-517,000.
- Estes, Marvin F.: See—
- Rasquin, John R.; and Estes, Marvin F., 3,632,242.
- Estes, Phillip W., to Grace, W. R., & Co. Pressure sensitive adhesive articles having a release coating. 3,690,924, 9-12-72, Cl. 117-68,500.
- Estes, Roger Q. Safety feature for fire extinguishers. 3,666,016, 5-30-72, Cl. 169-31,000.
- Estes, Stanley E. Protective boot for distributor caps and the like. 3,646,250, 2-29-72, Cl. 174-138.
- Esteve, Antonio; and Espinos, Jose M., to Esteve, Dr., Laboratorios del S.A. and Laboratorios Espinos y Bofill S.A. Process for the preparation of hydroxybenzene sulfonates of morpholinomethyl aminooxazolidones. 3,678,040, 7-18-72, Cl. 260-240,00a.
- Esteve, Dr., Laboratorios del S.A.: See—
- Esteve, Antonio; and Espinos, Jose M., 3,678,040.
- Esteve-Subirana, Antonio; and Coutellier, Chislain, to Laboratoires OM, S.A. and Delalande S.A. Method for combating disturbances of the lipid content of the blood. 3,681,503, 8-1-72, Cl. 424-316,000.
- Esteves, Alberto R., mesne: See—
- Stephens, Kenneth D., Jr., 3,683,106.
- Estey Corporation: See—
- Huck, Charles M., 3,658,433.
- Estienne, Jean: See—
- David, Reginald; and Estienne, Jean, 3,671,582.
- Estin, Hans: See—
- Merrill, Edward W., 3,678,756.
- Estin, Hans H.: See—
- Merrill, Edward W., 3,638,639.
- Merrill, Edward W., 3,659,600.
- Merrill, Edward W., 3,677,444.
- Merrill, Edward W., 3,679,625.
- Merrill, Edward W., 3,683,626.
- Estin, Hans W.: See—
- Merrill, Edward W., 3,638,639.
- Estis, Lonnie J., to Sepco. Apparatus for curing building blocks. 3,687,598, 8-29-72, Cl. 425-445,000.
- Estlick, Raymond J., to Raytheon Company. Hydraulic power unit. 3,677,005, 7-18-72, Cl. 60-54,60a.
- Estlick, Raymond J., to Raytheon Company. Motion converter assembly. 3,696,684, 10-10-72, Cl. 74-104,000.
- Estrada, Manuel. Process for curing concrete in situ by means of vapor. 3,642,969, 2-15-72, Cl. 264-82.
- Estradier, Françoise: See—
- Bugaut, Andree; and Estradier, Françoise, 3,690,810.
- Kalopissis, Gregoire; Bugaut, Andree; and Estradier, Françoise, 3,677,690.
- Estrem, Malcolm J., to Cornelius Company, The. Adjustable timer having rotation cam and wide range variable dwell. 3,670,128, 6-13-72, Cl. 200-153,01b.
- Esty, Joseph J. Method of packaging and preserving perishable products. 3,673,758, 7-4-72, Cl. 53-22,00b.
- Etablissement Bonatex: See—
- Pechthold, Heinz, 3,694,126.
- Etablissement Kogerim: See—
- Forget, Edmond, 3,663,557.
- Etablissement Muller & Cie: See—
- Brisard, Gerard, 3,690,145.
- Etablissement Prarial: See—
- Haller, Renee-Marie, 3,690,316.
- Etablissement Procor: See—
- Elkuch, Franz, 3,641,373.
- Etablissement public a caractere industriel et commercial dite: Entreprise de Recherches et d'Activites Petrolieres (ELF): See—
- Houot, Jean-Jacques; Pelissier, Yves; and Durand, Jean-Francois, 3,645,565.
- Etablissement Public: Agence Nationale de Valorisation de la Recherche (ANVAR): See—
- Bonnet, Maurice, 3,675,554.
- Denis, Jean-Pierre; and Loiers, Jean, 3,634,282.
- Vibert, Claude Jacques; and Le Pape, Louis Jean Theodore, 3,702,133.
- Vulmiere, Jacques Claude; and Vulmiere, Huguette Nelly, 3,675,984.
- Etablissement Public: Agence Nationale de Valorisation de la Recherche 'Anvar': See—
- Bonnefille, Robert; Rialland, Jean Francois; and Robert, Jack, 3,649,364.
- Bonnet, Maurice; and Courtes, Georges, 3,664,741.
- Etablissement Radiator: See—
- Jonsson, Finn Lennart; Trolle, Sten; and von Platen, Baltzar Carl, 3,674,403.
- Von Platen, Baltzar Carl; Jonsson, Finn Lennart; and Trolle, Sten, 3,687,066.
- Etablissements A. Chomarat & Cie: See—
- Mao, Gerard, 3,637,456.
- Etablissements Anver S.A.: See—
- Gras, Elie, 3,705,071.
- Etablissements Benes Marrel: See—
- Guillot, Jack, 3,650,106.
- Etablissements Bertrand Faure: See—
- Christin, Georges, 3,705,604.
- Etablissements Brissoneau et Lotz: See—
- Filhol, Jean, 3,688,137.
- Etablissements Butin-Gillet: See—
- Tellot, Raymond Jean Bernard, 3,704,983.
- Etablissements Carpano & Pons: See—
- Lemery, Jean-Paul, 3,670,855.
- Etablissements Clin-Byla: See—
- Lafille, Claude, 3,702,335.
- Lavril, Maurice, 3,660,296.
- Mousseron, Max J., 3,644,344.
- Mousseron, Max J., 3,678,041.
- Mousseron, Max J., 3,704,296.
- Etablissements E. Ragonot: See—
- Margrain, Pierre; and Lacroux, Gerard, 3,694,907.
- Etablissements Emile Haefely SA: See—
- Bonvallet, Roger, 3,636,691.
- Etablissements Genoud & Cie: See—
- Genoud, Jean, 3,695,814.
- Etablissements Georges Klein & Cie: See—
- Ulmann, Charles, 3,633,311.
- Etablissements J. J. Carnaud & Forges de Basse-Indre: See—
- Emile, Billy; and Meudon, Jean, 3,685,683.
- Etablissements Lachaussee, societe anonyme: See—
- Lachaussee, Maurice L.; and Maigret, Andre D., 3,641,801.
- Etablissements Pain-Bourgeois: See—
- Matas, Carlos, 3,696,682.
- Matas, Gabalda Carlos, 3,685,269.
- Etablissements Pennel & Flipo: See—
- Pennel, Gerard J.; Prouvost, Gonzague J.; and Pruvost, Robert P., 3,683,431.
- Etablissements Pierre Mengin: See—
- Girardier, Jean-Pierre, 3,692,422.
- Etablissements Pompes Guinard: See—
- Guinard, Paul Andre, 3,671,152.
- Etablissements Public: Agence Nationale de Valorisation de la Recherche (ANVAR): See—
- Moczar, Madeleine Csanadi; Moczar, Elemer; and Payrau, Paul Bertrand, 3,676,298.
- Etablissements Recoules & Fils, Industrielle (France): See—
- Bouzounie, Lucien, 3,689,171.
- Etablissements Rousselet: See—
- Rousselet, Joseph, 3,642,136.
- Etablissements Ruby S.A.: See—
- Chapuis, Robert, 3,658,273.
- Chapuis, Robert, 3,699,966.
- Etablissements Sourdillon, Matricage et Robinetterie de Precision: See—
- de Gouville, Jean-Bernard, 3,632,040.
- Etablissements Tiflex: See—
- Leopold, Henri; and Pomathios, Jacques, 3,676,128.
- Etablissements Valois: See—
- Angele, Henry, 3,635,379.
- Etablissement Public: Agence Nationale de Valorisation de la Recherche (ANVAR): See—
- Lemaître, Gerard, 3,693,301.
- Etat Francais: See—
- Barbarin, Jean-Francois; and Beaumatin, Jacques, 3,704,021.
- Bouisse, Jean Marie Germain; Martel, Charles Etienne Georges; and Villey-Desmeserets, Franck Pierre Antoine, 3,706,283.
- Martier, Jean, 3,664,801.
- Maxime, Jacques Paul Robert; and Maurel, Andre Bernard, 3,677,134.
- Mesnet, Jean Dominique Francois Gerard; Le Guennec, Raymond Louis; and Dadon, Georges Edouard Louis Leon, 3,659,813.
- Etat Francais, represente par le Ministere des Armees, Delegation Ministerielle pour l'Armement-Direction Technique des Constructions Aeronautiques et Compagnie Francaise: See—
- Francois, Marcel, 3,686,999.
- Etat Francais, represente par le Ministere des Armees Delegation Ministerielle pour l'Armement Direction des Poudres: See—
- Faidutti, Michel; Boileau, Jacques; Konrat, Jean-Paul; and Bil-laz, Rene, 3,671,535.
- Teichner, Stanislas Jean; and Gilbert, Andre Nicolaon, 3,672,833.
- Etat Francais represente par Le Ministere des Armees, Delegation Ministerielle pour l'Armement (Direction des Poudres): See—
- Amiable, Rene; Lhuillier, Jean-Noel; and Benkheiri, Paul, 3,667,391.
- Etat Francais represente par le Ministere charge de la Defense Nationale Delegation Ministerielle pour l'Armement: See—
- Lagofun, Guy Jean Theodore, 3,704,354.
- Etat Francais-Delegation Ministerielle pour l'Armement: See—
- Bruniaux, Bernard Jean Pierre Louis Lucien; and Le Corre, Roger Jean, 3,670,683.
- Etat Francais represente par le Ministere d'Etat charge de la Defense Nationale Delegation Ministerielle pour de la Porte d'Issy: See—
- Decot, Claude Jean Maurice; and Darmagnac, Tarbes Jean Eugene, 3,704,989.
- Etchelecou, Robert J. L. Log rolling apparatus. 3,633,905, 1-11-72, Cl. 272-60.
- Etchell, Gordon, to North American Rockwell Corporation. Printing plates in registry. 3,677,121, 7-18-72, Cl. 83-437,000.
- Etchell, Gordon, to North American Rockwell Corporation. Saddle lockup for flexible printing plate. 3,696,744, 10-10-72, Cl. 101-415,100.
- Etcheverry, John P.: See—
- Greenwood, Roger; and Etcheverry, John P., 3,677,298.
- Etchison, John O., Jr., to Western Electric Company, Incorporated. Method of and apparatus for measuring a time varying characteristic of a magnetic core. 3,636,438, 1-18-72, Cl. 324-34.
- ETEC Corporation: See—
- Dao, James; and Yew, Nelson C., 3,676,670.
- Etelson, Jerome H.; trading as Etelson, Costanzo & Associates: See—
- Costanzo, Nicholas Joseph, Jr., 3,653,317.
- Etes, Donald E.: See—
- Rossbach, Donald W.; and Etes, Donald E., 3,694,014.
- Etes, Donald E., to Hollister Incorporated. Composition containing gel. 3,640,741, 2-8-72, Cl. 106-170.
- Etheridge, J. Ray. Anti-theft auto switch. 3,681,544, 8-1-72, Cl. 200-44,000.
- Etherington, Michael, to Electric & Musical Industries Limited. Function evaluating apparatus. 3,657,726, 4-18-72, Cl. 235-150.2.
- Etherington, Robert W.; and Liauw, Koei-Liang, to Mobil Oil Corporation. Catalytic oxidative dehydrogenation of esters. 3,639,458, 2-1-72, Cl. 260-486.
- Etherington, Robert W., Jr.; and Liauw, Koei-Liang, to Mobil Oil Corporation. Catalytic oxidative dehydrogenation of ketones with improved supported gold catalyst. 3,673,255, 6-27-72, Cl. 260-586,000.
- Etherington, Robert W., Jr.; and Kaeding, Warren W., to Mobil Oil Corporation. Preparation of alkyl-substituted phenols. 3,706,807, 12-19-72, Cl. 260-624,00c.
- Etherington, Roger F., to California Injection Molding Co., Inc. Fluidic sensing for molding system. 3,677,680, 7-18-72, Cl. 425-129,000.
- Ethicon, Inc.: See—
- Beroff, Howard; and Richmond, Ernest L., 3,701,725.
- Beroff, Howard; and Richmond, Ernest L., 3,703,452.
- Edwards, Leon C.; Mandel, Harvey B.; and Tillstrom, Carl R., 3,650,274.
- Nichols, Joseph; and Scxsmith, Frederick H., 3,651,204.
- Schneider, Allan K., 3,636,956.
- Ethicon, Inc., mesne: See—
- Berger, Alan; and Schneider, Alfred L., Jr., 3,648,949.
- Ethier, Dolores O.: See—
- Gobran, Ramsis; Kremer, Leon V.; and Ethier, Dolores O., 3,649,579.
- Ethridge, Frederick A.: See—
- Binford, Jack C.; Ethridge, Frederick A.; and Talbot, James R., 3,703,753.
- Ethridge, Fredrick A.: See—
- Binford, Jack C.; Ethridge, Fredrick A.; and Talbot, James R., 3,654,677.
- Ethyl Corporation: See—
- Ashby, Eugene C.; Foster, Walter E.; and Redman, Horace E., 3,639,104.
- Ashby, Eugene C.; and Kobetz, Paul, 3,647,399.
- Asinger, Friedrich, 3,657,354.
- Axtell, William R.; and DeWitt, Earl G., 3,660,313.
- Batson, Davis M., 3,634,156.
- Batson, Davis M., 3,634,157.
- Beard, William Q., Jr., 3,644,560.
- Beard, William Q., Jr., 3,644,561.
- Beard, William Q., Jr., 3,658,933.
- Beard, William Q., Jr., 3,658,934.
- Beard, William Q., Jr., 3,702,311.
- Beaver, Phillip R.; and Geddes, James C., Jr., 3,657,300.
- Beirne, Patrick D., 3,637,585.
- Berry, Currie B., 3,703,763.
- Berry, Currie B., Jr., 3,669,654.
- Berry, Currie B., Jr., 3,671,221.
- Berry, Currie B., Jr.; and Fanning, Robert J., 3,705,030.
- Brendel, Gottfried J., 3,674,846.
- Brendel, Gottfried J.; and Shepherd, Lawrence H., Jr., 3,692,847.
- Bryce-Smith, Derek; and Adcock, Stuart Samuel, 3,647,715.
- Bryce-Smith, Derek; and Adcock, Stuart Samuel, 3,652,668.
- Burns, William, 3,634,049.

- Cook, Shirl E.; and Williams, Kenneth C., 3,644,450.
Cragg, Hoyt J.; and Lindsay, Kenneth L., 3,651,114.
Cragg, Hoyt J.; and Nolen, Doyle A., 3,660,447.
Darre, Bernard J., 3,655,701.
Dubeck, Michael; and Brackenridge, David R., 3,647,883.
Dubeck, Michael; and Shubkin, Ronald L., 3,678,083.
Fadner, Thomas A.; and Kraske, Karl V., 3,702,779.
Fanning, Robert J., 3,646,078.
Fanning, Robert J., 3,657,293.
Frey, Frederick W., Jr.; Hutchinson, Donald O.; and Seth, Kishan K., 3,661,561.
Geddes, James C., Jr., 3,652,685.
Green, Warren E.; and Perry, George H., 3,661,540.
Hall, Crayton G., 3,692,513.
Harkins, Alvin E., Jr., 3,655,520.
Hildreth, Clarence L., 3,704,113.
Hnizda, Vincent F., 3,682,702.
Hornbaker, Edwin D.; Sparks, Bryan; and Orloff, Harold D., 3,689,355.
Hudson, Russell L.; Williams, Kenneth C.; and Smith, Martin B., 3,647,777.
Jackisch, Philip F., 3,642,887.
Jarema, Chester P.; and Nicbylski, Leonard M., 3,707,401.
Jones, John T.; Ludt, William C.; and Kellogg, Hudson W., 3,690,851.
Keblys, Kestutis A.; and Shubkin, Ronald L., 3,694,502.
Kleiman, Joseph P.; and Mack, Robert L., 3,658,506.
Kleiman, Joseph P.; Malec, Robert E.; and Plonsker, Larry, 3,694,382.
Klopfers, Oskar E. H., 3,654,331.
Klopfers, Oskar E. H., 3,661,839.
Klopfers, Oskar E. H., 3,678,113.
Kobetz, Paul; and Becker, Warren E., 3,687,994.
Kobetz, Paul, 3,689,584.
Kobetz, Paul; Lindsay, Kenneth L.; and Cook, Shirl E., 3,691,221.
Kobetz, Paul; and Lindsay, Kenneth L., 3,696,161.
Kobetz, Paul; Becker, Warren E.; and Giraitis, Albert P., 3,705,051.
Kucsmas, Michael E.; and Parker, Wallace W., 3,660,149.
Lanier, Carroll W., 3,663,647.
Lanier, Carroll W., 3,686,250.
Lehikoinen, Urho A., 3,679,594.
Lenane, Denis L., 3,688,476.
Leventhal, Howard L., 3,670,953.
Leventhal, Howard L., 3,670,954.
Ludt, William C.; and Watson, Edward P., 3,686,924.
Malec, Robert E.; and Immethun, Peter A., 3,637,501.
Malec, Robert E., 3,673,226.
Marble, Charles E., 3,694,175.
Marsee, Frederick J., 3,646,921.
McCarthy, John H.; and Wikman, Andrew O., 3,642,921.
Meltner, Bernard R., 3,635,884.
Meltner, Bernard R., 3,637,586.
Meltner, Bernard R., 3,644,281.
Meltner, Bernard R., 3,658,706.
Meltner, Bernard R., 3,662,033.
Messina, Steven J., 3,658,492.
Mitchell, Lawrence C., 3,642,914.
Napolitano, John P., 3,649,693.
Nelson, Gunner E.; Becker, Warren E.; and Kobetz, Paul, 3,651,064.
Nelson, Gunner E., 3,686,248.
Nelson, Gunner E., 3,696,047.
Nelson, Gunner E., 3,696,136.
O'Neill, James D., 3,692,679.
Perilstein, Warren L., 3,703,360.
Perilstein, Warren L., 3,704,105.
Phillips, Robert F., 3,642,252.
Phillips, Robert F., 3,694,009.
Plonsker, Larry; Perilstein, Warren L.; and Malec, Robert E., 3,700,598.
Robinson, Gene C., 3,636,161.
Rogosch, John E.; and Williams, Floyd B., 3,687,764.
Sanders, Robert N.; and Johnston, James D., 3,669,266.
Schell, Raymond A., 3,660,439.
Schell, Raymond A., 3,661,948.
Schell, Raymond A.; and Kehoe, Lawrence J., 3,674,889.
Schell, Raymond A., 3,681,415.
Seth, Kishan K.; and Lanier, Carroll W., 3,661,562.
Shepherd, Lawrence H., Jr., 3,634,482.
Shepherd, Lawrence H., Jr., 3,641,084.
Shepherd, Lawrence H., Jr., 3,641,186.
Shepherd, Lawrence H., Jr., 3,642,825.
Shepherd, Lawrence H., Jr., 3,669,990.
Shepherd, Lawrence H., Jr., 3,670,001.
Shepherd, Lawrence H., Jr., 3,670,038.
Shubkin, Ronald L., 3,644,443.
Shubkin, Ronald L., 3,661,957.
Sims, Leslie L., 3,646,086.
Stephens, Ruth E., 3,676,370.
Thomas, Wilford H.; Kobetz, Paul; and Giraitis, Albert P., 3,661,952.
Tulley, Frederick T., 3,644,271.
Unick, Alvin J.; and Abowd, Richard G., Jr., 3,650,711.
Unick, Alvin J.; and Gault, Kenneth W., 3,676,348.
Valdo, Alex R.; and Sanderford, Freeman M., 3,704,117.
Valdo, Alex R.; and Jones, Jerry M., 3,704,193.
Waltman, Robert E.; Coast, John B.; and Hinz, Gary A., 3,649,148.
Wilder, Harry D., 3,632,469.
Wilder, Harry D., 3,652,387.
Williams, Kenneth C., 3,634,481.
Williams, Kenneth C.; and Cook, Shirl E., 3,644,451.
Williams, Kenneth C., 3,644,452.
Williams, Kenneth C., 3,647,837.
Williams, Kenneth C.; and Thomas, Wilford H., 3,647,838.
Wollensak, John C., 3,646,073.
Wollensak, John C.; and Zaweski, Edward F., 3,683,054.
Wollensak, John C.; and Napolitano, John P., 3,678,112.
Worrel, Calvin J., 3,642,691.
Wright, William E., 3,632,631.
Yang, Meiling T., 3,635,829.
Yang, Meiling T., 3,637,511.
Yang, Meiling T., 3,683,014.
Zaweski, Edward F.; and Meltner, Bernard R., 3,647,749.
Zaweski, Edward F., 3,652,679.
Zaweski, Edward F., 3,694,357.
Ethyl Development Corporation: See—
Baugh, William A., 3,682,345.
Marchant, Paul A., 3,648,903.
Marchant, Paul A., 3,679,137.
Ethylene Plastique: See—
Lambert, Bernard, 3,679,777.
Ethylene-Plastique: See—
Barozier, Jean-Pierre; and Nicco, Adrien, 3,702,782.
Coquelin, Robert, 3,663,134.
Ethylox Products, Inc.: See—
Dykstra, Edward G., 3,706,620.
Etimex Interplastic GmbH: See—
Welle, Dieter, 3,674,391.
Eto, Kiyomitsu: See—
Nishi, Seiya; Oshio, Akira; and Eto, Kiyomitsu, 3,676,541.
Eto, Yoshizumi; and Hibi, Masao, to Hitachi, Ltd. Chrominance signal generator having a patterned filter. 3,647,947, 3-7-72, Cl. 178-5.4.
Eto, Yoshizumi; and Hibi, Masao, to Hitachi, Ltd. Chrominance signal generator having striped filter. 3,647,948, 3-7-72, Cl. 178-5.4.
Etoh, Kuniomi: See—
Hamanaka, Yasushi; Tajiri, Hiromi; Etoh, Kuniomi; Furukawa, Kaoru; and Masai, Yukito, 3,640,761.
Etoh, Yukihiko: See—
Aono, Shigeo; Manaka, Nobuzi; Inagaki, Tokuchi; Nakajima, Yasuo; and Etoh, Yukihiko, 3,673,989.
Etronic Corporation: See—
Goodenough, Walter E., 3,646,685.
Ets. Carpano & Pons: See—
Laszlo, Nicolai, 3,675,937.
Ets J. J. Carnaud & Forges de Basse-Indre: See—
Petit, Maurice; and Thomas, Georges, 3,704,140.
Ets. Meyer & Grandgirard S.A.: See—
Burdet, Georges, 3,665,701.
Ets Pechiney-Progil: See—
Demozay, Daniel, 3,644,652.
Ettelman, David J., to Multi-Amp Corporation. Device for testing the adequacy of electric tools, extension cords and the like including energization removal means to reduce heating. 3,643,157, 2-15-72, Cl. 324-73.
Etten, Ronald F.; and Duncan, Lewis C. Emergency treatment tank. 3,692,028, 9-19-72, Cl. 128-369.000.
Ettenhofer, Anton: See—
Luderer, Manfred H.; and Ettenhofer, Anton, 3,637,135.
Luderer, Manfred H.; and Ettenhofer, Anton, 3,691,991.
Etter, Berwyn E. Machine mounted cutting torch. 3,684,187, 8-15-72, Cl. 239-414.000.
Etter, Doyle O.; and Parrinello, Anthony J., to Eastman Kodak Company. Oleophilizing gelatinous images. 3,650,742, 3-21-72, Cl. 96-33.
Etter, Raymond Lewis, Jr.: See—
Hagemeyer, Hugh John, Jr.; and Etter, Raymond Lewis, Jr., 3,634,546.
Etter, Robert William, to RCA Corporation. Color kinescope production with a temporary mask. 3,653,901, 4-4-72, Cl. 96-36.1.
Etter, William A.: See—
Seaman, Wendell L.; and Etter, William A., 3,631,893.
Etters, James N., to Dan River Inc. Dyeing cellulosic textiles with vat and sulfur dyes using sodium dithionite and an aldehyde-bisulfite addition product stabilizer. 3,645,665, 2-29-72, Cl. 8-32.
Ettinger, Bruce L., to General Electric Company. Method and apparatus for cleaving anisotropic pyrolytically deposited materials on curved surfaces. 3,657,404, 4-18-72, Cl. 264-81.

- Ettinger, Bruce L.; and Wolosin, Samuel M., to General Electric Company. Refractory porous bodies. 3,666,526, 5-30-72, Cl. 117-46.0cb.
Ettinger, Donald H., to USM Corporation. Apparatus for pneumatically feeding studs to a welding gun. 3,694,611, 9-26-72, Cl. 219-98.000.
Ettinger, James P.; and Otteson, Christian S., to Electric Regulator Corporation. Single module power supply. 3,693,050, 9-19-72, Cl. 317-99.000.
Ettischer, Helmut: See—
Huschle, Peter; and Ettischer, Helmut, 3,678,838.
Ettischer, Helmut; and Lieser, Ernst, to Eastman Kodak Company. Self-cocking two bladed photographic shutter. 3,661,066, 5-9-72, Cl. 95-60.000.
Ettischer, Helmut, to Eastman Kodak Company. Simplified synchronizing mechanism for cameras adapted to use mechanically fired flash lamps. 3,677,156, 7-18-72, Cl. 95-11.50r.
Ettischer, Helmut, to Eastman Kodak Company. Shutter control apparatus for photographic cameras. 3,685,408, 8-22-72, Cl. 95-10.00c.
Ettischer, Helmut, to Eastman Kodak Company. Synchronizing mechanism for photographic cameras adapted to use mechanically fired flash lamps. 3,690,236, 9-12-72, Cl. 95-11.50r.
Ettlinger, Louis F., to General Electric Company. Bushing terminal guard. 3,639,681, 2-1-72, Cl. 174-138.
Ettlinger, Ralph, Jr.; and Kostohryz, Frank J., to Avant Industries, Inc. Silverware sorter. 3,653,507, 4-4-72, Cl. 209-97.
Ettlinger, Ralph, Jr.; and Strobl, Frederick P., Jr., to Avant Industries, Inc. Silverware loading apparatus. 3,670,911, 6-20-72, Cl. 214-312.000.
Ettlinger, Ralph, Jr.; and Strobl, Frederick P., Jr., to Avant Industries, Inc. Silverware sorting means. 3,675,770, 7-11-72, Cl. 209-97.000.
Ette, Kitty S.; and Castles, George Richard, to Vitta Corporation. Tape transfer to sinterable conductive, semiconductive or insulating patterns to electronic component substrates. 3,655,496, 4-11-72, Cl. 161-39.
Ettridge, Michael P. Supports for window sashes. 3,648,410, 3-14-72, Cl. 49-192.
Etudes et Bonneterie SA: See—
Bourgeois, Norbert Paul, 3,670,527.
Etudes et Fabrication Aeromautiques: See—
Lemoigne, Pierre Marcel, 3,690,603.
Etudes et Fabrications Aeronautiques: See—
Pravaz, Marcel, 3,692,263.
Pravaz, Marcel, 3,703,268.
Etz, Herbert: See—
Johst, Wolfgang; and Etz, Herbert, 3,688,346.
Etzbach, Volker; and Forg, Wolfgang, to Linde Aktiengesellschaft. Refrigeration cycle for the liquefaction of natural gas. 3,702,063, 11-7-72, Cl. 62-23.000.
Etzold, Roland: See—
Elmendorf, Armin; Vaughan, Thomas W.; and Etzold, Roland, 3,639,200.
Eu Daly, Ronald Dale: See—
Christensen, Edward Walter, II; and Eu Daly, Ronald Dale, 3,697,909.
Eubank, Joseph P., Jr. Picture frame. 3,676,944, 7-18-72, Cl. 40-155.000.
Eubank, William J., to Irvin Industries Inc. Spring latching safety belt push type. 3,698,046, 10-17-72, Cl. 24-230.00a.
Eubank William Marion: See—
Murphy, Kenneth Earl; Eubank William Marion; and Williams, Lamar, 3,667,776.
Eubanks, Edgar W.: See—
Meyers, Raymond E.; and Eubanks, Edgar W., 3,678,004.
Eubanks, Weldon N.; and Short, Doyle D. Marine salvage vessel. 3,691,977, 9-19-72, Cl. 114-51.000.
Euchner, William H.; and Ho, Eugene Y., to Farimon Electric. Carrier supply for multiplex communication system. 3,668,327, 6-6-72, Cl. 179-15.0fd.
Euchner, William Henry, Jr., to Farinon Electric. Harmonic generator. 3,663,882, 5-16-72, Cl. 328-33.
Euclid, Inc.: See—
Chant, Leonard H., 3,664,706.
Cheers, Ronald M., 3,671,057.
Vincenty, Henry E., 3,695,708.
Euclid Products Co., Inc.: See—
Finko, Theodore R., 3,695,133.
Eudier, Michel. Brake or clutch lining. 3,687,643, 8-29-72, Cl. 29-192.200.
Eue, Ludwig: See—
Alles, Hans-Ulrich; Klauke, Erich; Kuhle, Engelbert; Eue, Ludwig; and Hack, Helmut, 3,639,668.
Hack, Helmut; Eue, Ludwig; and Schafer, Werner, 3,682,614.
Meiser, Werner; Eue, Ludwig; Hack, Helmut; Timmler, Helmut; and Wegler, Richard, 3,642,861.
Metzger, Carl; Borrmann, Dieter; Wegler, Richard; Eue, Ludwig; and Hack, Helmut, 3,686,198.
Munz, Ferdinand; Hack, Helmut; and Eue, Ludwig, 3,686,204.
Ruckcr, Dietrich; Metzger, Carl; and Eue, Ludwig, 3,657,264.
Schrader, Gerhard; Eue, Ludwig; Hack, Helmut; Hirane, Seiichi; Aya, Masahiro; Kishino, Shigeo; and Fukazawa, Nobuo, 3,636,143.
Schrader, Gerhard; Eue, Ludwig; Hack, Helmut; Hirane, Seiichi; Aya, Masahiro; Kishino, Shigeo; and Fukazawa, Nobuo, 3,705,929.
Euer, Hartmut; and Pauli, Gunter, to Vereinigte Flugtechnische Werke-Fokker GmbH. Apparatus and method for measuring and analyzing dynamic processes. 3,665,505, 5-23-72, Cl. 324-77.
Eufusia, Eugene A.: See—
Thelen, Alfred J.; Bergfelt, Nils H.; and Eufusia, Eugene A., 3,636,916.
Eugene-Gallia, Societe Anonyme: See—
Galerie, Jean, 3,647,350.
Eul, Edward A., Jr.; and Richter, Ronald B., to Ampex Corporation. Demagnetizer/cleaner. 3,647,990, 3-7-72, Cl. 179-100.2.
Eulenberg, Hannspeter; and Van Veldhoven, Gerardus Antonius Wilhelmus, to U.S. Philips Corporation. Circuit arrangement for generating a line frequency parabolically modulated sawtooth current of field frequency through a field deflection coil. 3,676,733, 11-7-72, Cl. 315-27.0gd.
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Eulenhof, Hans-Gerd: See—
Strickrodt, Jorg; Engemann, Gotthard; and Eulenhof, Hans-Gerd, 3,705,921.
Euler, Fred J.: See—
James, Jack L.; and Euler, Fred J., 3,636,355.
Euling, Raymond: See—
Bierman, George; Euling, Raymond; and Jones, Paul W., 3,671,107.
Eunson, Charles: See—
Kerkham, Algernon; and Eunson, Charles, 3,632,002.
Eureka Carlisle Company: See—
Peery, Walter E., 3,645,465.
Eurich, Robert C. Tension adjustment for stringed musical instruments. 3,695,137, 10-3-72, Cl. 84-312.000.
Eurofina-Investimentos e Estudos Tecnicos e Financeiros, S.A.R.L.: See—
De Barros, Manuel Joaquim Monteiro, 3,696,576.
European Atomic Energy Community (Euratom): See—
Bernard, Jean Andre; and Faraoni, Adamo Renato, 3,691,614.
Buzzi, Umberto; Dufresne, Jacques Pierre; and Farfaletti-Casali, Flaviano, 3,677,328.
Fiebelmann, Peter; and Neu, Helmut, 3,668,070.
Gaggero, Giancarlo; Mongini-Tamagnini, Carla; and Settiani, Antoine, 3,700,162.
Grin, Michel; and Marchal, Francois, 3,699,297.
Lanza, Franco; and Marengo, Giuseppe, 3,664,865.
Orecchia, Luigi, 3,666,869.
Vanderschueren, Emile, 3,693,583.
Wurm, Joseph-Gerard; and Payrissat, Maurice, 3,666,425.
Europote S.A.: See—
Blanco, Antonio Lopez, 3,687,711.
EUROSICMA-Societa Italiana Costruzioni Macchine Automatiche S.r.l.: See—
Tamagni, Luigi, 3,641,737.
Eusebi, Elio, to General Motors Corporation. Polyethylene filled with treated chrysotile. 3,654,202, 4-4-72, Cl. 260-23.
Eusebi, Elio, to General Motors Corporation. Thermoplastic resin containing styrene-acrylonitrile copolymer and chlorinated polyethylene. 3,658,950, 4-25-72, Cl. 260-897.00c.
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Eustice, Albert L. Adhesive interlayer suitable for constrained layer vibration damping. 3,658,635, 4-25-72, Cl. 161-190.
Eustis, William E. C.; and Howell, Wallace E., to Hedco, Inc. Snow precipitator. 3,703,991, 11-28-72, Cl. 239-2.00s.
Eutectic Corporation: See—
Joseph, A. David, 3,674,471.
Eutectic Welding Alloys Corporation: See—
Wishnie, Frederick T., 3,676,310.
Eutzler, Betty J. Device to prevent pilferage of merchandise. 3,690,130, 9-12-72, Cl. 70-18.000.
Evalahiti, Osmo Rainer, to Osakeyhtio, A. Ahlstrom. Headbox for a paper machine providing for simultaneous adjustment of the front wall and mixing roll therein. 3,674,633, 7-4-72, Cl. 162-342.
Evalds, Egils. Circuit for controlling a heat generating device. 3,648,077, 3-7-72, Cl. 307-252.
Evalds, Egils. Temperature control circuit employing a variable resistance heating element. 3,679,871, 7-25-72, Cl. 219-499.000.
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Evalds, Egils, to Athena Controls, Inc. Thermocouple temperature control system. 3,684,172, 8-15-72, Cl. 236-78.000.

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- Evand, Lyle W.; and Slobbe, Walter W., to Sylvania Electric Products, Inc. Method of forming a color cathode ray tube screen. 3,689,265, 9-5-72, Cl. 96-36.100.
- Evangelisti, Carlo J.: See—
Baskin, Herbert B.; Belady, Laszlo A.; Evangelisti, Carlo J.; and Morse, Stephen P., 3,680,078.
- Evangelisti, Carlo J.; and Rittenhouse, Larry E., to International Business Machines Corporation. File access system. 3,668,647, 6-6-72, Cl. 340-172.500.
- Evani, Syamalarao: See—
Hanson, Alden W.; Evani, Syamalarao; and Drake, Lewis R., 3,687,906.
- Labarge, Robert G.; Evani, Syamalarao; and Hanson, Alden W., 3,696,043.
- Evans & Sutherland Computer Corporation: See—
Sutherland, Ivan E., 3,684,876.
- Evans, Antony C., to Kelsey-Hayes Company. Disk type brake with split primary shoe. 3,662,864, 5-16-72, Cl. 188-72.2.
- Evans, Archibald D. Solar still. 3,703,443, 11-21-72, Cl. 202-190.000.
- Evans, Benjamin E.: See—
Smith, James W., Sr.; Evans, Benjamin E.; Riggles, William M., Jr.; and Schormann, Umas, 3,664,456.
- Evans, Carlton F.: See—
Baxter, Robert O.; Hollis, Clint R.; and Evans, Carlton F., 3,664,238.
- Evans, Charles C.; and Sommer, Harry J., to Shell Oil Company. Paving asphalt compositions. 3,664,856, 5-23-72, Cl. 106-278.
- Evans, Chauncey R., to Columbia Broadcasting System, Inc. Tone generator employing symmetrical wave generator rectangular. 3,637,913, 1-25-72, Cl. 84-1.01.
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- Evans, Clive, to Mitsubishi Heavy Industries, Ltd. Dummy bar mechanism. 3,653,427, 4-4-72, Cl. 164-274.
- Evans, Cyril G., to Heathcoat, John, and Company Limited. Carbon filaments. 3,692,577, 9-19-72, Cl. 117-225.000.
- Evans, David B.: See—
Perrin, Alfred J.; Dell John D.; Evans, David B.; and Lewis, George Stanley, 3,677,339.
- Evans, David C.: See—
Erdahl, Alan C.; and Evans, David C., 3,665,408.
- Evans, David F.: See—
Litvinoff, James R.; and Evans, David F., 3,698,327.
- Evans, David G.: See—
Clift, Charles E.; and Evans, David G., 3,636,550.
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- Evans, David J. I.; and Weir, Donald Robert, to Sherritt Gordon Mines Limited. Recovery of nickel from nickel ammonium carbonate systems. 3,674,465, 7-4-72, Cl. 75-108.000.
- Evans, David Llewellyn. Lifting devices. 3,682,342, 8-8-72, Cl. 214-653.000.
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Chabala, Leonard V.; and Evans, David M., 3,696,729.
- Evans, David Maurice; and Theodore, Roy, to S & C Electric Company. Switch construction with non-bounce contacts. 3,676,629, 7-11-72, Cl. 200-166.00c.
- Evans, David T., to Wells Manufacturing Corporation. Band saw blade cleaning means. 3,673,903, 7-4-72, Cl. 83-168.000.
- Evans, Delme: See—
Dunwell, David William; and Evans, Delme, 3,694,441.
- Evans, Delme, to Lilly Industries, Ltd. Anti-inflammatory method. 3,674,871, 7-4-72, Cl. 424-270.000.
- Evans, Dennis J.; and Elam, Richard C., to United Aircraft Corporation. Cobalt base coating for the superalloys. 3,676,085, 7-11-72, Cl. 29-194.000.
- Evans, Dewey M.; and Manetta, Peter J., to Simplex Corporation. Automatic loading and transfer equipment. 3,651,958, 3-28-72, Cl. 214-1.
- Evans, Dick, Inc.: See—
Evans, Richard V.; Williams, Virgil, Jr.; and Reiher, Max A. W., 3,636,876.
- Evans, Edward Michael; and Jeffreys, Kerry David, to BP Chemicals (U.K.) Limited. Binder mixture for friction elements comprising phenolic resin and precipitated silicate. 3,655,609, 4-11-72, Cl. 260-38.
- Evans, Ernest C., to Kimberly-Clark Corporation. Cleansing lotion for personal hygiene. 3,634,259, 1-11-72, Cl. 252-89.
- Evans, Ernest C., to Kimberly-Clark Corporation. Surface protection material. 3,669,252, 6-13-72, Cl. 206-46.0fn.
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- Evans, Francis E.: See—
Spatz, Sydney M.; Bailey, Maurice E.; and Evans, Francis E., 3,637,514.
- Evans, Francis J., to Eastman Kodak Company. Photosensitive and thermosensitive elements, compositions and processes. 3,667,958, 6-6-72, Cl. 96-114.100.
- Evans, G. C., Products Corporation: See—
Evans, Grover C.; and Evans, Thomas J., 3,660,910.
- Evans, Geoffrey Ian: See—
Gordon, Stuart; Evans, Geoffrey Ian; and Cunliffe, Alwyn, 3,678,138.
- Evans, George: See—
Cekoric, Thomas, Jr.; Evans, George; and Searcy, Ronald, 3,668,075.
- Cekoric, Thomas, Jr.; Evans, George; and Searcy, Ronald, 3,671,399.
- Cekoric, Thomas, Jr.; and Evans, George, 3,671,400.
- Evans, George L.; Kronish, Donald P.; Prevorsek, Metka; Schwartz, Benjamin S.; and Zuriff, Lee S., to Warner-Lambert Company. Paper strip test for citrate utilization. 3,649,461, 3-14-72, Cl. 195-103.5.
- Evans, Gerald R.: See—
Evans, Robert P.; Hussar, Joseph P.; Evans, Gerald R.; and Dunn, Robert T., 3,705,960.
- Evans, Grover C.; and Evans, Thomas J., to Evans, G. C., Products Corporation. Apparatus for heating and drying chilled, filled containers. 3,660,910, 5-9-72, Cl. 34-60.
- Evans, Hugh W.: See—
Beardmore, Geoffrey; and Evans, Hugh W., 3,684,678.
- Evans, Ivor: See—
Clarke, Terence J. L.; and Evans, Ivor, 3,684,628.
- Evans, J., & Son (Portsmouth) Limited: See—
Fulcher, Harold Henry, 3,667,809.
- Evans, Jack, to United States of America, National Aeronautics and Space Administration. Solenoid valve including guide for armature and valve member. 3,632,081, 1-4-72, Cl. 251-129.
- Evans, James G.: See—
Gartman, William W.; Evans, James G.; and Allen, Harold A., 3,701,682.
- Evans, James P., 2% to Trindle, Polly E. and Kathryn, Mary. Mud flap structure. 3,650,543, 3-21-72, Cl. 280-154.5.
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- Evans, Jerry E.; and Evans, Robert A. Wire mesh jig board. 3,681,835, 8-8-72, Cl. 29-203.00j.
- Evans, John D., to Metals, Inc. Stock rack. 3,696,763, 10-10-72, Cl. 108-157.000.
- Evans, John H., to Allis-Chalmers Manufacturing Company. Cam actuated interlock for pivot arm. 3,692,149, 9-19-72, Cl. 188-69.000.
- Evans, John L.; and Rubino, Anthony G., to Singer Company, The, mesne. Method for producing bearing hemispherical cavities. 3,644,972, 2-29-72, Cl. 29-149.5.
- Evans, John S., Jr.; and Jasper, Leslie L., to Mark Products, Inc. Orienting apparatus. 3,690,487, 9-12-72, Cl. 214-340.000.
- Evans, John T.; and Kelling, Leroy U. C., to General Electric Company. Readout system for visually displaying stores data. 3,651,481, 3-21-72, Cl. 340-172.5.
- Evans, John T., to General Electric Company. Direct feed rate control circuit. 3,657,525, 4-18-72, Cl. 235-151.11.
- Evans, Joseph H.: See—
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- Evans, Josie V.: See—
Clarke, Terence J. L.; and Evans, Ivor, 3,684,628.
- Evans, Kenneth R. Noise suppressing device for fluid flow lines. 3,695,290, 10-3-72, Cl. 137-563.000.
- Evans, Lewis M.: See—
Budris, Allan R.; McGowan, Frank J.; Evans, Lewis M.; Wayne, Theodore J.; Lithen, Eric E.; and Darcy, Charles B., 3,646,901.
- Evans, Marshall E.; and Platt, David M. H., to Coming Glass Works. System for controlling the electrical field in a fluid analyzing chamber. 3,649,504, 3-14-72, Cl. 204-195.
- Evans, Marvin; and Miller, David H., to College Research Corporation. Afterburner. 3,658,482, 4-25-72, Cl. 23-277.
- Evans, Marvin. Tape reel with cutter blade. 3,682,361, 8-8-72, Cl. 225-60.000.
- Evans Medical Limited: See—
Badcock, George Gerald; and Dyke, Wilfred James Cecil, 3,639,631.
- Evans, Milton L.: See—
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- Holub, Fred F.; and Evans, Milton L., 3,652,716.

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- Evans, Milton L.; Mitchell, Tyrone D.; and Selin, Terry G., to General Electric Company. Method of making imidatosilanes. 3,646,084, 2-29-72, Cl. 260-448.2.
- Evans, Milton L., to General Electric Company. Imidatosilanes. 3,665,026, 5-23-72, Cl. 260-448.8.
- Evans, Monroe E., to Cape Fear Feed Products, Inc. Terminal heating process for freeing feed ingredients of salmonella. 3,666,498, 5-30-72, Cl. 99-216.000.
- Evans, Norol T., to Hughes Aircraft Company. Automatic detection criteria control unit for pencil beam radars. 3,680,095, 7-25-72, Cl. 343-7.00a.
- Evans, Pat E.: See—
Bucklin, Edward P., Jr.; Evans, Pat E.; and Gerlach, Richard K., 3,656,130.
- Congleton, David B.; Roberts, Donald L.; and Evans, Pat E., 3,701,999.
- Evans, Paul F.: See—
Lees, Harold D.; Evans, Paul F.; Maltz, Martin S.; and Vipond, Edward W., 3,692,659.
- Evans, Philip Henry, to Glenburn Engineering Limited; c/o Conyers Dill & Pearson Bank of Bermuda Bldg. Centrifugal governor speed control for electric motors. 3,660,703, 5-2-72, Cl. 310-68.00e.
- Evans Products Company: See—
Chapman, Harvey W.; and Shook, Jackson A., 3,680,491.
- Krokos, Raymond M.; and MacCurdy, William K., 3,691,963.
- MacCurdy, William K., 3,648,851.
- Mikulka, Bohuslav E., 3,632,371.
- Sarrail, John L., 3,636,998.
- Spaeth, Irvin J., 3,703,225.
- Weage, Kenneth A., 3,680,492.
- Evans Products Company, mesne: See—
Ford, Ralph E.; and Ternes, Donald J., 3,634,986.
- Evans, Ralph Henry, Jr.; and Holmlund, Chester Eric, to American Cyanamid Company. Preparation of 5,6-dihydro-5-hydroxy-6-propenyl-2-pyrone by fermentation and derivatives thereof. 3,701,787, 10-31-72, Cl. 260-343.500.
- Evans, Ralph M., to Royal Industries, Inc. Laminating method and apparatus. 3,668,033, 6-6-72, Cl. 156-212.000.
- Evans, Raymond J.; and Reinhardt, George L., to Continental Can Company, Inc. Method of manufacturing container bodies from composite strip material; container body blanks and container bodies. 3,656,513, 4-18-72, Cl. 138-141.
- Evans, Richard A., to Lockheed Aircraft Corporation. Cargo restraint mechanism. 3,641,940, 2-15-72, Cl. 105-369.
- Evans, Richard E.; and Zacher, Harold D., to Standard Oil Company (Indiana). Control of contact time in transport reactors. 3,644,199, 2-22-72, Cl. 208-120.
- Evans, Richard H., to Hercules Incorporated. Aqueous explosive compositions having reversible fluent-non-fluent properties. 3,684,594, 8-15-72, Cl. 149-38.000.
- Evans, Richard J., to Armstrong Cork Company. Wall edge trimmer for hard surface flooring. 3,653,124, 4-4-72, Cl. 30-293.
- Evans, Richard O.: See—
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- Evans, Richard V.; Williams, Virgil, Jr.; and Reiher, Max A. W., to Evans, Dick, Inc. Method and apparatus for installing pipe nipple. 3,636,876, 1-25-72, Cl. 102-24.
- Evans, Robert A.: See—
Evans, Jerry E.; and Evans, Robert A., 3,681,835.
- Evans, Robert F.: See—
Black, Richard W.; and Evans, Robert F., 3,697,933.
- Evans, Robert G.; and Stifel, George R. P., to Uniroyal Ltd., mesne. Polyurethane foam with integral skin. 3,664,976, 5-23-72, Cl. 260-2.5.
- Evans, Robert G. Two-stage drop hammer for driving large diameter piling. 3,700,046, 10-24-72, Cl. 173-103.000.
- Evans, Robert G., Company: See—
Harclerode, John R., 3,635,206.
- Evans, Robert J., to Aurora Equipment Company. Latching mechanism. 3,702,137, 11-7-72, Cl. 211-176.000.
- Evans, Robert P.; Hussar, Joseph P.; Evans, Gerald R.; and Dunn, Robert T. Automatic repository telephone dialer with perforated strip number storage. 3,705,960, 12-12-72, Cl. 179-90.00r.
- Evans, Robert R.; and Backlund, Peter Stanley, to Union Oil Company of California. Powdered wax suitable for emulsions and rubber blending. 3,644,130, 2-22-72, Cl. 106-270.
- Evans, Robert W.; and Jackson, Stuart P., to Delta Venture. Static switch. 3,660,688, 5-2-72, Cl. 307-252.
- Evans, Robert W., to United States of America, Navy, mesne. Signal flare. 3,670,657, 6-20-72, Cl. 102-87.000.
- Evans, Robert W.; Grimm, Richard C.; and Olstein, Myron A., to Susquehanna Corporation, The. Aerosol disseminator. 3,678,857, 7-25-72, Cl. 102-39.000.
- Evans, Robley D. Film badge radiation dosimeter for detecting radon. 3,655,975, 4-11-72, Cl. 250-83.
- Evans, Roger L., to Minnesota Mining and Manufacturing Company. Biodegradable radioactive particles. 3,663,685, 5-16-72, Cl. 424-1.
- Evans, Roger L., to Minnesota Mining and Manufacturing Company. Biodegradable parenteral microspherules. 3,663,687, 5-16-72, Cl. 424-1.000.
- Evans, Ronald James Peter, to Talley Surgical Instruments Limited. Alternating pressure pads for bed patients. 3,678,520, 7-25-72, Cl. 5-91.000.
- Evans, Ross Hugh; Seltzer, Daniel Arron; and Young, Robert Leonard, to Gamon-Calmet Industries, Inc. Telemetering remote recording unit. 3,700,816, 10-24-72, Cl. 179-2.0dp.
- Evans, Sydney; and Graham, Reginald, to Associated Electrical Industries Limited. Beam correcting device for mass spectrometers and method of operation. 3,657,531, 4-18-72, Cl. 250-41.9.
- Evans, Theodore A.; and Conger, Marvin T., to Goodyear Tire & Rubber Company, The. Explosive assembly including a body portion and a closure having a covering of elastomeric material. 3,635,847, 1-18-72, Cl. 260-2.5.
- Evans, Theodore A.; Meck, Robert M.; and Thibodeau, Joseph E., to Goodyear Tire & Rubber Company, The. Compounding fluorocarbons and method of using same. 3,656,530, 4-18-72, Cl. 150-5.
- Evans, Theodore D. Tube clamping member. 3,682,422, 8-8-72, Cl. 248-68.0cb.
- Evans, Theodore D. Hydraulic line fitting support apparatus. 3,695,563, 10-3-72, Cl. 248-56.000.
- Evans, Thomas J.: See—
Evans, Grover C.; and Evans, Thomas J., 3,660,910.
- Evans, Thomas S.: See—
Rod, Trygve R.; and Evans, Thomas S., 3,687,347.
- Evans, Vincent L.; and Dyer, Dennis A., to British Nylon Spinners Limited. Manufacture of synthetic polymeric filaments. 3,694,539, 9-26-72, Cl. 264-210.00f.
- Evans, Wallace D., Jr., to Rolatope Corporation. Measuring wheel apparatus. 3,673,693, 7-4-72, Cl. 33-141.00r.
- Evans, Wallace D., Jr., to Rolatope Corporation. Measuring wheel construction. 3,696,510, 10-10-72, Cl. 33-141.00r.
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- Evans, Wayne Wheeler, to RCA Corporation. VHF/UHF interlock circuit. 3,662,270, 5-9-72, Cl. 325-390.
- Evans, Wendell I., to Cincinnati Milacron, Inc. Multisection valve and housing therefor. 3,698,435, 10-17-72, Cl. 137-625.180.
- Evans, William E.: See—
McKinley, Larry E.; Evans, William E.; and Johnson, Clarence S., 3,633,370.
- Evans, William E.; and Harding, Robert C., to Seaco Computer-Display Incorporated. Surge voltage protection for cathode ray tube drivers. 3,668,465, 6-6-72, Cl. 315-107.
- Evans, William J.: See—
Greskamp, John B.; and Evans, William J., 3,648,337.
- Evans, William L.: See—
Lunsford, Leslie E.; Simmons, Clyde A.; and Evans, William L., 3,699,664.
- Evans, William L., to Du Pont de Nemours, E. I., and Company. Detonating fuse of petn-polyethylacrylate. 3,698,316, 10-17-72, Cl. 102-27.000.
- Evans, William Robert. Resilient pin and method of production thereof. 3,634,819, 1-11-72, Cl. 339-252.
- Evans, William Robert, to AMP Incorporated. Torsion contact zero-insertion force connector. 3,670,288, 6-13-72, Cl. 339-74.00r.
- Evanson, Clifford E., to Baxter Laboratories Inc. Meat injection tenderization apparatus and method. 3,656,424, 4-18-72, Cl. 99-256.
- Evart, Garri Voldemarovich: See—
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- Evel, Eddie A.: See—
Hintze, Melvin M.; Mari, John P.; McDaniel, Roy F.; and Evel, Eddie A., 3,706,044.
- Eveland, Baisel L.: See—
Bower, Robert G.; Eveland, Baisel L.; Markowitz, Ivan N.; and Masterson, Earl E., 3,693,967.
- Even-Tov, Ori; and Dagan, Pinchas, to Israel Aircraft Industries, Ltd. Electrical switch responsive to sudden movements of an external element. 3,634,638, 1-11-72, Cl. 200-61.93.
- Evening News Publishing Company, The: See—
Illingworth, Robert H., 3,633,340.
- Evenson, Christopher B. Elliptical roller bearing. 3,655,251, 4-11-72, Cl. 308-183.
- Evenson, Merle A., to Wisconsin Alumni Research Foundation. Treatment of blood with oleaginous substance. 3,647,624, 3-7-72, Cl. 195-1.8.
- Evenson, Roger A. Apparatus for making pontic cores. 3,661,198, 5-9-72, Cl. 164-246.
- Ever-Ready Appliance Mfg. Co.: See—
Langhi, Bruno A., 3,650,502.
- Everaerts, Frans, to LKB-Produkter AB. Method in counterflow isotachopheresis. 3,705,845, 12-12-72, Cl. 204-180.00r.

- Everest, Charles E.; and Voznick, Henry P., to Wahl, William, Corporation. Electromechanical intervalometer, and method of using same. 3,700,971, 10-24-72, Cl. 317-80.000.
- Everest, David Anthony: *See—*
Chilton, Henry Thomas Joseph; Everest, David Anthony; and Sayce, Ian George, 3,642,453.
- Everett, Cecil D., to Warner & Swasey Company, The, mesne. Automatic balancing device. 3,698,139, 10-17-72, Cl. 51-237.000.
- Everett, Charles T., to Everett Industries Incorporated. Cutting device control. 3,656,261, 4-18-72, Cl. 51-99.
- Everett, Eric George: *See—*
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- Everett Industries Incorporated: *See—*
Everett, Charles T., 3,656,261.
- Everett, James L., III. Dynamically matched set of golf clubs. 3,698,239, 10-17-72, Cl. 73-65.000.
- Everett, Larry H.; and Judy, Jack H., to International Business Machines Corporation. Method and apparatus for reading superimposed magnetic recordings. 3,668,671, 6-6-72, Cl. 340-174.10m.
- Everett, Peter G., to Zenith Radio Corporation. Solid-state, acoustic-wave amplifiers. 3,686,579, 8-22-72, Cl. 330-5.500.
- Everett, Rollo J.: *See—*
Meyer, Gilbert R.; and Everett, Rollo J., 3,674,555.
- Everett, Samuel R.; Shear, Wayne G.; and Ardila, Jorge E., to Bendix Corporation, The. Digital function generator for collision avoidance system. 3,636,336, 1-18-72, Cl. 235-197.
- Everett, Thomas David, to Ampex Corporation. Cassette tape assembly. 3,695,553, 10-3-72, Cl. 242-199.000.
- Everett, Wilhelm Sydow, to American Air Filter Company, Inc. Hydrodynamic surge absorbing apparatus. 3,669,150, 6-13-72, Cl. 138-26.000.
- Everflex Products, Inc.: *See—*
Morin, Louis F., 3,675,951.
- Everhart, John; and Felder, John Lawson, to Thiokol Chemical Corporation. Process for fast-fire ceramic tile using nepheline syenite and clay. 3,651,184, 3-21-72, Cl. 264-56.
- Everitt, Allen D. Hat trim. 3,686,849, 8-29-72, Cl. 57-152.000.
- Everitt, Kenneth John, 1/2 to White, Donald Patrick. Alarm device. 3,659,289, 4-25-72, Cl. 340-416.
- Everingham, Bruce A.; and Novick, Alvina M. Trailer hitch. 3,633,939, 1-11-72, Cl. 280-406.
- Everpure, Inc.: *See—*
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- Everroad, Herbert L. Air filter cleaning method. 3,688,780, 9-5-72, Cl. 134-21.000.
- Evers, Hubertus N. C. Ribbon weaving machine. 3,693,669, 9-26-72, Cl. 139-136.000.
- Evers, James C.: *See—*
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- Evers, Theodore H.; and Pritchard, Eric K., to United States of America, Navy. Radiation tolerant relay control system. 3,652,900, 3-28-72, Cl. 317-148.
- Evers, William J.: *See—*
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- Evers, William John: *See—*
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- Evers, William John, to International Flavors & Fragrances Inc. Novel sulfur-containing compounds and compositions and processes therefor. 3,666,495, 5-30-72, Cl. 99-140.
- Evers, William John. Apparatus for producing cyanogen chloride using a flooded reaction. 3,681,034, 8-1-72, Cl. 23-283.000.
- Evers, William L.; and Champ, Antony E., to Celanese Corporation. Stabilized polyamides containing soluble copper compounds and halogenous compounds. 3,658,705, 4-25-72, Cl. 260-45.75.
- Evershed & Vignoles Limited: *See—*
Phillips, John Arnaud; and Cowlin, John William, 3,689,937.
- Eversheim, Paul: *See—*
Teubler, Adolf; and Eversheim, Paul, 3,672,878.
- Eversman Mfg. Company, The: *See—*
Shader, Benjamin A., 3,654,998.
- Eversole, William C.: *See—*
Heaton, James W.; Eversole, William C.; and Friedline, Ernest J., 3,690,783.
- Eversole, William C.; and Heaton, James W., to Kennametal Inc. Quill for machine tools. 3,678,632, 7-25-72, Cl. 51-168.000.
- Everson, Charles W., to Merck & Co., Inc. Method of making sour dough bread. 3,681,083, 8-1-72, Cl. 99-90.00s.
- Everson, Kirke B., Jr.; and Eisen, Stefan F. Aircraft hanging support. 3,671,013, 6-20-72, Cl. 254-8.
- Eversull, Richard F. Anti-theft detector and alarm systems for vehicles. 3,659,265, 4-25-72, Cl. 340-65.
- Eversull, Richard F. Motor vehicle warm-up and battery charger system. 3,673,379, 6-27-72, Cl. 219-202.000.
- Everton, Dale: *See—*
Sacks, Ivor Selwyn; and Everton, Dale, 3,635,076.
- Evertz, Egon: *See—*
Amelung, Ernst; Belz, Edgar; and Evertz, Egon, 3,681,811.
- Every, Peter, to Kelsey-Hayes Company. Skid control valve assembly. 3,664,714, 5-23-72, Cl. 303-21.
- Evesque, Roger A., to Seaquist Valve Company; division of Pittway Corporation. Aerosol valve with filling means. 3,674,185, 7-4-72, Cl. 222-402.160.
- Evey, Gaylord H.; and Carson, John B., to Richland Glass Company, Inc. Method of sealing glass to metal. 3,632,325, 1-4-72, Cl. 65-56.
- EVG Entwicklungs- und Verwertungsgesellschaft m.b.H.: *See—*
Gott, Hans; Ritter, Klaus; and Ritter, Josef, 3,692,970.
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- Evgrafov, Boris Ivanovich; Kupeev, Jury Alexandrovich; and Turok, Galina Iosifovna, to Nauchno-issledovatel'sky i eksperimentalny institut Avromobilnogo elektrooborudovaniya i avtopriboro. Rectifier for an electric generator. 3,684,944, 8-15-72, Cl. 321-8.00.
- Evinrude, Ralph S., to Outboard Marine Corporation. Convertible golf car. 3,671,071, 6-20-72, Cl. 296-69.000.
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Feldman, Stephen; and Graves, Willard, 3,683,343.
- Evon Industries, Inc.: *See—*
Miller, Peter H., 3,638,370.
- Evon, Louis J. Machine tool grinding fixture. 3,653,163, 4-4-72, Cl. 51-218.
- Evrard, Jean-Claude: *See—*
Gohe, Raymond; Randoing, Jean Martial; Gohe, Max; and Evrard, Jean-Claude, 3,703,631.
- Evtcev, Dmitry Petrovich: *See—*
Rutes, Viktor Savelievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballard, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evtcev, Dmitry Petrovich; Manokhin, Anatoly Ivanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosochenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.
- Ezlin, Volf Nakhimovich: *See—*
Gilev, Vitaly Konstantinovich; Ezlin, Volf Nakhimovich; Idayatov, Tofik Kudrat Ogly; Proshian, Nea Eachievna; Sarkisov, Rafael Tevosovich; and Stepanian, Ernst Arakelovich, 3,651,774.
Gilev, Vitaly Konstantinovich; Ezlin, Volf Nakhimovich; Kamalov, Gennady Nikolacovich; Sarkisov, Rafael Tevosovich; Stepanian, Ernst Arakelovich; and Shakhmaliev, Rustam Makhmud Ogly, 3,656,381.
- Ewald, Jerome T.: *See—*
Bach, Lloyd G.; Ewald, Jerome T.; and Fulmer, Keith H., 3,688,498.
- Ewald, Jerome T.; Bach, Lloyd G.; and Lewis, Richard L., to Bendix Corporation. Charging valve. 3,692,039, 9-19-72, Cl. 137-118.000.
- Ewald, John D.: *See—*
Alley, Raymond L.; Hartman, George F., Jr.; and Ewald, John D., 3,668,999.
- Ewald, Ronald F.; and Platt, Norman E., to Seaquist Valve Company. Valve button with aspirator passageway. 3,648,932, 3-14-72, Cl. 239-337.
- Ewald, Ronald F., to Seaquist Valve Corporation. Aerosol valve. 3,658,215, 4-25-72, Cl. 222-402.18.
- Ewald, Ronald F. Tilt valve. 3,658,294, 4-25-72, Cl. 251-354.
- Ewald, Ronald F. Self-aligning aerosol overcap and button. 3,674,184, 7-4-72, Cl. 222-402.130.
- Ewald, Ronald F., to Seaquist Valve Company; division of Pittway Corporation. Co-dispensing valve. 3,674,186, 7-4-72, Cl. 222-402.210.
- Ewald, Ronald F., to Seaquist Valve Company, division of Pittway Corporation. Co-dispensing valve. 3,690,515, 9-12-72, Cl. 222-136.000.
- Ewald, Ronald F. Aerosol container. 3,702,669, 11-14-72, Cl. 222-402.160.
- Ewald, William P., to Eastman Kodak Company. Flash device for cinematographic camera. 3,651,745, 3-28-72, Cl. 95-11.5.
- Ewald, William P.; Nerwin, Hubert; and Harvey, Donald M. Assembly and pack for self-processing film units. 3,672,274, 6-27-72, Cl. 95-13.000.
- Ewald, William P., to Eastman Kodak Company. Photographic film pack. 3,682,065, 8-8-72, Cl. 95-31.0fm.
- Eward, Jerome T., to Bendix Corporation, The. Telescoping piston means for hydraulic brake booster. 3,707,112, 12-26-72, Cl. 91-376.000.
- Ewart, John M.: *See—*
Brooks, Robert E.; Ewart, John M.; and Randall, James E., 3,631,687.

- Ewbank, Walter J.; Harden, Darrel G.; and Bauer, Walter C. Gas-steam engine. 3,657,879, 4-25-72, Cl. 60-39.05.
- Ewe, Gerhard; Dennerlein, Hugo; Schmidt, Heinrich; Hirschmeier, Horst; and Fechter, Willi, to Gebr. Fleischmann. Track assembly for toy and model railroads. 3,650,468, 3-21-72, Cl. 238-10.
- Ewell, David G., to Kontur Kontakt Lens Company, Inc. Hydrophilic contact lens material. 3,647,736, 3-7-72, Cl. 260-29.6.
- Ewell, Edgar C., to Modern Mill, Inc. Speed regulating device for material discharge apparatus. 3,707,246, 12-26-72, Cl. 222-134.000.
- Ewen, Harold I.: *See—*
Haroules, George G.; Brown, Wilfred E., III; Ewen, Harold I.; Lilley, Arthur E.; and Kodis, Ralph D., 3,665,467.
- Ewers, Ronald L., to Game Time, Inc. Rubber spring supported playground apparatus. 3,675,919, 7-11-72, Cl. 272-54.000.
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- Ewing, Bernard E. Herbicide applicator. 3,651,600, 3-28-72, Cl. 47-1.5.
- Ewing, Channing L., to United States of America, Navy. Vertebral fracture prevention system. 3,698,670, 10-17-72, Cl. 244-122.0ag.
- Ewing, Dean E. Digital splint. 3,692,022, 9-19-72, Cl. 129-87.00a.
- Ewing, Joan R.: *See—*
Amidon, Alan B.; Sankus, Joseph G.; Petruzzella, Nicholas L.; and Ewing, Joan R., 3,664,834.
Lester, Corrin; and Ewing, Joan R., 3,692,404.
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Brown, George J.; and Ewing, Robert J., 3,691,017.
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- Ex-Cell-O Corporation: *See—*
Helmrich, William F., 3,684,186.
Milek, Donald L., 3,660,746.
- Exact Electronics, Inc.: *See—*
Hunter, Lloyd Wayne, 3,676,698.
- Exact Weight Scale Corporation: *See—*
Koppe, Robert G., 3,675,759.
- Exatest Messtechnik G.m.b.H.: *See—*
Voigtlaender-Tetzner, Gerhard, 3,658,428.
Wunsch, Bruno, 3,706,888.
- Excel Corporation: *See—*
Deisenroth, Robert J., 3,655,854.
Furlette, James L.; and Stadler, Donald A., 3,642,121.
- Excel Electrical Supply Co.: *See—*
Harms, Harry Keith, 3,705,280.
- Excel, Incorporated: *See—*
Dian, Walter, 3,694,051.
Golden, Gerald; and Wrobel, Charles V., 3,657,945.
- Excel Mfg., Ltd.: *See—*
Malmgren, John Stanley, 3,701,276.
- Excelmatic, Inc.: *See—*
Kraus, Charles E., 3,640,145.
- Excentra Gesellschaft mit beschränkter Haftung: *See—*
Biernath, Emil; and Burkard, Hans, 3,670,629.
- Exitaire Company, The: *See—*
Sheppard, Albert S., 3,643,584.
- Exner, Emil A.: *See—*
Dennewitz, Rolf Dieter; Exner, Emil A.; and Zierau, Henning, 3,662,213.
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Burk, George A.; and Exner, Jurgen H., 3,689,660.
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Cooper, Alfred, 3,640,915.
- Expandet S.A.: *See—*
Mallet, Emile, 3,698,279.
- Expando Products Company: *See—*
Triplett, Lee, 3,651,651.
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Van Kreuningen, Rudolf, 3,669,388.
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Nistler, Gordon A.; and Hannagan, Harold W., 3,658,006.
Posson, Philip Lynn; Moore, Donald Baker; and Nicholson, Dallas Earl, 3,646,888.
Wells, John L., 3,657,958.
- Explosives Corporation of America: *See—*
Friant, James E.; Pawlak, Daniel E.; and Goode, John W., 3,687,076.
- Export Leaf Tobacco Company: *See—*
Barnett, Joseph; and Smith, John D., 3,662,990.
Barnett, Joseph; and Smith, John D., 3,695,670.
- Export Tool & Welding Co., Limited: *See—*
Halling, Roy Walker Lee; and Kriisa, Paul, 3,672,317.
- Extel Microsystems, Inc.: *See—*
Beispiel, Robert, 3,644,040.
Beispiel, Robert, 3,650,623.
Frech, Roger A., 3,661,457.
- Extel Corporation: *See—*
Zenner, Walter J.; and Kranz, Raymond E., 3,670,861.
- Exton, John M.; as trustee of the Trust Exton Development Company: *See—*
Stevens, Charles Edward, 3,676,962.
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Stevens, Charles Edward, 3,702,496.
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Hassinger, Robert J., 3,677,244.
Holter, John W., 3,683,929.
Nerz, Joseph E., 3,677,243.
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McCarty, Ralph W., 3,634,973.
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Landen, William James, 3,682,343.
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Geisel, Robert C., 3,653,776.
Landen, William James, 3,659,735.
Landen, William James, 3,667,636.
Landen, William James, 3,680,745.
Landen, William James, 3,702,668.
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Aylott, Eric Victor, 3,703,180.
- Eymard, Pierre L.: *See—*
Meunier, Henry E.; and Eymard, Pierre L., 3,649,630.
Meunier, Henry E.; and Eymard, Pierre L., 3,659,013.
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Early, James R.; Eyring, William M.; McGrath, Donald W.; and Takenaka, Toshio, 3,685,139.
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Henningsen, Erik, 3,633,234.
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Shomura, Takashi; Ezaki, Norio; Tsuruoka, Takashi; Niwa, Tomizo; Akita, Eiichi; and Niida, Taro, 3,661,892.
Shomura, Takashi; Ezaki, Norio; Tsuruoka, Takashi; Niwa, Tomizo; Akita, Eiichi; and Niida, Taro, 3,697,648.
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Ito, Saburo; and Ezaki, Shingo, 3,634,721.
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Schubert, Dale W.; and Ezekiel, Frederick D., 3,701,499.
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Tsvetkov, Krum Kostov; Ezekiev, Ezekiya Gueorguiev; Nikolov, Petko Petrov; and Otsetov, Vassil Christov, 3,674,991.
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Destefan, John F.; Ezolt, James J.; and Benchoff, James Martin, 3,641,764.
- Ezy-Way Manufacturing & Sales Co.: See—
Chaffin, Chester C., 3,672,634.
- F. J. L. Corporation: See—
Uitz, Mark O., 3,637,084.
- F&M Taco Shell Company: See—
Brown, Robert E., 3,680,474.
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Tenner, Oskar, 3,705,616.
- Fa, Hans Hilgemann & Co. G.m.b.H.: See—
Hilgemann, Hans; and Gettmann, Hermann, 3,666,004.
- Fa, Otto Thamer, Textil-u. Kunststoff GmbH & Co., KG: See—
Mohr, Wilhelm; and Kruger, Heinz, 3,663,968.
- Faarup, Peter: See—
Borrevang, Poul; and Faarup, Peter, 3,673,224.
- Fab Fibre Company: See—
Lechene, Leo; and Campbell, John, 3,643,282.
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- Fabbrica Italiana Magneti Marelli S.p.A.: See—
Basso, Eugenio; Ravaschio, Guglielmo; and Frangilli, Vittorio, 3,701,000.
- Zoppi, Bruno, 3,667,815.
- Zoppi, Bruno, 3,679,333.
- Fabbro, Dario: See—
Lo Monaco, Sergio; Guerrato, Alfredo; Fabbro, Dario; and Donadello, Graziello, 3,671,493.
- Fabbro, Lawrence L.: See—
McKnight, John R.; Ballay, Joseph M.; Fabbro, Lawrence L.; and Alexander, James M., Jr., 3,633,326.
- Fabbro, Leo A.: See—
Drake, Harry N., Jr.; Fabbro, Leo A.; and Fanucci, Ronald E., 3,635,677.
- Fabens, Andrew Lawrie, Jr., to Truline Casting Company. Apparatus for continuous casting of hollow bar. 3,678,990, 7-25-72, Cl. 164-274.000.
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Edl, Wolfgang; Faber, Gebhard; Koehler, Michael; Winter, Heinz; and Meyer, Heinz, 3,645,908.
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Klanderman, Bruce H.; and Faber, Jan W. H., 3,678,072.
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Cawley, John Duval; and Faber, Jan Willem Hendrik, 3,705,136.
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- Fabi, Franco: See—
Guadagnini, Giuseppe; and Fabi, Franco, 3,691,151.
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Lange, Guenter; and Fabian, Wolfgang, 3,658,885.
- Sevenich, Theodor Josef; Fabian, Wolfgang; and Kuhn, Klaus, 3,700,122.
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Gerke, Peter; Baur, Hans; Rutkowski, Karl; Binder, Hans-Eugen; Palsa, Helmut; and Fabianke, Hartmut, 3,668,319.
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- Fabiano, Lucian Philip, Jr.; Grandmaison, John Paul; Greason, William Wallace, III; and King, Ted R., Jr., to Bell Telephone Laboratories, Incorporated. Switching network control without network map. 3,647,980, 3-7-72, Cl. 179-18.
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Fabick, John, 3,659,548.
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Ertingshausen, Gehard; and Fabiny, Diane L., 3,682,586.
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Cachelin, Gerard, 3,675,414.
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- Fabre, Pierre, to Tunzini-Sames. Apparatus for covering an object with a layer of powder. 3,659,151, 4-25-72, Cl. 317-3.
- Fabre, Pierre; Giroud-Garampon Robert; Gondrand, Michel; and Raymond, Fernand, to Tunzini Ameliorair. Method for electrostatic coating of objects with a powder coating material. 3,695,909, 10-3-72, Cl. 117-17.500.
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Heirbaut, Edmond Marie; Fabre, Raymond Francis Andrian; Camps, Josephus Henricus Karel; and Mees, Michael Marcel, 3,646,575.
- Fabreeka Products Company: See—
Palfreyman, Donald H., 3,663,333.
- Fabri-Kal Corporation: See—
Schrepper, Gerad A., 3,653,575.
- Fabri-Tek Instruments, Inc.: See—
Schumann, Robert W., 3,662,373.
- Fabric Research Laboratories: See—
Constantine, Thomas T., 3,655,474.
- Fabric Tire Hose Company: See—
Boguslawski, Jan J., 3,640,656.
- Fabrica d'Armi P. Beretta S.p.A.: See—
Beretta, Pier Carlo, 3,675,534.
- Fabrica de Radiatoare si Cabluri Brasov: See—
Round, Byron J.; and Stalph, Gunter J., 3,631,587.
- Fabrica de Utilaje Si Piese de Schimb "Metalotehnic": See—
Kolosvari, Zoltan; and Gal, Endre, 3,705,058.
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Coleman, Clarence B., 3,704,722.
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- Fabrick van Bouwmateriaal "Loevestein" N.V.: See—
Wielinga, Pieter Simon, 3,652,311.
- Fabrique d'Horlogerie Chas. Tissot & Fils S.A.: See—
Cachelin, Gerard; and Jeannotat, Etienne, 3,659,383.
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Schneider, Jean-Claude, 3,693,345.
- Fabrique d'Horlogerie Chs Tissot & Fils S.A.: See—
Doem, Peter A., 3,665,698.
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Schneider, Jean-Claude, 3,667,211.
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Schneider, Jean-Claude, 3,691,758.
- Fabrique Nationale d'Armes de Guerre, Societe Anonyme: See—
Bruelemans, Karel Bernard Marie, 3,633,385.
- Fabrique Nationale d'Armes de Guerre, Societe Anonyme: See—
Bruelemans, Karel Bernard Marie, 3,633,386.
- Bruelemans, Karel Bernard Marie, 3,668,895.
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Fehr, Bernard H. P.; and Gascon, Joseph, 3,649,168.
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- Faccou, Armand L., to FMC Corporation. Pipe swivel joint for corrosive fluids. 3,679,235, 7-25-72, Cl. 285-14.000.
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- Facha, Joseph V.: See—
Bernath, Louis; and Facha, Joseph V., 3,671,394.
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Thien, Gerhard; and Fachbach, Heinz, 3,693,602.
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de Vaulchier Du Deschaux, Louis; de Fouchier, Alain; de Vaulcelles, Emmanuel; and Facquet, Louis, 3,674,655.
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Chalk, Alan J.; and Factor, Arnold, 3,679,629.
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Champagne, Carol Z., 3,684,023.
- Livingston, William L., 3,631,870.
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- Livingston, William L., 3,643,912.
- Livingston, William L., 3,645,337.
- Livingston, William L., 3,645,338.
- Livingston, William L., 3,647,001.
- Livingston, William L.; and Time, Sebastian David, 3,651,869.
- Livingston, William L., 3,662,835.
- Livingston, William L., 3,666,015.
- Livingston, William L., 3,666,707.
- Livingston, William L., 3,669,191.
- Livingston, William L., 3,675,854.
- Livingston, William L., 3,682,251.
- Livingston, William L., 3,684,025.
- Livingston, William L., 3,685,588.
- Livingston, William L., 3,698,481.
- Livingston, William L., 3,698,482.
- Livingston, William L.; and Munson, Carl Marshall, 3,702,158.
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- Zenker, Karol R., 3,705,691.
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Kraus, Helmut; and Fadler, Kurt, 3,669,233.
- Fadner, Thomas A.; and Kraske, Karl V., to Ethyl Corporation. Coating of webs by freeze-drying and products therefrom. 3,702,779, 11-14-72, Cl. 117-102.00r.
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Derringer, Ray; and Faehling, Francis L., 3,654,913.
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Mosso, Paul R.; and Faelten, Carl R., 3,655,588.
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- Faessel, Jurgen: See—
Wieland, Theodor; Konz, Wilhelm; Faessel, Jurgen; and Lewalter, Jurgen, 3,705,887.
- FA.G. Siegle & Co. GmbH: See—
Mau, Kurt; and Seitz, August, 3,682,672.
- Fagan, Castle Hugh: See—
Cressap, Wesley Louis; Fagan, Castle Hugh; and Luftin, Martin Harrison, 3,652,185.
- Fagan, Edmund I.: See—
Keeler, Jack D.; and Fagan, Edmund I., 3,635,159.
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Susingham, George J.; and Fagan, Franklin G., Jr., 3,665,178.
- Fagan, James R., to North American Rockwell Corporation. Film viewer. 3,699,327, 10-17-72, Cl. 240-41.300.
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Kobler, Richard; and Fagan, William F., 3,698,723.
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- Fagen, John. Compressor for cam follower spring. 3,676,913, 7-18-72, Cl. 29-217.000.
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- Fagersta Bruks AB: See—
Hallstrom, Ingemar Gustaf Terje; Jarleborg, Martin Holger; and Tarnblom, Stig-Goran Harry, 3,674,570.
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Gustafson, Manfred Wallace; and Sandrud, Torsten, 3,673,657.
- Jarleborg, Martin Holger, 3,661,656.
- Loqvist, Kaj R., 3,673,677.
- Loqvist, Kaj-Ragnar, 3,677,060.
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Klein, Thomas; and Faggin, Federico, 3,673,471.
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- Fahey, Darryl R., to Phillips Petroleum Company. Ortho-chlorination of azobenzene. 3,676,421, 7-11-72, Cl. 26-205.000.
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- Fahey, Thomas M.; and Mentzell, John C., to Westinghouse Electric Corporation. High-ratio drive mechanism. 3,668,946, 6-13-72, Cl. 74-640.000.
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- Fahlenberg, Paul, to Compur-Werk Gesellschaft mit beschränkter Haftung & Co. Photographic camera. 3,695,158, 10-3-72, Cl. 95-10.0cc.
- Fahlin, James R.; and Hagfors, Gerald D., to Graco Inc. Sanitary spray gun. 3,670,967, 6-20-72, Cl. 239-412.000.
- Fahlstrom, Runc: See—
Westberg, Bengt Karl-Axel; Odman, Tor Axel; and Fahlstrom, Runc, 3,699,878.
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Swanson, Elston H.; Fahnestock, James D.; and Wicks, William H., 3,689,849.
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Sauerbruch, Ernst; Scherrer, Donat; and Vogt, Willy, 3,674,400.
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Bronstert, Klaus; Ladenberger, Volker; and Fahrbach, Gerhard, 3,673,281.
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Schweizer, Rolf, 3,661,074.
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Gohl, Helmut, 3,643,356.
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Glasgow, Horack K., 3,636,951.
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Delli-Gatti, John L., 3,698,768.
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Henderson, Robert M.; Zechlin, Richard; and Miller, Lowell E., 3,665,169.
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Blome, Eugene R., 3,698,928.
Burns, Joseph, 3,663,820.
Burns, Joseph, 3,681,645.
Dumesnil, Maurice E.; Hewitt, Robert R.; and Bozarth, Joseph L., 3,650,778.
Frohman-Bentchkowsky, Dov, 3,641,512.
Hoffmann, Kurt, 3,636,376.
Hood, Robert B., 3,633,095.
Janis, Irwin R., 3,662,382.
- Klein, Thomas; and Faggin, Federico, 3,673,471.
- Kohler, Willem A.; and Flood, Joseph A., 3,658,032.
- Learn, Arthur J.; Shepherd, William H.; and Delliccia, Conrad J., 3,702,427.
- Lenzlinger, Martin, 3,648,127.
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- Peltzer, Douglas L., 3,648,125.
- Rice, Rex; and Smith, William R., 3,643,225.
- Sahakian, Vahak K., 3,664,499.
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- Schroeder, Jon M., 3,639,811.
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- Yu, Albert Y. C.; Gopen, Howard J.; and Waits, Robert K., 3,702,290.
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Berry, Thomas G., 3,696,568.
Forman, David; and Scandalis, Angelo C., 3,633,852.
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Baniadam, Mahmood; and Morando, Jorge A., 3,706,318.
Boro, William B., 3,696,694.
Forman, David, 3,645,480.
Glantz, Earl; and McComas, Jean W., 3,669,385.
Hoyer, Sigurd, 3,699,576.
Jordan, David B., 3,701,288.
Klatt, Robert Walter, 3,651,514.
Marrojo, Ralph G.; and Tanaka, Aki, 3,652,050.
Summers, George D., 3,651,512.
- Fairchild, Louis F.: See—
Schrimper, Vernon L.; and Fairchild, Louis F., 3,636,832.
- Fairey, Lyle W.: See—
Van Der Linde, John R.; and Fairey, Lyle W., 3,694,715.
- Fairfield County Marine Inc.: See—
Appelberg, Gustaf T., 3,703,804.
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Blough, Ronald S.; and Curry, Norval, 3,677,229.
Blough, Ronald S., 3,677,231.
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Knobloch, John C.; and Shepard, Ray M., 3,686,978.
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Igneri, Anthony V.; Milack, Joseph, Jr.; and Longo, John, 3,677,205.
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Campbell, Jay E., 3,655,493.
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Einerson, Amos M.; Schauer, Frank N.; and Abelle, Thomas G., 3,684,400.
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Emory, John M. G., Jr.; and Faitani, Joseph J., 3,643,430.
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Hougen, Leif Reidar; and Stensholt, Erling Olav, 3,684,481.
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Newman, Daniel J.; and Falck-Muus, Rolf, 3,690,820.
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Van Weert, Gezinus, 3,642,441.
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Pappas, Michael, 3,670,689.
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Wigstol, Eivind, 3,664,815.
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Ercoli, Alberto; Gardi, Rinaldo; Vitali, Romano; and Falconi, Giovanni, 3,649,620.
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Queval, Pierre J.; and Falconnet, Bernard L. M., 3,654,310.
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Grand, Paul S.; Falivene, Pasquale Joseph; and Furgal, Henry P., 3,698,095.
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Richardson, William S., 3,682,015.
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Norton, Charles J.; and Falk, David O., 3,670,820.
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Mayes, Nathan; and Falk, Robert A., 3,679,755.
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Heddam, Paul Lunde, 3,631,842.
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Steinhofer, Adolf; Doerfel, Helmut; Falkenstein, Georg; and Jeserich, Wolfgang-Dieter, 3,700,658.
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Fall, Herbert S.; York William D.; and Huff, Larry D. (said York and said Huff assors. to said), 3,679,275.
Fall, Maxwell S.; and Lambert, Ronald D., 3,687,505.
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Smith, Vern; Fallon, Merton R.; and Johnston, Mack S., 3,698,417.
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Egbert, Harry F.; and Falls, James R., Jr., 3,662,287.
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Dussel, Paul E., 3,692,060.
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Hoppstock, Frederic H.; Falvo, Louis A.; and Frech, Kenneth J., 3,676,518.
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Samour, Carlos M.; and Falxa, Martin L., 3,671,502.
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Hale, Otis L.; and Rakes, Charles D., 3,649,770.
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Baker, Don R.; Fancher, Llewellyn W.; and McClellan, Malcolm B., 3,644,411.
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Hart, Stephen N., 3,693,783.
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Beck, Fred R.; Fanella, Robert J.; and Gioia, Norman F., 3,640,483.
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Sinizer, David I.; Fanelle, Louis H.; Toy, Albert; and Atteridge, David G., 3,638,298.
- Fanelli, Louis H.: See—
Sinizer, David I.; Toy, Albert; Atteridge, David G.; and Fanelli, Louis H., 3,669,364.
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Colaod, Gerard; and Fanene, Bernard, 3,699,396.
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Berrer, Dagmar; and Fankhauser, Ernst, 3,634,062.
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Schlein, Seymour M., 3,683,843.
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Deli, Jack M.; Kowaczky, Frank J.; Fanslow, Ronald J.; and Pisani, Marino J., 3,645,350.
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Bartoszewicz, Joseph G., 3,693,224.
- Glaski, Frederick A.; Holzl, Robert A.; and Kaplan, Richard B., 3,640,689.
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Holzi, Robert A.; Glaski, Frederick A.; and Humphrey, James R., 3,637,374.
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Jones, Duane A.; Fanta, George F.; and Burr, Robert C., 3,669,915.
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Gerring, Paul K., 3,686,694.
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Stollman, Richard A.; and Cedrone, Vincent N., 3,643,928.
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Wiggen, Lyle A., 3,638,350.
- Fanti, Roy: See—
Basche, Malcolm; Fanti, Roy; Galasso, Francis S.; Kuntz, Urban E.; and Schile, Richard D., 3,679,475.
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Lauster, Frederick L.; and Fantle, Sheldon W., 3,651,207.
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Berglund, Per Henrik Sixten; Fanto-Kurtos, Peter Robert; and Mattson, Nils Albert Uno, 3,701,621.
- Fanton, Ralph E.: See—

- Gach, Francis X.; Fanton, Ralph E.; and Hazzard, Noel D., 3,699,905.
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Drake, Harry N., Jr.; Fabbro, Leo A.; and Fanucci, Ronald E., 3,635,677.
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Callieri, Michele; Faraci, Giorgio; and Paracchini, Mario, 3,672,147.
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Sanders, James F.; Baumgartner, Ronald R.; and Farago, Laszlo D., 3,669,706.
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Hutzler, George J.; and Farah, Basil S., 3,655,627.
- Farah Manufacturing Company, Inc.: See—
Mc Keen, Leighton R., 3,688,715.
- McKeen, Leighton R., 3,688,713.
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Bernard, Jean Andre; and Faraoni, Adamo Renato, 3,691,614.
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Alles, Hans-Ulrich; and Klauke, Erich, 3,632,820.
- Alles, Hans-Ulrich; Klauke, Erich; Kuhle, Engelbert; Eue, Ludwig; and Hack, Helmut, 3,639,668.
- Andres, Karlheinz; Brochhagen, Franz Karl; Wunderer, Anton; and Fulber, Josef, 3,645,927.
- Arlt, Dieter, 3,639,442.
- Arlt, Dieter, 3,639,479.
- Arlt, Dieter; and Handschuh, Volkmar, 3,641,094.
- Arlt, Dieter; Hagemann, Hermann; Hoffmann, Peter; and Ugi, Ivar, 3,661,965.
- Arlt, Dieter; and Holtschmidt, Hans, 3,673,254.
- Arlt, Dieter, 3,674,829.
- Balle, Gerhard; and Kolb, Gunter, 3,641,119.
- Bartl, Herbert; and Wiegler, Frank, 3,642,666.
- Bauer, Kurt; Wittmann, Gunther; and Mussgay, Manfred, 3,636,196.
- Baumgartner, Siegfried; Kindler, Hubert; Lidl, Rolf; and Boden, Heinrich, 3,674,398.
- Beck, Gunther; and Holtschmidt, Hans, 3,637,694.
- Becker, Gustav; Griepentrog, Heinz; Klebert, Wolfgang; and Reich, Friedrich, 3,655,437.
- Beecken, Hermann, 3,644,090.
- Bentz, Francis; Lesch, Dieter; and Nischk, Gunther, 3,634,519.
- Bien, Hans-Samuel; and Klauke, Erich, 3,669,951.
- Bien, Hans-Samuel; Hohmann, Walter; Vollmann, Heinrich; and Heinrich, Leister, 3,704,252.
- Bockmann, August; Essig, Karl-August; Feltgen, Karlheinz; Groschel, Herbert; and Rudolph, Hans, 3,642,713.
- Bockmann, Walter, 3,704,215.
- Bode, Klaus-Dieter; and Schellhammer, Carl-Wolfgang, 3,636,004.
- Bode, Klaus-Dieter; and Schellhammer, Carl-Wolfgang, 3,641,023.
- Boehmke, Gunther, 3,674,835.
- Boehmke, Gunther; Hees, Walter; and Quaedvlieg, Mathieu, 3,682,584.
- Boshagen, Horst, 3,692,795.
- Bossert, Friedrich; and Vater, Wulf, 3,644,627.
- Bossert, Friedrich; and Vater, Wulf, 3,647,807.
- Bossert, Friedrich; and Vater, Wulf, 3,691,177.
- Bossert, Friedrich; and Vater Wulf, 3,696,112.
- Brack, Alfred, 3,673,182.
- Brandt, Hans-Walter; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; Schleppinghoff, Bernhard; and Schnuchel, Gunther, 3,655,806.
- Breer, Karl; and Lauterbach, Udo, 3,638,915.
- Breer, Karl Wilhelm; and Weinbrenner, Erwin, 3,705,821.
- Buchel, Karl Heinz; Regel, Erik; and Plempel, Manfred, 3,655,899.
- Buchel, Karl Heinz; Regel, Erik; and Plempel, Manfred, 3,655,900.
- Buchel, Karl Heinz; Regel, Erik; and Plempel, Manfred, 3,657,442.
- Buchel, Karl Heinz; Regel, Erik; and Plempel, Manfred, 3,657,445.
- Buchel, Karl Heinz; Regel, Erik; and Plempel, Manfred, 3,658,956.
- Buchel, Karl Heinz; Grewe, Ferdinand; Frohberger, Paul-Ernst; and Kaspers, Helmut, 3,660,410.
- Buchel, Karl Heinz; Hammann, Ingeborg; Unterstenhofer, Gunter; and Grewe, Ferdinand, 3,660,462.
- Buchel, Karl Heinz; and Plempel, Manfred, 3,660,576.
- Buchel, Karl Heinz; Regel, Erik; Grewe, Ferdinand; Scheinpflug, Hans; and Kaspers, Helmut, 3,665,076.
- Buchel, Karl Heinz; Grewe, Ferdinand; and Kaspers, Helmut, 3,682,950.
- Buchel, Karl Heinz; Draber, Wilfried; and Hammann, Ingeborg, 3,689,664.
- Buchel, Karl-Heinz; Draber, Wilfried; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,641,098.
- Buchel, Karl-Heinz; Regel, Erik; and Plempel, Manfred, 3,660,577.
- Buchel, Karl-Heinz; Regel, Erik; Grewe, Ferdinand; Scheinpflug, Hans; and Kaspers, Helmut, 3,665,077.
- Buchel, Karl-Heinz; Regel, Erik; Grewe, Ferdinand; Scheinpflug, Hans; and Kaspers, Helmut, 3,665,078.
- Buchel, Karl-Heinz; Regel, Erik; Grewe, Ferdinand; Scheinpflug, Hans; and Kaspers, Helmut, 3,665,079.
- Buchel, Karl-Heinz; Regel, Erik; Grewe, Ferdinand; Scheinpflug, Hans; and Kaspers, Helmut, 3,666,862.
- Buchel, Karl-Heinz; Regel, Erik; Grewe, Ferdinand; Scheinpflug, Hans; and Raspers, Helmut, 3,691,192.
- Buchel, Karl-Heinz; Regel, Erik K.; and Plempel, Manfred, 3,705,172.
- Busing, Walter; and Gebauer, Wolfgang, 3,691,460.
- Collin, Reimer, 3,682,910.
- Collin, Reimer, 3,687,974.
- Collin, Reimer; and Frohberger, Paul-Ernst, 3,707,497.
- Corte, Herbert; and Meyer, Alfred, 3,637,535.
- Corte, Herbert; and Heller, Harold, 3,687,912.
- Dabritz, Erich; Schafer, Werner; Grewe, Ferdinand; and Scheinpflug, Hans, 3,641,043.
- Dabritz, Erich; and Mayer, Karl Heinrich, 3,654,295.
- Damsky, Walter; Joisten, Siegfried; and Sajben, Johannes Otto, 3,689,180.
- Darsow, Gerhard; Bottenbruch, Ludwig; and Schnell, Hermann, 3,634,354.
- Darsow, Gerhard, 3,647,751.
- Daum, Werner; Paulus, Wilfried; and Pauli, Otto, 3,645,715.
- Daum, Werner; and Scheinpflug, Hans, 3,659,018.
- Daum, Werner; Scheinpflug, Hans; Frohberger, Paul-Ernst; and Grewe, Ferdinand, 3,673,210.
- Dhein, Rolf; Meibner, Hans-Jurgen; and Schnell, Hermann, 3,660,330.
- Dickore, Karlfried; Wegler, Richard; and Hermann, Gunther, 3,686,201.
- Diehr, Hans Joachim; Merten, Rudolf; Uhlig, Konrad; Piechota, Helmut; and Weber, Christian, 3,634,345.
- Diehr, Hans Joachim; Merten, Rudolf; and Uhlig, Konrad, 3,644,228.
- Dieterich, Dieter; and Braden, Rudolf, 3,646,040.
- Dieterich, Dieter; and Braden, Rudolf, 3,646,046.
- Dorlars, Alfons; and Neuner, Otto, 3,666,758.
- Dorlars, Alfons, 3,697,596.
- Dorlars, Alfons, 3,697,597.
- Dorn, Ludwig; Heinze, Gerhard; and Podschus, Ernst, 3,642,659.
- Draber, Wilfried; Buchel, Karl Heinz; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,636,112.
- Draber, Wilfried; Buchel, Karl Heinz; and Plempel, Manfred, 3,647,816.
- Eimers, Erich; Deninger, Wolfgang; and Alt, Bernhard, 3,641,203.
- Eimers, Erich; Rudolph, Hans; and Kloker, Werner, 3,646,160.
- Eimers, Erich, 3,669,991.
- Eimers, Erich, 3,697,623.
- Eindeisen, Kurt; and Frohberger, Paul-Ernst, 3,686,410.
- Enders, Edgar; and Hullstrung, Dieter, 3,636,153.
- Enders, Edgar, 3,646,148.
- Enders, Edgar, 3,666,427.
- Engelhard, Helmut; Bentz, Francis; Giebler, Wolfgang; and Nischk, Gunther-Ernst, 3,634,545.
- Erfurth, Henning; and Mansmann, Manfred, 3,689,214.
- Esser, Heinz, 3,667,998.
- Feltgen, Karl-Heinz; and Espanion, Gunther, 3,698,610.
- Fest, Christa; and Hermann, Gunther, 3,636,105.
- Fest, Christa; and Hermann, Gunther, 3,657,454.
- Fest, Christa; Hammann, Ingeborg; and Behrenz, Wolfgang, 3,700,686.
- Findeisen, Kurt; Braden, Rudolf; and Holtschmidt, Hans, 3,682,916.
- Fischer, Peter, 3,691,184.

Fries, Ludwig; Mundil, Rudolf; and Wiechers, Herbert, 3,655,709.
 Frommer, Werner; and Otto Wagner, Wuppertal-Elberfeld, 3,660,239.
 Fuhr, Karl; Rudolph, Hans; Schnell, Hermann; and Patheiger, Manfred, 3,639,321.
 Fuhr, Karl; Vernalenken, Hugo; Heine, Hans-Georg; Rudolph, Hans; and Schnell, Hermann, 3,664,937.
 Gallus, Manfred; Lorenz, Gunter; and Nischk, Gunther, 3,637,594.
 Gehrke, Gunter; and Hederich, Volker, 3,642,425.
 Gieseke, Hans Alwin Erich; Nogaj, Alfred; Schiefer, Josef; and Rinkler, Heinrich, 3,665,613.
 Gilch, Heinrich; Darsow, Gerhard; Bottenbruch, Ludwig; Lorenz, Gunter; Kunzel, Hans Egon; Nischk, Gunther; and Schnell, Hermann, 3,642,882.
 Gilch, Heinrich; and Schnell, Hermann, 3,679,613.
 Gilch, Heinrich; Damsky, Walter; and Reinking, Klaus, 3,682,847.
 Gilch, Heinrich; Schneider, Kurt; and Schnell, Hermann, 3,702,313.
 Gilch, Heinz; and Schnell, Hermann, 3,686,266.
 Glabisch, Dietrich; Bartl, Herbert; and Meckbach, Heinrich, 3,657,174.
 Golitz, Hans Dietrich; Degener, Eberhart; Oertel, Gunter; Schmelzer, Hans-Georg; and Simmler, Walter, 3,657,303.
 Golitz, Hans Dietrich; and Simmler, Walter, 3,658,864.
 Golitz, Hans Dietrich; Merten, Rudolf; Noll, Walter; and Simmler, Walter, 3,663,586.
 Golitz, Hans Dietrich; and Simmler, Walter, 3,673,233.
 Golitz, Hans Dietrich; Degener, Eberhart; Oertel, Gunter; Schmelzer, Hans-Georg; and Simmler, Walter, 3,676,478.
 Gossens, Hubert; Kammermeier, Jürgen; and Klokner, Werner, 3,679,539.
 Gottschlich, Alois; and Leverenz, Klaus, 3,705,145.
 Grassel, Joachim; and Petersen, Otto, 3,650,631.
 Grigat, Ernst; Schultheis, Heinz; Bock, Eugen; and Dollhausen, Manfred, 3,658,623.
 Grogler, Gerhard; and Oertel, Gunter, 3,666,726.
 Grogler, Gerhard; and Oertel, Gunter, 3,691,112.
 Groll, Manfred; Bien, Hans-Samuel; and Neufang, Karl, 3,634,451.
 Gruber, Hermann; and Schmitz-Josten, 3,686,140.
 Grundmann, Ekkehard; and Schmidt-Kastner, Gunther, 3,682,776.
 Guhr, Karl; Vernalenken, Hugo; Heine, Hans-Georg; Rudolph, Hans; and Schnell, Hermann, 3,636,026.
 Gunther, Peter; and Oberkirch, Wolfgang, 3,634,340.
 Hagedorn, Ferdinand; Wedemeyer, Karlfried; Scherhag, Bernhard; and Hausweiler, Arnold, 3,686,194.
 Hagemann, Hermann, 3,679,743.
 Hagemann, Hermann, 3,682,909.
 Hagemann, Hermann; Müller, Erwin; and Fischer, Peter, 3,692,813.
 Hagemann, Hermann, 3,699,162.
 Harnisch, Horst; and Raue, Roderich, 3,637,734.
 Harnisch, Horst, 3,640,994.
 Hederich, Volker; and Gehrke, Gunter, 3,642,835.
 Heine, Hans-Georg; Fuhr, Karl; Rudolph, Hans; and Schnell, Hermann, 3,657,088.
 Heine, Heinz, 3,655,336.
 Heller, Karl-Heinz; Kreuder, Manfred; and Merz, Karl, 3,637,745.
 Hennig, Hans Joachim; and Fischer, Peter, 3,640,966.
 Hermann, Gunter; and Schmidt, Karl-Julius, 3,679,796.
 Hermann, Karl Heinz; and Schnell, Hermann, 3,635,913.
 Hermann, Karl-Heinz; Schneider, Joachim; Rudolph, Hans; and Nawrath, Gunter, 3,699,183.
 Hildebrand, Dietrich; and Neufang, Karl, 3,679,354.
 Hirane, Seiichi; Aya, Masahiro; and Kishino, Shigeo, 3,706,832.
 Hofer, Wolfgang; Schrader, Gerhard; and Hammann, Ingeborg, 3,660,540.
 Hoffman, Hellmut; Hammann, Ingeborg; and Behrenz, Wolfgang, 3,687,963.
 Hoffmann, Hellmut; and Scheinpflug, Hans, 3,641,224.
 Hoffmann, Hellmut; and Hammann, Ingeborg, 3,682,943.
 Hoffmann, Hellmut; Scheinpflug, Hans; Kume, Toyohiko; and Yasui, Kazuomi, 3,686,369.
 Hoffmann, Hellmut; Hammann, Ingeborg; and Homeyer, Bernhard, 3,700,687.
 Hohmann, Walter; and Bien, Hans-Samuel, 3,666,778.
 Hohmann, Walter; Wunderlich, Klaus; and Bien, Hans-Samuel, 3,686,232.
 Honig, Hans Ludwig; Suling, Carlhans; Dieterich, Dieter; and Reischl, Artur, 3,684,758.
 Honig, Hans Ludwig; Balle, Gerhard; Keberle, Wolfgang; and Dieterich, Dieter, 3,705,164.
 Horstmann, Walter; Kalz, Dietmar; Wolfrum, Gerhard; and Siegel, Edgar, 3,634,388.
 Horstmann, Walter; Kalz, Dietmar; Wolfrum, Gerhard; and Siegel, Edgar, 3,644,405.

Horstmann, Walter; Kalz, Dietmar; Wolfrum, Gerhard; and Siegel, Edgar, 3,646,004.
 Humburger, Siegfried; and Hahn, Willi, 3,687,951.
 Hund, Franz, 3,667,913.
 Jennes, Gert; Huth, Edmund; and Wolff, Willi, 3,692,875.
 Kabbe, Hans Joachim; Horstmann, Harald; Plumpe, Hans; Puls, Walter; and Petersen, Siegfried, 3,689,674.
 Kalz, Dietmar; and Wolfrum, Gerhard, 3,661,912.
 Keberle, Wolfgang; and Gobel, Wilhelm, 3,637,553.
 Keberle, Wolfgang, 3,641,140.
 Keberle, Wolfgang; Striegler, Hellmut; and Weber, Karl-Arnold, 3,684,639.
 Keberle, Wolfgang; Hornig, Heinz; and Sinn, Gustav, 3,686,387.
 Kiehne, Hartmut; and Petersen, Siegfried, 3,658,838.
 Kiehne, Hartmut; Petersen, Siegfried; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,658,839.
 Kienast, Gerhard; Peilstocker, Gunter; Volz, Hans G.; and Wiegrefe, Wolfgang, 3,663,494.
 Kirschneck, Hellmut; Hildebrand, Dietrich; and Breidbach, Gunter, 3,643,270.
 Kishino, Shigeo; Yamada, Yasuo; Kudamatsu, Akio; Sumi, Shozo; and Shiokawa, Kozo, 3,683,053.
 Kishino, Shigeo; Shiokawa, Kozo; Kudamatsu, Akio; and Yamada, Yasuo, 3,689,603.
 Klauke, Erich; and Kuhle, Engelbert, 3,639,471.
 Klauke, Erich; and Bien, Hans-Samuel, 3,694,444.
 Klein, Alfons; and Wedemeyer, Karlfried, 3,689,573.
 Knobloch, Walter; and Siegel, Edgar, 3,658,783.
 Knapfer, Hans; and Schellhammer, Carl-Wolfgang, 3,681,397.
 König, Klaus; Müller, Erwin; Kallert, Wilhelm; and Muhlhausen, Cornelius, 3,640,967.
 König, Klaus; Müller, Erwin; and Holtschmidt, Hans, 3,644,457.
 Krimm, Heinrich; Schnell, Hermann; and Lenz, Gunther, 3,639,341.
 Krimm, Heinrich; Schnell, Hermann; and Lenz, Gunther, 3,640,955.
 Krimm, Heinrich; Buysch, Hans Josef; and Schnell, Hermann, 3,654,336.
 Krimm, Heinrich; and Schnell, Hermann, 3,654,338.
 Krimm, Heinrich; Botta, Artur; and Schneill, Hermann, 3,670,024.
 Kronig, Walter; and Grolig, Johann, 3,655,759.
 Kruckenberg, Winfried, 3,651,040.
 Kubitzek, Harry; Essig, Karl-August; Von Falkai, Bela; Reichle, Alfred; and Bodesheim, Ferdinand, 3,664,914.
 Kudamatsu, Akio; Miyamoto, Masao; and Fukazawa, Nobuo, 3,679,726.
 Kuhle, Engelbert; Klauke, Erich; Hamburger, Brigitte; and Steinfatt, Fritz, 3,636,076.
 Kuhlthau, Hans-Peter; and Raue, Roderich, 3,652,556.
 Kume, Toyohiko; and Higashikawa, Shizuo, 3,663,665.
 Kunzel, Hans-Egon; Wolf, Gerhard Dieter; Blankenstein, Gunter; and Nischk, Gunther, 3,671,614.
 Kurtz, Peter; and Schwarz, Herbert, 3,688,003.
 Kurz, Jürgen; Kolling, Heinrich; and Federmann, Manfred, 3,697,517.
 Leduc, Joseph-Adrien M.; Lurie, Charles; Kronig, Walter; and Konrad, Peter, 3,701,719.
 Leister, Heinrich; and Vollmann, Heinrich, 3,646,033.
 Leontaritis, Lambis; Schon, Nikolaus; Hoffmann, Hans; and Sayed, Aziz El, 3,696,498.
 Leontaritis, Lambis; Schon, Nikolaus; and Hoffmann, Hans, 3,706,124.
 Leuschke, Christian; and Rohm, Wilhelm, 3,634,279.
 Ley, Kurt; Eholzer, Ulrich; Nast, Roland; Metzger, Karl Georg; and Fritsche, Dieter, 3,660,391.
 Ley, Kurt; Eholzer, Ulrich; Nast, Roland; and Seng, Florin, 3,660,398.
 Ley, Kurt; Nast, Roland; Redetzky, Wolfgang; and Kempermann, Theo, 3,661,905.
 Ley, Kurt; Eholzer, Ulrich; and Seng, Florin, 3,686,181.
 Ley, Kurt; Eholzer, Ulrich; Nast, Roland; Metzger, Karl Georg; and Fritsche, Dieter, 3,686,401.
 Ley, Kurt; Roos, Ernst; Kampermann, Theo; and Nast, Roland, 3,689,554.
 Liebsch, Dietrich; and Altner, Wilhelm, 3,645,979.
 Logemann, Heino; Meckel, Walter; and Müller, Erwin, 3,642,751.
 Logemann, Heino; and Bruckmann, Paul-Gunther, 3,649,608.
 Lorenz, Gunter; Gallus, Manfred; Giessler, Wolfgang; and Nischk, Gunther, 3,669,928.
 Lorenz, Gunter; Binkler, Heinrich; and Nischk, Gunther, 3,694,493.
 Lorenz, Walter; Unterstenhofer, Gunter; and Hammann, Ingeborg, 3,646,171.
 Lorenz, Walter; Fest, Christa; Hammann, Ingeborg; Federmann, Manfred; Flucke, Winfried; and Stendel, Wilhelm, 3,689,648.
 Machatzke, Heinz; and Singer, Josef, 3,682,978.
 Mansmann, Manfred; Zirngibl, Hans; and Immel, Otto, 3,632,575.

Mansmann, Manfred; Immel, Otto; and Zirngibl, Hans, 3,652,553.
 Marquarding, Dieter; Ugi, Ivar V.; Kleimann, Helmut; and Hoffmann, Peter, 3,647,775.
 Marwede, Gunter; Pampus, Gottfried; and Hoffmann, Martin, 3,646,161.
 Matejec, Reinhard; Meyer, Rudolf; and Himmelmann, Wolfgang, 3,639,128.
 Matsushima, Kiyoshi; Miyamoto, Masao; and Fukazawa, Nobuo, 3,658,871.
 Meckel, Walter; and König, Klaus, 3,654,364.
 Meckel, Walter; and Müller, Erwin, 3,681,290.
 Meiser, Werner; Eue, Ludwig; Hack, Helmut; Timmler, Helmut; and Wegler, Richard, 3,642,861.
 Meisert, Ernst; Awater, Albert; Muhlhausen, Cornelius; and Dobereiner, Uwe, 3,684,770.
 Meisert, Ernst; Striegler, Hellmut; Koch, Hans-Joachim; and Klebert, Wolfgang, 3,692,708.
 Merckbach, Heinrich; Glabisch, Dietrich; and Bartl, Herbert, 3,651,001.
 Merten, Rudolf, 3,639,418.
 Merten, Rudolf; Dunwald, Willi; and Mielke, Karl-Heinz, 3,642,524.
 Merten, Rudolf; and Wolf, Gerhard Dieter, 3,684,774.
 Merten, Rudolf; and Zecher, Wilfried, 3,705,874.
 Mertens, Peter; and Vollmann, Heinrich, 3,651,082.
 Metzger, Carl; Borrmann, Dieter; Wegler, Richard; Eue, Ludwig; and Hack, Helmut, 3,686,198.
 Metzner, Wolfgang; and Peilstocker, Gunter, 3,634,320.
 Michael, Dietrich; and Kosiol, Wilfried, 3,660,344.
 Michael, Dietrich; and Kosiol, Wilfried, 3,663,495.
 Minz, Franz-Rudolf; and Zirngibl, Eberhard, 3,644,089.
 Moller, Friedrich; Hauptmann, Gunter; and Patzelt, Heinz-Wolfgang, 3,694,510.
 Morgenstern, Karl; Schnell, Hermann; Bottenbruch, Ludwig; Court, Otto; Schwarz, Hans-Helmut; and Vernalenken, Hugo, 3,666,719.
 Moritz, Karl-Ludwig; and Taube, Carl, 3,642,769.
 Mott, Ludwig; Müller, Richard; Dinges, Karl; and Krauss, Heinz-Walter, 3,696,063.
 Müller, Erwin; and Thoma, Wilhelm, 3,639,354.
 Müller, Erwin; and Heydkamp, Wolfgang, 3,663,603.
 Müller, Erwin, 3,703,540.
 Munz, Ferdinand; Hack, Helmut; and Eue, Ludwig, 3,686,204.
 Nassenstein, Heinrich, 3,650,594.
 Nast, Roland; Ley, Kurt; Eholzer, Ulrich; Metzger, Karl-Georg; and Fritsche, Dieter, 3,639,400.
 Nast, Roland; Ley, Kurt; Redtzky, Wolfgang; and Kempermann, Theo, 3,639,485.
 Nast, Roland; Oertel, Harald; and Ley, Kurt, 3,642,669.
 Nast, Roland; Dahm, Manfred; Ley, Kurt; and Schubart, Rudiger, 3,687,875.
 Nast, Roland; Dahm, Manfred; and Ley, Kurt, 3,687,876.
 Nast, Roland; Kuhle, Engelbert; and Abele, Manfred, 3,703,500.
 Neff, Rutger, 3,654,319.
 Neuner, Otto; Dorlars, Alfons; Schellhammer, Carl-Wolfgang; and Berendes, Otto, 3,646,052.
 Nickel, Horst; and Suckfull, Fritz, 3,655,740.
 Nutz, Karl; and Haas, Friedrich, 3,634,376.
 Nutz, Karl; Dinges, Karl; and Haas, Friedrich, 3,639,660.
 Nutz, Karl; Haas, Friedrich; and Marwede, Gunter, 3,684,781.
 Nutz, Karl; Haas, Friedrich; and Marwede, Gunter, 3,684,787.
 Oberkirch, Wolfgang; Gunther, Peter; and Pampus, Gottfried, 3,655,584.
 Oberkirch, Wolfgang; Gunther, Peter; and Pampus, Gottfried, 3,687,921.
 Oediger, Hermann; and Merten, Rudolf, 3,644,371.
 Oertel, Gunter; Holtschmidt, Hans; and Carl, Wolfgang, 3,639,532.
 Oertel, Harald; Eholzer, Ulrich; and Rosendahl, Friedrich-Karl, 3,682,902.
 Ott, Karl-Heinz; Schuster, Herbert; Meckel, Walter; Dinges, Karl; and Müller, Erwin, 3,641,209.
 Pampus, Gottfried; and Witte, Josef, 3,632,849.
 Peters, Karl-Heinz; and Neff, Rutger, 3,699,126.
 Peters, Karl-Heinz; and Neff, Rutger, 3,705,178.
 Plumpe, Hans; and Puls, Walter, 3,668,215.
 Podschus, Ernst; Dorn, Ludwig; and Heinze, Gerhard, 3,676,366.
 Psaar, Hubertus; and Raue, Roderich, 3,637,748.
 Radlmann, Eduard; Ruetz, Lothar; and Nischk, Gunther, 3,660,356.
 Radlmann, Eduard; Kohler, Armin; König, Klaus; and Nischk, Gunther, 3,682,861.
 Raue, Roderich; and Kuhlthau, Hans-Peter, 3,642,823.
 Raue, Roderich; Eifer, Willi; and Kuhlthau, Hans-Peter, 3,647,349.
 Raue, Roderich; and Wolf, Karlheinz, 3,696,089.
 Reiff, Helmut; Dieterich, Dieter; and Wiegler, Frank, 3,684,759.
 Reiff, Helmut; and Dieterich, Dieter, 3,686,108.

Reiner, Martin, 3,650,800.
 Reinking, Klaus; Vogel, Helmut; Hechelhammer, Wilhelm; and Schneider, Kurt, 3,634,574.
 Reinking, Klaus; Vogel, Helmut; Hechelhammer, Wilhelm; and Schneider, Kurt, 3,676,544.
 Rinkler, Heinrich; Braden, Rudolf; and Nischk, Gunther, 3,673,242.
 Rodi, Fritz, 3,696,039.
 Roever, Wilhelm; Junghans, Helmut; and Kauczor, Hans-Werner, 3,699,207.
 Roos, Ernst; and Wagner, Klaus, 3,663,568.
 Roos, Ernst; and Wagner, Klaus, 3,663,575.
 Rosendahl, Friedrich Karl; Oertel, Harald; Rinke, Heinrich; and Thoma, Wilhelm, 3,658,746.
 Rosenkranz, Hans-Jürgen; Rudolph, Hans; and Heine, Hans-Georg, 3,686,084.
 Rosenkranz, Hans-Jürgen; Rudolph, Hans; and Kreuder, Hans-Joachim, 3,692,560.
 Rucker, Dietrich; Metzger, Carl; and Eue, Ludwig, 3,657,264.
 Ruppert, Heinrich; and Schnell, Hermann, 3,689,572.
 Sagner, Gerhard; and Behner, Otto, 3,651,053.
 Schafer, Karl; Reich, Friedrich; and Schuster, Hans, 3,653,957.
 Schafer, Karl; Reischl, Artur; Reich, Friedrich; and Dieterich, Dieter, 3,686,026.
 Scheide, Jürgen, 3,667,970.
 Schellhammer, Carl-Wolfgang; Dorlars, Alfons; and Wirth, Wolf-Dieter, 3,663,560.
 Scherhag, Bernhard; and Hausweiler, Arnold, 3,655,519.
 Scherzberg, Herbert; Neumann, Herbert; Schnegg, Robert; and Dietrich, Theo, 3,638,410.
 Scherzberg, Herbert, 3,685,276.
 Schirmer, Hermann; Peilstocker, Gunter; and Vernalenken, Hugo, 3,663,471.
 Schliebs, Reinhard; Schlor, Hanshelmut; and Homeyer, Bernhard, 3,644,598.
 Schliebs, Reinhard; Brandt, Hans-Walter; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; and Schnuchel, Gunther, 3,686,349.
 Schliebs, Reinhard; Uhlig, Konrad; Oertel, Gunter; and Diehr, Hans-Joachim, 3,707,587.
 Schlor, Hanshelmut, 3,641,141.
 Schlor, Hanshelmut; Hammann, Ingeborg; and Homeyer, Bernhard, 3,641,223.
 Schlor, Hanshelmut; Hoffmann, Hellmut; Regel, Erik; and Scheinpflug, Hans, 3,705,930.
 Schmelzer, Hans-Georg; Gertel, Gunter; Degener, Eberhart; and Dahm, Manfred, 3,644,490.
 Schmidt, Karl-Julius; and Hammann, Ingeborg, 3,657,234.
 Schmidt, Karl-Julius; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,681,334.
 Schmidt, Karl-Julius; and Hammann, Ingeborg, 3,697,518.
 Schminke, Hans Dieter; Grigat, Ernst; and Putter, Rolf, 3,642,725.
 Schmitz, Reinold; Leister, Heinrich; and Bien, Hans-Samuel, 3,632,610.
 Schnalke, Karl-Erwin; Suling, Carlhans; Logemann, Heino; and Resz, Raoul, 3,639,514.
 Schnegg, Robert; Pelousek, Herbert; Dippolhofer, Robert; Wiegrefe, Wolfgang; Voelz, Hans-Georg; and Kienast, Gerhard, 3,674,747.
 Schneider, Joachim; Groschel, Herbert; Kubitzek, Harry; Nawrath, Gunter; and Rudolph, Hans, 3,637,604.
 Schneider, Joachim; Hermann, Karl-Heinz; Rudolph, Hans; and Nawrath, Gunter, 3,660,522.
 Schnell, Hermann; Cziesla, Manfred J.; and Bottenbruch, Ludwig, 3,692,870.
 Scholl, Hans-Joachim; and Klauke, Erich, 3,694,507.
 Schrader, Gerhard; Eue, Ludwig; Hack, Helmut; Hirane, Seiichi; Aya, Masahiro; Kishino, Shigeo; and Fukazawa, Nobuo, 3,636,143.
 Schrader, Gerhard; Hammann, Ingeborg; and Stendel, Wilhelm, 3,641,221.
 Schrader, Gerhard; Hammann, Ingeborg; Stendel, Wilhelm; Unterstenhofer, Gunter; and Homeyer, Bernhard, 3,652,740.
 Schrader, Gerhard; Lorenz, Walter; Unterstenhofer, Gunter; and Hammann, Ingeborg, 3,676,555.
 Schrader, Gerhard; and Hermann, Gunther, 3,686,257.
 Schrader, Gerhard; Lorenz, Walter; Unterstenhofer, Gunter; and Hammann, Ingeborg, 3,689,604.
 Schrader, Gerhard; Eue, Ludwig; Hack, Helmut; Hirane, Seiichi; Aya, Masahiro; Kishino, Shigeo; and Fukazawa, Nobuo, 3,705,929.
 Schubart, Rudiger; Roos, Ernst; and Abele, Manfred, 3,671,503.
 Schubart, Rudiger; Eholzer, Ulrich; Kempermann, Theo; and Roos, Ernst, 3,697,433.
 Schulte-Huermann, Werner, 3,696,006.
 Schultz, Fritz, 3,660,237.
 Schulze, Manfred; and Schabacher, Werner, 3,669,621.
 Schwochow, Friedrich; Heinze, Gerhard; and Weber, Horst, 3,685,963.

Seng, Florin; Ley, Kurt; Metzger, Karl-Georg; and Fritsche, Dieter, 3,639,397.
 Seng, Florin; and Ley, Kurt, 3,642,796.
 Seng, Florin; and Ley, Kurt, 3,660,399.
 Seng, Florin; Key, Kurt; and Metzger, Karl Georg, 3,682,906.
 Seng, Florin, 3,686,400.
 Senge, Ferdinand; Weirauch, Kurt; and Bottenbruch, Ludwig, 3,670,051.
 Siegel, Edgar; and Sasse, Klaus, 3,666,747.
 Siegel, Edgar, 3,674,771.
 Simmler, Walter; and Steinbach, Hans-Horst, 3,687,606.
 Simons, Peter, 3,673,253.
 Singer, Josef, 3,665,019.
 Sirrenberg, Wilhelm; Hammann, Ingeborg; Behrenz, Wolfgang; Stendel, Wilhelm; and Unterstenhofer, Gunter, 3,652,742.
 Sirrenberg, Wilhelm; Unterstenhofer, Gunter; and Hammann, Ingeborg, 3,658,873.
 Steinbach, Hans-Horst; Theuer, Werner; and Schnurrbusch, Karl, 3,650,979.
 Stolzer, Claus; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,691,277.
 Stolzer, Claus; Hammann, Ingeborg; and Unterstengofer, Gunther, 3,705,927.
 Stolzer, Claus; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,705,928.
 Straub, Richard K., 3,698,701.
 Suling, Carlhans; Logemann, Heino; Kramer, Dieter; Rachwal-sky, Heinz; and Marzolph, Herbert, 3,644,265.
 Sutter, Hubert; and Beck, Manfred, 3,703,567.
 Swodenk, Wolfgang; Schwerdtel, Wulf; Losacker, Paul; and Engelhard, Bruno, 3,673,265.
 Szita, Jeno; Bahr, Ulrich; Marzolph, Herbert; and Nischk, Gunther, 3,666,722.
 Tacke, Peter; Binsack, Rudolf; and Weissel, Oskar, 3,673,123.
 Thoma, Wilhelm; Oertel, Harald; and Rinke, Heinrich, 3,635,870.
 Thoma, Wilhelm; Oertel, Harald; Rinke, Heinrich; and Bahr, Ulrich, 3,640,937.
 Traubel, Harro; Zorn, Bruno; Konig, Klaus; and Heydkamp, Wolfgang, 3,646,178.
 Traubel, Harro; and Konig, Klaus, 3,681,125.
 Traubel, Harro; and Konig, Klaus, 3,692,570.
 Ugi, Ivar, 3,670,005.
 Vernaleken, Hugo; Court, Otto; and Weirauch, Kurt, 3,674,740.
 Vernaleken, Hugo; Malamet, Georg; Bottenbruch, Ludwig; Krimm, Heinrich; and Schnell, Hermann, 3,687,895.
 Vollmann, Heinrich; and Mertens, Peter, 3,636,040.
 Von Bonin, Wulf; Muller, Erwin; and Wagner, Kuno, 3,637,909.
 Von Bonin, Wulf; Niermann, Horst; and Ott, Karl-Heinz, 3,651,171.
 Wagner, Klaus; and Roos, Ernst, 3,659,004.
 Wagner, Klaus; and Roos, Ernst, 3,689,489.
 Wagner, Klaus; and Roos, Ernst, 3,691,186.
 Wagner, Kuno; and Mennicken, Gerhard, 3,647,848.
 Wagner, Kuno; and Von Bonin, Wulf, 3,654,106.
 Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, 3,634,196.
 Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, 3,650,902.
 Walz, Klaus; Hees, Walter; and Quaadvlieg, Mathieu, 3,640,677.
 Walz, Klaus; Hees, Walter; and Quaadvlieg, Mathieu, 3,683,013.
 Walz, Klaus; Baecker, Manfred; and Quaadvlieg, Mathieu, 3,684,427.
 Wambach, Raimund; von Bonin, Wulf; and Wolz, Hermann, 3,658,912.
 Warncke, Heinz; and Kahl, Melchior, 3,643,511.
 Wegner, Peter; Neeff, Rutger; and Kuth, Robert, 3,642,426.
 Weirauch, Kurt; Krimm, Heinrich; Lenz, Gunther; and Schnell, Hermann, 3,657,198.
 Weise, Johannes; Zirngibl, Hans; and Heine, Heinz, 3,663,166.
 Weist, Martin; and Busing, Walter, 3,644,190.
 Weitzel, Hans; Dinges, Karl; Gobel, Wilhelm; and Hardt, Dietrich, 3,641,206.
 Westphal, Kurt; Meiser, Werner; Fue, Ludwig; and Hack, Hel-muth, 3,671,523.
 Wieden, Horst; Rellensmann, Wolfgang; Dieterich, Dieter; and Nischk, Gunther, 3,634,360.
 Wiegler, Frank; Dietrich, Werner; Bartl, Herbert; and Kraft, Karl-Josef, 3,655,589.
 Wirth, Wolf-Dieter; and Muller, Erwin, 3,674,837.
 Witt, Harro; Holtschmidt, Hans; and Muller, Erwin, 3,642,866.
 Witte, Josef; Haas, Friedrich; and Marwede, Gunter, 3,687,889.
 Witte, Josef; Pampus, Gottfried; Schon, Nikolaus; and Marwede, Gunter, 3,692,760.
 Wittmann, Gunther; Bauer, Kurt; and Mussgay, Manfred, 3,632,741.
 Wolf, Gerhard D.; Blankenstein, Gunter; and Nischk, Gunter, 3,676,525.
 Wolf, Karl-Heinz; Haus, Artur; Hornle, Reinhold; and Mager, Theodor, 3,653,936.

Wollweber, Hartmund; Hiltmann, Rudolf; and Stendel, Wilhelm, 3,686,199.
 Wunder, Walter; Klebert, Wolfgang; Herlinger, Heinz; and Schafer, Karl, 3,639,157.
 Yamada, Yasuo, 3,683,081.
 Zecher, Wilfried; and Merten, Rudolf, 3,658,773.
 Zecher, Wilfried; and Merten, Rudolf, 3,669,937.
 Zecher, Wilfried; and Merten, Rudolf, 3,697,484.
 Zecher, Wilfried; Kuhle, Engelbert; and Holtschmidt, Hans, 3,704,307.
 Zenner, Karl-Friedrich; Oertel, Gunter; and Holtschmidt, Hans, 3,637,811.
 Ziemann, Heinz; Lehmann, Wolfgang; and Troemel, Gerhard, 3,640,840.
 Zirngibl, Hans; Jaschiski, Klemens; Brande, Karl; Beumer, Peter; and Weidmann, Walter, 3,681,895.
 Zirngibl, Hans; Winter, Gerhard; and Mansmann, Manfred, 3,684,443.
 Zumach, Gerhard; Holtschmidt, Hans; and Kuhle, Engelbert, 3,632,815.
 Zumach, Gerhard; Hammann, Ingeborg; Unterstenhofer, Gunter; and Wegler, Richard, 3,683,031.
 Farbenfabriken Bayer Aktiengesellschaft vormal Meister Lucius & Bruning: See—
 Kuhle, Engelbert; Klauke, Erich; Frohberger, Paul-Ernst; and Scheinpfug, Hans, 3,658,992.
 Farber, Grigory Lvovich: See—
 Yavorsky, Arseny Vasilievich; Farber, Grigory Lvovich; and Gavrilenko, Grigory Andreevich, 3,659,976.
 Farber, Hugh A.: See—
 Tabor, Theodore E.; Farber, Hugh A.; and Vivian, Thomas A., 3,658,575.
 Farber, Milton: See—
 Fuest, Ronald W.; and Farber, Milton, 3,659,009.
 Farber, Milton; Miller, Robert; and Brown, Charles N., to Uniroyal, Inc. Mixture of filaments capable of being dyed to a multi-color pattern with anionic disperse dyes, 3,652,198, 3-28-72, Cl. 8-15.
 Farber, Milton; and Fuest, Ronald W., to Uniroyal, Inc. Dyeable polyolefin composition, 3,652,734, 3-28-72, Cl. 260-897.
 Farber, Sheldon: See—
 Shavel, John, Jr.; and Farber, Sheldon, 3,641,152.
 Farber, Sheldon; and Wright, Arthur John, to National Cash Register Company, The. Tetrachlorinated chromogenic compounds, 3,642,827, 2-15-72, Cl. 260-343.3.
 Farber, Sheldon; and Wright, Arthur John, to National Cash Register Company, The. Alkyl or halo substituted tetrahalofluorans, 3,642,828, 2-15-72, Cl. 260-343.3.
 Farber, Sheldon; and Wright, Arthur John, to National Cash Register Company, The. Tetrachlorinated chromogenic compounds, 3,654,314, 4-4-72, Cl. 260-343.3.
 Farber, Sheldon; and Wright, Arthur J., to National Cash Register Company, The. Chromogenic compounds, 3,694,461, 9-26-72, Cl. 260-335.000.
 Farbwerke Hoechst Aktiengesellschaft vormal Meister Lucius & Bruning: See—
 Mohr, Reinhard; and Ostermeier, Johann, 3,635,942.
 Farbwerke Hoechst Aktiengesellschaft vormal Meister Lucius & Bruning: See—
 Berger, Harald; Bestian, Herbert; and Korbanka, Helmut, 3,689,448.
 Clauss, Karl; and Lohaus, Gerhard, 3,689,485.
 Clauss, Karl; and Jensen, Harald, 3,689,486.
 Diedrich, Bernd; Keil, Karl Diether; and Rust, Kurt, 3,676,414.
 Diedrich, Bernd; Keil, Karl Diether; and Rust, Kurt, 3,676,415.
 Diery, Helmut; Kiefer, Bernhard; Rittner, Siegfert; and Seidel, Manfred, 3,671,308.
 Feess, Erich; and Ong, Sienling, 3,671,181.
 Geiger, Rolf; Konig, Wolfgang; Siedel, Watter; and Muschaweck, Roman, 3,689,482.
 Horn, Anton; Schinzel, Erich; and Rosch, Gunter, 3,679,668.
 Jager, Georg; and Geiger, Rolf, 3,679,655.
 Lindner, Fritz; Wallhausser, Karl Heinz; and Huber, Gerhard, 3,674,866.
 Lohe, Konrad; Mohr, Reinhard; Mundlos, Eberhard; and Freb, Hermann, 3,679,358.
 Lowenfeld, Rudolf; and Kaiser, Hans, 3,679,350.
 Oberst, Hermann; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,674,624.
 Papenfuss, Theodor; and Spietschka, Ernst, 3,671,553.
 Reuter, Martin; Beermann, Claus; and Linke, Fritz, 3,690,941.
 Rosch, Gunter; Linke, Werner; Smerz, Otto; and Schinzel, Erich, 3,690,947.
 Ruschig, Heinrich; Duwel, Dieter; Konig, Johann; and Loewe, Heinz, 3,681,458.
 Scherer, Otto; and Stahler, Gerhard, 3,674,803.
 Scherer, Otto; and Rochling, Hans, 3,681,376.
 Scherer, Otto; Hahnle, Reinhard; and Schneider, Gunter, 3,681,422.
 Schinzel, Erich; Pintschovius, Ulrich; and Lebkucher, Karl Heinz, 3,674,781.

Schorr, Manfred; Durckheimer Walter; Behrendt, Lothar; and Duwel, Dieter, 3,676,446.
 Schott, Herbert; and Herwig, Walter, 3,679,650.
 Schott, Herbert; Herwig, Walter; and Sommer, Siegfried, 3,687,924.
 Von der Eltz, Hans-Ulrich; Jeths, Johannes; and Boecker, Al-fons Bernhard, 3,672,815.
 von der Eltz, Hans-Ulrich; Birke, Walter; Kunze, Wolfgang; Tausus, Hofheim; and Schon, Franz, 3,679,349.
 Weissmer, Klaus; Uebe, Rudolf; and Pfister, Horst, 3,673,144.
 Farbwerke Hoechst Aktiengesellschaft vormal Meister Lucius & Bruning: See—
 Oberst, Hermann; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,674,625.
 Farbwerke Hoechst Aktiengesellschaft vormal Meister Lucius & Bruning: See—
 Andrascheck, Hans-Joachim; and Zentner, Erich, 3,639,509.
 Andrascheck, Hans-Joachim; and Zentner, Erich, 3,697,349.
 Arpe, Hans-Jurgen; and Hornig, Lothar Heinz, 3,642,875.
 Baechle, Hans Tuisko; and Kohlhaas, Rudolf, 3,656,899.
 Bartmann, Wilhelm; Duwel, Dieter; Georgi, Volkmar; Wolf, Er-hard; Beermann, Claus; and Landauer, Franz, 3,661,966.
 Berger, Harald; Bestian, Herbert; and Korbanka, Helmut, 3,644,303.
 Bestian, Herbert; Kaiser, Eduard; and Korbanka, Helmut, 3,657,207.
 Bestian, Herbert; Kaiser, Eduard; and Korbanka, Helmut, 3,657,262.
 Bestian, Herbert; and Grimm, Dieter, 3,663,535.
 Boldt, Manfred; Arpe, Hans-Jurgen; and Hornig, Lothar, 3,644,486.
 Boldt, Manfred; Arpe, Hans-Jurgen; and Hornig, Lothar, 3,651,101.
 Breitschaft, Siegfried; and Holtermann, Rolf, 3,634,359.
 Breitwieser, Heinz; and Heinz, Otto, 3,686,813.
 Brinkmann, Ludwig; and Herwig, Walter, 3,639,527.
 Brinkmann, Ludwig; and Herwig, Walter, 3,679,628.
 Brotz, Walter; and Dallmann, Bruno, 3,640,828.
 Burg, Karl-Heinz; Cherdron, Harald; Lehmann, Heinz; and Lutz, Eleonore, 3,639,192.
 Burg, Karl-Heinz; Gutweiler, Klemens; and Hermann, Hans Dieter, 3,639,349.
 Burg, Karl-Heinz; and Cherdron, Harald, 3,642,940.
 Burg, Karl-Heinz; Wolters, Ernst; Cherdron, Harald; and Leugering, Hans-Joachim, 3,704,275.
 Clasen, Hermann, 3,655,739.
 Deubel, Reinhold; Schinzel, Erich; Hemmerling, Volker; and Rosch, Gunter, 3,689,429.
 Diedrich, Bernd; and Keil, Karl Diether, 3,644,318.
 Diedrich, Bernd; and Dummer, Wilhelm, 3,654,249.
 Diery, Helmut; Rittner, Siegfert; and Lorke, Horst, 3,666,779.
 Eich, Eckart; and Rochelmeyer, Hans, 3,704,233.
 Emmel, Ludwig Friedrich, 3,646,212.
 Emmel, Ludwig Friedrich; and Kaeding, Dieter, 3,660,572.
 Feess, Erich; and Ong, Sienling, 3,704,087.
 Fernholz, Hans; and Neu, Hermann, 3,639,586.
 Fernholz, Hans; and Jacobsen, Gunter, 3,641,113.
 Fernholz, Hans; and Wendt, Heinz, 3,657,365.
 Fernholz, Hans; Schmidt, Hans-Joachim; and Wunder, Friedrich, 3,670,014.
 Fester, Walter; Hanschke, Ernst; and Jakob, Franz, 3,644,299.
 Fester, Walter; Hanschke, Ernst; and Jakob, Franz, 3,686,148.
 Fischer, Edgar; and Hafner, Karl-Heinz, 3,637,575.
 Fischer, Hartmut, 3,663,629.
 Friedrich, Herbert; and Trapp, Gunther, 3,679,674.
 Frischkorn, Hans; Pintschovius, Ulrich; Schinzel, Erich; and Smerz, Otto, 3,641,051.
 Frischkorn, Hans; and Schinzel, Erich, 3,652,667.
 Frischkorn, Hans; Schinzel, Erich; and Rosch, Gunter, 3,655,574.
 Fritsch, Werner; Haede, Werner; Radscheit, Kurt; Stache, Ulrich; and Lindner, Ernst, 3,639,392.
 Fritsch, Werner; Stache, Ulrich; Haede, Werner; and Radscheit, Kurt, 3,639,393.
 Frohlich, Helmut; and Brinkmann, Ludwig, 3,663,653.
 Geiger, Rolf; Pfaff, Werner; Eander, Alfred; Schone, Hans-Her-mann; and Mager, Adolf, 3,684,791.
 Gossel, Hartmut; Merkle, Kurt; Memmel, Ferdinand; and Janousch, Erwin, 3,684,542.
 Gowecke, Siegfried, 3,686,103.
 Grafmuller, Fritz, 3,640,021.
 Groebel, Alfred, 3,639,589.
 Groebel, Alfred; and Lindner, Ernst, 3,655,886.
 Haede, Werner; Stache, Ulrich; Fritsch, Werner; and Radscheit, Kurt, 3,639,388.
 Haede, Werner; Stache, Ulrich; Fritsch, Werner; and Radscheit, Kurt, 3,642,770.
 Hafner, Karl-Heinz, 3,642,701.
 Hafner, Karl-Heinz; and Cherdron, Harald, 3,644,290.

Hafner, Karl-Heinz; and Cherdron, Harald, 3,666,714.
 Hahn, Helmut; Rebsdat, Siegfried; Ruchlak, Kasimir; and Schuierer, Erich, 3,681,426.
 Hartwimmer, Robert, 3,632,847.
 Hauptmann, Gerhard; and Weber, Erhard, 3,686,078.
 Heine, Olaf; and Knisse, Gerhard, 3,696,623.
 Hertel, Hasso, 3,632,567.
 Hertel, Hasso, 3,658,456.
 Hertel, Hasso; Gehre, Kurt; Lowenfeld, Rudolf; and Kosubek, Uwe, 3,697,216.
 Herwig, Walter; and Uebe, Rudolf, 3,637,898.
 Herz, Luis; Mohr, Reinhard; Mundlos, Eberhard; Mundlos, Eberhard; and Ostermeier, Johann, 3,681,347.
 Hloch, Albert; Medic, Nikolaj; and Kohlhaas, Rudolf, 3,650,683.
 Hofmeister, Heinz-Karl, 3,661,516.
 Homuth, Horst; Feess, Erich; and Schidlo, Wolfram, 3,684,428.
 Hornig, Lothar; Arpe, Hans-Jurgen; and Boldt, Manfred, 3,646,111.
 Hornig, Lothar; Arpe, Hans-Jurgen; and Boldt, Manfred, 3,651,127.
 Hornig, Lothar; Fernholz, Hans; Schmidt, Hans-Joachim; Wunder, Friedrich; and Quadflieg, Therese, 3,658,888.
 Hornig, Lothar Heinz; Neu, Hermann; and Probst, Otto, 3,642,885.
 Hornig, Lothar Heinz; and Arpe, Hans-Jurgen, 3,687,993.
 Hoyer, Hans; Keil, Gunter; and Happe, Wilhelm, 3,655,844.
 Hummel, Heinz; and Gortz, Herbert, 3,695,093.
 Hunger, Klaus, 3,646,134.
 Jastrow, Horst; and Weber, Werner, 3,657,164.
 Jurgen-Lohmann, Ludwig; and Holtermann, Rolf, 3,679,268.
 Kaiser, Eduard; Korbanka, Helmut; and Stemmer, Hans Dieter, 3,651,034.
 Kaiser, Gerhard; and Tauber, Gunther, 3,658,994.
 Kampe, Klaus-Dieter; and Fischer, Edgar, 3,639,440.
 Kampe, Klaus-Dieter, 3,642,874.
 Kampe, Klaus-Dieter; and Fischer, Edgar, 3,642,956.
 Kampe, Klaus-Dieter, 3,644,458.
 Kampe, Klaus-Dieter; and Fischer, Edgar, 3,644,596.
 Kaupp, Josef, 3,655,820.
 Kleiner, Hans-Jerg, 3,657,352.
 Knisse, Gerhard; Berger, Richard; and Egert, Karl-Heinz, 3,643,440.
 Kosel, Christian; and Hartmann, Adolf, 3,654,233.
 Kosel, Christian; Hartmann, Adolf; and Gatys, Gerhard, 3,654,237.
 Krekeler, Hans; Fernholz, Hans; and Jacobsen, Gunter, 3,637,818.
 Krekeler, Hans; Meidert, Helmut; Riemenschneider, Wilhelm; and Hornig, Lothar, 3,651,157.
 Krekeler, Hans; Meidert, Helmut; Riemenschneider, Wilhelm; and Hornig, Lothar Heinz, 3,676,508.
 Kuhlkamp, Alfred; Fischer, Edgar; and Nolken, Ernst, 3,634,343.
 Kuhls, Jurgen; Hahn, Helmut; and Steininger, Alfred, 3,654,210.
 Kuhne, Gerhard; Kuhls, Jurgen; and Huber, Hans, 3,632,672.
 Kuhne, Rudolf; Meininger, Fritz; and Frolich, Heinrich, 3,637,648.
 Lange, Joachim; Malitschek, Otto; and Mader, Fred, 3,666,500.
 Lappe, Franz, 3,668,107.
 Lebkucher, Karl Heinz; Nischwitz, Ehrenfried; and Schinzel, Erich, 3,663,538.
 Lederer, Michael; and Siegfried, Sommer, 3,696,085.
 Leugering, Hans-Joachim; and Schaum, Helmut, 3,647,922.
 Lorcher, Otfried; and Steffen, Robert, 3,692,710.
 Lowenfeld, Rudolf; and Kosubek, Uwe, 3,642,424.
 Mauz, Otto; and Prinz, Eberhard, 3,636,035.
 Meininger, Fritz; and Fuchs, Hermann, 3,637,645.
 Meininger, Fritz; and Schlafer, Ludwig, 3,637,649.
 Meininger, Fritz; and Hahnle, Reinhard, 3,647,813.
 Meininger, Fritz; and Hunger, Kaus, 3,655,642.
 Meininger, Fritz; and Plessen, Helmut Von, 3,663,156.
 Meininger, Fritz; Hunger, Klaus; and Springer, Hartmut, 3,663,576.
 Moschel, Albrecht, 3,640,962.
 Neeb, Rudolf, 3,678,054.
 Nolken, Ernst, 3,640,917.
 Oberst, Hermann; Reihs, Leonhard; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,830.
 Oberst, Hermann; Reihs, Leonhard; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,833.
 Oberst, Hermann; Reihs, Leonhard; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,834.
 Oberst, Hermann; Leonhard, Hofheim; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,835.
 Oberst, Hermann; Reihs, Leonhard Hofheim; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,836.
 Opitz, Konrad, 3,637,647.
 Opitz, Konrad, 3,663,524.
 Ottawa, Norbert, 3,634,017.
 Ottawa, Norbert; and Schafer, Gustav, 3,655,601.

Otten, Joachim; and Schaeffer, Georg, 3,686,300.
Pfannenschmid, Otto, 3,639,557.
Radschelt, Kurt; Stache, Ulrich; Haede, Werner; Fritsch, Werner; and Lindner, Ernst, 3,641,009.
Radschelt, Kurt; Fritsch, Werner; Haede, Werner; and Stache, Ulrich, 3,657,228.
Radschelt, Kurt; Fritsch, Werner; Haede, Werner; Stache, Ulrich; and Schroder, Hans-Georg, 3,657,434.
Radschelt, Kurt; Kelkheim, Taunus; Stache, Ulrich; Haede, Werner; Hofheim, Taunus; Fritsch, Werner; Neuenhain, Taunus; and Lindner, Ernst, 3,681,344.
Radschelt, Kurt; Kelkheim, Taunus; Fritsch, Werner; Neuenhain, Taunus; Haede, Werner; Stache, Ulrich; Hofheim, Taunus; and Lindner, Ernst, 3,682,891.
Rentel, Heinz; and Spietschka, Ernst, 3,635,745.
Ribka, Joachim, 3,642,768.
Rippel, Robert; Dittmar, Walter; and Schorr, Manfred, 3,687,977.
Roscher, Gunter; and Schmitz, Heinz, 3,647,882.
Ross, Gerhard; Reul, Bernhard; Tillmann, Walter; and Liebenhoff, Reinhardt, 3,642,393.
Rottner, Emil; Bock, Franz; Muth, Willi; and Wenzel, Gunter, 3,678,146.
Salzwedel, Manfred, 3,683,361.
Schacht, Ulrich; Tschesche, Rudolf; and Duphorn, Ingolf, 3,660,569.
Schafer, Gustav; and Quint, Ferdinand, 3,652,602.
Schafer, Gustav; and Ottawa, Norbert, 3,663,539.
Scherep, Otto; Millauer, Hans; and Muller, Klaus-Dieter, 3,684,796.
Scherer, Otto; and Mildenerberger, Hilmar, 3,632,757.
Scherer, Otto; and Heubach, Gunther, 3,632,821.
Scherer, Otto; and Korinth, Jurgen, 3,651,156.
Scherer, Otto; Rammelt, Paul Peter; Korinth, Jurgen; and Frisch, Peter, 3,660,307.
Scherer, Otto; and Horlein, Gerhard, 3,660,436.
Scherer, Otto; and Rochling, Hans, 3,685,980.
Scherer, Otto; and Mildenerberger, Hilmar, 3,686,200.
Scheurle, Bruno; and Kelker, Kans, 3,689,525.
Schoernig, Ludwig, 3,655,867.
Schorr, Manfred; Mieth, Hubert; and Raether, Wolfgang, 3,639,412.
Schorr, Manfred; Durckheimer, Walter; and Duwel, Dieter, 3,658,834.
Schorr, Manfred; Durckheimer, Walter; and Duwel, Dieter, 3,660,422.
Schuierer, Erich; Renz, Werner; and Sommer, Hans, 3,679,634.
Schweizer, Peter; and Thaler, Hans, 3,657,388.
Sommer, Karl; and Bode, Hennig, 3,634,390.
Spietschka, Ernst; and Deucker, Walter, 3,642,815.
Spietschka, Ernst; and Ische, Friedrich, 3,647,828.
Spietschka, Ernst; and Ische, Friedrich, 3,655,670.
Spietschka, Ernst; and Ische, Friedrich, 3,655,672.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Radschelt, Kurt, 3,639,394.
Stache, Ulrich; Haede, Werner; Fritsch, Werner; Radschelt, Kurt; and Schroder, Hans-Georg, 3,663,579.
Stache, Ulrich; Radschelt, Kurt; Fritsch, Werner; Haede, Werner; and Lindner, Ernst, 3,674,779.
Steffen, Robert; Crombach, Arno; Lossen, Hermann; and Bieringer, Johann, 3,639,297.
Titzmann, Rudolf; Titzmann, Michael; Thaler, Hans; and Walter, Josef, 3,657,191.
Uebe, Rudolf; and Brinkmann, Ludwig, 3,663,498.
Uebe, Rudolf, 3,663,512.
Vetter, Hans-Joachim, 3,694,421.
Von der Eltz, Hans-Ulrich; and Gross, Richard, 3,649,161.
von der Eltz, Hans-Ulrich; and Kollodzeiski, Norbert, 3,681,005.
Weber, Helmut; Weyer, Rudi; Aumuller, Walter; Muth, Karl; and Stach, Kurt, 3,655,756.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Stach, Kurt, 3,705,151.
Weissermel, Klaus; and Kern, Rudolf, 3,632,402.
Weissermel, Klaus; Uebe, Rudolf; and Herwig, Walter, 3,652,484.
Weyer, Rudi; Aumuller, Walter; Weber, Helmut; Muth, Karl; and Heerdt, Ruth, 3,644,634.
Wunsch, Erich; and Wendtberger, Gerhard, 3,642,763.
Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning: See—
Hahn, Helmut; and Rebsdat, Siegfried, 3,689,545.
Farce, Jacques: See—
Farjon, Raymond; Farce, Jacques; Florent, Jacques; and Dumoulin, Michel, 3,702,314.
Farcilli, Andre: See—
Warrant, Julien; and Farcilli, Andre, 3,679,714.
Fareri, Elizabeth L.; Mc Guire, Robert J.; and Strange, Harold O., to Gulf Research & Development Company. Quaternary ammonium salts of esters of salicylic acid as rust inhibitors. 3,652,644, 3-28-72, Cl. 260-471.
Farfaletti-Casali, Flaviano: See—

Buzzi, Umberto; Dufresne, Jacques Pierre; and Farfaletti-Casali, Flaviano, 3,677,328.
Farge, Daniel; Messer, Mayer Naoum; and Moutonnier, Claude, to Rhone-Poulenc S.A. (3-Benzoylphenyl) alkanolic acids. 3,641,127, 2-8-72, Cl. 260-516.
Farge, Daniel; Messer, Mayer Naoum; and Moutonnier, Claude, to Rhone-Poulenc S.A. 2-(3-Benzyl-2-methoxy-phenyl) alkanolic acids. 3,652,666, 3-28-72, Cl. 260-520.
Fargo Machine & Tool Company: See—
Fortunski, Anthony C., 3,663,120.
Farha, Floyd E., Jr.: See—
Box, E. O., Jr.; Drehman, Lewis E.; and Farha, Floyd E., Jr., 3,674,706.
Farhi, Edward H.: See—
Farhi, Raphael; and Farhi, Edward H., 3,673,731.
Farhi, Raphael; and Farhi, Edward H. Reversible aerodynamic disc and gyroscopic toy. 3,673,731, 7-4-72, Cl. 46-47,000.
Faria, Sixdeniel, to Sylvania Electric Products, Inc. Process for preparing antimony phosphate. 3,649,174, 3-14-72, Cl. 23-105.
Faria, Sixdeniel; and Williams, Lyle K., to Sylvania Electric Products, Inc. Cathodoluminescent phosphor compositions. 3,655,575, 4-11-72, Cl. 252-301.6.
Faria, Sixdeniel; and Harrigan, David J., to Sylvania Electric Products, Inc. Zinc cadmium sulfide cathodoluminescent screen. 3,655,978, 4-11-72, Cl. 250-80.
Farian, Gerhard: See—
Eibofner, Eugen; Fink, Willi; and Farian, Gerhard, 3,672,060.
Sause, Martin; and Farian, Gerhard, 3,646,677.
Farimon Electric: See—
Euchner, William H.; and Ho, Eugene Y., 3,668,327.
Faria, William G., to Marathon Engineering Inc. Methods of multiple stage evaporation from heat sources other than steam. 3,638,708, 2-1-72, Cl. 159-47.
Farihon Electric: See—
Euchner, William Henry, Jr., 3,663,882.
Hansen, Kjell T., 3,667,048.
Faris, William R.; and Harokopus, William P., to Bendix Corporation. The Rear end warning system for automobiles. 3,697,985, 10-10-72, Cl. 343-5.0pd.
Fariesey, William J., Jr.: See—
Doering, William Von E.; Fariesey, William J., Jr.; and Frulla, Floro F., 3,683,034.
Farjon, Raymond; Farce, Jacques; Florent, Jacques; and Dumoulin, Michel, to Baignol & Farjon S. A. Tracing product mixture comprising an olefinic polymer, and ethylene vinyl acetate copolymer and a high boiling solvent. 3,702,314, 11-7-72, Cl. 260-23.00h.
Farkas, Alexander, to Goda, George. Method of cleaning glass. 3,660,294, 5-2-72, Cl. 252-100.000.
Farkas, Elizabeth H.: See—
Glicksman, Martin; Farkas, Elizabeth H.; and Carter, Sadie., 3,676,150.
Farkas, Eugene: See—
Bach, Nicholas J.; and Farkas, Eugene, 3,697,558.
Farkas, Joseph J.: See—
Aberer, James B.; Mead, Bill G.; and Farkas, Joseph J., 3,688,400.
Farkas, Paul; and Hidassy, Laszlo, to Thomas & Betts Corporation. Strap applying tool. 3,648,738, 3-14-72, Cl. 140-93.2.
Farkas, Peter, to Permatatch Diamond Tool Corporation. Method of coating diamond particles with metal. 3,650,714, 3-21-72, Cl. 51-295.
Farkas, Robert D. Heat sealing apparatus. 3,655,487, 4-11-72, Cl. 156-380.
Farkas, Robert D. Supply reel for banding apparatus. 3,670,986, 6-20-72, Cl. 242-107.100.
Farkas, Tibor: See—
Andersson, Nils Eric; and Farkas, Tibor, 3,649,738.
Bylund, Per-Ake; Farkas, Tibor; and Andersson, Nils Eric, 3,703,668.
Farley, Charles Edward, to American Cyanamid Company. Bleaching of lignin-containing cellulose materials such as pulp. 3,661,699, 5-9-72, Cl. 162-65.
Farley, Charles Edward, to American Cyanamid Company. Preparation of trivalent and pentavalent thio esters of phosphorus. 3,705,216, 12-5-72, Cl. 260-970.000.
Farley, David L.: See—
Manes, Dewey K.; Farley, David L.; and Wray, Gary Q., 3,646,995.
Farley, Francis F., to Shell Oil Company. Alpha-olefin production. 3,647,906, 3-7-72, Cl. 260-683.
Farley, Holt A., to Kinedyne Corporation. Strap tightening buckle. 3,641,630, 2-15-72, Cl. 24-68.
Farley, Holt A., to American Aluminum Company. Adjustable winch for cargo tie-down. 3,697,045, 10-10-72, Cl. 254-51.000.
Farley, James R.: See—
Keto, August I.; and Farley, James R., 3,697,932.
Farley, Rene; and Rocheleau, David O., to Canadian Patents and Development Limited. Pitch sustaining means for a key-operated monophonic instrument. 3,697,663, 10-10-72, Cl. 84-1.130.
Farley, Robert D., to Utley-James, Inc. Concrete form work clamp. 3,648,962, 3-14-72, Cl. 249-46.

Farley, Vincent P.: See—
Herman, Bernard B.; and Farley, Vincent P., 3,671,321.
Farley, Vincent P., Jr.: See—
Herman, Bernard B.; and Farley, Vincent P., Jr., 3,671,320.
Farley, William C.: See—
Wyand, Edwin B.; and Farley, William C., 3,672,891.
Farm Automatic Feeding Limited: See—
Slack, Vaughn H.; and Koens, Gillian Peter, 3,703,861.
Farman, Charles E.: See—
Farman, Charles E.; Green, Thomas C.; Pepper, Hurley D.; and Slone, Samuel (said Green, said Pepper and said Slone assors. to), 3,686,115.
Farman, Charles E.; Green, Thomas C.; Pepper, Hurley D.; and Slone, Samuel, said Green, said Pepper and said Slone assors. to Farman, Charles E. Ultrasonic apparatus and method for the purification of fluids. 3,686,115, 8-22-72, Cl. 210-19.000.
Farman, James A., to Dunlop Holdings Limited. Fluid propulsion mechanisms. 3,656,450, 4-18-72, Cl. 115-63.
Farmer, Alonzo: See—
Bogdan, John R.; and Farmer, Alonzo, 3,650,695.
Farmer, Alonzo; and Bogdan, John R., to PPG Industries, Inc. Method for producing titanium dioxide. 3,647,383, 3-7-72, Cl. 23-202.
Farmer, Bobby Joe; and Johnson, Jim Howard, to Advanced Technology Center, Inc., mesne. Method and apparatus for measuring radiation. 3,646,347, 2-29-72, Cl. 250-83.3.
Farmer, Edwin B.; Cadle, Terence M.; and Lane, Martin S., to Brico Engineering Limited. Ferrous alloys. 3,694,173, 9-26-72, Cl. 29-182.100.
Farmer, Francis Louis. Apparatus for use in the manufacture of semi-conductor devices. 3,667,661, 6-6-72, Cl. 225-2.
Farmer, John Howard: See—
Duck, Edward William; Farmer, John Howard; and Ridgewell, Brian John, 3,644,309.
Farmer, Larry B., to Deering Milliken Research Corporation. Stabilization of wool through treatment with a reducing agent and a polymer of polymer forming materials. 3,687,605, 8-29-72, Cl. 8-127.600.
Farmer, Marion R., to Aluma-Form, Inc. Nonlinear crossarm for bracketing electrical devices. 3,653,622, 4-4-72, Cl. 248-221.
Farmer, R. L., Limited: See—
Farmer, Robert Leslie Edward, 3,647,004.
Farmer, Robert B., to Katum Corporation. Marking devices for X-ray film. 3,683,182, 8-8-72, Cl. 250-67.000.
Farmer, Robert F., III; and Lawson, Jimmie B., to Shell Oil Company. Heat-stable calcium-compatible waterflood surfactant. 3,675,716, 7-11-72, Cl. 166-275.000.
Farmer, Robert Leslie Edward, to Farmer, R. L., Limited. Vertically and laterally adjustable plow standard. 3,647,004, 3-7-72, Cl. 172-152.
Farmer, Stanley E., to Cascade Corporation. Roll clamp. 3,690,714, 9-12-72, Cl. 294-88.000.
Farmer, William M., to United States of America, Air Force. Electrostatic spatial filter for a high power laser. 3,704,053, 11-28-72, Cl. 350-17.000.
Farmery, George K., to Clayton Dewandre Company Limited. Hydraulic systems. 3,667,497, 6-6-72, Cl. 137-118.
Farnady, Pal: See—
Bessko, Dezzo; Gallai, Gyula; Farnady, Pal; Jozsa, Geza; Kovy, Margit; Teller, Laszlo; Suba, Andras; and Tisza, Sandor, 3,652,166.
Farnam, F. D., Co.: See—
Farnam, Robert G.; and Passarella, Michael T., 3,655,210.
Farnam, Robert G., 3,661,401.
Farnam, Robert G., 3,668,036.
Farnam, Robert G., 3,679,218.
Farnam, Robert G., 3,697,348.
Farnam, Robert G.; and Passarella, Michael T., to Farnam, F. D., Co. High torque retention heat insulative gasket structure. 3,655,210, 4-11-72, Cl. 277-235.00b.
Farnam, Robert G., to Farnam, F. D., Co. Gasket. 3,661,401, 5-9-72, Cl. 277-227.
Farnam, Robert G., to Farnam, F. D., Co. Method for attaching gasket and/or insulator members to plate structures. 3,668,036, 6-6-72, Cl. 156-252.000.
Farnam, Robert G., to Farnam, F. D., Co. Unitized valve plate, gaskets and the like. 3,679,218, 7-25-72, Cl. 277-233.000.
Farnam, Robert G., to Farnam, F. D., Co. Method of making gaskets. 3,697,348, 10-10-72, Cl. 156-190.000.
Farnand, Joseph Redmond; and Puddington, Ira E., to Canadian Patents and Development Limited. Hollow spherical articles. 3,674,461, 7-4-72, Cl. 75-50r.
Farncomb, Robert E.: See—
Naufflett, George W.; and Farncomb, Robert E., 3,652,686.
Farneth, William N., to United States of America, Navy. Synchron-to-digital converter. 3,636,554, 1-18-72, Cl. 340-347.
Farney, Leonard C.: See—
Land, Edwin H.; Bloom, Stanley M.; and Farney, Leonard C., 3,704,126.

Farney, Leonard C., to Polaroid Corporation. Diffusion transfer article and process using humectant in emulsion layer. 3,666,460, 5-30-72, Cl. 96-29.
Farney, Leonard C.; and Groncki, Carole L., to Polaroid Corporation. Diffusion transfer product having heat activatable processing system and an opacity providing layer. 3,694,204, 9-26-72, Cl. 96-29.00r.
Farney, Leonard C.; and Haberlin, Richard J., to Polaroid Corporation. Diffusion transfer production of reflection positive with macroscopic pigment in receptive stratum. 3,705,804, 12-12-72, Cl. 96-29.00r.
Farney, Samuel D.: See—
Young, Robert L.; Wood, Russell E.; Farney, Samuel D.; and Hogan, Arnold U., 3,702,211.
Farnham, Norman W.; Mueller, William J.; and Gorall, Donald J., to Burroughs Corporation. Method of dry preparation of relief printing plates. 3,640,219, 2-8-72, Cl. 101-401.1.
Farnham, Robert A. Waste water purification. 3,640,686, 2-8-72, Cl. 23-181.
Farnsley, Robert Lorraine, to Sallee, Aaron D. Collapsible boat anchor. 3,656,448, 4-18-72, Cl. 114-208.
Farnsworth, David L.: See—
United States of America, National Aeronautics and Space Administration, 3,700,961.
Farnsworth, Dennis G.: See—
Moehlenpach, Walter G.; and Farnsworth, Dennis G., 3,687,239.
Farnsworth, Richard G.; and Keeler, James H., Jr., to General Electric Company. Telemetering system having a continuously monitoring encoder. 3,662,368, 5-9-72, Cl. 340-204.
Farnsworth, Richard G., to General Electric Company. Solid state scanner for a remote meter reading system. 3,706,086, 12-12-72, Cl. 340-180.000.
Farnsworth, Robert P.: See—
Dahlinger, Rodney J.; and Farnsworth, Robert P., 3,700,913.
Dobratz, Burton E.; and Farnsworth, Robert P., 3,644,740.
Farnsworth, Robert P.; and McCaughey, Dennis G. Wide band boost regulator power supply. 3,641,422, 2-8-72, Cl. 323-8.
Farnsworth, Robert P.; and Wyeth, Richard W., to Hughes Aircraft Company. Digital range measuring system. 3,666,367, 5-30-72, Cl. 356-5.000.
Farnsworth, Robert P.; and Dahlinger, Rodney J., to Hughes Aircraft Company. Efficiency pulse forming network charging systems. 3,668,435, 6-6-72, Cl. 307-260.000.
Farnworth, Edwin: See—
Fischer, Eduard F.; Farnworth, Edwin; and Christensen, Elmer, 3,661,283.
Farnworth, Ivan A. Electrical socket. 3,668,607, 6-6-72, Cl. 339-41.000.
Farnworth, Wilfred: See—
Smith, William C.; and Farnworth, Wilfred, 3,661,329.
Farnworth, Wilfred, to Rader Pneumatics Incorporated. Apparatus for removing particulate material from gases. 3,695,007, 10-3-72, Cl. 55-294.000.
Farone, Eugene Richard, to Lubrizol Corporation, The. Preparation of thermosetting compositions and thermoset resins from polymers of N-3-oxohydrocarbon-substituted acrylamides. 3,701,754, 10-31-72, Cl. 260-64.000.
Faroudja, Yves C., to Data Memory, Inc. Time base correction system for video recording apparatus. 3,674,920, 7-4-72, Cl. 178-5.4cd.
Faroy, Inc.: See—
Frazier, Preston J., Jr.; and Hubenak, Daniel W., Jr., 3,680,995.
Reilly, Joseph F., Jr.; Daigle, Joseph D.; and Hubenak, Daniel W., Jr., 3,681,123.
Farque, C. Anthony, to Wilburn, Ray H. and Maldonado, W. E., mesne. Chopper circuit for use in an A.C. servo amplifier. 3,679,957, 7-25-72, Cl. 318-684.000.
Farquhar, James G.; Gibson, Geoffrey M.; and Joice, Brian J., to Albright & Wilson Limited. Preservative compositions. 3,702,784, 11-14-72, Cl. 117-149.000.
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Culbert, Robert M.; and Southworth, Richard V., 3,641,744.
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- Farr, Glyn Phillip Reginald, to Girling Limited. Vehicle brake systems. 3,633,712, 1-11-72, Cl. 188-71.9.
- Farr, Glyn Phillip Reginald, to Girling Limited. Brake adjusters. 3,680,664, 8-1-72, Cl. 188-79.5gt.
- Farr, James B., to Tecumseh Products Company. Ignition circuit with automatic spark advance. 3,661,132, 5-9-72, Cl. 123-148.
- Farr, John B.; and Landrum, Ralph A., Jr., to Amoco Production Company. Geophysical surveying using Fresnel pilot signals. 3,678,454, 7-18-72, Cl. 340-15.5rs.
- Farr, John B., to Amoco Production Company. Seismic energy source using liquid explosive. 3,702,635, 11-14-72, Cl. 166-299.000.
- Farr, John Peter George; and Rowe, Geoffrey Whaley, to American Metal Climax Inc. Formation of lubricant coating by electrolysis. 3,703,449, 11-21-72, Cl. 204-56.00r.
- Farr, Kenneth E., to Westinghouse Electric Corporation. Slow motion converter for field sequential color television signals. 3,683,992, 8-15-72, Cl. 178-5.4cd.
- Farrace, Frederick Thomas: *See*—
Cofek, Henry Robert; and Farrace, Frederick Thomas, 3,680,966.
- Farrand, Clair L., to Inductosyn Corporation. Position-measuring transformer having end-detecting windings useful for positioning a magnetic head of a disc drive system. 3,673,584, 6-27-72, Cl. 340-174.10c.
- Farrand Optical Co., Inc.: *See*—
Baum, Matthew C., 3,654,386.
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- Farrand, Weston B.; Gardner, John N.; and Valenti, Robert M., to Space Ordnance Systems Inc., mesne. Microdetonator assembly. 3,686,934, 8-29-72, Cl. 86-1.000.
- Farrand, William A., to North American Rockwell Corporation. Process for producing magnetic transducer with narrow sensing tip. 3,668,042, 6-6-72, Cl. 156-309.000.
- Farrant, David J. Systems for drawing trailers behind tractors. 3,679,230, 7-25-72, Cl. 280-405.00b.
- Farrar, Ed: *See*—
Casey, Tommie; Farrar, Ed; and Cockrum, Grover, 3,694,835.
- Farrar, Henry C.; Shichman, Daniel; and Wos, Joseph S., to Uniroyal, Inc. Process and apparatus for texturizing yarn. 3,650,103, 3-21-72, Cl. 57-34.
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Gaeth, Rudolf H.; and Farrar, Ralph C., 3,674,895.
- Farrar, Ralph C., to Phillips Petroleum Company. Polymerization of conjugated dienes and monovinyl aromatic compounds with multifunctional polymerization initiators. 3,644,322, 2-22-72, Cl. 260-94.2.
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- Farrar, Ralph C.; and Wofford, Clinton F. Process of coupling alkali metal-terminated polymers with silicic compound in presence of conjugated dienes. 3,692,874, 9-19-72, Cl. 260-880.00b.
- Farrar, Reed A., to United States of America, Navy. Helmet mounted holographic aiming sight. 3,633,988, 1-11-72, Cl. 350-3.5.
- Farrar, Ruben T.: *See*—
Morrison, Clyde A.; Wortman, Donald E.; and Farrar, Ruben T., 3,667,068.
- Farrell, Buster F. Connecting and tensioning device for the in situ repair of broken drive chains and tracks. 3,648,973, 3-14-72, Cl. 254-67.
- Farrell, Gerald J.; and Bartos, Frank J., to Eltek Manufacturing Company. Single-handle mixing and proportioning valve. 3,667,503, 6-6-72, Cl. 137-625.400.
- Farrell, Gerald J., to Eltek Manufacturing Company. Appliance retainer structure. 3,680,152, 8-1-72, Cl. 4-187.00a.
- Farrell, Guy M. Lamp socket construction. 3,641,481, 2-8-72, Cl. 339-126.
- Farrell, Guy M., to Chicago Switch, Inc. Rocker switch. 3,671,693, 6-20-72, Cl. 200-67.00g.
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- Farrell, Richard, to United States of America, National Aeronautics and Space Administration. Lead attachment to high temperature devices. 3,665,589, 5-30-72, Cl. 29-492.000.
- Farrell, Robert C.; and Milton, Thomas J., to General Motors Corporation. Condition monitoring electrical switch. 3,646,285, 2-29-72, Cl. 200-61.08.
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Binkley, Carl R.; and Farrell, Robert G., 3,646,968.
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- Farrell, Roy Keith, to Research Corporation. Method and means for marking animals for identification. 3,633,584, 1-11-72, Cl. 128-316.
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Eibe, Werner W.; and Farrell, Wilfred T., Jr., 3,699,796.
- Farrelly, Frank Williams, to Process Evaluation and Development Corporation. Paper pulp digester blowdown method. 3,681,191, 8-1-72, Cl. 162-52.000.
- Farren, Gerard M., to Perkin-Elmer Corporation. The. Ion selective electrode for activity determination of cations which do not form as ionic semiconductors. 3,657,093, 4-18-72, Cl. 204-195.
- Farren, John: *See*—
Causser, Roy; Farren, John; Jones, Terence Leslie; Taylor, Brian Leslie; and Webster, Ronald Kerry, 3,698,819.
- Farrer, Sydney, to Bryan Donkin Company Limited. The. Gas supply shut-off valves. 3,635,239, 1-18-72, Cl. 137-461.
- Farrier, Ernest G.: *See*—
Elbert, Raymond J.; and Farrier, Ernest G., 3,677,721.
- Farrington, Allan P.; and Nastus, Anthony J., to Johnson & Johnson. Aspirator assembly. 3,690,563, 9-12-72, Cl. 239-346.000.
- Farrington Business Machines Corporation: *See*—
Strohschneider, Heinz F., 3,654,862.
- Farrington, Dale A.; and Vandevord, George E., to General Electric Company. Muzzle brake torque assist for multi-barrel weapons. 3,703,122, 11-21-72, Cl. 89-14.00c.
- Farrington, Frederick: *See*—
Nicklin, Thomas; Farrington, Frederick; and Houghton, James, 3,639,648.
- Nicklin, Thomas; and Farrington, Frederick, 3,649,169.
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Steele, Robert D.; and Farris, Richard J., 3,660,904.
- Farris, Richard W. Odor neutralizing device. 3,661,323, 5-9-72, Cl. 236-93.
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Stanley, Lester N.; and Farris, Russell E., Jr., 3,666,746.
- Farris, Walter. Multi-well agar-gel punch. 3,631,575, 1-4-72, Cl. 25-105.
- Farris, William T.: *See*—
Barriball, Richard D.; Farris, William T.; Gross, George F.; and Walters, Charles W., 3,635,483.
- Farrissey, William J., Jr.: *See*—
Carleton, Peter S.; Farrissey, William J., Jr.; and Rose, James S., 3,701,756.
- Carleton, Peter S.; and Farrissey, William J., Jr., 3,703,520.
- Doering, William Von E.; Farrissey, William J., Jr.; and Frulla, Floro F., 3,676,503.
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Saidi, Farrokhi; Shiraz, Iran; and Walker, Alan John, 3,658,066.
- Farrow, Desmond J. Turbine. 3,690,784, 9-12-72, Cl. 415-55.000.
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Davis, Gerald W.; Farrow, Gerald; and Ravenna, Nestor A., 3,636,131.
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- Farrow, Victor, to Thorn Electronics Limited. Fluorescent lamp inverter circuit. 3,703,677, 11-21-72, Cl. 321-45.00r.
- Farrow, William H. Wall tie for concrete forms. 3,648,961, 3-14-72, Cl. 249-43.
- Farrugic, Kenneth A. Fowl carrier. 3,702,210, 11-7-72, Cl. 312-198.000.
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Hale, Neville E.; and Gardner, Kenneth, 3,638,601.
- Farver, Alfred. Window wiper and scraper blade. 3,638,274, 2-1-72, Cl. 15-250.41.
- Farwell, Harry Russell: *See*—
Black, James A.; and Farwell, Harry Russell, 3,656,493.
- Black, James A.; and Farwell, Harry Russell, 3,679,112.
- Farwer, Alward: *See*—
Becker, Werner; Farwer, Alward; Frank, Georg; Reis, Bernhard; Rohf, Josef; and Auer, Rupert, 3,674,978.
- Fary, Robert Eaton. Putter training guide. 3,685,835, 8-22-72, Cl. 273-192.000.
- Farymann Diesel, Farny & Weidmann: *See*—
Lohr, Ludwig; and Hellwig, Karl, 3,650,250.
- Fasching, George E.: *See*—
Smith, Nelson S., Jr.; and Fasching, George E., 3,679,973.
- Fasciano, Patrick John: *See*—
Burbank, John Emerson; Lautenberger, William Henry; and Fasciano, Patrick John, 3,634,922.
- Fasco Industries, Inc.: *See*—
Bumpus, Ward H., 3,636,306.
- Fox, Norman P., 3,660,969.
- Hire, Charles John, 3,686,605.
- Holstrom, Allan, 3,659,959.
- Holstrom, Allan, 3,665,116.
- Holstrom, Allan, 3,669,145.
- Pearce, Richard A., 3,636,307.
- Shartle, Edward W., 3,648,477.
- Fasnacht, James J.: *See*—
Vanderbilt, Byron M.; and Fasnacht, James J., 3,674,542.
- Faso, William J. Door mounted spraying devices. 3,704,830, 12-5-72, Cl. 239-274.000.
- Fasol, Robert: *See*—
Ullrich, Walter; Lohse, Karl-Heinz; Leuteritz, Jochen; Zeitzschel, Gunter; and Fasol, Robert, 3,668,069.
- Fass, Jerome S. Educational devices. 3,683,516, 8-15-72, Cl. 35-37.
- Fassbender, Henry J.; and Case, Nelson S., to Eastman Kodak Company. Photographic stabilizing baths inhibited against corrosion with polyalkylene glycols. 3,667,951, 6-6-72, Cl. 96-61.000.
- Fassbender, Henry J., to Eastman Kodak Company. Color stabilization processing. 3,667,952, 6-6-72, Cl. 96-61.
- Fassbinder, Hans-Georg: *See*—
Knuppel, Helmut; Brotzmann, Karl; Fassbinder, Hans-Georg; Savard, Guy; and Lee, Robert, 3,706,549.
- Fassett, James M., II. Wind direction indicator. 3,641,815, 2-15-72, Cl. 73-188.
- Fassett, Matthew; and Unger, Phyllis S., to Stromberg-Carlson Corporation. Digital-to-analog and analog-to-digital signal translation with optical devices. 3,641,564, 2-8-72, Cl. 340-347.
- Fassett, Matthew, to Raytheon Company. Annular slot antenna with stripline feed. 3,665,480, 5-23-72, Cl. 343-754.
- Fassler, Edwin Eduard. Coupling for combustion tubes. 3,677,515, 7-18-72, Cl. 251-149.700.
- Fassler, Michael H.; and Perron, James S., to United Aircraft Corporation. Method of removing siliceous cores from nickel and cobalt super alloy castings. 3,698,467, 10-17-72, Cl. 164-132.000.
- Fassler, Michael H.; and Brinker, Norman E., to United Aircraft Corporation. Process of casting utilizing magnesium oxide cores. 3,701,379, 10-31-72, Cl. 164-132.000.
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Cvacho, Daniel S.; Fastabend, Patrick A.; Garriques, Alfred L.; and Jensen, Eric L., 3,698,593.
- Fastener Corporation: *See*—
Doyle, Richard H., 3,673,922.
- Naber, Joseph S., 3,662,190.
- Novak, Raymond F., 3,638,532.
- Obergfell, Allen R., 3,685,396.
- Ramspeck, Howard B., 3,638,534.
- Ramspeck, Howard B.; and Obergfell, Allen R., 3,677,456.
- Ramspeck, Howard B.; and Novak, Raymond F., 3,677,457.
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- Fastener Engineers, Inc.: *See*—
Alcock, Richard A., 3,646,798.
- Alcock, Richard A.; Guthrie, Robert M.; and Johnston, Robert B., 3,654,784.
- Fastert, Herbert: *See*—
Precht, Horst; and Fastert, Herbert, 3,658,120.
- Fasth, Kenneth Ulf Folke, to Erikssons, C. W., Platslageri Eft., AB. Device for rainwater pipes in buildings provided with cornices. 3,667,717, 6-6-72, Cl. 248-48.200.
- Fateichev, Anatoly Semenovich: *See*—
Povolotsky, Aron Markovich; Sushkin, Vyacheslav Petrovich; Fateichev, Anatoly Semenovich; and Gavrilov, Nikolai Vasilievich, 3,703,025.
- Fath, Joseph; and Deardorff, Donald L., to Teknor Apex Company. Poly(organotin) mercaptide polymers and resins stabilized therewith. 3,669,995, 6-13-72, Cl. 260-399.000.
- Fath, Joseph; and Rosen, Marvin, to Tenneco Chemicals, Inc. Aqueous surface-coating compositions containing hydroxyalkyl ethers of galactomannan gums as thickeners. 3,700,612, 10-24-72, Cl. 260-17.4st.
- Fath, Werner: *See*—
Salamon, Wolfgang; and Fath, Werner, 3,663,879.
- Fathauer, George H., to Eaton Yale & Towne, Inc. Load cell output circuit. 3,670,318, 6-13-72, Cl. 340-199.000.
- Fathauer, George H., to Hill, Harold, Jr., mesne. Impedance measuring circuit including means for automatically adjusting initial condition thereof. 3,675,120, 7-4-72, Cl. 324-61.00r.
- Fathauer, George H., to Zaring Industries, Inc. Speech scrambler. 3,686,571, 8-22-72, Cl. 325-32.000.
- Fathauer, George H., to Overton Corporation. Sample scale. 3,701,390, 10-31-72, Cl. 177-113.000.
- Fats and Proteins Research Foundation, Inc., mesne: *See*—
Khan, Mahmood H.; and Katamay, Myron M., 3,697,651.
- Fattalay, Robert. Sound-insulating device for noisy apparatus. 3,667,571, 6-6-72, Cl. 181-36.
- Fattor, Arthur P.; and Hortensius, William. Devices for drawing wires through conduits. 3,675,898, 7-11-72, Cl. 254-134.3ft.
- Fattore, Vittorio: *See*—
Vecchio, Martino; Gropelli, Giovanni; and Fattore, Vittorio, 3,650,987.
- Fatur, James I. Golf putting practice device and putting aid. 3,659,856, 5-2-72, Cl. 273-177.00r.
- Fatutto, Pierluigi: *See*—
Rainaldi, Nicolino; and Fatutto, Pierluigi, 3,684,018.
- Fatutto, Pierluigi: *See*—
Rainaldi, Nicolino; and Fatutto, Pierluigi, 3,656,553.
- Fatze, Willy: *See*—
Porret, Daniel; Habermeyer, Juergen; Seiz, Wolfgang; and Fatze, Willy, 3,635,844.
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- Fauber, Eugene M., to Sinclair Research Inc. Paving or binder compositions containing asphalt reacted with diisocyanate. 3,650,791, 3-21-72, Cl. 106-279.
- Fauber, Eugene M.; and Moyer, Hallard C., to Atlantic Richfield Company. Lubricating composition. 3,655,563, 4-11-72, Cl. 252-59.
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Arni, Urs; Fauci, Adriano; and Stocker, August, 3,655,721.
- Aufderreggen, Klaus; Arni, Urs; Fauci, Adriano; and Stocker, August, 3,683,003.
- Faude, Jack Herman; and Hollman, Henry, to Pennwalt Corporation. Continuous orbit panographic X-ray. 3,636,349, 1-18-72, Cl. 250-61.5.
- Faudot, Gerard: *See*—
Bathellier, Andre; and Faudot, Gerard, 3,692,494.
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Faul, Thomas L.; and Young, Richard G., 3,686,675.
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Winter, Werner; Fauland, Erich; Stach, Kurt; Schmidt, Felix Helmut; and Aumuller, Walter, 3,646,009.
- Fauland, Erich; Kampe, Wolfgang; Thiel, Max; Juhren, Wolfgang; Dietmann, Karl; and Stork, Harald, to Boehringer Mannheim G.m.b.H. N(6)-branched chain lower-alkyl-adenosine derivatives. 3,706,728, 12-19-72, Cl. 260-211.50r.
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Arnold, Douglas; and Faulconer, Harry A., 3,641,652.
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- Faulds, William W. Overload torque clutch. 3,643,770, 2-22-72, Cl. 192-56.
- Faulhaber, Gerhard: *See*—
Wilhelm, Hans; Faulhaber, Gerhard; Marx, Matthias; and Hann, Ernst Wilhelm, 3,632,838.
- Faulk, Joseph H.; Hanke, Jurgen J.; and Striegler, John H., to Atlantic Richfield Company. Drill pipe vibration control in rotary drilling. 3,635,294, 1-18-72, Cl. 175-65.
- Faulk, Joseph H.; Kern, Loyd R.; and King, Graham E., to Atlantic Richfield Company. Slim hole drilling. 3,675,728, 7-11-72, Cl. 175-57.000.
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- Faulkner, Bonnie G. After burning device for internal combustion engines. 3,690,105, 9-12-72, Cl. 60-283.000.
- Faulkner, Eric Andrew, to Brookdeal Electronics Limited. Electronic phase sensitive detector circuits. 3,673,506, 6-27-72, Cl. 329-103.
- Faulkner, John P., to Burroughs Corporation. Electroplated member and method and apparatus for electroplating. 3,634,047, 1-11-72, Cl. 29-194.
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- Faulkner, William G., to Fletcher, Peter S. Rocking mount for chairs. 3,690,725, 9-12-72, Cl. 297-258.000.
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Faulring, Merle E.; and Faulring, John A., 3,676,779.
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- Faun-Werke Kommunalfahrzeuge und Lastkraftwagen Karl Schmidt: *See*—
Fischer, Hans Jurgen; and Behrmann, Georg, 3,690,485.
- Faunce, Stuart F.; Stout, William E.; and Koehler, Harold W., to Hewitt-Robins Incorporated. Training idler. 3,661,246, 5-9-72, Cl. 198-202.

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Gautier, Jean Albert; Miocque, Marcel; Fauran, Claude; and Le Cloarec, Albert Yves, 3,632,593.
Gautier, Jean Albert; Miocque, Marcel; Fauran, Claude; and Le Cloarec, Albert Yves, 3,632,594.
Fauran, Claude I.: *See*—
Douzon, Colette A.; Huguet, Gerard J.; Fauran, Claude I.; Raynaud, Guy M.; and Gouret, Claude J., 3,654,298.
Fauran, Claude P.: *See*—
Eberle, Jeannine A.; Sergeant, Micheline Y.; Fauran, Claude P.; and Huguet, Gerard J., 3,642,898.
Raynaud, Guy M.; Fauran, Claude P.; Turin, Michel J.; Pourrias, Bernard M.; and Huguet, Gerard J., 3,696,100.
Fauran, Claude P.; Raynaud, Guy M.; Pourrias, Bernard M.; and Turin, Michel J., to Delalande S.A. Derivatives of 1-(3,4,5-trimethoxy cinnamoyl)-piperazine and process for their preparation. 3,634,411, 1-11-72, Cl. 260-240.
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Faure, Alphonse: *See*—
Blanchard, Alain; and Faure, Alphonse, 3,651,616.
Faure, Alphonse; Gigou, Claude; Mingat, Robert; and Ruaud, Michel, to Rhone-Poulenc S.A. Wax compositions. 3,639,320, 2-1-72, Cl. 260-28.5.
Faure, Denis Marie, to Chrysler France. Telescopic hydraulic damper. 3,706,362, 12-19-72, Cl. 188-282.000.
Faure, Jean: *See*—
Bex, Lucien; Faure, Jean; and Vienet, Roger, 3,702,416.
Faure, Jean-Marie. Transfer of a plurality of liquids. 3,664,364, 5-23-72, Cl. 137-205.
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Marchetti, Charles Joseph; and Faure, Marc Henri Jean, 3,680,657.
Faure, Robert, to Acme Maschinenfabrik GmbH. Programmed contouring machine for machining, by tool heads, irregularly shaped work pieces. 3,670,458, 6-20-72, Cl. 51-135.00r.
Faurholdt, Bent. Incinerator for the combustion of waste products, particularly plastic materials. 3,670,667, 6-20-72, Cl. 110-8.00a.
Faurian, Claude: *See*—
Eberle, Jeannine; Sergan, Micheline; Faurian, Claude; and Huguet, Gerard M., 3,639,476.
Fausser, Donald L.: *See*—
Adams, Dolor N.; and Fausser, Donald L., 3,669,657.
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Strien, Werner; and Faust, Eberhard, 3,697,128.
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Faust, Eberhard O.; and Keith, Klaus, to Recaro Aktiengesellschaft. Headrest. 3,650,561, 3-21-72, Cl. 297-391.
Faust, Elbert R., to M & T Chemicals Inc. Continuous plating system. 3,699,985, 10-24-72, Cl. 134-141.000.
Faust, Ellsworth E., to Celanese Corporation. Emulsion copolymerization initiator. 3,689,432, 9-5-72, Cl. 252-428.000.
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Faust, John P., to Olin Corporation. Preparation of high test calcium hypochlorite. 3,669,894, 6-13-72, Cl. 252-187.000.
Faust, Valentine T., Jr.: *See*—
Aurilio, Giuseppe; Aurilio, Giovanni; and Faust, Valentine T., Jr., 3,680,378.
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Cassinelli, Giuseppe; Cotta, Ernesto; Pennella, Paolo; and Faustini, Remo, 3,696,194.
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Von Sybel, Reinhard; Englesmann, Dieter; and Fauth, Gunter, 3,646,862.
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Fava, Ernesto. Hair washing device. 3,692,066, 9-19-72, Cl. 132-9.000.
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Favin, David L.: *See*—
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Favors, Hollice A. Broadband composite filter circuit. 3,671,889, 6-20-72, Cl. 333-76.000.
Fayre, John A., to Phillips Petroleum Company. Total sample indicator for chromatography. 3,686,923, 8-29-72, Cl. 73-23.100.
Fayre, Robert. Means for protecting electronic commutation motor from accidental overload. 3,644,808, 2-22-72, Cl. 318-138.
Fayre, Robert. Electronically commutated motor including commutation means responsive to reactive voltage induced in armature windings. 3,662,237, 5-9-72, Cl. 318-254.
Fayre, Robert. Signal generator for electronic commutation of a motor. 3,691,438, 9-12-72, Cl. 318-138.000.
Fayreau, Marcel, to Vilas Industries Limited. Adjustable furniture leg. 3,701,506, 10-31-72, Cl. 248-188.500.
Faw, Frederick L.; Johnson, Ralph E.; Warren, Constance A.; and Glenn, Dwight W., to United States of America, Health, Education and Welfare. Standardized set of compensating filters for mantle-field radiation therapy. 3,678,233, 7-18-72, Cl. 250-86.000.
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Machin, Charles M., Jr.; and Fawcett, John E., 3,651,388.
Fawcett Printing Corporation, The: *See*—
McKinney, Paul W., 3,676,040.
Fawcett, Richard; Smith, Arthur William; and Westwood, David, to Imperial Chemical Industries Limited. Low pressure-drop catalytic reactor. 3,694,169, 9-26-72, Cl. 23-289.000.
Fawdrey, Cecil Arthur; Simms, John Robert; Kenworthy, Derek; Roxburgh, Albert; and Hobbs, David; deceased (by Hobbs, Jeanie Wright; administratrix), to Associated Electrical Industries Limited. Gas blast interrupters. 3,683,141, 8-8-72, Cl. 200-148.00b.
Fawick, Thomas L. Two-bulb, fluid-filled hand exercising device. 3,658,326, 4-25-72, Cl. 272-68.
Faxon, Robert C.; and McGovern, Robert T., to Texas Instruments, Incorporated. Method for making ceramic titanate elements and materials therefor. 3,637,531, 1-25-72, Cl. 252-520.
Faxon, Robert C., to Texas Instruments, Incorporated. Composite thermistor temperature sensor having step-function response. 3,673,538, 6-27-72, Cl. 338-25.
Fay, David W., administrator: *See*—
Stewart, Paul H.; and Fay, David W., administrator, 3,653,896.
Fay, Elliott J.: *See*—
Ritter, Ralph Kenneth; Pease, Charles C.; and Fay, Elliott J., 3,641,305.
Fay, Homer; Alford, Wilbur J.; and Dess, Howard M., to Union Carbide Corporation. Lithium niobate harmonic generator and method. 3,639,776, 2-1-72, Cl. 307-88.3.
Fay, James M.: *See*—
Hale, Gordon H.; and Fay, James M., 3,647,255.
Fay, James P. Safety grenade. 3,636,878, 1-25-72, Cl. 102-64.
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Padwick, Herbert W.; and Fay, Lawrence P., 3,703,936.

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Fayling, Richard E., to Minnesota Mining and Manufacturing Company. Detection of obstructing vehicles on high-speed roadways. 3,683,328, 8-8-72, Cl. 340-32.000.
Fazio, James A.; and Wesbey, William H., to General Electric Company. Dark current clamp for television camera with a circular field of view permitting maximum utilization of vidicon target. 3,674,931, 7-4-72, Cl. 178-7.1.
Fazio, Joseph. Safety plug for firearms. 3,678,609, 7-25-72, Cl. 42-1.00n.
Feagan, Robert L. Apparatus and method for conveying information. 3,646,690, 3-7-72, Cl. 35-16.
Feakes, Frank: *See*—
Chadsey, Earl E., Jr.; and Feakes, Frank, 3,660,146.
Chadsey, Earl E., Jr.; and Feakes, Frank, 3,666,578.
Feakes, Frank; and Padawer, Gabriel E., to National Research Corporation. Method of providing substrates with stiff reinforcing material. 3,702,261, 11-7-72, Cl. 117-106.00r.
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Fearing, Ralph B., to Stauffer Chemical Company. Alkylarylpolyoxyalkylene alkyl or aryl phosphates. 3,666,843, 5-30-72, Cl. 260-951.
Fearing, Ralph B., to Stauffer Chemical Company. Pesticidal phosphoro and phosphono acetylhydrazides. 3,678,165, 7-18-72, Cl. 424-211.000.
Fearley, Charles; and Jones, Thomas Ivor, to Geigy Chemical Corporation. Combined cleaning and anti-soiling compositions. 3,639,290, 2-1-72, Cl. 252-152.
Fearnow, Edgar C.; and Martin, William E., to Armstrong Cork Company. Method for forming a laminated floor covering. 3,658,617, 4-25-72, Cl. 156-235.
Fearnow, Philip W.: *See*—
Adams, Philip E.; and Fearnow, Philip W., 3,678,140.
Fearon, Frederick W. G.: *See*—
Saam, John C.; and Fearon, Frederick W. G., 3,665,052.
Saam, John C.; and Fearon, Frederick W. G., 3,678,125.
Saam, John C.; and Fearon, Frederick W. G., 3,678,126.
Fearon, Joseph G., to Morrison-Knudsen Company, Inc. Rail handling system. 3,682,332, 8-8-72, Cl. 214-41.000.
Fearon, Joseph G., to Morrison-Knudsen Company, Inc. Railway hopper car pivoted closure chute. 3,654,872, 4-11-72, Cl. 105-239.
Fearon, Joseph G.; and Battermann, George Monte Gilbert, to Morrison-Knudsen Company, Inc. Method and apparatus for laying railroad ties on a prepared road surface. 3,701,320, 10-31-72, Cl. 104-6.000.
Feather, Clark B. Longitudinally collapsible canopy for pickup trucks and analogous frames. 3,688,787, 9-5-72, Cl. 135-7.10a.
Feather, Landis E., to Westinghouse Electric Corporation. Method of making disk-type windings for electrical inductive apparatus. 3,683,495, 8-15-72, Cl. 29-605.000.
Feather, Peter; and Bruggess, Colin Michael, to British Drug Houses Limited. The. 17 α -(1',3' alkadiymyl)-17 β -acyloxy(17 β -aroyloxy) steroids. 3,691,212, 9-12-72, Cl. 260-397.400.
Featherston, Richard H., to Reynolds Metals Company. Precipitation of alumina hydrate. 3,649,184, 3-14-72, Cl. 23-143.
Featherstone, Arthur H. Internal combustion engine. 3,636,704, 1-25-72, Cl. 60-15.
Feazle, Richard B.: *See*—
Mott, James D.; and Feazle, Richard B., 3,680,342.
Fechenbacher Armaturen- und Metallwaren-Fabrik Hohe KG: *See*—
Kurschner, Gustav, 3,656,830.
Fechheimer, Paul R.; and Gagliardo, John P., to A-T-O Inc. Bearing means for filling machines and the like. 3,658,100, 4-25-72, Cl. 141-152.
Fechter, Willi: *See*—
Ewe, Gerhard; Dennerlein, Hugo; Schmidt, Heinrich; Hirschmeier, Horst; and Fechter, Willi, 3,650,468.
Fechtig, Bruno: *See*—
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,632,810.
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,639,396.
Bickel, Hans; Fechtig, Bruno; and Kump, Wilhelm, 3,644,337.
Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,646,023.
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Voser, Walter; Mueller, Johannes; and Peter, Heinrich, 3,661,901.
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Hueller, Johannes; and Peter, Heinrich, 3,682,903.
Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,686,172.
Bosshardt, Rolf; Fechtig, Bruno; Mueller, Johannes; Peter, Heinrich; and Bickel, Hans, 3,706,746.
Heusler, Karl; and Fechtig, Bruno, 3,679,676.
Fechtig, Bruno; Vischer, Ernst; Bickel, Hans; Bosshardt, Rolf; and Urech, Jakob, to Ciba-Geigy Corporation. Process for splitting the 7-N-acyl group from cephalosporin compounds. 3,697,515, 10-10-72, Cl. 260-243.00c.
Fecker, Josef, to Texpatent GmbH. Textile mesh and method and apparatus for its manufacture. 3,636,730, 1-25-72, Cl. 66-95.
Fecor Industries, Ltd.: *See*—
Graybill, Robert W.; Reiber, Stanley C.; Nace, Donald W.; and White, Ellis S., 3,667,747.
Fedchenko, Feodosy Mikhailovich. Escapement drive for counting mechanisms. 3,685,277, 8-22-72, Cl. 58-23.00d.
Feddern, Edward C.: *See*—
Noll, Charles A.; Feddern, Edward C.; and Stefanelli, Louis J., 3,656,908.
Feddern, Henry A.; and Sabol, John A., to Precision Valve Corporation. Power hood. 3,638,795, 2-1-72, Cl. 210-169.
Fedders Corporation: *See*—
Buck, Leo V., 3,636,786.
Hartzell, Donald W., 3,658,256.
Morgan, Wendell D., 3,645,453.
Morgan, Wendell D., 3,672,573.
Triplett, Robert D.; and Laue, Terry J., 3,637,224.
Woehler, Harold L., 3,702,680.
Feddersen, Donald W.; and Markowski, Everett L., to Air Cargo Equipment Corporation, mesne. Cargo container. 3,672,529, 6-27-72, Cl. 220-1.500.
Feder, Alvin, to Motorola, Inc. Paper roll support and tension device. 3,647,158, 3-7-72, Cl. 242-55.2.
Feder, Alvin, to Motorola, Inc. Printer drive with page record feed. 3,647,356, 3-7-72, Cl. 346-101.000.
Feder, Alvin, to Motorola, Inc. Key operated switch. 3,663,774, 5-16-72, Cl. 200-42.
Feder, Ernst; Deselaers, Kurt; and Czechovsky, Gunther, to Dynamit Nobel Aktiengesellschaft. Process for separating steam-volatile organic solvents from industrial process waste waters. 3,669,847, 6-13-72, Cl. 203-14.000.
Feder, Friedhelm R., to Wedco, Inc. Closed circuit pneumatic conveying. 3,694,037, 9-26-72, Cl. 302-22.000.
Federal Auto Products Co., Inc.: *See*—
Philipps, Virgil, 3,690,703.
Federal Cartridge Corporation: *See*—
Horn, William B.; Merritt, Edward E.; and Schmidt, Delbert D., 3,688,699.
Merritt, Edward E., 3,662,683.
Federal Casters Corporation: *See*—
Cumella, Charles; and Cutrone, Joseph, 3,667,085.
Federal Mogul Corporation: *See*—
Van Deven, Dale A., 3,633,927.
Federal Operating Co.: *See*—
Richardson, Jesse L., 3,660,588.
Federal Pacific Electric Company: *See*—
Dunigan, Francis P., 3,643,065.
Edmunds, William Harold, 3,636,482.
Fortier, Jean R.; and Wrobel, Donald P., 3,670,284.
Worth, Arthur J., 3,644,880.
Federal Paper Board Company, Inc.: *See*—
Arneson, Edwin L., 3,653,503.
Arneson, Edwin L., 3,698,151.
D'Alessio, Joseph R., 3,680,687.
Federal Products Corporation, mesne: *See*—
Fougere, Guy L.; Rothery, John L.; and Miller, Raymond H., 3,670,243.
Federal Screw Works: *See*—
Brown, Robert S., II, 3,668,954.
Tuttle, Phillip E., 3,690,558.
Federal Sign and Signal Corporation: *See*—
Wasson, Richard Z., 3,674,226.
Federal-Huber Corporation: *See*—
Stayner, Vance A., 3,707,434.
Federal-Mogul Corporation: *See*—
Aho, Edwin, 3,640,594.
Berens, Alfred S., 3,672,690.
Burke, Michael J., 3,666,852.
Day, Frank A.; and Repella, James A., 3,692,318.
Dunn, William M.; and Sarnes, Myron C., 3,665,585.
Haller, John, 3,631,583.
Haller, John, 3,648,343.
Haller, John, 3,664,008.
Haller, John, 3,666,456.
Haller, John, 3,705,509.
Ladin, Eli M.; Kegerise, Harry L.; and Adams, John S., 3,674,357.
Le Brasse, Gordon J.; and Stolarski, Boniface, 3,676,103.
Reichman, Steven H.; and Smythe, John W., 3,639,179.
Reichman, Steven H., 3,655,458.
Sarnes, Myron C., 3,666,454.
Schwarz, Steven E., 3,680,874.

- Secunda, Kenneth, 3,673,661.
 Secunda, Kenneth, 3,696,490.
 Smythe, John W.; and Karp, Philip I., 3,671,230.
 Federico, Armando; and Guarino, Henry R., to Avco Corporation. Monitoring system for physiological support systems. 3,698,381, 10-17-72, Cl. 128-1.00r.
 Federline, Richard G., 1/2 to Webb, Don Eugene. Alarm holder for fishing rods. 3,670,443, 6-20-72, Cl. 43-17.000.
 Federman, Alfred P. Process of bonding molten metal to preform without interfacial alloy formation. 3,669,179, 6-13-72, Cl. 164-66.
 Federmann, Manfred: See—
 Kurz, Jürgen; Kolling Heinrich; and Federmann, Manfred, 3,697,517.
 Lorenz, Walter; Fest, Christa; Hammann, Ingeborg; Federmann, Manfred; Flucke, Winfried; and Stendel, Wilhelm, 3,689,648.
 Fedewitz, Anthony. High-lift snow shoe. 3,673,713, 7-4-72, Cl. 36-2.5ab.
 Fedi, Leto; Meunier, Jean; and Vertut, Jean, to Commissariat à l'Energie Atomique. Safety device for interlocking sealed enclosure. 3,682,208, 8-8-72, Cl. 141-384.000.
 Fedi, Letto; and Glachet, Charles. Demountable cells for shielding radioactive elements. 3,644,737, 2-22-72, Cl. 260-108.
 Fedor, James R.: See—
 Christie, Christopher E.; Fedor, James R.; Harwell, Ishmael S.; and Riggs, Robert S., 3,666,598.
 Fedor, Richard M. Gripping shaft. 3,685,757, 8-22-72, Cl. 242-68.000.
 Fedor, Richard M. Coil holder. 3,685,760, 8-22-72, Cl. 242-78.700.
 Fedor, Robert J., to Gould Inc., mesne. Electric resistance heating element. 3,651,304, 3-21-72, Cl. 219-200.
 Fedorek, John M. Liquid wax applicator. 3,694,097, 9-26-72, Cl. 401-206.000.
 Fedorenko, Anatoly Stepanovich; Mescheryakov, Jury Alexeevich; Prytkov, Alexandr Alexandrovich; and Tyabirdin, Vladimir Vasilievich. Amalgam housing means for a fluorescent lamp. 3,688,148, 8-29-72, Cl. 313-109.000.
 Fedorkov, Albert Pavlovich; Yaroslavsky, Mikhail Iosifovich; and Orlovskaya, Galina Yankelievna. Piezoelectric quartz element. 3,691,411, 9-12-72, Cl. 310-9.500.
 Fedorov, Svyatoslav Nikolaevich; and Zakharov, Valery Dmitrievich. Artificial antenna chamber lens. 3,673,616, 7-4-72, Cl. 3-13.000.
 Fedorova, Hoza Dmitrievna: See—
 Korshak, Vasily Vladimirovich; Gribova, Irina Alexandrovna; Krasnov, Alexandr Petrovich; Teplyakov, Mikhail Mikhailovich; Fedorova, Hoza Dmitrievna; and Shumaevskaya, Alla Nikolaevna, 3,652,408.
 Fedorova, Valentine Vsevolodovna: See—
 Menyailo, Anatoly Tikhonovich; Pospelov, Mikhail Valerievich; Kaliko, Olga Romanovna; Pokrovskaya, Inna Evgenievna; Fedorova, Valentine Vsevolodovna; Shilnikova, Albina Georgievna; Yakovleva, Antonina Karpovna; and Narozhenko, Tamara Georgievna, 3,664,810.
 Fedors, Robert F.: See—
 United States of America, National Aeronautics and Space Administration, 3,706,221.
 Fedosoff, Joseph P.; and Trebish, John R., to Domtar Limited. Evaporation of brine crystallizing sodium chloride with fatty acid additive. 3,682,601, 8-8-72, Cl. 23-300.000.
 Fedotov, Nikolai Semenovich: See—
 Mironov, Vladimir Florovich; Fedotov, Nikolai Semenovich; and Kozlikov, Vadim Lvovich, 3,697,569.
 Fedrigo, Renzo, to Olivetti, Ing. C., & C., S.p.A. Feed device for a metal strip. 3,684,146, 8-15-72, Cl. 226-176.000.
 Fedrigo, Renzo, to Olivetti, Ing. C., & C., S.p.A. High velocity press. 3,695,130, 10-3-72, Cl. 83-13.000.
 Fedtro, Inc.: See—
 Kahn, Robert D., 3,654,045.
 Fee, Harry R.; and Hurley, Eldon K., to Hercules Incorporated. Aqueous slurry salt type explosives containing nitrate-alkanol as sensitizer component and manufacture thereof. 3,653,992, 4-4-72, Cl. 149-2.
 Fee, Willard E. Closure for fly tackle fishing box. 3,639,021, 2-1-72, Cl. 312-234.1.
 Feed, Meier E.; Bell, Stanley C.; and Wei, Peter H. L., to American Home Products Corporation. 2-Substituted-3-arylindoles. 3,660,430, 5-2-72, Cl. 326-160.
 Feed Screws, Inc.: See—
 Dray, Robert F.; and Lawrence, Donald L. (said Dray assor. to), 3,650,652.
 Feeley, Albert G.; and Landis, George G., to Lincoln Electric Company, The. Method of and power supply for electric arc welding. 3,657,724, 4-18-72, Cl. 219-131.
 Feemster, John R., to United Technology Center. Variable thrust propulsion engine. 3,646,597, 2-29-72, Cl. 60-251.
 Feeney, Brian P.: See—
 Peters, Joseph, Jr.; and Feeney, Brian P., 3,674,909.
 Feeney, Richard L., to De Laval Turbine Inc. Turbine overspeed trip system with testing mechanism. 3,682,564, 8-8-72, Cl. 415-16.000.
 Feenstra, Robijn, to Shell Oil Company. Diamond bit. 3,640,356, 2-8-72, Cl. 175-329.
 Feenstra, Willem Hendrik; and Keppler, Johann Georg, to Lever Brothers Company. Compositions of mattter. 3,664,851, 5-23-72, Cl. 99-163.
 Feeny, Richard William: See—
 Lutz, Albert William; and Feeny, Richard William, 3,669,970.
 Feer, Lawrence P.: See—
 MacFarlane, Walter J.; and Feer, Lawrence P., 3,693,210.
 Feese, Glenn A.: See—
 Crane, Paul J.; and Feese, Glenn A., 3,699,249.
 Feess, Erich: See—
 Homuth, Horst; Feess, Erich; and Schidlo, Wolfram, 3,684,428.
 Feess, Erich; and Ong, Sienling, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the production of prints and pad-dyeings fast to rubbing without requiring an after-treatment on nitrogen-containing fibrous materials. 3,671,181, 6-20-72, Cl. 8-165.000.
 Feess, Erich; and Ong, Sienling, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Alkylating agent neutralizing dialkyl-amine from dialkylaminoalkyl sulfone reactive dye in continuous acid resist printing and steaming. 3,704,087, 1-28-72, Cl. 8-66.000.
 Feest, Robert H., Jr.: See—
 McKee, Lewis W.; and Feest, Robert H., Jr., 3,640,593.
 Fefferman, Gerald B., to Bell Telephone Laboratories, Incorporated. Method of depositing an adherent gold film on the surfaces of a suitable substrate. 3,653,946, 4-4-72, Cl. 117-46.
 Fefferman, Gerald Burt: See—
 De Fabritis, Raymond P.; Fefferman, Gerald Burt; Gesner, Bruce David; and Radner, Raymond John, 3,699,552.
 Fefferman, Gerald Burt, to Bell Telephone Laboratories, Incorporated. Technique for the fabrication of a photolithographically definable, glass covered gold conductor pattern. 3,676,087, 7-11-72, Cl. 29-195.00g.
 Fegan, Lloyd V., Jr.; and Sloughfy, James L., to Bethlehem Steel Corporation. Method for producing highly-fluxed pellets containing oxides of iron from in-plant waste products. 3,684,478, 8-15-72, Cl. 75-3.000.
 Fegen, James, to Richco Plastic Company. Circuit board support. 3,688,635, 9-5-72, Cl. 85-5.00r.
 Fegley, Charles R.: See—
 Abraham, Bruce C.; Fegley, Charles R.; and Lougher, George B., III, 3,674,141.
 Feher, Jozsef, to Eisenberg, Alfred. Separator for nested articles. 3,664,521, 5-23-72, Cl. 214-8.5.
 Feher, Mike B.: See—
 Richeson, William E., Jr.; and Feher, Mike B., 3,656,151.
 Fehlaui, Yngurd M. Bivert cast and adjuster. 3,631,855, 1-4-72, Cl. 128-90.
 Fehler, Adolf: See—
 Hagen, Hermann; Fehler, Adolf; and Greune, Christian, 3,657,886.
 Fehler, Adolf, to Motoren- und Turbinen-Union Munchen GmbH. Gas turbine engine. 3,664,124, 5-23-72, Cl. 60-39.28.
 Fehler, Adolf; Greune, Christian; and Holzhauser, Hilbert. Control system for metering the fuel flow in gas turbine engines. 3,688,495, 9-5-72, Cl. 60-39.280.
 Fehlhauer, Juergen: See—
 Demme, Ernst; Schachowskoy, Theodor; Schuhmacher, Guenther; Fehlhauer, Juergen; and Hartmann, Ludwig, 3,647,594.
 Fehling, Hans Reinhard, to Didier-Werke A. G. Rotary valve for metallurgical vessels and the like. 3,685,706, 8-22-72, Cl. 222-531.000.
 Fehling, Hans Richard: See—
 Winkler, Hans-Joachim; and Fehling, Hans Richard, 3,655,176.
 Fehr, Bernard H. P.; and Gascon, Joseph, to Fabriques de Produits Chimiques de Thann et de Mulhouse. Process for producing basic zirconium sulfate and zirconia from sodium silicozirconate. 3,649,168, 3-14-72, Cl. 23-18.
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 Pearson, David L.; and Fehring, Bernard G., 3,632,694.
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 Feichtinger, Hans: See—

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 Gothel, Herbert; and Feichtinger, Hans, 3,674,692.
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 Krausz, Johann; and Feichtinger, Johan, 3,703,057.
 Feichtmayr, Franz: See—
 Wuerstlin, Franz; Feichtmayr, Franz; and Eilingsfeld, Heinz, 3,669,888.
 Wuerstlin, Franz; and Feichtmayr, Franz, 3,674,695.
 Feick, John Edwin: See—
 Darsi, Chandrasekhara Rao; Feick, John Edwin; and Mustaklem, Isa Christopher, 3,692,831.
 Feier, Milton: See—
 Pantzer, Myron; and Feier, Milton, 3,698,852.
 Feierabend, Louis B.: See—
 Arseneault, Paul J.; and Feierabend, Louis B., 3,661,309.
 Feierfeil, Jiri: See—
 Kadera, Vaclav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemec, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, 3,647,312.
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 Feighan, Joseph A.: See—
 Eisen, Howard; and Feighan, Joseph A., 3,684,576.
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 Phillips, Delbert L.; and Feightner, Lewis Clark, 3,654,423.
 Phillips, Delbert L.; and Feightner, Lewis Clark, 3,707,614.
 Feigin, Robert: See—
 Hartnett, James J.; and Feigin, Robert, 3,667,899.
 Feikema, Orville A. Anti-skid brake. 3,651,900, 3-28-72, Cl. 188-181.
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 Barabas, Eugene S.; and Fein, Marvin M., 3,635,868.
 Barabas, Eugene S.; and Fein, Marvin M., 3,686,150.
 Barabas, Eugene S.; and Fein, Marvin M., 3,691,125.
 Graham, David E.; Schulze, Thomas; and Fein, Marvin M., 3,681,429.
 Paustian, John E.; and Fein, Marvin M., 3,667,524.
 Fein, Marvin M.; and Barabas, Eugene S., to GAF Corporation. Stable aqueous emulsions. 3,637,567, 1-25-72, Cl. 260-29.7.
 Fein, Roman: See—
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 Feinmaschinenbau, Nagele, Karl F., Dr.: See—
 Popovitsch, Ernst, 3,666,853.
 Feinstein, Allen I.: See—
 Fields, Ellis K.; and Feinstein, Allen I., 3,691,243.
 Feinwerkbau Westinger & Altenburger KG: See—
 Edwin, Woehrstein, 3,646,682.
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 Feiss, Rene T., to Sulzer Brothers Limited. Method for mounting a pipe in a perforated plate. 3,698,067, 10-17-72, Cl. 29-470.100.
 Feisst, Jutta: See—
 Morf, Max; Wenger, Markus; and Feisst, Jutta, 3,679,621.
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 Stewart, William H.; and Feistel, Robert B., 3,648,303.
 Feistel, Robert B., Jr., to HSH, Inc. Earth scraper. 3,703,776, 11-28-72, Cl. 37-9.000.
 Feit, Peter Werner: See—
 Tvaermose Nielsen, Frey, Hans-Hasso; and Feit, Peter Werner, 3,634,410.
 Feit, Peter Werner, to Lovens Kemiske Fabrik Produktionsaktieselskab. Pharmaceutical composition for the treatment of oedematous conditions and hypertension. 3,634,583, 1-11-72, Cl. 424-22.
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 Gunther, Gregory M.; Fekete, Ferenc; Liedtke, Ronald R.; and Stephens, Donald H., 3,643,374.
 Fekete, Frank; and McNally, John S. Unsaturated polyesters. 3,674,727, 7-4-72, Cl. 260-22.00d.
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 Lapham, Thomas B.; and Feldberg, Leonard H., 3,663,920.
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 Felder, Johann, Jr. Removable extension plate. 3,695,189, 10-3-72, Cl. 108-65.000.
 Felder, John Lawson: See—
 Everhart, John; and Felder, John Lawson, 3,651,184.
 Feldhaus, James F., to Minnesota Mining and Manufacturing Company. Magnetic cleaning. 3,695,934, 10-3-72, Cl. 134-1.000.
 Feldhoff, Heinrich: See—
 Schmid, Hans; Feldhoff, Heinrich; Martin, Wolfgang; Fessmann, Heinz; and Hahn, Edeleried, 3,640,063.
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- Opderbeck, Fritz; Ploetz, Theodor; Thamm, Rudolf; and Westerhuis, Popko J., 3,676,294.
- Opderbeck, Fritz; Ploetz, Theodor; and Thamm, Rudolf, 3,691,009.
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- Anschutz, Erhard, 3,643,309.
- Barnscheidt, Wolfgang, 3,701,335.
- Engelsberger, Herbert, 3,695,426.
- Genz, Heinz; Berger, Dieter; Pfeleiderer, Dieter; and Seeliger, Horst, 3,639,207.
- Genz, Heinz; Berger, Dieter; Seeliger, Horst; and Schmidt, Karl, 3,642,573.
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- Hornstein, Herbert, 3,653,497.
- Pelikan, Hans Dieter; and Funke, Hans Joachim, 3,645,813.
- Ploetz, Theodor; and Sendt, Alfred, 3,657,043.
- Voigt, Heinz, 3,661,043.
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- Klaskin, Leonard; and Feldstein, Jesse, 3,652,372.
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- Felice, Tetaz: See—
- Ackermann, Jacob; Ferre, Franco; and Felice, Tetaz, 3,687,899.
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- Appiani, Edoardo; and Felici, Alberto, 3,678,175.
- Felix Bauer: See—
- Rousseau, Louis Marie, 3,682,117.
- Felix, Dorothea: See—
- Eschenmoser, Albert; Felix, Dorothea; and Stoll, Max, 3,649,694.
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- Felker, Paul J., to Penetred Corporation. Art of forming tire treads with elongated traction-augmenting elements. 3,687,583, 8-29-72, Cl. 425-20.000.
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- Long, William D.; Fell, Ferol S.; Wells, Bernard L.; and Prichard, John P., 3,670,590.
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- Fellin, Karin E.: See—
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- Fels, Werner; and Andree, Klaus, to Hell, Rudolf, Dr.-Ing. Sheet carrier mechanism for picture telegraphy apparatus. 3,649,004, 3-14-72, Cl. 271-51.
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- Perrotti, Emmanuel J.; Ranghelli, Joseph C.; and Felsenheld, Robert A., 3,681,769.
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- Bradshaw, Carleton R.; Felsher, Hal-Curtis; and Hanau, Walter J., 3,632,390.
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- Felt, Adolph E.; and Maklary, Joseph R., to Smith, A. O., Corporation. Detecting missing or defective connectors. 3,665,742, 5-30-72, Cl. 72-4.
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- Schaefer, William L., 3,653,675.
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- Levacher, Friedrich; Ditscheid, Hans Leo; Burger, Walter; Aselborn, Peter; and Cramer, Werner, 3,672,196.
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- Harings, Horst, 3,668,577.
- Feltgen, Karl-Heinz; and Espanion, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Process and device for the manufacture of a non-woven matted web from synthetic yarn. 3,698,610, 10-17-72, Cl. 226-7.000.
- Feltgen, Karlheinz: See—
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- Adler, Imre; Felts, Louis; and Klucheff, Nicholas S., 3,642,153.
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- Burns, Joseph P.; and Feltzin, Joseph, 3,681,106.
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- Amundsen, Paul D.; and Liautaud, John N., 3,696,442.
- Liautaud, Philip J., 3,673,610.
- Fendel, Kurt: See—
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- Fender, Manfred. Oscillating circuit converter. 3,683,263, 8-8-72, Cl. 321-45.00r.
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- Fengler, Harald: See—
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- Fengler, Werner H.: See—
- Ferch, Alois Wilhelm, 3,646,182.
- Fenish, Robert G.: See—
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- Fenix & Scisson, Inc.: See—
- Cobbs, James H., 3,635,295.
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- Fenne, Ivor, to C.A.V. Limited. Liquid fuel injection pumping apparatus. 3,663,123, 5-16-72, Cl. 417-284.000.
- Fennell, John Richard; and Harvey, Robert J., to Meditron, Inc. Taste-modifying composition containing miraculin and method of preparation. 3,676,149, 7-11-72, Cl. 99-140.00r.
- Fennell, Lewis Harvey. Automotive headlamp cleaning system. 3,704,481, 12-5-72, Cl. 15-250.010.
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- Fenner, Gunther E., to General Electric Company. Display system utilizing light emitting devices. 3,696,389, 10-3-72, Cl. 340-324.00r.
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- Fryatt, Leslie Alva, 3,638,592.
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- Fenske, Ellsworth R.; and Sampson, Robert W., to Universal Oil Products Company. Determination and control of a composition characteristic while blending a multi-component combustible fluid. 3,672,840, 6-27-72, Cl. 23-230.0pc.
- Fenster, Nathan; and Schiffman, Theodore H. Credit card wallet and method of making same. 3,659,640, 5-2-72, Cl. 150-35.
- Fenstermaker, Ronald E.: See—
- Burns, Thomas V.; Catterall, John M.; Elliott, Gary L.; and Fenstermaker, Ronald E., 3,643,034.
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- Fenton, Donald M., to Union Oil Company of California. Hydrocarboxylation reaction to form straight-chain anhydrides. 3,641,071, 2-8-72, Cl. 260-398.
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- Fenton, Donald M., to Union Oil Company of California. Reaction of a carboxylic acid anhydride with an ethylenically unsaturated hydrocarbon. 3,654,322, 4-4-72, Cl. 260-398.
- Fenton, Donald M., to Union Oil Company of California. Preparation of dihydrocarbyl carbonates from monalcohols and trihalomethanes. 3,654,337, 4-4-72, Cl. 260-463.
- Fenton, Donald M., to Union Oil Company of California. Preparation of methacrylic acid. 3,655,745, 4-11-72, Cl. 260-526.

- Fenton, Donald M., to Union Oil Company of California. Preparation of N-N'-diaryl-1,4-diaminonaphthalene compound. 3,655,763, 4-11-72, Cl. 260-576.
- Fenton, Donald M., to Union Oil Company of California. Reaction of an aldehyde with a carboxylic acid. 3,660,441, 5-2-72, Cl. 260-413.
- Fenton, Donald M., to Union Oil Company of California. Hydrocarboxylation process utilizing an iron salt cocatalyst. 3,661,949, 5-9-72, Cl. 260-413.
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- Fenton, Donald M. Preparation of allyl alcohol from butyrolactone. 3,692,849, 9-19-72, Cl. 260-638.00r.
- Fenton, Donald M. Nitro or nitroso aromatic composition. 3,696,046, 10-3-72, Cl. 252-186.000.
- Fenton, Donald M., to Union Oil Company of California. Preparation of a ketone and an aldehyde by carbonylation of an olefin in the presence of a secondary alcohol. 3,697,600, 10-10-72, Cl. 260-593.00r.
- Fenton, Donald M., to Union Oil Company of California. Preparation of aromatic acids. 3,700,729, 10-24-72, Cl. 260-515.00r.
- Fenton, Donald M., to Union Oil Company of California. Preparation of alkyl halides, carboxylates and alcohols. 3,702,856, 11-14-72, Cl. 260-410.90r.
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Tompkins, Victor N.; Miller, Kent D.; Muraschi, Thelma F.; and Fenton, John W., II, 3,658,986.
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Poiras, Edward J., 3,684,021.
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Foster, George B., 3,632,285.
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- Fenwick, Jay G., to Streater Industries, Inc., mesne. Sign mounting socket. 3,664,617, 5-23-72, Cl. 248-38.000.
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- Fenwick, Jay G., to Streater Industries, Inc. Shelf and bracket assembly. 3,701,325, 10-31-72, Cl. 108-1.000.
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- Michel, Francis; Gandon, Louis; Jean, Roger; and Fer, Pierre, 3,660,026.
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Reist, Walter, 3,671,035.
- Ferag, Fehr & Reist AG: *See—*
Reist, Walter, 3,669,008.
- Wetter, Jakob, 3,692,301.
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Eberle, Jurg, 3,652,084.
- Ferara, James T., to Harris-Intertype Corporation. Noiseless paper-board guide. 3,648,913, 3-14-72, Cl. 226-189.
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Wolf, Allan L.; and Ferber, David, 3,659,060.
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Beschke, Helmut; Pfeleger, Hans; Ferch, Horst; and Wisenmenger, Edith, 3,656,981.
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- Ferdelman, Donald C., to General Motors Corporation. Control for room air conditioner with electric heat. 3,666,002, 5-30-72, Cl. 165-29.000.
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- Ferdinand, Irwin J.; Kulbersh, Irwin R.; and Cassiere, Gerald D., to Hirsh Company, The. Corner attachment for lightweight steel shelving. 3,691,966, 9-19-72, Cl. 108-144.000.
- Fereday, Stanley; and Smelt, William Harry, to Davy and United Engineering Company Limited. Rolling mills. 3,667,271, 6-6-72, Cl. 72-238.000.
- Feren, Conrad J., to Lilly, Eli, and Company. Continuous culture separation apparatus. 3,651,945, 3-28-72, Cl. 210-324.
- Ferenc, Joseph W. Apparatus for shuttering poured concrete structures. 3,689,019, 9-5-72, Cl. 249-13.000.
- Ference, Richard N.; Grega, Albert; Miller, James A.; Stewart, Ray T.; and Stricker, David M., to Aluminum Company of America. Container inspection apparatus. 3,700,101, 10-24-72, Cl. 209-80.000.
- Ferguson, James L.; and Goldberg, Newton N., to Westinghouse Electric Corporation. Method and apparatus for detecting X-ray radiation using a cholesteric detector. 3,657,538, 4-18-72, Cl. 250-83.
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Schneider, Othmar; Fergg, Berthold; and Zahn, Wolfgang, 3,632,206.
- Fergus, Richard W., to United States of America, Atomic Energy Commission. Telemonitoring system. 3,678,512, 7-18-72, Cl. 340-408.000.
- Ferguson, Clyde Parker, Jr.: *See—*
Aaron, Herbert S.; and Ferguson, Clyde Parker, Jr., 3,694,464.
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- Ferguson, Don E.: *See—*
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- Ferguson, Donald C.; Lynch, Frederick W.; and Simons, Gerald F., to Sperry Rand Corporation. Automatic control system with pseudo position feedback and monitor. 3,643,146, 2-15-72, Cl. 318-565.
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- Ferguson, Harry R., to United States of America, Army. Composite polysulfide propellant cured with a monofunctional mercaptan. 3,706,610, 12-19-72, Cl. 149-19.000.
- Ferguson, Harry, Research Limited: *See—*
Webb, Oswald, 3,680,673.
- Ferguson, Herman V., to Fire Control Engineering Company. Fire extinguisher spinner nozzle. 3,682,388, 8-8-72, Cl. 239-222.170.
- Ferguson, Hugo S., to Reel Vortex, Inc. Lawn mower suspension. 3,638,405, 2-1-72, Cl. 56-10.4.
- Ferguson, Hugo S., to Reel Vortex, Inc. Detachable sharpener for a cross-flow mower. 3,659,385, 5-2-72, Cl. 51-250.
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- Ferguson, James A.: *See—*
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- Ferguson, Jean. Teaching aid for retarded children. 3,668,789, 6-13-72, Cl. 35-9.00c.
- Ferguson, Jeremiah M., to Riley Stoker Corporation. Control of fluid flow through centrifugal pumps. 3,640,251, 2-8-72, Cl. 122-406.
- Ferguson, Otis B., to Recovery Systems Research, Inc. Rereefing parachute and aerial recovery system. 3,655,151, 4-11-72, Cl. 244-142.
- Ferguson, Patrick E.: *See—*
Cushner, Stanton H.; Ferguson, Patrick E.; Griffiths, Henry W.; and Nelson, Alfred M., 3,636,535.
- Ferguson, Robert M.: *See—*
Mammino, Joseph; and Ferguson, Robert M., 3,640,710.
- Ferguson Transformers Pty., Limited: *See—*
Grul, Andries Theodorus, 3,702,421.
- Ferguson, William B. Fluid line coupling. 3,689,110, 9-5-72, Cl. 285-15.000.
- Ferguson, William G. Massage apparatus. 3,672,357, 6-27-72, Cl. 128-49.000.
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Barlow, Conrad R.; and Fergusson, Alexander H. B., 3,688,952.
- Fergusson, Gordon J.; and Wahrhaftig, Austin L., to Scientific Research Instruments Corporation. Catheter for use in detecting dissolved gas in fluids such as blood. 3,658,053, 4-25-72, Cl. 128-2.
- Fergusson, Ian L., to Thomas & Betts Corporation. Matched impedance connector. 3,634,806, 1-11-72, Cl. 339-14.
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Kirk, Charles C.; Ferington, Thomas E.; and Gregorian, Razmic S., 3,668,038.
- Ferkes, Nanno: *See—*
Poel, Dirk E.; Medema, Dirk; Van Helden, Robert; Ferkes, Nanno; Bergmann, Elliot; and Wood, Jack, 3,658,953.
- Ferlazzo, Natale: *See—*
Calcagno, Benedetto; Ghirga, Marcello; and Ferlazzo, Natale, 3,657,371.
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- Caporali, Giorgio; Ferlazzo, Natale; and Giordano, Nicola, 3,691,224.
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- Ferm, Richard L., to Chevron Research Company. Process for reducing water permeability of porous soils. 3,650,113, 3-21-72, Cl. 61-36.
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Prusinski, Richard C.; Fermani, Marcello; Torcolacci, Attilio; and Fermani, Luigi, 3,679,529.
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Prusinski, Richard C.; Fermani, Marcello; Torcolacci, Attilio; and Fermani, Luigi, 3,679,529.
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- Fernionics, Inc.: *See—*
Trussell, Harry B., 3,655,046.
- Fernald, Herbert B.; Gall, William; and Hay, Russell G., to Gulf Research & Development Company. Method for reduction of polymer formation in a process for converting ethylene to alpha olefins. 3,641,191, 2-8-72, Cl. 260-683.15.
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- Fernandez, Alberto Antonio, to Biochemical Procedures, Inc. Serum thyroxine anion exchange resin. 3,702,821, 11-14-72, Cl. 210-37.
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Ducamus, Jean Matital; and Fernandez, Claude-Jane, 3,676,709.
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Solomka, Monroe M.; and Fernandez, Gabriel Puente, 3,695,907.
- Fernandez, J. De Jesus. Door lock. 3,670,540, 6-20-72, Cl. 70-421.000.
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- Fernandez, Miguel A., to Phillips Fibers Corporation. Apparatus for melt spinning of synthetic filaments. 3,659,980, 5-2-72, Cl. 425-72.
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- Fernandez-Sein, Rafael, to Westinghouse Electric Corporation. Phase shifter for ultrahigh frequencies. 3,663,836, 5-16-72, Cl. 307-262.
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Duffner, Gordon; and Fernau, Robert D., 3,659,068.
- Fernberg, Paul Carl Roger, to ITW Limited. Fasteners. 3,653,096, 4-4-72, Cl. 24-16.
- Ferner, Jack D.: *See—*
Higgins, Irwin R.; and Ferner, Jack D., 3,677,937.
- Fernex, Michel: *See—*
Rheiner, Alfred, Jr.; Fernex, Michel; and Herrero, Jose, 3,674,872.
- Fernholz, Hans: *See—*
Hornig, Lothar; Fernholz, Hans; Schmidt, Hans-Joachim; Wunder, Friedrich; and Quadflieg, Therese, 3,658,888.
- Krekeler, Hans; Fernholz, Hans; and Jacobsen, Gunter, 3,637,818.
- Fernholz, Hans; and Neu, Hermann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of mixed anhydrides containing alkali chloride, of sorbic acid with palmitic or stearic acid and their use as preservatives for bread and pastry. 3,639,586, 2-1-72, Cl. 424-153.
- Fernholz, Hans; and Jacobsen, Gunter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of vinyl acetate. 3,641,113, 2-8-72, Cl. 260-497.
- Fernholz, Hans; and Wendt, Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of methyl or ethyl chloride from methyl or ethyl acetate. 3,657,365, 4-18-72, Cl. 260-652.
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- Fernkopf, Forrest D.; and Wehmeier, Gilbert E. Film strip cartridge. 3,697,159, 10-10-72, Cl. 352-128.000.
- Fernlund, Lars Martin Ingemar; and Kellstrom, Erik Magnus, to SKF Industrial Trading and Development Company N.V. Arrangement in spiral groove bearings. 3,663,074, 5-16-72, Cl. 308-9.
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Bourgraf, Elroy E.; and Self, Kenneth R., 3,644,944.
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- Bourgraf, Elroy E.; and Self, Kenneth R., 3,684,307.
- Fernseh G.m.b.H.: *See—*
Becker, Werner; and Horneff, Hans, 3,637,920.
- Brembach, Burkart; Eisinger, Alfred; Horneff, Hans; and Zahn, Heinrich, 3,660,595.
- Bura, Ernst, 3,644,979.
- Dillenburger, Wolfgang, 3,678,195.
- Flasche, Gunter, 3,675,062.
- Illetschko, Gerhard; and Peth, Horst, 3,646,254.
- Jarczyk, Heinrich, 3,637,413.
- Krause, Gerhard, 3,637,927.
- Krause, Gerhard, 3,637,936.
- Krause, Gerhard, 3,641,363.
- Krause, Gerhard, 3,666,880.
- Krause, Gerhard, 3,683,126.
- Legler, Ernst; and Kirchner, Karl, 3,665,220.
- Legler, Ernst, 3,674,918.
- Prochnow, Rudolf, 3,666,894.
- Schneider, Hans-Dieter, 3,651,248.
- Schneider, Hans-Dieter, 3,652,785.
- Schneider, Hans-Dieter, 3,655,913.
- Schneider, Hans-Dieter, 3,666,886.
- Schneider, Hans-Dieter, 3,681,520.
- Wellhausen, Hans; and Licht, Georg S., 3,654,566.
- Fernsch GmbH Darmstadt: *See—*
Wupper, Max E.; vonFelgel-Farnholz, Richard; and Gornott, Dietmar, 3,652,784.
- Fernsteuergeräte Kurt Oelsch KG: *See—*
Lieber, Hans-Wilhelm; and Kramer, Rolf, 3,669,868.
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Lieber, Hans-Wilhelm; and Kramer, Rolf, 3,701,010.
- Fernstrom, Gustaf Harry, to Atlas Copco Aktiebolag. Feed to driving tool having band held screws. 3,698,599, 10-17-72, Cl. 221-25.000.
- Ferodo Limited: *See—*
Clark, Eric; and Sumerling, Roger Adrian, 3,660,120.
- Ferog, Fehr & Reist AG: *See—*
Reist, Walter; and Kuratle, Hans Rudolf, 3,690,645.
- Feron, Denis Lucian: *See—*
Dierckx, Ludovicus Maria; Feron, Denis Lucian; and Guns, Karel, 3,682,623.
- Feroy, Arne. Controllable pitch propellers. 3,676,016, 7-11-72, Cl. 416-157.000.
- Ferplas Industries Limited: *See—*
Somann, Gert, 3,663,995.
- Ferrand, Andre; and Bonnefont, Michel, to Regie Nationale des Usines Renault. Constant-current heating devices for fixed window seals. 3,688,078, 8-29-72, Cl. 219-482.000.
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- Mariani, Brunello; Giuzzi, Alberto; and Tisselli, Eugenio, 3,657,216.
- Ferrant, Wolfgang, to Ransburg Electro-Coating Corporation. Spray coating apparatus. 3,700,168, 10-24-72, Cl. 239-3.000.
- Ferrante, Gerald R.: See—
Kravetz, Louis; and Ferrante, Gerald R., 3,682,583.
- Ferranti, Limited: See—
Collin, Frank Anthony James, 3,678,429.
Goodall, Laurence, 3,646,477.
Kennedy, Christopher John; Shepherd, Alexander Turnbull; and Thomas, Graham Isaac, 3,702,471.
Ogden, Harry; Laidlaw, Neil Rutherford; and Bradford, William Clarke, 3,639,766.
Pitches, Brian Edward; and Murray, Srobert Malcolm Stuart, 3,665,760.
Roberts, John Tudor, 3,680,206.
Shepherd, Alexander Turnbull; Smith, Laurence Philip; and Taylor, Lockhart, 3,648,030.
Thorp, William; and Jones, Charles Trevor, 3,662,312.
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Atherton, David L., 3,691,960.
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- Ferrara, Peter B., to United States of America, Army. Fiberoptic clearance light system. 3,701,498, 10-31-72, Cl. 244-17.110.
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Hurtig, Carl R.; Ferrari, Andres; and Khoury, Amin J., 3,640,267.
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Hepps, Michael B. L.; and Ferrari, Harry M., 3,647,623.
Kilp, Gerald R.; Bergstrom, Paul M.; and Ferrari, Harry M., 3,634,190.
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Land, Edwin; Ferrari, Leonard A.; Kagan, Sholly; and McCann, John J., 3,651,252.
- Ferrari, Leonard A., to Bell & Howell Company. Image display from continuously moving image carrier. 3,677,626, 7-18-72, Cl. 352-109.000.
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Ferrario, Luigi, 3,659,674.
- Ferrario, Bruno: See—
Della Porta, Paolo; and Ferrario, Bruno, 3,662,522.
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- Ferraro, Charles F., to FMC Corporation. Thixotropic agents for liquid resin systems. 3,632,545, 1-4-72, Cl. 260-30.6.
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- Ferraro, Natty P. Animal run leash guide assembly. 3,678,903, 7-25-72, Cl. 119-120.000.
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Ackermann, Jacob; Ferre, Franco; and Felice, Tetaz, 3,687,899.
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Ackermann, Jacob; Radici, Pierino; and Ferre, Franco, 3,692,876.
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Bruley, Maurice George Marie; and Ferret, Pierre, 3,707,679.
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Grimwood, Geoffrey L.; and Ferrier, Duncan C., 3,650,465.
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- Ferrell, Homer E., to Dresser Industries, Inc. High pressure sealing means. 3,690,682, 9-12-72, Cl. 277-102.000.
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Feight, Robert A.; Ferris, De Lacy F.; and Hunter, Frank B., 3,638,669.
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- Ferris, Ford, 10% to Bourne, David and 10% to Moore, Gail C. Rock crushing machine. 3,638,870, 2-1-72, Cl. 241-140.
- Ferris, Frank Donald. Dispensing for medicaments. 3,698,390, 10-17-72, Cl. 128-222.000.
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Lovelock, James E.; Davies, Albert J.; and Ferris, Frank R., 3,634,754.
- Ferris, Howard J.: See—
Ferris, Robert G.; and Ferris, Howard J., 3,665,671.
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- Ferris, Robert G.; deceased, to Starline, Inc. Sliding door track structure. 3,636,588, 1-25-72, Cl. 16-94.
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Borowski, Bernard J., 3,671,278.
Bryson, Robert O., 3,663,245.
Fuchsman, Charles H., 3,644,649.
Fuchsman, Charles H., 3,702,893.
Gobstein, Saul, 3,655,708.
Golownia, Robert F.; and Oswitch, Stanley, 3,700,617.
Gornall, Henry A., 3,649,327.
Hansen, Floyd R., 3,702,822.
Johnson, Gordon H., 3,692,735.
Lee, William S., 3,668,152.
Meek, William H., 3,637,723.
Meek, William H., 3,641,045.
Meek, William H., 3,666,808.
Whitehouse, Robert George, 3,669,426.
- Ferro Manufacturing Corporation: See—
Pickles, Joseph, 3,659,466.
Pickles, Joseph, 3,672,713.
Pickles, Joseph, 3,673,891.
Pickles, Joseph; and Fudala, Chester S., 3,674,238.
Pickles, Joseph, 3,706,163.
Pickles, Joseph, 3,706,236.
- Ferrofluidics Corporation: See—
Rosenweig, Ronald E.; and Resnick, Joseph, 3,648,269.
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- Ferrotec, Inc.: See—
Carr, Kenneth L., 3,673,518.
- Ferrox Iron Ltd.: See—
Nye, John David, 3,672,580.
Nye, John David, 3,698,647.
- Ferroxube Corporation: See—
Fisher, Robert D.; Jones, Ernest W.; and Grossi, Eugene A., 3,645,857.
Fisher, Robert D.; and Jones, Ernest W., 3,648,259.
Hagen, Thomas E., 3,648,060.
Hall, Ronald Edward; and Hulbert, Larry Norman, 3,676,848.

- Ferruccio Manzini: See—
Cresto, Arturo, 3,667,229.
- Ferruti, Paolo: See—
Natta, Giulio; Danusso, Ferdinando; and Ferruti, Paolo, 3,679,643.
- Ferry Cap & Set Screw Co., The: See—
Mac Guire, Andrew E., 3,693,650.
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Goebel, Charles V., Jr.; and Ferstandig, Louis L., 3,632,664.
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Maier, Gary H., 3,695,193.
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Cox, Duncan B., Jr.; and Fertig, Kenneth, 3,641,429.
Cox, Duncan B., Jr.; Fertig, Kenneth; and Fulton, Donald E., 3,667,031.
Cox, Duncan B., Jr.; and Fertig, Kenneth, 3,706,092.
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- Feser, Emmett John. Trailer snow sled. 3,653,677, 4-4-72, Cl. 280-8.
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Toth, Alex; and Fesmire, Robert H., 3,672,820.
- Fesperman, Jerome M.: See—
Mazzara, Vincent B.; and Fesperman, Jerome M., 3,677,941.
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- Fessler, Dyrall C.: See—
Pettit, George R.; Fessler, Dyrall C.; and Paull, Kenneth D., 3,682,895.
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Perga, Martin W.; DePalma, Ted V.; Fessler, LeRoy E.; and Brons, Albert J., 3,649,215.
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Schmid, Hans; Feldhoff, Heinrich; Martin, Wolfgang; Fessmann, Heinz; and Hahn, Edeleried, 3,640,063.
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Lorenz, Walter; Fest, Christa; Hammann, Ingeborg; Federmann, Manfred; Flucke, Winfried; and Stendel, Wilhelm, 3,689,648.
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Festner, Theodor; Litwin, Theodore J.; and Preuss, Hans W., 3,702,796.
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- Feterstein, Harold E.: See—
Clark, Sidney G.; and Feterstein, Harold E., 3,706,674.
- Feth, Georg: See—
Richter, Carl; Pluss, Kurt; and Feth, Georg, 3,703,537.
- Fetherston, Robert Theodore. Rack loading and unloading apparatus. 3,682,331, 8-8-72, Cl. 214-16.40r.
- Fetish, William H., Jr., to Uniroyal, Inc. Flexible connecting device. 3,669,471, 6-13-72, Cl. 285-49.000.
- Fetok GmbH: See—
Cremer, Gottfried; and Kraus, Joachim, 3,694,981.
- Fetrow, John W.: See—
Campbell, Hollis O.; Fetrow, John W.; and Mitchell, Kim L., 3,704,681.
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- Fettel, Bruce E.: See—
Shiley, Donald P.; and Fettel, Bruce E., 3,659,612.
Shiley, Donald P.; Fettel, Bruce E.; and Hardy, Kenneth L., 3,693,624.
- Fetter, John T.; and Olsson, Nils O., to International Harvester Company. Tilt wheel chain drive. 3,696,681, 10-10-72, Cl. 74-13.000.
- Fetterman, David S., to Atlantic Richfield Company. Preparation of high molecular weight epoxides. 3,649,648, 3-14-72, Cl. 260-348.5.
- Fetterolf, John S.: See—
Williams, James W., III; and Fetterolf, John S., 3,664,690.
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- Fetters, Harry H., to General Motors Corporation. Vehicle body door lock. 3,695,660, 10-3-72, Cl. 292-216.000.
- Fetters, Lewis J.: See—
Morton, Maurice; and Fetters, Lewis J., 3,663,634.
- Fetters, Robert A.: See—
Davis, Gerald T.; and Fetters, Robert A., 3,649,357.
Davis, Gerald T.; and Fetters, Robert A., 3,653,945.
- Fettes, Robert Clarke: See—
Fellmann, Robert Paul; and Fettes, Robert Clarke, 3,655,826.
- Fetting, Fritz; Bockhorn, Henning; and Herberitz, Hans-Adolf, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for carrying out endothermic gas reactions. 3,661,494, 5-9-72, Cl. 431-4.
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- Fettweis, Alfred Leo Maria, to International Standard Electric Corporation. Resonant transfer circuits. 3,641,271, 2-8-72, Cl. 179-15.
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Reth, Johannes A.; and Fettweis, Winifried H., 3,679,806.
- Fetty, Joan H.: See—
Nielsen, Richard H.; Nielsen, Edith M.; and Fetty, Joan H., 3,688,357.
- Fetzer, Fred: See—
Johnson, Richard T.; and Fetzer, Fred, 3,648,648.
- Fetzer, Fred; and Miranda, Ronald P., to Bettcher Industries, Inc. Meat tenderizer. 3,654,664, 4-11-72, Cl. 17-25.
- Fetzer, Hans: See—
Donaldson, William K.; Wilke, Werner; and Fetzer, Hans, 3,634,568.
- Fetzer, Maurice C.: See—
Mohondro, William R.; and Fetzer, Maurice C., 3,694,272.
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- Feucht, Jacob E., to Dresser Industries, Inc. Hydraulic drifter. 3,701,386, 10-31-72, Cl. 173-78.000.
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- Feuge, Reuben O.: See—
Lovegren, Norman V.; Gray, Marie S.; and Feuge, Reuben O., 3,663,479.
- Feugere, Francis: See—
Quesnel, Guy; and Feugere, Francis, 3,701,487.
- Feugnet, Jean-Pierre: See—
Barbier, Jean-Pierre; and Feugnet, Jean-Pierre, 3,672,056.
- Feuillat, Pierre; and Lyard, Joseph, to Societe Nouvelle de Roulements. Cages for roller-bearings. 3,644,006, 2-22-72, Cl. 308-213.
- Feustel, Wolfgang: See—
Scharfen, Hans; and Feustel, Wolfgang, 3,682,492.

- Fevre, Charles M., to Societe Stephanoise de Constructions Mechanique. Tubular stranding machines. 3,693,337, 9-26-72, Cl. 57-58.320.
- Fewell, Kenneth J.: See—
Brady, Jack C.; and Fewell, Kenneth J., 3,696,894.
- Fewell, Larry K.: See—
Eltzroth, Richard E.; and Fewell, Larry K., 3,689,983.
- Fex, Hans Jacob: See—
Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; Kneip, Paul Hans Otto Josef; and Rohte, Oskar Adolf, 3,637,660.
- Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; and Rohte, Oskar Adolf, 3,682,973.
- Fey, Maurice G.: See—
Wolf, Charles B.; and Fey, Maurice G., 3,705,975.
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- Fiat Soc. Per Azioni Azienda OM Stabilimento di Milano: See—
Pittaluga, Gennaro, 3,651,891.
- Fiat Societa per Azioni: See—
Baldwin, Philip S., 3,633,367.
- Baldwin, Philip Sidney, 3,651,456.
- Bertinetti, Emilio Alberto; and Lampredi, Aurelio, 3,651,705.
- Di Salvo, Salvatore; and Collazuol, Mario, 3,686,497.
- Franzi, Riccardo, 3,635,241.
- Goodacre, Charles Lindsay, 3,651,638.
- Lampredi, Aurelio, 3,696,685.
- Michellone, Gian Carlo; and Palazzetti, Mario, 3,684,238.
- Michellone, Giancarlo; and Palazzetti, Mario, 3,706,478.
- Michellone, Giancarlo; Palazzetti, Mario; and Tabasso, Giovanni, 3,707,313.
- Palazzetti, Mario, 3,660,790.
- Palazzetti, Mario; and Cavalierin, Bruno, 3,705,573.
- Panelli, Pio, 3,652,112.
- Parodi, Luciano; and Ghia, Giancarlo, 3,666,231.
- Pedrani, Giulio, 3,683,783.
- Torazza, Giovanni; and Giacosa, Dante, 3,641,988.
- Torazza, Giovanni, 3,685,504.
- Torazza, Giovanni, 3,695,243.
- Fibco, Inc.: See—
Fitch, John C., 3,643,924.
- Fiber Controls Corporation: See—
Lytton, Kenneth G.; Hullett, David F.; and Miller, George J., 3,700,091.
- Wise, Cecil S., 3,649,082.
- Wise, Cecil S., 3,671,078.
- Wise, Dan S.; and Sosebee, James L., 3,651,877.
- Wise, Dan S., 3,659,279.
- Fiber Industries, Inc.: See—
Binford, Jack C.; Ethridge, Frederick A.; and Talbot, James R., 3,654,677.
- Binford, Jack C.; Ethridge, Frederick A.; and Talbot, James R., 3,703,753.
- Davis, Gerald W.; Farrow, Gerald; and Ravenna, Nestor A., 3,636,131.
- Davis, Gerald W.; and Stackman, Robert W., 3,706,712.
- Doerr, Marvin L.; and Vizurraga, Luis R., 3,635,899.
- Gibbon, John D., 3,695,025.
- Gray, Jack N., 3,654,055.
- Maycock, William E., 3,697,479.
- Paliyenko, Paul; and Beier, Werner E., 3,640,670.
- Portus, Bruce W., 3,679,635.
- Shemdin, Bejar Hazin, 3,652,753.
- Simons, Frank Holmes, 3,707,522.
- Steinmiller, William George, 3,651,633.
- Steinmiller, William George, 3,704,160.
- Taylor, Michael P., 3,695,026.
- Williams, David M., 3,638,414.
- Fiber-Photics, Inc.: See—
Keller, Ronald F., 3,638,013.
- Fiberdome Incorporated: See—
Wollin, Roger W.; and Smiley, Larry L., 3,631,646.
- Fiberglas Canada Limited: See—
Gladney, Kurt P.; and Rao, Ramesh P., 3,692,507.
- Rado, Ramesh P., 3,663,249.
- Fiberglass Resources Corporation: See—
Sheedy, Richard E., 3,663,335.
- Fiberglass Structures: See—
Barrett, James R., 3,695,010.
- Fibre Glass-Evercoat Co., Inc.: See—
Linder, Joseph, 3,664,508.
- Fibre Products Laboratories, Inc.: See—
Goldman, Maurice A., 3,654,060.
- Fibre-Optics Industries, Inc.: See—
Aurilio, Giuseppe; Aurilio, Giovanni; and Faust, Valentine T., Jr. (said Aurilio, Giuseppe and Aurilio, Giovanni assor to), 3,680,378.
- Fibreboard Corporation: See—
Baker, David R., 3,706,410.
- Foster, Thomas W.; and Schafer, George, 3,662,945.
- Le Febvre, Alfred B.; Masch, Helmut E. W.; Robert, Louis; and Morse, Hugh H., 3,648,573.
- Masch, Helmut E. W., 3,701,525.
- Fibreboard Corporation, mesne: See—
Smith, James A., 3,675,897.
- Warwick, Charles Herbert, 3,642,119.
- Fibreglass Limited: See—
Crabtree, John Dinsdale; Grundy, Kenneth Henry; and Johnson, Alan Edward, 3,663,500.
- Hall, Michael Edgar; and Negus, Malcolm, 3,637,549.
- Lomas, Eric Ellis, 3,668,964.
- Fibrostanpa S.r.l.: See—
Frezzotti, Armando, 3,695,996.
- Fichet-Bauche: See—
Gerard, Jean, 3,686,439.
- Fichtel & Sachs AG: See—
Dantele, Johann, 3,696,902.
- Keller, Helmut; Rottmann, Franz; Zickler, Helmut; and Klauke, Dieter, 3,652,190.
- Kraus, Helmut; and Fadler, Kurt, 3,669,233.
- Lorcher, Harry; and Spreitzer, Franz, 3,655,017.
- Lutz, Dieter, 3,702,195.
- Riese, Hans Walter, 3,666,062.
- Riese, Hans-Walter; and Friedrich, Gerhard, 3,672,478.
- Schulz, Horst, 3,659,688.
- Schulz, Horst, 3,701,292.
- Schwerdhofer, Hans Joachim, 3,701,333.
- Schwerdhofer, Hans; and Schulz, Horst, 3,661,034.
- Schwerdhofer, Hans Joachim, 3,648,547.
- Schwerdhofer, Hans Joachim, 3,648,809.
- Schwerdhofer, Hans Joachim, 3,695,729.
- Schwerdhofer, Hans Joachim, 3,696,690.
- Schwerdhofer, Hans Joachim; and Wolf, Gerhard Max, 3,701,546.
- Spichala, Paul, 3,640,361.
- Spies, Helmut, 3,645,580.
- Vers, Rudi, 3,701,197.
- Wossner, Felix, 3,661,236.
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- Fichter, Barry S., to American Standard, Inc. Pilot valve operated fluidic valve. 3,680,573, 8-1-72, Cl. 137-81.500.
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- Fickes, Robert E.: See—

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Lampson, George P.; Tytell, Alfred A.; Field, Arthur K.; and Hilleman, Maurice R., 3,666,646.
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Lummus, James L.; and Field, Leroy J., 3,703,467.
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Field, Anthony Gerard, 3,640,023.
- Field, Michael Frank: See—
Wood, John Frederick Barry; and Field, Michael Frank, 3,648,507.
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Daniels, Wiley E.; and Field, Nathan D., 3,635,914.
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Derujinsky, Ruth; and Field, Patricia, 3,646,896.
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- Field, Richard H., to Lasermation, Inc., mesne. Adjustable mirror assembly. 3,642,353, 2-15-72, Cl. 350-310.
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Liberti, Felix P.; and Field, Stanley, 3,666,459.
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- Fielding, Francis L., to International Telephone and Telegraph Corporation. Non-store cursor writing on a storage tube. 3,670,200, 6-13-72, Cl. 315-12.000.

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Field, William J., 3,701,515.
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Celada, Juan, 3,681,049.
- Fierstien, Gary N.; and Talvensaari, Paul A., to Motorola, Inc. Power amplifier including plurality of push-pull amplifier sections coupled by ferrite matching transformers. 3,652,948, 3-28-72, Cl. 330-15.
- Fierston, Stanley A.; and Nelson, Bruce K., to United States of America, Army. Video pulse converter for the track signal processor. 3,646,554, 2-29-72, Cl. 343-5.
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- Feiertag, Bruce A., 3,664,561.
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- Figge, Erwin E.; and Ho, Edward J., to Bell & Howell Company. Photographic system for step-motion projector. 3,674,348, 7-4-72, Cl. 352-84.000.
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- Figge, Irving E., to United States of America, Army. Article and method of quasi-isotropic care filaments. 3,645,833, 2-29-72, Cl. 161-57.
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- Figge, Irving E.; and Karp, Bernard L., to United States of America, Army. Method of making a quasi-isotropic sandwich core. 3,689,345, 9-5-72, Cl. 156-219.000.
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Islam, Rafiqul; Garnish, Sidney George; Figov, Murray; and Mustacchi, Henry, 3,639,421.
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Hogg, Walter R.; and Figueroa, David R., 3,670,150.
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Endres, Horst; Fikentscher, Rolf; Maurer, Walter; Scharf, Emil; and Soenksen, Uwe, 3,642,572.
- Feinauer, Anton; Ruettiger, Wilhelm; Fikentscher, Rolf; and Pitteroff, Walter, 3,651,139.
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Amberg, Stephen W.; Doherty, Thomas E.; and Fikert, Jacob J., 3,632,252.
- Fikes, Alan L.: *See—*
Freeze, James T.; and Fikes, Alan L., 3,655,616.
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Kamb, Roy A.; and Fikse, Tyman H., 3,703,271.
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Ladenzon, Boris Yakovlevich; and Filatov, Rafail Alexandrovich, 3,656,404.
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Arnold, Benjamin Harry; Fildes, Robert Anthony; and Gilbert, David Arthur, 3,658,649.
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Levy, Eliezer, 3,667,098.
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Kasatkin, Yuri Ivanovich; Filimonov, Alexandr Vasilievich; Erlykov, Nikolai Sergeevich; Chikirda, Sergei Ivanovich; Strashinsky, Vadim Konstantinovich; and Zeldin, Vladimir Pinsokhovich, 3,681,833.
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Andoniev, Sergei Mikhailovich; Gerber, Leonid Moiseevich; Kasyanov, Grigory Ivanovich; Kudinov, Gennady Alexandrovich; Kutsykovich, Dorina Borisovna; Nissenbaum, Tamara Izovna; Raikovskiy, Yuri Borisovich; Somchenko, Mikhail; and Filipiev, Oleg, 3,693,708.
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Andoniev, Sergei Mikhailovich; Kutsykovich, Dorina Borisovna; Gerber, Leonid Moiseevich; Kudinov, Gennady Alexandrovich; Kasyanov, Grigory Ivanovich; Nissenbaum, Tamara Izovna; Raikovskiy, Yuri Borisovich; Somchenko, Mikhail; and Filipiev, Oleg Vladimirovich, 3,692,103.
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Andoniev, Sergei Mikhailovich; Alexandrov, Nikolai Nikitovich; Klochnev, Nikolai Ivanovich; Kulikov, Vasily Ivanovich; and Filipiev, Oleg Vladimirovich, 3,690,633.
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Foster, John A.; and Filipowicz, Carl A., 3,695,481.
- Filipowicz, Leon: *See—*
Clarke, Michael Raymond; and Filipowicz, Leon, 3,640,931.
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- Filippi, Jean-Paul: *See—*
Zucca, Marc Edouard; and Filippi, Jean-Paul, 3,664,123.
- Filippov, Gennady Alexeevich: *See—*
Deich, Mikhail Efimovich; Filippov, Gennady Alexeevich; Sobolev, Sergei Petrovich; and Povarov, Oleg Alexeevich, 3,652,182.
- Filippov, Vladimir Vasilievich: *See—*
Andrusenko, Petr Ivanovich; Dolganov, Kint Evgenievich; Kovalev, Alexandr Ivanovich; Berezovsky, Pavel Iosipovich; Dmitrenko, Vladimir Ilich; Shukshin, Nikolai Pavlovich; Gutarevich, Yuri Feodosievich; Kislov, Vladimir Grigorievich; Chevtsev, Andrei Vasilievich; Koshman, Eduard Ivanovich; and Filippov, Vladimir Vasilievich, 3,676,023.
- Fill Metro, to Canada Packers Limited. Loin puller. 3,685,095, 8-22-72, Cl. 17-1.000.
- Filley Enterprises, Inc.: *See—*
Raney, Gerrel B., 3,636,742.
- Fillingham, Stephen Harvey: *See—*
Robinson, Brian; and Fillingham, Stephen Harvey, 3,677,693.
- Fillion, Stanley H., to Dresser Industries, Inc. Combined body bolster center filler and center plate for railway cars. 3,664,269, 5-23-72, Cl. 105-199.00c.
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Heuner, Robert Charles; and Fillmore, Richard Plumb, 3,702,943.
- Filonenko, Yuri Yakovlevich: *See—*
Makarov, Gleb Nikolaevich; Zhitov, Boris Nikolaevich; Zagorets, Anatoly Mikhailovich; Korolev, Yuri Germanovich; Syskov, Konstantin Ivanovich; Filonenko, Yuri Yakovlevich; Dvorin, Semen Semenovich; Lerner, Ruvim Zinovievich;

Mustafin, Fuat Akhtemovich; Semnov, Alexandr Semenovich; Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich, 3,667,746.

Filotti, Traian Mircea: *See—*
Bucur, Victor; Filotti, Traian Mircea; Georgescu, Eugenia; Mazare, Theodora; Ghejan, Ion; Zirna, Ion; Popescu, Elena Lygia; and Ioszt, Toma, 3,657,153.

Georgescu, Eugenia; Ghejan, Ion; Bucur, Victor; Mazare, Theodora; Zirna, Ion; Popescu, Elena Lygia; Budu, Adrian; Olteanu, Bujor; Filotti, Traian Mircea; and Barbul, Marius Aurel, 3,707,509.

Filotti, Traian-Mircea: *See—*
Georgescu, Eugenia; Ghejan, Ion; Bugur, Victor; Zirna, Ion; Mazare, Theodora; Popescu, Elena-Lygia; Olteanu, Bujor; Marculescu, Nicolae; Filotti, Traian-Mircea; Barbul, Marius-Aurel; and Calin, Ion, 3,673,109.

Filper Corporation: *See—*
Kilner, George E., 3,679,049.

Meissner, Konrad E.; McClelland, Etheridge R.; and Kilner, George E., 3,643,717.

Meissner, Konrad E.; and McClelland, Etheridge R., 3,675,695.

Meissner, Konrad Emil, 3,662,902.

Riley, Lloyd D., 3,650,083.

Riley, Lloyd D., 3,705,475.

Filter Dynamics International, Inc.: *See—*
Braun, Harvey A.; and Roberts, Richard J., 3,633,750.

Filter Finder, Inc.: *See—*
Shelton, Clark R., 3,658,421.

Filter, Harold E.; and Stevens, Don L., to Dow Chemical Company. The. Self-extinguishing solid propellant formulations. 3,632,458, 1-4-72, Cl. 149-19.

Filterwerk Mann & Hummel GmbH: *See—*
Baer, Herbert J.; Hense, Kurt R.; and Hofferer, Richard, 3,680,706.

Hofferer, Richard, 3,653,366.

Filtres Vernay: *See—*
Lagoutte, Pierre, 3,667,604.

Filtrox-Maschinenbau AG: *See—*
Strub, Fritz, 3,637,079.

Filz, Charles J., to Ivan Sorvall Inc. Swinging bucket centrifuge rotor. 3,666,171, 5-30-72, Cl. 233-26.000.

Filz, William F., to North Pacific Cannery & Packers, Inc. Blanching corn by internal fluid injection. 3,707,384, 12-26-72, Cl. 99-103.000.

Filzungsverwaltungs-Gesellschaft mit beschränkter Haftung, mesne: *See—*
Schuster, Wilhelm August, 3,664,905.

Fimecor Fine Mecanique S.A.: *See—*
Freiburghaus, Bernard, 3,633,444.

Fimml, Hans. Lift-producing means in winged airplane. 3,633,848, 1-11-72, Cl. 244-12.

Financial Federation, Inc.: *See—*
Foutz, Terrence K., 3,658,239.

Finanz und Kompensations Anstalt Vaduz (Liechtenstein): *See—*
Berti, Giancarlo, 3,639,432.

Finazzo, Anthony: *See—*
Carroll, John Robert; Kiniry, John Michael; and Finazzo, Anthony, 3,670,438.

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Finch, Albert M. T., Jr., to Shell Oil Company. Diene-nitrile rubbers. 3,700,637, 10-24-72, Cl. 260-83.300.

Finch, Charles R.; and Kuntzsch, Jerold E., to Dow Chemical Company. The. Process for the production of alkenyl aromatic polymers containing a reinforcing polymer therein. 3,660,535, 5-2-72, Cl. 260-880.

Finch, Dan M. Light control material. 3,671,101, 6-20-72, Cl. 350-109.

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Finch, Lester M.; and Anthony, Andy J., to United States of America, Atomic Energy Commission. Hydraulic hold-down for nuclear reactor fuel assembly. 3,666,624, 5-30-72, Cl. 176-64.000.

Finch, Neville: *See—*
Gschwend, Heinz Werner; and Finch, Neville, 3,637,738.

Finch, Neville, to Ciba-Geigy Corporation. PGE oximes. 3,657,328, 4-18-72, Cl. 260-514.

Finch, Neville, to Ciba-Geigy Corporation. 3-Hydroxycyclopentyl-alkanoic acids. 3,678,092, 7-18-72, Cl. 260-468.00r.

Finch, Richard W.; and Nichols, Willard Alan, to Olin Corporation. Method of chromatographic analyses using siloxy carboranyl partitioning phases. 3,660,966, 5-9-72, Cl. 55-67.

Finch, Robert A.: *See—*
Peterson, Richard H.; Finch, Robert A.; and Oltman, Bruce A., 3,683,096.

Finch, Robert E.: *See*—
Hull, Jerry D.; and Finch, Robert E., 3,637,031.

Finch, Theron R.: *See*—
Sykes, Donald J.; Kroll, Harry; and Finch, Theron R., 3,705,806.

Finch, Thomas Ellwood, to General Electric Company. Temperature controlled soldering iron. 3,699,306, 10-17-72, Cl. 219-241.000.

Finch, William L. Flare gun. 3,698,317, 10-17-72, Cl. 102-37.400.

Finch, William M. Fishing lure. 3,653,142, 4-4-72, Cl. 43-42.06.

Fincher, Curtis L.: *See*—
Birnbaum, Milton; and Fincher, Curtis L., 3,648,192.

Fincher, James R.: *See*—
Sale, Oliver H., Jr.; and Fincher, James R., 3,685,229.

Fincher, Ray. Portable carpet lift. 3,638,815, 2-1-72, Cl. 214-390.

Finck, Patricia A., to Colgate-Palmolive Company. Automatic dishwashing compositions. 3,701,735, 10-31-72, Cl. 252-99.000.

Finckh, Hermann, Metalltuch- und Maschinenfabrik: *See*—
Reiker, Adolf; and Boklen, Rudolf, 3,636,989.

Finckh, Hermann, Metalltuch- und Maschinenfabrik: *See*—
Holz, Emil, 3,677,402.

Fincor, Inc.: *See*—
Bucek, Jiri B.; and Shultz, James R., 3,678,355.

F.I.N.D. Inc.: *See*—
Dunn, John P., 3,635,340.

Findeisen, Bernd: *See*—
Schiefer, Peter; and Findeisen, Bernd, 3,667,296.

Findeisen, Heinz H., to Honeywell Inc. Apparatus for correcting and indicating errors in redundantly recorded information. 3,633,162, 1-4-72, Cl. 340-146.1.

Findeisen, Heinz H.; Kallmeyer, James D.; Sokol David G.; Stein, James H.; Thomas, Thomas R.; and Bowers, Jack R., to Sangamo Electric Company. Keyboard to tape data input preparation unit. 3,676,854, 7-11-72, Cl. 340-172.500.

Findeisen, Kurt; Braden, Rudolf; and Holtschmidt, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of halopyrimidines. 3,682,916, 8-8-72, Cl. 260-251.00r.

Findeklee, Heinz, to Linke-Hofmann-Busch Waggon-Fahrzeug-Maschinen GmbH. Multi-step entry particularly for vehicles. 3,651,767, 3-28-72, Cl. 105-448.

Finder, Earl E., to Ecodyne Corporation. Composition and method. 3,668,132, 6-6-72, Cl. 252-80.000.

Findewirth, Wolfgang; Irmischer, Helmut; Kessler, Gunther; and Leubner, Gunther, to VEB Wirkmaschinenbau Karl-Marx Stadt Kombinat für Wirk- und Strickmaschinenbauerzeugnisse. Fabric takeup for flat knitting machines. 3,651,669, 3-28-72, Cl. 66-149.

Findlay, Campbell; and McQuade, Thomas, to Burroughs Corporation. Typebar for printing uniform density characters. 3,661,077, 5-9-72, Cl. 101-93.

Findlay, Campbell, to Burroughs Corporation. Uniform ribbon feed apparatus. 3,677,486, 7-18-72, Cl. 242-67.400.

Findlay, David; and Fowler, Arnold L., to United States of America, Army, mesne. Equal impulse firearm. 3,672,255, 6-27-72, Cl. 89-42.00r.

Findlay, Hugh T.: *See*—
Elbert, Donald L.; Findlay, Hugh T.; and Horne, William H., 3,682,683.

Findlay, Hugh T.; and Stone, Jerry F., to International Business Machines Corporation. Multi colored unitary self supported polymer matrix transfer medium. 3,681,186, 8-1-72, Cl. 161-166.000.

Findlay, Hugh T.; Fuller, Sterritt R., Jr.; and Stone, Jerry F., to International Business Machines Corporation. High impact ribbons. 3,682,764, 8-8-72, Cl. 161-160.000.

Findlay, John S., to Microdyne, Inc. Incremental data processing sprocketed tape deck. 3,688,058, 8-29-72, Cl. 179-100.200.

Findlay, Peter M.; and Phillips, Raymond Henry, to Bentley Engineering Company Limited. The Latch needle knitting machines. 3,631,690, 1-4-72, Cl. 66-111.

Findley, Anthony W.; and Rogers, Jesse M., to Anchor-Wate Company. Coating apparatus for tubular objects. 3,670,696, 6-20-72, Cl. 118-320.000.

Findley, Harold J.; and Meier, James L., to Whittaker Corporation. Adhesive composition. 3,640,941, 2-8-72, Cl. 260-33.6.

Findley, Thomas W.: *See*—
Shone, Robert L.; and Findley, Thomas W., 3,704,256.

Findus Produits S.A.: *See*—
Akesson, Yngve Reinhold; and Karlsson, Eve Torkel Gilbert, 3,658,132.

Fine, Harry C., 2nd: *See*—
Roberts, John F., 3,681,589.

Fine, Leonard Wolfe; Matsuda, Ken; and Photis, James Mitchell, to American Cyanamid Company. Catalytic hydration of nitriles. 3,699,164, 10-17-72, Cl. 260-561.00n.

Fine, Max M. Liquid purifying system. 3,674,650, 7-4-72, Cl. 202-176.000.

Fine, Richard A., to Norton Company. Removal of surface from boron carbide composite armor. 3,702,593, 11-14-72, Cl. 109-80.000.

Fine, Samuel: *See*—
Whetstone, Albert L.; and Fine, Samuel, 3,648,277.

Finelli, Anthony F., to Goodyear Tire & Rubber Company, The. Polyurethane composition and its use to form polystyrene laminates. 3,640,938, 2-8-72, Cl. 260-32.8.

Finelli, Thomas M.: *See*—
Stiff, Bernard G. E.; and Finelli, Thomas M., 3,675,980.

Fineran, Dennis E.; and Fendley, Samuel J., to United States of America, Navy. High frequency analog-to-digital converter. 3,701,144, 10-24-72, Cl. 340-347.0ad.

Fineran, William J., to International Business Machines Corporation. Module handling apparatus. 3,662,881, 5-16-72, Cl. 209-73.000.

Finestone, Arnold B.: *See*—
Niechwiadowicz, Michal; and Finestone, Arnold B., 3,632,288.

Schrage, Albert; and Finestone, Arnold B., 3,696,069.

Finestone, Arnold B.; Miller, Roger; and Niechwiadowicz, Michal, to Foster Grant Co., Inc. Process of making a general purpose expandable alkenyl aromatic polymer containing di-alkyl polysiloxane internally. 3,635,852, 1-18-72, Cl. 260-2.5.

Finestone, Arnold B.; and Niechwiadowicz, Michal, to Foster Grant Co., Inc. Process of making expandable polymeric styrene particles. 3,657,162, 4-18-72, Cl. 260-2.5.

Finet, Bernard: *See*—
Gradeff, Peter S.; and Finet, Bernard, 3,661,978.

Fingado, Gustav: *See*—
Gordon, Harry W.; and Fingado, Gustav, 3,660,242.

Finger, Carl; Selinko, George J.; and Yeager, Stanley A., Jr., to Motorola, Inc. Housing for electronic apparatus including multi-function handle mechanism. 3,634,732, 1-11-72, Cl. 317-120.

Finger, Eugene P.: *See*—
Beusman, Curtis C.; and Finger, Eugene P., 3,657,647.

Marwell, Edward M.; and Finger, Eugene P., 3,706,036.

Finger, Eugene P., to Curtis Instruments, Inc. Coulometer controlled variable frequency generator. 3,704,431, 11-28-72, Cl. 331-177.00r.

Finger, Eugene P., to Curtis Instruments, Inc. Capacitive coulometer improvements. 3,704,432, 11-28-72, Cl. 331-183.000.

Finger, John F., to Sioux Steam Cleaner Corporation. Damping and auxiliary pumping apparatus. 3,692,433, 9-19-72, Cl. 417-382.000.

Finger, Julie. Modular frame structure and connector. 3,632,147, 1-4-72, Cl. 287-189.36.

Finì, Giuseppe: *See*—
Zoli, Armando; Zoli, Luigi; and Finì, Giuseppe, 3,702,056.

Finical, Thomas N., Jr.: *See*—
Smith, Calvin S., Jr., 3,640,850.

Finishing Equipment and Supply Co., Inc.: *See*—
Sabatka, Winston E.; Bloomquist, Wilburn M.; and Reinke, Raymond W., 3,643,670.

Finizen Lures, Inc.: *See*—
Baud, Roger C., 3,665,634.

Fink, Aaron J. Disposable culture assembly. 3,632,478, 1-4-72, Cl. 195-139.

Fink, Alfred: *See*—
Haas, Herbert G.; Munk, Edmund; Fink, Alfred; and Klink, Erich, 3,663,137.

Haas, Herbert G.; Munk, Edmund; and Fink, Alfred, 3,665,065.

Fink, Anton. Height gauge. 3,672,620, 6-27-72, Cl. 248-125.000.

Fink, Arno: *See*—
Muller, Alfred; and Fink, Arno, 3,679,401.

Fink, Bernard. Manually retractably curb feeder. 3,648,646, 3-14-72, Cl. 116-28.

Fink, Frank J., to Imperial Manufacturing and Engineering Company. Automated system including indexing mechanism. 3,668,772, 6-13-72, Cl. 29-563.000.

Fink, Frank J., to Imperial Manufacturing and Engineering Company. Method of installing insert ring in pipe unions. 3,685,131, 8-22-72, Cl. 29-417.000.

Fink, Hans-Ferd; Koerner, Gotz; Rossmay, Gerd; and Schmidt, Gunter, to Goldschmidt, Th., A.-G. Fire extinguishing foams containing finely dispersed silica. 3,655,554, 4-11-72, Cl. 252-3.

Fink, Herbert: *See*—
Arndt, Peter Joseph; Fink, Herbert; Moroff, Helmut; Determann, Hermine; and Grimm, Reinhard, 3,663,462.

Fink, Irving E. Pressure casting devices for casting hollow products. 3,698,470, 10-17-72, Cl. 164-281.000.

Fink, Kenneth W., to Steelcraft Manufacturing Company, The. Snap-in jamb anchor. 3,636,672, 1-25-72, Cl. 52-214.

Fink, Leon, Jr.; and Fricker, David C., to ECC Corporation. Speed responsive motor starting system. 3,657,621, 4-18-72, Cl. 318-221.

Fink, Richard R. Camming strain relief bushing. 3,689,014, 9-5-72, Cl. 248-56.000.

Fink, Robert H.; and Palm, Eugene J., to United States of America, Army. Rocket motor and method. 3,677,010, 7-18-72, Cl. 60-220.000.

Fink, Roy W.: *See*—
Acton, Hugh C.; and Fink, Roy W., 3,695,693.

Fink, Walter. Aromatic o-triorganosilyl-diorganoamino compounds and process. 3,641,088, 2-8-72, Cl. 260-448.2.

Fink, Werner: *See*—
Schlitz, Erwin; Fink, Werner; and Werner, Gunther, 3,652,136.

Schlitz, Erwin; and Fink, Werner, 3,656,816.

Fink, Werner; Schlitz, Erwin; and Werner, Gunther, to International Telephone and Telegraph Corporation. Antiskid control circuit. 3,652,137, 3-28-72, Cl. 303-21.

Fink, Willi: *See*—
Eibofner, Eugen; Fink, Willi; and Farian, Gerhard, 3,672,060.

Fink, William C., to General Motors Corporation. Seven-state resistance sensing supervisory system utilizing single pole-double throw switches. 3,702,473, 11-7-72, Cl. 340-409.000.

Fink, William C.; and Stewart, William R., to General Motors Corporation. Seven state resistance sensing supervisory system. 3,702,474, 11-7-72, Cl. 340-409.000.

Finkbinder, Roy R., to Barber-Colman Company. Adjustable depth immersion temperature sensing device. 3,679,490, 7-25-72, Cl. 136-221.000.

Finke, Eugene W.: *See*—
Weiland, Norman R.; and Finke, Eugene W., 3,650,451.

Finke, Eugene W., to Monarch Marking System Company, The. Tag attacher. 3,650,452, 3-21-72, Cl. 227-67.

Finke, Theodore R., to Euclid Products Co., Inc., The. Apparatus for cutting strip material in variable lengths. 3,695,133, 10-3-72, Cl. 83-204.000.

Finkel, Gilbert: *See*—
Klug, Sigmund L.; Finkel, Gilbert; and Sherain, Monroe B., 3,669,674.

Finkel, Henry, to Twinpak Ltd. Toy. 3,653,148, 4-4-72, Cl. 46-60.

Finkelstein, Arthur: *See*—
Pernick, Louis, 3,643,470.

Finkelstein, Ehud, to Merck & Co., Inc. Process for separating an acid from an amide. 3,678,060, 7-18-72, Cl. 260-295.50a.

Finkelstein, Leo; and Blissel, John J., to United States of America, Army. Gasoline thickened with latex composition. 3,639,108, 2-1-72, Cl. 44-7.

Finkelstein, Manuel: *See*—
Ross, Sidney D.; and Finkelstein, Manuel, 3,684,932.

Ross, Sidney D.; Dunkl, Franz S.; and Finkelstein, Manuel, 3,702,426.

Finkenzeller, Johann; and Schmidt, Artur. X-ray diagnostic device having a patient chair and an X-ray source whose relative orientation is constant. 3,655,967, 4-11-72, Cl. 250-50.

Finkhauser, Dieter; and Friese, Andre, to Siemens Aktiengesellschaft. Call re-routing system for telephone installations. 3,673,341, 6-27-72, Cl. 179-18.0be.

Finkl, A., & Sons Company: *See*—
Finkl, Charles W., 3,635,696.

Finkl, Charles W., to Finkl, A., & Sons Company. Treatment of molten metal using arc heat and vacuum. 3,635,696, 1-18-72, Cl. 75-11.

Finkle, Eugene D.; and Patterson, James A. Tennis racket for developing tennis swing. 3,679,205, 7-25-72, Cl. 273-29.00a.

Finkle, Jack. Image intensifier device and method for receiving radiant energy images for conversion and intensification. 3,663,821, 5-16-72, Cl. 250-213.

Finkmann, Hans-Ulrich: *See*—
Beckmann, Gunter; and Finkmann, Hans-Ulrich, 3,686,388.

Finlay, Joseph B.; and Hagman, John F., to Du Pont de Nemours, E. I., and Company. Polychloroprene sol-gel blends. 3,655,827, 4-11-72, Cl. 260-890.

Finlay, Walter L.; Nayar, Harbhajan S.; and Hay, Donald A., to Copper Range Company. Production of dispersion hardened copper sheet from metal powders by roll compacting. 3,632,697, 1-4-72, Cl. 264-5.

Finlay, Walter L.; and Bomberger, Howard B., Jr., to Crucible Inc. Method for melting titanium alloys. 3,645,727, 2-29-72, Cl. 75-175.5.

Finlay, Walter L.; Fisher, Henry J.; and Hay, Donald A., to Copper Range Company. Copper base composition. 3,677,745, 7-18-72, Cl. 75-153.000.

Finlayson, Francis D.: *See*—
Robinson, Charles W.; Merklin, Kenneth E.; and Finlayson, Francis D., 3,693,795.

Finley, Gilbert Ralph, to Lucas, Joseph, (Industries) Limited. Vehicle windshield wiping mechanisms. 3,686,706, 8-29-72, Cl. 15-250.169.

Finley, John G. Supported releasable polyolefin films. 3,690,909, 9-12-72, Cl. 117-6.000.

Finley, John W., to United States of America, Agriculture. Kynurenic acid derivatives as sweetening agents. 3,702,255, 11-7-72, Cl. 99-141.00a.

Finley, Joseph H.: *See*—
Blumbergs, John H.; Finley, Joseph H.; and Rizzo, John J., 3,637,609.

Finley, Lloyd D.: *See*—
Sieringer, Harold F.; Finley, Lloyd D.; and Sary, William R., 3,635,437.

Finley, Robert L.; and Sansom, Raymond E., to Diventco, Inc. Plunger operated rotatable collet. 3,643,969, 2-22-72, Cl. 279-4.

Finley, Ronald K.; Langlois, Donald J.; and Nicholson, Robert H., to HCA Food Corporation. Process of clam evisceration. 3,659,315, 5-2-72, Cl. 146-222.

Finley, Tom D., to United States of America, National Aeronautics and Space Administration. Split range transducer. 3,638,114, 1-25-72, Cl. 324-115.

Finn, Arthur F. Aquatic recreation device. 3,664,290, 5-23-72, Cl. 115-20.

Finn, Frederick George, to Post Office, The. Power operated wire wrapping tools. 3,695,309, 10-3-72, Cl. 140-12.00a.

Finn, George P., Jr., to Floturn Inc. Method and apparatus for reconditioning a drum of a reproducing machine. 3,680,341, 8-1-72, Cl. 72-125.000.

Finn Industries Division, Potlatch Forests, Inc., The: *See*—
Sellers, Thomas J., 3,656,612.

Finn, John B.; and Hudecek, Carl J. Electrically conductive surface. 3,704,110, 11-28-72, Cl. 65-32.000.

Finn, John J., 1/2 to Glenn Electric Heater Corporation. Electric heater. 3,691,347, 9-12-72, Cl. 219-535.000.

Finn, Steven G. Electronic lock and alarm system. 3,659,154, 4-25-72, Cl. 317-134.

Finnegan, Edward D.; Harper, Leonard Roy; Mitrofanoff, Nicholas S.; and Slutman, Allen C., to International Business Machines Corporation. Central processing unit in which all data flow passes through a single arithmetic and logic unit. 3,701,105, 10-24-72, Cl. 340-172.500.

Finnegan, Patrick J.: *See*—
De Sipio, Richard G.; and Finnegan, Patrick J., 3,636,329.

Finnegan, Walter D., to Kaiser Aluminum & Chemical Corporation. Roll bonding an aluminum-ferrous composite with grooved rolls. 3,639,974, 2-8-72, Cl. 29-493.

Finnegan, Walter D., to Kaiser Aluminum & Chemical Corporation. Electrolytic reduction cell. 3,650,941, 3-21-72, Cl. 204-243.

Finnegan, Walter D., to Kaiser Aluminum & Chemical Corporation. Steel-to-aluminum transition piece. 3,664,816, 5-23-72, Cl. 29-196.200.

Finnemore, Frederick M.: *See*—
Dietz, Milton S.; and Finnemore, Frederick M., 3,678,832.

Finnerty, John Gerard, Sr. Outdoor illuminated signs. 3,680,237, 8-1-72, Cl. 40-130.00m.

Finney, Charles N. Picture-ironing board combination. 3,641,947, 2-15-72, Cl. 108-38.

Finney, Jack R.: *See*—
Schuyler, Richard C.; Schuyler, Jacques G.; Griffin, Margaret E.; Tobias, William E.; and Finney, Jack R., 3,643,395.

Finney, James Harold. Levelling system for semi end dump trucks. 3,640,578, 2-8-72, Cl. 298-17.

Finney, Karl F.: *See*—
Pomeranz, Yeshajahu; and Finney, Karl F., 3,679,433.

Finney, Peter E., to Nitrochill Limited. Cryogenic filling valve. 3,645,291, 2-29-72, Cl. 137-588.

Finney, Philip F., to Thermo-Couple Products Company, Inc. Metal cast cooking unit having a temperature sensitive control sensor. 3,701,884, 10-31-72, Cl. 219-449.000.

Finney, Phillip F., to Thermo-Couple Products Company, Inc. Temperature sensitive control sensor. 3,650,024, 3-21-72, Cl. 29-615.

Finney, Robert R.: *See*—
Hauffe, William L.; and Finney, Robert R., 3,684,242.

Fino, Michele; and Giussani, Giorgio. Equipment for longitudinally cutting tree logs. 3,648,743, 3-14-72, Cl. 143-39.

Finster, Leslie Phillip: *See*—
Trefzger, Edwin W.; Crimmins, Bruce; Plunkett, Raymond A.; Petkovsek, Richard J.; and Finster, Leslie Phillip, 3,637,164.

Finsterwalder, Klemens: *See*—
Finsterwalder, Ulrich; and Finsterwalder, Klemens, 3,662,656.

Finsterwalder, Ulrich; Finsterwalder, Klemens; and Stefaniak, Hans, 3,673,624.

Finsterwalder, Ulrich; and Finsterwalder, Klemens, to Dyckerhoff & Widmann Kommanditgesellschaft. Multi-section bridge supporting structure of steel or reinforced concrete having supports centrally of the cross-section of the structure. 3,662,656, 5-16-72, Cl. 94-1.000.

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Fintel, William Achard; Heighton, Harold Hubbard; and Rossman, John Guise, Jr., to Du Pont de Nemours, E. I., and Company. Process and apparatus for quenching melt spun filaments. 3,705,227, 12-5-72, Cl. 264-176.00f.

Finucane, Thomas P.; and Capasso, Philip J., to General Foods Corporation. Low calorie frozen desserts. 3,702,768, 11-14-72, Cl. 99-136.000.

Fiocca, Emanuel Richard. Garment hanger for suits. 3,651,999, 3-28-72, Cl. 223-88.

Fiocca, Louis L. Solid-state power supply system for rotating anode X-ray tubes. 3,641,408, 2-8-72, Cl. 318-227.

Fiocco, Robert J., to Esso Research and Engineering Company. Coalescer cartridge and coalescer for oily water. 3,645,398, 2-29-72, Cl. 210-73.

Fiocco, Robert J.; and Wilson, Edward L., to Esso Research and Engineering Company. Coal liquefaction solids removal. 3,687,837, 8-29-72, Cl. 208-8.000.

Fioravanti, Alain J. F. R.: *See*—

- Fioravanti, Jean; Carriere, Robert Lucien; Thibault, Paul; and Fioravanti, Alain J. F. R., 3,667,416.
- Fioravanti, Jean; Carriere, Robert Lucien; Thibault, Paul; and Fioravanti, Alain J. F. R. Devices for cutting a channel in a layer of ice, and an ice-breaker ship equipped with said devices. 3,667,416, 6-6-72, Cl. 114-42.000.
- Fioravanti, Leonardo, to Carrozzeria Pininfarina Societa per Azioni. Electric energy distribution systems. 3,697,767, 10-10-72, Cl. 307-10.00r.
- Fiore, Anthony N.; and McCarron, John D., to Spacetac Incorporated. Pulse generating circuit for producing pulses of amplitude which is a multiple of the amplitude of the source voltage. 3,648,181, 3-7-72, Cl. 328-59.
- Fiore, Jack C.; and Tennerstedt, M. Richard, to Motorola, Inc. Multi-band memory assembly. 3,704,424, 11-28-72, Cl. 325-470.000.
- Fiore, John, to Rex Chainbelt Inc., mesne. Crack detection method and system therefor. 3,691,820, 9-19-72, Cl. 73-40.700.
- Fiore, John M., to Bio-Analytical Laboratories, Inc. Speculum instrument and isolated light means therefor. 3,675,641, 7-11-72, Cl. 28-6.000.
- Fiore, Joseph P., to Zenith Radio Corporation. Manufacture of shadow mask color picture tube. 3,676,914, 7-18-72, Cl. 29-25.160.
- Fiorentino, Antonio F. Remote radio winch control unit. 3,699,578, 10-17-72, Cl. 343-225.000.
- Fiorentino, Arthur A., to Thomas & Betts Corporation. Coupling adaptor. 3,649,998, 3-21-72, Cl. 24-73.
- Fiorentino, Arthur A., to Thomas & Betts Corporation. Strap support. 3,672,615, 6-27-72, Cl. 248-74.0pb.
- Fiorenza, Giorgio: See—
Cortona, Alessandro; Musso, Pietro; Saltini, Fabrizio; and Fiorenza, Giorgio, 3,641,317.
- Fioretti, Donald W. Nestable receptacle and container. 3,664,538, 5-23-72, Cl. 220-4.
- Fioretti, Warren H.: See—
Jacoby, Ian H.; Giordano, Anthony J.; and Fioretti, Warren H., 3,648,240.
- Fiorino, Benjamin C.: See—
Andresen, Rolf; Fiorino, Benjamin C.; and Niccore, Fred W., 3,670,304.
- Fiorucci, Georges P. Arrangement provided with a photo-cell and controlling the detecting means and the stop motion in a loom upon breaking of a thread in the warping, weaving and knitting systems. 3,677,307, 7-18-72, Cl. 139-353.000.
- Fire Control Engineering Company: See—
Ferguson, Herman V., 3,682,388.
- Lindsay, Charles H., 3,647,002.
- Fire Devices, Inc.: See—
Gabb, William J., 3,676,570.
- Fire Task Force Innovations, Inc.: See—
McMillan, Clyde H., 3,684,192.
- Firestein, Harry; and Tyas, Karl, to Hand, Louis, Incorporated. Automatic pleating machine. 3,661,103, 5-9-72, Cl. 112-134.
- Firestein, Harry; and Tyas, Karl, to Hand, Louis, Incorporated. Cloth transfer device. 3,672,313, 6-27-72, Cl. 112-121.150.
- Firestein, Harry; and Tyas, Karl, to Hand, Louis, Incorporated. Cloth stacking device. 3,672,314, 6-27-72, Cl. 112-121.290.
- Firester, Arthur H., to United States of America, Army. Optical up-converter. 3,646,358, 2-29-72, Cl. 307-88.3.
- Firester, Arthur Herbert: See—
Hannan, William James; Russell, John Patrick; and Firester, Arthur Herbert, 3,703,407.
- Firestone, Alexander H.; Fisk, Robert W.; and Kennedy, Kurt D., to Air Reduction Company, Incorporated. Heating system for electron beam furnace. 3,655,902, 4-11-72, Cl. 13-31.
- Firestone, Floyd A. Airplane with spatial panorama. 3,643,899, 2-22-72, Cl. 244-118.
- Firestone, Jerome, to Saxton Products, Inc. Telephone connector. 3,660,797, 5-2-72, Cl. 339-29.00r.
- Firestone, Jerome, to Saxton Products, Inc. Telephone adapter. 3,668,324, 6-6-72, Cl. 179-1.0pc.
- Firestone, Max. Crossbow cocking device. 3,670,711, 6-20-72, Cl. 124-25.000.
- Firestone, Raymond A.: See—
Christensen, Burton G.; and Firestone, Raymond A., 3,632,691.
- Firestone, Raymond A.; and Glamkowski, Edward J., to Merck & Co., Inc. Method for the preparation of (cis-1,2-epoxypropyl) phosphonic acid and derivatives thereof. 3,632,609, 1-4-72, Cl. 260-348.
- Firestone, Raymond A., to Merck & Co., Inc. Process for preparing (±) (cis-1,2-epoxypropyl) phosphonic acid esters and salts. 3,634,463, 1-11-72, Cl. 260-348.
- Firestone, Raymond A., to Merck & Co., Inc. Preparation of (cis-1,2-epoxypropyl) phosphonates from substituted imino compounds. 3,637,763, 1-25-72, Cl. 260-348.
- Firestone, Raymond A., to Merck & Co., Inc. Method for the preparation of (cis-1,2-epoxypropyl)-phosphonic acid and derivatives. 3,637,765, 1-25-72, Cl. 260-348.
- Firestone, Raymond A., to Merck & Co., Inc. Method for the preparation of (cis-1,2-epoxypropyl) phosphonic acid derivatives. 3,641,065, 2-8-72, Cl. 260-348.
- Firestone, Raymond A., to Merck & Co., Inc. Resolution of (±) (cis-1,2-epoxypropyl)-phosphonic acid. 3,660,432, 5-2-72, Cl. 260-348.
- Firestone, Raymond A., to Merck & Co., Inc. Esters and amides of (diazomethyl)phosphonic acid. 3,668,197, 6-6-72, Cl. 260-239.0aa.
- Firestone, Raymond A., to Merck & Co., Inc. Method for the preparation of (cis-1,2-epoxypropyl)phosphonic acid products. 3,678,078, 7-18-72, Cl. 260-348.00r.
- Firestone, Raymond A., to Merck & Co., Inc. Method of preparing (cis-1,2-epoxypropyl)phosphonic acid esters. 3,679,711, 7-25-72, Cl. 260-348.00r.
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- Firestone Tire & Rubber Company, The: See—
Beckman, Joseph A.; Hunt, Jerry Donald; and Kay, Edward Leo, 3,649,587.
- Beckman, Joseph A., 3,654,214.
- Beneze, Heinz Wilhelm, 3,645,655.
- Beneze, Heinz Wilhelm, 3,686,389.
- Beneze, Heinz Wilhelm, 3,695,808.
- Bouton, Thomas; and Futamura, Shingo, 3,686,158.
- Boutsicaris, Stephen P., 3,668,185.
- Brey, Wilhelm; Hostetler, William; Loeffler, Earl Ferdinand; Kolm, Hubert Ernest; and Elder, Fred Grove, 3,700,526.
- Cheng, Tai Chun; and Halasa, Adel F., 3,635,922.
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- Cheng, Tai Chun; Antkowiak, Thomas A.; and Halasa, Adel F., 3,644,313.
- Cheng, Tai Chun; and Halasa, Adel F., 3,642,734.
- Claxton, William E., 3,668,380.
- De Wald, Raymond C., 3,655,553.
- Georges, Louis W., 3,642,553.
- Halasa, Adel F., 3,632,658.
- Halasa, Adel F., 3,639,367.
- Halasa, Adel F., 3,644,324.
- Halasa, Adel F., 3,657,206.
- Halasa, Adel F.; and Schroeder, Ervin E., 3,661,873.
- Halasa, Adel F., 3,674,760.
- Johnson, Charles R., 3,681,304.
- Johnson, Charles R.; and Moosavian, Seid H., 3,683,511.
- Kay, Edward L.; and Beckman, Joseph A., 3,655,599.
- Kay, Edward Leo; Hunt, Jerry Donald; and Spitz, Robert Paul, 3,647,739.
- Keckler, Norman F., 3,635,932.
- Kibler, Richard W., 3,663,491.
- Lohr, Delmar Frederick, Jr.; Crane, Grant; and Kay, Edward L., 3,673,269.
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- Mallan, Jean Margaret; and Kay, Edward Leo, 3,660,433.
- McCammon, William L.; and Bishop, George E., 3,684,458.
- McGillvary, Daniel R., Jr., 3,701,374.
- Oberster, Arthur E.; and Schroeder, Ervin E., 3,657,170.
- Schmidt, Ernst, 3,673,133.
- Schonfeld, Steven Edward, 3,705,881.
- Smith, Sydney; Hunt, Jerry Donald; and Esler, Richard Brother-ton, 3,706,222.
- Smith, Walter J.; and Bukey, John R., 3,660,557.
- Tazewell, Joseph H., 3,644,280.
- Thacker, Bernard L., Jr., 3,673,648.
- Wakefield, Lynn B.; and Foster, Frederick C., 3,632,563.
- Wakefield, Lynn B., 3,676,396.
- Webb, Frederick J.; and Tate, David P., 3,647,774.
- Werner, Byron H.; and Hayes, Robert A., 3,660,532.
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Brookman, Robert S.; Grib, Stephen; and Pearson, Dale S., 3,661,618.
- Fircy, Joseph C. Engine exhaust gas separating devices. 3,670,502, 6-20-72, Cl. 60-324.000.
- Firkert, Gunter, to VEB Elektromat. Fine positioning system. 3,644,814, 2-22-72, Cl. 318-592.
- Firmenich & Cie: See—
Eschenmoser, Albert; Felix, Dorothea; and Stoll, Max, 3,649,694.
- Schulte-Elte, Karl-Heinrich, 3,644,430.
- Thomas, Alan Francis, 3,654,309.
- Winter, Max; Gautschi, Fritz; Flament, Ivon; Stoll, Max; and Irving, Goldman M., 3,702,253.
- Firmenich Incorporated: See—
Honey, Raymond; and Perkins, James Frank, 3,666,496.
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- Firnkas, Sepp, to Omniform Incorporated. Watertight seal connection for prefabricated building panel seams. 3,691,708, 9-19-72, Cl. 52-228.000.
- Firsell, Vladlen Borisovich: See—

- Erlykin, Ivan Ivanovich; Vasin, Alexandr Ivanovich; Korotkov, Mikhail Mikhailovich; Maximov, Vadim Yakovlevich; Matveev, Ivan Ivanovich; Kadyshch, Vladimir Alexandrovich; Volkov, Valentin Vladimirovich; Firsell, Vladlen Borisovich; Bulatkin, Vladimir Dmitriyevich; Malekhanov, Igor Evgenievich; and Suldin, Stanislav Nikolaevich, 3,693,570.
- First City National Bank of Houston, mesne as Trustee of the Cal-lery, Francis A., 1968 Trust: See—
Compton, Robert G.; Richmond, Ray S.; and Tracy, Robert A., 3,691,373.
- First Dynamics, Inc.: See—
Chang, Henry M., 3,679,093.
- First National Bank in Peru, mesne: See—
Roebuck, Malcolm J., 3,643,530.
- First National Bank of Atlanta, The: See—
Brown, Warren F., 3,640,279.
- First Pennsylvania Bank and Trust Co.: See—
Eaton, Bruce G., 3,671,892.
- First Pennsylvania Banking and Trust Co.: See—
Stanley, Paul H., 3,635,426.
- Firth, David. Variable pitch sheave. 3,680,404, 8-1-72, Cl. 74-230.17c.
- Firth, David. Means for mounting sheaves, etc. 3,682,505, 8-8-72, Cl. 287-52.060.
- Firth, Jack Graham; and Jones, Thomas Alwyn, to National Research Development Corporation. Infra-red gas detectors. 3,702,397, 11-7-72, Cl. 250-43.50r.
- Firth, Jay A.; and Power, Carlton. Hoof repair device. 3,682,179, 8-8-72, Cl. 128-336.000.
- Firth, William Charles, Jr.; and Frank, Simon, to American Cyanamid Company. Certain nitrogen-fluorine compounds and methods of preparation. 3,699,094, 10-17-72, Cl. 260-221.000.
- Fisans Limited: See—
Saggers, David Thomas, 3,676,545.
- Fisch, Paul. Apparatus to confine and recover oil spillage at sea. 3,631,679, 1-4-72, Cl. 61-1.
- Fisch, Willy: See—
Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,655,817.
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- Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,678,009.
- Schmid, Rolf; Bucher, Ingrid; Fisch, Willy; and Batzer, Hans, 3,641,194.
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- Fischbach, Alfred. Moving mechanism for injection molding machines or the like. 3,642,407, 2-15-72, Cl. 425-242.
- Fischbach, Ronald. Retainer cap for a starter pinion. 3,640,148, 2-8-72, Cl. 74-434.
- Fischbacher, Hermann, to Fischer, Georg, AG. Conveyor roll arrangement. 3,669,243, 6-13-72, Cl. 198-127.00r.
- Fischbein, Irwin W.: See—
Fish, Frank H.; Fischbein, Irwin W.; and Slater, Mandel E., 3,658,742.
- Fischbein, Irwin W.; Galligan, John D.; Schwartz, Anthony M.; and Youngquist, William S., to Gillette Company, The. Razor blades. 3,638,308, 2-1-72, Cl. 30-346.53.
- Fischbein, Irwin W.; Flaherty, Francis E.; McLaughlin, Edward P.; and Willett, Fred T., to Gillette Company, The. Razor blades and processes for the preparation thereof. 3,652,342, 3-28-72, Cl. 148-635.
- Fischbein, Irwin W.; Alexander, Ben H.; and Sastri, Aiyaswami S., to Gillette Company, The. Sputter coating of razor blade with a beta-tungsten type alloy. 3,682,795, 8-8-72, Cl. 204-192.000.
- Fischell, Robert E.: See—
Tossmann, Barry E.; Mobley, Frederick F.; and Fischell, Robert E., 3,637,169.
- Fischell, Robert E., to United States of America, Navy, mesne. Surface with low absorptivity to emissivity ratio. 3,671,286, 6-20-72, Cl. 117-333.000.
- Fischer & Fischer G.m.b.H., mesne: See—
Klosa, Josef, 3,673,185.
- Fischer & Porter Company: See—
Friedman, Milton, 3,651,452.
- Friedman, Milton, 3,693,144.
- Futamura, John, 3,686,557.
- Grauer, Oscar H., 3,700,577.
- Hermanns, Henry, 3,664,191.
- Ketelsen, Broder; Kiene, Wilfried; and Grosch, Hermann, 3,690,172.
- Kiene, Wilfried, 3,688,575.
- Mannitz, Elmer D.; and Hermanns, Henry M., 3,695,104.
- Metzger, Harold W., 3,691,835.
- Riester, Hubert; and Futamura, Jun, 3,688,176.
- Fischer, Adolf: See—
Becke, Friedrich; Fischer, Adolf; Hagen, Helmut; and Scheuerer, Guenter, 3,668,260.
- Becke, Friedrich; Fischer, Adolf; and Hagen, Helmut, 3,707,364.
- Kiefer, Hans; and Fischer, Adolf, 3,691,234.
- Kiehls, Karl; Koenig, Karl-Heinz; and Fischer, Adolf, 3,681,425.
- Kiehls, Karl; Koenig, Karl-Heinz; and Fischer, Adolf, 3,687,997.
- Koenig, Karl-Heinz; and Fischer, Adolf, 3,636,079.
- Koenig, Karl-Heinz; Steinbrunn, Gustav; Windel, Hermann; and Fischer, Adolf, 3,671,571.
- Koenig, Karl-Heinz; Maschke, Artur; and Fischer, Adolf, 3,679,678.
- Osieka, Hans; Fischer, Adolf; and Kiefer, Hans Eugen, 3,644,112.
- Reicheneder, Franz; Kropp, Rudolf; and Fischer, Adolf, 3,652,562.
- Reicheneder, Franz; Kropp, Rudolf; and Fischer, Adolf, 3,697,522.
- Scheuermann, Horst; and Fischer, Adolf, 3,656,932.
- Zschocke, Albrecht; and Fischer, Adolf, 3,632,599.
- Zschocke, Albrecht; and Fischer, Adolf, 3,634,445.
- Zschocke, Albrecht; Rohr, Wolfgang; and Fischer, Adolf, 3,671,540.
- Zschocke, Albrecht; Zeeh, Bernd; and Fischer, Adolf, 3,696,115.
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- Fischer, Adolf; Koenig, Karl-Heinz; Steinbrunn, Gustav; and Zschocke, Albrecht, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. N-Phenyl-N'-ester urea derivatives. 3,671,586, 6-20-72, Cl. 260-545.00r.
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- Fischer, Alfred; and Strawser, Terry M., to Tenneco Chemicals Inc. Oil-soluble mixed copper soap products. 3,701,729, 10-31-72, Cl. 252-1.000.
- Fischer, Alfred, to Tenneco Chemicals, Inc. Stable solutions of calcium salts. 3,705,852, 12-12-72, Cl. 252-1.000.
- Fischer, Alvin G. Hand tools. 3,672,419, 6-27-72, Cl. 145-65.000.
- Fischer, Artur: See—
Fischer, Artur; and Muller, Jean-Nicolas (said Muller assor. to said), 3,678,925.
- Mutz, Wolfgang; Killgus, Theodor; and Fischer, Artur, 3,643,865.
- Fischer, Artur. Toy building kit. 3,645,035, 2-29-72, Cl. 46-17.
- Fischer, Artur. Connecting arrangement for use in a toy assembly kit. 3,659,376, 5-2-72, Cl. 46-31.
- Fischer, Artur. Method of making structural element. 3,676,918, 7-18-72, Cl. 29-453.000.
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- Fischer, Charles F.: See—
Denzler, Rudolph E.; and Fischer, Charles F., 3,667,919.
- Fischer, Charles G.: See—
Benson, Ernest J.; and Fischer, Charles G., 3,668,821.
- Fischer, Conrad: See—
Duba, Erwin; and Fischer, Conrad, 3,672,311.
- Fischer, David; Kohler, Rudolf; Roos, Hugo; and Merker, Joachim, to Hüller Rottenburg Gesellschaft mit beschränkter Haftung. Chucking device for machine tools. 3,685,845, 8-22-72, Cl. 279-5.000.
- Fischer, Edgar: See—
Kampe, Klaus-Dieter; and Fischer, Edgar, 3,639,440.
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- Kampe, Klaus-Dieter; and Fischer, Edgar, 3,644,596.
- Kuhkamp, Alfred; Fischer, Edgar; and Nolken, Ernst, 3,634,343.
- Fischer, Edgar; and Hafner, Karl-Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for homogeneously coloring copolymers of trioxane. 3,637,575, 1-25-72, Cl. 260-37.
- Fischer, Eduard F.; Farnworth, Edwin; and Christensen, Elmer, to Black Clawson Company, The. Method of and apparatus for storing a fluent material. 3,661,283, 5-9-72, Cl. 214-152.000.
- Fischer, Edward; and Trickey, William J., to Superior Pipe Specialties Company. Sprinkler head riser mechanism. 3,684,179, 8-15-72, Cl. 239-203.000.
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Krakauer, Daniel; and Fischer, Edward M., 3,633,810.
- Fischer, Emanuel M. Window draft preventing device. 3,661,195, 5-9-72, Cl. 160-373.

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Sutter, Hermann, 3,643,663.
- Fischer, Georg, AG: See—
Bruhwiler, Othmar; and Egloff, Anton, 3,678,967.
Corbach, Klaus, 3,672,834.
Fischbacher, Hermann, 3,669,243.
Sole, Ramon; and Othmar, Bruhwiler, 3,638,686.
- Fischer, Georg, AG-Brugg: See—
Bruhwiler, Othmar, 3,683,971.
- Fischer, Georg, Aktiengesellschaft: See—
Alt, Anton, 3,666,449.
Feisel, Armin, 3,703,113.
Marzy, Otto, 3,670,608.
- Fischer, George, to Cluett, Peabody & Co., Inc. Apparatus for the compressive preshrinkage of fabrics. 3,694,870, 10-3-72, Cl. 26-18.600.
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Sole, Ramon, 3,632,062.
- Fischer, Gerd; Straub, Dieter; and Voigt, Heinz Eberhard, to Licentia Patent-Verwaltungs-G.m.b.H. Logic module connected to act as flipflop. 3,678,301, 7-18-72, Cl. 307-289.000.
- Fischer, Hannes; and Kuhlkamp, Alfred, to Chemische Werke Albert. Process for electrodeposition. 3,657,092, 4-18-72, Cl. 204-181.
- Fischer, Hans, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft Zweigniederlassung Nurnberg. Dismountable cylinder for reciprocable piston machines. 3,648,572, 3-14-72, Cl. 92-169.
- Fischer, Hans. Centering labyrinth seal. 3,682,489, 8-8-72, Cl. 277-53.000.
- Fischer, Hans Jurgen; and Behrmann, Georg, to Faun-Werke Kommunalfahrzeuge und Lastkraftwagen Karl Schmidt. Portable platforms, with roller means installed on their upper side, for the handling and transporting of freight. 3,690,485, 9-12-72, Cl. 214-310.00.
- Fischer, Harry C., to Allied Chemical Corporation. Open cycle ammonia refrigeration system including a catalytic ammonia burner. 3,685,310, 8-22-72, Cl. 62-114.000.
- Fischer, Harry F., Jr.; and Lang, John N., to All-State Industries, Inc. Roof with gravel stop. 3,680,269, 8-1-72, Cl. 52-94.000.
- Fischer, Hartmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of 1,1-dihydroperfluoroalkanoils. 3,663,629, 5-16-72, Cl. 260-633.
- Fischer, Heinrich R., to Hurth, Carl, Maschinen- und Zahnradfabrik. Pressure-operated device for clamping of workpieces on gear processing machines. 3,664,227, 5-23-72, Cl. 90-1.
- Fischer, Heinz G.: See—
Moore, Harold R.; and Fischer, Heinz G., 3,673,297.
- Fischer, Helmut. Instrument for measuring the thickness of layers with radio-active nucleides. 3,705,305, 12-5-72, Cl. 250-83.300.
- Fischer, Herbert Corliss; and Fischer, Herbert Corliss, Jr. Prestressed tubular article. 3,631,897, 1-4-72, Cl. 138-141.
- Fischer, Herbert Corliss, Jr.: See—
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- Fischer, Hermann; Heil, Eduard; Swoboda, Johann; and Thoma, Richard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Removing unreacted monomers from acrylonitrile polymer solutions and concentration of the solutions. 3,634,300, 1-11-72, Cl. 260-32.6.
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Gereth, Reinhard; and Fischer, Horst, 3,686,036.
- Fischer, Jack, to Advertising Metal Display Co. Drawer slide assembly. 3,701,577, 10-31-72, Cl. 312-339.000.
- Fischer, James R.: See—
Sweeney, Keith H.; and Fischer, James R., 3,640,821.
- Fischer, Janos: See—
Rakoczi, Jozsef; Mikite, Gyula; Petocz, Lujza; Fischer, Janos; Grasser, Katalin; and Kosoczy, Iboya, 3,641,039.
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- Fischer, Nathan A.: See—
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- Fischer, Raymond C., to International Harvester Company. Implement carrier. 3,654,999, 4-11-72, Cl. 172-311.
- Fischer, Raymond G., to International Harvester Company. Duplex implement hitch. 3,675,945, 7-11-72, Cl. 280-411.00c.
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- Fischer, Richard, to Braun Aktiengesellschaft. Shearing head for dry shaver. 3,673,683, 7-4-72, Cl. 30-34.100.
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- Fischer, Roman; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of carboxylic esters of β -formylcrotyl alcohol. 3,639,437, 2-1-72, Cl. 260-405.6.
- Fischer, Ronald S. Air neutralization. 3,654,534, 4-4-72, Cl. 317-262.
- Fischer, Stefan; and Fischer, Rainer. Mold synchronizing apparatus. 3,647,341, 3-7-72, Cl. 425-326.
- Fischer, Stefan. Apparatus for making hollow articles. 3,663,143, 5-16-72, Cl. 18-5.
- Fischer, Stefan. Apparatus for the manufacture of hollow objects of thermoplastic material. 3,685,943, 8-22-72, Cl. 425-326.000.
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- Fischer, Vincent A., to Bodine Electric Company. Overload protection system for DC motors. 3,646,396, 2-29-72, Cl. 317-13.
- Fischer, Wilhelm Anton, to Dynamit Nobel Aktiengesellschaft. Metallurgical furnaces or vessels. 3,687,437, 8-29-72, Cl. 266-43.000.
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- Fischman, Martin, to GTE Laboratories Incorporated. Sawtooth current generator. 3,678,331, 7-18-72, Cl. 315-27.0td.
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- Randall, Bill R.; and Gulsby, Jerry G., 3,702,541.
- Fish, Frank H.; and McLaughlin, Edward P., to Gillette Company, The. Deposition apparatus. 3,652,443, 3-28-72, Cl. 204-298.
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- Fish, Ray F., to Electro Adapter Inc. Adapter for electrical cable. 3,659,251, 4-25-72, Cl. 339-143.00r.
- Fish, William M., to Aluminum Company of America. Extraction of alumina from bauxite. 3,681,013, 8-1-72, Cl. 23-143.000.
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- Fishbein, Meyer. Orthopedic single-blade bone cutter. 3,633,583, 1-11-72, Cl. 128-305.
- Fishbein, Meyer. Surgical expansive reamer for hip socket. 3,702,611, 11-14-72, Cl. 128-305.000.
- Fishburne, Francis B. Apparatus for packing loose compressible material in rectangular containers. 3,641,734, 2-15-72, Cl. 53-124.
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- Fisher, Albert W., Jr., to McKee Baking Company. Apparatus for forming Swiss rolls. 3,704,664, 12-5-72, Cl. 99-450.200.
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Kane, Robert R.; and Glaser, Charles J., Jr., 3,695,576.
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Seaman, Wendell L.; and Etter, William A., 3,631,893.
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- Fisher, Edmund A.: See—
Curington, Wayne C.; Fisher, Edmund A.; and Taylor, William M., 3,688,840.
- Fisher, Ervin; and Warshawsky, Jay, to Fuller Company. Dust collector. 3,653,188, 4-4-72, Cl. 55-283.
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- Weston, Murray, 3,666,143.
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Fisher, William Frederick, 3,701,377.
Graham, Eric Purdy, 3,701,378.
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- Fisher, George M. C., to Bell Telephone Laboratories, Incorporated. Method of achieving surface refractive index changes in a glass light guide element. 3,647,406, 3-7-72, Cl. 65-30.
- Fisher, George Myles Cordell; Froehlich, Fritz Edgar; Levin, William; McDowell, Blake, III; and O'Boyle, Leonard Edward, to Bell Telephone Laboratories, Incorporated. Telewriting system. 3,706,850, 12-19-72, Cl. 178-18.000.
- Fisher, Guy Norwood, to Kraftco Corporation. Collapsible dispenser with dispensing cap. 3,666,145, 5-30-72, Cl. 222-107.
- Fisher, Harold M.: See—
Mitchell, Maurice M., Jr.; Fisher, Harold M.; and Tomezsko, Edward S., 3,655,792.
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Finlay, Walter L.; Fisher, Henry J.; and Hay, Donald A., 3,677,745.
- Fisher, Ian Stuart: See—
Davis, Anthony Charles; and Fisher, Ian Stuart, 3,679,541.
- Fisher, Ivan E., to Owatonna Manufacturing Company, Inc. Reel construction with hexagonal spiders for mounting both bats and time bars. 3,698,166, 10-17-72, Cl. 56-220.000.
- Fisher, Jack M.: See—
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- Fisher, John A., to U.S. Divers Co. Adjustable breathing gas pressure regulator. 3,698,425, 10-17-72, Cl. 137-505.250.
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- Fisher, John M. Escape slide positioning tube. 3,669,217, 6-13-72, Cl. 182-48.000.
- Fisher, Leslie George, to G.K.N. Birfield Transmissions Limited. Sealed type universal joint. 3,646,778, 3-7-72, Cl. 64-32.
- Fisher, Mahlon B., to United States of America, Air Force. Electronic lens for a photoelectron multiplier. 3,641,352, 2-8-72, Cl. 250-207.
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Grant, John; and Fisher, Martin John, 3,661,163.
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Hoff, Dale R.; and Fisher, Michael H., 3,646,049.
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- Fisher, Michael H., to Merck & Co., Inc. Imidazo [1,2-a] pyridines. 3,701,780, 10-31-72, Cl. 260-290.800.
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Henson, Glen E.; and Fisher, Milton W., 3,640,530.
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Jacobson, Allan I.; and Fisher, Philip J. M., 3,645,058.

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Krepps, James Edgar, Jr.; Chamberlain, Meredith K.; and Fisher, Robert D., 3,679,979.
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Felice, Frank T.; Fisher, Robert E.; and Jacobs, Louis J., 3,637,412.
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Casaday, William M.; and Fisher, Robert L., 3,667,011.
- Fisher, Robert L., to Elkhart Welding and Boiler Works, Inc. Modular home transport vehicle. 3,697,098, 10-10-72, Cl. 280-415.000.
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- Fisher, Sidney L., to Spider Staging, Inc. Suspended staging hold-in apparatus. 3,661,226, 5-9-72, Cl. 182-142.
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Nolte, William C.; and Tyler, Burtis M., 3,691,642.
- Fishken Products Co.: *See—*
Tishken, Paul, 3,653,244.
- Tishken, Paul, 3,653,245.
- Fishlove, H., & Co.: *See—*
Mc Millan, William A., 3,635,469.
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Baron, Thomas Douglas; and Fishwick, Brian, 3,637,651.
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- Fisk, Dale E., to International Business Machines Corporation. Two-way communication system for video and digital data. 3,691,295, 9-12-72, Cl. 178-58.000.
- Fisk, James C. Gauge support. 3,663,190, 5-16-72, Cl. 51-165.74.
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Firestone, Alexander H.; Fisk, Robert W.; and Kennedy, Kurt D., 3,655,902.
- Fisner, William L., to Shriver, T., & Company, Inc. Filter press method and apparatus. 3,633,747, 1-11-72, Cl. 210-81.
- Fisner, William L. Method for lifting flasks and molds. 3,643,725, 2-22-72, Cl. 164-44.
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Altounyan, Roger Edward Collingwood; and Howell, Harry, 3,669,113.
- Burton, Dennis Ernest, 3,644,637.
- Fitch, Stanley Frederick; and St. John, Dara Derrick Phiroz, 3,696,003.
- Gates, Peter Stuart; Gillon, John; and Sagers, David Thomas, 3,689,507.
- Miller, John; and Searle, Martin, 3,678,114.
- Ridgway, Kenneth, 3,662,806.
- Wragg, Arthur Hedley, 3,687,979.
- Fisons Pest Control Limited: *See—*
Burton, Dennis Ernest, 3,637,800.
- Sagers, David Thomas, 3,697,254.
- Fisons Pharmaceuticals Limited: *See—*
Alsop, Ranulph Michael; and Bremner, Ian, 3,639,588.
- Altounyan, Roger Edward, 3,671,625.
- Altounyan, Roger Edward Collingwood; Howell, Harry; and Rowlands, Martyn Omar, 3,635,219.
- Cairns, Hugh; and Johnson, Peter Bennett, 3,673,218.
- Ellis, Gwynn Pennant; and Wragg, Arthur Hedley, 3,652,765.
- Fitzmaurice, Colin; and Minshall, Robert, 3,665,013.
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- Hartley, Philip Saxton; and Gunning, Stephen Raymond, 3,634,582.
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- Fister, Aloysius J., to McGraw-Edison Company. Protector for electric circuits. 3,644,861, 2-22-72, Cl. 337-252.
- Fister, Julius C., Jr., to Olin Corporation. Aluminum-steel composites. 3,705,023, 12-5-72, Cl. 29-196.200.
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Scheublein, William A.; Fister, Louis P.; Fitch, Lawrence H.; and Jeney, George K., 3,658,312.
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- Fister, Robert V.: *See—*
Agnone, John L.; Fister, Robert V.; and Sheppard, Jon C., 3,703,585.
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Smith, Jean G.; and Fitch, Frederick T., 3,697,435.
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Eddy, John W.; Fitch, Harold G.; Mui, Wing F.; and Valente, Angelo M., 3,681,537.
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Scheublein, William A.; Fister, Louis P.; Fitch, Lawrence H.; and Jeney, George K., 3,658,312.
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Samiran, David; Cooling, Robert O.; and Fitch, Melvin G., 3,675,645.
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Long, Jack D.; and Richards, David, 3,663,353.
- Fitchen, Peter F. Stapler adapter for installing doors. 3,696,984, 10-10-72, Cl. 227-110.000.
- Fitchman, Arthur E.; and Nathe, Raymond J., to Marathon Manufacturing Company. Cell terminal. 3,640,775, 2-8-72, Cl. 136-134.
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Alphin, John G.; and Fitner, John B., 3,695,014.
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- Fitz, Philip Jonn: *See—*
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- Fitz Simmons, Vincent G., to United States of America, Navy. Moisture resistant dry film lubricants. 3,637,497, 1-25-72, Cl. 252-29.
- Fitzgerald, David J.; and Soboczenski, Edward J., to Du Pont de Nemours, E. I., and Company, 1-(p-Cumyl)-3,3-dimethylureas as selective herbicide. 3,649,241, 3-14-72, Cl. 71-120.
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- Fitzgerald, Walter P., Jr., to LRC Research and Development Company, *mesne*. Cleaning composition and method of using same. 3,640,879, 2-8-72, Cl. 252-103.
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- Fitzgibbon, Thomas F., to Garrett Corporation, The. Elevator system. 3,693,761, 9-26-72, Cl. 187-67.000.
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Branovich, Louis E.; Fitzpatrick, William B. P.; and Long, Martin L., Jr., 3,692,566.
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Dambrine, Francis, 3,693,540.
- De Cremon, Jacques, 3,642,534.
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- Giorgi, Jean Claude; and Windal, Georges, 3,680,621.
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Kroger, Alfon Fedorovich; and Stabulniek, Yan Petrovich, 3,683,260.
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Stehl, Otto, 3,666,084.
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Engel, Walter; Flachsbarth, Dieter; and Schwarz, Hermann, 3,667,042.
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- Flaherty, John J.; and Nerwin, Henry N., to Magnaflux Corporation. Non-destructive testing system having pattern recognition means. 3,673,860, 7-4-72, Cl. 73-67.900.
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Kemp, Woodrow E.; and Flaherty, Lawrence F., 3,650,788.
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Chi, John W. H.; and Flaherty, Robert, 3,688,762.
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Ho, Louis T.; and Flaherty, Robert J., III, 3,658,147.
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Assmus, Friedrich; Flaig, Hans; Dietrich, Dieter; and Hartner, Leo, 3,644,689.
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Dodson, Marshall A.; and Flair, Henry J., 3,633,831.
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Garrett, William, 3,682,181.
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Doman, Donald Wayne; and Saucy, Lawrence Kenneth, 3,642,162.
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Winter, Max; Gautschi, Fritz; Flament, Ivon; Stoll, Max; and Irving, Goldman M., 3,702,253.
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Lambert, Jacques, 3,678,695.
- Flamm, James R. Vehicle mounted equipment deck and ramp. 3,704,794, 12-5-72, Cl. 214-85.000.
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Gliniecki, Vern L.; and Flammang, Kenneth E., 3,634,165.
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- Flanagan, Gillis P. Method and system for simplifying speech waveforms. 3,647,970, 3-7-72, Cl. 179-1.5.
- Flanagan, James Loton: *See—*
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- Flanagan, William H., to Nexus, Inc. Lock-in electrical jack assembly. 3,668,610, 6-6-72, Cl. 339-74.00r.
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Lickliter, Robert Paul; and Reeves, John F., 3,638,387.
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- Flannelly, William G., to Kaman Aerospace Corporation. Flexible universal joint. 3,685,314, 8-22-72, Cl. 64-12.000.
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- Flannery, James E.: *See—*
Dumbaugh, William H., Jr.; Flannery, James E.; and Hares, George B., 3,661,601.
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- Flannery, James E., to Corning Glass Works. Spontaneous fluoride opal glasses with thermally reversible opacity. 3,667,973, 6-6-72, Cl. 106-54.000.
- Flannery, John B., Jr.: *See—*
Haas, Werner E. L.; Adams, James E., Jr.; and Flannery, John B., Jr., 3,680,950.
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- Haas, Werner Erwin Louis; Adams, James E.; Flannery, John B., Jr.; and Mechlowitz, Bela, 3,666,947.
- Flannery, Robert J.: *See—*
Connolly, John F.; Flannery, Robert J.; and McCollum, John D., 3,699,020.
- Flasch, Josef: *See—*
Stieger, Gerhard; and Flasch, Josef, 3,705,862.
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Kramer, Manfred; Flaschar, Heinz; and Antonulas, Georg, 3,642,019.
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Bukosky, Allen A.; Flavin, Michael A.; Hill, Donald G.; Huizinga, Donald D.; and Ritchey, James F., 3,670,111.
- Flechet, Jean: *See—*
Machon, Raymond; Flechet, Jean; and Hugo, Etienne, 3,664,805.
- Fleck, Donald G.: *See—*
Hein, Frank J.; and Fleck, Donald G., 3,680,625.
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Berg, Coleman David, 3,677,485.
- Fleck, Paul H., to Urethane Fabricators, Inc. Method of producing a molded simulated wooden article. 3,641,228, 2-8-72, Cl. 264-53.

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Behne, Ernst-August; and Fleer, Otto, 3,650,033.
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Stephens, Dennis T.; and Flees, Peter, 3,702,676.
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Wangard, William; and Fleeton, David W., 3,665,090.
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Bosch, Ludwig; Fleiner, Sigmund; and Fleissner, Heinz, 3,685,323.
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Fleisch, Alfred; and Perren, Stephan (said Perren assor. to said), 3,686,925.
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- Fleischer, Hans-Joachim: *See—*
Boeters, Karl-Ernst; Conzelmann, Gerhard; Streit, Klaus; and Fleischer, Hans-Joachim, 3,662,228.
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- Fleischer, Helen Krohn: *See—*
Fleischer, Oscar, 3,659,808.
- Fleischer, Helmut: *See—*
Schnaebel, Eberhard; Fleischer, Helmut; Zechnall, Richard; Domann, Helmut; Maisch, Wolfgang; and Christ, Klaus, 3,696,270.
- Zechnall, Richard; Domann, Helmut; Fleischer, Helmut; Christ, Klaus; and Maisch, Wolfgang, 3,642,329.
- Fleischer, Herbert: *See—*
Mayer, Udo; and Fleischer, Herbert, 3,658,461.
- Fleischer, James F.: *See—*
De Vries, Robert C.; and Fleischer, James F., 3,701,826.
- De Vries, Robert C.; and Fleischer, James F., 3,703,478.
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Viste, Kenneth L.; and Fleischfresser, Marvin H., 3,667,931.
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Poleska, Horst; and Fleischhauer, Horst, 3,638,272.
- Fleischmajer, Raul. Disposable wet compresses. 3,674,027, 7-4-72, Cl. 128-268.000.
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Stosberg, Herbert; Fleischmann, Horst; Reinhardt, Gunter; and Engels, Siegfried, 3,705,438.
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Backhurst, John Rayner; Goodridge, Francis; Plimley, Raymond Ernest; and Fleischmann, Martin, 3,654,098.
- Fleischner, Peter L., to National Beryllia Corporation. Apparatus and method for continuously depositing beryllia through vaporization of a basic formate. 3,679,463, 7-25-72, Cl. 117-107.20r.
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Fleissner, Heinz; and Fleissner, Gerold, 3,639,955.
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Nesbitt, Loyd B.; and Fleming, Robert B., 3,692,099.
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- Fletcher, Ralph A.; and Oliver, Joseph R., 3,655,243.
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- Vasselin, John F., 3,658,453.
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- Russell, Peter B.; Fletcher, Horace, III; and Alburn, Harvey E., 3,704,312.
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- Chamberlain, Terrance L.; Sears, Richard P.; and Fletcher, Ivan H., Jr., 3,697,360.
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- Sudduth, William B., 3,699,294.
- Flex-O-Glass, Inc.: See—
- Warp, Harold, 3,642,557.
- Warp, Harold, 3,645,830.
- Flex-O-Lators, Inc.: See—
- Platt, John G.; and Isaacs, Robert O., 3,667,749.
- Platt, Thomas W.; and MacMorran, Robert D., 3,634,896.
- Flexian Hydraulics Ltd.: See—
- Hart, Bernard Eaton, 3,640,647.
- Flexicon Electronics, Inc.: See—
- Clements, John W., 3,686,612.
- Flexicore Co., Inc.: See—
- Smith, Robert E., 3,648,963.
- Flexigrip, Inc.: See—
- Ausnit, Steven; Sommer, Gunther Max; and Haberle, Helmut Z., 3,650,009.
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- Flicker, Alwyn: See—
- Schlau, Floyd E.; Anderson, Albert L.; Kilroy, Eugene J., Jr.; and Flicker, Alwyn, 3,665,610.
- Flickinger, Erich: See—
- Graeffe, Heinz; and Flickinger, Erich, 3,703,444.

- Flickinger, John H.: See—
- Merlino, Thomas R.; Flickinger, John H.; and McFadden, Russell T., 3,702,349.
- Flid, Mark Davydovich; and Dibner, Leonid Grigorievich. Machine tool for machining workpieces along a closed variable-curvature contour. 3,633,320, 1-11-72, Cl. 51-161.
- Flieder, Robert A.: See—
- Weissglass, Louis I.; and Flieder, Robert A., 3,684,371.
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- Flieder, Robert A.; and Weissglass, Louis L., to Berkey Photo, Inc. Timing circuit. 3,681,613, 8-1-72, Cl. 307-141.400.
- Flight Dynamics Research Corporation: See—
- Harris, Gordon L., 3,664,611.
- Flight Refueling Limited: See—
- Macgregor, Peter Stevens, 3,674,049.
- West, Derek, 3,653,410.
- Flinchbaugh, Dean A., to Bethlehem Steel Corporation. Aperture vessel for fluid-suspension particle analyzer. 3,654,551, 4-4-72, Cl. 324-71.
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- Fling, William F.: See—
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- Flink, John W. Convertible boat. 3,678,874, 7-25-72, Cl. 114-66.50p.
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- Flint, Gerald A.: See—
- Peterson, Marvin A.; and Flint, Gerald A., 3,652,297.
- Flint, Hans Gerhard: See—
- Neitzel, Ulrich E. G.; and Flint, Hans Gerhard, 3,690,844.
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- Flint, John Christopher Eglington: See—
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- Dalik, Herbert A., 3,672,804.
- Drukker, John J., 3,635,863.
- Johnson, Murdoch L.; and Bartlett, Francis J. W., 3,660,320.
- Russell, Thomas E., 3,635,861.
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- Slater, Thomas C.; and Hamilton, Floyd C., Jr., 3,682,669.
- Flipot, Alfred J. P., to Belgonucleaire S.A. Controlled calcination of agglomerated nuclear fuel prior to pelletizing and sintering. 3,692,887, 9-19-72, Cl. 264-500.
- Flippen, Floyd F.: See—
- Crenshaw, Paul L.; Flippen, Floyd F.; and Glasgow, James P., 3,634,237.
- Flis, Richard J.: See—
- Martone, Ronald J.; Mueller, Peter G.; and Flis, Richard J., 3,683,180.
- Flisi, Umberto: See—
- Cameli, Nazzareno; Longi, Paolo; Valvassori, Alberto; and Flisi, Umberto, 3,670,055.
- Flitsch, Ernst: See—
- Gotzenberger, Rudibert, 3,640,311.
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- Flittie, William J. Feedstuff handling and apparatus. 3,698,578, 10-17-72, Cl. 214-58.000.
- Flo Devices Inc.: See—
- Kapp, Ludwig J., 3,695,410.
- Flo-Tech Corporation: See—
- Rosenberg, Karl M., 3,679,784.
- Flo-Tech Corporation, mesne: See—
- Rosenberg, Karl M., 3,678,891.
- Rosenberg, Karl Moses, 3,671,288.
- Flock, Howard George, Jr.; and Rausch, Emerson George, to Calgon Corporation. Method for removing phosphate from waste water. 3,655,552, 4-11-72, Cl. 210-47.
- Floek, Wayne D.: See—
- Kinley, John C.; Floeck, Wayne D.; and Agee, Charles W., 3,683,408.
- Floehr, Walter L., to Midland-Ross Corporation. Tandem toggle hopper door operating mechanisms. 3,654,873, 4-11-72, Cl. 105-248.
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- Flom, Charles. Single-use toothbrush. 3,691,585, 9-19-72, Cl. 15-104.094.
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- Flood, Harold W.; Hall, George H.; and Meissner, Herman P., to Little, Arthur D., Inc. Method for monitoring the oxygen and carbon contents in a molten metal. 3,652,427, 3-28-72, Cl. 204-1.
- Flood, Joseph A.: See—
- Kohler, Willem A.; and Flood, Joseph A., 3,658,032.
- Flor, Eugene Frank, to Grove Valve and Regulator Company. Stud driver. 3,631,747, 1-4-72, Cl. 81-64.
- Flora, James D., to Singer Company, The, mesne. Magnetic sensing transducer with a flat unitary laminate core structure. 3,651,502, 2-1-72, Cl. 340-174.1.
- Floral Grading Inc.: See—
- Bartlett, David S., Jr.; Purcell, Rupert M.; Osborne, David W.; and Smith, Troy F., Jr., 3,659,709.
- Florance, Douglas A.; Nordholm, Lloyd P.; and Foldes, Stephen. Automatic ground fault circuit interrupter. 3,641,393, 2-8-72, Cl. 317-22.
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- Floreen, Stephen, to International Nickel Company, Inc., The. Highly corrosion resistant maraging stainless steel. 3,697,258, 10-10-72, Cl. 75-128.00b.
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- Leopold, Wilbur R.; Hackman, Frank C.; Floren, Carl E.; and Gould, Wallace E., 3,687,492.
- Florence, Robert T.: See—
- Thomas, Richard E.; Florence, Robert T.; Dalal, Rustom H.; and Scheuer, Raymond I., 3,632,364.
- Florens, Raymond Leopold: See—
- Verelst, Johan Lodewijk; Willems, Jozef Frans; and Florens, Raymond Leopold, 3,639,126.
- Florent, Jacques: See—
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- Floria, Vernon D.: See—
- Nelson, Alfred R.; and Floria, Vernon D., 3,706,722.
- Florian, Berkeley Jay: See—
- Florian, Berkeley Julian; and Florian, Berkeley Jay, 3,690,692.
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198-139.
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Cl. 273-80.00a.
- Florian, Carlo: *See—*
Calderazzo, Fausto; and Floriani, Carlo, 3,636,007.
- Florida Gas Company: *See—*
Wonderly, Clifford L., 3,700,522.
- Florida Juice Vendors, Inc.: *See—*
Stano, Eugene A., 3,702,666.
- Florin, Aloys: *See—*
Prior, Josef; and Florin, Aloys, 3,634,155.
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6-27-72, Cl. 23-230.00r.
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Girotti, Pierleona; Floris, Telemaco; and Pecci, Giancarlo,
3,642,612.
- Florjancic, Peter. Closure apparatus. 3,646,853, 3-7-72, Cl. 92-76.
- Florjancic, Peter. Injection moulded chain, especially plastic chain.
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- Florschutz, Franz. People's helicopter. 3,640,488, 2-8-72, Cl. 244-
17.19.
- Florsheim, Leonard S., Jr.; Lieberman, David A.; Archer, Harold B.;
and Nothmann, Gerhard A., to Enivar Enterprises, Inc., mesne.
Automatic density setting apparatus. 3,640,623, 2-8-72, Cl. 355-
67.
- Florus, Hans-Jorg: *See—*
Burckhardt, Manfred H.; Florus, Hans-Jorg; and Grossner,
Horst, 3,667,813.
Burckhardt, Manfred H.; Florus, Hans-Jorg; Grossner, Horst;
and Krohn, Helmut, 3,672,730.
- Florus, Hans-Jorg; and Grossner, Horst, to Daimler-Benz Aktien-
gesellschaft. Rotary acceleration indicator, especially for motor
vehicles. 3,683,283, 8-8-72, Cl. 328-5.000.
- Florwall, Gosta Linnart: *See—*
Carlsson, Per Arvid Emil; Corrodi, Hans Hudolf; Florwall, Gosta
Linnart; and Ross, Svante Bertil, 3,644,623.
- Flory, John F.; Baptist, Colin N. T.; Kuhn, Russel C.; and Stracke,
Frederick H., to Esso Research and Engineering Company. Single
anchor leg single point mooring system. 3,641,602, 2-15-72, Cl. 9-
8.
- Flory, Klaus: *See—*
Stein, Werner; and Flory, Klaus, 3,703,469.
- Flory, Robert Earl; and Spang, Fred William, to RCA Corporation.
System and filter for encoding color images onto black and white
film. 3,637,925, 1-25-72, Cl. 178-5.4.
- Flototto, Fritz. School desks. 3,690,743, 9-12-72, Cl. 312-231.000.
- Flotti Puppenkleiderspiele Gesellschaft mit beschränkter Haftung:
See—
Schröner, Wera, 3,705,427.
- Flotum Inc.: *See—*
Finn, George P., Jr., 3,680,341.
- Flournoy, James W.; and Heyden, Gary F., to Lockheed Aircraft
Corporation. Locking mechanism and actuating means therefor.
3,638,983, 2-1-72, Cl. 292-302.
- Flournoy, Norman E.; Dancy, Julian H.; and Trippet, Raymond, to
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Trippet, Raymond, to Texaco Inc. Oil burner. 3,664,804, 5-23-72,
Cl. 431-183.
- Flournoy, Norman E., to Texaco Inc. Oil burner. 3,667,894, 6-6-72,
Cl. 431-114.
- Flournoy, Norman E.; Eisenlohr, Gerald M.; Black, Frank R., Jr.;
and Schultz, James E., to Texaco Inc. Filament plating system.
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- Flournoy, Norman E.; Dancy, Julian H.; and Trippet, Raymond, to
Texaco Inc. Oil burner. 3,694,136, 9-26-72, Cl. 431-265.000.
- Flow Pharmaceuticals, Inc.: *See—*
Kreznoski, Joseph Z.; and Petricciani, John C., 3,645,284.
- Flowcrete Limited: *See—*
Crowder, David Bickerton, 3,694,118.
- Flower, Ronald J.: *See—*
Peep, Mart; and Flower, Ronald J., 3,656,342.
- Flowers, George H., Jr.: *See—*
Karrh, John H.; and Flowers, George H., Jr., 3,682,676.
- Flowers, Joseph K.: *See—*
Lootens, William F.; and Flowers, Joseph K., 3,706,915.
- Flowers, Leonard B.; and Okuniewski, Vincent F. Lamp and socket
decorative locking device. 3,670,160, 6-13-72, Cl. 240-102.00a.
- Flowers, Mary Frances Buchanan: *See—*
Karrh, John H.; and Flowers, George H., Jr., 3,682,676.
- Flowers, Ralph G.; and Sherer, Thomas L., to General Electric Com-
pany. Polyamide-imide compositions with improved hydrolytic sta-
bility. 3,661,852, 5-9-72, Cl. 260-65.
- Flowers, Ralph G.; and Sherer, Thomas L., to General Electric Com-
pany. Polyamide-acid composition and method of preparation.
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- Flowers, Theodore R.: *See—*
Volosin, Michael J.; and Flowers, Theodore R., 3,646,316.
- Flowers, Thomas Harold, to International Standard Electric Corpora-
tion. VF pushbutton signalling arrangement. 3,649,771, 3-14-72,
Cl. 179-84.
- Flowtron Aire Limited: *See—*
Shield, Walter; Saggars, Michael John; and Calnan, James,
3,683,897.
- Floyd, Johnnie E. Hydraulic powered stair negotiating wheel chair or
uneven terrain negotiating vehicle. 3,638,745, 2-1-72, Cl. 180-8.
- Floyd, Robert L., Jr.: *See—*
Billias, Michael G.; and Floyd, Robert L., Jr., 3,645,816.
- Floyd, Terence John. Self cleaning filter apparatus. 3,645,400, 2-29-
72, Cl. 210-108.
- Flubacker, Charles H. Vending machine with carriage drive selector.
3,692,211, 9-19-72, Cl. 221-9.000.
- Fluchter, Werner: *See—*
Thies, Alfred F. B.; Ameling, Bernhard; Reuther, Albert R.; and
Fluchter, Werner, 3,670,531.
- Fluck, Eugene R.: *See—*
Bluhm, Herbert J.; and Fluck, Eugene R., 3,674,806.
- Fluck, Josef, to Schild, A., S.A. Watch movement having totalizers.
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- Fluck, Rene, to Schweizerische Industrie-Gesellschaft. Method and
device for inserting biscuits into boxes. 3,638,391, 2-1-72, Cl. 53-
35.
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device for separating articles arranged inclose succession on a
conveyor. 3,638,777, 2-1-72, Cl. 198-20.
- Fluck, Sydney, Jr., to Jerrold Electronics Corporation. Simultaneous
sweep testing system for CATV. 3,651,403, 3-21-72, Cl. 325-31.
- Flucke, Winfried: *See—*
Lorenz, Walter; Fest, Christa; Hammann, Ingeborg; Federmann,
Manfred; Flucke, Winfried; and Stendel, Wilhelm, 3,689,648.
- Fludzinski, Jan M., to Westinghouse Electric Corporation. System
for tracking mill stand motor currents for optimizing the duty cy-
cle. 3,657,623, 4-18-72, Cl. 318-326.
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72, Cl. 73-361.000.
- Fluesmeier, Arsdell L., to Eagle-Picher Industries, Inc. Method of
forming boric acid. 3,682,590, 8-8-72, Cl. 23-149.000.
- Fluggeratewerk Bodensee GmbH: *See—*
Hantusch, Werner; and Strittmatter, Bernhard, 3,634,945.
- Flughafen Frankfurt Am Main Aktiengesellschaft: *See—*
Koennecke, Wolfgang; and Stricker, Reinhold, 3,642,158.
- Fluhmann, Werner: *See—*
Fluhmann, Werner; and Saxer, Walter, 3,660,251.
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Anstalt, Galvanische. Method for the electrolytical deposition of
highly ductile copper. 3,660,251, 5-2-72, Cl. 204-15.000.
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Brown, Ray B.; Fluhr, Frederick R.; and Hall, George L.,
3,698,797.
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get separator. 3,671,966, 6-20-72, Cl. 343-6.50r.
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4-72, Cl. 92-98.000.
- Fluid Chemical Company, Inc.: *See—*
Yuhas, Edward R., 3,685,695.
Yuhas, Edward R., 3,693,837.
- Fluid Energy Processing & Equipment Company: *See—*
Stephanoff, Nicholas N., 3,648,936.
Stephanoff, Nicholas N., 3,667,131.
Stephanoff, Nicholas N., 3,675,858.
Stephanoff, Nicholas N., 3,699,662.
- Fluidic Controls Corporation: *See—*
Kutz, Aaron, 3,698,432.
- Fluidic Industries, Inc.: *See—*
Blaklock, Paul M.; and Kinner, Hans-Dieter, 3,667,489.
Hatch, Richard W., Jr.; and Blaklock, Paul M., 3,654,947.
- Fluidics, Inc.: *See—*
Rao, Prabhakar B. R., 3,691,981.
- Fluidrive Engineering Company Limited: *See—*
Bilton, John, 3,690,196.
- Fluidtech Corporation: *See—*
Osheroft, Gene W., 3,680,776.
- Fluke, John, Mfg. Co., Inc.: *See—*
Van Saun, Richard W., 3,703,002.
- Flume Stabilization Systems, Inc.: *See—*
Pangalila, Frans V. A., 3,653,354.
- Flummi, Paul T. Switch. 3,632,934, 1-4-72, Cl. 200-153.
- Fluor Corporation: *See—*
Breston, Michael P.; and Keilberg, Ray D., 3,670,514.
Gibson, Robert G.; Mackin, John G., Jr.; Johnson, Paul K.; and
Koop, Francis D., Jr., 3,670,511.
Jackson, Steven B.; Freieich, Ernest; and Hammond, James D.,
3,675,435.
Koop, Francis Detrich, Jr.; Johnson, Paul Kingston; and Russell,
Larry Rayner, 3,641,779.
- Fluor Ocean Services, Inc.: *See—*
Gibson, Robert G., 3,641,778.

- Mott, James D.; and Feazle, Richard B., 3,680,342.
- Fluor Products Company, Inc.: *See—*
Furlong, Donn B.; Luzaich, Samuel; and Forchini, James F.,
3,647,317.
- Fluoroy, Norman E.; and McPeak, Earl W., Jr., to Texaco Inc. Oil
burner. 3,642,210, 2-15-72, Cl. 239-407.
- Fluorodynamics, Inc.: *See—*
Roberts, Robert, 3,677,845.
Roberts, Robert, 3,707,428.
- Fluoroware, Inc.: *See—*
Baker, William H., 3,701,558.
- Fluoroware of California, Inc.: *See—*
Orr, Robert F.; and Wyers, Joseph H., 3,641,906.
- Flur, Barry L.: *See—*
Alberts, Gene S.; and Flur, Barry L., 3,647,643.
- Flusfeder, Joseph: *See—*
Palmer, Leonard; and Flusfeder, Joseph, 3,632,280.
- Flusfeder, Joseph; and Palmer, Leonard. Apparatus for manufactur-
ing disc records. 3,702,749, 11-14-72, Cl. 425-109.000.
- Flux, Peter John, to Westland Aircraft Limited. Tail rotor hub as-
sembly for rotary wing aircraft. 3,700,351, 10-24-72, Cl. 416-
123.000.
- Flynn & Emrich Company: *See—*
Barland, Lauri C., 3,642,187.
Jefferts, Keith, 3,662,239.
- Stanton, Stephen; and Varhol, Edward, 3,664,564.
- Flynn, Adrian Francis, to General Electric Company Limited, The.
Electric switching circuits. 3,665,292, 5-23-72, Cl. 323-48.
- Flynn, Benjamin Harrison, Jr. Single pass structural shape punch.
3,667,333, 6-6-72, Cl. 83-255.000.
- Flynn, Floyd W.: *See—*
Bjelland, John Louis; Flynn, Floyd W.; and Schutt, Norman C.,
3,690,780.
- Flynn, John F. Automatically aerated leaching field system.
3,698,194, 10-17-72, Cl. 61-11.000.
- Flynn, John G., to High Energy Processing Corporation. Storage bat-
tery with closure seal and vent means. 3,661,650, 5-9-72, Cl. 136-
133.
- Flynn, John Harold. Method of making polyolefin-paper laminate
with flame treatment of the paper. 3,640,788, 2-8-72, Cl. 156-82.
- Flynn, Joseph E., to Subsea Products, Inc. Energy storage and
discharge system. 3,666,964, 5-30-72, Cl. 307-108.
- Flynn, Robert, to Ciba-Geigy Corporation. Process for producing
hardenable epoxy resin compositions. 3,679,465, 7-25-72, Cl. 117-
126.00e.
- Flynn, Terence David: *See—*
Bent, Christopher James; Flynn, Terence David; and Glover,
Brian, 3,702,752.
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process for preparing and using same. 3,671,249, 6-20-72, Cl. 96-
88.000.
- Flynn, Vincent J., to Scientific Tube Products, Inc. Plasticized,
radiopaque vinyl resin compositions. 3,645,955, 2-29-72, Cl. 260-
31.4.
- FMA, Inc.: *See—*
Adams, Thomas F.; Mattes, Lyle T.; and Roulund, Poul B.,
3,639,746.
- Hudspeth, Steve A.; and Lunsford, John B., 3,666,038.
- Hudspeth, Steve A.; and Lunsford, John B., 3,688,859.
- FMC Corporation: *See—*
Abbott, John A.; and Watson, Clyde D., 3,704,716.
Ager, John W., 3,654,356.
Ager, John W., 3,678,106.
Ager, John W., Jr., 3,683,017.
Ager, Patrick W., 3,637,905.
- Anderson, Gerald R.; and Wann, William C., Jr., 3,666,079.
- Anderson, Gerald R.; and Wann, William C., Jr., 3,695,322.
- Arnaud, Jose L., 3,701,637.
- Avramidis, Stelios Antony, 3,661,025.
- Bash, Winston D.; and Hickey, Frank D., 3,661,201.
- Battista, Orlando A., 3,632,350.
- Battista, Orlando A., 3,632,361.
- Battista, Orlando A., 3,639,266.
- Battista, Orlando A., 3,649,347.
- Battista, Orlando A., 3,691,281.
- Belk, Wilber C.; and Mulford, Charles T., 3,656,526.
- Benning, Bennie LeRoy, 3,661,520.
- Berkowitz, Sidney, 3,637,872.
- Billett, Ronald J.; Holtkamp, Wilhelmus H.; and Vittanen, Veik-
ko K., 3,665,673.
- Bloch, Walter, 3,663,604.
- Blumbergs, John H.; Finley, Joseph H.; and Rizzo, John J.,
3,637,609.
- Blumbergs, John H.; and Mac Kellar, Donald G., 3,684,477.
- Blumbergs, John H.; and Menieks, Paul R., 3,691,139.
- Brink, Edwin H., 3,636,897.
- Brink, Edwin H.; and Palmer, Warren G., 3,642,617.
- Brown, John S., 3,695,895.
- Buchta, Ervin A., 3,656,501.
- Buchzik, Charles M., 3,672,917.
- Burkitt, Sherman Carl, 3,662,869.
- Caffa, Giorgio, 3,656,520.
- Carr, James P., 3,692,045.
- Carrigan, Tracy, 3,666,369.
- Castrantas, Harry M., 3,666,399.
- Castrantas, Harry M.; Keay, Robert E.; and MacKellar, Donald
G., 3,677,955.
- Causton, David W., 3,637,075.
- Chamberlin, Donald W., 3,633,728.
- Chiang, John S. C.; and Hogya, Bernard J., 3,671,344.
- Ciesielski, Bernard A., 3,680,686.
- Cohen, Bernard; and Muceniaks, Paul Raimond, 3,649,159.
- Cohen, Bernard, 3,651,209.
- Cohen, Bernard, 3,705,103.
- Crawford, Donald C., 3,703,841.
- Dahlberg, Franklyn L.; and Brewer, Willie F., 3,633,679.
- Davidson, Roger, 3,707,230.
- Dierdorff, Lee H., Jr.; and Kosciolk, Joseph H., 3,655,698.
- Dietel, James B.; Wacker, Charles J.; and Miller, George W.,
3,636,337.
- Dumanowski, Ferdinand J.; Malley, William G.; and Cayton,
David W., 3,656,488.
- Faccou, Armand L., 3,679,235.
- Fairbanks, Theodore H., 3,632,714.
- Fairbanks, Theodore H., 3,632,716.
- Fairbanks, Theodore H., 3,644,239.
- Fairbanks, Theodore H., 3,649,142.
- Fairbanks, Theodore H., 3,654,031.
- Fairbanks, Theodore H., 3,663,668.
- Fairbanks, Theodore H.; Gillespie, Robert F.; and Nelson, Dor-
sey C., 3,664,780.
- Fairbanks, Theodore H., 3,664,787.
- Fairbanks, Theodore H., 3,673,057.
- Fairbanks, Theodore H., 3,676,267.
- Fairbanks, Theodore H., 3,683,059.
- Fairbanks, Theodore H., 3,686,380.
- Fairbanks, Theodore H., 3,686,381.
- Fairbanks, Theodore H., 3,686,382.
- Fairbanks, Theodore H., 3,689,617.
- Fairbanks, Theodore H., 3,694,537.
- Ferraro, Charles F., 3,632,545.
- Fuchs, Robert J.; and Pals, Raimond, 3,682,588.
- Galloway, Roderick S.; Swartz, Horace M.; and Walsh, Joseph
H., 3,662,690.
- Gancy, Alan B., 3,652,382.
- Gibbons, Harold M., 3,661,408.
- Gibbons, Loren K., 3,679,682.
- Glanville, James Oliver, 3,649,194.
- Gleason, Robert Joseph, 3,684,438.
- Goldstein, David, 3,695,831.
- Goldstein, David, 3,701,737.
- Goodley, George F., 3,691,939.
- Gresham, John Thomas, 3,686,283.
- Guy, Warren H., 3,635,008.
- Guy, Warren H., 3,654,029.
- Guyaux, James R., 3,666,127.
- Guyaux, James R.; Le Duc, Donald; and McDonald, Dean T.,
3,679,075.
- Hamilton, James P., 3,672,924.
- Harper, William Sheridan; and Daigler, David Wayne,
3,694,154.
- Herink, John F., 3,661,514.
- Hills, William A.; and Volpp, Gert P., 3,665,000.
- Hogya, Bernard James; and Mc Manamon, Joseph Thomas,
3,644,155.
- Homeier, Ronald F.; and Richardson, Larry E., 3,651,924.
- Homeier, Ronald F., 3,693,781.
- Hook, Corey T., Jr., 3,656,415.
- Kalbskopf, Karl-Heinz, 3,704,009.
- Keay, Robert E.; and Keast, Russell R., 3,634,261.
- Keay, Robert E.; Castrantas, Harry M.; and MacKellar, Donald
G., 3,635,667.
- Keogh, James R., Jr., 3,639,172.
- Kibbel, William H., Jr.; and O'Neill Eugene T., 3,681,022.
- Krisak, Edward J.; and Strozak, Stephen, 3,661,399.
- Krogman, Stanley R., 3,642,207.
- Krynock, Robert A.; and Ruhe, Robert W., Jr., 3,666,095.
- Kuhn, Kenneth G.; and Chamberlain, Neal C., 3,703,952.
- Latourette, Harold K., 3,663,393.
- Lemke, Arthur A., 3,661,261.
- Lill, Melvin H., 3,665,657.
- Lill, Melvin H.; and Graham, Edward P., 3,689,161.
- Lind, Willard M., 3,703,762.
- Lofstrand, Wilton S.; and Montgomery, John G. (said Lofstrand
assor. to), 3,703,930.
- Looker, Olin L., 3,640,055.
- Looker, Olin L., 3,687,568.
- Lutz, Charles William, 3,640,827.
- Lutz, Charles William, 3,669,682.
- Lynch, Charles A., Jr., 3,634,462.
- Lynch, Charles A., Jr.; and Hamilton, James P., 3,639,280.

- Lynch, Charles Andrew, Jr.; and Orwoll, Edward Francis, 3,678,086.
 May, George; and Lill, Melvin H., 3,692,081.
 Mednick, Sol Abraham, 3,655,524.
 Mesiah, Raymond N.; and Chancey, Harold R., 3,644,359.
 Mesiah, Raymond N., 3,668,204.
 Mesiah, Raymond N.; Beck, William F.; and Goldstein, David, 3,705,019.
 Miller, George W.; Wacker, Charles J.; and Dietel, James B., 3,662,379.
 Miller, Rodney D.; and Nielsen, John K., 3,678,677.
 Mizuma, Noriaki; and Yokota, Yuzo, 3,679,352.
 Montgomery, Ronald Eugene; and Incho, Harry Hobart, 3,652,741.
 Muceniks, Paul R.; and Muyskens, Dirk J., 3,692,583.
 Mughannam, Adil A., 3,662,870.
 Mulford, Charles T., 3,696,943.
 Mumma, Harold J.; and Parry, Curtis L., 3,633,506.
 Nelson, Dorsey C., 3,639,160.
 Oldenkamp, Henry A.; and Watson, Clyde D., 3,648,382.
 Orwoll, Edward F., 3,644,602.
 Orwoll, Edward F., 3,679,550.
 Ouska, Ralph C., 3,635,363.
 Ouska, Ralph C., 3,690,445.
 Patel, Vithal C.; and Orwoll, Edward F., 3,681,482.
 Patterson, Joseph M., 3,633,738.
 Pepmeier, Carl R., 3,662,954.
 Pepmeier, Carl R.; Sincavage, Joseph T.; and Stoffregen, Louis E., 3,673,046.
 Peter, Alfred O., 3,699,895.
 Pfaffenberger, Eugene E., 3,647,273.
 Price, John A.; and Stewart, Mary J., 3,635,900.
 Price, John A.; and Stewart, Mary J., 3,644,291.
 Price, John A.; and Stewart, Mary J., 3,661,842.
 Price, John A.; and Stewart, Mary J., 3,673,157.
 Price, John A.; and Stewart, Mary J., 3,692,741.
 Price, John A.; and Stewart, Mary J., 3,700,644.
 Putsch, Samuel W.; and Hutchison, Carl R., 3,661,206.
 Putsch, Samuel W., 3,679,238.
 Radimer, Kenneth J.; and Munday, Theodore F., 3,701,825.
 Raech, Harry, Jr., 3,637,449.
 Rampy, Gordon A.; Parsons, Norman C.; and Ryder, Mabel H., 3,706,823.
 Rauth, Glen E., 3,656,282.
 Reed, Stanley E., Jr.; and Ruby, Donald C., 3,672,794.
 Reimers, James; and Johnson, Audrey J., 3,642,111.
 Reimers, James L., 3,633,729.
 Reimers, James L., 3,640,375.
 Rose, Boyd W., 3,643,817.
 Ryan, Daniel J., 3,639,530.
 Satterwhite, Lawrence E.; Williamson, Alton M.; and Shindler, George R., 3,678,958.
 Sayers, Robert P., 3,663,817.
 Schroeder, Paul Herman, 3,657,426.
 Schroeder, Paul Herman, 3,689,647.
 Scott, Junius D., 3,634,734.
 Sears, Bobby Joe; and Looker, Olin L., 3,633,348.
 Sears, Bobby Joe, 3,648,443.
 Segro, Nicholas Richard, 3,689,453.
 Sheetz, Charles E., 3,643,799.
 Sheetz, Charles E., 3,656,272.
 Sheetz, Charles E., 3,695,371.
 Shepherd, John Alexander; and Hobbs, Millice Floyd, 3,705,098.
 Shipes, Kelly V., 3,653,671.
 Sincavage, Joseph T.; Pepmeier, Carl R.; and Stoffregen, Louis E., 3,693,785.
 Spurlin, William V.; and Carroll, Patrick J., 3,703,236.
 Stahr, Donald F., 3,662,232.
 Stange, Hugo, 3,647,710.
 Stewart, Mary J.; and Price, John A., 3,634,357.
 Stewart, Mary J.; and Price, John A., 3,640,964.
 Stewart, Mary J.; and Carlson, Otto K., 3,642,689.
 Stewart, Mary J.; and Price, John A., 3,644,292.
 Stewart, Mary J.; and Price, John A., 3,644,295.
 Stewart, Mary J., 3,652,493.
 Sticker, Robert Earl, 3,651,226.
 Stock, David K., 3,679,115.
 Swartz, Horace M., 3,691,959.
 Thomas, David Carl, 3,650,156.
 Tillett, Thomas J.; and Straus, Barry, 3,693,805.
 Traube, Robert J., 3,640,412.
 Traube, Robert J., 3,661,284.
 Traube, Robert J., 3,667,588.
 Traube, Robert J., 3,670,867.
 Treidler, Theodore Leo, 3,685,964.
 Treves, Gino R., 3,655,655.
 Tryon, Sager, 3,634,356.
 Updyke, Lionel Joe, 3,691,037.
 Vadas, Leslie, 3,656,529.
 Vande Castle, Jerome J., 3,641,857.
 Wacker, Charles J.; Miller, George W.; and Dietel, James B., 3,662,242.
 Walker, William Bruce, 3,633,677.
 Wech, Robert J., 3,663,338.
 Wilhelm, Larry A., 3,633,427.
 Wilhelm, Larry A., 3,688,589.
 Willmore, Charles R., 3,701,840.
 Wilson, Donald C., 3,634,099.
 Wilson, Donald C., 3,650,088.
 Wilson, Donald C., 3,658,562.
 Wilson, Donald C., 3,699,875.
 Wilson, Donald C., 3,704,139.
 Wilson, Kenneth R.; and Kennedy, Robert M., 3,655,696.
 Winkley, Donald Charles, 3,661,510.
 Wright, Carl L.; and Beacham, Harry H., 3,637,578.
 Wright, Carl L.; and Beacham, Harry H., 3,684,616.
 Wright, Joseph F., 3,633,872.
 Yelin, Robert E.; and Villiers, Ralph F., 3,634,024.
 Yelin, Robert E.; Sitzer, Leonard A.; and Villiers, Ralph F., 3,649,164.
 Youmans, Donald W., 3,666,122.
 Fo-Mac Enterprises, Inc.: See—
 Fowlkes, George V.; Collins, Glenn E.; and McCormack, Darrell W., 3,641,962.
 Foam Forms, Inc.: See—
 Glueckert, Robert C., 3,651,180.
 Foamcoil Services S. A., mesne: See—
 Zysman, Milton, 3,633,228.
 Foard, Ralph W.: See—
 Kempema, James L.; and Foard, Ralph W., 3,697,731.
 Foard, William H., to Inspiration Consolidated Copper Company. Protection of converters. 3,634,068, 1-11-72, Cl. 75-72.
 Focella, Antonino: See—
 Brossi, Arnold; Focella, Antonino; Rachlin, Albert Israel; and Teitel, Sidney, 3,636,080.
 Foch, Henri, to Agence Nationale de Valorisation de la Recherche (ANVAR). Generation of phase-displaced triangular signals which may be two-phase and three-phase, and of corresponding sinusoidal signals. 3,649,845, 3-14-72, Cl. 307-228.
 Focht, John Richard, to Precision Valve Corporation. Plug and cavity mechanical break-up button. 3,652,018, 3-28-72, Cl. 239-490.
 Focht, John Richard, to Precision Valve Corporation. Aerosol mechanical break-up nozzle insert. 3,669,359, 6-13-72, Cl. 239-491,000.
 Fock, Jurgen; and Holtschmidt, Ulrich, to Goldschmidt, Th., A.-G. Heat-hardenable, foil containing polymerize with pendant glycidyl groups. 3,689,592, 9-5-72, Cl. 260-836,000.
 Fock, Jurgen; and Holtschmidt, Ulrich, to Goldschmidt, Th., A.-G. Linear heat-hardenable copolymerize. 3,694,418, 9-26-72, Cl. 260-78,50r.
 Foddy, Harold W.: See—
 Andreasen, Howard P.; Ankeny, Jay H.; Foddy, Harold W.; and Reynolds, David W., 3,676,020.
 Ankeny, Jay H.; Foddy, Harold W.; and Kessler, Dayton F., 3,682,044.
 Foden, Frederick Roger; and O'Mant, Derrick Michael, to Imperial Chemical Industries Limited. 2-Substituted benzylidene-4-phenyl-3-hydroxy 5-oxo-2,5-dihydrofuran derivatives. 3,676,464, 7-11-72, Cl. 260-343,600.
 Fodor, Lawrence M.: See—
 Kahle, Gerald R.; and Fodor, Lawrence M., 3,658,779.
 Fodor, Lawrence M., to Phillips Petroleum Company. Carbon disulfide with trialkyl phosphine as adjuvant for polymerization catalyst and polymerization process. 3,635,930, 1-18-72, Cl. 260-93,7.
 Fodrea, James W., to General Motors Corporation. Transmission. 3,645,147, 2-29-72, Cl. 74-375.
 Fodrea, James W., to General Motors Corporation. Method of manufacturing and assembling transmission components. 3,703,031, 11-21-72, Cl. 29-469,000.
 Foehtlich, Baldur, to Badische Anilin- & Soda-Fabrik Aktien-gesellschaft. Production of 4,5-benzotripon-2,7-dicarboxylic esters. 3,652,648, 3-28-72, Cl. 260-475.
 Foehring, Robert A.; Garnache, Richard R.; and Kenney, Donald M., to International Business Machines Corporation. Method for diffusion limited mass transport. 3,672,948, 6-27-72, Cl. 117-106,00r.
 Foelsch, Donald Henry; and Manly, Donald G., to Glyco Chemicals, Inc. Stabilization of (ethylene bis-stearamide)-lubricated ABS with an acid. 3,649,585, 3-14-72, Cl. 260-32,6.
 Foerster, George S.: See—
 Matthews, Russell E.; and Foerster, George S., 3,691,813.
 Foerster, George S., to Dow Chemical Company. The Die casting alloy compositions. 3,634,076, 1-11-72, Cl. 75-153.
 Foerster, George S.; and Lawrence, Garth D., to Dow Chemical Company. The Method of making a creep resistant lead alloy. 3,637,440, 1-25-72, Cl. 148-11,5.
 Foerster, George S., to Dow Chemical Company. The Method of preparing lead article. 3,694,536, 9-26-72, Cl. 264-111,000.

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 Foerster, Roy P., to Bunker-Ramo Corporation. The. Threshold and majority gate elements and logical arrangements thereof. 3,644,923, 2-22-72, Cl. 340-347.
 Foerster, Roy P., to Bunker-Ramo Corporation. The. Fusible link matrix for programmable networks. 3,656,115, 4-11-72, Cl. 340-166.
 Foerster, Roy P., to Bunker-Ramo Corporation. The. Track and hold system. 3,694,668, 9-26-72, Cl. 307-235,000.
 Foerster, Wallace C.: See—
 Le Blanc, Leo J.; and Foerster, Wallace C., 3,681,841.
 Foerstner, Richard A., to Amana Refrigeration, Inc. Mechanical coupling arrangement. 3,702,386, 11-7-72, Cl. 219-10,550.
 Fogarty, Linda J.: See—
 Barnwell, Cleroa W.; and Fogarty, Linda J., 3,648,684.
 Fogarty, Robert L.: See—
 Baker, Ronald E.; Fogarty, Robert L.; and Slagel, Edwin C., 3,698,587.
 Fogautolube S.A.: See—
 Gendreau, Jacques C., 3,687,234.
 Fogel, Vladimir Alexandrovich: See—
 Plachenov, Tikhon Grigorievich; Belotserkovsky, Grigory Markovich; Dolgova, Ekaterina Nikolaevna; Ezhov, Jury Valentinovich; Fogel, Vladimir Alexandrovich; Benediktov, Andrei Pavlovich; and Avilov, Iliya Yakovlevich, 3,704,806.
 Fogelman, Edward I., to Diamond Shamrock Corporation. Expandable electrodes. 3,674,676, 7-4-72, Cl. 204-286,000.
 Fogg, Daniel A., to Gerber Products Company. Product bagging apparatus. 3,691,716, 9-19-72, Cl. 53-59,00w.
 Fogg, Lloyd C.: See—
 Bidwell, Dennis P.; Davies, Douglas R.; Hanley, John T., Jr.; Hart, William K.; Henderson, Thomas A.; Lovell, Thomas W.; and Fogg, Lloyd C., 3,665,447.
 Foggo, James Douglas, to French, Thomas, & Sons Limited. Apparatus for producing curtains. 3,649,412, 3-14-72, Cl. 156-443.
 Foggo, James Douglas, to Thomas French & Sons Limited. Curtains. 3,681,158, 8-1-72, Cl. 156-70,000.
 Fogiel, Adolf W., to Du Pont de Nemours, E. I., and Company. Preparation of open-cell polyurethane foams in the presence of 2-substituted 1,1,3,3-tetralkyl guanidines and an acid. 3,663,465, 5-16-72, Cl. 260-2,5.
 Fogiel, Adolf Wojciech: See—
 Aufdermarsh, Carl Albert, Jr.; and Fogiel, Adolf Wojciech, 3,674,721.
 Fogiel, Adolf Wojciech, to Du Pont de Nemours, E. I., and Company. Process for preparing flexible polyurethane foams and polyurethane coatings. 3,645,924, 2-29-72, Cl. 260-2,5.
 Fogiel, Max. Intrusion and fire detection system. 3,634,846, 1-11-72, Cl. 340-274.
 Fogle, Mark V.; and Horger, Georg, to National Cash Register Company. The. Encapsulation process by complex coacervation using inorganic polyphosphates and organic hydrophilic polymeric material. 3,697,437, 10-10-72, Cl. 252-316,000.
 Fogle, William A., Jr.; Jason, Joseph B.; and Head, Richard A. Steamer and soda-dispensing system. 3,677,173, 7-18-72, Cl. 99-357,000.
 Fogleboch, John Richard: See—
 Palmer, Fred Irwin; and Fogleboch, John Richard, 3,705,355.
 Fogleman, Floyd F.: See—
 Kline, Richard L.; and Fogleman, Floyd F., 3,706,430.
 Foglesong, Rosalina S.; and Jabloner, Harold, to Hercules Incorporated. Preparation of impact resistant styrene polymers. 3,632,675, 1-4-72, Cl. 260-876.
 Foglia, Andrew J.; and Tinger, Harold G., to Mobil Oil Corporation. Polymer blend compositions comprising polypropylene and ethylene/butene copolymer. 3,634,552, 1-11-72, Cl. 260-897.
 Foglia, Andrew J.; and Tinger, Harold G., to Mobil Oil Corporation. Heat shrinkable films of polypropylene and an ethylene/butene copolymer. 3,634,553, 1-11-72, Cl. 260-897.
 Fogman, Carl Bertil; Nelson, Hugh Wharton; and Tsao, Utah, said Nelson assor. to Combustion Engineering, Inc. and said Fogman and Tsao assors. to Lummus Company, The. Pollution controlled polysulfide recovery process. 3,650,888, 3-21-72, Cl. 162-30.
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 Fogt, Thomas H., to General Motors Corporation. Storage receptacle and agitator for refrigerator ice making machines. 3,659,827, 5-2-72, Cl. 259-110.
 Fogt, Thomas H.; Steiner, William R.; and Murphy, John M., to General Motors Corporation. Flexible plastic ice tray and storage container. 3,670,523, 6-20-72, Cl. 62-344,000.
 Fogt, Thomas H., to General Motors Corporation. Ejecting receptacle for plastic ice tray. 3,696,635, 10-10-72, Cl. 62-344,000.
 Fohl, Artur, to Rems-Werk Christian Foll & Sohne. Apparatus for machining pipes and the like. 3,648,313, 3-14-72, Cl. 10-96.

- Fohrman, Seymour F.: See—
 Chmela, John F.; and Fohrman, Seymour F., 3,679,103.
 Foirest, Jacques, to L'Oreal. Machine for assembling an insecticidal device. 3,645,063, 2-29-72, Cl. 53-53.
 Foister, Peter B.: See—
 Jenkinson, Brian E.; Watson, Geoffrey W.; and Foister, Peter B., 3,635,388.
 Foittl, Verena R.; and Traber, Walter, to Geigy Chemical Corporation. 1-Formyl-2-halogeno-azacycloalkenes and process for their production. 3,642,776, 2-15-72, Cl. 260-239.
 Foittl, Verena R.; and Traber, Walter, to Ciba-Geigy Corporation. Process for the production of 1-formyl-3 nitro-azacyclo-alkan-2-ones. 3,687,939, 8-29-72, Cl. 260-239,30r.
 Foittl, Verena R.; and Traber, Walter, to Ciba-Geigy Corporation. Process for the production of 3-amino-azacycloheptan-2-one. 3,687,940, 8-29-72, Cl. 260-239,30r.
 Foizner, Julius, to Newark Tool & Machine Limited. Adjustable stand. 3,690,608, 9-12-72, Cl. 248-371,000.
 Fokker, Herman, to U.S. Philips Corporation. Heating device for a vehicle utilizing a hot-gas engine. 3,656,295, 4-18-72, Cl. 60-24.
 Folden, Denver C.: See—
 Appleby, Paul E.; Folden, Denver C.; and Riggs, Robert S., 3,644,162.
 Appleby, Paul E.; Folden, Denver C.; and Kubinski, Donald C., 3,676,259.
 Appleby, Paul E.; Folden, Denver C.; and Peck, Arland A., 3,676,261.
 Appleby, Paul E.; Folden, Denver C.; and Stuhldreher, Paul R., 3,687,756.
 Folden, Denver C.; and Peck, Arland A., to Goodyear Tire & Rubber Company. The. Tire building apparatus with inflatable turn-up bladder. 3,687,779, 8-29-72, Cl. 156-401,000.
 Folden, Virgil A., Jr.; and Miller, Johny, Jr., to United States of America, Navy. Undersea pressure sensitive actuator. 3,669,311, 6-13-72, Cl. 222-3,000.
 Foldes, Gabriel F.; Neve, Peter W.; and Corbridge, Peter J., to Foster Wheeler Corporation. Fluidised bed burner control. 3,659,559, 5-2-72, Cl. 122-4.
 Foldes, Gabriel Francis; and Neve, Peter William, to Foster Wheeler Corporation. Steam boilers. 3,648,666, 3-14-72, Cl. 122-4.
 Foldes, Stephen: See—
 Florance, Douglas A.; Nordholm, Lloyd P.; and Foldes, Stephen, 3,641,393.
 Foley, Alan J.; and Gardner, Madison J., to Ormet Corporation. Interlocking ingot. 3,671,204, 6-20-72, Cl. 29-187,000.
 Foley, Charles F.; McCarthy, Charles D.; and Rabens, Neil W. Pan puzzles. 3,647,218, 3-7-72, Cl. 273-157.
 Foley, Charles F.; and McCarthy, Charles D. Table game top insert for changing contour of table game surface. 3,669,452, 6-13-72, Cl. 273-101,000.
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 Foley, David, to Lucas, Joseph, (Industries) Limited. Mounting means for switches instruments or the like. 3,662,850, 5-16-72, Cl. 180-90.
 Foley, David, to Lucas, Joseph, (Industries) Limited. Rocker switch interlock with spring latch member. 3,706,866, 12-19-72, Cl. 200-50,00c.
 Foley, Edward F., Jr.; Tsai, Shan-Pu; and Zatorsky, William A., to Du Pont de Nemours, E. I., and Company, mesne. Catalyst solution for electroless plating on nonconductors. 3,704,156, 11-28-72, Cl. 117-47,00a.
 Foley, James P. Leaf binding. 3,706,503, 12-19-72, Cl. 402-69,000.
 Foley, James W. B., to United States of America, Navy, mesne. Vehicle altitude control system. 3,646,507, 2-29-72, Cl. 340-3.
 Foley, John C.: See—
 Sobel, Jay E.; and Foley, John C., 3,652,749.
 Foley, John J., to Data Printer Corporation. Print control system for high speed printers. 3,656,427, 4-18-72, Cl. 101-93.
 Foley, John J.; Satas, Wallace J.; and Konkel, Joseph, to Data Printer Corporation. Ribbon control apparatus for high speed printers. 3,677,176, 7-18-72, Cl. 101-96,000.
 Foley, John T., to Witco Chemical Corporation. Emulsifier composition. 3,654,177, 4-4-72, Cl. 252-356.
 Foley, Laurance J. Pallet construction. 3,651,769, 3-28-72, Cl. 108-56.
 Foley, Michael I.: See—
 Manjikian, Serop; and Foley, Michael I., 3,657,115.
 Foley, Nelson D., to United States of America, Navy. Selective signal tuning device. 3,701,025, 10-24-72, Cl. 325-470,000.
 Foley, Richard G.; and Murray, James E., to Harris-Intertype Corporation. Direction reversing control for a machine control system. 3,671,827, 6-20-72, Cl. 318-162,000.
 Foley, Thomas P.: See—
 Carlson, Robert A.; and Foley, Thomas P., 3,672,600.
 Foley, Thomas P., to United States of America, Navy, mesne. Method for displaying the range detection capability of a search radar in a noisy environment. 3,680,106, 7-25-72, Cl. 343-18,00e.

Foley, Thomas Umbrecht, to RCA Corporation. Transmission line filter. 3,659,232, 4-25-72, Cl. 333-73.

Foley, William J.: See—
Schaad, Howard A.; and Randolph, Richard L., 3,660,760.

Foley, William R., Jr., to Teledyne, Inc. Method of hot rolling metal. 3,640,114, 2-8-72, Cl. 72-365.

Folgate, Kent R., to General Electric Company. Attitude control system. 3,705,977, 12-12-72, Cl. 235-150.250.

Foliage Company of America: See—
Schoenherr, Leonard W.; Schoenherr, Robert O.; and Schmock, John W., 3,647,604.

Folk, Kenneth Foster, to AMP Incorporated. Feeding and inserting apparatus. 3,641,646, 2-15-72, Cl. 29-203.

Folk, Kenneth Foster, to AMP Incorporated. Machine for assembling a connecting device to an electrical device. 3,641,650, 2-15-72, Cl. 29-203.

Folk, Kenneth Foster, to AMP Incorporated. Electrical bobbin with terminals. 3,701,961, 10-31-72, Cl. 336-192.000.

Folk, Ralph D. Semi-mounted mower for tractors. 3,650,098, 3-21-72, Cl. 56-15.5.

Folke, Carl Tage Evert, to AB Vibrasug. Vaporizer for disinfection chambers. 3,637,977, 1-25-72, Cl. 219-272.

Folkens, Dieter, to Olympia Werke AG. Printing mechanism for electrically operated office machines. 3,651,915, 3-28-72, Cl. 197-53.

Folkers, Karl; Catlin, Joseph C.; and Daves, Glenn Doyle, Jr. 6-Alkyl or 6-alkenyl-2,3-dimethoxy-5-hydroxy-1,4-benzoquinones and hydroquinones. 3,644,435, 2-22-72, Cl. 260-396.

Folkerth, Ilden R.: See—
Barklow, Clare E.; and Folkerth, Ilden R., 3,662,751.

Folkes, Hugh L., to Dunlop Holdings Limited. Mechanical belting. 3,666,085, 5-30-72, Cl. 198-193.000.

Folkes, Hugh L.; and Devenish, Graham F., to Dunlop Holdings Limited. Conveyors. 3,669,238, 6-13-72, Cl. 198-16.000.

Folkmann, Eduard; and Pammer, Erich, to Siemens Aktiengesellschaft. Method of precipitating layers of semiconducting or insulating material from a flowing reaction gas or from a flowing dopant gas upon heated semiconductor crystals. 3,658,585, 4-25-72, Cl. 117-201.

Follett, Archie E.: See—
Glasgow, David Gerald; and Follett, Archie E., 3,702,839.

Follett, Harold E. Novelty bathing garment. 3,675,245, 7-11-72, Cl. 2-67.000.

Follett, Harold W. Portable parking indicator. 3,668,626, 6-6-72, Cl. 340-51.000.

Follett, John Le Roy. Safety valve for liquid pressure cylinders. 3,645,286, 2-29-72, Cl. 137-68.

Follette, Neil: See—
Bowles, Arnold G.; and Follette, Neil, 3,698,843.

Folline, John M.: See—
Charters, Robert L.; Bartlemay, James M.; Folline, John M.; and Donich, Thomas G., 3,701,120.

Folling, Norman D., to Universal Oil Products Company. Pneumatic adjustment system for seat back panel. 3,652,126, 3-28-72, Cl. 297-284.

Follows, Alan G.: See—
Garofano, Norman R.; and Follows, Alan G., 3,705,790.

Follstaedt, Donald W.; and Burns, Robert S., to Armco Steel Corporation. Internal bead forging device for continuous welded tube mill. 3,635,391, 1-18-72, Cl. 228-24.

Follstaedt, Donald W.; and Pinson, Richard D., to Armco Steel Corporation. Prevailing torque locknut. 3,683,989, 8-15-72, Cl. 151-21.00b.

Folmer, Orville F., Jr., to Continental Oil Company. Method for the detection of change in density of a carrier gas and apparatus therefor. 3,697,750, 10-10-72, Cl. 250-43.50d.

Folser, Karl: See—
Plasser, Franz; Theurer, Josef; and Folser, Karl, 3,685,589.

Folsom, Harold A.: See—
Dehne, Clarence A.; and Folsom, Harold A., 3,672,306.

Folson, Henry J.; Lucas, Daniel R., Jr.; Staats, William A.; and Tucker, James I., to Mattel, Inc. Toy flight simulator and display stand. 3,691,669, 9-19-72, Cl. 46-1.00h.

Folson, Henry J.; Boxley, Denis V.; Kingsbury, James; Kraitzer, Shlomo; Soukakis, George; and Whittington, Jimmie L., to Mattel, Inc. Remotely controlled wheeled toy vehicle system. 3,706,153, 12-19-72, Cl. 46-202.000.

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Foltz, Robert E., to Lawrence Brothers, Inc. Door pivot device. 3,662,493, 5-16-72, Cl. 49-388.

Foltz, Thomas R.; Hegarty, Gerald R.; Hopkins, Ervin W.; and Wilcox, Joseph C., to Armour and Company. Sausage maturity measuring device. 3,696,662, 10-10-72, Cl. 73-81.000.

Fomichev, Viktor Nikolaevich: See—
Bresler, Semen Efimovich; Kazbekov, Embek Nikolaevich; and Fomichev, Viktor Nikolaevich, 3,705,345.

Fomin, Alexandr Pavlovich: See—

Potak, Yakov Mikhailovich; Orzechovsky, Julian Felixovich; Sachkov, Vladimir Vladimirovich; Kagan, Efim Solomonovich; Valdman, Anna Ivanovna; Shpagina, Nadezhda Nikolaevna; Poplavko-Mikhailov, Mikhail Vasilievich; Fomin, Alexandr Pavlovich; and Natapov, Smon Leibovich, 3,690,869.

Fomin, Georgy Georgievich: See—
Sokolov, Evgeny Vyacheslavovich; Yashkin, Eduard Petrovich; Sysoev, Vadim Ivanovich; Kozhevnikov, Rody Savvich; Chabanov, Alim Ivanovich; Shinkarenko, Mikhail Ivanovich; Grinchuk, Petr Stepanovich; Fomin, Georgy Georgievich; and Rusaev, Vladimir Ivanovich, 3,686,907.

Fomin, Igor Alexandrovich. Lubricator for oiling the contact surfaces of electrical connector elements of leading in current wires in drill. 3,642,098, 2-15-72, Cl. 184-14.

Fomina, Alexandr Sergeevna: See—
Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itskson, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorievich, 3,705,793.

Fonden, Per Borje; and Walander, Karl Ove Torgny. Aircraft arresting device. 3,670,997, 6-20-72, Cl. 244-110.00c.

Fondu, Michel Paulin Valere; and Willems, Marcel Guillaume August, to Lever Brothers Company. Margarine fat containing randomized fat component. 3,634,100, 1-11-72, Cl. 99-122.

Fong, Leong Q.: See—
Hurd, Stanley E.; and Fong, Leong Q., 3,647,266.

Fong, William: See—
Broadway, Alexander Richard William; Fong, William; and Rawcliffe, Gordon Hindle, 3,673,477.

Broadway, Alexander Richard William; Fong, William; and Rawcliffe, Gordon Hindle, 3,686,553.

Fonken, Gunther S.: See—
Herr, Milton E.; Murray, Herbert C.; and Fonken, Gunther S., 3,649,453.

Herr, Milton E.; Murray, Herbert C.; and Fonken, Gunther S., 3,706,801.

Fono, Andrew; and Eagle, Robert E., to May, Otto B., Inc. 4-Phenylamino-3-nitro benzene N-(3-acetylphenyl) sulfonamides. 3,639,670, 2-1-72, Cl. 260-397.7.

Fonofilm Industri A/S: See—
Anneberg, Wilhelm; Clemmensen, Ellen; Gudmandsen, Robert; and Scheibel, Axel, 3,700,829.

Fontaine, John G. Composite seat and switch. 3,704,352, 11-28-72, Cl. 200-85.00r.

Fontaine, John Garfield. Captive air brake for vehicles. 3,674,321, 7-4-72, Cl. 303-28.000.

Fontaine, Louis: See—
Bayssat, Michel; Fontaine, Louis; and Grand, Marcel, 3,659,014.

Boschetti, Eugene; Molho, Darius; and Fontaine, Louis, 3,651,091.

Boschetti, Eugene; Molho, Darius; and Fontaine, Louis, 3,651,223.

Molho, Darius; Boschetti, Eugene; and Fontaine, Louis, 3,651,089.

Fontaine, Paul Isidore, to International Nickel Company, Inc., The. Desulphurizing plant alloy. 3,690,873, 9-12-72, Cl. 75-134.00f.

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Fontan, Andre; and Benac, Rene. Straddle tractors. 3,677,572, 7-18-72, Cl. 280-39.000.

Fontana, Anthony J., to General Electric Company. Plastic spring toggle action. 3,694,607, 9-26-72, Cl. 200-172.00r.

Fontana, Charles L.: See—
Heffernan, Hubert John; and Fontana, Charles L., 3,668,666.

Fontana, Frank J., to Stewart-Warner Corporation. Caster brake. 3,687,241, 8-29-72, Cl. 188-74.000.

Fontanella, Luigi; Testa, Emilio; and Maffii, Giulio, to Lepetit S.p.A.-Gruppo per la Ricerca Scientifica e la Produzione Chimica Farmaceutica. Benzoic acid esters of 1-phenyl-1-benzyl-2-methyl-3-dimethylamino-propanol. 3,637,808, 1-25-72, Cl. 260-477.

Fontanelli, Renzo: See—
Sianesi, Dario; and Fontanelli, Renzo, 3,665,041.

Sianesi, Dario; Fontanelli, Renzo; and Caporiccio, Gerardo, 3,683,027.

Fontannaz, Marcel. Stand for showcase display of goods in boxes or packages. 3,687,280, 8-29-72, Cl. 206-45.150.

Fontenelli, John L., to Diamond International Corporation. Safety closure cap. 3,656,645, 4-18-72, Cl. 215-9.

Fonti, Louis, Jr.: See—
Graham, Charles P.; Fonti, Louis, Jr.; and Martinez, Arnold M., 3,642,535.

Fontijn, Leendert A.: See—
Le Poole, Jan B.; Fontijn, Leendert A.; and Bok, Alfred B., 3,638,231.

Fontijn, Leendert Antonius, to Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek. Screen combination. 3,664,843, 5-23-72, Cl. 96-116.000.

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Food Automation Service Techniques, Inc.: See—
Witt, Allan E.; and Sunn, George M., 3,694,669.

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Lynn, Lawrence; Hunnell, John W.; and Leger, Carl B., 3,667,523.

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Dillon, Janus J., 3,654,941.

Dillon, Janus J., 3,665,539.

Dillon, Janus J., 3,670,365.

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Dillon, Janus J., 3,703,744.

Snowden, Bryan T., 3,631,563.

Snowden, Bryan T., 3,657,768.

Food Industries Research & Engineering, Inc.: See—
Carlsen, Earl W., 3,694,996.

Food Methods, Inc.: See—
Gibson, Lloyd R., 3,642,496.

Food Protein Concentrates, Inc.: See—
Zhumkhawala, Yusuf M., 3,678,994.

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Boggs, Weldon C.; and Turcotte, Charles A., 3,666,107.

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Hauser, Hans, 3,673,889.

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Foot Mineral Company: See—
Baker, Donald O., 3,637,370.

Hanawalt, Barry Douglas, 3,634,144.

Smith, William Novis, Jr., 3,642,436.

Smith, William Novis, Jr., 3,649,701.

Smith, William Novis, Jr., 3,655,332.

Smith, William Novis, Jr., 3,671,605.

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Forance, Ronald B.; Madden, William F.; and Gaucher, Clair H. Sanitary bag holder. 3,679,125, 7-25-72, Cl. 229-55.000.

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Biloco, Georges A., 3,638,792.

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Panzer, Hans P.; Yare, Robert S.; and Forbes, Malcolm R., 3,669,679.

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Griffin, James R.; and Forbes, Norman A., 3,639,920.

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Reiss, Carroll R.; Forbriger, Arthur W.; and Patel, Kanu I., 3,653,797.

Forbro Design Corporation: See—
Gately, Joseph R., 3,670,246.

Gately, Joseph R., 3,678,370.

Kiviranna, John, 3,659,189.

Nercessian, Sarkis, 3,675,114.

Nercessian, Sarkis, 3,704,381.

Forby, Beverly B. Adjustable weaving loom. 3,636,987, 1-25-72, Cl. 139-34.

Force Control Industries, Inc.: See—
Lewis, William E.; and Dobrinich, Dennis, 3,638,773.

Forch, Friedrich: See—
Vockenhuber, Karl; Pammer, Gottfried; Krob, Erwin; Forch, Friedrich; Revy-Belvard, Peter; and Valoh, Alfons, 3,656,703.

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Kroll, Harry; Therrien, Alderic R.; and Forchielli, Americo L., 3,654,206.

Forchini, James F.: See—
Furlong, Donn B.; Luzaich, Samuel; and Forchini, James F., 3,647,317.

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Ford, Allen G. Skirted air cushioned planing hull. 3,677,213, 7-18-72, Cl. 114-67.00a.

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Desaulniers, Charles W.; Ford, Cheryl A.; and Mayo, Richard W., 3,651,030.

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Ford, Duane B.: See—
Walker, Grant W.; Ford, Duane B.; and Meinzer, Lester N., 3,666,055.

Walker, Grant W.; and Ford, Duane B., 3,680,662.

Walker, Grant W.; Ford, Duane B.; Meinzer, Lester N.; and Larsen, Reid S., 3,695,583.

Young, Bruce O.; Walker, Grant W.; Ford, Duane B.; and Seegmiller, Wan, 3,672,657.

Young, Bruce O.; Walker, Grant W.; Ford, Duane B.; and Seegmiller, Wan, 3,674,115.

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Bassett, Kirk W.; and Ford, Frank P., 3,679,524.

Ford, Frederick M.; and Silhavy, Raymond J., to Oak Electro/Netics Corporation. Stepping assembly and circuit. 3,663,827, 5-16-72, Cl. 307-41.

Ford, Frederick M., to Oak Electro/Netics Corporation. Electromechanical clutch. 3,684,068, 8-15-72, Cl. 192-84.00t.

Ford, George L.: See—
Oliver, Robert K.; and Ford, George L., 3,677,533.

Ford, Gerald Paul: See—
Brennan, James Leo; and Ford, Gerald Paul, 3,668,180.

Ford, Hugh, to Davy Plastics Machinery Limited. Processing thermoplastics material. 3,632,091, 1-4-72, Cl. 259-187.

Ford, James A.: See—
Caule, Elmer J.; Sperry, Philip R.; Pryor, Michael J.; and Ford, James A., 3,698,964.

Crane, Jacob; and Ford, James A., 3,694,273.
 Ford, James A.; Saunders, Stuart R.; Caule, Elmer J.; and McLain, Charles D., to Olin Mathieson Chemical Corporation. Copper alloy cleaning process. 3,646,946, 3-7-72, Cl. 134-3.
 Ford, James A., to Kirach Company. Unitary traverse rod. 3,682,226, 8-8-72, Cl. 160-330.000.
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 Baptista, John L.; Rauner, Frederick J.; and Ford, John A., Jr., 3,699,135.
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 Ford, Maynard; and Davis, Albert, to Park-Cramer Company. Traveling pneumatic cleaner with electrostatic charge reducing means and method. 3,665,694, 5-30-72, Cl. 57-34.00r.
 Ford Motor Company: See—
 Akfirat, John C.; and Gardon, Robert, 3,694,182.
 Akman, Ahmet Recai, 3,659,500.
 Allison, William D., 3,649,042.
 Andrews, David, 3,678,964.
 Arning, Klaus H.; and Rumpf, Robert J., 3,694,890.
 Aronoff, Elihu; and Labana, Santokh S., 3,679,447.
 Baker, Thomas D.; and Ojala, William K., 3,678,909.
 Barton, David W.; and Muller, George H., 3,638,985.
 Beard, Garry E., 3,638,627.
 Beard, Garry E., 3,659,501.
 Beard, Kenneth A.; Daykin, Theodore W.; and Jagger, Gordon H., 3,665,772.
 Bell, John M.; and Mooney, Robert A., 3,691,641.
 Berry, James I., 3,664,711.
 Berry, James L.; and Janiz, Zbigniew J., 3,668,524.
 Berry, James L., 3,698,250.
 Bishop, Irving N.; Mosher, Richard G.; and Simko, Aladar O., 3,696,798.
 Blech, Joab J.; and Paluszny, Antoni, 3,666,000.
 Blech, Joab J., 3,678,991.
 Bogle, David M., 3,679,144.
 Bohan, William J.; and Sarafa, Hani N., 3,665,778.
 Borneman, Karl J.; Byler, Richard E.; Roberts, Paul G.; and Smalinskas, Steps, 3,706,240.
 Boyer, Wesley D., 3,666,989.
 Bozoian, Michael, 3,639,896.
 Bozoian, Michael, 3,648,062.
 Buehrig, Gordon M., 3,694,025.
 Burlant, William J.; and Tsou, Ivan H., 3,632,399.
 Burlant, William J., 3,632,400.
 Cagnon, Eugene C., 3,701,913.
 Cassidy, Donald J., 3,647,228.
 Cazabon, Dennis C.; and Dunbar, John R., 3,672,625.
 Ciampa, Fred A.; and Mazzola, Sergio J., 3,645,647.
 Colvin, Alex D.; McNitt, David H.; and Turner, Allen H., 3,679,930.
 Crossland, Francis D., 3,645,150.
 Denton, Ronald T., 3,690,174.
 Dickie, Ray A.; and Pett, Robert A., 3,652,722.
 Dickie, Ray A.; and Labana, Santokh S., 3,699,185.
 Diehl, Roy E., 3,678,905.
 Diehl, Roy E., 3,704,867.
 Duffy, James J., 3,667,346.
 Duffy, James J., 3,672,259.
 Engel, Elton D., 3,655,928.
 Engel, Elton D.; and Miller, Richard H., 3,655,929.
 Fellers, John F.; Hirsch, James E.; and McLaughlin, Ernest O., 3,641,210.
 Fellers, John F.; Hirsch, James E.; and McLaughlin, Ernest O., 3,642,939.
 Fellers, John F.; Labana, Santokh S.; and Newman, Seymour, 3,652,476.
 Fellers, John F.; Newman, Seymour; and Golovoy, Amos, 3,652,723.
 Fellers, John F.; Labana, Santokh S.; and Newman, Seymour X., 3,661,828.
 Fitzsimons, William D.; and Radin, Bernard G., 3,647,016.
 Flaherty, Bernard M.; and Knight, Lewis L., 3,638,765.
 Forsting, Bernard; Hellriegel, Edmund; and Pfadenhauer, Dieter, 3,700,076.
 Francis, Reid Eugene, 3,700,184.
 Frey, Stuart M.; Gebhard, Harold C.; and Rado, Julius, 3,659,381.
 Galaniuk, Alexander H., 3,659,515.
 Garrison, John W.; and Schlef, Charles L., 3,650,789.
 Gawel, Walter J., 3,699,909.
 Gebhard, Harold C.; and Schueren, William B., 3,670,454.

Gennick, William, 3,679,077.
 Gennyk, Walter; Martin, Raymond E.; Swift, George B.; Wiggins, Robert L.; and Wolfe, Raymond W., 3,702,510.
 Gilchrist, Allan E., 3,679,615.
 Gilchrist, Allan E., 3,699,030.
 Glance, Patrick M.; and Ashley, Thomas S., 3,638,164.
 Glance, Patrick M., 3,693,471.
 Goodale, William B., 3,696,613.
 Graef, Kurt, 3,687,481.
 Gropp, Karl H., 3,698,366.
 Groves, Donald W., 3,678,778.
 Hamburg, Douglas R., 3,673,476.
 Hansen, Gunnar W., 3,646,731.
 Hansen, Gunnar W., 3,678,663.
 Harrison, Robert S.; and Lunsford, Max W., 3,682,148.
 Harvey, James E.; Irland, Max J.; and Lindberg, Victor L., 3,647,285.
 Heintz, Walter K.; and Unnewehr, Lewis E., 3,700,943.
 Heintz, Walter K., 3,700,944.
 Hertz, Kuri J., 3,678,552.
 Hideg, Laszlo, 3,679,186.
 Hoffmann, Donald R., 3,679,249.
 Hoffmann, Donald R.; and White, Charles E., 3,691,799.
 Holloway, Henry, 3,647,197.
 Howard, Michael R., 3,678,557.
 Jackson, Paul Louis, 3,674,654.
 Jaimee, Angelo, 3,638,625.
 Jania, Zbigniew J., 3,640,301.
 Jania, Zbigniew J.; and Vanderberg, Lawrence J., 3,671,081.
 Jania, Zbigniew J., 3,679,270.
 Janosi, Francis L., 3,646,831.
 Janosi, Francis L., 3,678,779.
 Jensen, Finn Benzon, 3,665,777.
 Johnson, Olin B.; and Labana, Santokh S., 3,649,337.
 Johnson, Olin B.; and Labana, Santokh S., 3,659,003.
 Johnson, Olin B.; and Labana, Santokh S., 3,660,143.
 Johnson, Olin B.; and Labana, Santokh S., 3,660,144.
 Johnson, Olin B.; and Labana, Santokh S., 3,660,145.
 Johnson, Olin B.; and Labana, Santokh S., 3,660,355.
 Johnson, Olin B.; and Labana, Santokh S., 3,660,371.
 Johnson, Olin B.; and Labana, Santokh S., 3,689,307.
 Johnson, Olin B.; and Labana, Santokh S., 3,689,308.
 Johnson, Olin B.; and Labana, Santokh S., 3,689,309.
 Johnson, Olin B.; and Labana, Santokh S., 3,689,310.
 Johnson, Olin B.; and Labana, Santokh S., 3,697,312.
 Johnson, Olin B.; and Labana, Santokh S., 3,701,679.
 Kennedy, Peter J., 3,679,887.
 Kepner, Larry A., 3,640,153.
 Kittredge, Frank M., 3,678,806.
 Kitzner, Ernest W., 3,672,537.
 Knowles, James, 3,672,697.
 Koch, Wolf H., 3,697,840.
 Labana, Santokh S., 3,660,359.
 Labana, Santokh S., 3,676,405.
 Lemieux, George E., 3,678,784.
 Lemieux, George E.; and Smalinskas, Steps, 3,688,606.
 Lemieux, George E., 3,693,480.
 Leonard, Allan S., 3,656,869.
 Leonard, Allan S., 3,688,600.
 Lewicki, Reginald T., 3,639,091.
 Liang, Po-Lung, 3,661,035.
 Liang, Po-Lung; and Pierce, Staley L., Jr., 3,692,432.
 Malett, N. William, 3,678,910.
 Marshall, John R., 3,638,626.
 Misner, Howard R., 3,632,275.
 Nordstrom, John D.; and Zelek, Carolyn B., 3,650,811.
 Nordstrom, John D.; and Zelek, Carolyn B., 3,650,812.
 Nordstrom, John D.; and Zelek, Carolyn B., 3,650,813.
 Ojala, William K., 3,670,708.
 Ojala, William K., 3,672,342.
 Olsen, Ralph A., 3,678,777.
 Radin, Bernard G., 3,641,544.
 Radin, Bernard G., 3,644,885.
 Radin, Bernard G.; and Vanderberg, Lawrence J., 3,668,630.
 Rahnke, Christian J., 3,664,766.
 Rao, Vemulapalli D.; and Telang, Yeshwant P., 3,659,861.
 Rao, Vemulapalli D.; Telang, Yeshwant P.; and White, Jerry E., 3,679,459.
 Ratnikas, Jonas, 3,695,652.
 Reno, Frederick, 3,646,829.
 Repko, Louis L.; and Ronzi, Richard C., 3,678,906.
 Rich, James L.; and Weintraub, Marvin H., 3,647,744.
 Sandusky, Bernard J., 3,667,434.
 Schlichter, William L., 3,666,305.
 Schrock, Larry R., 3,646,830.
 Scott, Gerald C., 3,680,092.
 Searles, John J., 3,642,014.
 Shachter, Moses, 3,654,820.
 Silver, Arnold H.; and Zimmerman, James E., 3,696,287.
 Simonelli, Chris P., 3,679,259.
 Smith, Arthur G.; and Turner, Allen H., 3,679,572.

Sobkow, William J., 3,702,706.
 Stahlberg, Hans J., 3,678,785.
 Stark, Clarence C.; and Barrera, Carlos M., 3,645,352.
 Stark, John E.; and Vanostveen, Adrian G., 3,696,186.
 Staudenmayer, Karl, 3,699,824.
 Stockton, Thomas Rowe, 3,693,703.
 Trower, William E., 3,656,410.
 Turner, Allen H., 3,650,932.
 Turner, Allen H., 3,650,933.
 Ulics, George, 3,678,707.
 Ulics, George, 3,707,082.
 Unnewehr, Lewis E., 3,697,839.
 Vagi, Louis D.; and Westerdale, Maurice M., 3,678,635.
 Van Wicklin, Warren A., Jr., 3,636,794.
 Vartanian, Richard D., 3,646,920.
 Vartanian, Richard D., 3,678,907.
 Vartanian, Richard D., 3,699,936.
 Wallis, George C., 3,636,320.
 Watts, Wilson J., 3,646,644.
 Woodward, Gary F., 3,659,499.
 Woodward, Gary F., 3,659,780.
 Ford, Paul L.: See—
 Stump, Harry C.; and Ford, Paul L., 3,649,301.
 Stump, Harry C.; and Ford, Paul L., 3,650,767.
 Ford, Ralph E.; and Ternes, Donald J., to Evans Products Company, mesne. Door panel with plastic insert. 3,634,986, 1-18-72, Cl. 52-316.
 Ford, Robert Brough; and Lloyd, Martin Herbert, to International Standard Electric Corporation. Electrically operated door bolt. 3,656,327, 4-18-72, Cl. 70-133.
 Ford, Stanley Denis: See—
 Dugdale, Ronald Arthur; and Ford, Stanley Denis, 3,634,045.
 Dugdale, Ronald Arthur; Ford, Stanley Denis; and Maskrey, John Thomas, 3,678,334.
 Ford, Thomas R.; and Martin, Edward T., III, to Mattel, Inc. Method of forming films. 3,681,489, 8-1-72, Cl. 264-307.000.
 Ford, Wade L. Firearm shoulder support and strap attachment. 3,665,632, 5-30-72, Cl. 42-71.00r.
 Fordertechnik Hamburg Harry Lassig: See—
 Arnmann, Gerhard, 3,651,962.
 Laosig, Harry; and Grosshauser, Anton, 3,685,233.
 Fordham, Edwin C. Method and apparatus for protecting and enhancing the growth of young shellfish sets. 3,650,244, 3-21-72, Cl. 119-4.
 Fordyce, Homer E., to Marley Company, The. Splash bar for cooling tower fill assembly. 3,647,191, 3-7-72, Cl. 261-111.
 Forecast, Inc.: See—
 Muench, Charles A., 3,651,858.
 Foreman, Christopher Roy; and Shipman, Patricia Violet, to Patent Protection Limited. Power driven air filter. 3,676,985, 7-18-72, Cl. 55-317.000.
 Foreman, Gordon T., to GTE Sylvania Incorporated. Gravity enhanced seal. 3,689,356, 9-5-72, Cl. 16-149.000.
 Foreman, Kenneth C. Track roller assembly. 3,685,871, 8-22-72, Cl. 305-28.000.
 Foreman, Robert J., to Raytheon Company. Coaxial magnetron slot mode suppressor. 3,706,910, 12-19-72, Cl. 315-39.510.
 Foreman, Robert W.; and Pontius, Jon S., to Park Chemical Company. Coating composition for preventing carburization of steel parts with subsequent water wash-off capacity. 3,661,820, 5-9-72, Cl. 260-22.00a.
 Foremost-McKesson, Inc.: See—
 Hutton, Jerry T.; and Palmer, Gaylord M., 3,639,170.
 Forenta, Limited: See—
 North, William L., 3,654,714.
 North, William L.; and Beckett, William J., 3,679,106.
 Forentino, Guido: See—
 Olivei, Alfredo; and Forentino, Guido, 3,636,470.
 Forest, Edward, to Xerox Corporation. Electrophoretic imaging method employing a periodic electric field. 3,657,091, 4-18-72, Cl. 204-181.
 Forest, Sheldon R. Compacting and forming apparatus. 3,651,754, 3-28-72, Cl. 100-91.
 Forestal Enterprises: See—
 Forestal, Robert J.; and Hanley, Jack W., 3,695,389.
 Forestal, Richard F. Collapsible barricade assembly. 3,687,419, 8-29-72, Cl. 256-64.000.
 Forestal, Robert J.; and Hanley, Jack W., to Forestal Enterprises. Collapsible ladder assembly. 3,695,389, 10-3-72, Cl. 182-22.000.
 Forestek, Clarence W. Method for producing fissures in metallic surfaces of chromium. 3,701,698, 10-31-72, Cl. 156-18.000.
 Forester, Howard B. Pessaries. 3,683,904, 8-15-72, Cl. 128-127.000.
 Foret, P. G., Inc.: See—
 Foret, Pierre G.; and Donohoe, John W., 3,689,065.
 Foret, Pierre G.; and Donohoe, John W., to Foret, P. G., Inc. Ticket reader. 3,689,065, 9-5-72, Cl. 271-74.000.
 Forfors A.G.: See—
 Croset, Louis Paul, 3,638,454.
 Forg, John H.: See—
 Payet, George Louis; and Forg, John H., 3,660,013.
 Forg, Wolfgang: See—

Etzbach, Volker; and Forg, Wolfgang, 3,702,063.
 Forgacs, Joseph: See—
 Forgacs, Joseph; and Cosgrove, Albert S. (said Cosgrove assor. to said), 3,683,068.
 Forgacs, Joseph; and Cosgrove, Albert S., said Cosgrove assor. to said Forgacs, Joseph. Compositions containing Scopulariopsis brevicaulis on an alkaline substrate and the use thereof in the control of hemorrhagic syndrome in poultry. 3,683,068, 8-8-72, C. 424-93.000.
 Forge, Charles O.: See—
 Riddle, John B.; Bergh, Arnot B.; and Forge, Charles O., 3,643,155.
 Forgeng, William D.: See—
 Farrell, John W.; and Forgeng, William D., 3,660,081.
 Forget, Edmond, to Etablissement Kogerim. Biologically active forms of pyridoxine coenzymes. 3,663,557, 5-16-72, Cl. 260-295.
 Forgione, Anthony F.: See—
 Camilleri, Louis T.; and Forgione, Anthony F., 3,706,710.
 Forgione, Peter Salvatore; and Smyth, Nelda Marjorie. Isolation of enzymes from aqueous media by means of polyanions. 3,695,999, 10-3-72, Cl. 195-63.000.
 Forhman-Bentchkowsky, Dov, to Intel Corporation. Floating gate transistor and method for charging and discharging same. 3,660,819, 5-2-72, Cl. 317-235.
 Fork, Frank W., to Robertson, H. H., Company. Hold-down means for underfloor access housing. 3,676,568, 7-11-72, Cl. 174-49.000.
 Fork, Frank W., to Robertson, H. H., Company. Multiple electrical service underfloor access housing. 3,701,837, 10-31-72, Cl. 174-50.000.
 Fork, Kurt; and Fork, Werner, to Siemens Aktiengesellschaft. Control system for a cycloid propeller for ships. 3,704,961, 12-5-72, Cl. 416-111.000.
 Fork, Richard Lynn: See—
 Chandross, Edwin Arthur; Fork, Richard Lynn; Lamola, Angelo Anthony; and Tomlinson, Walter John, III, 3,668,663.
 Chandross, Edwin Arthur; Fork, Richard Lynn; Kaminow, Ivan Paul; and Tomlinson, Walter John, III, 3,689,264.
 Fork, Werner: See—
 Fork, Kurt; and Fork, Werner, 3,704,961.
 Fork, Werner, to Voith, J. M., G.m.b.H. Control system for a blade-wheel propeller. 3,700,349, 10-24-72, Cl. 416-111.000.
 Forkardt, Paul, Kommanditgesellschaft: See—
 Blattry, Hans; and Kimm, Wolfgang, 3,656,773.
 Blattry, Johann, 3,659,864.
 Blattry, Johann; and Beckers, Heinrich, 3,704,022.
 Scharfen, Hans; and Feustel, Wolfgang, 3,682,492.
 Scharfen, Hans; and Steinberger, Josef, 3,698,729.
 Forkner, John H. Method of packaging two or more discrete food-stuffs. 3,655,410, 4-11-72, Cl. 99-171.
 Forlani, Franco; and Rodari, Gianpiero, to Honeywell Information Systems, Italia. Convertible NAND/NOR gate. 3,691,401, 9-12-72, Cl. 307-215.000.
 Forlini, Matthew, to Research Frontiers, Inc. Light valves with high frequency excitation. 3,655,267, 4-11-72, Cl. 350-150.
 Form-Eze Systems, Inc.: See—
 Franklin, James W.; Wells, David R.; and Schell, Elmer H. (said Wells assor. to), 3,638,904.
 Forma, Anthony P., to Lowell Molding Corporation. Method of making shoes. 3,651,527, 3-28-72, Cl. 12-142.
 Forma Scientific, Inc.: See—
 Decker, Thomas K., 3,637,006.
 Formac International, Inc., mesne: See—
 Schoonover, Richard H. A., 3,703,321.
 Formaini, Richard E., to Allied Chemical Corporation. Liquid fertilizer suspension containing ureaform. 3,677,736, 7-18-72, Cl. 71-28.000.
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 Formax, Inc.: See—
 Lekan, Henry N., 3,675,387.
 Formex Ltd.: See—
 Brosseau, Louis Philippe, 3,643,909.
 Formica Corporation: See—
 Alert, Jerry George; and Mauldin, Robert Daniel, 3,637,408.
 Giddings, Sydney Arthur; and Valerius, Paul Nicholas, 3,701,706.
 Kelly, Peter Bernard, 3,701,711.

- Oliver, Jay Thomas, 3,677,876.
 Senior, Alwyn; and Power, George Edward, 3,660,201.
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 Formmaster Limited: See—
 Dyke, Leslie Alexander, 3,655,491.
 Formo, Jerome L., to Plastics, Inc. Apparatus for rotational molding of laminated hollow structures. 3,652,368, 3-28-72, Cl. 156-501.
 Formspray Company: See—
 Charchian, Loris J.; and Lech, Thaddeus, 3,693,770.
 Fornasiero, Paolo: See—
 Balugani, Fabio; and Fornasiero, Paolo, 3,660,771.
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 Formerod, Andre: See—
 Sauterel, Gerard; and Formerod, Andre, 3,664,265.
 Forney, Edgar Wilmot, Jr., to AMP Incorporated. Tuned coaxial device. 3,663,901, 5-16-72, Cl. 333-97.
 Forney Engineering Company: See—
 Davidson, Cecil W., 3,646,416.
 Paredes, Candelario, 3,696,804.
 Paredes, Candelario, 3,706,969.
 Forney, George David, Jr., to Codex Corporation. Interleavers. 3,652,998, 3-28-72, Cl. 340-172.5.
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 Forney, Le Roy S.: See—
 Jurewicz, Anthony T.; and Forney, Le Roy S., 3,651,126.
 Forney, LeRoy S., to Mobil Oil Corporation. Oxidation of 5-carboxyphthalide to trimellitic acid. 3,632,832, 1-4-72, Cl. 260-523.
 Foroulis, Zisis Andrew, to Esso Research and Engineering Company. Inhibition of corrosion using alkyl aryl ketones. 3,640,895, 2-8-72, Cl. 252-396.
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 Paucha, Gene, 3,693,328.
 Forrat, Francis, to Commissariat a l'Energie Atomique. Apparatus for growing crystalline bodies. 3,650,701, 3-21-72, Cl. 23-273.
 Forrer, Gilbert R., to Babcock & Wilcox Company. The Apparatus for storing and exposing a radioactive source. 3,655,983, 4-11-72, Cl. 250-106.
 Forrer, Homer W., to Mead Corporation. The Article carrier having improved partition structure. 3,669,306, 6-13-72, Cl. 220-113,000.
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 Forrest, Norman, to Tenneco Chemicals, Inc. Synthetic suede. 3,655,497, 4-11-72, Cl. 161-62.
 Forrest Paschal Machinery Company: See—
 Brown, John J., Jr., 3,669,283.
 Thornton, La Verne; and Stuart, Gerald L., 3,666,093.
 Forrest, Robert B.: See—
 Helava, Uuno V.; and Forrest, Robert B., 3,678,582.
 Forrest, Willie Mae. Duo heating pad. 3,680,563, 8-1-72, Cl. 128-402,000.
 Forrester, Harold C.; and Tatum, Harold E., to Louisville Bedding Company. Wrap-around mechanism for the stop motion means of a multi-needle sewing machine. 3,698,335, 10-17-72, Cl. 112-243,000.
 Fors, Juan Rovira. Panty type garment and method of knitting the same on a flat knitting machine. 3,654,779, 4-11-72, Cl. 66-171.
 Forscher, Frederick: See—
 Purdy, David L.; Nyce, Andrew C.; and Forscher, Frederick, 3,661,653.
 Forscher, Alex S.; and Trepasso, Louis E., to Celanese Corporation. Anti-soiling polyester textile material. 3,668,000, 6-6-72, Cl. 117-138.8.
 Forschner, Friedrich; Kurzhals, Hans; and Muller, Karl-Heinz, to Bosch, Robert, G.m.b.H. Housing for gear-pumps or motors. 3,661,480, 5-9-72, Cl. 418-179,000.
 Forschungsgemeinschaft fur technisches Glas e.V.: See—
 Greil, Erich, 3,647,506.
 Forschungsinstitut fur Textiltechnologie Karl-Marx-Stadt: See—
 Scholtis, Walter; Ploch, Siegfried; Schattauer, Friedrich; Schonfuss, Martin; and Heilmann, Horst, 3,646,781.
 Forgren, Kiell Rudolf, to United Shoe Machinery Company AB. Means for sealing a joint, filling a space and the like. 3,655,213, 4-11-72, Cl. 277-237.
 Forshaw, Richard: See—
 Glover, Peter David; Forshaw, Richard; and Steele, William Henry, 3,640,253.
 Glover, Peter David; Forshaw, Richard; and Steele, William Henry, 3,650,252.
 Forsheda Gummifabrik AB: See—
 Malmstrom, Sven Erik, 3,685,838.
 Malmstrom, Sven Erik, 3,703,296.
 Forsheda Gummifabrik Aktiebolag: See—
 Malmstrom, Sven-Erik, 3,664,675.
 Forshree, Lloyd T. Auto and aircraft safety liners. 3,638,992, 2-1-72, Cl. 296-39.
 Forslund, Paul A. Device for producing ionized air. 3,665,248, 5-23-72, Cl. 317-4.
 Forslund, Erik Torsten, to Ostbergs Fabriks AB. Cutting blade for cutting tree trunks. 3,631,906, 1-4-72, Cl. 144-34.
 Forslund, Goran P. A.: See—
 Backlund, Bernt S.; Forslund, Goran P. A.; and Eriksson, Eleon G., 3,665,522.
 Forsner, Bo Ake: See—
 Jakobsson, Karl Folke Olof; and Forsner, Bo Ake, 3,696,927.
 Forssblad, Lars-Henrik; and Jerkman, Per, to Korsnas-Marma Aktiebolag. Method of producing highly absorbent cellulose. 3,677,886, 7-18-72, Cl. 162-72,000.
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 Forst, Oswald, GmbH: See—
 Schubert, Ludwig, 3,646,593.
 Forst, Steve Michael; and Reinheimer, Horst Alfred, to Bell Telephone Laboratories, Incorporated. Semiconductor target structure for image converting device comprising an array of silver contacts having discontinuous nodular structure. 3,676,741, 7-11-72, Cl. 317-234,000.
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 Forsten, Irving; and Buckley, William J., Jr., to United States of America, Army. Silent hand weapon. 3,665,803, 5-30-72, Cl. 89-7,000.
 Forster, Brian Michael: See—
 Pagdin, Brian Colin; and Forster, Brian Michael, 3,651,690.
 Forster, Eckehard: See—
 Giepel, Hans; Forster, Eckehard; and Heinemann, Wilfried, 3,704,610.
 Forster, Eric O., to Esso Research and Engineering Company. Microwave heating apparatus. 3,643,054, 2-15-72, Cl. 219-10,55.
 Forster, Eric O., to Esso Research and Engineering Company. Compositions with controlled electrical properties. 3,666,876, 5-30-72, Cl. 174-36.
 Forster, Ewald: See—
 Ruf, Peter; and Forster, Ewald, 3,634,322.
 Forster, Franz, to Linde Aktiengesellschaft. Hydrostatic machine. 3,680,312, 8-1-72, Cl. 60-53,00a.
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 Forster, Friedrich M. O. Apparatus for repairing defects in metallic workpieces by automatic means. 3,676,959, 7-18-72, Cl. 51-165,000.
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 Forster, Hans-Joachim M.; and Katz, Klaus, to Daimler-Benz Aktiengesellschaft. Servo-steering system for motor vehicles. 3,687,014, 8-29-72, Cl. 92-33,000.
 Forster, Herbert: See—
 Maylandt, Helmut; Forster, Herbert; and Juhasz, Josef, 3,699,410.
 Speith, Georg; Landgraf, Helmut; and Forster, Herbert, 3,648,761.

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 Forster, Peter: See—
 Martini, Karl; Forster, Peter; Bierbaum, Dieter; and Halm, Gunther, 3,664,472.
 Forster, Robert H. B., to British Oxygen Company Limited, The. Method of operating a refractory regenerative furnace. 3,633,893, 1-11-72, Cl. 263-52.
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 Forster, Wolfgang: See—
 Berthold, Heinz; Kamm, Kurt; and Forster, Wolfgang, 3,653,487.
 Forster, Wolfgang C., to Reichhold Chemicals, Inc. Method of isomerizing 4-cyclo-hexene-1,2-dicarboxylic acid anhydrides. 3,679,710, 7-25-72, Cl. 260-346,300.
 Forsterlug, Hans: See—
 Pfaffenberger, Erwin; and Forsterlug, Hans, 3,697,179.
 Forsthoff, Ernst Ludwig, to Lever Brothers Company. Anti-dandruff hair preparation. 3,694,547, 9-26-72, Cl. 424-94,000.
 Forsting, Bernard; Hellriegel, Edmund; and Pfadenhauer, Dieter, to Ford Motor Company. Side protection device for motor vehicles. 3,700,076, 10-24-72, Cl. 188-1,000.
 Forstrom, Richard J.: See—
 Blackshear, Perry L.; Forstrom, Richard J.; Dorman, Frank D.; and Nicoloff, Demetre M., 3,667,069.
 Forsvarets Fabrikverk: See—
 Aronsson, Lars Bertil; Arnell, Anders Bertil; and Molitor, Ulf W., 3,667,393.
 Medin, Gunnar F. A.; and Olsson, Erik G., 3,667,390.
 Forsyth, Bruce Adam: See—
 Pryor, David Ernest; and Forsyth, Bruce Adam, 3,670,085.
 Pryor, David Ernest; and Forsyth, Bruce Adam, 3,670,086.
 Forsyth, Frank J., Jr., to Frost, Jack A. Floor plug. 3,636,495, 1-18-72, Cl. 339-14.
 Forsyth, George E., to Rohm & Haas Company. Flame resistant acrylic sheet containing isobornyl acrylate or methacrylate. 3,634,554, 1-11-72, Cl. 260-901.
 Forsyth Industries, Inc.: See—
 Lenz, Robert E.; and Wargo, Stephen J., 3,638,012.
 Forsyth, John, Co., Ltd.: See—
 Dowsett, Reg H., 3,693,191.
 Forsyth, John P.; and Forsyth, Robert W., to Lockheed Aircraft Corporation. Articulated vehicle coupling. 3,653,687, 4-4-72, Cl. 280-476.
 Forsyth, John P.; and Forsyth, Robert W. Articulated vehicle. 3,659,666, 5-2-72, Cl. 180-6.2.
 Forsyth, Robert W.: See—
 Forsyth, John P.; and Forsyth, Robert W., 3,653,687.
 Forsyth, John P.; and Forsyth, Robert W., 3,659,666.
 Forsythe, Alan K., to Rocket Research Corporation. Method and apparatus for aspirating fluids. 3,640,645, 2-8-72, Cl. 417-174.
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 Fort, Godfrey, to Imperial Chemical Industries Limited. Nitrogen containing polymers. 3,652,629, 3-28-72, Cl. 260-448.2.
 Fort Howard Paper Company: See—
 Schneider, Donald J., 3,642,502.
 Zapfe, Paul C., 3,675,476.
 Fort, Larry W.; and Marshall, Connie T. Apparatus to protect a phase-locked-loop against loss of synchronizing signal. 3,688,210, 8-29-72, Cl. 331-1,00a.
 Fort, Larry W.; and Marshall, Connie T., to Telex Computer Products, Inc. Synchronizing a phase-locked loop from phase encoded signals. 3,697,884, 10-10-72, Cl. 331-1,00a.
 Fort Smith Table & Furniture Co.: See—
 Mitchell, Paul H., 3,662,694.
 Fort Wayne Tool & Die Inc.: See—
 Eminger, Robert J.; and Brown, William N., 3,636,990.
 Fortcamp, James A.: See—
 Verderber, Joseph A.; Fortcamp, James A.; and Kolibas, James A., 3,634,007.
 Forte, Anthony D.: See—
 Fletcher, Roy W.; and Forte, Anthony D., 3,661,104.
 Fletcher, Roy W.; and Forte, Anthony D., 3,677,208.
 Forte, Peter W. Time delayed theft alarm for a carrying case. 3,656,144, 4-11-72, Cl. 340-283.
 Fortener, Edward J.: See—
 Rivers, Richard D.; Byers, Thomas W.; and Fortener, Edward J., 3,677,289.
 Forter, Willy; Henrard, Armand; Kehrler, Fritz; Keller, Urs Martin; and Wasem, Hans, to Sandoz Ltd. Phenyl-azo-naphthol compounds of low solubility. 3,671,514, 6-20-72, Cl. 260-203.
 Forterre, Gerard E., to Lignes Telegraphiques et Telephoniques. Microstrip ring-shaped resonators and microwave generators using the same. 3,702,445, 11-7-72, Cl. 331-107,000.
 Fortescue, Peter; and Shanstrom, Raymond T., to Gulf Oil Corporation, mesne. Means for supporting fissile material in a nuclear reactor. 3,703,437, 11-21-72, Cl. 176-87,000.
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 Fortier, Jean R.; and Wrobel, Donald P., to Federal Pacific Electric Company. Range limiter for a thermostat. 3,670,284, 6-13-72, Cl. 337-360,000.
 Fortin, Marcel: See—
 Townsend, Eric Jean; and Fortin, Marcel, 3,698,778.
 Fortin, Michael J.; Latchford, Joseph T.; and Vanden Heuvel, Marinus T., to Fortin-Latchford Limited. Molding machine. 3,635,612, 1-18-72, Cl. 425-60.
 Fortin Plastics, Inc.: See—
 Ayres, Ronald L., 3,668,053.
 Fortin, Terry D. Method of stretching acrylic plastics and product. 3,632,841, 1-4-72, Cl. 264-1.
 Fortin-Latchford Limited: See—
 Fortin, Michael J.; Latchford, Joseph T.; and Vanden Heuvel, Marinus T., 3,635,612.
 Fortini, Jack G.; Blair, Walter A.; and Grodsky, Gerold M., to Blair/Johnson, Inc. Simple protein and method of deriving it from liver using an aqueous solution of a divalent metal ion. 3,701,768, 10-31-72, Cl. 260-112,000.
 Fortino, Samuel, to Gem Electric Mfg. Co., Inc. Electric flasher. 3,681,730, 8-1-72, Cl. 337-92,000.
 Fortis, Luis R. Pagan. Centrifugal pumps. 3,689,931, 9-5-72, Cl. 415-206,000.
 Fortman, William R.: See—
 Bunting, Charles W.; Fortman, William R.; and Ash, Albert H., 3,658,318.
 Fortmann, Manfred, to Interatom, Internationale Atomreaktorbau GmbH. Reversing rupture disc for protecting equipment from excessive pressure and method of manufacture. 3,667,644, 6-6-72, Cl. 220-89.
 Fortner, William D., to Cavins Co., The. Torque or motion responsive apparatus. 3,675,751, 7-11-72, Cl. 192-150,000.
 Fortney, Neal R. Animal temporary hold-down device. 3,635,199, 1-18-72, Cl. 119-96.
 Fortsch, Francis J.: See—
 Winyard, Rodney W.; Fortsch, Francis J.; and Braun, Vincent C., 3,648,424.
 Fortson, Warren D. Wire stringing rig. 3,680,807, 8-1-72, Cl. 242-94,000.
 Fortunato, Vincent, to Henschel-Steinau Co. Shelf extender. 3,647,078, 3-7-72, Cl. 211-134.
 Fortunato, Vincent, to Henschel-Steinau Co. Dump bin. 3,685,775, 8-22-72, Cl. 248-174,000.
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 Fortunski, Anthony C., to Fargo Machine & Tool Company. Plow tool. 3,663,120, 5-16-72, Cl. 416-224.
 Forum Incorporated: See—
 Johnson, Manuel C., 3,633,025.
 Forsy, Edward Louis; Lofftus, Leroy A.; Malueg, Richard Milton; and Montalbano, Albert F., to Acron Industries, Inc. Wide band stabilizer. 3,703,999, 11-28-72, Cl. 248-20,000.
 Fosdick, Gene D.: See—
 Erwin, Curtis L., Jr.; and Fosdick, Gene D., 3,643,943.
 Fosco International Limited: See—
 Austin, George Wesley, 3,677,325.
 Beane, Peter Austin, 3,642,503.
 Cooley, Kenton Parkes; and Jago, Edward John, 3,672,427.
 Gotheridge, John Ernest; Morgan, Jack; and Jago, Edward John, 3,662,809.
 Layland, Kenneth Frederick, 3,656,989.
 Fosco Trading, A.G.: See—
 Rausch, Paul Gilger, 3,680,827.
 Fosfolbolaget: See—
 Mollerstedt, Bengt O. P.; and Sulcs, Eduard, 3,639,643.
 Foshee, William R.: See—
 Cady, James C.; and Foshee, William R., 3,652,114.
 Fosker, George Robert; and Naylor, John Herbert Charles, to Beecham Group Limited. Esters of 6-aminopenicillanic acid. 3,663,563, 5-16-72, Cl. 260-306.7.
 Foslén, Floyd L.; and Nelson, Terry N. Container seal. 3,685,681, 8-22-72, Cl. 220-45,000.
 Foss, Richard L.: See—
 Winter, Henry A., Jr.; Williams, Arthur M., Jr.; and Foss, Richard L., 3,670,831.
 Foss, Robert Paul, to Du Pont de Nemours, E. I., and Company. Polymerization of hydrocarbon dienes with lithium-sodium alloys. 3,679,776, 7-25-72, Cl. 260-879,000.
 Foss, Rudolph G. Tapering tool for fiberglass pipe. 3,683,725, 8-15-72, Cl. 82-4,000.
 Foss, Rudolph G., to Unique Industries, Inc. Tapering tool for tubular articles. 3,704,639, 12-5-72, Cl. 82-4,000.
 Foss, Warren M. Titanium dioxide pigment composition and a method for making the same. 3,649,322, 3-14-72, Cl. 106-300.

- Foss, Warren M., to N L Industries, Inc. Photoconductive titanium dioxide material. 3,698,894, 10-17-72, Cl. 96-1.500.
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- Fossel, Spencer M., to Unimed, Inc. Treatment of shock. 3,632,765, 1-4-72, Cl. 424-263.
- Fosshag, Wolfgang: *See—*
Balzau, Gerhard; and Fosshag, Wolfgang, 3,642,178.
- Fossum, Eric R., to General Time Corporation. Quiet operating electromagnetic clutch or brake. 3,650,361, 3-21-72, Cl. 192-39.
- Fossum, Lars; and Wangberg, Lennart, to International Standard Electric Corporation. Conversion device for data presentation on television screens. 3,696,392, 10-3-72, Cl. 340-324.00a.
- Foster, Alan, to International Computers Limited. Magnetic recording systems. 3,665,484, 5-23-72, Cl. 346-74.
- Foster, Alan, to U.S. Philips Corporation. Bilateral, gate-controlled semiconductor device. 3,696,273, 10-3-72, Cl. 317-235.00r.
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- Foster Brothers Manufacturing Company: *See—*
Eakins, Paul W., 3,636,572.
- Foster, Christopher G.: *See—*
Sicard, L. John; and Foster, Christopher G., 3,638,123.
- Foster, Coleman Arthur; and Taylor, David Johnston, to Morris, Philip, Incorporated. Method for making swab applicators. 3,661,666, 5-9-72, Cl. 156-69.000.
- Foster, Daniel S., to Gale, W. D., Inc. Air compression equipment for therapeutic use. 3,646,934, 3-7-72, Cl. 128-212.
- Foster, David A., to General Motors Corporation. Retainer for spherical adapter. 3,659,910, 5-2-72, Cl. 308-9.
- Foster, Donald J.: *See—*
Tobler, Erich; and Foster, Donald J., 3,636,114.
- Foster, Edson P. Felting needle. 3,641,636, 2-15-72, Cl. 28-4.
- Foster, Edwin E.; Foster, Wilbur A.; and Foster, Thomas E., to Majik-Ironers, Inc. Ironing apparatus. 3,699,673, 10-24-72, Cl. 38-30.000.
- Foster, Ernest. Revolving door lock mechanism and trap floor assembly. 3,667,404, 6-6-72, Cl. 109-8.000.
- Foster, Frederick C.: *See—*
Wakefield, Lynn B.; and Foster, Frederick C., 3,632,563.
- Foster, George A., Jr.: *See—*
Anker, Charles A.; Foster, George A., Jr.; and Loader, Mary Ann, 3,653,925.
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- Foster, George N., to Union Carbide Corporation. α -Olefin polymer compositions. 3,647,738, 3-7-72, Cl. 260-32.6.
- Foster, Gordon F.; and Stong, Guy E., to Corning Glass Works. Glass-ceramic cements comprising silicon carbide. 3,634,111, 1-11-72, Cl. 106-40.
- Foster Grant Co., Inc.: *See—*
Brewer, Charles C.; and Killian, Charles R., 3,639,495.
- Brewer, Charles C.; and Killian, Charles R., 3,692,858.
- Finestone, Arnold B.; Miller, Roger; and Niechwiadowicz, Michal, 3,635,852.
- Finestone, Arnold B.; and Niechwiadowicz, Michal, 3,657,162.
- Niechwiadowicz, Michal; and Finestone, Arnold B., 3,632,288.
- Sims, Willard B., 3,668,171.
- Foster, Harold M.: *See—*
Cryer, John; Foster, Harold M.; and Rees, Thomas C., 3,658,906.
- Foster, Harold Marvin, to Sherwin-Williams Company, The. 2-Methoxy-5-methyl-m-xylylenebis(isothiuronium chloride). 3,634,513, 1-11-72, Cl. 260-564.
- Foster, Harold S.: *See—*
Davidson, William E.; Walker, Wendell C.; and Foster, Harold S., 3,685,181.
- Foster, Harry C., to Hersey Products, Inc. Irrigating apparatus. 3,685,735, 8-22-72, Cl. 239-109.000.
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Sills, Stanley Albert; and Foster, Hugh, 3,635,910.
- Foster, Jack D.; and Osterink, Larry M., to Sylvania Electric Products, Inc. Mode locked frequency doubled laser. 3,648,193, 3-7-72, Cl. 331-94.5.
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- Foster, James Bernard Turner. Pocket clip for ammunition. 3,669,249, 6-13-72, Cl. 206-3.000.
- Foster, James Craig, Jr.: *See—*
Gilbert, Jerry E., 3,693,634.
- Foster, James Harold, to GTE Automatic Electric Laboratories Incorporated. Memory expansion arrangement in a central processor. 3,703,708, 11-21-72, Cl. 340-172.500.
- Foster, James L., Jr., to Tartan Industries, Inc. Drag bits. 3,672,455, 6-27-72, Cl. 175-412.000.
- Foster, John A., to Clark, J. L., Manufacturing Co. Plastic cover with hinged closure and molding dies therefor. 3,675,812, 7-11-72, Cl. 220-31.00s.
- Foster, John A., to J. L. Manufacturing Co. Apparatus for converting molten thermoplastic in cup-like articles. 3,692,456, 9-19-72, Cl. 425-412.000.
- Foster, John A.; and Filipowicz, Carl A., to Clark, J. L., Manufacturing Co. Hinged plastic closure for sheet metal cans. 3,695,481, 10-3-72, Cl. 220-315.000.
- Foster, John R.; and Hunt, Larry R., to Von Duprin, Inc. Torque resisting axle assembly. 3,703,741, 11-28-72, Cl. 16-112.000.
- Foster, John S.: *See—*
Salisbury, John D.; Gustavson, Marvin R.; and Foster, John S., 3,636,323.
- Foster, Joseph E., Jr. Sheet transporting assembly. 3,633,903, 1-11-72, Cl. 271-74.
- Foster, Karl; and Seidel, Joseph, to Westinghouse Electric Corporation. Bonded core structure comprising a plurality of glass coated electrical steel sheets. 3,670,278, 6-13-72, Cl. 336-213.000.
- Foster, Karl; and Seidel, Joseph, to Westinghouse Electric Corporation. Process of making glass coated electrical steel sheets. 3,687,742, 8-29-72, Cl. 148-113.000.
- Foster, Keith, to A. F. Hydraulics Limited. Power transmission systems. 3,667,224, 6-6-72, Cl. 60-51.
- Foster, Kenneth M.; and Lofredo, Antony, to Airco/Boc Cryogenic Plants Corporation. Process for helium recovery and purification. 3,653,220, 4-4-72, Cl. 62-22.
- Foster, Larry R.; and Cogan, Jerry A., Jr., to Deering Milliken Research Corporation. Fugitively colored solid materials. 3,634,131, 1-11-72, Cl. 117-161.
- Foster, Laverne H.; Fox, Robert M.; and Webber, Charles H., to General Motors Corporation. Vehicle body roof structure. 3,635,519, 1-18-72, Cl. 296-137.
- Foster, Lawrence H. Method for cooking foods using infrared radiation. 3,682,643, 8-8-72, Cl. 99-1.000.
- Foster, Leigh Curtis, to Zenith Radio Corporation. High-resolution linear optical scanning system with traveling wave acoustic lens. 3,676,592, 7-11-72, Cl. 178-7.600.
- Foster, Leslie W.: *See—*
Boehm, Kurt B.; Foster, Leslie W.; and Tweet, Ole E., 3,688,856.
- Foster, Luther M.: *See—*
Blakeslee, A. Eugene; Foster, Luther M.; and Plaskett, Thomas S., 3,673,064.
- Blum, Samuel E.; Foster, Luther M.; and Plaskett, Thomas S., 3,642,443.
- Foster Manufacturing Co., Inc.: *See—*
Cruse, Lee H., 3,642,249.
- Foster, Manus R.; Kerns, Clyde W.; and Sengbush, Raymond L. Processing of geophysical data. 3,689,874, 9-5-72, Cl. 340-15.50g.
- Foster, Merrill J., to Marine Industries, Incorporated. Liquid level switch. 3,657,556, 4-18-72, Cl. 307-118.
- Foster, Newton C., to Westinghouse Electric Corporation. Half ester of an epoxy resin and unsaturated dicarboxylic acid anhydride. 3,657,196, 4-18-72, Cl. 260-78.4.
- Foster, Newton C., to Westinghouse Electric Corporation. Bonding insulation material with half ester of an epoxy resin and unsaturated dicarboxylic acid anhydride composition. 3,686,045, 8-22-72, Cl. 156-53.000.
- Foster Poultry Farms: *See—*
Geyer, Robert L., 3,688,466.
- Foster, Raymond O. Method and article for detecting the fertile period. 3,699,005, 10-17-72, Cl. 195-103.50r.
- Foster, Richard E. Converting rotary motion into unidirectional motion. 3,653,269, 4-4-72, Cl. 74-84.
- Foster, Richard Gregory; Joy, David Richard; Hepworth, Paul; and Dart, Edward Charles, to Imperial Chemical Industries Limited. Production of polycyclic hydrocarbons. 3,641,173, 2-8-72, Cl. 260-666.
- Foster, Richard Gregory; and Joy, David Richard, to Imperial Chemical Industries Limited. Production of polycyclic hydrocarbons. 3,642,923, 2-15-72, Cl. 260-666.
- Foster, Richard Gregory; and Hepworth, Paul, to Imperial Chemical Industries Limited. Polycyclic dienes. 3,646,232, 2-29-72, Cl. 260-666.
- Foster, Richard Gregory; and Hepworth, Paul, to Imperial Chemical Industries Limited. Vulcanisable copolymers. 3,660,363, 5-2-72, Cl. 260-80.78.
- Foster, Richard Greogry: *See—*
Dart, Edward Charles; Foster, Richard Greogry; and Hepworth, Paul, 3,660,508.
- Foster, Richard N.: *See—*
Foster, Richard N.; and Butt, John B. (said Butt assor. to said), 3,674,666.
- Foster, Richard N. Process for producing propylene. 3,647,657, 3-7-72, Cl. 204-168.
- Foster, Richard N.; and Butt, John B., said Butt assor. to said Foster, Richard N. Enhancing reaction rates. 3,674,666, 7-4-72, Cl. 204-164.000.
- Foster, Richard W.: *See—*
Kossen, Dale J.; Foster, Richard W.; and Benson, Charles R., 3,641,396.
- Foster, Robert D.: *See—*

- Ketchbaw, Thomas E.; Foster, Robert D.; and Arvanetakis, Kiriako, 3,691,385.
- Foster, Robert D. Method for processing eggs. 3,684,531, 8-15-72, Cl. 99-196.000.
- Foster, Ronald L. Adjustable boot jack. 3,652,009, 3-28-72, Cl. 223-116.
- Foster, Roy Vivian: *See—*
Bays, David Edmund; and Foster, Roy Vivian, 3,647,881.
- Foster, S. Harold; and Walker, Wendell C., to General Electric Company. Iron with overtemperature protection means. 3,665,152, 5-23-72, Cl. 219-253.
- Foster, Seth: *See—*
Smith, Donald J.; and Foster, Seth, 3,696,320.
- Foster, Theodore T.: *See—*
Talbot, Meldon L.; and Foster, Theodore T., 3,673,232.
- Foster, Thomas E.: *See—*
Foster, Edwin E.; Foster, Wilbur A.; and Foster, Thomas E., 3,699,673.
- Foster, Thomas V.; and Nebelung, Herman H., to Emhart Corporation. Holding and cooling device for glassware molds. 3,653,870, 4-4-72, Cl. 65-356.
- Foster, Thomas W.; and Schafer, George, to Fibreboard Corporation. Carton end closure. 3,662,945, 5-16-72, Cl. 229-38.000.
- Foster, Vincent F., to Inductosyn Corporation. Multi-layer polyphase winding member and transformer. 3,668,587, 6-6-72, Cl. 336-123.
- Foster, Vincent F.; and Schreitz, Robert A., to Inductosyn Corporation. Tensioning device for position measuring transformer. 3,696,667, 10-10-72, Cl. 73-143.000.
- Foster, Walter E.: *See—*
Ashby, Eugene C.; Foster, Walter E.; and Redman, Horace E., 3,639,104.
- Foster Wheeler Corporation: *See—*
Bell, Alan, 3,687,115.
- Bell, Alan, 3,696,793.
- Berman, Irwin, 3,647,103.
- Berman, Irwin, 3,648,876.
- Bow, William J.; and Pollard, Richard J., 3,705,494.
- Burcin, Robert J.; Johnson, Orville L.; and Mouton, Rene P., 3,682,501.
- Clarke, Kenneth W.; Kinnsch, Donald L.; and McClay, Archibald R., 3,657,911.
- Connell, John M., 3,688,747.
- Costello, Raymond M.; and Beckman, Eugene B., 3,640,250.
- Foldes, Gabriel F.; Neve, Peter W.; and Corbridge, Peter J., 3,659,559.
- Foldes, Gabriel Francis; and Neve, Peter William, 3,648,666.
- Hill, William G.; and Stevens, Kenneth, 3,643,059.
- Hill, William G., 3,678,239.
- Hill, William G.; and Bromwich, Robert A. C., 3,688,076.
- Holt, Kenneth, 3,687,116.
- Newitts, Walter F.; and Johnson, Richard C., 3,688,746.
- Romanowski, Chester J.; and Guido, Paul V., 3,638,034.
- Stevens, William D., 3,662,716.
- Stevens, William D., 3,675,629.
- Wadiak, Michael; and Higham, George T., 3,643,701.
- Willis, Cullie B., Jr., 3,701,341.
- Winkin, Justin P., 3,661,124.
- Winkin, Justin P., 3,662,719.
- Wolowodiuk, Walter; and Stern, Tobias, 3,656,543.
- Zorrilla, Eduardo P.; and Long, William P., 3,707,186.
- Foster Wheeler John Brown Boilers Limited: *See—*
Roberts, Daniel Frank Thomas, 3,670,140.
- Foster, Wilbur A.: *See—*
Foster, Edwin E.; Foster, Wilbur A.; and Foster, Thomas E., 3,699,673.
- Foster, William A.: *See—*
Moore, Edgar E.; and Foster, William A., 3,706,629.
- Foster, William Bees: *See—*
McCoy, John Gerald; and Foster, William Bees, 3,694,116.
- Foster, William C. Animal feeder and timing mechanism therefor. 3,653,360, 4-4-72, Cl. 119-51.12.
- Foster, William Rees: *See—*
Brown, Joseph Patrick; and Foster, William Rees, 3,639,302.
- Foster-Pegg, Richard W., to Struthers Energy Systems, Inc. Gas liquefaction. 3,672,179, 6-27-72, Cl. 62-5.000.
- Foster-Pegg, Richard W. Jet engine air compressor. 3,705,491, 12-12-72, Cl. 60-39.550.
- Foster-Pegg, Richard Wigmore, to Cities Service Company. Carbon black production process. 3,663,172, 5-16-72, Cl. 23-209.400.
- Fotel, Inc.: *See—*
Baker, Elton N., 3,657,983.
- Foti, Sam J.; and Neff, Charles Y. Flexible metal hose. 3,682,203, 8-8-72, Cl. 138-135.000.
- Fotland, Richard A.; Straughan, Virgil E.; and Cameron, John, to Horizons Incorporated. Copying process. 3,658,533, 4-25-72, Cl. 96-48.000.
- Foto-Mem, Inc.: *See—*
Eng, Albert, 3,679,304.
- Laura, James F.; and Eng, Albert, 3,689,894.
- Foucar, Harry G., to United States Steel Corporation. Method for the production of high purity, high pressure carbon dioxide from a mixture of low pressure mixed acidic gas. 3,643,451, 2-22-72, Cl. 62-28.
- Foucault, Pierre. Mixing plant for preparing materials comprising coated elements. 3,693,942, 9-26-72, Cl. 259-2.000.
- Fouche, Jean: *See—*
Cometti, Andre; Fouche, Jean; and Le Goff, Yves, 3,696,103.
- Fouche, Jean Clement Louis, to Rhone-Poulenc S.A. 10-(Aminoalkyl) dibenzo [a,d] cycloheptadienes and the salts thereof. 3,658,815, 4-25-72, Cl. 260-253.
- Fouche, Yvon; and Dansac, Jean, to Compagnie Internationale pour l'Informatique. Symbol display system for messages received in signal form. 3,656,147, 4-11-72, Cl. 340-324.
- Fouche, Yvon Pierre Jean: *See—*
Guilhem, Robert Germain; and Fouche, Yvon Pierre Jean, 3,686,572.
- Foucher, Walter D., Jr.; and Norman, Thomas W., to Texaco Inc. Catalyst and method of making same. 3,681,260, 8-1-72, Cl. 252-465.000.
- Foudriat, Donald P.: *See—*
Holmes, John F.; and Foudriat, Donald P., 3,633,884.
- Fougeray, Jean: *See—*
Giffard, Louis; and Fougeray, Jean, 3,640,664.
- Fougeray, Jean Henri Roger; and Giffard, Louis Henri Jules. Dipping form for making skin-type articles from plastic material. 3,679,342, 7-25-72, Cl. 425-275.000.
- Fougere, Guy L.; Rothery, John L.; and Miller, Raymond H., to Federal Products Corporation, mesne. Physical displacement measuring system utilizing impedance changing the frequency of an oscillatory circuit. 3,670,243, 6-13-72, Cl. 324-57.00r.
- Fougere, Guy L. Coin selector utilizing a coin impeller. 3,701,405, 10-31-72, Cl. 194-101.000.
- Foulard, Jean; and Galey, Jean, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Treatment of molten metal by injection of gas. 3,689,048, 9-5-72, Cl. 266-34.00t.
- Foulds, George, to Sun Oil Company. Synthesis of DL-threonine. 3,651,136, 3-21-72, Cl. 260-534.
- Foulke, Donald Gardner: *See—*
Meyer, Andre; and Foulke, Donald Gardner, 3,668,083.
- Zuntini, Franco; Gioria, Jean M.; and Foulke, Donald Gardner, 3,637,474.
- Foulkes, John D.; and Bender, Warren G., to Wescom, Inc., mesne. Tone disabler. 3,647,993, 3-7-72, Cl. 179-170.2.
- Foults, Jonathan Asa, to Scovill Manufacturing Company. Filling and valving assembly for radiator system. 3,700,166, 10-24-72, Cl. 236-34.500.
- Fountain City Safety Corporation: *See—*
Harris, Julian Taylor; and Turner, Thomas Adkins, 3,697,974.
- Fountain Industries, Inc.: *See—*
Syverson, Martelle J., 3,692,165.
- Fouquart, John, to Photosystems Corporation. Three dimensional and/or time sequence X-ray apparatus. 3,671,745, 6-20-72, Cl. 250-61.000.
- Fouquet-Werk Frauz & Planck: *See—*
Ehrenberg, Hermann, 3,679,245.
- Nuber, Otto; and Norz, Richard, 3,646,779.
- Four-Phase Systems, Inc.: *See—*
Faith, Jack L.; Boysel, Lee L.; and Murphy, Joseph P., 3,702,945.
- Fournarakis, Solon: *See—*
Anthony, Peter C.; Colt, James G.; and Fournarakis, Solon, 3,663,984.
- Fourneau, Jean-Pierre; and Delourme, Jean, to Laboratoires Houde. 1,2,3,4, Tetrahydro isoquinoline 1 carboxylic acids. 3,654,282, 4-4-72, Cl. 260-286.
- Fourneron, Aime. Exercising apparatus. 3,672,361, 6-27-72, Cl. 128-71.000.
- Fournier, Daniel; and Strang, Urho A., to Dann Bee Corporation. Article testing apparatus. 3,664,195, 5-23-72, Cl. 73-432.
- Fournier, Eugene. Filter having a flexible wall for filtering liquids. 3,670,898, 6-20-72, Cl. 210-356.000.
- Fournier, Gilbert C. F.: *See—*
Alleaume, Jean H.; and Fournier, Gilbert C. F., 3,686,920.
- Fournier, Roger H., to Norton Company. Automatic workpiece loader and unloader. 3,658,190, 4-25-72, Cl. 214-1.
- Fournillon, Germain, to Electronique Marcel Dassault. Device for carrying a flat electronic apparatus by an aircraft. 3,641,252, 2-8-72, Cl. 174-52.
- Fourniquet, Jean: *See—*
Beau, Raymond; and Fourniquet, Jean, 3,655,580.

- Fournier, Roger, to Regie Nationale des Usines Renault and Automobiles Peugeot. Acid coppering bath. 3,704,213, 11-28-72, Cl. 204-52.00r.
- Fourreau, Jean: *See*—
Corringer, Jean; and Fourreau, Jean, 3,654,152.
- Fouse, Samuel S.: *See*—
Weimer, Charles L.; and Fouse, Samuel S., 3,683,313.
- Foust, Tilman Harrison, Jr.; and Zell, Dale Richard, to AMP Incorporated. Flat cable connectors having two rows of contacts. 3,663,922, 5-16-72, Cl. 339-17.
- Foutz, Terrence K., to Financial Federation, Inc. Envelope structure. 3,658,239, 4-25-72, Cl. 229-71.
- Fowell, Ian Gordon George, to Cooper Bros., (Bordesley) Limited. Container carrying trucks. 3,631,998, 1-4-72, Cl. 214-313.
- Fowke, Ronald T.: *See*—
Hokanson, Lyle W.; and Fowke, Ronald T., 3,670,827.
- Fowler, Alan B.: *See*—
Fang, Frank F.; and Fowler, Alan B., 3,679,492.
- Fowler, Arnold L.: *See*—
Findlay, David; and Fowler, Arnold L., 3,672,255.
- Fowler, Dean A., to Cache Valley Dairy Association. Cheese mold apparatus. 3,700,373, 10-24-72, Cl. 425-195.000.
- Fowler, Donald W., to Textiles, Inc. Overedging apparatus. 3,669,046, 6-13-72, Cl. 112-121.150.
- Fowler, Dwight W. Sewer tap. 3,663,042, 5-16-72, Cl. 285-199.
- Fowler, Eliot Patrick; and Greaves, Richard William, to United Kingdom Atomic Energy Authority. Logarithmic converter. 3,683,205, 8-8-72, Cl. 307-230.000.
- Fowler, Eliot Patrick, to United Kingdom Atomic Energy Authority. Apparatus for measuring the value of an alternating electrical signal of any wave form. 3,683,275, 8-8-72, Cl. 324-115.000.
- Fowler, Elmer, to Barnes, Malcolm L. Walker which has a rocking movement. 3,633,906, 1-11-72, Cl. 272-70.3.
- Fowler, Gerald: *See*—
McHugh, John; and Fowler, Gerald, 3,675,566.
- Fowler, Grady C.; and Venable, Ben F. Automatic egg collection system for poultry nests. 3,650,246, 3-21-72, Cl. 119-48.
- Fowler, John H.; and Barnett, Robert D., to Rockwell Manufacturing Company. Valve. 3,696,831, 10-10-72, Cl. 137-246.120.
- Fowler, John Hyde: *See*—
Bake, Earl A.; Pool, Eldert B.; Hankosky, Andrew; Milleville, Bertram J.; and Fowler, John Hyde, 3,685,536.
- Fowler, Knobbe & Martens: *See*—
Noble, Robert L., 3,695,140.
- Fowler, Leslie E., to Beckman Instruments, Inc. Rectilinear recording arrangement for direct writing oscillographs. 3,683,410, 8-8-72, Cl. 346-117.00a.
- Fowler, Neal V., Jr.; Gallagher, Arthur P.; and Chance, Calvin L., Jr., to Vibration & Noise Engineering Corporation. Blow down quieter. 3,702,644, 11-14-72, Cl. 181-50.000.
- Fowler, Raymond L.; Parken, Edward W.; Robbins, Larry H.; and Woods, Joe W., to International Business Machines Corporation. Magnetic card transport. 3,666,262, 5-30-72, Cl. 271-52.000.
- Fowler, Raymond L., to International Business Machines Corporation. Illumination system. 3,669,538, 6-13-72, Cl. 355-67.000.
- Fowler, Reginald Henry, to Xerox Corporation. Reciprocating system for recording assembly. 3,643,263, 2-15-72, Cl. 346-139.
- Fowler Rex Pty. Limited: *See*—
Hood, Maxwell G., 3,667,735.
- Fowler, Richard A.: *See*—
Lagos, Costas C.; Fowler, Richard A.; and Thomas, Martha J. B., 3,668,140.
- Fowler, Richard Payson, to Johns-Manville Corporation. Separation of nickel from asbestos ore. 3,645,454, 2-29-72, Cl. 241-4.
- Fowler, Richard Payson, to Johns-Manville Corporation. Electrolytic process and apparatus for recovering nickel from asbestos ore. 3,677,919, 7-18-72, Cl. 204-113.000.
- Fowler, Richard T., to Girling Limited. Vehicle wheel brakes and locking means therefor. 3,682,280, 8-8-72, Cl. 188-265.000.
- Fowler, Robert R. Magnetic disk memory spindle assembly. 3,670,315, 6-13-72, Cl. 340-174.10c.
- Fowler, Stanley B., to General Motors Corporation. Vehicle seat latch. 3,674,309, 7-4-72, Cl. 297-379.000.
- Fowler, T. Kenneth: *See*—
Post, Richard F., 3,683,216.
- Fowler, William Frank, Jr.: *See*—
Dann, John Robert; Fowler, William Frank, Jr.; and Gross, Susan Cook, 3,660,521.
- Dann, John Robert; and Fowler, William Frank, Jr., 3,666,476.
- Fowler, William Frank, Jr.; and Klose, Gerhard, to Eastman Kodak Company. Radiation sensitive film element. 3,681,127, 8-1-72, Cl. 117-138.80f.
- Fowler, William Rey: *See*—
Drozdzowicz, Kenneth Paul; Fowler, William Rey; and Averkiou, George, 3,665,266.
- Fowlkes, George V.; Collins, Glenn E.; and McCormack, Darrell W., to Fo-Mac Enterprises, Inc. Steering device for boats. 3,641,962, 2-15-72, Cl. 114-144.
- Fox, Austin Leslie: *See*—
Roffey, William Arthur; and Fox, Austin Leslie, 3,663,146.
- Fox, Charles; and Tassoff, James, to Warner-Lambert Company. Solid bath oil composition containing a clathrate. 3,689,678, 9-5-72, Cl. 424-365.000.
- Fox, Charles H.: *See*—
Ryburn, Kenneth D.; McClone, Robert J.; and Fox, Charles H., 3,702,715.
- Fox, Charles J.: *See*—
Brantly, Thomas B.; Contois, Lawrence E.; and Fox, Charles J., 3,658,520.
- Looker, Jerome J.; and Fox, Charles J., 3,677,752.
- Fox, Charles J.; and Johnson, Arthur L., to Eastman Kodak Company. Electrophotographic sensitizers. 3,705,913, 12-12-72, Cl. 260-391.000.
- Fox, Charles J.; and Light, William A., to Eastman Kodak Company. Photoconductive composition. 3,706,554, 12-19-72, Cl. 96-1.600.
- Fox, Daniel W.; and Wambach, Allen, to General Electric Company. Plastic cast. 3,683,903, 8-15-72, Cl. 128-90.000.
- Fox, David A., to Westinghouse Electric Corporation. Tripping circuit for static switches. 3,697,813, 10-10-72, Cl. 317-36.0td.
- Fox, David Brian; and Gintz, Francis Paul, to BP Chemicals (U.K.) Limited. Film forming copolymers of ethylene, vinyl chloride and a vinyl ester and their production. 3,632,542, 1-4-72, Cl. 260-29.6.
- Fox, David J.; King, Jane E.; and Nardelli, Orazio J., to Honeywell Information Systems, Inc. Process for data communication between data processing. 3,670,306, 6-13-72, Cl. 340-172.500.
- Fox, Dean H., to Hathaway Instruments, Inc. Push button switch. 3,652,963, 3-28-72, Cl. 335-205.
- Fox, Duane C., to North American Rockwell Corporation. Signal compression and expansion system using a memory. 3,662,347, 5-9-72, Cl. 340-172.500.
- Fox, Fred K. Rotary drilling tool. 3,656,565, 4-18-72, Cl. 175-323.
- Fox, Gerald B.; Dudley, Wray E.; and Athey, Stuart E., to Hobart Manufacturing Company, The. Module treating apparatus. 3,706,317, 12-19-72, Cl. 134-57.0dl.
- Fox Grinders, Inc.: *See*—
Bair, James G., 3,648,415.
- Fox, Harry Alvin, Jr.: *See*—
Fritz, William Baird; Sanders, Neil Harrison; Reyner, Emerson Marshall, III; and Fox, Harry Alvin, Jr., 3,683,494.
- Fox, Homer M.: *See*—
Bjornson, Geir; and Fox, Homer M., 3,652,691.
- Bjornson, Geir; and Fox, Homer M., 3,674,668.
- Mac Mullin, Robert B.; Fox, Homer M.; Ruehlen, Forrest N.; and Childs, William V., 3,692,660.
- Ruehlen, Forrest N.; and Fox, Homer M., 3,655,535.
- Fox, Homer M.; Ruehlen, Forrest N.; and Williams, Keith A., to Phillips Petroleum Company. Sparger for introducing feed adjacent to bottom of porous electrode. 3,657,101, 4-18-72, Cl. 204-284.
- Fox, Homer M.; Ruehlen, Forrest N.; and Williams, Keith A., to Phillips Petroleum Company. Process for electrochemical conversion. 3,660,255, 5-2-72, Cl. 204-59.
- Fox, Homer N.; and Ruehlen, Forrest N., to Phillips Petroleum Company. Electrochemical reductive coupling. 3,689,382, 9-5-72, Cl. 204-73.00a.
- Fox, Jack N.; Hansen, Ned P.; Olich, Eugene E.; Guenther, Ralph W.; and Rubinstein, Herbert J., to General Electric Company. Steam cooled nuclear reactor. 3,660,231, 5-2-72, Cl. 176-56.
- Fox, James F., to Continental Can Company, Inc. Method of and apparatus for closing container. 3,688,464, 9-5-72, Cl. 53-24.000.
- Fox, James H.; Dworkin, Darryl R.; and LeUng, Han Chung, to Mattel, Inc. Easy loading toy phonograph. 3,666,274, 5-30-72, Cl. 274-9.00b.
- Fox, James S. W.: *See*—
Morris, Aubrey J.; and Fox, James S. W., 3,633,598.
- Fox, Jay B., Jr., to United States of America, Agriculture. Apparatus for continuous liquid-solid phase chromatography. 3,666,105, 5-30-72, Cl. 210-198.000.
- Fox, John H., Jr.: *See*—
Wilson, Calvin L.; and Fox, John H., Jr., 3,707,028.
- Fox, John J., to Westinghouse Electric Corporation. Lint trap for a clothes dryer. 3,648,381, 3-14-72, Cl. 34-82.
- Fox, Joseph R.: *See*—
Schaefer, Robert H.; and Fox, Joseph R., 3,691,872.
- Fox, Leonard N., to Crane Co.; d/b/a Hydro-Aire Division. Slipper vane and valve combination for vane type fluid pump. 3,647,328, 3-7-72, Cl. 418-136.
- Fox, Marvin L.; and Parry, James R. Insertable valve assembly. 3,640,304, 2-8-72, Cl. 137-315.
- Fox, Maurice Rayner; Stewart, Neil David; and Lockett, Alfred Peter, to Imperial Chemical Industries Limited. Method of applying processing liquors to textile materials and apparatus therefor. 3,644,137, 2-22-72, Cl. 117-61.
- Fox, Norman P., to Fasco Industries, Inc. Device for releasably latching filters and lamp lenses in range hoods. 3,660,969, 5-9-72, Cl. 55-385.000.
- Fox, Philip J.; and Wright, John W., to Motorola, Inc. Electrical and mechanical connections and support for evaporating boats. 3,637,980, 1-25-72, Cl. 219-271.
- Fox, Raymond J.: *See*—

- Palmer, Reed A.; and Fox, Raymond J., 3,649,154.
- Fox, Raymond J., to Robertshaw Controls Company. Fuel control system and control device therefor or the like. 3,693,874, 9-26-72, Cl. 236-15.00a.
- Fox, Richard, to Imperial Chemical Industries of Australia and New Zealand Limited. Blasting agent package. 3,696,703, 10-10-72, Cl. 86-20.00c.
- Fox River Paper Corporation: *See*—
Belisle, Alfred E.; and Nelson, John C., 3,652,353.
- Fox, Robert D.: *See*—
Wainer, Eugene; Petro, Victor P.; Fox, Robert D.; Shirey, John E.; and Smerillo, John A., 3,660,096.
- Fox, Robert M.: *See*—
Foster, Laverne H.; Fox, Robert M.; and Webber, Charles H., 3,635,519.
- Fox, Robert M., to General Motors Corporation. Variable displacement mechanism. 3,656,408, 4-18-72, Cl. 91-500.
- Fox, Shirl S.: *See*—
Fuller, Frank I.; Fox, Shirl S.; and Keller, Ronald F., 3,636,633.
- Fox, Stuart Frederick: *See*—
Rosenfeld, Nathan; and Fox, Stuart Frederick, 3,636,726.
- Fox, Thomas U.: *See*—
Rose, Roger A.; and Fox, Thomas U., 3,684,439.
- Fox, Wayne F., to Triple F, Inc., mesne. Method of treating soybeans. 3,695,891, 10-3-72, Cl. 99-98.000.
- Fox, William B.: *See*—
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- Young, David E.; Anderson, Lowell R.; and Fox, William B., 3,689,563.
- Fox, William Burke: *See*—
Young, David E.; Anderson, Lowell Ray; and Fox, William Burke, 3,681,423.
- Fox, William L., to Eaton Yale & Towne, Inc. Ice tray with integral twist restoring element. 3,648,964, 3-14-72, Cl. 249-69.
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- Bowditch, Hoel L., 3,631,881.
- Catheron, Allan R., 3,680,376.
- Curran, John R., 3,648,718.
- Jordan, William E.; and Earle, William E., 3,660,769.
- Karas, Edwin L.; Lee, David S.; and Vanslette, Robert A., 3,681,998.
- Kinner, Hans-Dieter, 3,656,510.
- McNabb, George C., 3,698,245.
- Shinsky, Francis G., 3,667,053.
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- Foy, George P. Attachment of belt buckles to belts. 3,685,057, 8-22-72, Cl. 2-325.000.
- Foy, John L., Jr.: *See*—
Brender, Ronald F.; and Foy, John L., Jr., 3,638,195.
- Fozzard, George B.: *See*—
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- Fozzard, George B. Process for separating halogenated hydrocarbons by extractive distillation. 3,692,635, 9-19-72, Cl. 203-62.000.
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Domke, Klaus, 3,669,810.
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- Fr. Winkler KG Spezialfabrik fur Baekereischinen und Backoefen: *See*—
Remensperger, Franz, 3,638,778.
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- Frackowiak, Angelika Marie. Woman's hat with depending hair tresses. 3,636,962, 1-25-72, Cl. 132-60.
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- Fradin, Jean; and Lengagne, Paul. Method of automatically packaging radio active sources and apparatus therefor. 3,664,083, 5-23-72, Cl. 53-53.
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- Fraenzke, Ernst, to Schaefer, H., KG. Distributing device for articles, particularly luggage. 3,702,130, 11-7-72, Cl. 198-181.000.
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- Fragitto, Frank A. Variable speed transmission. 3,648,543, 3-14-72, Cl. 74-681.
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- Frahm, Carl E.; and Frahm, Shirley E. Combination sealing, venting, and filtering means. 3,667,197, 6-6-72, Cl. 55-502.000.
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- Frailing, Le Roy H.: *See*—
Cannon, Robert E.; and Frailing, Le Roy H., 3,680,430.
- Fraim, Raymond A.: *See*—
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- Frain, John J.; and Brunner, Frank T. Fluid applicator assembly. 3,663,113, 5-16-72, Cl. 401-206.
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- Fraini, Edward A.; and Wing, Milton S., to Dow Chemical Company, The. Production of aromatics from olefinic hydrocarbons. 3,681,234, 8-1-72, Cl. 208-141.000.
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- Fraioi, Joseph, Sr. Lateral-bend endless chain belt conveyor assembly. 3,693,780, 9-26-72, Cl. 198-182.000.
- Fraleigh, Alton L. Flexible barrier. 3,654,730, 4-11-72, Cl. 49-34.
- Fraley, Phillip Edward: *See*—
Appar, Waldo Ditmar; D'Asaro, Lucian Arthur; Dixon, Richard Wayne; Dufft, William Henry; Elder, Harry Eugene; and Fraley, Phillip Edward, 3,694,902.
- Fram Corporation: *See*—
Brownell, Peter, 3,640,396.
- Pratinidhi, Shrinivas V., 3,639,078.
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- Strick, Karl H., 3,679,321.
- Frame S.A.: *See*—
Belaieff, James Frank, 3,677,473.
- Frame, Wayne W.; Gustavson, Roy A.; and Wiltse, James, to Aetna Life & Casualty. RC clutch stall circuit for a driver-trainer simulator. 3,704,526, 12-5-72, Cl. 35-11.000.
- Frampton, Orville D.; Pedigo, Joel B.; and Lecher, Hans Z., to National Distillers and Chemical Corporation. Process for the catalytic reductive amination of nitriles. 3,673,251, 6-27-72, Cl. 260-563.00d.
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Arcamone, Federico; Franceschi, Giovanni; Glasser, Alfredo; and Dorigotti, Luciano, 3,646,046.
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Fermi, Enzo; and Francesco, San Donato Milanese, 3,669,591.
- Francher, Llewellyn W. Method of controlling weeds with phenox-ethyl carbamates. 3,652,258, 3-28-72, Cl. 71-106.
- Franchi, Luigi, S.p.A.: *See*—
Locatelli, Loris, 3,683,538.
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Blumenberg, Horst H.; and Francillon, Francis W., 3,696,491.
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Francis, James G.; and Pasley, Robert H., Sr., to Royalty Designs of Florida. Fabric-carried plastic article. 3,705,836, 12-12-72, Cl. 161-94.000.
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Francis, John E.: See—
Doehel, Karl J.; and Francis, John E., 3,691,165.
Francis, John E., to Ciba-Geigy Corporation. Derivatives of 9-pyridylalkyl-1,2,8,9-tetraazaphenolene for lowering blood pressure. 3,646,205, 2-29-72, Cl. 424-250.
Francis, John P. Retractable window case structure and support therefor. 3,698,143, 10-17-72, Cl. 52-29.000.
Francis, Joseph S. Meat pickling machines and the like. 3,677,169, 7-18-72, Cl. 99-256.000.
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Francis, Reid Eugene, to Ford Motor Company. Seat belt retraction disabling device. 3,700,184, 10-24-72, Cl. 242-107.400.
Francis, Richard H., to Eastman Kodak Company. System for selectively coating webs. 3,680,529, 8-1-72, Cl. 118-8.000.
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Francis, Ronald, to Itek Corporation. Data storage systems. 3,684,507, 8-15-72, Cl. 96-27.000.
Francis, Roy B.; and Holmes, Billy D., to Delta P. Incorporated. Filter with latch assembly. 3,636,683, 1-25-72, Cl. 55-493.
Francis, Theodore R. Noise reduction canopy device for machinery. 3,700,068, 10-24-72, Cl. 181-33.00k.
Francis, Thomas V.; and Borchers, Edward L., to Superior Aluminum Products, Inc. Simplified relatively heavy duty railing construction. 3,707,276, 12-26-72, Cl. 256-22.000.
Francis, Wallace R., to General Electric Company. Lampholder. 3,651,445, 3-21-72, Cl. 339-53.
Francis, William J., to Packaging Specialties, Inc. Pallet. 3,685,463, 8-22-72, Cl. 108-56.000.
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Ruhl, Karl; Frank, Heinz-Gerhard; and Turowski, Johannes, 3,641,166.
Frank, Heinz-Gerhard; Oberkobusch, Rudolf; Turowski, Johannes; Collin, Gerd; Zander, Maximilian; Erunlu, Recep Kemalettin; Storch, Gunter; Buffleb, Herbert; and Sauerland, Hans-Dieter, to Rutgerswerke Aktiengesellschaft. Process for the production of naphthalene from homologs of indene, by pyrolytic ring extension. 3,636,178, 1-18-72, Cl. 260-668.
Frank, Kurt, to Halophane Company, Inc. Bi-directional highway luminaire. 3,679,889, 7-25-72, Cl. 240-25.000.
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Avrillon, Rene; Frankowiak, Sigismund; Gatellier, Claude; and Glikmans, Georges, 3,698,998.
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Flogel, Ernst, 3,669,270.
Franco, Albert J.: See—
Carlson, Carl O.; Bernstein, Herbert L.; and Franco, Albert J., 3,656,175.
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Sersale, Riccardo; Franco, Enrico; Jello, Rosario; and Colella, Carmine, 3,694,152.
Franco, Gianfranco; Mancini, Carlo; and Pulacci, Angiolo, to Comitato Nazionale per l'Energia Nucleare. Method and apparatus for continuously determining the quantities of the qualitatively known radioactive nuclides contained in a physical system. 3,638,00, 1-25-72, Cl. 235-151.35.
Franco, Louis B. Fishing fly case. 3,680,750, 8-1-72, Cl. 224-5.00g.
Franco Manufacturing Co., Inc.: See—
Wolf, Barnet, 3,689,947.
Franco, Pasini, to Industrie Pirelli S.p.A., mesne. Cable insulated with paper. 3,662,092, 5-9-72, Cl. 174-120.
Franco, Simone; Leoni, Alvaro; and Marini, Manlio, to Minnesota Mining and Manufacturing Company. Process for preparing N-(2-carboxamidoethyl) acrylamide. 3,694,506, 9-26-72, Cl. 260-361.00n.
Francois, Edgar: See—
Elliott, Daniel R.; Francois, Edgar; and MacDonald, Donald C., 3,637,446.
Francois, Edgar, to Uniroyal, Inc. Belt splices. 3,638,281, 2-1-72, Cl. 24-31.
Francois, Edgar, to Uniroyal, Inc. Filament-wound resin torsion tubes with molded end splines. 3,638,455, 2-1-72, Cl. 64-23.
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Frandsen, Lee R.: See—
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Frank, Jozef Tadeusz; and Rhodes, Peter, to Metal Box Company Limited, The. Can ends. 3,638,825, 2-1-72, Cl. 220-66.
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Frangatos, Gerassimos. Process for producing aldehydes and ketones. 3,692,840, 9-19-72, Cl. 260-586.00b.
Frangilli, Vittorio: See—
Basso, Eugenio; Ravaschio, Guglielmo; and Frangilli, Vittorio, 3,701,000.
Frangos, John W. Portable sifting apparatus. 3,640,386, 2-8-72, Cl. 209-337.
Frania, Josef: See—
Scheele, Fritz; Frania, Josef; and Ortmann, Walter, 3,656,814.
Frania, Josef; and Lehnert, Erhard, to Westinghouse Bremsen- und Apparatebau GmbH. Automatic single-acting slack adjuster for brake rod linkage. 3,690,421, 9-12-72, Cl. 188-203.000.
Frahel, Carol Ann. Laminates. 3,692,235, 9-19-72, Cl. 232-1.000.
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Frank, Benno: See—
Treptow, Heinz; Frank, Benno; and Schippers, Heinz, 3,701,268.
Frank, Bernard, to Dart Industries, Inc., mesne. Clothes steamer device. 3,654,780, 4-11-72, Cl. 68-222.
Frank, Bruce S. Desalination of sea water. 3,670,897, 6-20-72, Cl. 210-321.000.
Frank, Charles A. Vapor treatment hood. 3,690,289, 9-12-72, Cl. 118-48.000.
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Helmut, Werner; Frank, Dieter; and Drachenberg, Werner, 3,676,245.
Frank, Donald R.: See—
Guyette, Franklin L.; and Frank, Donald R., 3,700,323.
Frank Edge Saw Manufacturing Company: See—
Peck, Merrill V.; Thompson, Edwin P.; Thompson, William F.; and Peck, Robert M., 3,685,377.
Frank, Eli C.: See—
Boxer, Leo M.; and Boxer, Robert W., 3,703,974.
Frank, Georg: See—
Becker, Werner; Farwer, Alfwald; Frank, Georg; Reis, Bernhard; Rohf, Josef; and Auer, Rupert, 3,674,978.
Frank, George A.: See—
Emmons, William D.; and Frank, George A., 3,689,532.
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Frank, Hans-Ulrich: See—

- Reinhard, Hans; Welzel, Gerhard; Frank, Hans-Ulrich; and Stephan, Rudolf, 3,657,031.
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Frank, Herman J.; and Moch, Irving, Jr., to Du Pont de Nemours, E. I., and Company. Efficiency of nickel-aluminum catalysts by water washing. 3,691,093, 9-12-72, Cl. 252-420.000.
Frank, Jack D.; and Perretta, Michael L., to Vision Laboratories, Inc. Laboratory beaker transporter and elevator. 3,636,777, 1-25-72, Cl. 73-53.
Frank, John: See—
Sibilia, John P.; Woolf, Cyril; and Frank, John, 3,657,362.
Frank, Karl; and Jaeken, Jan, to Agfa-Gevaert Aktiengesellschaft. Colorphotographic material. 3,660,092, 5-2-72, Cl. 96-54.
Frank, Kjell, to Allmanna Svenska Elektriska Aktiebolaget. Inverter. 3,703,676, 11-21-72, Cl. 321-5.000.
Frank, Kjell; and Johansson, Lennart, to Allmanna Svenska Elektriska Aktiebolaget. Capacitor bank for AC networks. 3,703,680, 11-21-72, Cl. 323-101.000.
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Frank, Klaus: See—
Dorn, Friedrich Wilhelm; Frank, Klaus; Gleisberg, Dietrich; Kandler, Joachim; and Thiel, Hans Dieter, 3,649,370.
Frank, Lee F., to Eastman Kodak Company. Apparatus for fusing xerographic toners. 3,659,348, 5-2-72, Cl. 34-122.000.
Frank, Lee F.; and Alley, George W., II, to Eastman Kodak Company. Light lock for corona device. 3,660,656, 5-2-72, Cl. 250-49.5.
Frank, Lee F., to Eastman Kodak Company. Operator responsive programmed learning apparatus. 3,698,100, 10-17-72, Cl. 35-9.00a.
Frank, Lee Fitzpatrick, to Eastman Kodak Company. Self biasing grid control corona systems. 3,638,016, 1-25-72, Cl. 250-65.
Frank, Lee Fitzpatrick, to Eastman Kodak Company. Electrography. 3,680,954, 8-1-72, Cl. 355-3.000.
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Frank, Louis; and Kling, Harry P., to Hittman Associates, Inc. Helium permeable containers. 3,645,703, 2-29-72, Cl. 29-182.5.
Frank, Morton E.; Gross, Jesse; and Lesh, Sol. Chemical testing apparatus. 3,692,498, 9-19-72, Cl. 23-292.000.
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Frank, Peter M.; and Watts, Frank M., to Beautiline Showcase Systems. Channel member having a removal side wall. 3,668,830, 6-13-72, Cl. 52-400.000.
Frank, Robert G., to PPG Industries, Inc. Moving glass locating devices. 3,701,643, 10-31-72, Cl. 65-62.000.
Frank, Robert G., to PPG Industries, Inc. Method and apparatus for shaping glass sheets with opposed roller sets. 3,701,644, 10-31-72, Cl. 65-106.000.
Frank, Rudi: See—
Kittel, Arthur; Frank, Rudi; and Purr, Horst, 3,643,775.
Frank, Simon: See—
Firth, William Charles, Jr.; and Frank, Simon, 3,699,094.
Frank, Stanley William. Self-contained alarm lock with tamper-proof interlocked casing formed from extrusion. 3,704,460, 11-28-72, Cl. 340-274.000.
Frank, Victor S.: See—
Marans, Nelson S.; and Frank, Victor S., 3,646,154.
Frank, Victor S.; Lard, Edwin W.; and Stahly, Eldon E., to Grace, W. R., & Co. Burn-resistant plastic compositions. 3,641,193, 2-8-72, Cl. 260-830.
Frank, Victor S.; and Gush, Donald P., to Grace, W. R., & Co. Reproduction of images using light sensitive curable liquid polymers. 3,645,730, 2-29-72, Cl. 96-28.
Frank, Victor S.; Stahly, Eldon E.; and Rice, Rip G., to Grace, W. R., & Co. Burn-resistant compositions containing a polythiol and a phosphonitrilic polymer. 3,676,311, 7-11-72, Cl. 204-159.140.
Frank, Willi; and Gengler, Gustav. Annular radiator. 3,698,473, 10-17-72, Cl. 165-51.000.
Frank, William C., to Hyde Park Farm Supply Limited. Poultry crates. 3,695,232, 10-3-72, Cl. 119-17.000.
Frank, William J. Apparatus for crushing and disposing of cans and glass containers. 3,687,062, 8-29-72, Cl. 100-91.000.
Frank, William W.: See—
Root, Warren W.; and Frank, William W., 3,650,262.
Frankie, Gladys Marie: See—
Candy, James Charles; Franke, Gladys Marie; and Mounts, Frank William, 3,670,096.
Franke, John L.: See—
Jacob, Abraham H.; and Franke, John L., 3,701,869.
Franke, Konrad: See—
Thiele, Heinz; Franke, Konrad; and Becker, Dietrich, 3,667,836.
Franke, Kurt; and Steffen, Hermann, to ITT Industries, Inc. Lubricator, particularly for hydrodynamic brake evacuated during idling. 3,684,335, 8-15-72, Cl. 308-187.000.
Franke, Norman W.: See—
Barie, Walter P., Jr.; and Franke, Norman W., 3,637,579.
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Franke, Norman W.; and Singerman, Gary M., to Gulf Research & Development Company. Flame-resistant polyurethane compositions. 3,684,753, 8-15-72, Cl. 260-2.5at.
Franke, Norman W.; Paviak, Stanley C.; and Porter, Warren K., Jr., to Gulf Research & Development Company. Ethoxylated amino alkanes as surfactants. 3,706,676, 12-19-72, Cl. 252-544.000.
Franke, Raymond C.; and Dufer, William B., to Westinghouse Air Brake Company. Acknowledging circuit arrangement. 3,696,356, 10-3-72, Cl. 340-213.100.
Franke, Rudiger: See—
Tax, Hans; and Franke, Rudiger, 3,669,206.
Tax, Hans; and Franke, Rudiger, 3,688,931.
Frankel Company, Incorporated: See—
Esemplare, Pascal E.; and West, Charles P., 3,647,603.
Frankel, Edwin N.: See—
Cais, Michael; and Frankel, Edwin N., 3,632,614.
Frankel, Ernst G., to Seatrain Lines, Inc. Submersible tanker mooring system. 3,664,388, 5-23-72, Cl. 141-284.
Frankel, Leon A. Method and apparatus for anastomosing and incising. 3,683,925, 8-15-72, Cl. 128-334.000.
Frankel, Michael S.: See—
Eggert, Walter S., Jr.; and Frankel, Michael S., 3,647,168.
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- Frederick, Harold M.; and Nicol, Edward A., to Burroughs Corporation. Document transport system. 3,663,010, 5-16-72, Cl. 271-14.
- Frederick, Harold M., to Burroughs Corporation. Automatically disengaging, tape handler. 3,675,876, 7-11-72, Cl. 242-198.000.
- Frederick, Harold M.; and Sims, Dewey M., Jr., to Burroughs Corporation. Web tension control device. 3,704,820, 12-5-72, Cl. 226-34.000.
- Frederick, Martin B.; and Posa, John P., to Supreme Equipment & Systems Corporation. Storage device for rollable objects. 3,638,800, 2-1-72, Cl. 211-40.
- Frederick, Martin B.; and Sobel, David, to Supreme Equipment & Systems Corporation. Filing cabinets. 3,650,590, 3-21-72, Cl. 312-319.
- Frederick, Richard E.: See—
Smith, Thomas F.; and Frederick, Richard E., 3,704,762.
- Frederick, Robert. Gauge for press brakes and the like. 3,666,227, 5-30-72, Cl. 248-228.000.
- Frederick, Robert E., to Link Engineering Company. Stator coil lacing machine. 3,685,470, 8-22-72, Cl. 112-121.200.
- Fredericks, Alan D., to Oceanography International Corporation. Method for sealing ampoules. 3,688,812, 9-5-72, Cl. 141-4.000.
- Fredericks, Carl K., to Corlite Corporation. Cellular structure. 3,669,820, 6-13-72, Cl. 161-68.000.
- Fredericks, Carl K., to Corlite Corporation. Method of fabricating structural members. 3,670,555, 6-20-72, Cl. 72-370.000.
- Fredericks, Carl K., to Corlite Corporation. Method of fabricating cellular structures. 3,678,558, 7-25-72, Cl. 29-160.000.
- Fredericks, Charles G. Channel tail aircraft. 3,652,035, 3-28-72, Cl. 244-12.
- Frederickson, Robert Eugene; Zimmerer, John Louis; and Bailey, Jay Richard, to McCulloch Corporation. Mounting means for isolating vibrational energy in chain saw machines. 3,652,074, 3-28-72, Cl. 267-137.
- Frederickson, Robert Eugene; Zimmerer, John Louis; and Bailey, Jay Richard, to McCulloch Corporation. Vibration isolation and bumper system. 3,698,455, 10-17-72, Cl. 143-32.00r.
- Frederik, Johannes van Roessel: See—
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- Frederiksen, Christopher W.: See—
Hawley, Robert L.; Frederiksen, Christopher W.; and Hoer, Ralph A., 3,642,490.
- Hoer, Ralph A.; Frederiksen, Christopher W.; and Hawley, Robert L., 3,694,221.
- Magnino, Pete J., Jr.; and Frederiksen, Christopher W., 3,645,745.
- Frederiksen, Christopher W.; and Heusdens, Wilhelmus, to Ralston Purina Company. Protein fiber forming. 3,662,671, 5-16-72, Cl. 99-17.
- Frederiksen, Erik, to Laur Knudsen, Nordisk Elektricitets Selskab. Airfield inset runway light. 3,697,736, 10-10-72, Cl. 240-1.200.
- Frederiksen, Erling Knud; and Godtfredsen, Wagn Ole, to Lovens Kemiske Fabrik Produktionsaktieselskab. Esters of β -aminobenzylpenicillin in dosage unit form. 3,660,575, 5-2-72, Cl. 424-271.
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- Frederiksen, Ronald A.: See—
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- Frederiksen, Thomas M.: See—
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- Frederiksen, Thomas M., to Motorola, Inc. Differential trigger circuit. 3,648,069, 3-7-72, Cl. 307-235.
- Frederiksen, Thomas M.; and Russell, Ronald W., to Motorola, Inc. Power supply start circuit and amplifier circuit. 3,648,154, 3-7-72, Cl. 323-22.
- Frederiksen, Thomas M., to Motorola, Inc. Single supply comparison amplifier. 3,649,846, 3-14-72, Cl. 307-235.
- Frederiksen, Thomas M., to Motorola, Inc. Constant current source. 3,659,121, 4-25-72, Cl. 307-297.
- Frederiksen, Thomas M., to Motorola, Inc. Current limiting transistor. 3,670,219, 6-13-72, Cl. 317-235.
- Frederiksen, Thomas M., to Motorola, Inc. Temperature compensated bias circuit. 3,671,770, 6-20-72, Cl. 307-310.000.
- Frederiksen, Thomas M., to Motorola, Inc. Integrated bistable circuit. 3,700,929, 10-24-72, Cl. 307-291.000.
- Frederiksen, Thomas M.; and Long, Ernest L., to Motorola, Inc. Complementary power amplifier. 3,701,031, 10-24-72, Cl. 330-17.000.
- Fredkin, Edward; and Renold, Walter, to Information International, Inc. Rapid film reader/recorder utilizing movable cylindrical lens. 3,693,042, 9-19-72, Cl. 315-18.000.
- Fredman, Harry. Adapter unit for interconnecting bedframes and head and footboards. 3,644,948, 2-29-72, Cl. 5-296.
- Fredrickson, Donald M., to Bell & Howell Company. Sheet separating apparatus. 3,640,524, 2-8-72, Cl. 271-36.
- Fredrickson, Donald M.; and Bungener, Johannes H., to Bell & Howell Company. Toner doctor means. 3,640,617, 2-8-72, Cl. 353-10.
- Fredrickson, James D.; and Hickman, Ella Sue, to Reynolds Leasing Corporation, mesne. Tobacco expansion process. 3,683,937, 8-15-72, Cl. 131-140.000.
- Fredrickson, Walter G.: See—
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- Fredrickson, Walter G.; Jones, George M.; and Thrailkill, Howard A., to Harris-Intertype Corporation. Full word wrap-around in editing/correcting display apparatus. 3,688,275, 8-29-72, Cl. 340-172.500.
- Fredrickson, Walter G.; Heitmann, Albert W.; and Jones, George M., to Harris-Intertype Corporation. Apparatus for editing and correcting displayed text. 3,706,075, 12-12-72, Cl. 340-172.500.
- Fredrikson, Bengt; Larsen, Stein; and Suvanto, Erkki. Means for casting. 3,685,570, 8-22-72, Cl. 164-251.000.
- Fredriksson, Karl Garry Kenneth: See—
Mattsson, Leif Erling M.; and Fredriksson, Karl Garry Kenneth, 3,664,390.
- Free, Marvin H.: See—
Wood, Loren E.; and Free, Marvin H., 3,698,598.
- Free, Maurice G., to Motorola, Inc. Integrated circuit amplifier having an improved gain-versus-frequency characteristics. 3,660,773, 5-2-72, Cl. 330-30.
- Free, Maurice G.; and Wiseman, Leo L., to Motorola, Inc. Neutron radiation and gamma ray hardened adjustable power supply. 3,679,963, 7-25-72, Cl. 323-4.000.
- Free, William N.: See—
Bonneville, Gerald D.; Hetke, Adolf; and Free, William N., 3,702,169.
- Free-Flow Packaging Corporation: See—
Makowski, Alexander G., 3,632,705.
- Freebairn, Hugh T.: See—
McDonnell, Gerald F.; and Freebairn, Hugh T., 3,683,788.
- Freeby, LeRoy W., to Robertshaw Controls Company. Temperature calibration assembly having adjustment member frictionally engaged by a cylindrical member frictionally engaged by a cylindrical member for setting and calibration. 3,683,304, 8-8-72, Cl. 337-37.000.

- Freed, Charles: See—
Javan, Ali; and Freed, Charles, 3,686,585.
- Freed, Jacob B.; and Reiling, Victor G., to Union Pump Company. Lined plug valve. 3,698,422, 10-17-72, Cl. 137-375.000.
- Freed, Meier E.: See—
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- Potoski, John R.; and Freed, Meier E., 3,635,982.
- Potoski, John R.; and Freed, Meier E., 3,647,790.
- Potoski, John R.; and Freed, Meier E., 3,692,791.
- Freed, Meier E.; and Hertz, Elisabeth, to American Home Products Corporation. 4,5-Dihydro-N-(4-phenyl-1-piperazinylcarbonyl)-1H[1,4]diazepino[1,2-a]indole. 3,641,030, 2-8-72, Cl. 260-268.
- Freed, William E. Hose support and guide. 3,650,545, 3-21-72, Cl. 280-421.
- Freedborn, John C., to Honeywell Inc. High speed amplifier for driving an inductive load. 3,638,130, 1-25-72, Cl. 330-30.
- Freedman and Goodman: See—
Grosberg, Sam, 3,674,266.
- Freedman, David; and Tick, Sanford J., to New Brunswick Scientific Co., Inc. Centrifugal mechanical defoamer. 3,649,557, 3-14-72, Cl. 252-361.
- Freedman, David, to New Brunswick Scientific Co., Inc. Rotary valve pump. 3,694,112, 9-26-72, Cl. 417-519.000.
- Freedman, Edward J. Polyhedral amusement and educational device. 3,662,486, 5-16-72, Cl. 46-1.00r.
- Freedman, Frank B.; Friedman, Julius J.; and Williams, Bruce P. Parabolic dialysis apparatus. 3,682,172, 8-8-72, Cl. 128-214.00b.
- Freedman, Frank B. Parabolic dialysis apparatus. 3,699,960, 10-24-72, Cl. 128-214.00b.
- Freedman, Gerald: See—
Freedman, Paul; Freedman, Gerald; Wahls, Robert A.; and Hornstein, Harvey R., 3,652,127.
- Freedman, Paul; Freedman, Gerald; Wahls, Robert A.; and Hornstein, Harvey R., 3,680,915.
- Freedman, Jules; and Judd, Claude L., to Colgate-Palmolive Company. 3-(2-Aminophenyl)indole derivatives. 3,637,747, 1-25-72, Cl. 260-326.13.
- Freedman, Jules, to Colgate-Palmolive Company. 3-Amino-2-(3,4-dihaloxyphenyl)bicyclo[2.2.2]octan-2-ol. 3,651,142, 3-21-72, Cl. 260-570.5.
- Freedman, Jules, to Colgate-Palmolive Company. 4H [1] benzopyrano [3,4-d] isoxazole derivative. 3,692,796, 9-19-72, Cl. 260-307.00h.
- Freedman, Jules, to Colgate-Palmolive Company. 3-Alkanol derivatives of 4H [1] benzopyrano [3,4-d]isoxazoles. 3,707,476, 12-26-72, Cl. 260-307.00h.
- Freedman, Morris D., to Bendix Corporation, The. Shadow edge position detector using linear array of diodes with logic to generate gray code. 3,676,687, 7-11-72, Cl. 250-209.000.
- Freedman, Morris D., to Bendix Corporation, The. Optical image data processing system. 3,676,866, 7-11-72, Cl. 340-173.0lt.
- Freedman, Morris D., to Bendix Corporation, The. Character recognition system. 3,694,806, 9-26-72, Cl. 340-146.30f.
- Freedman, Morris David, to Bendix Corporation, The. Coordinate determining device employing a second order difference signal to determine approximate cursor position. 3,699,253, 10-17-72, Cl. 178-19.000.
- Freedman, Myron L. Method and apparatus for cleaning film. 3,640,293, 2-8-72, Cl. 134-9.
- Freedman, Nathan; and Hart, Harold M., to Raytheon Company. Pulsed oscillator. 3,649,918, 3-14-72, Cl. 325-164.
- Freedman, Paul; Freedman, Gerald; Wahls, Robert A.; and Hornstein, Harvey R., to Freedman Seating Company. Counterbalanced folding seats with position lock. 3,652,127, 3-28-72, Cl. 297-372.
- Freedman, Paul; Freedman, Gerald; Wahls, Robert A.; and Hornstein, Harvey R., to Freedman Seating Company. Automobile seat with adjustable head-rest. 3,680,915, 8-1-72, Cl. 297-410.000.
- Freedman, Samuel Orkin; Gold, Phil; and Krupay, John Henry, to Hoffmann-La Roche Inc. Carcinoembryonic antigen and diagnostic method using radioactive iodine. 3,663,684, 5-16-72, Cl. 242-1.000.
- Freedman Seating Company: See—
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- Freedman, Paul; Freedman, Gerald; Wahls, Robert A.; and Hornstein, Harvey R., 3,680,915.
- Freegard, Ernest M.: See—
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- Freegard, Ernest M., to Advance Transformer Co. Universal bracket for mounting mercury ballasts. 3,664,624, 5-23-72, Cl. 248-221.000.
- Freeh, Edward J.: See—
Grant, Michael P.; and Freeh, Edward J., 3,697,003.
- Freel, John: See—
Pieters, William Johan Meindert; Freel, John; and Anderson, Robert Bernard, 3,657,157.
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- Freeland, Edward J., to Gulf & Western Industrial Products Company. Machine control circuit. 3,700,991, 10-24-72, Cl. 318-447.000.
- Freeland, Iris Mary: See—
Freeland, William, 3,674,151.
- Freeland, Stanley R., to Bell & Howell Company. Pendulous type rangefinder for optical instrument. 3,675,559, 7-11-72, Cl. 95-44.00c.
- Freeland, William; deceased (by Freeland, Iris Mary; executrix), to U.S. Philips Corporation. Backflushing filter. 3,674,151, 7-4-72, Cl. 210-298.000.
- Freelander, Israel Robert. Jack-in-the box including box with integral inner cylindrical wall. 3,667,155, 6-6-72, Cl. 46-146.
- Freeman, Aaron E., to Microbiological Associates, Inc. Assay and culture tray. 3,649,464, 3-14-72, Cl. 195-140.
- Freeman, Albert Leslie, to International Standard Electric Corporation. Method of forming a contact. 3,650,026, 3-21-72, Cl. 29-630.
- Freeman, Alfred. Treatment of footwear. 3,681,850, 8-8-72, Cl. 34-1.000.
- Freeman, Alfred B. Tone modulation system. 3,688,010, 8-29-72, Cl. 84-1.110.
- Freeman, Arthur H.; and Vallone, Giacinto, to General Electric Company. Switch for electric knife with wiping action contact shorting bar. 3,694,604, 9-26-72, Cl. 200-157.000.
- Freeman, Carlos A., Jr. Reaction-impulse-counterrotating-airfoil. 3,677,503, 7-18-72, Cl. 244-23.
- Freeman, Charles Robert: See—
Olyphant, Murray, Jr.; Cartier, Michael David; and Freeman, Charles Robert, 3,665,428.
- Freeman Chemical Corporation: See—
Svoboda, Glenn R.; and Ross, Richard C., 3,634,308.
- Svoboda, Glenn R.; and Reineck, Ronald W., 3,676,376.
- Szwarc, John J.; and Doyle, Thomas E., 3,638,312.
- Freeman, Darrell L., to Nutter Engineering Company; division of Heat/Fluid Engineering Corporation. Clamp assembly. 3,674,246, 7-4-72, Cl. 261-114.00r.
- Freeman, Donald C., Jr.; and Rogers, Louis J., to Ionics Incorporated, mesne. Analysis of organic and inorganic water pollutants. 3,672,841, 6-27-72, Cl. 23-230.0pc.
- Freeman, Donald J.; Fulkerson, Ambrose A.; Grall, Kenneth J.; and Pearson, Samuel J., to United States of America, Army. Black smoke marker. 3,695,949, 10-3-72, Cl. 149-15.000.
- Freeman, Frank George, to Lucas, Joseph, (Industries) Limited. Radial piston pumps or motors. 3,657,971, 4-25-72, Cl. 91-487.
- Freeman, Frank George, to Lucas, Joseph, (Industries) Limited. Hydraulic pump. 3,663,125, 5-16-72, Cl. 417-294.
- Freeman, Gerald C.: See—
Dlugos, Daniel F.; Freeman, Gerald C.; and Piotroski, Peter N., 3,692,988.
- Freeman, Harlan G.: See—
Kreibich, Roland E.; Freeman, Harlan G.; Baxter, Gene F.; and Kumli, Karl F., 3,634,276.
- Freeman, Harlan G.; Baxter, Gene F.; and Howell, John T., to Weyerhaeuser Company. Phenol-formaldehyde adhesive resin containing hydroxyethyl cellulose. 3,663,481, 5-16-72, Cl. 260-14.
- Freeman, Harlan G.; and Gillern, Maurice F., to Weyerhaeuser Company. Foams and process of making. 3,704,269, 11-28-72, Cl. 260-2.50f.
- Freeman, Harlan G., to Weyerhaeuser Company. Method of bonding wood and other materials with rapid-curing adhesives using a primer composition. 3,706,619, 12-19-72, Cl. 156-315.000.
- Freeman, Horace L.: See—
Woodall, Hubert C., Jr.; Freeman, Horace L.; and Goodman, Noah C., 3,669,157.
- Freeman, Hovey T., Jr.: See—
MacLean, Charles C., III; and Villa, Alfonso, 3,640,040.
- Freeman, Howard I.: See—
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- Freeman, James Harry, to United Kingdom Atomic Energy Authority. Apparatus for bombarding a target with ions. 3,689,766, 9-5-72, Cl. 250-49.50t.
- Freeman, James Harry, to United Kingdom Atomic Energy Authority. Ion beam sources with tiltable firing angle. 3,705,320, 12-52, Cl. 313-63.000.
- Freeman, John D.; and Earls, David E., to General Time Corporation. Automatic cycling discharging device. 3,658,209, 4-25-72, Cl. 222-70.
- Freeman, Kenneth G. Ratchet control mechanism. 3,665,775, 5-30-72, Cl. 74-473.00r.
- Freeman, Leslie Bernard, to Lucas, Joseph, (Industries) Limited. Hydraulic power transmission systems. 3,650,109, 3-21-72, Cl. 60-97.
- Freeman, Maurice, to Imperial Chemical Industries Limited. Coating compositions. 3,694,394, 9-26-72, Cl. 145-29.00w.
- Freeman, Michael H., to Pilkington Perkin-Elmer Limited. Head-up displays. 3,666,887, 5-30-72, Cl. 178-7.85.
- Freeman, Norman H.: See—
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- Freeman, Peter A. Vacuum controlled fluidic regulator. 3,670,754, 6-20-72, Cl. 137-81.500.

- Freeman, Peter A., to Bowles Fluidics Corporation. Fluidic irrigation. 3,675,672, 7-11-72, Cl. 137-81.500.
- Freeman, Peter Frank Hilary: *See*—
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- Freeman, Peter Frank Hilary; Shephard, Margaret Claire; and Snell, Brian Kenneth, to Imperial Chemical Industries, Limited. Fungicidal and insecticidal methods and compositions employing pyrimidine derivatives. 3,670,077, 6-13-72, Cl. 424-200.000.
- Freeman, Peter Frank Hilary, to Imperial Chemical Industries Limited. Pesticidally active compounds and compositions containing them. 3,674,877, 7-4-72, Cl. 424-263.000.
- Freeman, Richard B.; Kawalec, Michael T.; Maholick, Andrew W.; and Stager, Stanley R., III, to International Business Machines Corporation. Universal cyclic division circuit. 3,678,469, 7-18-72, Cl. 340-172.500.
- Freeman, Robert J. Underground refuse collection system. 3,661,239, 5-9-72, Cl. 198-20.
- Freeman, William R., Jr.: *See*—
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- Freemen, Norman L.: *See*—
Mason, John F.; Frazier, Bruce J.; and Freeman, Norman L., 3,680,188.
- Freeport Minerals Company: *See*—
Wiewiorowski, Tadeusz K.; and Vincent, John Ross, 3,633,339.
- Freeport Sulphur Company: *See*—
Jolly, Jatinder, 3,698,862.
- Morris, Horton H.; Olivier, James P.; and Ross, Sydney, 3,659,708.
- Morris, Horton H.; and Olivier, James P., 3,660,134.
- Morris, Horton H.; Olivier, James P.; and Prescott, Paul I., 3,697,474.
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- Smith, Jay Charles; and Reinhardt, James R., 3,640,682.
- Freer, Edgar P., to Hubach-Freer Corporation, mesne. Precision digital linear adjustment mechanism and height gage embodying same. 3,676,934, 7-18-72, Cl. 33-169.00r.
- Freericks, Lambert: *See*—
Buonsante, John J.; Freericks, Lambert; Haarmann, Howard J.; and Sieglinger, John C., 3,697,702.
- Freerks, Conrad T.; Huppert, James C.; and James, Ralph E., to Minnesota Mining and Manufacturing Company. Wide flap wheel. 3,645,049, 2-29-72, Cl. 51-334.
- Freerks, Conrad T.; and Luecke, Fred R., Jr., to Minnesota Mining and Manufacturing Company. Surface grinding device. 3,668,814, 6-13-72, Cl. 51-144.000.
- Freeze Dry Products Inc.: *See*—
Wise, Raymond G., 3,653,383.
- Freeze, James T.; and Fikes, Alan L., to Pfizer Inc. Stabilized halogen containing resins. 3,655,616, 4-11-72, Cl. 260-45.75.
- Freeze, John A., to Westinghouse Electric Corporation. Method of testing an electrical winding including the step of connecting the winding to provide a tank circuit. 3,667,034, 5-30-72, Cl. 324-55.
- Fregeolle, Oscar, to Pilot Research Corporation. Apparatus and method for slitting fabric on a circular knitting machine. 3,670,528, 6-20-72, Cl. 66-147.000.
- Fregeolle, Oscar, to Pilot Research Corporation. Seamless panty hose and method. 3,670,529, 6-20-72, Cl. 66-177.000.
- Freggens, Robert A., to RCA Corporation. Internal configuration for a radial heat pipe. 3,658,125, 4-25-72, Cl. 165-80.
- Freggens, Robert Alfred, to RCA Corporation. Method of making a heat pipe having an easily contaminated internal wetting surface. 3,672,020, 6-27-72, Cl. 29-157.30r.
- Frehe, Dieter, to Gutbrod, Walter and Gutbrod, Wolfgang. Motor-driven sweeping machine. 3,665,541, 5-30-72, Cl. 15-83.
- Frei, Alfred; and Schweizer, August, to Sandoz Ltd.; a/k/a Sandoz A.G. Dye preparations containing a metallized disazo dye and monopropanolamine. 3,700,653, 10-24-72, Cl. 260-148.000.
- Frei, Armin H., to International Business Machines Corporation. Analog to digital converter. 3,701,148, 10-24-72, Cl. 340-347.0ad.
- Frei, Arno, to Sulzer Brothers, Limited. Hydrostatic shaft seal. 3,685,839, 8-22-72, Cl. 277-27.000.
- Frei, Karl. Thread storing device for temporarily storing a thread. 3,637,149, 1-25-72, Cl. 242-47.09.
- Frei, Karl; and Hood, Edwin Elliott, to Bendix Corporation, The. Bicycle disc brake. 3,675,740, 7-11-72, Cl. 188-26.000.
- Frei, Karl; and Hood, Edwin Elliott, to Bendix Corporation, The. Bicycle disc brake. 3,675,741, 7-11-72, Cl. 188-26.000.
- Frei, Karl. Thread sensing arrangement. 3,689,963, 9-12-72, Cl. 28-1.00r.
- Freiberg, Ashley H.: *See*—
Baker, Don R.; Menn, Julius J.; and Freiberg, Ashley H., 3,658,812.
- Gutman, Arnold D.; and Freiberg, Ashley H., 3,692,900.
- Szabo, Karoly; and Freiberg, Ashley H., 3,639,629.
- Freiberg, Leslie Alan, to Abbott Laboratories. De(N-methyl)-N-substituted derivatives of erythromycin. 3,681,325, 8-1-72, Cl. 260-210.00e.
- Freiberg, Robert J.: *See*—
Buczek, Carl J.; Skolnick, Michael L.; and Freiberg, Robert J., 3,646,468.
- Freiberger, Ronald D.; and Woolley, James L., to General Motors Corporation. Heater blower motor delay energizing means. 3,668,497, 6-6-72, Cl. 318-471.000.
- Freibergs, Elmer, to United States of America, Army. Reciprocal latching ferrite phase shifter. 3,681,715, 8-1-72, Cl. 333-31.00a.
- Freiburger, Thomas William, to Deere & Company. Single-lever actuated linkage for controlling the transmission and steering of a crawler tractor. 3,633,436, 1-11-72, Cl. 74-471.
- Freiburghaus, Bernard, to Fimecor Fine Mecanique S.A. Machine for rotatably driving the bottom of a watch-casing or the bottom of a measuring apparatus. 3,633,444, 1-11-72, Cl. 81-6.
- Freidheim, Frank C.: *See*—
McMullen, Wayne W., 3,645,558.
- Freidlin, Gilia Naumovich: *See*—
Kostenko, Alla Elisbarovna; Karpukhina, Valentina Vasilievna; Stovpyaga, Valentina Petrovna; Freidlin, Gilia Naumovich; Adamov, Ary Artemovich; and Berezhnaya, Lidia Fedotovna, 3,660,528.
- Freieich, Ernest: *See*—
Jackson, Steven B.; Freieich, Ernest; and Hammond, James D., 3,675,435.
- Freihof, Alexis, to Ruti Machinery Works, Ltd. Suction apparatus on a textile machine. 3,665,976, 5-30-72, Cl. 139-126.
- Freij, Ingvar: *See*—
Schullstrom, Sten Gunde; Freij, Ingvar; Schader, Arne; and Olofsson, Nils Gunnar, 3,701,075.
- Freiling, John Robert. Applicator device for toothpaste dispensers or the like. 3,653,778, 4-4-72, Cl. 401-183.
- Freiman, Charles V.: *See*—
Amdahl, Gene M.; Arnold, Richard F.; Dauber, Philip S.; Freiman, Charles V.; Robelen, Russell J.; Schorr, Herbert; and Wierzbicki, John R., 3,670,309.
- Arnold, Richard F.; Dauber, Philip S.; Freiman, Charles V.; Robelen, Russell J.; and Wierzbicki, John R., 3,670,307.
- Freimuth, Friedrich. Arrangement for retaining a closing or support member in a cylindrical housing. 3,648,348, 3-14-72, Cl. 29-200.
- Freimuth, John H.: *See*—
Hurlburt, Joseph C.; and Freimuth, John H., 3,706,186.
- Freimuth, John H.; and Hurlburt, Joseph C., to Sperry Rand Corporation. Stroking jack shaft for a belt drive. 3,696,594, 10-10-72, Cl. 56-15.200.
- Freireich, Emil J.: *See*—
Judson, George T.; and Freireich, Emil J., 3,655,123.
- Freis, John H. Culture collecting apparatus. 3,674,007, 7-4-72, Cl. 128-2.000.
- Freisberg, Karl-Otto: *See*—
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- Freisinger, Raymond, to National Alarm Products Co., Inc. Automatic telephone dialer for emergency messages. 3,632,879, 1-4-72, Cl. 179-5.
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Bakeman, Orville R.; and French, Allen D., 3,675,153.
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LIST OF PATENTEEES

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Culvenor, Claude Charles Joseph; Edgar, John Alexander; Smith, Leslie Walter; Tweeddale, Helen Joan; Jago, Marjorie; and French, Eric Ancelot, 3,705,905.
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St. Vrain, Wallace E.; and French, Gerald H., 3,653,053.
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Crossdale, William Herbert; French, Harlan Sumner; Hofschild, Clewell Stephen; and Johnson, Donald Owen, 3,648,741.
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McLeod, Gerald L.; French, Hollis E.; Case, Laura K.; Berman, Elliot; and Casella, Joseph, 3,700,440.
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Hill, Robert C.; French, John M.; and Toepfer, Richard E., 3,675,019.
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- French Oil Mill Machinery Company, The: *See*—
Bredeson, Dean K.; and Slaby, Robert Kent, 3,638,921.
- Bredeson, Dean K., 3,682,091.
- French, Alfred W.; and Starrett, Forest J., Jr., 3,661,082.
- Mason, Gene C., 3,632,615.
- Nissle, William N.; Slaby, Robert K.; and Bredeson, Dean K., 3,684,252.
- Slaby, Robert Kent, 3,672,641.
- French, R. T. Company, The: *See*—
Tollefson, Charles I.; and Bice, Claude W., 3,647,486.
- French, Robert L. Paint brush trim guide. 3,698,033, 10-17-72, Cl. 15-246.000.
- French, Roy E. Fishing simulator. 3,646,691, 3-7-72, Cl. 35-29.
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Piazza, Henry; and Bach, Pierre, 3,690,259.
- French, Thomas, & Sons Limited: *See*—
Foggo, James Douglas, 3,649,412.
- Heldt, Roger, 3,665,977.
- Shaw, Walter, 3,663,979.
- Wood, William, 3,670,780.
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- French, William E.: *See*—
Day, Richard A.; French, William E.; and Riley, Michael A., 3,662,244.
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Kaplansky, Arkady Fridmanovich; Korenblit, Izya Yakovlevich; Frenkel, Andrei Filipovich; and Zakhariev, Alexandr Ivanovich, 3,682,570.
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Sullivan, Thomas E.; and Frenkel, Lothar, 3,633,110.
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Herzhoft, Peter; Gref, Hans; Wolfgang, Leverkusen; Frenken, Hans; Assenmacher, Peter; and Westen, Dietmar, 3,677,076.
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Kling, Edward E.; Cousino, James L.; and Frens, James A., 3,663,412.
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Doring, Wolfgang; Frenzel, Bertram; Hentschel, Hans-Dieter; Kemter, Heinz; Mickenautsch, Werner; and Schmidt, Harry, 3,665,732.
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Bickel, John E.; Freres, Clemens H.; Gossard, Earl E.; Britt, James E.; Ortwein, Norman R.; and Swanson, Eric R., 3,680,115.
- Freres, Kuhn, & Cie, Societe en commandite simple: *See*—
Aron, Jerome, 3,650,101.
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Escobedo, Francisco, 3,690,220.
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Borchert, Edgar; Frese, Werner; Pikorz, Wolfgang; and Sonntag, Alois, 3,634,739.
- Fresia, Elmo James; and Desmond, Jeremiah E., to Sprague Electric Company. Method of producing electrical capacitors. 3,653,119, 4-4-72, Cl. 29-585.
- Freter, Kurt: *See*—
Schroeder, Hans-Detlef; Merz, Herbert; Langbein, Adolf; Freter, Kurt; Zeile, Karl; Danneberg, Peter; Gieseemann, Rolf; and Wick, Helmut, 3,689,492.
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- Freud, Paul J.: *See*—
Hed, Aharon Zeev; and Freud, Paul J., 3,686,096.
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- Freudenberg, Carl: *See*—
Bischoff, Dieter, 3,669,819.
- Brehm, Hans, 3,650,243.
- Hartmann, Ludwig, 3,637,409.
- Krug, Hans-Dietrich, 3,655,840.
- Prinz, Josef, 3,687,709.
- Schmitt, Wilhelm, 3,681,142.
- Freudenberg, Carl, Kommanditgesellschaft: *See*—
Demme, Ernst; Schachowsky, Theodor; Schuhmacher, Guenther; Fehlhaber, Juergen; and Hartmann, Ludwig, 3,647,594.
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Jonas, John J.; and Freund, Ernest H., 3,673,106.

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Strojny, Edwin J.; and Frevel, Ludo K., 3,668,244.
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Petrzika, Theodor; Hofmann, Albert; Schenk, Hansruedi; Troxler, Franz; Frey, Albert; and Ott, Hans, 3,647,801.
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Ulrich, Paul; and Frey, Christoph, 3,655,638.
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Weyna, Philip L.; Thuma, Volney P.; and Frey, David A., 3,666,521.
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- Frey, Felix: See—
Flensburg, Hermann; and Frey, Felix, 3,706,524.
- Frey, Frederick W., Jr.; Hutchinson, Donald O.; and Seth, Kishan K., to Ethyl Corporation. Method of making aluminum-silicon alloys. 3,661,561, 5-9-72, Cl. 75-68.
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- Frey, Gerald J., mesne: See—
Peterson, Gary E., 3,632,199.
- Frey, Hans: See—
Muller, Richard; Frey, Hans; and Dathe, Christian, 3,641,082.
- Frey, Hans-Hasso: See—
Tvaermose Nielsen; Frey, Hans-Hasso; and Feit, Peter Werner, 3,634,410.
- Frey, Hans-Hasso; and Lissberg, Sven, to Lovens Kemiske Fabrik Produktionsaktieselskab. 2-(Morpholinobenzyl)-anilides. 3,674,787, 7-4-72, Cl. 260-247.20a.
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- Frey, Robert J.: See—
Vilcins, Ilmar J.; and Frey, Robert J., 3,669,799.
- Frey, Robert J., to Signode Corporation. Control system for apparatus for friction-fusing overlapping portions of a thermoplastic strapping ligature. 3,679,519, 7-25-72, Cl. 156-359.000.
- Frey, Robert R.: See—
Adelstein, Jerome; and Frey, Robert R., 3,687,691.
- Frey, Rolf, to Mahle-Werk GmbH. Safety device for die casting machines. 3,702,153, 11-7-72, Cl. 164-153.000.
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- Frey, Wolfgang; and Schoenauer, Wolfgang, to Sandoz Ltd. Anthraquinone compounds. 3,646,071, 2-29-72, Cl. 260-371.
- Frey-Portner, Urs: See—
Koller, Hans; and Frey-Portner, Urs, 3,704,573.
- Freyermuth, Harlan B.: See—
Field, Nathan D.; and Freyermuth, Harlan B., 3,657,197.
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Schreiber, Erich; Freyn, Fritz; and Noraberg, John, 3,703,178.
- Freyschlag, Herwig: See—
Reif, Werner; Nuerrenbach, Axel; and Freyschlag, Herwig, 3,682,989.
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- Freytag, Karl-Heinz: See—
Pelz, Willibald; Kabitzke, Karlheinz; Freytag, Karl-Heinz; Vetter, Hans; Danhauser, Justus; and Bockly, Erich, 3,684,513.
- Frezza, Robert: See—
Cohn, Eugene; Cecere, Andrew P.; and Frezza, Robert, 3,670,375.
- Cohn, Eugene; Cecere, Andrew P.; and Frezza, Robert, 3,688,354.
- Cohn, Eugene; and Frezza, Robert, 3,692,465.
- Frezza, Robert: See—
Frezza, Robert; and Crawford, James J., 3,656,045.
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- Friant, Elias S., Jr.: See—
Smith, William G.; and Friant, Elias S., Jr., 3,656,840.
- Friant, James E.; Pawlak, Daniel E.; and Goode, John W., to Explosives Corporation of America. Field sensitized explosive package. 3,687,076, 8-29-72, Cl. 102-24.000.
- Friberg, Nelson A., to International Assembly Corporation. Centrally located access alarm system. 3,641,552, 2-8-72, Cl. 340-274.
- Friberg, Vincent P.: See—
Chesney, John; Friberg, Vincent P.; and Phelps, Richard B., 3,657,628.
- Friberg, Vincent P., to General Instrument Corporation. Communications receiver employing varactor controlled tuning stages. 3,657,654, 4-18-72, Cl. 325-452.
- Fritronics of Conn., Inc.: See—
Reynolds, Frank L.; Langer, Alfred C.; and Tweedie, Ellsworth, 3,690,704.
- Frick Company: See—
Brown, William E., Jr.; and Dufton, William C., 3,682,209.
- Garland, Milton W., 3,643,460.
- Garland, Milton W.; and Schaeffer, Bruce S., 3,664,149.
- Garland, Milton W., 3,680,324.
- Schaeffer, Bruce S.; and Pike, John A., 3,677,029.
- Smith, Malcolm C., 3,666,083.
- Frick, George W., to Cities Service Oil Company. Gasoline production from wellhead natural gas. 3,660,272, 5-2-72, Cl. 208-93.000.
- Frick, Hans-Dieter: See—
Kohler, Roland; Frick, Hans-Dieter; Fengler, Harald; and Geyken, Erwin, 3,678,843.
- Frick, Hans-Dieter; Geyken, Erwin; Dawidowitsch, Peter; and Schausberger, Helmut, to Agfa-Gevaert Aktiengesellschaft. Apparatus for processing photographic material or the like. 3,688,677, 9-5-72, Cl. 95-94.00r.
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Davis, James E.; and Frick, Harold L., 3,659,578.
- Frick, Hughie R.: See—
Anderson, Richard W.; and Frick, Hughie R., 3,641,020.
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- Anderson, Richard W.; and Frick, Hughie R., 3,682,876.
- Anderson, Richard W.; and Frick, Hughie R., 3,696,154.
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- Fricke, Louis H., Jr.: See—
Goldberg, Jack; and Fricke, Louis H., Jr., 3,651,333.
- Pao, Robert K. C.; and Fricke, Louis H., Jr., 3,663,833.
- Fricke, Louis H., Jr., to Monsanto Company. Proportional only process controller. 3,696,304, 10-3-72, Cl. 330-30.00d.
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- Fricke, William C.: See—
Young, Donald S.; and Fricke, William C., 3,694,768.
- Fricker, David C.: See—
Fink, Leon, Jr.; and Fricker, David C., 3,657,621.
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- Fricker, Karl: See—
Limpinsel, Gunter; and Fricker, Karl, 3,658,261.
- Fricker, Ludwig: See—
Fiedler, Horst; and Fricker, Ludwig, 3,695,376.
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Novikov, Alexei Viktorovich; Fridman, Lev Petrovich; Zinkovsky, Viktor Antonovich; Denisov, Vladimir Ivanovich; Fisenko, Konstantin Vitalievich; Rattenberg, Vadim Nikolaevich; and Presnyakov, Alexandr Alexandrovich, 3,683,998.
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Wochnowski, Waldemar; and Friebel, Heinz, 3,655,043.
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Arvay, Frank Joseph; Frieber, George; Lechleider, Joseph William; and Sutton, Robert Anderson, 3,678,379.
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Arens, Egidius; Muller-Lindemann, Dieter; and Triebold, Karl-Friedrich, 3,705,334.
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- Aust, Manfred; and Smuda, Gerhard, 3,679,520.
- Brylka, Rudolf; and Kleinwachter, Hans-Jürgen, 3,666,174.
- Busch, Carl Wilhelm; and Scheer, Kurt, 3,648,283.
- Ehle, Joachim, 3,633,788.
- Hejji, Erwin, 3,692,001.
- Jungel, Heinrich, 3,695,721.
- Kehse, Wolfgang, 3,634,201.
- Kehse, Wolfgang, 3,634,471.
- Krumrey, Alfred, 3,650,415.
- Kugler, Manfred; Muller, Gerd; and Schwarz, Gunter, 3,637,193.
- Macrander, Karl, 3,661,279.

- Macrander, Karl; and Kessel, Heinrich, 3,687,307.
 Macrander, Karl, 3,687,309.
 Manthey, Harald, 3,647,327.
 Scheer, Kurt, 3,646,557.
 Schwarz, Werner, 3,696,328.
 Stednitz, Wolfgang Richard Ernst, 3,691,513.
 Taeger, Joachim, 3,631,985.
 Ulrich, Klaus-Herbert; Doering, Dieter; and Borowski, Kurt, 3,661,725.
 Wetzel, Rolf Emil; and Janssen, Willi, 3,647,417.
 Winzer, Wolfgang; and Piotrowski, Reinhard, 3,654,025.
 Fried, Louis: *See—*
 Fried, Alan J.; and Fried, Louis, 3,675,274.
 Fried, Norman: *See—*
 Karr, Lawrence J.; and Fried, Norman, 3,700,313.
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 Abbate, Ronald A., Jr.; and Fried, Stewart J., 3,658,398.
 Friedel, Murray, to Visual Graphics Corporation. Photoprinting and processing device. 3,632,204, 1-4-72, Cl. 355-27.
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 Friederichs, Edgar E.: *See—*
 Friederichs, Josef E.; Friederichs, Edgar E.; and Weg, Leo, 3,655,052.
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 Friedland, V. & E., Limited: *See—*
 Doggart, John; and Gleave, Paul Rogerson, 3,683,845.
 Friedlander, Charles B.: *See—*
 Parker, Earl E.; and Friedlander, Charles B., 3,673,132.
 Friedlander, Richard F. Traveling agricultural sprinkler. 3,684,178, 8-15-72, Cl. 239-189.000.
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 Friedlander, William S.: *See—*
 Jonnes, Nelson; and Friedlander, William S., 3,660,849.
 Friedline, Ernest J.: *See—*
 Heaton, James W.; Eversole, William C.; and Friedline, Ernest J., 3,690,783.
 Friedline, Kenneth L., to Borg-Warner Corporation. Overdrive electronic control system. 3,688,609, 9-5-72, Cl. 74-866.000.
 Friedman, Abraham. Collapsible shopping cart. 3,640,547, 2-8-72, Cl. 280-36.
 Friedman and Goodman: *See—*
 Posner, Seymour J., 3,697,787.
 Friedman, Arnold I.; and Bartholomew, Ralph L., to General Electric Company. Application of conductive inks. 3,647,532, 3-7-72, Cl. 117-212.
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 Friedman, David: *See—*
 Segal, Bernard M.; and Friedman, David, 3,656,243.
 Friedman, David; and Levy, Kenneth, to Computervision Corporation. Signal level-to-pulse rate converter. 3,660,782, 5-2-72, Cl. 332-1.
 Friedman, David, to Computervision Corporation. Method and apparatus for positioner calibration system. 3,671,748, 6-20-72, Cl. 250-201.000.
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 Friedman, Donald: *See—*
 Di Napoli, Nicholas; Friedman, Donald; Nicholls, Robin P.; Wilcox, Howard A.; and Wood, Charles E., 3,665,397.
 Friedman, Edward: *See—*
 Roth, Roy William; and Friedman, Edward, 3,633,578.
 Friedman, Harry George, Jr.: *See—*
 Poziomek, Edward J.; Hackey, Ethel B.; Hoy, Daniel J.; and Friedman, Harry George, Jr., 3,689,223.
 Friedman, Herman H.; and Pennelle, Donald K., to General Foods Corporation. Stabilized roasted coffee aroma. 3,649,296, 3-14-72, Cl. 99-71.
 Friedman, Herman H., to General Foods Corporation. Molecular fractionation by pulsed centrifugation. 3,664,845, 5-23-72, Cl. 99-57.
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 Friedman, Julius J.: *See—*
 Freedman, Frank B.; Friedman, Julius J.; and Williams, Bruce P., 3,682,172.
 Friedman, Lester; Rattenbury, Kenneth H.; and Guttag, Alvin, to Weston Chemical Corporation. Hydrogenated bis phenol diphosphites. 3,641,218, 2-8-72, Cl. 260-928.
 Friedman, Lester, to Weston Chemical Corporation. Pentaerythritol diphosphites. 3,655,831, 4-11-72, Cl. 260-927.
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 Friedman, Moshe; and Ury, Michael G., to United States of America, Navy. High power pulsed electron beam. 3,700,945, 10-24-72, Cl. 313-84.000.
 Friedman, Orrie M.: *See—*
 Kim, Young-Ho; Grubliauskas, Vytautas; and Friedman, Orrie M., 3,637,695.
 Friedman, Paul: *See—*
 Cutler, Lester M.; and Friedman, Paul, 3,705,578.
 Friedman, Perry L. Combination carrying case and stand for trumpet. 3,637,070, 1-25-72, Cl. 206-13.
 Friedman, Robert: *See—*
 Burley, Richard Kenneth; Friedman, Robert; and Esher, Howard D., 3,689,734.
 Friedman, Robert. Apparatus for moving a member to a selected position. 3,648,139, 3-7-72, Cl. 318-265.
 Friedman, Robert; Leshner, Howard D.; and Burley, Richard K., to North American Aviation, Inc. Automatic welding system. 3,657,511, 4-18-72, Cl. 219-125.
 Friedman, Ronald L.: *See—*
 Lewis, Roger N.; and Friedman, Ronald L., 3,652,524.
 Lewis, Roger N.; and Friedman, Ronald L., 3,687,867.
 Friedmann, David A.; and Fisenpresser, Marvin L. Can closure structure. 3,659,738, 5-2-72, Cl. 220-42.
 Friedrich Deckel Prazisions Mechanik & Maschinenbau: *See—*
 Reeber, Rudolf; and Lanzemberger, Horst, 3,633,457.
 Friedrich Deckel Prazisions Mechanik und Maschinenbau: *See—*
 Bschorer, Konrad, 3,697,041.
 Friedrich, Edmund; and Strubin, Harald, to Aktiengesellschaft Brown, Boveri & Cie. Gas-blast circuit-breaker with double nozzle contact system. 3,649,790, 3-14-72, Cl. 200-148.
 Friedrich, Friedrichshafen: *See—*
 Magg, Alfred; and Friedrich, Friedrichshafen, 3,682,014.
 Friedrich, Gerhard: *See—*
 Riese, Hans-Walter; and Friedrich, Gerhard, 3,672,478.
 Friedrich Grohe Armaturenfabrik: *See—*

- Bayer, Friedrich, 3,633,870.
 Friedrich, Hans Helmut: *See—*
 Wirth, Hermann Otto; Friedrich, Hans Helmut; and Mras, Veronika, 3,658,860.
 Friedrich, Hans Joachim; and Meyer, Horst, to Starck, Hermann C. Method of producing tantalum or niobium powder from compact bodies. 3,635,693, 1-18-72, Cl. 75-5.
 Friedrich, Hans-Helmut: *See—*
 Wirth, Hermann Otto; Maul, Rudolf; Friedrich, Hans-Helmut; and Hess, Wilhelm, 3,649,662.
 Friedrich, Heinz G., to Petro-Tex Chemical Corporation. Multi-chamber fluidized bed catalytic reactor. 3,669,877, 6-13-72, Cl. 208-164.000.
 Friedrich, Herbert; and Trapp, Gunther, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Basic hemicyanine dyestuffs. 3,679,674, 7-25-72, Cl. 260-240.800.
 Friedrich, Howard R., to Hughes Aircraft Company. Laser lens cooling and cleaning system. 3,696,230, 10-3-72, Cl. 219-121.00l.
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 Friedrich, Kevin F., to Westinghouse Electric Corporation. Electrical bushing having a capacitor choir formed by overlapping capacitor elements. 3,692,928, 9-19-72, Cl. 174-143.000.
 Friedrich, Maria S.: *See—*
 Grasselli, Robert K.; and Friedrich, Maria S., 3,666,822.
 Grasselli, Robert K.; and Friedrich, Maria S., 3,666,823.
 Friedrich Maurer Soehne, Firma: *See—*
 Koester, Waldemar, 3,698,292.
 Friedrich, Ralph E.: *See—*
 Habermann, Clarence E.; Friedrich, Ralph E.; and Tefertiller, Ben A., 3,642,894.
 Thomas, Edward J.; and Friedrich, Ralph E., 3,664,938.
 Friedrich Refrigerators Incorporated: *See—*
 Moy, Harry F., 3,636,724.
 Friedrich Schatz; Stachewski, Harry; and Lehnert, Gunther; deceased (by Lehnert, Gerda; administratrix). Apparatus for making thin walled metal tubing. 3,700,158, 10-24-72, Cl. 228-15.000.
 Friedrich, Streck, to Rigips-Stempel GmbH & Co. KG. Sound-retarding wall elements. 3,687,223, 8-29-72, Cl. 181-33.00g.
 Friedrich Uhde GmbH: *See—*
 Schewinfurth, Hans; and Lambach, Rolf, 3,687,420.
 Staarmann, Herbert; Brieke, Hans-Gunter; and Gerdes, Dirk, 3,701,635.
 Friedrichs, Ingo, to Eisenwerk Weserhutte A.G. Hydrostatically balanced plate valve with low flow resistance. 3,707,169, 12-26-72, Cl. 137-625.210.
 Friedrichsen, Wilhelm; Poehler, Guenter; Goeschel, Gert; and Schaefer, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Filled reaction tube provided with temperature sensors. 3,656,914, 4-18-72, Cl. 23-288.
 Friedrichsen, Wilhelm; and Goehre, Otto, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Supported catalysts containing vanadium pentoxide and titanium dioxide and their use for the production of carboxylic acids and carboxylic acids and carboxylic anhydrides. 3,684,741, 8-15-72, Cl. 252-435.000.
 Friedsam, Josef: *See—*
 Herzhoff, Peter; Gref, Hans; Behr, Rolf; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Friedsam, Josef; and Browatzki, Kurt, 3,638,604.
 Herzhoff, Peter; Gref, Hans; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Browatzki, Kurt; and Friedsam, Josef, 3,645,773.
 Herzhoff, Peter; Gref, Hans; Maus, Fritz; Wasser, Willi; Friedsam, Josef; and Schweicher, Wolfgang, 3,663,292.
 Herzhoff, Peter; Gref, Hans; Maus, Fritz; Wasser, Willi; Browatzki, Kurt; Friedsam, Josef; and Schweicher, Wolfgang, 3,682,679.
 Friehe, Bernhard. Apparatus for the aeration of liquids. 3,648,989, 3-14-72, Cl. 261-91.
 Friel, Ronald Norman: *See—*
 Castellano, Joseph Anthony; and Friel, Ronald Norman, 3,674,342.
 Frielinghaus, Klaus H.: *See—*
 Bolton, Norman A.; and Frielinghaus, Klaus H., 3,651,453.
 Frielinghaus, Klaus H., to General Signal Corporation. Boat berthing monitor incorporating sonar and doppler radar techniques. 3,707,717, 12-26-72, Cl. 343-6.000.
 Frielingsdorf, Hans; Mueller-Tamm, Heinz; and Mahling, Dieter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of flat structural sandwich constructions. 3,634,166, 1-11-72, Cl. 156-244.
 Frielingsdorf, Hans; Mueller-Tamm, Heinz; and Mahling, Dieter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Method of producing metal-clad plastic panels. 3,684,610, 8-15-72, Cl. 156-244.000.
 Friend, Chester A., Jr.: *See—*
 Howatson, James F.; and Friend, Chester A., Jr., 3,688,988.
 Friend, George R.: *See—*
 Friend, Robert P.; and Friend, George R., 3,691,817.
 Friend, Harvey L.: *See—*
 Hess, Hugo J. A.; Milligan, James W.; and Friend, Harvey L., 3,638,116.
 Friend, Homer C. Hydrotherapy apparatus. 3,641,996, 2-15-72, Cl. 128-66.
 Friend, Lindsay C., to Berg Electronics, Inc. Circuit board socket. 3,681,738, 8-1-72, Cl. 339-17.00r.
 Friend, Robert P.; and Friend, George R. Mobile frame and body straightener. 3,691,817, 9-19-72, Cl. 72-705.000.
 Friend, Thomas Albert. Scald shield. 3,653,685, 4-4-72, Cl. 280-159.
 Fries & Fries Inc.: *See—*
 Revie, Gilbert N., 3,660,115.
 Fries, Bernard J., to Steelcase, Inc. Telescoping chair base. 3,667,716, 6-6-72, Cl. 248-405.000.
 Fries, Bernd: *See—*
 Baumgartner, Siegfried; Fries, Bernd; Lidl, Rolf; and Zippe, Gunter, 3,674,408.
 Fries, Gunter Karl; to Moeller & Neumann GmbH. Continuously rotating shears. 3,643,537, 2-22-72, Cl. 83-305.
 Fries, Gunter Karl; and Marx, Berthold Jakob, to Moeller & Neumann GmbH. Shearline for trimming plates and sheets, in particular heavy plates, by means of circular cutter means. 3,662,638, 5-16-72, Cl. 83-367.
 Fries, Hugo, to Pumpenfabrik Urach. Piston pump. 3,702,624, 11-14-72, Cl. 137-512.000.
 Fries, James R., to Boeing Company, The. Multiple antenna instrument landing system. 3,671,967, 6-20-72, Cl. 343-108.00r.
 Fries, Ludwig; Mundil, Rudolf; and Wiechers, Herbert, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of arylchlorosilanes in accordance with the Rochow synthesis. 3,655,709, 4-11-72, Cl. 260-448.2.
 Fries, Walter: *See—*
 Berg, Markus; Fries, Walter; and Kirstahler, Alfred, 3,676,340.
 Berg, Markus; Fries, Walter; and Lohr, Albrecht, 3,689,424.
 Walter, Dieter; Fries, Walter; and Gotte, Ernst, 3,673,096.
 Fries, Walter; Berg, Markus; Dohr, Manfred; and Kirstahler, Alfred, to Henkel & Cie G.m.b.H. Detergent compositions containing a textile softener. 3,676,338, 7-11-72, Cl. 252-8.750.
 Friese, Andre: *See—*
 Finkhauser, Dieter; and Friese, Andre, 3,673,341.
 Friesen, Peter. Trailer construction. 3,701,561, 10-31-72, Cl. 296-27.000.
 Friess, Emmanuel: *See—*
 Corraard, Daniel; Friess, Emmanuel; Salvi, Antoine; and Tregoures, Roger, 3,681,689.
 Friess, Richard G., to Hughes Aircraft Company. Electric resistance welder and method. 3,659,074, 4-25-72, Cl. 219-111.
 Friestad, Roland W. Liquid level gauge. 3,688,578, 9-5-72, Cl. 73-313.000.
 Friesz, Elmo W.: *See—*
 Brumagin, Thomas H.; Dickson, John M.; Northrop, Harley E.; Campbell, Lynn W.; Brown, Stanley H.; and Friesz, Elmo W., 3,689,049.
 Friesz, Rheinhardt. Classifying separator for unpoured, flowable rock-gravel, sand and cement slurry mixture from concrete mixer. 3,695,427, 10-3-72, Cl. 209-44.000.
 Frieztzsche, Angelika: *See—*
 Richter, Gerhard; Kroes, Magdalena; and Frieztzsche, Angelika, 3,674,710.
 Frigitronics of Conn., Inc.: *See—*
 Zaccarian, Setrag A., 3,702,114.
 Frigosandia Contracting AB: *See—*
 Astrom, Per Sture, 3,635,045.
 Frilette, Vincent J., to Mobil Oil Corporation. Method for dehydrating moisture-containing materials using carbon monoxide and a crystalline aluminosilicate catalyst. 3,634,533, 1-11-72, Cl. 260-674.
 Frilette, Vincent J.; and Maatman, Russell W., to Mobil Oil Corporation. Catalyst and method for preparing same. 3,650,990, 3-21-72, Cl. 252-455.
 Friely, Paul B.: *See—*
 Siegfried, Edward C.; Harwell, Conner J.; and Murphy, Shields, 3,677,687.
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 Frimberger, Herbert H., to Polymer Machinery Corporation. Safety lock device. 3,653,702, 4-4-72, Cl. 292-251.
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 Fripiat, Jose: *See—*
 Faillie, Marc Della; Fripiat, Jose; and Mercier, Jean, 3,692,816.
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 Lloyd, John George; and Fripp, Alan, 3,641,501.

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Beeley, Michael G.; Frisby, Paul W.; and Thompson, Richard D., 3,644,085.

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Frisch, Peter: See—

Scherer, Otto; Rammelt, Paul Peter; Korinth, Jürgen; and Frisch, Peter, 3,660,307.

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Eriksson, Erik Helmer; Frisk, Olof Edvin; Hogberg, Lars-Gunnar; Lofgren, Stig-Gunnar; and Tjarnstrom, Sven Paul, 3,659,636.

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Bouchard, Jean; Frison, Roger; and Treille, Pierre, 3,655,587.

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Wohgemuth, Larry G.; and Fritock, William H., 3,647,760.

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Fritsch, Werner: See—

Haede, Werner; Stache, Ulrich; Fritsch, Werner; and Radscheit, Kurt, 3,639,388.

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Radscheit, Kurt; Stache, Ulrich; Haede, Werner; Fritsch, Werner; and Lindner, Ernst, 3,641,009.

Radscheit, Kurt; Fritsch, Werner; Haede, Werner; and Stache, Ulrich, 3,657,228.

Radscheit, Kurt; Fritsch, Werner; Haede, Werner; Stache, Ulrich; and Schroder, Hans-Georg, 3,657,434.

Radscheit, Kurt; Kelkheim, Taunus; Stache, Ulrich; Haede, Werner; Hofheim, Taunus; Fritsch, Werner; Neuenhain, Taunus; and Lindner, Ernst, 3,681,344.

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Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Radscheit, Kurt, 3,639,394.

Stache, Ulrich; Haede, Werner; Fritsch, Werner; Radscheit, Kurt; and Schroder, Hans-Georg, 3,663,579.

Stache, Ulrich; Radscheit, Kurt; Fritsch, Werner; Haede, Werner; and Lindner, Ernst, 3,674,779.

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Ley, Kurt; Eholzer, Ulrich; Metzger, Karl Georg; and Fritsche, Dieter, 3,651,229.

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Nast, Roland; Ley, Kurt; Eholzer, Ulrich; Metzger, Karl-Georg; and Fritsche, Dieter, 3,639,400.

Seng, Florin; Ley, Kurt; Metzger, Karl-Georg; and Fritsche, Dieter, 3,639,397.

Fritsche, Gale Ray, to Sandel Industries, Inc. Method for homogeneous refining and continuously casting metals and alloys. 3,650,311, 3-21-72, Cl. 164-52.

Fritsch, Walter William, to Bell Telephone Laboratories, Incorporated. Arrangement for reducing glare on two-way trunks. 3,700,822, 10-24-72, Cl. 179-18.0ah.

Fritschy, Hugo: See—

Futterer, Bodo; and Fritschy, Hugo, 3,643,331.

Fritts, Russell A.; and Nebold, Jerome I., to Black and Decker Manufacturing Company. The. Pressurized fluid device. 3,673,921, 7-4-72, Cl. 91-299.000.

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Fritz, Alton L., to Royal Industries, Inc. Protective and decorative edging. 3,635,114, 1-18-72, Cl. 83-406.

Fritz, Edward A., to International Harvester Company. Forage harvester combination. 3,646,735, 3-7-72, Cl. 56-14.7.

Fritz, Edward J.: See—

Middendorf, William H.; Myers, Ralph S.; Fritz, Edward J.; and Koch, Jack N., 3,638,173.

Middendorf, William H.; and Fritz, Edward J., 3,649,784.

Fritz, Egon, to Reiners, Walter. Method of operating a warp knitting machine, especially a Raschel knitting machine, and device for carrying out the method. 3,664,154, 5-23-72, Cl. 66-86.

Fritz, Fred A., to Hercules Incorporated. Mach effect in presplitting. 3,654,866, 4-11-72, Cl. 102-23.

Fritz, Fred A., to Hercules Incorporated. Modified presplitting technique. 3,687,075, 8-29-72, Cl. 102-23.000.

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Ueltschi, Odette, 3,670,974.

Fritz Geisenberger: See—

Grimm, Gerhard, 3,689,152.

Fritz, Ira T.: See—

Matson, Howard J.; and Fritz, Ira T., 3,637,502.

Fritz, Joseph Henry; and Johns, Thomas Gerald, to Bell Telephone Laboratories, Incorporated. Microhardness tester regulated by a magnetostriuctive control arrangement. 3,693,417, 9-26-72, Cl. 73-81.000.

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Fritz, Norman George, to International Harvester Company. Blast valve actuator. 3,643,583, 2-22-72, Cl. 98-119.

Fritz, Paul C. Ribbon-type garage parking device. 3,664,291, 5-23-72, Cl. 116-28.000.

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Fritz, Rene Eugene: See—

Fritz, Rene; and Fritz, Rene Eugene, 3,687,269.

Fritz, Richard C.; and Galvanoni, Aldo B., to Phillips Petroleum Company. Packaging with heat shrinkable film. 3,640,049, 2-8-72, Cl. 53-30.

Fritz, Robert; Beckh, Horst; and Torggler, Norbert, to Siemens Aktiengesellschaft. Arrangement for the reciprocal acceptance of calls. 3,636,267, 1-18-72, Cl. 179-18.

Fritz, Robert William: See—

Jacobs, Wayne John; Fritz, Robert William; and Peiffer, Howard Richard, 3,697,389.

Fritz, William Baird; Sanders, Neil Harrison; Reyner, Emerson Marshall, III; and Fox, Harry Alvin, Jr., to AMP Incorporated. Monolithic mad. 3,683,494, 8-15-72, Cl. 29-604.000.

Fritz, William Baird; and Hudson, William Jeffrey, Jr., to AMP Incorporated. Filter for a video amplifier. 3,699,272, 10-17-72, Cl. 179-170.00f.

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Fritzberg, Edward L., to Pillsbury Company, The. Vacuum puffed foods. 3,650,769, 3-21-72, Cl. 99-134.

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Fritze, Hartwig; Eisenmann, Wolhart; and Preger, Max, to Escher Wyss GmbH. Method and apparatus for drying organic materials. 3,664,033, 5-23-72, Cl. 34-12.000.

Fritze, Kurt. Device for road vehicles for the wireless transmission of at least one measured value of a rotating wheel to an indicating instrument. 3,662,335, 5-9-72, Cl. 340-58.

Fritze, William R.; and Scarlett, Wallace W., to Plymouth Flush Door, Inc. Manufacture of bifold doors. 3,664,009, 5-23-72, Cl. 29-429.

Fritzing, Larry B.; and Lepselter, Martin P., to Bell Telephone Laboratories, Incorporated. Method of eliminating pinhole shorts in an air-isolated crossover. 3,647,585, 3-7-72, Cl. 156-17.

Fritzus, Robert S. Ion wind generator. 3,638,058, 1-25-72, Cl. 313-63.

Fritzsche Dodge & Olcott Inc.: See—

Gunther, Roland, 3,642,497.

Kulka, Kurt, 3,637,753.

Fritzsche, Donald E., to General Electric Company. Work surface clamping means for drop-in cooking equipment. 3,701,171, 10-31-72, Cl. 4-187.00a.

Fritzsche, Harold L., to General Electric Company. Apparatus for applying powered coating material to an article. 3,696,780, 10-10-72, Cl. 118-69.000.

Frix, Lee R., to Volunteer Enterprises, Inc. Firing mechanism for semiautomatic firearms. 3,695,143, 10-3-72, Cl. 89-145.000.

Friz, Adolf, Gesellschaft mit beschränkter Haftung: See—

Friz, Helmut A.; and Dettelbach, Alfred, 3,659,554.

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Froberg, Magnus L., to Owens-Corning Fiberglas Corporation. Heating furnaces. 3,633,886, 1-11-72, Cl. 263-15.

Froch, Siegfried: See—

Meussen, Louis Achilles; Stievenart, Emile Frans; Schranz, Karl-Wilhelm; Busch, Josef; Froch, Siegfried; and Bruck, Herbert, 3,662,665.

Frock, Brian G., to National Cash Register Company, The. Reversible record and storage medium. 3,704,467, 11-28-72, Cl. 346-1.000.

Frodsham, Vaughn D., 17 1/2% to Lyon, Dudley. Eating implement. 3,648,369, 3-14-72, Cl. 30-141.

Froebe, Ronald L.; and Hatch, Howard H., to Bourne, Inc. Multi-wire potentiometer contact device. 3,704,436, 11-28-72, Cl. 338-202.000.

Froedge, Don T. Plastic extrusion device. 3,665,158, 5-23-72, Cl. 219-421.

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Froehlich, Fritz Edgar: See—

Fisher, George Myles Cordell; Froehlich, Fritz Edgar; Levin, William; McDowell, Blake, III; and O'Boyle, Leonard Edward, 3,706,850.

Froehlich, Walter; and Lang, Walter, to Zeiss-Stiftung, Carl and Siemens Aktiengesellschaft. Means for evaluating and displaying certain image portions occurring within a total image. 3,706,851, 12-19-72, Cl. 178-6.800.

Froelich, Ronald W.: See—

Miller, Jack V.; and Froelich, Ronald W., 3,652,848.

Froemke, James W., to International Business Machines Corporation. Bidirectional counter. 3,632,997, 1-4-72, Cl. 235-92.

Froeschle, Thomas A., to Bose Corporation, The. Turn on turn off feedback drive switching circuit. 3,657,569, 4-18-72, Cl. 307-275.

Froeschle, Thomas A., to Bose Corporation, The. Current sensing of inductor current in series with transformer winding. 3,663,949, 5-16-72, Cl. 323-17.

Froese, Richard Joseph: See—

Petri, William Edward, Jr.; and Froese, Richard Joseph, 3,686,979.

Frogameni, James: See—

Paulson, Loree A. D.; Cahoon, John A.; and Frogameni, James, 3,648,956.

Froget, Pierre, to "Griesser". Method of manufacturing a composite web. 3,661,665, 5-9-72, Cl. 156-65.

Froget, Pierre, to "Griesser" Alpes Maritimes. Device for slide-shifting and winding twin vertical screens or blades. 3,701,376, 10-31-72, Cl. 160-121.000.

Frohberger, Paul-Ernst: See—

Buchel, Karl Heinz; Grewe, Ferdinand; Frohberger, Paul-Ernst; and Kaspers, Helmut, 3,660,410.

Colln, Reimer; and Frohberger, Paul-Ernst, 3,707,497.

Daum, Werner; Scheinplugg, Hans; Frohberger, Paul-Ernst; and Grewe, Ferdinand, 3,673,210.

Eindeisen, Kurt; and Frohberger, Paul-Ernst, 3,686,410.

Kuhle, Engelbert; Klauke, Erich; Frohberger, Paul-Ernst; and Scheinplugg, Hans, 3,658,992.

Frohbieter, Edwin H., to Whirlpool Corporation. Solution pump with super charged suction for absorption air conditioner. 3,639,087, 2-1-72, Cl. 417-572.

Frohlich, Alfons: See—

Heimberger, Helmut; and Frohlich, Alfons, 3,663,996.

Frohlich, Alfons; and Rohn, Karl, to Opti-Holding AG. Method of and apparatus for making slide-fastener stringers. 3,633,528, 1-11-72, Cl. 112-265.

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Frohlich, Josef; and Leguyt, Jacob, to Mannesmann Aktiengesellschaft. Turning joint for pipes. 3,649,056, 3-14-72, Cl. 285-276.

Frohlich, Josef; and Leguyt, Jacob, to Mannesmann Aktiengesellschaft. Jointed delivery equipment for fluids, particularly low temperature liquids. 3,675,680, 7-11-72, Cl. 137-615.000.

Frohlich, Karl. Pressure intensifier for windshield wipers. 3,685,086, 8-22-72, Cl. 15-250.200.

Frohling, Josef. Measuring and control apparatus. 3,665,743, 5-30-72, Cl. 72-11.000.

Frohmman-Bentchkowsky, Dov, to Fairchild Camera and Instrument Corporation. Integrated MNOS memory organization. 3,641,512, 2-8-72, Cl. 340-173.

Frohning, Hans, to Goldschmidt, Th., A.-G. Procedure for temporarily attaching a pressure plate to a heater plate. 3,684,613, 8-15-72, Cl. 156-289.000.

Froio Corporation: See—

Froio, Nicholas J., 3,655,021.

Froio, Nicholas J., 3,700,078.

Froio, Nicholas J., to Froio Corporation. Imbalanced braking device. 3,655,021, 4-11-72, Cl. 193-35.

Froio, Nicholas J., to Froio Corporation. Speed retarding device. 3,700,078, 10-24-72, Cl. 188-180.000.

Frolich, Heinrich: See—

Kuhne, Rudolf; Meininger, Fritz; and Frolich, Heinrich, 3,637,648.

Frolich, Martin. Method of sterilising apparatus for the heat treatment of liquid products. 3,661,505, 5-9-72, Cl. 21-56.

Frolov, Alexei Sergeevich: See—

Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pyanov, Valentin Nikiforovich; Golovkin, Jury Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.

Frolov, Jury Fedorovich; Nechaev, Ivan Petrovich; Basalaev, Anany Maximovich; Bedarev, Jury Dmitrievich; and Golikov, Viktor Valerjanovich. Device for sealing gap between electrode and lining of electric arc furnace. 3,697,660, 10-10-72, Cl. 13-17.

Fromageries Bel-La Vache qui Rit: See—

Guyonnet, Marcel Aime Rene, 3,693,674.

Joux, Jean-Louis Fernand; Mignot, Bernard Michel; and Billon, Michel Gaston Albert, 3,693,256.

Froman, Griff W., to Inland Steel Company. Method for anodizing aluminized steel strip. 3,650,910, 3-21-72, Cl. 204-28.

Froman, William H.: See—

Smith, Russell J.; and Froman, William H., 3,643,729.

Fromell, Rolf Ivar. Variable hexagon spanner. 3,670,604, 6-20-72, Cl. 81-98.000.

Fromknecht, Charles T.: See—

Batson, William A.; and Fromknecht, Charles T., 3,636,681.

Batson, William A.; and Fromknecht, Charles T., 3,668,842.

- Bolzan, James J., Jr.; and Fromknecht, Charles T., 3,651,536.
 Fromm, Hermann Dieter; Leonhard, Karl Wilhelm; Mohr, Rudolf; Schwarzmann, Matthias; and Woehle, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of melamine. 3,657,236, 4-18-72, Cl. 260-249.7.
 Fromm, Marvin M.: See—
 Anderson, Robert L.; and Fromm, Marvin M., 3,662,199.
 Fromme, Richard H. Vehicle cleaning device. 3,683,441, 8-15-72, Cl. 15-97.000.
 Frommelt, Hans-Dieter; and Rauhut, Herbert, to Keuffel & Esser Company, mesne. Light-sensitive one-component diazotype material. 3,634,090, 1-11-72, Cl. 96-91.
 Frommelt, Cyril P.; and Frommelt, Sylvan J., to Dubuque Awning & Tent Company. Loading dock shelters. 3,638,667, 2-1-72, Cl. 135-5.
 Frommelt, Cyril P.; and Frommelt, Sylvan J., to Dubuque Awning & Tent Company. Loading dock shelters. 3,653,173, 4-4-72, Cl. 52-173.
 Frommelt, Cyril P.; and Frommelt, Sylvan J., to Dubuque Awning & Tent Company. Loading dock shelters. 3,699,733, 10-24-72, Cl. 52-204.000.
 Frommelt, Sylvan J.: See—
 Frommelt, Cyril P.; and Frommelt, Sylvan J., 3,638,667.
 Frommelt, Cyril P.; and Frommelt, Sylvan J., 3,653,173.
 Frommelt, Cyril P.; and Frommelt, Sylvan J., 3,699,733.
 Frommer, Werner; and Otto Wagner, Wuppertal-Elberfeld, to Farbenfabriken Bayer Aktiengesellschaft. Fibrinolysokinasen from streptomycetes. 3,660,239, 5-2-72, Cl. 195-66.
 Fromson, Howard A. Continuous metal casting method and apparatus. 3,658,117, 4-25-72, Cl. 164-89.
 Fronczek, Edward J.: See—
 Desmond, Richard J.; Fronczek, Edward J.; and McCarthy, John J., 3,649,803.
 Desmond, Richard J.; Fronczek, Edward J.; and McCarthy, John J., 3,669,478.
 Froning, H. R.: See—
 Dauben, Dwight L.; Froning, H. R.; and Jones, Loyd W., 3,670,819.
 Froning, Herman D., Jr.; Hopkins, Dean F.; and Klevatt, Paul L., to McDonnell Douglas Corporation. Missile steering system. 3,637,167, 1-25-72, Cl. 244-3.21.
 Frontier Industries, Inc.: See—
 Streb, Ernest L., 3,650,501.
 Frontino, John E. Three dimensional artistic design construction and method of producing same. 3,694,296, 9-26-72, Cl. 161-18.000.
 Frorath, Karl-Friedrich: See—
 Preisler, Eberhard; Frorath, Karl-Friedrich; and Strauss, Georg, 3,634,215.
 Froschle, Ernst. Optical bulk storage arrangement for a digital computer. 3,663,752, 5-16-72, Cl. 178-7.2.
 Frossard, Jacques Jean: See—
 Weber, Abraham; Frossard, Jacques Jean; and Bouzard, Daniel, 3,644,417.
 Weber, Abraham; Frossard, Jacques Jean; and Bouzard, Daniel, 3,647,877.
 Weber, Abraham; and Frossard, Jacques Jean, 3,651,087.
 Weber, Abraham; and Frossard, Jacques Jean, 3,700,663.
 Weber, Abraham; and Frossard, Jacques Jean, 3,704,250.
 Frost, Charles E., & Co.: See—
 Holden, George W., 3,644,618.
 Stuart, Ronald Stiles; and Wasson, Burton K., 3,686,176.
 Wasson, Burton K., 3,655,661.
 Wasson, Burton K.; and Williams, Haydn W. R., 3,700,691.
 Weinstock, Leonard M.; Tull, Roger J.; and Mulvey Dennis M., 3,657,237.
 Frost, Bernard John: See—
 Ivey, John Saxon; and Frost, Bernard John, 3,631,872.
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 Frost, Harold A.; and Simpson, Melvin R., to Eaton Yale & Towne, Inc. Tire inflation monitoring system. 3,691,524, 9-12-72, Cl. 340-58.000.
 Frost, Jack A.: See—
 Forsyth, Frank J., Jr., 3,636,495.
 Frost, James D., Jr.: See—
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 Frost, Richard H.: See—
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 Roslonski, Donald J., 3,668,888.
 Frostling, Bengt Harald Ivar: See—
 Brantte, Arnold; Frostling, Bengt Harald Ivar; and Lindgren, Per-Henning, 3,671,196.
 Frot, Guy Gabriel: See—
 Dewilde, Francois; and Frot, Guy Gabriel, 3,646,051.
 Dewilde, Francois; and Frot, Guy Gabriel, 3,702,329.
 Frotscher, Herbert: See—
 Rall, Ulrich; Frotscher, Herbert; and Petzold, Manfred, 3,669,702.
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 Tantlinger, Keith W., 3,633,954.
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 Fruhholz, Georg: See—
 Acker, Josef; Hofmann, Albert; and Fruhholz, Georg, 3,696,845.
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 Fruitgrowers Chemical Company Limited: See—
 Taylor, Geoffrey Gordon, 3,672,945.
 Fruits, Burl E. Animal trap. 3,688,432, 9-5-72, Cl. 43-61.000.
 Frulla, Floro F.: See—
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 Doering, William Von E.; Farrissey, William J., Jr.; and Frulla, Floro F., 3,683,034.
 Frummerman, Robert: See—
 Allison, Robert J.; Hatfield, Paul E.; and Frummerman, Robert, 3,669,623.
 Frummerman, Robert; and Mc Adoo, John D., Jr., to Westinghouse Electric Corporation. System for the removal of hydrogen from nuclear containment structures. 3,658,996, 4-25-72, Cl. 23-252.
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 Dichinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosilovich; Anikanov, Nikolai Ivanovich; Grachev, Leonid Pavlovich; and Frumkin, Mikhail Evseevich, 3,702,186.
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 Fry, Darryl Diamond: See—
 Patterson, Paul Raymond; Fry, Darryl Diamond; and Klothen, Irving, 3,689,551.
 Fry, David P.: See—
 Crowe, Alan; and Fry, David P., 3,652,489.
 Fry, David Philip, to British Resin Products Limited. Polymer compositions containing unsaturated polyester, vinyl monomer, polyester plasticizer, and thermoplastic polymer. 3,642,683, 2-15-72, Cl. 260-31.6.
 Fry, Earl E. Piano keyboard with magnetic key control. 3,680,426, 8-1-72, Cl. 84-433.000.
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 Fry, Rosemary: See—
 Plakas, Chris J.; and Fry, Rosemary, 3,646,345.
 Fry, William G.: See—
 Kelly, Vincent J.; and Fry, William G., 3,685,999.
 Fryatt, Leslie Alva: See—
 Cooper, Michael Henry; and Fryatt, Leslie Alva, 3,673,904.
 Fryatt, Leslie Alva, to Fenner, J. H., & Co. Folding of flexible sheet materials. 3,638,592, 2-1-72, Cl. 112-121.14.
 Fryberger, David: See—
 Johnson, Ralph G.; and Fryberger, David, 3,673,327.
 Fryc, Oldrich; Okada, David T.; and Robson, George E., to Mattel, Inc. Aquanaut toy propulsion assembly. 3,638,353, 2-1-72, Cl. 46-92.
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 Frye Industries, Inc., mesne: See—
 Blake, Carl B.; and Tung, George K. L., 3,673,135.
 Deltombe, Emile J., 3,652,429.
 Hsia, Shwang, 3,640,861.
 Surland, Aage, 3,661,619.
 Trimmer, Donald S.; and Bienert, Walter B., 3,653,758.
 Wysocki, John L., 3,660,329.
 Frye, Kenneth G.: See—
 Lucas, Robert G.; and Frye, Kenneth G., 3,645,433.
 Frye, Kenneth G.; Lucas, Robert G.; and Rohosy, Soma M., to Beloit Corporation. Slitter blade mounting assembly. 3,685,379, 8-22-72, Cl. 83-482.000.
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 Brust, Bernard; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,637,675.
 Derieg, Michael Edward; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,651,046.
 Earley, James Valentine; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,644,335.
 Earley, James Valentine; Fryer, Rodney Ian; Ye-Fong Ning, Robert; and Sternbach, Henryk, 3,681,341.
 Earley, James Valentine; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,703,510.
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 Fryklund, Gilbert: See—
 Denis, Richard E.; Sliwowski, Joseph J.; and Fryklund, Gilbert, 3,704,945.
 Sliwowski, Joseph J.; and Fryklund, Gilbert, 3,704,657.

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 Frymire, Garold D.: See—
 Rapport, Jerry; and Frymire, Garold D., 3,676,954.
 Fryrear, Max D.; and Wilson, Eugene M., to Caterpillar Tractor Company. Tilt linkage for bulldozer blade mounting assemblies. 3,653,451, 4-4-72, Cl. 172-804.
 Fry's (London) Limited: See—
 Norfolk, Cyril Leslie, 3,685,373.
 Fry's Metals Limited: See—
 Strauss, Rudolf Siegfried; and Teitz, Peter David, 3,675,307.
 Frystak, Richard: See—
 Costanza, Carl C.; Weber, Walter W.; Bettlejewski, Frank W.; and Frystak, Richard, 3,659,934.
 Frystak, Richard; and Gould, Irwin M., to Bell & Howell Company. Slide magazine. 3,644,033, 2-22-72, Cl. 353-120.
 Fuchi, Yoshikane: See—
 Fukui, Hisaaki; Araki, Takatoshi; and Fuchi, Yoshikane, 3,677,755.
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 Horie, Tatsuo; Fuchigami, Tatsuo; and Okazawa, Mitsus, 3,660,366.
 Fuchs, Alfred. Weed removing tool. 3,663,050, 5-16-72, Cl. 294-50.000.
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 Fuchs, Edward O.: See—
 Baldwin, Wiley M.; Fuchs, Edward O.; and Sharp, Donald J., 3,697,255.
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 Fuchs, Francis Joseph, Jr.: See—
 Archer, John Wesley; and Fuchs, Francis Joseph, Jr., 3,631,706.
 Cartwright, John Sutton; and Fuchs, Francis Joseph, Jr., 3,677,049.
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 Fuchs, Friedrich: See—
 Becke, Friedrich; Fuchs, Friedrich; Kohlaupt, Reinhold; Sander, Bruno; and Thewis, Josef, 3,632,623.
 Widder, Rudi; Distler, Harry; and Fuchs, Friedrich, 3,672,978.
 Fuchs, Gundolf: See—
 Strehlke, Gunter; and Fuchs, Gundolf, 3,636,184.
 Fuchs, Gyula S. Coacting pin-in-hole gears. 3,661,028, 5-9-72, Cl. 74-415.
 Fuchs, Harry B. Method and means for creating artificial gravity in spacecraft. 3,675,879, 7-11-72, Cl. 244-1.0sc.
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 Kasperik, Archibald S.; and Fuchs, Herbert A., 3,655,621.
 Fuchs, Hermann: See—
 Meininger, Fritz; and Fuchs, Hermann, 3,637,645.
 Fuchs, Hugo: See—
 Borchmann, Joern; Fuchs, Hugo; Goeschel, Gert; Sander, Bruno; and Sperber, Heinrich, 3,689,619.
 Fuchs, Hugo; and Sperber, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of trioxane. 3,637,751, 1-25-72, Cl. 260-340.
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 Fuchs, Otto: See—
 Schulte, Friedrich Wilhelm; Diels, Manfred; and Rosenkranz, Wilhelm, 3,672,021.
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Fuchs, Rolf. See—
Schubert, Johannes; and Fuchs, Rolf, 3,635,030.

Fuchs, Siegfried R. E.: See—
Tscheschner, Walter; and Fuchs, Siegfried R. E., 3,652,801.

Fuchs, Walter; and Esche, Horst, to Deutsche Telephonwerk und Kabelindustrie Aktiengesellschaft. Sealed armature contact relay making process. 3,704,514, 12-5-72, Cl. 29-622,000.

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Fuchsle, Klaus. See—
von Fischern, Bernhard; Winkler, Alfred; Fuchsle, Klaus; Zanner, Johann, Jr.; and Ungnadner, Peter, 3,690,751.

Fuchsman, Charles H., to Ferro Corporation. Method of repelling rodents using 2,2'-thiobis(4,6-di-tert-butyl resorcinol). 3,644,649, 2-22-72, Cl. 424-337.

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Fudala, Chester S.: See—
Pickles, Joseph; and Fudala, Chester S., 3,674,238.

Fudemoto, Isao; Tomimori, Kiyoshi; Nakamura, Eiichi; and Kimura, Yutaka, to Fujitsu Limited. Synchronization circuit for receiving and regenerating timing signals in a synchronized digital transmission system. 3,646,269, 2-29-72, Cl. 178-69,5.

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Fue, Ludwig. See—
Westphal, Kurt; Meiser, Werner; Fue, Ludwig; and Hack, Helmut, 3,671,523.

Fuel Injection Engineering Company. See—
Hilborn, Stuart G., 3,656,464.

Fuelberth, Walter K.: See—
Walters, Leslie K.; and Fuelberth, Walter K., 3,648,813.

Fueling, David T.: See—
Turecek, Joseph L.; Craig, Glenn D.; and Fueling, David T., 3,685,364.

Fuentes, Gabriel, Jr. Pile section for forming a pilot hole. 3,668,877, 6-13-72, Cl. 61-53,000.

Fuerst, Ernst; Adam, Karl; Hoffmann, Herwig; Pilch, Kurt; Winderl, Siegfried; and Sanne, Walter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of N-substituted morpholines. 3,649,627, 3-14-72, Cl. 260-247.

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Fueslein, Jerome L., to International Harvester Company. Mechanism for opening and closing an offset disk harrow. 3,643,743, 2-22-72, Cl. 172-329.

Fueslein, Jerome L.; and Adams, William M., to International Harvester Company. Control mechanism for disk harrow. 3,648,780, 3-14-72, Cl. 172-319.

Fueslein, Jerome L., to International Harvester Company. Hinge mechanism for folding disk harrow gangs. 3,650,333, 3-21-72, Cl. 172-311.

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Fuess, Raymond L.: See—
Lagier, Gary G.; and Fuess, Raymond L., 3,658,683.

Fuest, Ronald W.: See—
Farber, Milton; and Fuest, Ronald W., 3,652,734.

Fuest, Ronald W.; and Farber, Milton, to Uniroyal, Inc. Acid dyeable polymeric amine/alkylene hydrocarbon-acrylic acid copolymer modified polyolefin. 3,659,009, 4-25-72, Cl. 260-857.

Fuetsch, William. Chain-hose attachment clips. 3,672,395, 6-27-72, Cl. 137-355,160.

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Fugono, Takeshi. See—
Morimoto, Shiro; Nomura, Hiroaki; Fugono, Takeshi; Maeda, Kihachiro; and Ishiguro, Toshihiro, 3,660,379.

Yamamoto, Hiroichi; Suzuki Takashi; Higashide, Eiji; Fugono, Takeshi; and Mizuno, Komei, 3,676,300.

Fuhr, David R., to General Motors Corporation. Tamperproof resistance sensing supervisory system. 3,646,552, 2-29-72, Cl. 340-409.

Fuhr, Karl. See—
Heine, Hans-Georg; Fuhr, Karl; Rudolph, Hans; and Schnell, Hermann, 3,657,088.

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Fuhring, Heinrich. See—
Hauser, Paul; Pfister, Walter; Stucki, Hans Ulrich; Teuwen, Heinz; Fuhring, Heinrich; and Sieber, Johannes Helmut, 3,665,734.

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Fuhrman, Nathan. See—
Holden, Robert B.; and Fuhrman, Nathan, 3,649,473.

Fuhrman, Nathan, to United States of America, Atomic Energy Commission. Electrochemical carbon meter. 3,700,568, 10-24-72, Cl. 204-1,00t.

Fuhrmann, Robert. See—
Pisanchyn, John; Fuhrmann, Robert; Sifniades, Stylianos; and Tunick, Allen Abraham, 3,681,460.

Fuhrmann, Robert; Pisanchyn, John; and Koff, Fred William, to Allied Chemical Corporation. Beta hydroxyethoxy phenyl isopropylidene benzoic acid and ester derivatives method of preparation and polymers of said compounds. 3,668,182, 6-6-72, Cl. 260-47,00c.

Fuj Polymer Industries Co., Ltd.: See—
Kawaguchi, Nobuhisa, 3,705,120.

Fuji Denki Kagaku Kabushiki Kaisha. See—
Kobayashi, Seihin; and Torii, Michihiro, 3,668,664.

Kobayashi, Seihin; Torii, Michihiro; and Yamakawa, Fujio, 3,675,222.

Kobayashi, Seihin; Torii, Michihiro; and Suzuki, Koichiro, 3,675,223.

Kobayashi, Seihin; and Torii, Michihiro, 3,676,748.

Tsuchida, Takashi; Hayase, Yoshiaki; and Fujisawa, Yoshirou, 3,674,561.

Fuji Denki Seizo Kabushiki Kaisha. See—
Miyoshi, Noriomi, 3,700,970.

Nagae, Masaomi; and Yokokawa, Sumio, 3,663,948.

Nakajima, Tositaka; Okubo, Tomoyuki; Kobayashi, Manabu; and Yoshioka, Kimio, 3,663,943.

Nitta, Yoshio, 3,671,688.

Nitta, Yoshio, 3,689,777.

Yamana, Masaki, 3,652,925.

Fuji Heavy Industries, Ltd.: See—
Ogawa, Osamu, 3,675,670.

Takahashi, Mitsuo, 3,642,084.

Takahashi, Mitsuo, 3,703,215.

Fuji Iron & Steel Co., Ltd.: See—
Uchida, Hiromu; Umezono, Akimi; Saito, Takao; and Enari, Tsutomu, 3,671,205.

Fuji Kiko Company, Limited. See—
Ishida, Hideo, 3,695,570.

Fuji Koki Kabushiki Kaisha. See—
Tsuda, Shozo; and Nozaki, Masanori, 3,663,111.

Fuji Photo Film Co., Ltd.: See—
Akashi, Goro; and Yamada, Yasuyuki, 3,634,137.

Akashi, Goro; Fujiyama, Masaaki; Hirakawa, Takashi; and Suzuki, Osamu, 3,634,253.

Akashi, Goro; and Fujiyama, Masaaki, 3,653,962.

Akashi, Goro; Suzuki, Osamu; and Nakamura, Matsuaki, 3,676,217.

Akashi, Goro; and Yamada, Odawara, 3,689,317.

Amano, Hiroyuki; Tsuji, Nobuo; Miyazaki, Takashi; Shirasu, Kazuo; and Tutiya, Yosinori, 3,650,752.

Amano, Hiroyuki, 3,664,838.

Amano, Hiroyuki; and Shirasu, Kazuo, 3,666,468.

Amano, Hiroyuki; Iwano, Haruhiko; and Shirasu, Kazuo, 3,667,950.

Amano, Hiroyuki; Tsuji, Nobuo; and Shirasu, Kazuo, 3,677,762.

Amano, Hiroyuki; Ohi, Reiichi; and Shirasu, Kazuo, 3,705,036.

Aono, Masazumi; and Fuatagawa, Ikuo, 3,692,555.

Asano, Toshiaki; Uenaka, Kazushige; and Usami, Tomomasa, 3,652,278.

Famai, Yasuo; and Fukushima, Osamu, 3,705,767.

Fujiwara, Hiroto; and Arai, Takuya, 3,648,944.

Fukuda, Shinro, 3,683,123.

Fukuda, Susumu, 3,641,903.

Fukuda, Susumu, 3,653,315.

Fukushima, Osamu; Sato, Masamichi; and Matsumoto, Seiji, 3,707,139.

Hara, Hikoharu; Ohi, Reiichi; Sugiyama, Masatoshi; and Hatano, Tadao, 3,642,481.

Hara, Hikoharu; and Hatano, Tadao, 3,652,277.

Hara, Hikoharu; Oishi, Yasushi; and Nagao, Kameji, 3,676,141.

Hayakawa, Yoshihide; Kawano, Hideo; and Kato, Hirotsu, 3,656,961.

Hayakawa, Yoshihide; and Satomura, Masato, 3,687,667.

Hayakawa, Yoshihide; and Noguchi, Yasuhiro, 3,697,273.

Hayakawa, Yoshihide; and Satomura, Masato, 3,697,275.

Hayakawa, Yoshihide; and Noguchi, Yasuhiro, 3,707,379.

Hayashi, Takao; and Matsukawa, Hiroharu, 3,682,680.

Hiyosi, Hiroshi; and Kanda, Masao, 3,700,490.

Honjo, Satoru; and Tsuji, Nobuo, 3,656,949.

Honjo, Satoru; and Tamai, Yasuo, 3,679,586.

Honjo, Satoru; Tamai, Yasuo; Sato, Masamichi; Matsumoto, Seiichi; and Takimoto, Masaaki, 3,689,260.

Honjo, Satoru; Watarai, Syu; and Ono, Hisatake, 3,704,119.

Honjo, Satoru; Takimoto, Masaaki; Matsumoto, Seiji; and Kosuge, Kuniko, 3,705,032.

Honjo, Satoru; Taguchi, Seiichi; Takimoto, Masaaki; and Miyatake, Hajime, 3,707,392.

Iijima, Yoo; Shimamura, Isao; Kondo, Tokiharu; and Haruhike, Iwano, 3,674,491.

Iijima, Yoo; Shimamura, Isao; Kondo, Tokiharu; and Iwano, Kanagawa, 3,687,669.

Ikegami, Yoshizo; Abe, Kuniomi; Nagai, Maskazu; Fukuda, Susumu; and Kakei, Takehiko, 3,633,484.

Irie, Kazuo; and Suzuki, Keichi, 3,650,757.

Ishida, Hiroshi; and Mukai, Minoru, 3,706,369.

Iwano, Haruhiko; and Shimamura, Isao, 3,649,281.

Iwano, Haruhiko; and Shimamura, Isao, 3,677,760.

Kaneko, Keiji; Shoji, Kitamaru; and Mukai, Minoru, 3,706,180.

Kasugai, Tsuneo; and Ueno, Wataru, 3,660,142.

Kasugai, Tsuneo; and Minagawa, Nobuhiko, 3,669,709.

Kasugai, Tsuneo; and Minagawa, Nobuhiko, 3,679,455.

Kasugai, Tsuneo; Minagawa, Nobuhiko; and Kurabayashi, Hiroyuki, 3,705,808.

Katayama, Shizuo; Matsukawa, Hiroharu; Yamato, Masaya; and Matsuyama, Junichi, 3,687,865.

Kimura, Shiro; Nakazawa, Yoshiyuki; Sato, Akira; and Nakamura, Yasuharu, 3,656,959.

Kimura, Shiro; Kobayashi, Teruo; Ishige, Sadao; and Kiritani, Masataka, 3,663,571.

Kimura, Shiro; Kobayashi, Teruo; and Ishige, Sadao, 3,666,525.

Kimura, Shiro; Kobayashi, Teruo; and Ishige, Sadao, 3,669,710.

Kimura, Shiro; Kobayashi, Teruo; Ishige, Sadao; and Kiritani, Masataka, 3,669,711.

Kimura, Shiro; Kobayashi, Teruo; Ishige, Sadao; and Kiritani, Masataka, 3,669,712.

Kimura, Shiro; Kobayashi, Teruo; and Ishige, Sadao, 3,681,392.

Kimura, Shiro; Sadao, Ishige; and Kobayashi, Teruo, 3,697,540.

Kimura, Tsutomu, 3,639,058.

Kitajima, Masao; Tsuneoka, Yoozi; and Kondo, Asaji, 3,703,576.

Kondo, Asaji; Fujisaki, Hiroshi; Miyano, Shizuo; and Yazawa, Kenichiro, 3,701,663.

Kumai, Akira; and Ogawa, Yasuhisa, 3,655,412.

Kumai, Akira; and Terashita, Takaaki, 3,695,882.

Kurechi, Taichi, 3,700,316.

Makino, Katsuo; and Sawato, Iwao, 3,679,405.

Makino, Katsuo; Yamada, Yoshihiko; and Onozaki, Jun, 3,704,121.

Makino, Katsuo; and Sawato, Iwao, 3,704,123.

Matsukawa, Hiroharu, 3,660,304.

Matsumoto, Seiji, 3,632,202.

Matsumoto, Seiji, 3,656,947.

Mimura, Norihisa; Chikamasa, Hiroshi; Aso, Kotaro; and Sato, Takashi, 3,648,984.

Miyano, Shizuo; Kido, Keishiro; Kondo, Asaji; and Mizuki, Eiichi, 3,706,593.

Mizuki, Eiichi; Oishi, Yasushi; and Sawahara, Masao, 3,676,137.

Nadazawa, Yoshiyuki; Nakamura, Yasuharu; Takei, Haruo; Sato, Akira; and Ikeda, Tadashi, 3,677,765.

Nagae, Tadashi; Oishi, Yasushi; and Hayashi, Jun, 3,640,716.

Nagae, Tadashi; Oishi, Yasushi; and Hayashi, Jun, 3,706,556.

Nakazawa, Giyoshiyuki; Nakamura, Yasuharu; Takei, Haruo; Sato, Akira; and Ikeda, Tadashi, 3,705,809.

Nakazawa, Yoshiyuki; Nakamura, Yasuharu; Haruo, Takei; Sato, Akira; and Ikeda, Tadashi, 3,681,080.

Nakazawa, Yoshiyuki; Sueyoshi, Tohru; Sato, Akira; and Nakamura, Yasuharu, 3,706,570.

Nishio, Daijiro, 3,637,683.

Nishio, Fumihiko; Tsuji, Nobuo; Ikeda, Teppei; and Kawaguchi, Hideo, 3,645,740.

Ogura, Shuichi; and Ueda, Katsuhisa, 3,653,740.

Ohe, Keitaro; Nishio, Daijiro; and Sadamatsu, Shigeru, 3,647,773.

Ohi, Reiichi; Kondo, Tokiharu; Sugiyama, Mitsunori; and Syoji, Ishiguro, 3,635,717.

Ohi, Reiichi; Kondo, Tokiharu; Shirasu, Kazuo; and Ono, Yoshiaki, 3,707,375.

Ohkubo, Kinji; Masuda, Takao; and Noguchi, Junpei, 3,645,739.

Ohkubo, Kinji; and Hayashi, Katsumi, 3,663,227.

Ohkubo, Kinji; Noguchi, Junpei; and Ohmura, Kunioki, 3,672,901.

Ohkubo Kinji; Hayashi, Katsumi; and Sano, Kazuya, 3,676,124.

Ohkubo, Kinji; Noguchi, Junpei; and Masuda, Takao, 3,699,114.

Oishi, Yasushi; Yoshida, Yoshinobu; and Sano, Kazuya, 3,642,485.

Ono, Hisatake; Watarai, Syu; and Katsuyama, Harumi, 3,647,428.

Ono, Hisatake; and Osada, Chiaki, 3,692,800.

Ono, Hisatake; Osada, Chiaki; Watarai, Syu; and Katsuyama, Harumi, 3,697,266.

Ono, Hisatake; and Osada, Chiaki, 3,703,398.

Ono, Hisatake; Watarai, Syu; and Osada, Chiaki, 3,707,369.

Sakaguchi, Yoshikata; Sakai, Masakado; Ohki, Masanaga; Nakamura, Yasuharu; Tsubota, Motohiko; and Sato, Akira, 3,694,217.

Sano, Kazuya; Yokota, Yukio; Oishi, Yasushi; and Nakazyoo, Kiyoshi, 3,649,276.

Sato, Akira; Ueda, Hirozo; and Ono, Yoshiaki, 3,672,897.

Sato, Akira; Misu, Hiroshi; Shiba, Keisuke; and Hinata, Masanao, 3,635,721.

Sato, Akira; Sonoda, Minoru; Shiba, Keisuke; Hinata, Masanao; and Nozoe, Tetsuo, 3,687,674.

Sato, Masamichi; and Takahashi, Isoji, 3,672,330.

Sato, Masamichi; Fukushima, Osamu; Miyazuka, Hajime; Takimoto, Masaaki; Matsumoto, Seiji; Tamai, Yasuo; and Honjo, Satoru, 3,685,907.

Sato, Masamichi; Matsumoto, Seiji; Honjo, Satoru; and Hayakawa, Yoshizide, 3,689,768.

Seto, Yoshihiro, 3,660,153.

Shiba, Keisuke; and Sato, Akira, 3,632,349.

Shiba, Keisuke; Hinata, Masanao; Sato, Akira; and Misu, Hiroshi, 3,649,288.

Shiba, Keisuke; Hinata, Masanao; Tsuji, Nobuo; Miyazaki, Takashi; and Sato, Akira, 3,650,762.

Shiba, Keisuke; Ohi, Reiichi; Sugiyama, Masatoshi; Ohhashi, Azusa; and Tsubota, Motoniko, 3,658,547.

Shiba, Keisuke; Sato, Akira; and Ideka, Tadashi, 3,666,480.

Shiba, Keisuke; Akira, Sato; and Tsubota, Motohiko, 3,667,960.

Shiba, Keisuke; Ohi, Reiichi; and Shishido, Tadao, 3,669,672.

Shiba, Keisuke; Tsubota, Motohiko; Sato, Akira; Ikeda, Tadashi; and Ogawa, Akira, 3,679,428.

Shiba, Keisuke; Hinata, Masanao; Yoshida, Makoto; Imai, Shinichi; Sato, Akira; and Watanabe, Shigaru, 3,682,640.

Shiba, Keisuke; Sueyoshi, Tohru; Akira, Sato; Kubodera, Seiiti; and Tsubota, Motohiko, 3,706,566.

Shibaoka, Haruo; and Tsuchida, Shunichiro, 3,649,277.

Sonoda, Minoru; Yamamoto, Nobuo; and Mikawa, Akikazu, 3,650,759.

Suzuki, Yoshiaki; and Tsuboi, Masayoshi, 3,632,617.

Tajima, Mataichi, 3,665,186.

Takahama, Sho, 3,649,110.

Takenaka, Haruo; Hiratsuka, Nobuo; and Okiyama, Toshiaki, 3,654,187.

Takenaka, Haruo; Okuyama, Hiroshi; Hibino, Noburo; and Ohta, Eiichi, 3,667,283.

Takenaka, Haruo; Okiyama, Toshiaki; and Hiratsuka, Nobuo, 3,697,450.

Takimoto, Hisashi, 3,654,035.

Tamai, Tasuo, 3,654,865.

Tamai, Yasuo, 3,634,333.

Tamai, Yasuo; Matsumoto, Seiji; and Honjo, Satoru, 3,655,419.

Tamai, Yasuo; Takimoto, Masaaki; and Miyatuka, Hajime, 3,661,572.

Tamai, Yasuo; and Honjo, Satoru, 3,672,988.

Tamai, Yasuo; and Miyazuka, Hajime, 3,674,476.

Tamai, Yasuo; Osawa, Sadao; and Taguchi, Seiichi, 3,677,766.

Tamai, Yasuo; and Honjo, Satoru, 3,682,825.

Tamai, Yasuo; and Honjo, Satoru, 3,692,523.

Tamai, Yasuo; Sato, Masamichi; Matsumoto, Seiji; and Honjo, Satoru, 3,703,400.

Tanaka, Hiroshisa; Wada, Mitiaki; and Kaneko, Keiji, 3,706,179.

Tatsuta, Sumitaka; Ueno, Wataru; Tajima, Tatsuya; and Akao, Mutsuo, 3,697,305.

Tatsuta, Sumitaka; and Ueno, Wataru, 3,704,154.

Tsuboi, Masayoshi; Komura, Tsuneo; Tezuka, Sigeru; and Kondo, Asaji, 3,649,810.

Tsuji, Nobuo; Tajima, Tatsuya; Miyazaki, Takashi; Tsuchiya, Yoshinori; and Nishio, Fumihiko, 3,666,470.

Tsujimura, Kimiaki; and Moriya, Tosio, 3,672,248.

Ujihara, Motohiro; and Fujii, Itsuo, 3,707,378.

- Ushimaru, Yoshuke; Nakajima, Yosuke; Sugiyama, Mitsunori; Nishio, Fumihiko; and Kobayashi, Shigeru, 3,656,955.
 Utsugi, Mikio; and Ohta, Takahiro, 3,669,789.
 Watanabe, Shigeru; Yasuda, Yukio; and Sano, Kazuya, 3,667,953.
 Yabuta, Yukio, 3,662,635.
 Yabuta, Yukio, 3,675,757.
 Yabuta, Yukio, 3,688,619.
 Yamamoto, Nobuo; Nishio, Fumihiko; Yoshida, Masaji; and Kawano, Hideo, 3,656,956.
 Yamamoto, Nobuo; and Kawaguchi, Hideo, 3,704,167.
 Yano, Akira; Kimura, Tsutomu; and Utsugi, Mikio, 3,649,118.
 Yasuda, Yukio; Tsuji, Nobuo; and Miyazako, Takushi, 3,655,389.
 Yoneyama, Masakazu; Shimamura, Isao; Iwano, Haruhiko; and Ohi, Reichi, 3,671,247.
 Yonezawa, Teruhiko; Kobayashi, Kesanao; and Kobayashi, Teruo, 3,669,658.
 Yoshida, Makoto; Tsuda, Momotoshi; Oishi, Yasushi; and Nakazyo, Kiyoshi, 3,685,995.
 Yoshida, Makoto; and Imai, Shinichi, 3,687,673.
 Fuji Photo Film, Ltd.: See—
 Shiba, Keisuke; Hinata, Masanao; Tsuji, Nobuo; and Sato, Akira, 3,674,499.
 Fuji Shashin Film Kabushiki Kaisha: See—
 Ishiwata, Mamoru; and Akio, Huruya, 3,640,752.
 Ohashi, Azusa; and Ishiwata, Mamoru, 3,687,703.
 Ohkubo, Kinji; Noguchi, Junpei; and Masuda, Takao, 3,635,719.
 Okano, Takeshi, 3,694,045.
 Tamai, Yasuo; and Honjo, Satoru, 3,668,126.
 Fuji Shashin Film Kabushiki Kaisha; now Fuji Photo Film Co., Ltd.: See—
 Amano, Hiroyuki; Nishio, Fumihiko; Tsuji, Nobuo; and Shirasu, Kazuo, 3,676,139.
 Fuji Shashin Koki Kabushiki Kaisha: See—
 Doi, Yoshikazu; Kishikawa, Toshiro; and Nomura, Hiroshi, 3,681,521.
 Doi, Yoshikazu; Kishikawa, Toshiro; and Sunaga, Yasumasa, 3,706,484.
 Idei, Gijun; and Numata, Saburo, 3,670,184.
 Mori, Minoru; and Kishikawa, Toshiro, 3,696,202.
 Numata, Saburo, 3,643,561.
 Ueno, Yasuo, 3,637,124.
 Fujie, Hiroshi: See—
 Ozawa, Shuji; and Fujie, Hiroshi, 3,640,970.
 Fujie, Kuniyoshi: See—
 Yamasaki, Masaaki; Fujie, Kuniyoshi; and Fukui, Haruo, 3,699,224.
 Fujihara, Katsuji, to Kansai Hoon Kogyo Kabushiki Kaisha. Flexible panel-type heating unit. 3,657,516, 4-18-72, Cl. 219-345.
 Fujii, Akihiro, to Tokyo Shibaura Electric Co., Ltd. Method of manufacturing a semiconductor photosensitive device. 3,671,338, 6-20-72, Cl. 148-175.000.
 Fujii, Hirohiko: See—
 Yamachi, Yukio; Fujii, Hirohiko; Yamato-Machi, Kita; Kosuge, Hiroshi; and Morita, Koichi, 3,684,949.
 Fujii, Itsuo: See—
 Ujihara, Motohiro; and Fujii, Itsuo, 3,707,378.
 Fujii, Katsuhiko: See—
 Sakata, Mamoru; Komori, Hiroyuki; and Fujii, Katsuhiko, 3,649,959.
 Fujii, Keisuke: See—
 Takata, Toyoharu; Fujii, Keisuke; Yano, Nobumitsu; Fukushima, Masao; Nagayoshi, Fumio; and Mizuno, Aiko, 3,692,768.
 Fujii, Kenzo; Kanai, Kazumichi; Inoue, Shigeru; Matsuo, Kiyoshi; and Asakura, Masami, to Mitsui Toatsu Chemicals, Incorporated. Process for the production of compressed shapes of urea. 3,683,057, 8-8-72, Cl. 264-140.000.
 Fujii, Kinjiro; Motoe, Akihiro; and Kasugai, Homuru, to Industrial Science & Technology, Agency of. Process of enrobing powder particles. 3,684,558, 8-15-72, Cl. 117-100.00b.
 Fujii, Kinya: See—
 Komatsu, Youji; Tamura, Takeshi; Fujii, Kinya; and Hatsutori, Masafumi, 3,665,034.
 Fujii, Kiyoshi: See—
 Funakoshi, Yoshiro; Kajiura, Takehiko; Fujii, Kiyoshi; Kanamaru, Toshihiko; Nishitani, Masaki; and Komeda, Hiromu, 3,671,296.
 Fujii, Koichi; Sakai, Tomoo; and Kikuchi, Ichiro, to Nippon Soda Kabushiki Kaisha. Process for production of spheroidal granules or lumps of anhydrous aluminum chloride. 3,694,170, 9-26-72, Cl. 23-294.000.
 Fujii, Masahiro: See—
 Inoi, Takeshi; Sueyoshi, Koji; Fujii, Masahiro; Shoji, Kenjiro; Shudo, Akio; Yoshizaki, Takayoshi; and Yutaka, Matsuo, 3,703,518.
 Fujii, Masaru; Sagara, Kazuo; and Isomura, Shuichi, to Mitsubishi Jukogyo Kabushiki Kaisha. Speed controller for prime mover. 3,665,276, 5-23-72, Cl. 318-318.

- Fujii, Minoru, to Nippondenso Kabushiki Kaisha. Ignition timing pulse generator for a contactless ignition system of internal combustion engines. 3,641,377, 2-8-72, Cl. 310-153.
 Fujii, Nobuhiro: See—
 Nomura, Osamu; Fujii, Nobuhiro; Aoiike, Nanjo; and Kamiya, Fumio, 3,649,869.
 Fujii, Noriyoshi: See—
 Machida, Takehiko; Yoshida, Yukio; Fujii, Noriyoshi; and Yokoyama, Kenjiro, 3,636,431.
 Fujii, Robert L., to Lear Siegler, Inc. Liquid cooling arrangement for dynamoelectric machine. 3,648,085, 3-7-72, Cl. 310-54.
 Fujii, Saburo; Saji, Yasuo; Yamada, Kozo; Makita, Zenji; and Ikegami, Shigeru, to Toho Beslon Co., Ltd. Continuous wet spinning method of producing useful filamentary materials of an acrylonitrile copolymer. 3,689,621, 9-5-72, Cl. 264-182.000.
 Fujii, Setsuro: See—
 Yamamura, Yuichi; Fujii, Setsuro; Okano, Atsuji; Hirata, Miyoshi; Abiko, Yasushi; Inaoka, Masato; Noroi, Reimei; Iwamoto, Mashiro; Funabashi, Shoichi; and Kaito, Takeo, 3,699,149.
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 Fujii, Shigeru; and Saito, Iso, to Toray Industries, Inc. Thermally-stable polyimide compositions. 3,639,335, 2-1-72, Cl. 260-45.75.
 Fujii, Shigeru; Miwa, Takashi; Noji, Kazushige; Okagawa, Chikatsu; and Toki, Masamichi, to Toray Industries, Inc. Method for manufacturing synthetic multi-core elements. 3,645,819, 2-29-72, Cl. 156-148.
 Fujii, Shoichiro: See—
 Nakamachi, Hideo; Kamiya, Kazuhide; Nishikawa, Masao; and Fujii, Shoichiro, 3,687,932.
 Fujii, Shozo, to Kabushiki Kaisha Fujii Kogyo. Muffler. 3,642,095, 2-15-72, Cl. 181-57.
 Fujii, Tadahiko, to Nihon Hikaku Kabushiki Kaisha. Process for dissolving insoluble collagen employing a mixture of an alkali metal hydroxide, an alkali metal sulfate, and an amine. 3,637,642, 1-25-72, Cl. 260-118.
 Fujii, Tadashi: See—
 Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; and Nishiie, Kazuyoshi, 3,658,792.
 Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; Nishiie, Kazuyoshi; Satoh, Sakae; Koide, Tadashi; and Hotta, Yasue, 3,668,200.
 Fujii, Takashi: See—
 Ochiai, Chiaki; and Fujii, Takashi, 3,662,552.
 Fujii, Tatsuo: See—
 Tomoitsu, Toshio; and Fujii, Tatsuo, 3,648,579.
 Tomomitsu, Toshio; and Fujii, Tatsuo, 3,671,769.
 Tsukamoto, Masaaki; Fujii, Tatsuo; and Ono, Shigeo, 3,675,179.
 Fujii, Tatsuo; and Watano, Yutaka, to Nippon Kogaku K.K. Rotary variable resistor with oblique taps and brush spanning plural taps. 3,639,881, 2-1-72, Cl. 338-190.
 Fujii, Tatsuo, to Nippon Kogaku K.K. Exposure photometry system for photographic camera. 3,646,861, 3-7-72, Cl. 95-10.
 Fujii, Tatsuo; and Watano, Yutaka, to Nippon Kogaku K.K. Miniature variable resistor with guide means for sliding contacts. 3,676,823, 7-11-72, Cl. 338-139.000.
 Fujii, Tatsuo; and Tomomitsu, Toshio, to Nippon Kogaku K.K. Structure of exposure measuring device using two galvanometers. 3,700,337, 10-24-72, Cl. 356-227.000.
 Fujii, Toru, to Olympus Optical Co., Ltd. Wide angle photographic objective of the retrofocus type. 3,682,529, 8-8-72, Cl. 350-215.000.
 Fujii, Tsuneji, to Toyota Koki Kabushiki Kaisha. Apparatus for dressing side surfaces of grinding wheels. 3,678,916, 7-25-72, Cl. 125-11.000.
 Fujii, Wesley M.; and Rehklau, George D., to Electro Sound, Inc. Apparatus for holding two abutting tape ends in place and applying a segment of splicing material across their junction. 3,634,172, 1-11-72, Cl. 156-506.
 Fujii, Yoshifusa, to Minolta Camera Kabushiki Kaisha. Automatic diaphragm aperture adjusting device for flash photography in camera with interchangeable lens. 3,668,994, 6-13-72, Cl. 95-64.00a.
 Fujii, Yoshikazu: See—
 Nakaguchi, Kohei; Nishikida, Tomozumi; Kawasumi, Shohachi; Maemoto, Kenichi; Sano, Takezo; Fujii, Yoshikazu; Harada, Koichi; and Ueda, Keijyu, 3,669,945.
 Fujijura Kasei Company, Ltd.: See—
 Fukuda, Tadanori; Takahashi, Masao; Ogihara, Shoji; and Sekiya, Masato, 3,706,589.
 Fujikake, Kenji; Mutoh, Norio; and Yagi, Yuji, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Device for detecting velocity of gas thermoelectrically. 3,691,833, 9-19-72, Cl. 73-204.000.
 Fujikawa, Kanichi: See—

- Nishiyama, Ryuzo; Fujikawa, Kanichi; Yokomichi, Isao; and Kimura, Fumio, 3,637,720.
 Fujikawa, Kyoichiro; and Takamiya, Saburo, to Mitsubishi Denki Kabushiki Kaisha. Magnetically operated semiconductor device. 3,668,439, 6-6-72, Cl. 307-309.000.
 Fujikawa, Sukeyoshi; and Uemura, Yasuhiro, to Teac Corporation. Magnetic recording and reproducing apparatus. 3,664,672, 5-23-72, Cl. 274-4.00d.
 Fujikeiki Kabushiki Kaisha: See—
 Hada, Yukihiko, 3,667,292.
 Fujiki, Konosuke: See—
 Okuno, Kenzo; Itagaki, Takaharu; Isogai, Yoshimasa; Yoshida, Kazuo; Fujiki, Konosuke; and Odagawa, Katumi, 3,666,809.
 Fujiki, Yu; and Tsubaki, Hiroshi, to Ricoh Watch Co., Ltd. Device for automatically actuating a gas discharge valve or the like. 3,650,328, 3-21-72, Cl. 169-19.
 Fujimasu Industries International: See—
 Fujimasu, Jiro, 3,635,742.
 Fujimasu, Jiro, 3,642,509.
 Fujimasu, Jiro, to Fujimasu Industries International. Calcining alkaline earth metal chlorides with cellulose and admixing with Portland cement. 3,635,742, 1-18-72, Cl. 106-287.
 Fujimasu, Jiro, to Fujimasu Industries International. Hydraulic composition. 3,642,509, 2-15-72, Cl. 106-287.
 Fujimori, Akihiro: See—
 Washimi, Koichi; Kanbayashi, Masaaki; Kanai, Toshio; and Fujimori, Akihiro, 3,674,679.
 Fujimori, Keizo: See—
 Nakanuma, Sho; Haneta, Yuichi; Fujimori, Keizo; and Wada, Toshio, 3,637,434.
 Fujimori, Motoyuki, to Kabushiki Kaisha Suwa Seikosha. Controlling device for an escape wheel. 3,695,033, 10-3-72, Cl. 58-116.00f.
 Fujimori, Noboru: See—
 Sakazume, Kaichiro; Sakamoto, Eiichi; Itoh, Shigemasa; Fujimori, Noboru; and Baba, Shigeji, 3,703,377.
 Fujimori, Yoshiaki: See—
 Kasai, Masami; and Fujimori, Yoshiaki, 3,690,062.
 Fujimori, Yoshiaki, to Kabushiki Kaisha Suwa Seikosha. Construction of rotating bezel section for watch cases. 3,662,537, 5-16-72, Cl. 58-91.000.
 Fujimori, Yoshiaki, to Kabushiki Kaisha Suwa Seikosha. Synthetic resin watchcase with embedded metal reinforcement. 3,672,158, 6-27-72, Cl. 58-90.00r.
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 Nakamura, Tadahisa; Fujimoto, Hirozi; Yamamoto, Makoto; and Shintomi, Yukito, 3,673,363.
 Fujimoto, Kazumitsu: See—
 Nakano, Sohta; Fujimoto, Kazumitsu; Otomo, Kazuhiro; Yokota, Toshiyuki; and Shindo, Hiroshi, 3,686,002.
 Fujimoto, Keimei: See—
 Itaya, Nobushige; Kamoshita, Katsuzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Nakai, Shinji; Kameda, Nobuyuki; Fujimoto, Keimei; and Okuno, Yositosi, 3,666,789.
 Itaya, Nobushige; Kamoshita, Katsuzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Nakai, Shinji; Kameda, Nobuyuki; Fujimoto, Keimei; and Okuno, Yositosi, 3,669,989.
 Itaya, Nobushige; Mizutani, Toshio; Kitamura, Shigeyoshi; Okuno, Yositosi; and Fujimoto, Keimei, 3,671,548.
 Kitamura, Shigeyoshi; Hirai, Hajime; Okuno, Yositosi; and Fujimoto, Keimei, 3,655,654.
 Kitamura, Shigeyoshi; Hirai, Hajime; Okuno, Yositosi; and Fujimoto, Keimei, 3,702,864.
 Matsui, Masanao; Kitahara, Takeshi; Fujimoto, Keimei; and Okuno, Yositosi, 3,636,059.
 Mizutani, Toshio; Itaya, Nobushige; Kitamura, Shigeyoshi; Fujimoto, Keimei; and Okuno, Yositosi, 3,702,851.
 Tsuchiya, Hiroshi; Kunio, Nishinomiya-Shi; Kimura, Akio; Kawano, Suminori; Fujimoto, Keimei; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Tanaka, Katsutoshi; Oishi, Tadashi; and Takeda, Hisami, 3,670,057.
 Fujimoto, Kenichi: See—
 Inoue, Hiroharu; Fujimoto, Kenichi; and Suenaga, Yasushi, 3,636,179.
 Fujimoto, Kentaro: See—
 Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; and Nishiie, Kazuyoshi, 3,658,792.
 Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; Nishiie, Kazuyoshi; Satoh, Sakae; Koide, Tadashi; and Hotta, Yasue, 3,668,200.
 Fujimoto, Kyohei: See—
 Yamashita, Emiko; and Fujimoto, Kyohei, 3,696,234.
 Fujimoto, Sakae, to Kabushiki Kaisha Ricoh. Self-cocking device for a camera normally loaded non-perforated film. 3,641,897, 2-15-72, Cl. 95-31.
 Fujimoto, Sakae, to Kabushiki Kaisha Ricoh. Behind the lens leaf shutter mechanism for use with a single lens reflex camera. 3,641,901, 2-15-72, Cl. 95-42.
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 Fujimoto, Takeshi: See—
 Oikawa, Takashi; and Fujimoto, Takeshi, 3,689,417.
 Fujimoto, Ted Y., to North American Rockwell Corporation. Multiphase field effect transistor driver multiplexing circuit. 3,641,366, 2-8-72, Cl. 307-251.
 Fujimoto, Ted Y., to North American Rockwell Corporation. Multiphase field effect transistor DC driver. 3,646,369, 2-29-72, Cl. 307-270.
 Fujimoto, Tokio: See—
 Kurauchi, Noritaka; Fujimoto, Tokio; Yoshida, Kenichi; Ui, Masamitsu; Nagata, Zenji; and Kouno, Hirokazu, 3,636,436.
 Fujimoto, Yasuo; Tatsukawa, Keizo; and Kouno, Hirokazu, 3,636,436.
 Fujimoto, Yasuo; Tatsukawa, Keizo; and Doiuchi, Toru, to Kyowa Hakko Kogyo Co., Ltd. Method for polymerizing α -amino acid n-carboxyanhydrides using alkalimetal salts of 2-pyrrolidone. 3,635,909, 1-18-72, Cl. 260-78.
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 Fujimoto, Yasuo, to Kyowa Hakko Kogyo Kabushiki Kaisha. Schiff bases of pyridoxal. 3,642,782, 2-15-72, Cl. 260-240.
 Fujimoto, Yasuo; and Teranishi, Masayuki, to Kyowa Hakko Kogyo Co., Ltd. Process for the production of N-carboxy anhydrides of amino acids and derivatives thereof. 3,644,412, 2-22-72, Cl. 260-307.
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 Fujimoto, Yoshiaki: See—
 Ogawa, Juro; and Fujimoto, Yoshiaki, 3,679,976.
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 Fujimoto, Yukiya; and Kurashina, Isao, to Nippon Sheet Glass Co., Ltd. Process for manufacture of flat glass on a molten metal bath. 3,645,709, 2-29-72, Cl. 65-27.

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Kashiwa, Norio; Tokuzumi, Tadaichi; and Fujimura, Hiroshi, 3,642,746.
- Fujimura, Isao: See—
Eshima, Shozo; Fujimura, Isao; and Nakagawa, Hidenori, 3,657,062.
- Fujimura, Kyoichi: See—
Ando, Satoshi; Tanaka, Yusaku; Kojima, Minoru; and Fujimura, Kyoichi, 3,669,917.
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Shigematsu, Hiroji; Yamaguchi, Tomio; Fukue, Hisanobu; Ogawa, Hiroshi; Hashimoto, Takashi; Murakoshi, Kenichi; Suguri, Susumu; and Fujimura, Tsutomu, 3,699,436.
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- Fujino, Nobuhiro, to Hitachi, Ltd. Rolling mill. 3,638,467, 2-1-72, Cl. 72-237.
- Fujino, Tomizo: See—
Seino, Shuichi; Fujino, Tomizo; and Tonegawa, Kakuji, 3,637,672.
- Fujino, Yoshio: See—
Doi, Kikuo; Takahashi, Masao; Nanamatsu, Satoshi; and Fujino, Yoshio, 3,644,761.
- Fujio, Masaaki. Method of packaging packs or articles with a heat-shrinking material. 3,641,732, 2-15-72, Cl. 53-14.
- Fujio, Masaaki. Wrapper with tear tabs of heat-shrinking synthetic resin film. 3,679,048, 7-25-72, Cl. 206-46.00r.
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Onishi, Akira; Anzai, Shiro; Irako, Koichi; Fujio, Ryota; Hayakawa, Yoshihiro; Kojima, Minoru; and Kawamoto, Hiroshi, 3,644,314.
- Onishi, Akira; Fujio, Ryota; and Kojima, Minoru, 3,665,062.
- Fujio, Tadami: See—
Otani, Yasuhiko; Ikegami, Yoshio; and Fujio, Tadami, 3,684,202.
- Fujio, Tatsuro: See—
Tanaka, Masao; Oka, Tetuo; Fujio, Tatsuro; and Mochizuki, Kazuo, 3,669,842.
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Shimaya, Kazunori; Kaneko, Katsuzo; Fujio, Yoshinori; and Sato, Yoshihiro, 3,701,893.
- Fujioka, Akira: See—
Ichikawa, Kiyoshi; and Fujioka, Akira, 3,656,133.
- Fujioka, George S.: See—
Levine, Charles A.; and Fujioka, George S., 3,663,294.
- Fujioka, George S., to Dow Chemical Company, The. Process for the purification of alkali metal sulfides. 3,635,666, 1-18-72, Cl. 23-134.
- Fujioka, Kotaro: See—
Ito, Shoji; Fujioka, Kotaro; Okamoto, Mitsuhiro; and Kikuchi, Tetsuya, 3,690,575.
- Fujioka, Mikio: See—
Enomoto, Satoru; Wada, Hisayuki; Fujioka, Mikio; and Koguro, Masao, 3,707,387.
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- Fujisaki, Hiroshi: See—
Kondo, Asaji; Fujisaki, Hiroshi; Miyano, Shizuo; and Yazawa, Kenichiro, 3,701,663.
- Fujisaki, Hiroya: See—
Inose, Hiroshi; Fujisaki, Hiroya; and Hamada, Takashi, 3,660,812.
- Iwasaki, Masahiro; Goto, Nobuyuki; Fujisaki, Hiroya; and Niwa, Kunihiko, 3,667,047.
- Iwasaki, Masahiro; Goto, Nobuyuki; Fujisaki, Hiroya; and Niwa, Kunihiko, 3,678,390.
- Fujisaki, Yoshio; Suzuki, Akira; and Ishibashi, Eiichi, to Hitachi, Ltd. Vertically disposed isolated phase bus. 3,639,673, 2-1-72, Cl. 174-16.
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- Fujisawa, Kiyoshi: See—
Yasui, Koichi; Yamamoto, Kazuo; Itami, Kazuo; Fujisawa, Kiyoshi; and Sakai, Toshio, 3,671,279.
- Fujisawa, Masakatsu, to American Safety Equipment Corporation. Adjustable temple for eyeglasses. 3,705,761, 12-12-72, Cl. 351-118.000.
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- Fujisawa, Mitsumaro: See—
Sato, Wasuke; Hatakeyama, Shigeyuki; Koide, Masashi; Yamamoto, Sadao; and Fujisawa, Mitsumaro, 3,700,523.
- Fujisawa Pharmaceutical Co., Ltd.: See—
Arima, Kei; Tamura, Gakuzo; Sakai, Heiichi; and Kohsaka, Masanobu, 3,692,777.
- Arima, Kei; Tamura, Gakuzo; Imanaka, Hiroshi; Kousaka, Masanobu; and Fukuda, Akio, 3,699,121.
- Kurita, Masaru; Saito, Yoshihisa; and Teraji, Tsutomu, 3,681,328.
- Sato, Koichi; Tamugi, Norifusa; and Abe, Katsutoshi, 3,637,568.
- Umio, Suminori, 3,661,921.
- Umio, Suminori; and Maeno, Shizuo, 3,699,125.
- Fujisawa, Tamotsu; Yamamoto, Mizuo; and Tsuchihashi, Genichi, to Sagami Chemical Research Center. Process for production of sulfur-containing phenols. 3,678,115, 7-18-72, Cl. 260-609.00f.
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- Fujisawa, Yoshiro: See—
Tsuchida, Takashi; Hayase, Yoshiaki; and Fujisawa, Yoshiro, 3,674,561.
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Fukuda, Masao; Goto, Hachiro; Norota, Susumu; and Fujisawa, Yukimasa, 3,679,533.
- Fujishima, Satoru; and Honma, Hideo, to Murata Manufacturing Co., Ltd. FM Detecting circuit having a piezoelectric filter. 3,648,184, 3-7-72, Cl. 329-198.
- Fujihiro, Shigeru: See—
Sugano, Seiroku; Arai, Tomio; Hayami, Seinoshin; Watanabe, Sadao; Fujihiro, Shigeru; and Ono, Takeo, 3,689,372.
- Fujisoku Electric Co., Ltd.: See—
Fujimoto, Hiroji; and Nakakura, Kenji, 3,639,714.
- Nakamura, Tadahisa; Fujimoto, Hiroji; Yamamoto, Makoto; and Shintomi, Yukito, 3,673,363.
- Nishikawa, Kikuyoshi; Nakamura, Tadahisa; and Nakakura, Kenji, 3,694,598.
- Yamanoto, Makoto; and Shintomi, Yukito, 3,688,062.
- Fujita, Haruo: See—
Hiyama, Yoshio; Fujita, Haruo; Tsunetomi, Eiichi; Okada, Kan; and Kude, Satoshi, 3,681,564.
- Fujita, Hideo; Ishitobi, Masami; Suga, Hiroyoshi; Ishiwari, Keishiro; Yotsui, Yoshikazu; Yamashita, Tadao; Edamitsu, Masayuki; and Moriaki, Shokichi, to Dainichi Nippon Cables Ltd. Manufacture of electrically insulating paper. 3,701,720, 10-31-72, Cl. 204132.000.
- Fujita, Hiroshi; and Kuruma, Akinori, to Daikin Kogyo Co., Ltd. Lubricant valve assembly. 3,653,466, 4-4-72, Cl. 184-7.
- Fujita, Hisaya: See—
Yamanaka, Takashi; Miyauchi, Rinichi; Fujita, Hisaya; and Kaieda, Nobuo, 3,704,415.
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- Fujita, Kenji: See—
Fukanuma, Hirotaka; Fujita, Kenji; and Kashiura, Kenji, 3,658,663.
- Fujita, Kinji, to Kabushiki Kaisha Suwa Seikosha. Electronic timepiece. 3,678,680, 7-25-72, Cl. 58-23.00r.
- Fujita Kogyo Kabushiki Kaisha: See—
Yoneda, Shoji; Agari, Taiichiro; Goto, Tetsuo; and Taniguchi, Kyuhei, 3,680,515.
- Fujita, Masakazu: See—
Hori, Kikuo; and Fujita, Masakazu, 3,637,160.
- Takizawa, Haruki; and Fujita, Masakazu, 3,685,765.
- Fujita, Masuo: See—
Ohga, Shizuo; Yasutomi, Hideatsu; and Fujita, Masuo, 3,705,252.
- Fujita, Minoru: See—
Miyahara, Akimitsu; Fujita, Minoru; Yamamoto, Isao; and Katamura, Tamako, 3,661,775.
- Fujita, Mitsuo: See—
Mizuguchi, Toru; Fujita, Mitsuo; and Suzuki, Yoshiaki, 3,665,588.
- Fujita, Mitsuo, to Victor Company of Japan, Limited. Control system for a color synchronizing signal oscillator in a magnetic recording and reproducing apparatus. 3,659,040, 4-25-72, Cl. 178-5.4.
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- Fujita, Norimasa: See—
Ishida, Shinichi; Ohshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; and Kurita, Kunio, 3,651,015.
- Ishida, Shinichi; Ohshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; Kurita, Kunio; Ohki, Hayashi; Sato, Kunio; Nagamatsu, Kazuo; and Tokushige, Akira, 3,654,228.
- Ishida, Shinichi; Fujita, Norimasa; Oshima, Yoshisada; Tanaka, Teturo; and Hirata, Mitito, 3,657,189.
- Fujita, Saburo; Ban, Hiroshi; and Takikawa, Yukio, to Aisin Seiki Kabushiki Kaisha. Clutch releasing device. 3,702,651, 11-14-72, Cl. 192-70.250.
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Akazawa, Hakuichi; Washio, Shigeaki; Kaji, Keiji; and Fujita, Shisao, 3,645,677.
- Fujita, Tadamasu: See—
Kosaka, Masahiro; and Fujita, Tadamasu, 3,641,507.
- Fujita, Tadao; Wake, Makoto; and Konishi, Kunihiko, to Kubota Tekko Kabushiki Kaisha. Organic-inorganic silicate binder for refractor processes. 3,682,668, 8-8-72, Cl. 106-74.000.
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- Fujita, Teizo. Relay socket. 3,702,457, 11-7-72, Cl. 339-198.00g.
- Fujita, Yoshihiro: See—
Sakomura, Toshio; Yoshida, Toshiro; Fujita, Yoshihiro; and Shinbara, Hideo, 3,696,173.
- Fujitsu Limited: See—
Amano, Kitsutaro; Ota, Chuichi; Hashimoto, Masao; Kanzaki, Hisao; Sakamoto, Yasuhiko; and Yasoshima, Nobuyaki, 3,644,680.
- Fudemoto, Isao; Tomimori, Kiyoshi; Nakamura, Eiichi; and Kimura, Yutaka, 3,646,269.
- Fudemoto, Isao; Yoshibayashi, Tsutomu; and Miyamura, Tadao, 3,671,886.
- Fujimura, Noriaki, 3,641,462.
- Fukukawa, Yukio; and Shinoda, Masaichi, 3,663,874.
- Henmi, Zenzo; Sakaki, Tatsui; Matsui, Yuji; Maegawa, Harumi; Sato, Yoshihiro; Gotoh, Tsuneyasu; and Komatsu, Masahiro, 3,686,042.
- Ikegami, Hideo, 3,706,912.
- Inaba, Seiemon; Yoshitake, Norito; Imazeki, Ryoji; and Kozai, Yoshinori, 3,636,525.
- Inaba, Seiemon; and Kobayashi, Kengo, 3,657,627.
- Inaba, Seiemon; Shimizu, Kanryo; and Hashimoto, Yoshihiro, 3,668,377.

- Inagaki, Takefumi, 3,692,380.
- Ito, Yukio; Yokouchi, Haruo; and Konno, Kenji, 3,651,430.
- Kanda, Kaoru; and Kobayashi, Tadairo, 3,654,618.
- Kanda, Kaoru; and Kobayashi, Tadairo, 3,656,125.
- Kimura, Takashi; Kumagai, Kazuo; and Kanda, Kaoru, 3,665,432.
- Kinoshita, Ryohei; and Ishizawa, Masami, 3,701,064.
- Kiyasu, Zen'iti; Kawashima, Masao; Sasaki, Shunroku; Mineshima, Yukihiko; and Kurita, Shyoichi, 3,699,567.
- Kobayashi, Toshio; and Mineshima, Yukihiko, 3,641,562.
- Maegawa, Harumi; Sato, Yoshihiro; Furuhashi, Yasuo; and Kiumi, Takayuki, 3,641,522.
- Mori, Takashi; and Yoshikawa, Tatsuya, 3,706,077.
- Nagamatsu, Takeo; Yamada, Yusaku; and Yamada, Kazumi, 3,678,498.
- Nakajima, Tohru; Tashiro, Susumu; Tsukatani, Kenmi; and Mori, Koichi, 3,645,180.
- Ninomiya, Shoichi; Sakai, Masaaki; Oka, Sakae; and Kusunoki, Kikunobu, 3,675,224.
- Noyori, Yasuyuki; Uehira, Eiji; and Katayama, Tadao, 3,705,273.
- Oishi, Hiroshi; Aoki, Fumio; Kawano, Shigeru; Muramatsu, Hitoshi; and Saeki, Masahiro, 3,696,383.
- Olso, Mitsuo, 3,663,883.
- Sakai, Masaaki, 3,702,992.
- Sasaki, Hiroshi; Maruyama, Tatsuo; Kanzaki, Hisao; and Sakamoto, Yasuhiko, 3,641,274.
- Sasaki, Hiroshi; Maruyama, Tatsuo; Kanzaki, Hisao; Sakamoto, Yasuhiko; and Yasoshima, Nobuyuki, 3,643,031.
- Sasaki, Shunroku; and Takebayashi, Shizuo, 3,644,673.
- Sato, Tadakazu, 3,665,486.
- Takahashi, Hiroaki; and Hara, Toshito, 3,705,796.
- Usuda, Shogo; Mizusasa, Susumu; and Tateno, Harunobu, 3,701,857.
- Yoshitake, Norito; Imazeki, Ryoji; and Ishida, Hiroshi, 3,705,418.
- Fujiwara, Hideo: See—
Hibi, Susumu; and Fujiwara, Hideo, 3,636,534.
- Nishida, Hideo; Yamaguchi, Kunihiko; Kumasaka, Noriyuki; Sugita, Yutaka; and Fujiwara, Hideo, 3,673,581.
- Fujiwara, Hirotomo; and Arai, Takuya, to Fuji Photo Film Co., Ltd. Reel. 3,648,944, 3-14-72, Cl. 242-74.
- Fujiwara, Katsuji. Float responsive switch unit. 3,632,925, 1-4-72, Cl. 200-84.
- Fujiwara, Katsuji. Steam trap of the disc type. 3,645,444, 2-29-72, Cl. 236-59.
- Fujiwara, Katsuji. Electrically driven valve apparatus. 3,680,831, 8-1-72, Cl. 251-134.000.
- Fujiwara, Mitsuo: See—
Iwama, Masakuni; Fujiwara, Mitsuo; Kojima, Tamotsu; Imamura, Hiroyuki; and Yamamoto, Toshihiko, 3,658,545.
- Iwama, Masakuni; Fujiwara, Mitsuo; Kojima, Tamotsu; Takabe, Koichi; and Yamamoto, Toshihiko, 3,667,956.
- Iwama, Masakuni; Inoue, Isaburo; Fujiwara, Mitsuo; Hanazawa, Teruo; Kojima, Tamotsu; Yamamoto, Toshihiko; and Endo, Takaya, 3,684,514.
- Fujiwara, Nobutsune, to Jujisash Industries, Ltd. Position detector using a switchable magnetic core. 3,662,257, 5-9-72, Cl. 324-34.
- Fujiwara, Ryojo; Ohara, Eiji; and Maeda, Kazuo, to Mitsui Toatsu Chemicals, Incorporated. Method of stabilizing anhydrous sodium dithionite. 3,677,699, 7-18-72, Cl. 23-116.000.
- Fujiwara, Shigeru: See—
Okuhashi, Tomomi; and Fujiwara, Shigeru, 3,666,550.
- Fujiwara, Shigeru; Nagae, Kenji; and Okuhashi, Tomomi, to Teijin Limited. Textile material having a durable antistatic property and the fibers to be used for its purpose. 3,669,736, 6-13-72, Cl. 117-226.
- Fujiwara, Shohei: See—
Kano, Gota; Yokozawa, Masami; Kawasaki, Tatsuo; Fujiwara, Shohei; and Hasegawa, Hiromasa, 3,634,931.
- Fujiwara, Tadashi: See—
Takayanagi, Kenjiro; Matsuyama, Kihachiro; Fujiwara, Tadashi; Mizuno, Hideaki; and Akiyama, Naoki, 3,692,576.
- Fujiwara, Takashi: See—
Hayakawa, Shohei; Kanematsu, Yoshiko; and Fujiwara, Takashi, 3,674,842.
- Fujiwara, Tatsuo; and Kusakabe, Hiromi, to Tokyo Shibaura Electric Co., Ltd. Magnetic eraser with head winding as part of oscillator circuit. 3,666,893, 5-30-72, Cl. 179-100.20d.
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Chikatsu, Tatsusuke; Shimokawa, Shinichi; Yoshida, Yoshinori; Imamura, Masatugu; Nishiwaki, Ituo; Akimoto, Toshio; and Fujiwara, Tatsuji, 3,692,861.
- Fujiwara, Watsuji. Large capacity steam trap. 3,685,731, 8-22-72, Cl. 236-53.000.
- Fujiwara, Yasuo: See—
Horie, Tatsuo; Fujiwara, Yasuo; and Takezono, Tetsuya, 3,634,524.
- Fujiwara, Yoshiyuki, to Tanabe Kakoki Co., Ltd. Power supply equipment for electric smelting furnace of large capacity. 3,676,564, 7-11-72, Cl. 13-12.000.

Fujiwara, Yukio: *See*—
Nitta, Tohei; Shibuya, Yoshikazu; and Fujiwara, Yukio, 3,679,939.

Fujiwara, Yuzo: *See*—
Moritani, Ichiro; and Fujiwara, Yuzo, 3,674,884.

Fujiwhara, Mitsuo: *See*—
Iwama, Masakuni; Kojima, Tamotsu; Fujiwhara, Mitsuo; and Sakamoto, Kenro, 3,649,278.

Fujiya Co., Ltd.: *See*—
Fukumoto, Shoichi, 3,654,808.

Fujiyama, Masaaki: *See*—
Akashi, Goro; Fujiyama, Masaaki; Hirakawa, Takashi; and Suzuki, Osamu, 3,634,253.

Akashi, Goro; and Fujiyama, Masaaki, 3,653,962.

Fujiyama, Susumu; and Kosuge, Fumisada, to Japan Gas-Chemical Company, Inc. Process for the decomposition of a solution of hydrogen fluoride-boron trifluoride-xylene complex. 3,644,553, 2-22-72, Cl. 260-674.

Fujiyasu, Toshio: *See*—
Yunoki, Tadao; and Fujiyasu, Toshio, 3,672,257.

Fujiyoshi, Nobuo: *See*—
Ibuki, Satoshi; and Fujiyoshi, Nobuo, 3,632,747.

Ibuki, Satoshi; and Fujiyoshi, Nobuo, 3,651,215.

Fujiyu, Takemi: *See*—
Endo, Hiroshi; Tokoyoda, Kazuo; Fujiyu, Takemi; Kayasuga, Yasuaki; and Kunii, Tokio, 3,690,911.

Fujmoto, Shunsaku: *See*—
Uchiyama, Sei; Kaku, Eiichi; Kobayashi, Masahiro; Zoda, Takamichi; and Fujmoto, Shunsaku, 3,657,871.

Fukabori, Kentaro: *See*—
Ono, Isao; Fukabori, Kentaro; and Shimomura, Seiichi, 3,671,577.

Fukada, Eiichi: *See*—
Takamatsu, Toshiaki; and Fukada, Eiichi, 3,680,358.

Fukada, Hideaki, *mesne*: *See*—
Masuda, Yoshio; and Murakami, Toshikazu (said Murakami as sor. to), 3,672,079.

Fukada, Kenzo: *See*—
Ueshima, Kumao; Fukada, Kenzo; Yoshinaga, Masakazu; and Nakazona, Kiroshi, 3,701,516.

Fukada, Kenzo, to Nippon Steel Corporation. Transportation method for use in equipment of movable beam type. 3,658,171, 4-25-72, Cl. 198-219.

Fukada, Shunsuke; and Nakanishi, Toru, to Toray Industries, Inc. Apparatus and method for manufacturing continuous filaments from synthetic polymers. 3,707,593, 12-26-72, Cl. 264-210.00f.

Fukami, Masaharu; and Mori, Toshiyuki, to Olympus Optical Co., Ltd. Endoscope. 3,670,721, 6-20-72, Cl. 128-6.000.

Fukanuma, Hirotaka; Fujita, Kenji; and Kashiura, Kenji, to Japan Electro Plating Company. Method for effecting partial metal plating. 3,658,663, 4-25-72, Cl. 204-15.

Fukao, Keiji: *See*—
Tasaki, Toshio; and Fukao, Keiji, 3,637,283.

Fukao, Satoshi: *See*—
Iwashima, Hideo; and Fukao, Satoshi, 3,678,424.

Fukao, Yoshiro: *See*—
Goshi, Yoichi; and Fukao, Yoshiro, 3,639,759.

Fukasawa, Katsumi: *See*—
Yoshi, Masateru Kuni; Yamada, Hayatoshi; Fukasawa, Katsumi; and Tamura, Yoshiaki, 3,696,278.

Fukasawa, Kenichiro: *See*—
Suzuki, Yoshiaki; Yamura, Akira; and Fukasawa, Kenichiro, 3,642,834.

Fukasawa, Noburu; and Hatori, Yukiyoshi, to Nissan Motor Company, Limited. Liquid-level drop alarming system. 3,675,227, 7-4-72, Cl. 340-244.00r.

Fukata, Masayuki. Broadcast system for control signal. 3,639,839, 2-1-72, Cl. 325-64.

Fukata, Masayuki. Broadcast system for a control signal with interference reduction. 3,641,436, 2-8-72, Cl. 325-64.

Fukata, Masayuki. Broadcast system for transmitting a plurality of control signals under protection against a false signal. 3,648,174, 3-7-72, Cl. 325-64.

Fukata, Masayuki. Detection system for control information. 3,657,655, 4-18-72, Cl. 325-64.

Fukata, Yasuo: *See*—
Nakagome, Yukio; Teramura, Hiroichi; Fukata, Yasuo; and Ando, Sumitoshi, 3,668,328.

Fukatsu, Yukio: *See*—
Nakayama, Junn; and Fukatsu, Yukio, 3,670,061.

Fukawa, Mitsunosuke; Oishi, Haruo; Saruya, Kichitaro; Nagai, Akira; and Nagai, Yoshitaro. Formation of coating on copper containing materials. 3,669,766, 6-13-72, Cl. 148-6.240.

Fukaya, Shigeo; and Takagi, Nobuo. Apparatus for optionally selecting thrust force applied to the workpieces in the friction welding. 3,698,617, 10-17-72, Cl. 228-2.000.

Fukazawa, Nobuo: *See*—
Kudamatsu, Akio; Miyamoto, Masao; and Fukazawa, Nobuo, 3,679,726.

Matsushima, Kiyoshi; Miyamoto, Masao; and Fukazawa, Nobuo, 3,658,871.

Schrader, Gerhard; Eue, Ludwig; Hack, Helmuth; Hirane, Seiichi; Aya, Masahiro; Kishino, Shigeo; and Fukazawa, Nobuo, 3,636,143.

Schrader, Gerhard; Eue, Ludwig; Hack, Helmuth; Hirane, Seiichi; Aya, Masahiro; Kishino, Shigeo; and Fukazawa, Nobuo, 3,705,929.

Fukazawa, Shinichi: *See*—
Ogura, Mitsuo; and Fukazawa, Shinichi, 3,667,624.

Fukazawa, Yoshiaki; Iwata, Yoshitaka; and Sakurai, Shigeharu, to Mitsubishi Kasei Kogyo Kabushiki Kaisha. Method of manufacturing composite bodies of metals and polyolefins. 3,669,797, 6-13-72, Cl. 156-316.000.

Fukinbara, Itaru: *See*—
Yano, Nobumitsu; Fukushima, Masao; Fukinbara, Itaru; and Kishi, Masanori, 3,681,374.

Fukino, Katsushige, to Nippon Electric Company, Limited. Multi-emitter power transistor having emitter region arrangement for achieving substantially uniform emitter-base junction temperatures. 3,704,398, 11-28-72, Cl. 317-235.00r.

Fukuba, Hiroshi. Elastic wheel construction for carpet sweeper. 3,638,266, 2-1-72, Cl. 15-41.

Fukuba, Hiroshi. Carpet sweeper. 3,671,991, 6-27-72, Cl. 15-41.000.

Fukuba, Hiroshi. Carpet sweeper auxiliary brush means. 3,673,625, 7-4-72, Cl. 15-42.000.

Fukuda, Akio: *See*—
Arima, Kei; Tamura, Gakuzo; Imanaka, Hiroshi; Kousaka, Masanobu; and Fukuda, Akio, 3,699,121.

Fukuda, Atsushi: *See*—
Hasegawa, Katsumi; Ando, Akio; Okada, Morio; Kohno, Yukio; Aoi, Norihiro; Kamo, Tadasu; Hikita, Shinito; and Fukuda, Atsushi, 3,650,486.

Fukuda, Bunji: *See*—
Maruya, Mitsuru; Oono, Yoshio; Fukuda, Bunji; and Takahashi, Kenji, 3,644,231.

Fukuda, David S.: *See*—
Cooper, Robin D. G.; and Fukuda, David S., 3,681,380.

Fukuda, Hideo: *See*—
Komuro, Keiji; Inagami, Masaaki; and Fukuda, Hideo, 3,657,393.

Fukuda, Hideo; Suzuki, Takashi; Sumino, Yasuhiro; and Akiyama, Shunichi, to Takeda Chemical Industries, Ltd. Method for producing citric acid. 3,671,395, 6-20-72, Cl. 195-28.00r.

Fukuda, Hideo; Suzuki, Takashi; Akiyama, Shunichi; and Sumino, Yasuhiro, to Takeda Chemical Industries, Ltd. Method for producing citric acid. 3,689,359, 9-5-72, Cl. 195-28.00r.

Fukuda, Hirohisa: *See*—
Nakamura, Katsuyuki; Tanabe, Masanori; Mizoguchi, Yoshiyuki; and Fukuda, Hirohisa, 3,636,174.

Fukuda, Hiromichi: *See*—
Ishida, Shinichi; Yano, Nobumitsu; Ohshima, Noboru; Fukuda, Hiromichi; and Sato, Takeshi, 3,696,170.

Fukuda, Kazuo: *See*—
Yamada, Keisho; Umemura, Sumio; Ohdan, Kyoji; Hidaka, Mikio; Fukuda, Kazuo; and Sawazi, Masao, 3,688,002.

Fukuda, Kenji: *See*—
Minami, Shigeo; and Fukuda, Kenji, 3,663,106.

Fukuda, Masao; Goto, Hachiro; Norota, Susumu; and Fujisawa, Yukimasa, to Teijin Limited. Loop pile fabric and methods for manufacturing same. 3,679,533, 7-25-72, Cl. 161-66.000.

Fukuda, Masataro: *See*—
Watanabe, Nobuatsu; and Fukuda, Masataro, 3,700,502.

Fukuda, Masataro; and Iijima, Takashi, to Matsushita Electric Industrial Co., Ltd. Sealed type cell. 3,658,591, 4-25-72, Cl. 136-3.

Fukuda, Masataro; and Iwaki, Tsutomu, to Matsushita Electric Industrial Co., Ltd. Method for preparing an electrode for fuel cell. 3,666,565, 5-30-72, Cl. 136-120.

Fukuda, Mitsugu: *See*—
Fujimoto, Hiroshi; and Fukuda, Mitsugu, 3,677,940.

Kurokawa, Takaaki; Inoue, Noboru; and Fukuda, Mitsugu, 3,689,244.

Fukuda, Nobuo: *See*—
Ishii, Yoshio; Sakai, Shizuyoshi; Fukuda, Nobuo; Shimada, Shoji; Kurokawa, Kikuro; and Suzuki, Rokuji, 3,654,156.

Fukuda, Ryuhei: *See*—
Ogawa, Shinichiro; and Fukuda, Ryuhei, 3,693,645.

Fukuda, Satoshi: *See*—
Tachikawa, Kyoji; Tanaka, Yoshiaki; and Fukuda, Satoshi, 3,674,553.

Fukuda, Shigehisa: *See*—
Suhara, Toshiro; and Fukuda, Shigehisa, 3,639,150.

Fukuda, Shinro, to Fuji Photo Film Co., Ltd. Method of duplicating magnetic recording tapes using both surfaces of master tape for identical signals. 3,683,123, 8-8-72, Cl. 179-100.20e.

Fukuda, Shozo, to Mitsubishi Jukogyo Kabushiki Kaisha. Floatable casting for working on hull structures below water level. 3,638,437, 2-1-72, Cl. 61-64.

Fukuda, Sumumu: *See*—
Tanaka, Harum; and Fukuda, Sumumu, 3,682,067.

Fukuda, Susumu: *See*—
Ikegami, Yoshizo; Abe, Kuniomi; Nagai, Maskazu; Fukuda, Susumu; and Kakei, Takehiko, 3,633,484.

Fukuda, Susumu, to Fuji Photo Film Co., Ltd. Exposure control device for flash light equipped camera. 3,641,903, 2-15-72, Cl. 95-64.

Fukuda, Susumu, to Fuji Photo Film Co., Ltd. Flash cube rotating device. 3,653,315, 4-4-72, Cl. 95-11.

Fukuda, Tadanori; Takahashi, Masao; Ogihara, Shoji; and Sekiya, Masato, 33 1/3% to Toray Industries, Inc., 33 1/3% to Honda Motor Company, Ltd. and 33 1/3% to Fujijura Kasei Company, Ltd. Method for temporarily protecting the surfaces of an article. 3,706,89, 12-19-72, Cl. 117-6.000.

Fukuda, Takeji: *See*—
Tanaka, Eiachiro; Fukuda, Takeji; Yamaji, Kenkichi; Miyake, Yasuhiko; Ota, Hiroshi; and Kimura, Katsuo, 3,646,796.

Tanaka, Eiachiro; Onodera, Yutaka; Fukuda, Takeji; Yamashita, Tsutomu; and Kuma, Shoji, 3,652,967.

Tanaka, Eiachiro; Onodera, Yutaka; Fukuda, Takeji; Yamashita, Tsutomu; Saito, Tetsuo; and Kumia, Shoji, 3,665,595.

Fukuda, Teruo: *See*—
Hasebe, Morikuni; Fukuda, Teruo; Furusawa, Hisatomo; and Matsuba, Hironori, 3,649,542.

Hasebe, Morikuni; Nagai, Hiroshi; and Fukuda, Teruo, 3,663,742.

Fukuda, Yoshio, to Shimadzu Seisakusho, Ltd. Automatic spectrophotometer. 3,680,957, 8-1-72, Cl. 356-97.000.

Fukue, Hisanobu: *See*—
Fujimura, Tsutomu; Kamata, Hiroshi; Yamaguchi, Tomio; and Fukue, Hisanobu, 3,636,441.

Shigematsu, Hiroji; Yamaguchi, Tomio; Fukue, Hisanobu; Ogawa, Hiroshi; Hashimoto, Takashi; Murakoshi, Kenichi; Suguri, Susumu; and Fujimura, Tsutomu, 3,699,436.

Fukue, Norihiko: *See*—
Yoshimura, Ippei; Fukue, Norihiko; Sakamoto, Hiroshi; Murafushi, Hisashi; Hiya, Takami; and Matsunaga, Takao, 3,679,707.

Fukuhara, Hiroshi: *See*—
Tajima, Shigeru; Kobayashi, Katsumi; Fukuhara, Hiroshi; Yamamoto, Hiroki; and Ura, Shigeru, 3,652,583.

Fukuhara, Minoru: *See*—
Ayano, Hiroyoshi; Kibino, Yasuaki; Sato, Hiroyoshi; Ohta, Yukihiko; and Fukuhara, Minoru, 3,683,303.

Fukui, George M.: *See*—
Ludwig, Bernard J.; Berger, Frank M.; and Fukui, George M., 3,699,097.

Fukui, Haruo: *See*—
Yamasaki, Masaaki; Fujie, Kuniyoshi; and Fukui, Haruo, 3,699,224.

Fukui, Hiroshi; Iwatsu, Gakuji; and Kato, Junichi, to Aichi Steel Works Limited. High efficiency leaf spring. 3,705,718, 12-12-72, Cl. 267-47.000.

Fukui, Hisaaki: *See*—
Akamatsu, Kiyoshi; and Fukui, Hisaaki, 3,663,222.

Fukui, Hisaaki; Araki, Taketoshi; and Fuchi, Yoshikane, to Asahi Kasei Kogyo Kabushiki Kaisha. Relief lithographic plates and photosensitizing solutions. 3,677,755, 7-18-72, Cl. 96-35.100.

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Taniguchi, Tetsuji; Fukui, Kakichi; Imai, Shiro; Hayashi, Masahiro; and Seki, Koichi, 3,678,722.

Fukui, Kakichi; and Imai, Shiro, to Hitachi, Ltd. Roll changing means for four-high rolling mill. 3,638,468, 2-1-72, Cl. 72-238.

Fukui, Keiji. Automatic image shifting device. 3,683,525, 8-15-72, Cl. 40-36.000.

Fukui, Kiyoshi: *See*—
Masaki, Mitsuo; Fukui, Kiyoshi; Ueda, Masahiro; and Okimoto, Kiyomi, 3,687,938.

Masaki, Mitsuo; Fukui, Kiyoshi; Kuramasu, Tetsuro; and Ueda, Masahiro, 3,700,656.

Fukui, Saburo: *See*—
Kamimura, Masato; Arai, Risaburo; and Fukui, Saburo, 3,689,819.

Fukui, Sachio: *See*—
Sugimoto, Katsumi; and Fukui, Sachio, 3,639,512.

Fukui, Sakae; and Kobayashi, Hisamine, to TDK Electronics Company, Limited. Magnetic chips for barrel finishing and process for producing the same. 3,702,758, 11-14-72, Cl. 51-298.000.

Fukui Seiren Kako Co., Ltd.: *See*—
Horie, Hajime; Hirano, Tadao; Okuyama, Hideo; and Ishimoto, Atumi, 3,632,419.

Fukui Seiren Kako Kabushiki Kaisha: *See*—
Tokunaga, Yoshiyuki, 3,637,122.

Fukui, Tooru: *See*—
Nishiyama, Akira; Fukui, Tooru; Takahashi, Satoshi; Takashima, Yuji; Nakano, Masaaki; Izura, Yoshiteru; and Tanaka, Masaaki, 3,689,155.

Fukui, Toshio, to Japanese Geon Company, Ltd., The. Process for the preparation of improved cis-1,4-polyisoprene. 3,687,925, 8-29-72, Cl. 260-94.300.

Fukui, Yutaka: *See*—
Hachisu, Mikio; Niiyama, Eisuke; Sasaki, Ryoichi; Hataya, Humio; and Fukui, Yutaka, 3,658,516.

Fukukawa, Yukio; and Shinoda, Masaichi, to Fujitsu Limited. Impatt diode. 3,663,874, 5-16-72, Cl. 317-235.

Fukuma, Noboru; Matsui, Kenichi; and Shimizu, Hiroshi, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing crimped polypropylene filaments. 3,663,675, 5-16-72, Cl. 264-168.

Fukuma, Noboru; Kobayashi, Hidehiko; Matsui, Kenichi; Sakashita, Masahira; and Henmi, Hiroshi, to Asahi Kasei Kogyo Kabushiki Kaisha. Synthetic conjugate filament fibers and a process for the manufacture of the same. 3,677,880, 7-18-72, Cl. 161-173.000.

Fukumi, Hirokazu: *See*—
Inoue, Goro; and Fukumi, Hirokazu, 3,637,689.

Inoue, Goro; and Fukumi, Hirokazu, 3,686,260.

Fukumitsu, Minoru. Flowing-light devices. 3,640,011, 2-8-72, Cl. 40-133.

Fukumiya, Yukio: *See*—
Kiyomiya, Hiromoto; Fukumiya, Yukio; Aoki, Mithuzi; and Mama, Hiromichi, 3,703,611.

Fukumoto, Hisashi: *See*—
Terai, Akio; Kawamura, Eiji; Fukumoto, Hisashi; and Aoki, Hidekatsu, 3,696,879.

Fukumoto, Juichiro; and Yamamoto, Takehiko, to Miles Laboratories, Inc. Process for simultaneous fractionation and purification of protease and ribonuclease of rhizopus mold. 3,661,716, 5-9-72, Cl. 195-66.

Fukumoto, Shoichi, to Fujiya Co., Ltd. Barometer. 3,654,808, 4-11-72, Cl. 73-384.

Fukumoto, Tetsuo: *See*—
Yamaguchi, Goro; Komatsu, Susumu; Yoshizaki, Kazuhiro; and Fukumoto, Tetsuo, 3,694,379.

Fukumura, Masataka; Shimago, Kozo; Okano, Shigeru; Nakatani, Hiroshi; and Hesaka, Kenji, to Sumitomo Chemical Company, Ltd. Esters of 3-pyrazolemethanols and process for their preparations. 3,666,756, 5-30-72, Cl. 260-240.00j.

Fukumuro, Hiroshi: *See*—
Yokoi, Hiroshi; and Fukumuro, Hiroshi, 3,696,436.

Fukunaga, Masao; and Amo, Kiyoyuki, to Matsushita Electric Industrial Co., Ltd. Electrically powered can opener. 3,706,135, 12-19-72, Cl. 30-4.00r.

Fukunaga, Mitsunobu: *See*—
Tachikawa, Ryuji; Takagi, Hiromu; Kamioka, Toshiharu; Fukunaga, Mitsunobu; Kawano, Yoichi; and Miyadera, Tetsuo, 3,696,094.

Fukunaga, Tadayuki: *See*—
Sugahara, Takashi; Suzuki, Minoru; Fukunaga, Tadayuki; and Fukushima, Shozo, 3,640,069.

Fukuoka, Akira: *See*—
Ishizawa, Kazutomo; Nagata, Yasunori; Abe, Junnosuke; and Fukuoka, Akira, 3,646,992.

Fukuoka, Ichiro; Kimura, Shoji; Nishimura, Takehiko; and Takahashi, Satoshi, to Denki Kagaku Kogyo Kabushiki Kaisha. Method of producing 2-chlorobutadiene-1,3. 3,697,609, 10-17-72, Cl. 260-655.000.

Fukuoka, Ichiro; Takahashi, Satoshi; and Yagi, Norio, to Denki Kagaku Kogyo Kabushiki Kaisha. Process for preparing mercapto-terminated chloroprene copolymers. 3,700,645, 10-24-72, Cl. 260-77.5c.

Fukuoka, Tatsuo. Injection molding method for sandals. 3,671,621, 6-20-72, Cl. 264-244.000.

Fukuoka, Tatsuo. Footwear. 3,672,078, 6-27-72, Cl. 36-11.500.

Fukuoka, Tatsuo. Footwear. 3,698,107, 10-17-72, Cl. 36-11.500.

Fukuoka, Tokuji: *See*—
Obuchi, Satoru; Fukuoka, Tokuji; Nagato, Saburo; Murakami, Kunio; Shigeta, Tamikazu; and Hayashi, Hiroyuki, 3,682,687.

Fukuoka, Yohei: *See*—
Senoo, Saburo; Fukuoka, Yohei; and Sasaki, Katuyoshi, 3,674,851.

Fukushi, Saburo: *See*—
Koyano, Takashi; and Fukushi, Saburo, 3,699,174.

Usami, Seiji; Nishimura, Kotaro; Koyama, Takeo; and Fukushi, Saburo, 3,634,291.

Fukushima, Akihiko: *See*—
Ohtani, Yoshio; Fukushima, Akihiko; and Kakijima, Todomu, 3,636,933.

Fukushima, Danji: *See*—
Yokotsuka, Tamotsu; Aonuma, Tatsuo; Mogi, Koya; Fukushima, Danji; Yasuda, Atsushi; Watanabe, Hiroharu; Tsukada, Naoshi; and Arai, Akira, 3,647,484.

Fukushima, Hideaki: *See*—
Suzuki, Yoshio; Aono, Shunji; and Fukushima, Hideaki, 3,666,774.

Fukushima, Keitaro: *See*—
Kuratani, Keiji; and Fukushima, Keitaro, 3,701,820.

Fukushima, Kiyotaka: *See*—
Nagata, Masanori; and Fukushima, Kiyotaka, 3,644,716.

- Fukushima, Kunihiko: *See*—
Yamaguchi, Yukiya; Fukushima, Kunihiko; Yasuda, Minoru; and Nagata, Shojiro, 3,701,095.
- Fukushima, Masakazu: *See*—
Okabe, Tadao; Tanaka, Makoto; Tamura, Shozo; Fukushima, Masakazu; and Oikawa, Mitsuru, 3,668,002.
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- Yano, Nobumitsu; Fukushima, Masao; Fukinbara, Itaru; and Kishi, Masanori, 3,681,374.
- Fukushima, Masatada: *See*—
Suzuki, Munehiko; Hosokawa, Etsuo; Waki, Misao; and Fukushima, Masatada, 3,666,709.
- Suzuki, Munehiko; Hosokawa, Etsuo; Waki, Misao; and Fukushima, Masatada, 3,692,740.
- Suzuki, Munehiko; Hosokawa, Etsuo; Waki, Misao; and Fukushima, Masatada, 3,696,077.
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Oohara, Saburo; Amemiya, Koitsuro; Nishijima, Yasushi; Fukushima, Mitsuyoshi; and Shimizu, Kunio, 3,677,871.
- Fukushima, Osamu: *See*—
Famai, Yasuo; and Fukushima, Osamu, 3,705,767.
- Matsumoto, Seiji; Sato, Masamichi; and Fukushima, Osamu, 3,678,350.
- Sato, Masamichi; and Fukushima, Osamu, 3,642,471.
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Sugahara, Takashi; Suzuki, Minoru; Fukunaga, Tadayuki; and Fukushima, Shozo, 3,640,069.
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Hirai, Masuhiko; and Fukushima, Takeo, 3,680,756.
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Ando, Ryo; and Fukushima, Tsutomu, 3,664,827.
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Azami, Kyoichiro; Ohotani, Hiroshi; and Fukutomi, Hiroshi, 3,694,383.
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Maeda, Yo; Suzuki, Satoshi; Nakamura, Yoshiharu; Masubuchi, Yorimitu; Ueyama, Tamotsu; Fukutomi, Naoki; and Takahashi, Hiroshi, 3,646,670.
- Fukuura, Yukio: *See*—
Honda, Toshio; Kubota, Eishi; Fukuura, Yukio; and Kobayashi, Yoneji, 3,705,868.
- Iwami, Ichiro; Honda, Toshio; and Fukuura, Yukio, 3,673,022.
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Nozawa, Shunichi; Kuroi, Hisashi; Hatada, Masamichi; and Fukuyama, Shunsaku, 3,701,925.
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Andres, Karlheinz; Brochhagen, Franz Karl; Wunderer, Anton; and Fulber, Josef, 3,645,927.
- Fulcher, Edwin Maxwell: *See*—
Madrado, Charles Felix; Fulcher, Edwin Maxwell; and McDonagh, Kevin Patrick, 3,699,355.
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Smith, Wayne E.; Batchelor, Robert L.; and Fulk, Kenneth J., 3,694,423.
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Klink, Jerome P.; and Fulk, Walter F., 3,644,109.
- Fulkefson, Ambrose A.: *See*—
Freeman, Donald J.; Fulkerson, Ambrose A.; Grall, Kenneth J.; and Pearson, Samuel J., 3,695,949.
- Fulkerson, Brazelton: *See*—
Grant, Peter M.; Fulkerson, Brazelton; and Mench, John W., 3,697,640.
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Wittmoser, Adalbert; Schade, Johannes; and Krzyzanowski, Erich, 3,654,987.
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Kent, Nelson H.; and Fullagar, Keith P. L., 3,635,586.
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- Fullen, Warren J.: *See*—
Shackelford, William E.; and Fullen, Warren J., 3,682,867.
- Fuller, Clyde R.: *See*—
Carlson, Harold G.; Fuller, Clyde R.; and Brown, George A., 3,632,438.
- Cunningham, James A.; Fuller, Clyde R.; and Wood, Samuel J., Jr., 3,647,663.
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Boyhont, Donald S.; and Souders, Marvyn L., 3,704,917.
- Devel, Daniel T., 3,704,525.
- Edmonds, James C., 3,680,222.
- Fisher, Ervin; and Warshawsky, Jay, 3,653,188.
- Houseknecht, Theodore M., 3,649,317.
- Kramer, Walter W., 3,672,577.
- Lincoln, Roland L., 3,651,620.
- Lincoln, Roland L., 3,667,133.
- Lincoln, Roland L., 3,680,781.
- Lincoln, Roland L., 3,692,244.
- Matweecha, David M., 3,648,985.
- Solt, Paul E., 3,638,328.
- Solt, Paul E., 3,647,188.
- Solt, Paul Ervin, 3,632,175.
- Talgo, Paul, 3,700,220.
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Godley, Augustus P.; Fuller, Francis M.; Houk, Charles R.; Holland, Henry A. Nelson; and Gendron, George J., 3,641,775.
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Meriano, Albert P.; Fuller, Giles A.; and Knuth, William H., 3,698,507.
- Fuller, John D. Work brace for vice. 3,661,377, 5-9-72, Cl. 269-88.
- Fuller, John L.: *See*—
Hayes, Robert R.; Fuller, John L.; and Stockham, James R., 3,669,449.
- Fuller Laboratories, Inc.: *See*—
Hay, John A.; and Johnson, Donald W., 3,631,852.
- Fuller, Melvin L., to Litton Systems, Inc. Photo-select memory switch. 3,701,117, 10-24-72, Cl. 340-173,000.
- Fuller, Ralph A.: *See*—
Fuller, Ralph A.; and Snodgrass, Earl D., 3,640,190.
- Fuller, Ralph A.; and Snodgrass, Earl D., to Waterman, Herrick, 3,640,190, 2-8-72, Cl. 93-94.
- Fuller, Roger L.: *See*—
Bushnell, David; Fuller, Roger L.; and Oliver, Joseph J., 3,641,569.
- Fuller, Roger L.; Kaye, Robert K.; Oliver, Joseph J.; and Rood, William H., to Raytheon Company. Surface vehicle fleet command and control system. 3,646,580, 2-29-72, Cl. 325-53.
- Fuller, Sterritt R., Jr.: *See*—
Findlay, Hugh T.; Fuller, Sterritt R., Jr.; and Stone, Jerry F., 3,682,764.
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Black, Herman Wendell; Wright, Richard R.; Fullmer, Don K.; and Naylor, Keith W., 3,658,379.
- Fullmer, Richard K., to Electronic Development Corporation. Portable lecture unit. 3,684,831, 8-15-72, Cl. 179-1,040.
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Fullmer, Roger W., 3,659,492.
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Gentsch, Erich; Bederke, Klaus; Seider, Walter; Fullner, Hans Jürgen; and Muhlmann, Christa, 3,700,483.
- Fulmer, George M.: *See*—
Lane, Frank B.; and Fulmer, George M., 3,655,214.
- Fulmer, Keith H.: *See*—
Bach, Lloyd G.; Ewald, Jerome T.; and Fulmer, Keith H., 3,688,498.
- Schultz, Harold B.; Fulmer, Keith H.; and Burnett, Richard T., 3,677,607.
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King, Henry, 3,653,258.
- Fulton, Bertram A.; and Slouka, Richard A., to American Hospital Supply Corporation. Inertia release for dental handpiece hose retractor. 3,693,258, 9-26-72, Cl. 32-22,000.
- Fulton, Donald E.: *See*—
Cox, Duncan B., Jr.; Fertig, Kenneth; and Fulton, Donald E., 3,667,031.
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Linblad, Thomas N., 3,684,167.
- Fulton, James C.; and Ramachandran, Sundaresan, to Allegheny Ludlum Steel Corporation. Decarburizing molten steel. 3,649,246, 3-14-72, Cl. 75-60.
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Anderson, Philip Warren; Dynes, Robert Carr; and Fulton, Theodore Alan, 3,676,718.
- Dynes, Robert Carr; and Fulton, Theodore Alan, 3,706,064.
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Latour, Andre; and Fumagalli, Giacomo, 3,679,851.
- Fumagalli, Giovanni. Pressure alternating device for automatic lungs ventilator actuation. 3,658,443, 4-25-72, Cl. 417-384.
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Hata, Kiyoshi, 3,640,479.
- Fumat, Joseph, to Verdol S.A. Driving devices for loom shed-forming mechanisms. 3,661,185, 5-9-72, Cl. 139-1.
- Fumia, Arthur, Jr.: *See*—
Brooker, Leslie G. S.; Fumia, Arthur, Jr.; and Heseltine, Donald W., 3,652,289.
- Brooker, Leslie G. S.; and Fumia, Arthur, Jr., 3,672,906.
- Van Lare, Earl J.; and Fumia, Arthur, Jr., 3,655,393.
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- Funada, Kiyotaka: *See*—
Kamiya, Nobuyuki; Funada, Kiyotaka; Shinohara, Takashi; and Imai, Hiroko, 3,664,860.
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Seki, Hideo; Funada, Mitsuaki; and Ota, Kunio, 3,632,651.
- Funahashi, Takaji. Rubber stamper with interchangeable printing blocks. 3,631,799, 1-4-71, Cl. 101-327.
- Funakisko, Sayoko: *See*—
Adachi, Toshio; Funakisko, Sayoko; Furuya, Akio; and Uchida, Masakatsu, 3,700,624.
- Funakoshi, Yoshiro: *See*—
Heki, Takao; Yasumatsu, Katsuharu; Sawada, Koshichi; and Funakoshi, Yoshiro, 3,701,667.
- Funakoshi, Yoshiro; Kajura, Takehiko; Fujii, Kiyoshi; Kanamaru, Toshihiko; Nishitani, Masaki; and Komeda, Hiromu, to Takeda Chemical Industries, Ltd. Process for coating granular materials. 3,671,296, 6-20-72, Cl. 117-100,000.
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- Funakubo, Tsukasa: *See*—
Sato, Yoshikazu; and Funakubo, Tsukasa, 3,635,569.
- Funasaki, Yasuo: *See*—
Hatagi, Hiroyuki; Kanamaru, Kenichi; and Funasaki, Yasuo, 3,678,226.
- Funatsu, Takao: *See*—
Yoshida, Yuji; Asada, Noriyosi; and Funatsu, Takao, 3,667,870.
- Funck, Albrecht: *See*—
Dogl, Ernst; Funck, Albrecht; Wellach, Dieter; and Winkler, Hans-Georg, 3,672,373.
- Functional Devices, Inc.: *See*—
Rittmann, Albert D., 3,696,382.
- Functional Systems Corporation: *See*—
Keesling, Clifford E., 3,641,854.
- Keesling, Karl K.; Keesling, Thomas B.; and Keesling, Clifford E., 3,643,885.
- Funderburk, Lance Harmon: *See*—
Illy, Hugo; and Funderburk, Lance Harmon, 3,639,420.
- Funfstuck, Horst, to Statham Instruments Inc. Electromagnet for blood flowmeters and the like. 3,636,764, 1-25-72, Cl. 73-194.
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- Funk, Andrew B.: *See*—
Baskin, Herbert A.; and Funk, Andrew B., 3,635,725.
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- Busch, Bernhard; Funk, Hans; and Teltschik, Walter, 3,689,586.
- Funk, Howard C., to Funk Mfg., Company. Drive mechanism for concrete mixer. 3,658,303, 4-25-72, Cl. 259-177.
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- Funk Mfg., Company: *See—*
- Funk, Howard C., 3,658,303.
- Funk, R., & Co., Inc.: *See—*
- Funk, Rudolph; and Funk, Roger S., 3,698,705.
- Funk, Richard H.: *See—*
- Rummel, Edward W.; and Funk, Richard H., 3,683,253.
- Funk, Roger S.: *See—*
- Funk, Rudolph; and Funk, Roger S., 3,698,705.
- Funk, Rudolph; and Funk, Roger S., to Funk, R., & Co., Inc. Apparatus for folding flexible sheets. 3,698,705, 10-17-72, Cl. 270-67.000.
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- Funke, Hans Joachim: *See—*
- Pelikan, Hans Dieter; and Funke, Hans Joachim, 3,645,813.
- Funke, Klaus Ernst, to Digital Telephone Systems, Inc. Telephone signaling unit. 3,637,943, 1-25-72, Cl. 179-16.
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- Woerner, Rudolph C.; and Funkhouser, Terry D., 3,662,017.
- Funkhouser, Terry D., to Petro-Tex Chemical Corporation. Method of purifying unsaturated hydrocarbons by extractive distillation with side stream removal and solvent mix. 3,681,202, 8-1-72, Cl. 203-53.000.
- Funtronics, Inc.: *See—*
- Hurley, Frederick A., 3,637,212.
- Furaeva, Ekaterina: *See—*
- Gerchenova, Nina Andreevna; Gurvich, Lev Moiseevich; Zelenkaya, Olga Ivanovna; Korotsky, Alexandr Filippovich; Machulsky, Petr Alexeevich; Nesterova, Maria Petrovna; Selifanova, Evdokia Prokofievna; Taubman, Arkady Borisovich; and Furaeva, Ekaterina, 3,68,099.
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- Furane Plastics Incorporated: *See—*
- Delmonte, John; Meadows, Paul L.; and Benavides, Augusto E., 3,703,425.
- Furbeck, Warren R.: *See—*
- Lee, Charles A.; and Furbeck, Warren R., 3,669,781.
- Lee, Charles Allen; Furbeck, Warren R.; Bartley, Thomas S.; and Beatty, Jeremy, 3,641,627.
- Lee, Charles Allen; Furbeck, Warren R.; Bartley, Thomas S.; and Beatty, Jeremy, 3,682,761.
- Furby, Jim: *See—*
- Fairweather, Ernest Sidney; and Furby, Jim, 3,695,722.
- Furby, Neal W.: *See—*
- Burrows, Merwyn L.; and Furby, Neal W., 3,649,721.
- Furey, Robert G.: *See—*
- Minero, Richard H.; Anello, Anthony J.; Furey, Robert G.; and Palounek, Lubos R., 3,660,646.
- Furford, Julius M. Cranberry harvesting apparatus. 3,672,140, 6-27-72, Cl. 56-330.000.
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- Grand, Paul S.; Falivene, Pasquale Joseph; and Furgal, Henry P., 3,698,095.
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- Furgueson, George Michael. Nozzle storage unit. 3,667,712, 6-6-72, Cl. 248-75.
- Furihata, Hideo: *See—*
- Miyasaka, Mamoru; Kurita, Hirohisa; and Furihata, Hideo, 3,678,682.
- Furlani, John J.; Davis, Harry J.; and Ingersoll, Philip, to United States of America, Army. Electronic device applicable to ordnance safety and arming system. 3,653,324, 4-4-72, Cl. 102-70.2.
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- Dames, Heinz; and Furtwaengler, Gerhard, 3,651,294.
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- Tadokoro, Toyotoshi, 3,681,960.
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- Maegawa, Harumi; Sato, Yohihiro; Furuhashi, Yasuo; and Kiumi, Takayuki, 3,641,522.
- Furui, Takeo: *See—*
- Ishimitsu, Akitoshi; Furui, Takeo; Sato, Katsuhiko; and Sawamura, Yasumasa, 3,649,248.
- Furuichi, Itsuro: *See—*
- Usamoto, Teruyoshi; Hatada, Yasutaka; Furuichi, Itsuro; and Matsuo, Masao, 3,706,819.
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- Sato, Chosei; Furukawa, Akihisa; and Sano, Yoichi, 3,649,185.
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- Hasebe, Morikuni; Fukuda, Teruo; Furusawa, Hisatomo; and Matsuba, Hironori, 3,649,542.
- Hasebe, Morikuni; Nagai, Hiroshi; and Fukuda, Teruo, 3,663,742.
- Hosoda, Kirokuro; and Shiina, Naonori, 3,651,183.
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- Mizuguchi, Toru; Fujita, Mitsuo; and Suzuki, Yoshiaki, 3,665,588.
- Morikawa, Kazumasa; Kobayashi, Makoto; Sato, Hiromitsu; and Nakazima, Jun, 3,698,652.
- Murota, George, 3,650,868.
- Negishi, Akira; Takayanagi, Kiyoshi; and Ikeda, Masaru, 3,660,082.
- Sekiguchi, Hideo; and Sadamitsu, Kazuo, 3,642,708.
- Sekiguchi, Hideo; and Sadamitsu, Kazuo, 3,644,297.
- Shioda, Hirohisa; Namiki, Isamu; Hori, Hisako; and Katsuyama, Yoshihisa, 3,639,483.
- Yoshida, Tsunemi; Ishikawa, Koichi; Ando, Masatoshi; Ueno, Yoshihiko; and Arisawa, Kunio, 3,660,000.
- Furukawa Electric Company, The: *See—*
- Kamata, Yoshihiro; and Hirose, Takashi, 3,676,322.
- Furukawa, Fujio: *See—*
- Taniguchi, Kaname; Furukawa, Fujio; Hisatome, Tomiro; and Kimura, Yoshito, 3,677,660.
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- Furukawa, Hikaru: *See—*
- Suzuki, Takashi; and Furukawa, Hikaru, 3,688,301.
- Takeda, Ikuo; Suzuki, Takashi; and Furukawa, Hikaru, 3,656,153.
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- Furukawa, Hikaru; and Aihara, Hiroshi, to Takeda Riken Industry Company Limited. Analog-digital converting apparatus. 3,662,376, 5-9-72, Cl. 340-347.
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- Morikawa, Hiroyuki; and Furukawa, Junji, 3,663,639.
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- Hamanaka, Yasushi; Tajiri, Hiromi; Etoh, Kuniomi; Furukawa, Kaoru; and Masai, Yukito, 3,640,761.
- Furukawa, Motoaki: *See—*
- Uchida, Teiji; and Furukawa, Motoaki, 3,633,034.
- Uchida, Teiji; and Furukawa, Motoaki, 3,633,035.

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- Furukawa, Teruo: See—
Yamazaki, Akihiro; Furukawa, Teruo; and Kumashiro, Izumi, 3,678,030.
- Furukawa, Yasuhiro: See—
Komatsu, Youji; Furukawa, Yasuhiro; and Yokomizo, Takashi, 3,662,015.
- Furukawa, Yauhiro: See—
Komatsu, Youji; Furukawa, Yauhiro; and Yokomizo, Takashi, 3,674,886.
- Furukawa, Yoji: See—
Suzuki, Norio; and Furukawa, Yoji, 3,670,158.
- Furukawa, Yoshiki: See—
Ikubo, Yuichi; Nishida, Takuji; and Furukawa, Yoshiki, 3,645,998.
- Furukawa, Yoshinobu: See—
Maeda, Yutaka; Kimura, Hiroshi; Koshimo, Akio; Kanzaki, Nagamasa; Yasuzuka, Katsumi; and Furukawa, Yoshinobu, 3,643,412.
- Furukawa, Yoshiyasu: See—
Jonjo, Mikio; and Furukawa, Yoshiyasu, 3,666,748.
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Masuda, Shiro; Ohkubo, Takashi; and Furukawa, Yu, 3,703,492.
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- Furuno, Nobuo: See—
Oyabu, Yoshiaki; Furuno, Nobuo; Kawahara, Tomosaburo; and Kawai, Hitoshi, 3,707,446.
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Sumoto, Misao; Komagata, Hideki; Matsumoto, Hiroshi; and Furusawa, Hironobu, 3,701,755.
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Hasebe, Morikuni; Fukuda, Teruo; Furusawa, Hisatomo; and Matsuba, Hironori, 3,649,542.
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- Furuta, Mitsuo: See—
Yamazaki, Yasuo; Furuta, Mitsuo; and Kuramoto, Yoshio, 3,661,065.
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- Furuya, Akio: See—
Adachi, Toshio; Funakisko, Sayoko; Furuya, Akio; and Uchida, Masakatsu, 3,700,624.
- Furuya, Akio; Hayashi, Masaaki; Nagami, Kouichi; Uchida, Masakatsu; Nishino, Sakae; Asada, Toshikatsu; Nagao, Yasuo; Matsuda, Hiroyoshi; and Tsuchiya, Harufumi, to Dai Nippon Torio Kabushiki Kaisha. Electrophoretic coating. 3,689,446, 9-5-72, Cl. 260-23.70.
- Furuya, Tuneso: See—
Kondo, Eiroku; Usuda, Hirotaka; Suzuki, Hidemasa; and Furuya, Tuneso, 3,647,981.
- Fury, Roy C.: See—
Johnston, Harlin D.; and Fury, Roy C., 3,684,447.
- Fusco, Franc C., to Marx, Louis, & Co., Inc. Toy simulating living creatures and an enclosure therefor. 3,650,064, 3-21-72, Cl. 46-12.
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Uemura, Saburo; Fuse, Toyohiko; and Hashimoto, Yoshitaka, 3,639,698.
- Fuse, Yuzo: See—
Naruse, Oyhysuke; Ashiya, Ryosuke; Nii, Takehiko; and Fuse, Yuzo, 3,705,322.
- Naruse, Oyhysuke; Ashiya, Ryosuke; Nii, Takehiko; and Fuse, Yuzo, 3,686,525.
- Tokita, Tetsuo; Fuse, Yuzo; and Katagiri, Yoshiharu, 3,668,464.
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- Fushiki, Isamu: See—
Sakamoto, Kenro; Fushiki, Isamu; and Nakamura, Shinichi, 3,637,393.
- Fusi, Robert W.: See—
Howland, Robert F.; Haigh, Joseph B., II; and Fusi, Robert W., 3,694,226.
- Fuss, Peter Siegfried, to Bell Telephone Laboratories, Inc. Cascade digital fast Fourier analyzer. 3,702,393, 11-7-72, Cl. 235-156.000.
- Fussel, Kurt, to Sinram & Wendt. Hanger for articles of clothing or the like. 3,632,028, 1-4-72, Cl. 223-95.
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- Fussell, Calvin Raymond, 1/2 to Jones, W. L., Jr. Meter for measuring the flow of gas. 3,645,138, 2-29-72, Cl. 73-401.
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- Fusselman, Robert M., to General Fireproofing Company, The. Pull. 3,646,634, 3-7-72, Cl. 16-124.
- Fussner, Paul: See—
Bertsch, Richard; Fussner, Paul; Glaser, Manfred; and Nusser, Hermann, 3,639,085.
- Romann, Peter; Knapp, Heinrich; and Fussner, Paul, 3,680,794.
- Fust, Juergen: See—
Goelz, Horst; Suter, Hubert; Fust, Juergen; and Himmele, Walter, 3,635,968.
- Futaki, Kiyoshi: See—
Ohyama, Yasushi; Futaki, Kiyoshi; Tosa, Senji; Horiuchi, Yoshikazu; and Takemura, Akira, 3,666,471.
- Ohyama, Yasushi; Futaki, Kiyoshi; and Tosa, Senji, 3,702,246.
- Futamata, Masayuki: See—
Taki, Hiroyuki; Inouye, Kazuo; Sakaki, Naruhiko; and Futamata, Masayuki, 3,633,461.
- Futamata, John, to Fischer & Porter Company. Floating-type electronic servo-motor process controller. 3,686,557, 8-22-72, Cl. 318-599.000.
- Futamura, Jun: See—
Riester, Hubert; and Futamura, Jun, 3,688,176.
- Futamura, Shingo: See—
Bouton, Thomas; and Futamura, Shingo, 3,686,158.
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- Futera, Miroslav: See—
Kadera, Vaclav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemecek, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, 3,647,312.
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Aono, Masazumi; and Fuutagawa, Ikuo, 3,692,555.
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- Fuziyoshi, Kenzi: See—
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- Fuziyoshi, Kozi: See—
Sato, Mikio; Hohrai, Yoshiki; and Fuziyoshi, Kozi, 3,635,056.
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- Fuzzell, Joe E., to Caterpillar Tractor Company. Mechanism for controlling a vehicle from a remote location. 3,631,762, 1-4-72, Cl. 91-411.
- Fuzzell, Joe E., to Caterpillar Tractor Company. Bucket positioning device utilizing a biased proximity switch. 3,659,734, 5-2-72, Cl. 214-764.
- Fyanes, Robert V. Board game apparatus. 3,704,018, 11-28-72, Cl. 273-134.0ab.
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Larsen, John, 3,692,070.
- Fyler, Norman F., to Corning Glass Works. Photochromic fiber optic image storage device. 3,703,660, 11-21-72, Cl. 313-92.0lf.
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- Fyson, John William; and Truscott, John Raymond, to National Research Development Corporation. Inhibited demand pacer with a two-rate pulse generator. 3,661,157, 5-9-72, Cl. 128-419.
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Budai, Robert E.; and McDowell, Philip R., 3,688,814.
- McDowell, Philip R.; and Vekovious, Charles W., 3,667,165.
- G & H Mechanical Laboratory Inc.: See—
Germann, Albert G., 3,633,982.
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- G & L Corporation: See—
Griffin, Kenneth H., 3,659,823.
- G & L Industries, Inc.: See—
Lee, Dennis D., 3,657,812.
- G & W Electric Specialty Company: See—
Heppner, Donald R., 3,662,082.
- Lusk, George E., 3,634,604.
- G & W Products Company: See—
Geisler, Russell W.; and Wheaton, John W., 3,659,581.
- G. C. Optronics Inc.: See—
Grant, Ralph M., 3,645,129.
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Seragnoli, Ariosto, 3,670,475.
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Seragnoli, Ariosto, 3,642,112.
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Seragnoli, Ariosto, 3,707,219.
- Seragnoli, Ariosto, 3,640,373.
- Seragnoli, Ariosto, 3,679,079.
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Peron, Robert J. GH., 3,661,058.
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Asadurian, Manuel, 3,643,993.
- G. K. N. Sankey Limited: See—
Greaves, John Alfred; and Shelley, Steven Victor, 3,648,889.
- G. K. N. Somerset Wire Limited: See—
Cahill, Terence, 3,676,578.
- G S Equipment Company: See—
Gill, Thomas R., 3,653,700.
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Tolson, Raymond C. Sr.; and Tolson, Raymond C. Jr., 3,706,573.
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Garst, Orville L.; and Miller, Roman S., 3,680,165.
- G-L-J Toy Co., Inc., mesne: See—
Greenwood, Donald, 3,650,067.
- G-V Controls, Inc.: See—
Di Massimo, Donald V., 3,657,481.
- Gil, Ramon, 3,702,905.
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Miller, Manuel S., 3,669,592.
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- Gaarder, Kenneth R.; and Leaf, William B., to Prototypes, Inc. Non-linear electromyograph. 3,641,993, 2-15-72, Cl. 128-2.1.
- Gabano, Jean-Paul; and Gerbier, Gerard Marcel, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Non-aqueous electrolyte for lithium electrochemical generators. 3,701,688, 10-31-72, Cl. 136-100.00r.
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- Gabbard, Ova G.: See—
Sekimoto, Tadahiro; and Gabbard, Ova G., 3,634,628.
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Ellis, David R.; Michels, John; and Gabbert, Ira, 3,675,214.
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- Gabel, Floyd S. Powered cutter apparatus. 3,654,978, 4-11-72, Cl. 146-98.
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Studinka, Josef; and Gabler, Rudolf, 3,706,702.
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Croce, Louis J.; Bajars, Laimonis; and Gablits, Maigonis, 3,655,805.
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- Gaboardi, Mario: See—
Kemeny, Giulio; Gaboardi, Mario; Santini, Aldo; Testori, Mario; Reinhardt, Paul-Dietrich; Simoleit, Hartmut; and Walter, Ludwig, 3,652,217.
- Gabor, Andrew, to Diablo Systems, Inc. Apparatus for controlling the relative position between two relatively movable members. 3,663,880, 5-16-72, Cl. 318-603.

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- Gabor, Dennis, to Columbia Broadcasting System, Inc. Photo-electronic imaging apparatus. 3,676,732, 7-11-72, Cl. 315-10.000.
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- Gabrielsen, Rolf S.; and Olivares, Ismael A., to Eastman Kodak Company. Photographic developing process with amino hydroxy cycloalkenone. 3,690,872, 9-12-72, Cl. 96-66.0hd.
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- Gac, Robert: See—
- Berthou, Jean; and Gac, Robert, 3,637,870.
- Gacsa, Gerald R.: See—
- Erikson, J. Alden; and Gacsa, Gerald R., 3,674,670.
- Gach, Francis X.; Fanton, Ralph E.; and Hazzard, Noel D., to Air Preheater Company, Inc., The. Burner for incinerator. 3,699,905, 10-24-72, Cl. 110-8.00a.
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- Gadient, Fulvio: See—
- Ebnother, Anton; Bastian, Jean-Michel; and Gadient, Fulvio, 3,678,057.
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- Durteste, Bernard Pierre Jean; Gadre, Jean-Claude; and Loisel, Jean Francois Pierre Julien, 3,657,698.
- Gadren, George S.: See—
- Van Dalen, Leonard; and Gadren, George S., 3,636,798.
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- Gaeth, Rudolf; Stastny, Fritz; Breu, Rudolf; and Gaertner, Friedhelm, 3,640,837.
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- Gaetani, Bruno: See—
- Arrigoni, Virgilio; Sezzi, Franco; and Gaetani, Bruno, 3,678,732.
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- Short, James N.; Zelinski, Robert P.; Gaeth, Rudolf H.; and Zuech, Ernest A., 3,637,627.
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- GAF (Great Britain) Limited: See—
- Islam, Rafiqul; Garnish, Sidney George; Figov, Murray; and Mustacchi, Henry, 3,639,421.
- GAF Corporation: See—
- Barabas, Eugene S.; and Fein, Marvin M., 3,635,868.
- Barabas, Eugene S.; and Grosser, Frederick, 3,652,481.
- Barabas, Eugene S.; Grosser, Frederick; and Schneider, Louis, 3,677,990.
- Barabas, Eugene S.; and Fein, Marvin M., 3,686,150.
- Barabas, Eugene S.; and Fein, Marvin M., 3,691,125.
- Beiswanger, John Paul Gerhardt; and Nassry, Assadullah, 3,679,493.
- Bennett, Frank P., 3,644,027.
- Bennett, Frank P., 3,644,031.
- Berg, Ralph I., 3,653,772.
- Berge, Ralph I.; Young, James L.; and Ulmer, Arnold G., 3,684,373.
- Berni, Rene P.; and Grifo, Richard A., 3,689,435.
- Carluccio, Frank; and Chiddix, Max Eugene, 3,657,360.
- Catino, Sigmund C.; and Strobel, Albert F., 3,705,234.
- Chang, Charles H.; and Randall, David I., 3,655,772.
- Chang, Charles H.; and Randall, David I., 3,674,856.
- Daniels, Wiley E.; and Field, Nathan D., 3,635,914.
- De Boer, Henri G. J.; Brooshooff, Thomas; and Wemmers, Anton, 3,704,129.
- Deutsch, Albert S.; and Loprest, Frank J., 3,637,384.
- Doss, Nagib A., 3,671,281.
- Doss, Nagib A., 3,694,426.
- Eiseman, Fred S., Jr., 3,658,882.
- Eisenan, Fred S., Jr.; Schenck, Leslie Millard; and Beiswanger, John P. G., 3,686,368.
- Erb, Edward R.; and Maass, Richard L., 3,655,312.
- Fein, Marvin M.; and Barabas, Eugene S., 3,637,567.
- Field, Nathan D.; Randall, David I.; and Fitzpatrick, Jimmie D., 3,637,598.
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- Field, Nathan D.; and Williams, Earl P., 3,684,776.
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- Freyermuth, Harlan B., 3,669,979.
- Freyermuth, Harlan B.; and Field, Nathan D., 3,679,649.
- Freyermuth, Harlan B.; and Randall, David I., 3,704,243.
- Graham, David E.; Schulze, Thomas; and Fein, Marvin M., 3,681,429.
- Hall, Walter J., 3,661,451.
- Hoffstadt, Walter F., 3,646,017.
- Hort, Eugene V., 3,679,637.
- Hort, Eugene V., 3,679,645.
- Johnson, Harry B., 3,662,695.
- Komor, Joseph A., 3,704,262.
- Lorenz, Donald H.; Randall, David I.; and Copes, Joseph P., 3,635,898.
- Mackey, E. Scudder, 3,640,748.
- Mackey, E. Scudder, 3,652,283.
- Mackey, E. Scudder; and Miceli, Vincent J., 3,676,209.
- Mastroianni, Emilio G.; and Goodman, Robert C., 3,658,418.
- Matwey, Paul, 3,658,323.
- Mestetsky, Thomas S.; and Smolin, Edwin M., 3,679,623.
- Moore, Ralph G. D., 3,666,474.
- Perlinger, Hans L.; and Milazzo, Joseph S., 3,651,099.
- Plue, Arnold F.; and Katz, Leon, 3,701,769.
- Randall, David I., 3,646,141.
- Randall, David I.; and Wynn, Robert W., 3,679,780.
- Randall, David I.; and Vogel, Calvin, 3,699,195.
- Rashkin, Allyn S., 3,658,430.
- Schultz, Herman S.; Katzenstein, William; and Williams, Earl P., 3,676,408.
- Sebastian, Allison, 3,659,862.
- Smith, Edward A.; and Baldwin, Arnold V., 3,640,392.
- Stahl, Clarence Richard, 3,661,531.
- Stanley, Lester N.; and Farris, Russell E., Jr., 3,666,746.
- Streck, Clemens, 3,635,652.
- Streck, Clemens, 3,679,353.
- Strobel, Albert F.; and Catino, Sigmund C., 3,644,466.
- Strobel, Albert F.; and Whitehouse, Maynard L., 3,704,293.
- Sullivan, Frank, 3,637,494.
- Szymer, Oleg, 3,635,551.
- Szymer, Oleg; and Bennett, Frank P., 3,644,892.
- Szymer, Oleg; and Shim, Norman, 3,672,757.
- Unangst, Richard E., 3,636,807.
- Vogel, Calvin, 3,692,567.
- Vogel, Calvin; and Randall, David I., 3,705,215.
- Vogel, Calvin, 3,705,217.
- Williams, Sumner H., 3,648,488.
- Yao, Shi-Kuang, 3,663,211.
- Yao, Shi-Kuang, 3,687,946.
- Gafa, Salvatore: See—
- Bressan, Giancarlo; and Gafa, Salvatore, 3,635,657.
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Chernow, Gary Allen; and Gail, Hyman, 3,655,959.
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Traber, Walter; Margot, Alfred; and Gailay, Jean-Jacques, 3,676,561.
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Agnew, Frank R.; Byrne, Francis P.; Kaczmarek, Thomas D.; Kriege, Owen H.; Gainer, Gordon C.; and Luck, Russell M., 3,689,224.
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Angus, Hamish Carmichael; and Gainsbury, Peter Edward, 3,679,607.
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Blakeslee, Byron Edward; Gajewski, Thaddeus Joseph; and Ishida, Akio, 3,649,474.
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Bridgeman, Richard C.; and Gajewski, Wieslaw, 3,664,177.
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Muto, Hidehiko, 3,634,968.
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Kolozsvari, Zoltan; and Gal, Endre, 3,705,058.
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Kollonitsch, Janos; and Gal, George, 3,666,838.
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Saccardo, Pietro; Trada, Gianni; Galastri, Maurizio; and Herzenberg, Jean, 3,637,637.
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Hoffmann, Norbert H., 3,646,547.
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Parke, Harry G., 3,656,046.
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Thoma, Jean Ulrich; and Galdabini, Renzo, 3,656,409.
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Mitchell, Allen F., 3,649,239.
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United States of America, National Aeronautics and Space Administration, 3,632,923.
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Baker, Peter John; Gale, Graham John; and Jacobs, Barry Edward Adrian, 3,693,646.
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Glyptis, Nicholas D., 3,682,700.
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Foster, Daniel S., 3,646,934.
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Foulard, Jean; and Galey, Jean, 3,689,048.
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Barnett, Allen M.; Galginitis, Simeon V.; and Heumann, Frederick K., 3,703,656.
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Skulsky, Jury Valentinovich; Boretzky, Vasily Grigorievich; Sakharov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievich; Schukin, Pavel Ivanovich; Danilki, Ivan Petrovich; Zelensky, Vladimir Filipovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgamovich; and Sokirko, Vasily Andreevich, 3,657,962.
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Anderson, Raymond P.; and Galiano, Francis R., 3,644,571.
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Potts, John T.; Lange, Lawrence H.; and Liss, Thomas P., 3,647,066.
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- Galina, Nisonovna Budnitskaya: See—
Bekhtle, Georgy Alexandrovich; Myasnikov, Nikolai Fedorovich; Mitrofanov, Jury Eremeevich; Berestov, Evgeny Stepanovich; Kauvasinsky, Albert Frantsevich; Leibson, Mark Lazarevich; and Derkach, Viktor Gershovich, 3,690,454.
- Galinato, John S.: See—
Beinhocker, Gilbert D.; and Galinato, John S., 3,654,392.
- Galinke, Joachim: See—
Elmar, Reinwald; and Galinke, Joachim, 3,707,465.
- Reinwald, Elmar; and Galinke, Joachim, 3,707,466.
- Stimberg, Hans-Joef; Galinke, Joachim; and Schmadel, Edmund, 3,691,082.
- Wegemund, Bernd; and Galinke, Joachim, 3,642,750.
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Lanning, William C.; and Gall, James W., 3,658,129.
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Berger, Herbert; Gall, Rudi; Merdes, Hartmut; Stach, Kurt; Voemel, Wolfgang; and Sauer, Winfriede, 3,704,301.
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- Gall, William: See—
Fernald, Herbert B.; Gall, William; and Hay, Russell G., 3,641,191.
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Peter, Richard; and Gallacchi, Erico, 3,637,708.
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Fowler, Neal V., Jr.; Gallagher, Arthur P.; and Chance, Calvin L., Jr., 3,702,644.
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Corcoran, Vincent J.; Cupp, Richard E.; and Gallagher, James J., 3,689,851.
- Neth, Richard M.; Rogers, John M.; and Gallagher, James J., 3,672,011.
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Wallenstein, Mihaly, 3,665,230.
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Brewer, John C., 3,660,038.
Brewer, John C., 3,706,289.
- Garbarini, Victor Charles: See—
Corby, William Joseph; Garbarini, Victor Charles; and White, Malcolm Lunt, 3,673,099.
- Garbark, Roman F.: See—
Gottlieb, Alvin J.; Neyens, Wayne E.; Smith, Robert T.; and Garbark, Roman F., 3,675,927.
- Garbe, Andreas: See—
Irmischer, Klaus; Cimbollek, Gerhard; Wahlig, Helmut; Karl-Otto; Nowak, Herbert; and Garbe, Andreas, 3,637,666.
- Garbe, Hermann K. Collapsible containers. 3,659,737, 5-2-72, Cl. 217-12.
- Garbe, Horst: See—
Nagel, Horst; Thumm, Wilhelm; Garbe, Horst; Dailey, William H.; Goedeke, Egon; and Dadazynski, Rolf, 3,704,088.
- Garbe, Siegfried: See—
Vincent, Conway; and Garbe, Siegfried, 3,688,339.
- Garbe, William F., to Eastman Kodak Company. Fusing device. 3,649,808, 3-14-72, Cl. 219-216.
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Wood, Robert E., 3,679,123.
- Garber, Alexander. Golf course. 3,671,042, 6-20-72, Cl. 273-176.0ab.
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- Garbin, Albert: See—
Marzocchi, Alfred; and Garbin, Albert, 3,660,974.
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- Garboushian, Vahan, to TRW Inc. Packaging structure for high frequency semiconductor devices. 3,649,872, 3-14-72, Cl. 317-234.
- Garbrecht, William L., to Lilly, Eli, and Company. Cephalixin synthesis. 3,632,850, 1-4-72, Cl. 260-243.
- Garbuzov, Vladimir Mikhailovich: See—
Chelnokov, Ivan Ivanovich; Garbuzov, Vladimir Mikhailovich; Koshelev, A. Vladimir; Levit, Georgy Mikhailovich; Maltsev, Albert Alexandrovich; and Myachev, Vladimir Fedorovich, 3,701,402.
- Garbuzov, Zalman Eremeevich: See—
Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
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- Garceau, William J., to Western Electric Company, Incorporated. Method for sealing glass to metal. 3,631,589, 1-4-72, Cl. 29-588.
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Handler, Elliot; Beasley, Noel F.; Garcia, Armando J.; and May, Richard L., 3,699,712.
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Bok, Hendrik F.; and Garcia, David A., 3,653,594.
- Garcia, Felipe G.: See—
Bahder, George; and Garcia, Felipe G., 3,684,958.
Bahder, George; and Garcia, Felipe G., 3,707,674.
- Garcia, George E.: See—
Eaton, Earl V., 3,638,960.
Eaton, Earl V., 3,652,102.
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Bloom, Stanley M.; and Garcia, Paulina P., 3,691,161.
- Garcia, Ralph. Hair trimming device. 3,654,699, 4-11-72, Cl. 30-133.
- Garcia, Raymond T.: See—
Breithaupt, John T.; and Garcia, Raymond T., 3,692,111.
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Bredoux, Francois-Jean-Marie; and Garcia, Rene Fernand Pierre, 3,661,574.
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- Garcia-Rivera, Francisco: See—
Cancel, Luis E.; Rivera-Ortiz, Jose Manuel; and Garcia-Rivera, Francisco, 3,647,062.
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- Garde, Douglas: See—
Martin, Edward Albert; and Garde, Douglas, 3,699,458.
- Gardel, Robert; Gorsky, Egon; and Turshen, Richard S., to Dollac Division, Jacoby-Bender, Inc. Winking and blinking doll eyes and actuation therefor. 3,636,653, 1-25-72, Cl. 46-118.
- Gardel, Robert; and Gorsky, Egon, to Mattel, Inc. Doll with leg kick action. 3,641,702, 2-15-72, Cl. 46-120.
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- Garden City Envelope Company: See—
Dohnalik, Joseph J., 3,635,128.
- Garden Island Helicopters, Inc.: See—
Harter, Charles G., 3,682,418.
- Gardenier, Hugh E., to Aronetics, Inc. Process and apparatus for cleaning and pumping contaminated industrial gases. 3,704,570, 12-5-72, Cl. 55-84.000.
- Gardi, Rinaldo: See—
Ercoli, Alberto; Gardi, Rinaldo; and Romano, Casatenovo, 3,646,013.
Ercoli, Alberto; Gardi, Rinaldo; Vitali, Romano; and Falconi, Giovanni, 3,649,620.
Ercoli, Alberto; and Gardi, Rinaldo, 3,691,214.
Ercoli, Alberto; and Gardi, Rinaldo, 3,694,471.
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- Gardiner, John Brooke: See—
Engel, Lawrence J.; and Gardiner, John Brooke, 3,663,323.
- Gardiner, Kenneth W.: See—
Wong, Peter J.; Ross, Dale W.; and Gardiner, Kenneth W., 3,689,788.
- Gardiner, Sidney David: See—
Bennett, Michael Camm; and Gardiner, Sidney David, 3,669,620.
- Gardinette GmbH, Firma: See—
Schmitz, Rudolf; and Baier, Franz, 3,684,608.
- Gardlund, Zachariah G.: See—
White, Ronald E.; and Gardlund, Zachariah G., 3,652,379.
- Gardner, Arthur William: See—
Barker, Geoffrey Cecil; Gardner, Arthur William; and Pope, Anthony Gerald, 3,644,824.
- Gardner, Barrie: See—
Tucker, William M.; Gardner, Barrie; and Hayford, John W., 3,647,646.
- Gardner, Brian C., to Courtaulds Limited. Flame-retardant regenerated cellulose filaments. 3,645,936, 2-29-72, Cl. 260-9.
- Gardner, Charles R.: See—
Johnson, Jay; and Gardner, Charles R., 3,650,434.
- Gardner, Danny J.: See—
Patton, Frank J., Jr.; and Gardner, Danny J., 3,678,578.
- Gardner, Dayne G.: See—
Keller, Michael I.; and Gardner, Dayne G., 3,641,276.
- Gardner, Donald: See—
Blance, Robert B.; and Gardner, Donald, 3,632,412.
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- Gardner, Donald J. Vehicle headlight switch with time delay. 3,701,904, 10-31-72, Cl. 307-10.0bp.
- Gardner, Donald M.: See—
Blance, Robert B.; and Gardner, Donald M., 3,632,413.
- Gardner, Earl William: See—
Withrow, James Bruce; and Gardner, Earl William, 3,704,765.
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Hubach, Louis E.; and Gardner, Edgar E., 3,666,277.
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- Gardner, Gary A.: See—
Winter, Phillip M.; and Gardner, Gary A., 3,638,464.
- Gardner, George, to Amchem Products, Inc. Composition and method for inhibiting acid attack of metals. 3,668,137, 6-6-72, Cl. 252-149.
- Gardner, Horace L.: See—
Dunne, Maurice J.; Engelberger, Joseph F.; Gardner, Horace L.; and Lindbom, Torsten H., 3,661,051.
- Gardner, Irving. Device for measuring the ring size of a finger. 3,639,995, 2-8-72, Cl. 33-179.
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- Gardner, John A., Jr.: See—
Beatenbough, Paul K.; and Gardner, John A., Jr., 3,658,243.
- Gardner, John C., to Fenner, J. H., & Co. Limited. Method of bonding elastomeric materials. 3,657,048, 4-18-72, Cl. 156-331.
- Gardner, John D.: See—
Wedel, Carroll J.; and Gardner, John D., 3,652,663.
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Farrand, Weston B.; Gardner, John N.; and Valenti, Robert M., 3,686,934.
- Gardner, Karl A.: See—
Creek, Ronald B.; and Gardner, Karl A., 3,662,718.
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Hale, Neville E.; and Gardner, Kenneth, 3,638,601.
- Gardner, Lawrence J.; and Cochren, Donald R., to Protective Pads, Inc. Protective body pad. 3,640,831, 2-8-72, Cl. 161-92.
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Sylvester, James L., 3,651,741.
- Gardner, Madison J.: See—
Foley, Alan J.; and Gardner, Madison J., 3,671,204.
- Gardner, Nelson C.: See—
Angus, John C.; and Gardner, Nelson C., 3,661,526.
- Gardner, Newell John. Internal peening tool. 3,648,510, 3-14-72, Cl. 72-399.
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- Gardner, Peter Lycett: See—

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- Gardner, Ray E., to Eastman Kodak Company. Ultrasonic film splicing apparatus. 3,647,599, 3-7-72, Cl. 156-502.
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- Gardner, Ronald D.: See—
Smith, Joseph B.; and Gardner, Ronald D., 3,685,545.
- Gardner, Sheldon: See—
Graham, Walton; Gardner, Sheldon; and Cabot, John, 3,657,693.
- Gardner, Strong K.: See—
Kober, Ehrenfried H.; Schnabel, Wilhelm J.; and Gardner, Strong K., 3,635,947.
- Gardner, Thomas S.: See—
Schoendorfer, George F.; Morschhauser, Roger J.; Gardner, Thomas S.; and Thompson, Donald L., 3,655,539.
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- Gardner, Willis W.: See—
Koons, Harold O.; Pautz, Donald W.; and Gardner, Willis W., 3,653,350.
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- Gardner, Willis W., to Borg-Warner Corporation. Bearing and lubrication means. 3,685,617, 8-22-72, Cl. 184-6.280.
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Baker, William J.; and Hurst, Richard J., 3,675,861.
- Council, Malcolm N., 3,664,439.
- Coyne, Merton W.; and Palauro, Dieter K., 3,640,351.
- Hanson, Laurence B.; and Arthur, Wallace W., 3,666,025.
- Hanson, Laurence B.; and Arthur, Wallace W., 3,669,197.
- Hanson, Laurence B.; and Arthur, Wallace W., 3,670,826.
- Hayes, Roy J., 3,635,299.
- Mayer, James R.; and Tipton, Joe D., 3,680,412.
- Nelson, Arvid L.; and Seckman, John E., 3,632,237.
- Nelson, Arvid L.; and Cirincione, Gilbert, 3,653,191.
- Palauro, Dieter K.; and Mayer, James R., 3,697,113.
- Sorensen, Clarence A.; and Deremo, Edwin J., 3,700,363.
- Stillwagon, George B., Jr., 3,667,518.
- Workman, William, Jr., 3,633,875.
- Workman, William Jr.; Boeger, James H.; and Bishop, Robert E., 3,657,964.
- Gardon, Robert: See—
Akfirat, John C.; and Gardon, Robert, 3,694,182.
- Gardone, Anthony J.: See—
Snelling, Christopher; and Gardone, Anthony J., 3,643,964.
- Garduna, Gerald G. Modular container panel. 3,692,201, 9-19-72, Cl. 217-12.000.
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Comte, Bernard Michel; and Gareaux, Jean-Marie Louis Philippe, 3,635,281.
- Garchime, Jacob W., Jr. Cavity head screw and driving tool therefor. 3,695,321, 10-3-72, Cl. 145-50.000.
- Garlick, Herbert J., to Garelick Mfg. Co. Self-loading dolly. 3,667,728, 6-6-72, Cl. 254-8.00r.
- Garelick Mfg. Co.: See—
Garlick, Herbert J., 3,667,728.
- Garen, Eric R.: See—
Beard, Terry D.; and Garen, Eric R., 3,697,675.
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Segur, Donald L.; and Garey, Harold E., Jr., 3,652,508.
- Garfein, Andre: See—
Rindner, Wilhelm; Iannini, Americo; and Garfein, Andre, 3,686,542.
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Brown, Dale M.; and Garfinkel, Marvin, 3,640,782.
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- Garin, Jose Ignacio Martinez: See—
Sejournet, Jacques; and Garin, Jose Ignacio Martinez, 3,698,070.
- Garin, Paul V.: See—
Jackle, William M.; Garin, Paul V.; Thomford, William E.; Greb, Wallace M.; and Udalloff, Nicholas N., 3,661,098.
- Garis, Eric Vernon: See—
Holland, Dewey G.; and Garis, Eric Vernon, 3,683,036.
- Garkan, Herschal F.: See—
Patterson, David D., 3,689,099.
- Garland, Carl C., to Parke, Davis & Company. Rectifying means. 3,670,865, 6-20-72, Cl. 198-33.0aa.
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- Garland Manufacturing Company: See—
Garland, Theodore F., 3,695,430.
- Garland, Milton W., to Frick Company. Gravity refrigerant recirculation. 3,643,460, 2-22-72, Cl. 62-174.
- Garland, Milton W.; and Schaeffer, Bruce S., to Frick Company. Controlled refrigeration application to a metallic conveyor belt. 3,664,149, 5-23-72, Cl. 62-201.000.
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Howes, Leslie D., 3,702,594.
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- Garland, Thomas H.: See—
Yamada, Yoshikazu; and Garland, Thomas H., 3,650,755.
- Garland, Wade H., Jr.: See—
Pinner, Champ D.; Sligh, Cecil E.; Diehl, James J.; and Garland, Wade H., Jr., 3,648,163.
- Garlick, George F., to Holosonics, Inc., mesne. Geological mechanical computer. 3,673,688, 7-4-72, Cl. 33-1.000.
- Garlinghouse Brothers Manufacturing Co.: See—

- Denning, Robert D.; and Garlinghouse, Leslie H., 3,673,931.
- Garlinghouse, Leslie H.: See—
Denning, Robert D.; and Garlinghouse, Leslie H., 3,673,931.
- Garlington, William Drake: See—
Golike, Ralph Crosby; Ostapchenko, George Joseph; and Garlington, William Drake, 3,663,662.
- Garlock Inc.: See—
Clark, Norman E., 3,636,824.
- Clary, Michael J., 3,645,820.
- Dickason, Ronald K., 3,661,166.
- Houghton, George E.; and Dixit, Sudhakar G., 3,646,846.
- Garlock, Inc, mesne: See—
Kirkland, Kenneth C. Jr., 3,695,098.
- Garmaise, David L.: See—
Paris, Gerard Y.; and Garmaise, David L., 3,654,289.
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Bernstein, Edith; Garmaise, David Lyon; and Plotnikoff, Nicholas Peter, 3,687,960.
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- Garnier, Roger, to Rhone-Poulenc S.A. Painting moist plaster. 3,632,394, 1-4-72, Cl. 117-72.
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Hawk, George W.; Geyer, Lewis H.; Mastropole, Alfred J.; and Garnjost, Kenneth D., 3,646,762.
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- Burch, Darrel W.; and Jacomet, Arthur H., 3,638,774.
- Early, James R.; Eyring, William M.; McGrath, Donald W.; and Takenaka, Toshio, 3,685,139.
- Erwin, John R., 3,694,104.
- Fitzgibbon, Thomas F., 3,693,761.
- Frederick, Gary L., 3,707,440.
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Carpenter, Austin T.; Garrington, Roy; and Harrison, Keith W., 3,658,939.
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Morkoski, James; and Garriott, Louis B., Jr., 3,698,486.
- Garriques, Alfred L.: See—
Cvacho, Daniel S.; Fastabend, Patrick A.; Garriques, Alfred L.; and Jensen, Eric L., 3,698,593.
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Seaton, William Joe; and Pratt, Arnold T., 3,665,462.
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Kornahrens, Herman, 3,648,720.
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Habian, George; and Franklin, Edwin, 3,648,316.
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Quintana, Ronald P.; Garson, Lorrin R.; and Lasslo, Andrew, 3,668,226.
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Coco, Charles E.; and Garszczynski, Suzanne M., 3,645,768.
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Riley, George A.; and Gartland, Albert J., Jr., 3,685,007.
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Jung, Karl-Heinz; and Gartner, Klaus-Gunther, 3,700,641.
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Snedeker, Robert Howard; Garty, Kenneth Thomas; and Skiermont, Frank Joseph, 3,666,614.
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Williams, Richard E.; and Gartzke, Fred J., 3,649,920.
- Garven, Ernest H. Cymbal attachment. 3,677,127, 7-18-72, Cl. 84-402.000.
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Davis, Leonard A., 3,645,218.
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Winston, Ronald H.; Schultz, Stephen; and Garvey, Thomas Q., III, 3,657,056.
- Garvin, Donald F.: See—
Sedliar, Ronald M.; Garvin, Donald F.; and Aepli, Otto T., 3,650,964.
- Garvin, Hugh L.: See—
Zimmerman, Robert L.; Schweitzer, Bernard P.; Garvin, Hugh L.; Pedinoff, Melvin E.; and Waldner, Michael, 3,668,662.
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Chen, Nai Yuen; Lucki, Stanley J.; and Garwood, William E., 3,700,585.
- Garwood-Mendez Inc.: See—
Mendez, Robert W., 3,684,157.
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Fuchs, Bernard; and Gary, Christian, 3,683,174.
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Wilson, John I.; and Gary, Wardell, 3,697,810.
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de Sandre, Giovanni; and Garziera, Gastone, 3,641,329.
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Howard, David Campbell, 3,700,270.
- Lacey, John Aldwyn, 3,660,276.
- Nicklin, Thomas; Farrington, Frederick; and Houghton, James, 3,639,648.
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- Nicklin, Thomas, 3,701,811.
- Nicklin, Thomas, 3,704,095.
- Oeppen, Brian; Edmondson, John; and Sourbutts, Stanley, 3,695,816.
- Thompson, Brian Hoyle, 3,642,460.
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Kotting, Fritz; and Gas, Gottfried, 3,665,659.
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- Gascon, Jean: See—
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- Gasiowski, Roman J., to AMF Incorporated. Fender flaring apparatus. 3,672,198, 6-27-72, Cl. 72-215.
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- Gaskell, Philip Hedley; and Lowe, Derek, to Pilkington Brothers Limited. Detection of faults in transparent material using lasers. 3,652,863, 3-28-72, Cl. 250-219.
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- Gasparaitis, Bernardas, to Sunbeam Corporation. Radiant heater with means for reducing sag of the electrical heating element. 3,632,981, 1-4-72, Cl. 219-377.
- Gasper, Kenneth A., to McDonnell Douglas Corporation. Means of measuring temperature and neutron flux. 3,638,018, 1-25-72, Cl. 250-83.1.
- Gasper, Ralph L.; and Riordan, Donald E., to Bimba Manufacturing Company. Magnetic switch mounting means for a fluid motor unit. 3,639,868, 2-1-72, Cl. 335-205.
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Gass, Sadie. Drapery hanger. 3,633,251, 1-11-72, Cl. 24-84.
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Gass, Sadie. Drapery measuring device. 3,645,000, 2-29-72, Cl. 33-137.
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Bloch, Rene A.; Furmansky, Mordechai; and Gassner, Saul, 3,700,576.
Gasson, Edward James: *See*—
Ball, William John; and Gasson, Edward James, 3,670,017.
Barclay, John Lynn; Gasson Edward James; and Hadley, David James, 3,681,421.
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Ondraka, Joseph A., 3,658,350.
Gast, Richard A.; and Mitchell, Harry R., to General Motors Corporation. Exhaust emission control system. 3,653,212, 4-4-72, Cl. 60-293.
Gast, Stewart P. Vehicle. 3,650,239, 3-21-72, Cl. 115-39.
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Beane, David J.; and Gastler, John H., 3,698,186.
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Wardell, Winnifred A., 3,684,082.
Gaston, Donald H.: *See*—
Cerveny, Daniel H.; Johnson, Perry T.; and Gaston, Donald H., 3,704,025.
Gaston-Breton, Hubert: *See*—
Kalopissis, Gregoire; Bugaut, Andree; and Gaston-Breton, Hubert, 3,649,160.
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Kalopissis, Gregoire; Gascon, Jean; Bugaut, Andree; Gallien, Jacqueline; and Gaston-Breton, Hubert, 3,697,215.
Gastrock, William Henry: *See*—
Asato, Goro; Berkelhammer, Gerald; and Gastrock, William Henry, 3,649,638.
Gastrock, William Henry, to American Cyanamid Company. Substituted nitroimidazoles and methods of preparing the same. 3,634,447, 1-11-72, Cl. 260-309.
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Avrillon, Rene; Franckowiak, Sigismond; Gatellier, Claude; and Glikmans, Georges, 3,698,998.
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Stearns, Richard S.; Duling, Irl N.; and Gates, David S., 3,676,521.
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Porter, Ralph Frederick; Schwan, Judith A.; and Gates, John W., Jr., 3,639,417.
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Corey, Philip D., 3,671,846.
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Lent, William E.; and Gates, Louis E., Jr., 3,632,961.
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Gates, Peter Stuart; Gillon, John; and Siggers, David Thomas, to Fisons Limited. 2-Organoyloxy-2,3-dihydro-5-benzofuranyl esters of alkyl sulfonic acids. 3,689,507, 9-5-72, Cl. 260-346,200.
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Swanson, Hilmer L., 3,643,161.
Gates, Robert B. Harrow tooth attachment. 3,631,929, 1-4-72, Cl. 172-643.
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Gates Rubber Company, The: *See*—
Bitzer, Richard R.; and Reichard, William H., 3,694,413.
Bixler, William L.; and Voss, Harold C., 3,696,511.
Devitt, John L.; and McClelland, Donald H., 3,669,746.
Kesinger, Donald, 3,698,131.
Nichols, Kenneth E., 3,692,373.
Stark, Robert E.; and Uba, Toshio, 3,706,617.
Stuemky, Robert E., 3,677,109.
Gates, Wilbur C., to General Electric Company. Molten metal dispensing equipment. 3,663,730, 5-16-72, Cl. 13-33.
Gatewood, John R.: *See*—
Maserjian, Joseph; and Gatewood, John R., 3,676,754.
Gathman, Albert; and Gleim, George W., to Esso Research and Engineering Company. Lubricant for textile machinery. 3,676,342, 7-11-72, Cl. 252-18,000.
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Stringer, Philip Roland; and Gatland, Eric Charles, 3,644,931.
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Gatos, Harry C.: *See*—
Platakis, Nicholas S.; Gatos, Harry C.; and Witt, August F., 3,689,242.
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Gattesco, Giovanni, to Tesa S.A. Dial-type measuring instruments. 3,661,027, 5-9-72, Cl. 74-411.
Gatti, Alvaro: *See*—
Tarducci, Tullio; Gatti, Alvaro; and Buffa, Antonio, 3,701,541.
Gatti, Anthony R., to Shell Oil Company. Sulfide precipitated catalysts. 3,686,137, 8-22-72, Cl. 252-437,000.
Gatti, Arno: *See*—
Higgins, John B.; and Gatti, Arno, 3,668,006.
Gatti, Fernando: *See*—
Stradella, Giuseppe; Stradella, Umberto; Daniele, Giuliano; and Gatti, Fernando, 3,648,324.
Gatti, Joseph. Football boots. 3,703,775, 11-28-72, Cl. 36-2,5ag.
Gatti, Recco: *See*—
Stradella, Giuseppe; Stradella, Umberto; Daniele, Giuliano; and Gatti, Recco, 3,707,089.
Gattiker, David Cyril George: *See*—
Binns, Thomas David; and Gattiker, David Cyril George, 3,635,803.
Gatts, James D. Method and apparatus for dynamic health testing evaluation and treatment. 3,675,640, 7-11-72, Cl. 128-2,05r.
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Gatwood, Robert K., to International Telephone and Telegraph Corporation. Short duration high current pulse generator. 3,665,222, 5-23-72, Cl. 307-283.
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Kosel, Christian; Hartmann, Adolf; and Gatys, Gerhard, 3,654,237.
Gatza, Eugene M.: *See*—
Mogelnicki, Stanley; and Gatza, Eugene M., 3,652,479.
Gatzi, Karl: *See*—
Bader, Jorg; and Gatzi, Karl, 3,636,222.
Bader, Jorg; and Gatzi, Karl, 3,651,234.
Bader, Jorg; and Gatzi, Karl, 3,657,437.
Bader, Jorg; and Gatzi, Karl, 3,659,010.
Bader, Jorg; and Gatzi, Karl, 3,676,459.
Gubler, Kurt; Menasse, Raphael; and Gatzi, Karl, 3,692,909.
Menasse, Raphael; and Gatzi, Karl, 3,697,589.
Weis, Claus Dieter; and Gatzi, Karl, 3,705,195.
Weis, Claus Dieter; and Gatzi, Karl, 3,705,251.
Gatzi, Karl, to Ciba-Geigy Corporation. 2-Amino-azacyclotridecenes. 3,634,401, 1-11-72, Cl. 260-239.
Gauch, George J.: *See*—
Juodis, Alter; and Gauch, George J., 3,685,297.
Gaucher, Clair H.: *See*—
Forance, Ronald B.; Madden, William F.; and Gaucher, Clair H., 3,679,125.
Gaucher, Michel: *See*—
Neel, Emmanuel E. A.; Gaucher, Michel; and Clement Claude J., 3,684,695.
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Gauchet, Yves M., to Societe Anonyme Poclair. Earth-working machines. 3,664,528, 5-23-72, Cl. 214-138,00r.
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Gauck, Herbert M. Gas vapor device. 3,696,799, 10-10-72, Cl. 123-136,000.
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Gaudfrin, Guy. Filtering installation. 3,682,306, 8-8-72, Cl. 210-96,000.
Gaudiano, Anthony V.: *See*—
Banjavich, Mark P.; Morrissey, George R.; and Gaudiano, Anthony V., 3,641,777.
Gaudin, Jean, to Societe de Constructions Mecaniques de Creil. Braking device for use in winding multiple strips upon a common mandrel. 3,666,195, 5-30-72, Cl. 242-75,2.
Gaudin, Jean Joseph, to LABAZ. Balance for blood bag. 3,698,494, 10-17-72, Cl. 177-118,000.
Gaudreau, Laurent R.; and McDowell, Floyd E., to McCord Corporation, mesne. Apparatus for molding and curing foamed articles. 3,680,629, 8-1-72, Cl. 165-26,000.
Gaudry, Edouard: *See*—
Gaudry, Paul E.; Gaudry, Edouard; Descarries, Raymond; and Anderson, James, 3,631,559.

Gaudry, Paul E.; Gaudry, Edouard; Descarries, Raymond; and Anderson, James, 3,673,628.
Muller, Johannes; and Gaudry, Edouard, 3,631,565.
Gaudry, Paul E.; Gaudry, Edouard; Descarries, Raymond; and Anderson, James, 3,631,559, 1-4-72, Cl. .
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Gaudry, Paul Emile. Rotary brush adjustment device for vacuum cleaner attachment. 3,671,996, 6-27-72, Cl. 15-368,000.
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Gauger, Edward A.: *See*—
Sekmakas, Kaxys; Gauger, Edward A.; and Henning, Lester A., 3,650,998.
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Gaugher, Robert R.: *See*—
Denhard, Elbert E., Jr.; and Gaugh, Robert R., 3,645,725.
Gaugher, Wilbur S., to Eastman Kodak Company. Photographic silver halide emulsions containing a cyanine dye containing at least one 1-cyanoalkyl-2-erylindole nucleus. 3,687,675, 8-29-72, Cl. 96-101,000.
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Gaughan, Edmund J., to Stauffer Chemical Company. Certain thiophosphonamides as insecticides and acaricides. 3,636,206, 1-18-72, Cl. 424-219.
Gaul, Albro T.: *See*—
Casson, Edward A., Jr.; Gaul, Albro T.; Langlais, Eugene L.; Shadlen, Gerald; and Vanaver, Eugene L., 3,658,662.
Gaul, James M.: *See*—
Benkeser, Robert A.; and Gaul, James M., 3,699,143.
Gaul, Robert G., to Paragon Wire & Cable Corporation. Lubricating system for braiding machines. 3,640,176, 2-8-72, Cl. 87-33.
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Unick, Alvin J.; and Gault, Kenneth W., 3,676,348.
Gault, Robert H., to Bethlehem Steel Corporation. Oil well pumping unit having traveling stuffing box. 3,640,342, 2-8-72, Cl. 166-72.
Gault, Robert H.; and Joy, Robert F., to Bethlehem Steel Corporation. Polished rod liner extension. 3,662,829, 5-16-72, Cl. 166-84.
Gaum Myron G.: *See*—
Wald, Milton M.; and Gaum Myron G., 3,700,633.
Gaumer, Lee S., Jr.; and Newton, Charles L. Process for liquefying natural gas employing a multi-component refrigerant for obtaining low temperature cooling. 3,645,106, 2-29-72, Cl. 62-9.
Gaumont, Richard J. Vehicle towing device. 3,690,482, 9-12-72, Cl. 214-86,00a.
Gaunt, Dennis: *See*—
Challenger, Frederick Raymond; Swanwick, Barry Frederick; Cotton, Cyril Ivan; and Gaunt, Dennis, 3,656,322.
Gaunt, Jack R. Fishing lure flasher. 3,656,253, 4-18-72, Cl. 43-42,33.
Gaunt, Thomas Norman; and Dodsworth, Edward, to Plastona (John Waddington) Limited. Apparatus for sealing thin walled containers. 3,645,825, 2-29-72, Cl. 156-361.
Gauri, Kailash Kumar, to Robugen G.m.b.H. 5-Benzyl-(2'-desoxy-ribose) uracil compounds, compositions containing same, and process of making and using same. 3,642,771, 2-15-72, Cl. 260-211,5.
Gause, Kermit: *See*—
Showalter, Guy M.; Schroeder, Harry C.; and Gause, Kermit, 3,632,717.
Gause, Smith A., to Westinghouse Electric Corporation. Oxide-free multi-layer copper clad laminate. 3,644,166, 2-22-72, Cl. 161-89.
Gausewitz, Carr & Rothenberg: *See*—
Kuechler, Irvin R., 3,664,255.
Gauss Electrophysics, Inc.: *See*—
Broadbent, Kent D., 3,687,664.
Gauthier, Charles; and Vincent, Jean-Marie, to CTA-Compagnie Industrielle de Textiles Artificiels et Synthetiques. Man-made filament spinneret and extruder head. 3,667,886, 6-6-72, Cl. 425-192.
Gauthier, Gerard: *See*—
Charbonnier, Gerard; and Gauthier, Gerard, 3,680,072.
Gauthier, Oscar, to Ciebel Inc. Tourniquet. 3,675,657, 7-11-72, Cl. 128-327,000.
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- Gautney, George E.; Johnson, Rowland S.; and Piombino, John, 3,684,965.
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- Blanchard, Eugene J.; Gautreaux, Gloria A.; and Harper, Robert J., Jr., 3,702,230.
- Harper, Robert J., Jr.; Bruno, Joseph S.; and Gautreaux, Gloria A., 3,676,052.
- Gautschi, Fritz: See—
- Winter, Max; Gautschi, Fritz; Flament, Ivon; Stoll, Max; and Irving, Goldman M., 3,702,253.
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- Kersch, Leonard A.; and Brown, Gordon M., 3,649,127.
- Kersch, Leonard A.; and Champagne, Edwin B., 3,690,159.
- Wells, Donald R., 3,681,970.
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- Kassat, Harry; Kissel, Ernst; and Kolenda, Herbert, 3,703,592.
- Knirsch, Hermann; and Von Cleve, Hans-H., 3,660,980.
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- Helgeland, Walter; Lazott, James B.; Duke, Philip J.; Taggart, William J.; Geacox, George W.; and Brandsma, Abe, 3,645,784.
- Geany, Gerard M.: See—
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- Johns, Earl, 3,656,344.
- Rosenthal, Wayne O., 3,642,064.
- Geary, Arthur L.: See—
- Nunes, John; Geary, Arthur L.; and Roberts, John A., 3,704,877.
- Geary, David S.: See—
- Lahrson, Allan E.; Hublou, Frank E.; Zuchowski, Richard C.; Vannucci, Robert J.; Lenox, Timothy L.; and Geary, David S., 3,633,176.
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- Busing, Walter; and Gebauer, Wolfgang, 3,691,460.
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- Martenson, Earl D.; and Gebhardt, James J., Jr., 3,678,817.
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Franz, Raymond A.; Gebhart, Herbert J., Jr.; and Montgomery, Phillip D., 3,694,518.
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Bol, Jan Paul; Gebhart, Joseph; and Seger, Gunther, 3,695,765.
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Brooks, Frank W.; and Gebhart, Norman L., 3,705,641.
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Stegmeier, Gerhard; Lenhart, Helga; Gebler, Horst; and Diener, Horst, 3,639,134.
- Gebo, Leo P., to Great Plains Bag Co. Bag. 3,648,922, 3-14-72, Cl. 229-62.5.
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Kasische, Kuno, 3,632,989.
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Holzgruber, Wolfgang; and Kleinhagauer, Otmar, 3,660,584.
Holzgruber, Wolfgang; and Kleinhagauer, Otmar, 3,693,699.
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Kleinhagauer, Otmar; Cerwenka, Peter; and Neubauer, Ewald, 3,667,538.
- Kulmburg, Alfred, 3,663,316.
- Plockinger, Erwin; Holzgruber, Wolfgang; and Schneidhofer, Adolf, 3,643,726.
- Rajakovics, Gundolf E., 3,705,734.
- Strohmeier, Harold, 3,690,513.
- Strohmeir, Harald, 3,691,692.
- Tarmann, Bruno; and Vonbank, Heinrich, 3,680,623.
- Widowitz, Herbert; and Hammer, Manfred, 3,660,882.
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Tarmann, Bruno; and Vonbank, Heinrich, 3,650,314.
- Gebr. Buhler Nachfolger GmbH: *See*—
Bauhus, Gunter; and Schmidchen, Hans, 3,665,774.
- Mieslinger, Winfried, 3,648,137.
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Klinkhammer, Karl, 3,656,405.
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Witte, Gunter, 3,691,605.
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Beck, Hansludwig; and Brandenburg, Helmut, 3,688,736.
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Frenyo, Pal; Hafer, Karl-Heinz; Karkutt, Reimund; and Pelka, Walter, 3,675,971.
- Lanfermann, Willy, 3,666,320.
- Renzing, Otto, 3,659,900.
- Gebr. Eickhoff, Maschinenfabrik und Eisengieser m.b.H.: *See*—
Weber, Karl Heinz; and Engelhardt, Horst, 3,633,081.
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Brandenburg, Helmut; and Beck, Hansludwig, 3,676,268.
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Ewe, Gerhard; Dennerlein, Hugo; Schmidt, Heinrich; Hirschmeier, Horst; and Fechter, Willi, 3,650,468.
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Rheude, Franz Gustav; Munster, Franz; and Brehmer, Harald, 3,687,714.
- Ruter, Hermann; Cherdron, Egon; Haerter, Manfred; and Bayer, Gerhard, 3,663,202.
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Nothacker, Siegfried, 3,659,865.
- Gebr. Hennig GmbH: *See*—
Neureuther, Horst, 3,680,927.
- Gebr. Hoffmann AG: *See*—
Hoffmann, Arthur W.; Locuty, Pierre; and Buhlmann, Walter, 3,660,194.
- Gebr. Isringhausen: *See*—
Sturhan, Klaus, 3,645,488.
- Gebr. Isringhausen, Firma: *See*—
Sturhan, Klaus, 3,679,166.
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Storb, Uwe; Kaiser, Herbert; and Kaiser, Gunter, 3,702,748.
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Shauer, Siegfried, 3,658,264.
- Gebruder Buhler AG: *See*—
Eggenberger, Ulrich; and Zehnder, Josef, 3,642,405.
- Eisenegger, Edwin B., 3,687,272.
- Herzog, Rene, 3,651,918.
- Muller, Roman, 3,675,697.
- Oetiker, Hans, 3,650,037.
- Oetiker, Hans, 3,693,794.
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Eggemuller, Alfred; Scherer, Lorenz; Notter, Eugen; Bellan, Heinrich; and Wagler, Werner, 3,687,061.
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Durr, Alfred W.; Gunsser, Otto; and Heller, Hubert H., 3,688,362.
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Breidenbach, Josef, 3,631,768.
- Holler, Hans, 3,655,180.
- Holler, Hans; Breidenbach, Josef; and Milles, Aloys, 3,703,590.
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Assmus, Friedrich; Flaig, Hans; Dietrich, Dieter; and Hartner, Leo, 3,644,689.
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- Jahn, Paul; and Kapp, Alfred, 3,667,326.
- Scholz, Gunter, 3,668,862.
- Scholz, Gunther, 3,673,792.
- Scholz, Gunther, 3,696,606.
- Gebruder Junghans G.m.b.H., Firma: *See*—
Assmus, Friedrich; and Ganter, Wolfgang, 3,665,271.
- Scholz, Gunther, 3,685,279.
- Gebruder Linck, Maschinenfabrik und Eisengiesserei 'Gatterlinck': *See*—
Reuter, Alfred, 3,635,267.
- Gebruder Seidel KG: *See*—
Ritzenhoff, Hermann, 3,685,678.
- Ritzenhoff, Hermann, 3,692,200.
- Gebrueder Buehler AG: *See*—
Rado, Antonio; and Tognazza, Bruno, 3,632,051.
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Beaver, Phillip R.; and Geddes, James C., Jr., 3,657,300.
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Donnelly, James F.; Gee, Wendell P.; and Phipps, Nelson S., 3,701,286.
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Sedley, Bruce S., 3,705,277.
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Lin, Kingso C.; and Geering, Emil J., 3,655,423.
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Kleinwachter, Hans; and Geerk, Jens, 3,638,536.
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Drabert, Fritz; and Geffers, Klaus, 3,653,715.
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Ueltschi, Odette, 3,635,179.
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Schmidt, Karl, 3,652,878.
- Schmitt, Karl, 3,660,695.
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Fleming, Philip F., 3,643,767.
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Hertel, Hasso; Gehre, Kurt; Lowenfeld, Rudolf; and Kosubek, Uwe, 3,697,216.
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Richm, Theodor; and Gehrig, Oskar, 3,647,369.
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Hederich, Volker; and Gehrke, Gunter, 3,642,835.
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Brinkmann, Jurgen; and Gehrke, Wieland, 3,654,426.
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Sennwald, Kurt; Gehrmann, Klaus; Handte, Heinz; Hauser, Alfred; and Kohl, Georg, 3,657,332.
- Sennwald, Kurt; Hauser, Alfred; Gehrmann, Klaus; and Lork, Winfried, 3,658,886.
- Gehry, Frank O.: *See*—
Jaffe, Christopher; and Gehry, Frank O., 3,672,463.
- Geib, Randall R., to Data-Link Corporation. Tape decoder. 3,653,130, 4-4-72, Cl. 35-2.
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Vasilkovsky, Lev Fedorovich; Sjusjuk, Vladimir Efimovich; Abrosimov, Nikoloi Nikitovich; Geidebrekhov, Georgy Andreevich; Lyashenko, Vsevolod Andreevich; and Podmogilny, Vladimir Ivanovich, 3,659,642.
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Geier, Walter, 3,646,625.
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Ehrhardt, Klaus; Geiger, Georg; and Kehler, Fritz, 3,660,375.
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Athey, Stuart F.; and Geiger, Paul B., 3,707,156.
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Griffiths, Graham Ernest; Geiger, Roger Keith; and Miles, John Walter, 3,643,917.
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Jager, Georg; and Geiger, Rolf, 3,679,655.
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Anger, Ernest G.; Richards, Giles J.; Bloodgood, John F.; and Geiger, Roy J., 3,686,556.
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Bader, Jorg; and Gatzl, Karl, 3,636,222.
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- Baschang, Gerhard; Morel, Charles J.; and Wacker, Oskar, 3,651,103.
- Blattner, Hans; and Schindler, Walter, 3,636,045.
- Bohner, Beat; and Rufenacht, Kurt, 3,705,240.
- Bradley, Claude G., 3,654,447.
- Braendstroem, Arne Eloff; Carlsson, Stig Ake Ingemar; and Gagneux, Andre, 3,703,524.
- Brandstrom, Arne Eloff; Carlsson, Stig Ake Ingemar; and Gagneux, Andre, 3,646,209.
- Clarke, Frank H., Jr.; Block, Fred B.; and Kofron, William G., 3,639,407.
- Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,652,586.
- Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,673,212.

- Dexter, Martin; Spivack, John Denon; and Steinberg, David Herbert, 3,677,965.
 Dexter, Martin; and Spivack, John Denon, 3,678,095.
 Dietrich, Henri, 3,657,429.
 Doebel, Karl J.; and Gagneux, Andre R., 3,636,003.
 Fearnley, Charles; and Jones, Thomas Ivor, 3,639,290.
 Foitl, Verena R.; and Traber, Walter, 3,642,776.
 Frick, Wilhelm Ernst; Weiss, Anton G.; Wenger, Thomas; and Traber, Walter, 3,673,209.
 Frick, Wilhelm Ernst; and Wenger, Thomas, 3,686,411.
 Greenhard, Paul; and Petrack, Barbara, 3,639,622.
 Grunwaldt, Edgar, 3,679,804.
 Gubler, Kurt, 3,639,446.
 Gubler, Kurt; Meyer, Urs; and Brechbuhler, Hans Ulrich, 3,669,976.
 Gubler, Kurt; Meyer, Urs; and Brechbuhler, Hans Ulrich, 3,699,225.
 Hall, Luther A. R.; Gurney, John A.; and Renfroe, Harris B., 3,705,918.
 Hoegerle, Karl; Muller, Jean-Claude; Vogel, Christian; and Raumpf, Jurg, 3,646,136.
 Hoegerle, Karl, 3,652,543.
 Hoyle, William; and Roberts, Gordon Peter, 3,632,577.
 Jaeggi, Knut A.; and Renner, Ulrich, 3,634,421.
 Kleiner, Eduard K., 3,636,033.
 Lemaster, Howard V., 3,663,542.
 Libis, Bernard; and Habicht, Ernst, 3,651,094.
 Marand, Jean, 3,636,959.
 Marshall, Alan; and Macpherson, Anne Wilson, 3,665,073.
 Menasse, Raphael; and Gatzl, Karl, 3,697,589.
 Petersen, John Valdemar Brammer; and Clauson-Kaas, Niels, 3,663,555.
 Petersen, John Valdemar Brammer; and Clauson-Kaas, Niels, 3,663,556.
 Schindler, Walter; and Zust, Armin, 3,646,039.
 Schindler, Walter; Schmid, Erich; and Zust, Armin, 3,699,104.
 Schindler, Walter; Schmid, Erich; and Zust, Armin, 3,699,107.
 Schinkler, Walter; and Zust, Armin, 3,641,031.
 Schlumbom, Peter; and Gordon, David A., 3,635,916.
 Traber, Walter; and Weiss, Anton G., 3,634,484.
 Traber, Walter; Margot, Alfred; and Gailay, Jean-Jacques, 3,676,561.
 Troxler, Eduard; and Hausermann, Heinrich, 3,674,714.
 Tschamer, Christopher Johannes, 3,676,339.
 Urwyler, Heinrich, 3,644,395.
 Wasley, Jan W. F.; and Gruenfeld, Norbert, 3,637,710.
 Weis, Claus Dieter; and Rumpf, Jurg, 3,685,982.
 Weis, Claus Dieter; and Gatzl, Karl, 3,705,251.
 Weis, Claus Dieter; and Rumpf, Jurg, 3,707,494.
 Zergenyi, Janos; and Habicht, Ernst, 3,674,810.
 Zergenyi, Janos; and Habicht, Ernst, 3,676,560.
 Zimmermann, Markus, 3,683,082.
 Zussman, Hyman William; and Hausermann, Heinrich, 3,632,491.
 Geigy Chemical Corporation, *mesne*: See—
 Randell, Donald R., 3,642,629.
 Randell, Donald R., 3,696,851.
 Geigy, J. R., A.G.: See—
 Berrer, Dagmar; and Fankhauser, Ernst, 3,634,062.
 Boardman, George Leslie, 3,653,798.
 Bossard, Werner, 3,642,766.
 Roth, Willi; and Schenk, Otto Erwin, 3,694,545.
 Roth, Willi; and Schenk, Otto Erwin, 3,694,546.
 Geil, John H., 50% to Hinderstein & Silber and 50% to International Systems, Inc. Subsidiary document identification system. 3,662,400, 5-9-72, Cl. 444-1.
 Geil, Ronald J.: See—
 Schweitzer, Earl O.; and Geil, Ronald J., 3,684,275.
 Geil, Walter: See—
 Schippers, Heinz; Geil, Walter; Albrecht, Gerd; and Jung, Reinhold, 3,677,863.
 Geil, Walter, to Barmer Maschinenfabrik Aktiengesellschaft. Gas ejecting device for cooling extruded tubing. 3,642,394, 2-15-72, Cl. 425-72.
 Geil, Walter Remscheid-Lennep: See—
 Schippers, Heinz; Geil, Walter Remscheid-Lennep; Albrecht, Gerd; and Jung, Reinhold, 3,642,397.
 Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K., to Borg-Warner Corporation. Audio-visual educational apparatus. 3,637,221, 1-25-72, Cl. 274-9.
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 Geisel, Robert C., to Eyelet Specialty Company. Cartridge-type lip-stick container or the like. 3,653,776, 4-4-72, Cl. 401-86.
 Geisenberger, Fritz: See—
 Grimm, Gerhard, 3,682,545.
 Geiser, Edward M., to Universal Oil Products Company. Sheet material. 3,640,629, 2-8-72, Cl. 401-132.
 Geisinger, George H., to Eisenberg, Alfred and Eisenberg, Henry. Handle for packages or the like. 3,657,765, 4-25-72, Cl. 16-114.
 Geisler, Heinz, to Merit-Werk Merten & Co. KG. Lock construction. 3,648,493, 3-14-72, Cl. 70-375.
 Geisler, Henry O.: See—
 Varrin, Andre J.; McCarter, William L.; and Geisler, Henry O., 3,667,793.
 Geisler, Martin J.: See—
 Driver, Michael C.; and Geisler, Martin J., 3,675,313.
 Geisler, Raymond E.; Hull, Leroy E.; and Kirschbaum, Michael E. Sound-type detection system. 3,647,974, 3-7-72, Cl. 179-5.
 Geisler, Robert L. Non-destructive testing device for the detection of flaws in solid rocket motors. 3,662,592, 5-16-72, Cl. 73-104.
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 Geisler, Roland: See—
 Gernscheid, Hans Gunther; and Geisler, Roland, 3,657,077.
 Geisler, Roland; and Gernscheid, Hans, to Henkel & Cie G.m.b.H. Process for the treatment of anodic oxidized aluminum surfaces. 3,672,966, 6-27-72, Cl. 204-35.00n.
 Geisler, Roland; Jansen, Georg; and Gernscheid, Hans Gunther, to Henkel & Cie G.m.b.H. Process for cleaning aluminum. 3,687,858, 8-29-72, Cl. 252-156.000.
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 Geisow, Bernard H., to Daniel Industries, Inc. Gas turbine meter. 3,695,106, 10-3-72, Cl. 73-231.00r.
 Geissler, Robert G.: See—
 Crowe, William J.; and Geissler, Robert G., 3,646,466.
 Geissler, Ulrich M., to Harrington-Geissler & Associates, Inc. Rotary tool and turbine therefor. 3,677,351, 7-18-72, Cl. 173-57.000.
 Geist, Joseph C.: See—
 Semin, Roy E.; and Geist, Joseph C., 3,643,518.
 Geisthoff, Hubert; Welschhof, Hans-Heinrich; and Grosse-Entrup, Hubert, to Walterscheid, Jean, K.G., Firma. Detachable coupling device for torque transmitting shafts. 3,703,089, 11-21-72, Cl. 64-32.00r.
 Geitz, Norman C. Matrix coating apparatus. 3,669,068, 6-13-72, Cl. 118-64.000.
 Gelb, John; Merwin, Eugene M.; and Richardson, William B., to Computer Industries, Inc. Pen carriage assembly. 3,643,334, 2-22-72, Cl. 33-18.
 Gelb, Leonard L., to Hercules Incorporated. Filament structure and process comprising coated boron filaments. 3,681,185, 8-1-72, Cl. 161-143.000.
 Gelbard, Robert B.; Dodge, Gerald F., III; and True, Howard D. F., Jr., to General Electric Company. Side-by-side refrigerator including low cost evaporator means. 3,678,698, 7-25-72, Cl. 62-276.000.
 Gelbein, Abraham P.; and Luberoft, Benjamin J., to Lummus Company, The. Purification of gases. 3,681,015, 8-1-72, Cl. 23-2.00r.
 Gelber, Robert M.: See—
 Apfel, Joseph H.; and Gelber, Robert M., 3,649,359.
 Apfel, Joseph H.; and Gelber, Robert M., 3,679,291.
 Apfel, Joseph H.; and Gelber, Robert M., 3,682,528.
 Gelblum, Gideon P.: See—
 Pechenick, William; and Gelblum, Gideon P., 3,632,309.
 Gelblum, Gideon P., to Catalytic Construction Company. Recovery of sulfur values from brine. 3,653,829, 4-4-72, Cl. 23-181.
 Gelbman, Nathan L. Apparatus for making concrete products. 3,659,986, 5-2-72, Cl. 425-88.
 Gelbuda, William A.: See—
 Cislser, Earl J.; and Gelbuda, William A., 3,638,584.
 Gelder, Franz. Arrangement for registering the presence and the availability of personnel. 3,686,482, 8-22-72, Cl. 235-92.0ea.
 Gelder, Franz. Arrangement for planning and monitoring a production process. 3,703,630, 11-21-72, Cl. 235-151.300.
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 Gele, Pierre; and Laprade, Bernard, said Laprade, Bernard, assor. to Les Usines Laprade S.A. Carburetors operating under a constant reduced pressure. 3,677,241, 7-18-72, Cl. 123-119.0db.
 Gelenium, Robert B., to General Motors Corporation. Wide angle two-coil electrical gauge. 3,636,447, 1-18-72, Cl. 324-140.
 Gelenium, Robert B., to General Motors Corporation. Step motor drive circuit. 3,659,177, 4-25-72, Cl. 318-696.

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 Kleinschmidt, Hans-Joachim, 3,633,383.
 Kleinschmidt, Hans-Joachim; and Teinert, Karl-Heinz, 3,643,468.
 Kleinschmidt, Hans-Joachim; and Schultenkamper, Josef, 3,704,922.
 Schultenkamper, Josef, 3,635,535.
 Gelezunas, Vincent L., to General Electric Company. Apparatus for water detection using a radioactive tritium labelled reactant. 3,655,982, 4-11-72, Cl. 250-106.
 Gelfand, Leonard, to Erico Products, Inc. Reinforcing bar coupling. 3,694,012, 9-26-72, Cl. 287-110.000.
 Gelfand, Samuel, to Hooker Chemical Corporation. Halogen containing ketones, acid halides and processes. 3,655,765, 4-11-72, Cl. 260-586.
 Gelfenbein, Evgeny Jukhimovich: See—
 Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Polyakov, Boris Nikolaevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich, 3,688,833.
 Gelfgren, Erik Hannes Kurt, to AB Hagglund & Soner. Transport vehicle. 3,692,197, 9-19-72, Cl. 214-390.000.
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 Gell, Dennis; and Spurling, Arthur William, to Bentley Engineering Company Limited. The Means and method of controlling the speed of a circular knitting machine. 3,653,231, 4-4-72, Cl. 66-56.
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 Gellender, Carl. Multiple section pneumatic tire. 3,653,718, 4-4-72, Cl. 301-38.
 Geller, Harold I.: See—
 Frantz, Franklin D.; Accello, Salvatore J.; and Geller, Harold I., 3,670,091.
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 Geller, Leo, to Ciba Corporation. Complexes of A. C. T. H. peptides and polyphosphoric acids. 3,639,383, 2-1-72, Cl. 260-112.5.
 Geller, Myer; Altman, Daniel E.; De Temple, Thomas A.; and Taylor, Henry F., to United States of America, Navy. Three dimensional storage system using F-centers. 3,654,626, 4-4-72, Cl. 340-173.
 Geller, Robert Z.: See—
 Tripp, Robert W.; and Geller, Robert Z., 3,673,585.
 Gelleri, Andras: See—
 Magdanyi, Laszlo; Gelleri, Andras; Pallos, Laszlo; Erdelyi, Lujza, nee Petocz; and Gorog, Peter, 3,705,175.
 Gellert, Dale A., to Procter & Gamble Company, The. Pressure sensitive tape fastener for disposable diapers. 3,646,937, 3-7-72, Cl. 128-287.
 Geloso, Giovanni; deceased (by Domini, Gianfranca; sole heir). Lighting unit incorporating loudspeakers. 3,679,845, 7-25-72, Cl. 179-146.00r.
 Gels, Clarence B.: See—
 Hayhurst, Lewis J.; Avery, William L.; and Gels, Clarence B., 3,649,303.
 Gelsenberg Beazin Aktiengesellschaft: See—
 Richter, Guenther, 3,693,707.
 Gelston, Brenda B. Disposable athletic supporter. 3,664,336, 5-23-72, Cl. 128-158.
 Geltman, Gerald L.: See—
 Kastenbein, Ernest L.; and Geltman, Gerald L., 3,700,597.
 Geltzer, Bernard. Molding means and display casing for replicas of frontal teeth before and after orthodontic treatment. 3,686,760, 8-29-72, Cl. 32-17.000.
 Gelzer, John R. Conveyor system for moving fixtures through a selected program. 3,645,375, 2-29-72, Cl. 198-19.
 Gelzer, Justus Melchior: See—
 Konopka, Edward Alexander; and Gelzer, Justus Melchior, 3,644,616.
 Gelzeiser, Francis L.: See—
 De Angelo, Gerald J.; Gelzeiser, Francis L.; and Coley, Kenneth R., 3,683,414.
 Gem Electric Mfg. Co., Inc.: See—
 Fortino, Samuel, 3,681,730.
 Gem Oil Tool Company: See—
 Alexander, Granison T., Jr., 3,669,187.
 Gem Products, Inc.: See—
 Johnson, Eric C.; Polk, William M.; and Brockman, Robert A., 3,681,722.
 Johnson, Eric C., 3,701,068.
 Gemander, Georg: See—
 Zimmermann, Kurt; and Gemander, Georg, 3,678,913.
 Gemander, Georg, to Bosch, Robert, G.m.b.H. Ignition arrangements for internal combustion engines. 3,648,675, 3-14-72, Cl. 123-149.
 Gemco Electric Company: See—
 Cork, Gordon H.; Tenniswood, David M.; and Kaptur, Robert E., 3,677,099.
 Gemco, Inc.: See—
 Golden, John R., 3,684,213.
 Gemeinhardt, Hermann, to Glanzstoff AG. Apparatus for production of moulins yarns. 3,651,630, 3-28-72, Cl. 57-34.
 Gemert, Lee Van: See—
 Hood, Frederick E.; Davis, Harry T.; and Gemert, Lee Van, 3,658,025.
 Gemini Investment Etablissement: See—
 Axisa, Walter, 3,706,117.
 Gemini Paper Fibers Corporation: See—
 Loscialo, Alfred, 3,636,864.
 Gemmill, Robert M., Jr.: See—
 Schick, John W.; and Gemmill, Robert M., Jr., 3,655,561.
 Gemmill, Robert M., Jr.; and Schick, John W., to Mobil Oil Corporation. Lubricant compositions comprising substituted indans. 3,640,870, 2-8-72, Cl. 252-59.
 Gempel, Robert Francis: See—
 Chessin, Hyman; and Gempel, Robert Francis, 3,657,079.
 Gemperle, Edward Carroll: See—
 Aubert, Harry Julius; and Gemperle, Edward Carroll, 3,679,608.
 Genakis, Joseph M. Step cam disc cylinder lock. 3,693,384, 9-26-72, Cl. 70-364.00a.
 Genakis, Joseph Michael. Lock with safety bolt. 3,666,306, 5-30-72, Cl. 292-169.17.
 Genbauffe, Francis S.: See—
 Branson, Charles D.; and Genbauffe, Francis S., 3,703,988.
 Genbauffe, Francis S., to Robertshaw Controls Company. Flame sensing bulb construction. 3,642,200, 2-15-72, Cl. 236-15.
 Genbauffe, Francis S., to Robertshaw Controls Company. Control system for a double burner oven or the like and improved parts and method for the same or the like. 3,692,239, 9-19-72, Cl. 236-15.00a.
 Genbauffe, Francis Simon, to Robertshaw Controls Company. Burner construction and method of making the same or the like. 3,647,146, 3-7-72, Cl. 239-559.
 Genca, Samuel R.: See—
 Golden, Henry; and Genca, Samuel R., 3,707,242.
 Tolliver, Peter M., 3,664,558.
 Gencarelli, Richard A.: See—
 Amidon, Roger W.; and Gencarelli, Richard A., 3,674,824.
 Genchi, Hiroshi: See—
 Iijima, Taizo; Yamazaki, Issei; Mori, Shunji; Genchi, Hiroshi; and Katsuragi, Sumio, 3,668,638.
 Watanabe, Sadakazu; Mori, Kenichi; Yoneyama, Tsuneo; and Genchi, Hiroshi, 3,688,266.
 Gende, Joseph J., to Whittaker Corporation. Linear rate spring mechanism. 3,689,055, 9-5-72, Cl. 267-150.000.
 Genden, Seymour A., to United States of America, Army. Solid fuel composition. 3,645,810, 2-29-72, Cl. 149-43.
 Gendle, Eric: See—
 Head, Gordon Edwin; Jones, Kenneth Morgan; and Gendle, Eric, 3,647,362.
 Gendler, Irvin F., to Murphey, Daniel F. Horseshoe game device with recessed stake areas. 3,640,535, 2-8-72, Cl. 273-126.
 Gendraon, Raymond V.; and Baldi, Albert F., to Nashua Corporation. Computer print out paper package. 3,631,972, 1-4-72, Cl. 206-57.
 Gendreau, Jacques C., to Fogautolube S.A. Load lifting mechanism. 3,687,234, 8-29-72, Cl. 187-25.000.
 Gendron, Everett W. Illuminated belt. 3,641,333, 2-8-72, Cl. 240-6.4.
 Gendron, George J.: See—
 Godley, Augustus P.; Fuller, Francis M.; Houk, Charles R.; Holland, Henry A. Nelson; and Gendron, George J., 3,641,775.
 Gendron, Lester. Mobile washing machine. 3,706,210, 12-19-72, Cl. 68-152.000.
 Gendron, Roger J.; and Sims, Dewitt, to Baker Perkins Inc. Gravity type pan unstacker. 3,658,194, 4-25-72, Cl. 214-8.5.
 Gene, Bernard Arthur: See—
 Marten, John Anthony; and Gene, Bernard Arthur, 3,702,075.
 Genequand, Pierre, to Battelle Memorial Institute. Vacuum interrupter or switch for electric power networks. 3,705,144, 12-572, Cl. 200-144.00b.

- General Alarm Corporation: *See*—
Colman, Robert, 3,634,845.
Colman, Robert, 3,700,813.
Hawkins, Paul Maddison, 3,639,193.
Hawkins, Paul Maddison, 3,681,954.
- General American Transportation Corporation: *See*—
Davis, Edward L.; and Becsey, Leslie, 3,632,145.
Levin, Paul; and Adamski, Maximilian, 3,699,881.
Milenkovic, Veljko; and Neidhardt, Glen L., 3,707,125.
Price, Albert E.; and Mowatt-Larsen, Erling, 3,662,692.
Price, Albert E.; and Mansen, Robert L., 3,685,458.
Stevens, Bernard, 3,655,109.
Taylor, William A., 3,645,213.
Taylor, William A., 3,653,333.
- General Aniline & Film Corporation: *See*—
Daniels, Wiley E.; Field, Nathan D.; and Katz, Leon, 3,657,392.
Hartigan, James J.; and Clementi, Robert J., 3,692,525.
Mutaffis, Thomas D.; Katz, Leon; and Grosser, Frederick, 3,660,349.
Webb, Albert E., 3,675,354.
Wynn, Robert W.; and Chiddix, Max E., 3,671,594.
- General Applied Science Laboratories, Inc.: *See*—
Abele, Manlio G., 3,675,128.
- General Automotive Specialty Company, Inc.: *See*—
Miller, Martin P., 3,676,617.
- General Aviation Electronics, Inc.: *See*—
Boelter, Donald A., 3,676,767.
- General Battery and Ceramic Corporation: *See*—
Channing, Harry M., 3,638,108.
- General Binding Corporation: *See*—
Azato, Robert N., 3,705,706.
Staats, Henry N., 3,684,635.
Thomas, Wilbur E., 3,669,442.
- General Binding Corporation (Canada) Limited: *See*—
Hoff, Charles Nicholas, 3,656,739.
- General Cable Corporation: *See*—
Bahder, George; and Garcia, Felipe G., 3,684,958.
Bahder, George; and Garcia, Felipe G., 3,707,674.
Brown, Charles A., 3,635,620.
Eitel, Jay M., 3,637,044.
Jachimowicz, Ludwik; Reasoner, Edwin W.; and Olszewski, Jerzy A., 3,662,091.
Jachimowicz, Ludwik; and Olszewski, Jerzy A., 3,660,589.
Leigh, Bertram Jonathan, 3,695,390.
Leonardo, Ignazio; and Pfeiffer, Harold C., 3,652,003.
Robinson, Daniel E.; and Rubinstein, Solomon, 3,662,085.
Robinson, Daniel E.; and Rubinstein, Solomon, 3,707,698.
Rubinstein, Solomon, 3,676,571.
Silver, David A.; and Bahder, George, 3,651,244.
- General Cigar Co., Inc.: *See*—
Dreher, Hans C., 3,686,989.
- General Connectors Corporation: *See*—
Greenwald, Fred A., 3,698,727.
Shire, Harold; Newman, Ira R.; and Allison, Robert S., 3,632,144.
Shire, Harold; and Newman, Ira R., 3,695,639.
Shire, Harold; and Newman, Ira R., 3,704,034.
- General Conveyor, Inc.: *See*—
Bertola, Peter H., 3,667,618.
- General Corporation, The: *See*—
Otaguro, Adayaso, 3,684,978.
- General Corrugated Machinery Co., Inc.: *See*—
Freakes, Anthony, 3,666,166.
Kruglinski, Frank A.; and Miller, Joseph A., 3,654,032.
- General Datacomm Industries: *See*—
Ciecierski, Walter V.; Raymond, Welles K.; and Cronin, Frederick R., 3,632,882.
Lieberman, Richard Allen; and Davis, Steven Jay, 3,655,915.
Raymond, Welles K.; and Ciecierski, Walter V., 3,668,645.
- General Descaling Company, Limited: *See*—
Jones, John Walter, 3,685,083.
- General Dynamics Corporation: *See*—
Bielefeld, Ewald J., Jr.; and Puma, Maurice J., 3,698,867.
Blanding, John E.; Trageser, Edmund C.; and Harrington, James Vincent, 3,661,204.
Bowers, John O., Jr., 3,665,108.
Cameron, James A.; Lanzafame, Joseph; and Mann, Leonard E., 3,646,311.
Cooper, Clifford B., 3,690,600.
Cupp, Frederick B.; and Whiting, John S., 3,641,506.
Degnan, Joseph F.; and Ayotte, Robert A., 3,649,475.
Degnan, Joseph F., 3,654,097.
Frankowski, Jozef, 3,661,675.
Gehman, John B., 3,706,982.
Green, Harry J., Jr., 3,648,357.
Kronenberg, Klaus J., 3,663,075.
Rogers, Stanley, 3,694,775.
Varlas, Mike, 3,649,435.
Warren, John M., 3,652,333.
Whiting, John S., 3,653,036.
Wise, Boyd A., 3,662,843.
- Zarcone, Carl J.; Cleveland, Bruce M.; and Smith, Donald F., 3,639,842.
- General Electric and English Electric Companies, Limited, The: *See*—
Ingram, David John; and Maillardet, Frederick James, 3,675,794.
- General Electric Company: *See*—
Abbott, Roy W., 3,670,713.
Abercrombie, Jonathan C., 3,704,906.
Abolins, Visvaldis, 3,671,487.
Aeres, Ronald C., 3,632,228.
Addamiano, Arrigo; and Perusek, Ronald J., 3,636,397.
Agens, Maynard C., 3,649,350.
Agens, Maynard C.; and Kantor, Simon W., 3,676,285.
Aird, Alanson D., 3,689,991.
Albright, Donald R.; Archibald, James B.; and Barton, Sterling C., 3,652,881.
Aleksa, Alvin J., 3,666,830.
Alley, Robert P.; and Davis, Paul W., Jr., 3,659,197.
Alley, Robert P., 3,706,952.
Allison, Ralph H., Jr., 3,673,532.
Almasi, Joseph C.; and Martin, William S., 3,679,996.
Alter, Henry Ward; and Price, Paul B., 3,665,194.
Alwan, Abdul Sahib; and Ruscetta, Ralph Antonio, 3,666,642.
Anderson, Albert W.; and Konrad, Charles E., 3,660,738.
Anderson, Albert W.; and Konrad, Charles E., 3,667,021.
Anderson, Bernard J.; and Schoenborn, William E., 3,661,475.
Anderson, John M., 3,701,003.
Anderson, Richard C., 3,640,887.
Anderson, Richard E., 3,646,376.
Anderson, Roy E.; and Merigo, Miguel A., 3,680,121.
Anderson, Thomas E., 3,693,053.
Arand, John K., 3,646,763.
Arand, John K., 3,670,501.
Arndt, Richard H., 3,657,650.
Arnold, Richard B.; and Smith, Dallas F., 3,643,317.
Arnold, Richard B., 3,672,027.
Arnold, Richard B., 3,672,039.
Arnold, Richard B., 3,672,040.
Arnold, Richard B., 3,672,041.
Ashley, Eugene; Tassie, Douglas P.; and Seemann, James M., 3,698,283.
Ashley, Eugene; Tassie, Douglas P.; and Seemann, James M., 3,706,259.
Ayres, Reginald J., 3,646,387.
Babilis, Robert C.; and Liberti, Frank N., 3,634,312.
Bailey, Herbert S., Jr.; and Stewart, Samuel L., 3,660,230.
Baird, Leslie L., 3,660,721.
Bakel, Joseph F.; and Rogers, George L., 3,665,170.
Bakeman, Orville R.; and French, Allen D., 3,675,153.
Barkan, Philip; and Porter, Joseph W., 3,646,292.
Barkan, Philip, 3,654,528.
Barkan, Philip; and Skreiner, Klaus M., 3,663,906.
Barkan, Philip, 3,674,964.
Barnett, Allen M.; Jensen, Harold A.; and Meikleham, Virginia F., 3,647,578.
Barnett, Allen M.; Galginitis, Simeon V.; and Heumann, Frederick K., 3,703,656.
Barnett, Richard C., 3,640,264.
Barnett, Richard C.; and Boucher, James D., 3,667,892.
Barnett, Richard C.; Dark, Joe W.; and Schulze, James L., Sr. (said Barnett and Dark assors. to), 3,674,005.
Barton, Sterling C.; and Sawada, Fred H., 3,653,019.
Batscha, Alexander P., 3,677,012.
Bauer, Douglas M., 3,678,500.
Beaudoin, Norman R.; and Lauben, Robert W., 3,632,932.
Becker, Hans-Dieter; and Gilbert, Alfred R., 3,637,593.
Becker, Hans-Dieter, 3,649,653.
Becker, Joseph J., 3,639,182.
Becker, Joseph J., 3,652,343.
Becker, Joseph J., 3,664,892.
Beddows, Norman A.; Quigley, John A.; and Wielt, Warren P., 3,675,058.
Bedford, Burnice D., 3,678,352.
Bedford, Burnice D., 3,679,953.
Beggs, James E., 3,638,062.
Beggs, James E., 3,648,096.
Beggs, James E., 3,659,131.
Beggs, James E., 3,662,209.
Ben Daniel, David J.; Morgan, John R.; and Fielding, John O., 3,647,223.
Ben Daniel, David J.; Fielding, John O.; and Hurwitz, Henry, Jr., 3,672,687.
Bennett, James G.; and Cooper, Glenn D., 3,639,656.
Bennett, Moreland P., 3,648,014.
Bennett, Moreland P., 3,678,242.
Benz, Mark G., 3,655,463.
Benz, Mark G., 3,655,464.
Benz, Mark G.; and Martin, Donald L., 3,684,593.
Benz, Mark G., 3,695,945.
Berger, Abe, 3,632,826.

- Berger, Abe, 3,642,855.
Berger, Abe, 3,646,089.
Berger, Abe, 3,646,091.
Berger, Abe, 3,654,332.
Berger, Abe; and Jaleel, Jalal S., 3,668,229.
Berger, Abe, 3,678,089.
Berger, Abe, 3,692,812.
Berger, Abe; and Selin, Terry G., 3,700,711.
Berger, Abe, 3,700,715.
Berger, Abe; and Selin, Terry G., 3,700,716.
Berger, Abe; and Lewis, Frederick M., 3,704,261.
Berger, John G., 3,670,943.
Berman, Max; and Bowen, Gary W., 3,701,102.
Bernier, Warren E., 3,698,080.
Berry, Alvin F., 3,647,921.
Best, Roger J.; and Sears, Richard G., 3,658,183.
Bialous, Charles, 3,673,278.
Bialous, Charles A., 3,647,747.
Bialous, Charles A., 3,651,174.
Bialous, Charles A.; Campbell, Allen J.; and Liberti, Frank N., 3,697,481.
Binzer, Thomas J., 3,679,855.
Birle, John D., 3,661,521.
Bishop, Everett R., 3,707,663.
Bishop, James S., 3,665,234.
Blackburn, Richard D., 3,641,546.
Blount, Richard, 3,636,342.
Bobear, William Joseph, 3,660,345.
Bobo, Melvin, 3,648,457.
Boliver, Vincent J., 3,678,432.
Boliver, Vincent J., 3,678,451.
Bondi, Pasquale Columbo, 3,692,041.
Bondley, Ralph J., 3,691,607.
Boothe, Willis A., 3,635,235.
Boothe, Willis A., 3,671,134.
Boothe, Willis A.; and Healey, Anthony J., 3,678,953.
Borman, Willem F. H., 3,652,499.
Born, Norman E.; Kolatorowicz, Edwin E.; and Plumb, Harry A., Jr., 3,665,274.
Bostick, Edgar E.; Gaines, George L., Jr.; and Le Grand, Donald G., 3,634,186.
Bostick, Edgar E.; Gaines, George L., Jr.; and Le Grand, Donald G., 3,640,943.
Bostick, Edgar E.; and Zdaniewski, Joseph J., 3,641,090.
Boucher, James D., 3,667,451.
Boucher, James D.; and Hopkins, Jesse L., 3,692,014.
Bovenkerk, Harold Paul; and Berecki, William Arthur, 3,645,706.
Bowers, David L., 3,677,251.
Bowers, Harry J., Jr., 3,668,421.
Boyd, Wilton E., 3,634,905.
Boyles, Robert L., 3,683,523.
Brandt, Theodore C.; and Schulze, James L., Sr., 3,695,811.
Brenig, Theodore; Smith, James S., Jr.; and Woodie, Paul E., Jr., 3,689,699.
Brezosky, Bernard J., 3,635,243.
Brinkman, Earl H., 3,659,956.
Bristow, Robert H., 3,700,420.
Broman, Carl L.; and Schwieterman, Richard A., 3,688,560.
Broski, Thomas J., 3,646,439.
Browall, Kenneth W.; and Interrante, Leonard V., 3,703,696.
Brown, Dale H., 3,677,905.
Brown, Dale M.; and Garfinkel, Marvin, 3,640,782.
Brown, Dale M.; and Engeler, William E., 3,641,405.
Brown, Edgar D., Jr., 3,639,238.
Brown, Edgar D., Jr., 3,694,358.
Buller, Dale F.; and Rohrs, Douglas W., 3,662,106.
Bunch, Raymond S.; and Sanger, Richard B., 3,648,205.
Burge, Joseph C., 3,685,920.
Burgess, James F.; Kopczewski, Robert F.; and Holeman, John M., 3,679,299.
Burgess, James F.; and Neugebauer, Constantine A., 3,691,537.
Busian, Vincent V., 3,681,836.
Butterfield, John L.; and Brisse, George E., 3,637,049.
Caltagirone, Saverio, 3,648,207.
Caltagirone, Saverio, 3,648,506.
Caltagirone, Saverio, 3,669,380.
Camp, Arthur F., Jr.; and Getz, Harry W., 3,639,845.
Canfield, Eugene Beach, 3,665,168.
Caputi, Roger W.; and Crawford, Wayne T., 3,662,178.
Cardell, Robert J.; and Harubin, Walter S., 3,649,801.
Carino, John W., 3,644,796.
Carpenter, Thomas J., 3,673,459.
Carson, Chester C.; Echeverria, Federico S.; and Barton, Sterling C., 3,702,561.
Carson, William N., Jr.; and Manganaro, James L., 3,703,358.
Carty, Edward J.; and McDowell, Francis C., 3,678,079.
Caulier, Paul W.; and Greene, Donald W., 3,646,343.
Cech, Robert E., 3,639,181.
Chace, Richard L.; and Haun, Burton O., 3,702,983.
Chadwick, Philip, 3,701,938.
Chafaris, George J., 3,655,371.
Chalk, Alan J.; and Factor, Arnold, 3,679,629.
Chausse, Burnette P.; and Konrad, Charles E., 3,671,831.
Chen, Arthur C. M., 3,641,510.
Chen, Arthur C. M.; and Lommel, James M., 3,660,158.
Chen, Arthur C. M., 3,689,900.
Chen, Muchuan M.; and Kotheimer, William C., 3,704,392.
Chernoch, Joseph P., 3,679,999.
Christopher, Harold A., 3,660,063.
Clark, Burton P.; and Scanlon, James D., 3,690,215.
Clark, Robert F., 3,662,765.
Clark, Robert F.; and Krantz, Karl W., 3,696,137.
Clark, Thomas J.; and Brown, Howard W., 3,647,511.
Clark, Thomas J.; and Brown, Howard W., 3,673,051.
Cockrell, Sanford C.; and Dorgan, Robert J., 3,650,159.
Coffin, Louis F., Jr.; and Johnson, Lyman A., 3,652,225.
Coffin, Louis F., Jr.; and Johnson, Lyman A., 3,652,226.
Colby, Richard H., 3,635,123.
Colby, Richard H., 3,650,175.
Cole, Herbert S., Jr., 3,703,402.
Collins, Neil E.; Kerber, Elwyn W.; and Neville, Raymond R., 3,676,668.
Collins, Neil E.; and Halt, Ira E., 3,684,930.
Conway, Gerard V., 3,691,495.
Cook, Billy G., 3,685,092.
Cook, Billy G., 3,687,409.
Cook, Newell C., 3,701,639.
Cooper, Glenn D.; and Bennett, James G., 3,642,699.
Cooper, Glenn D.; and Bennett, James G., 3,661,848.
Cooper, James Lee, 3,653,781.
Cordes, Linus F., 3,703,456.
Corman, James C.; and Kelly, Peter E., 3,656,035.
Correll, Edward M., 3,684,927.
Correll, Edward M., 3,697,823.
Cormier, Robert J.; Howell, Thomas G.; Corrigan, Charles E.; and Koff, Bernard L., 3,700,348.
Cox, Howard Nesbit, 3,683,653.
Craven, Harry J.; Hannahan, William F.; and Viscusi, James J., 3,685,931.
Crivello, James V., 3,634,520.
Crivello, James V., 3,678,080.
Crivello, James V., 3,678,081.
Crivello, James V., 3,701,740.
Cromer, George Philip, 3,695,935.
Crowe, William P., 3,674,359.
Cummings, Paul Gene, 3,686,550.
Curry, Robert W., III, 3,654,772.
Cushman, Paul G., 3,694,631.
Cushman, Paul G.; and Clark, Albert A., 3,700,986.
Cutler, Arthur S.; and Smith, Dallas F., 3,672,026.
Czwakiel, Bert J.; and Miller, Donald F., 3,667,282.
Dalke, Charles Arthur; and Child, Cedric L., 3,660,233.
Dalton, Wayne D.; Mackzum, Stanley C.; Mann, Friedrich H.; and Sensabaugh, Paul F., 3,644,873.
Datta, Ranajit Kumar, 3,635,833.
Datta, Ranajit Kumar, 3,676,361.
Davidson, William E.; and Busby, Llewellyn D., 3,654,715.
Davidson, William E., 3,685,180.
Davidson, William E.; Walker, Wendell C.; and Foster, Harold S., 3,685,181.
Davidson, William E.; and Walker, Wendell C., 3,685,182.
Davis, Donald Y.; and Coffinberry, George A., 3,699,774.
Davis, Richard K., 3,662,545.
Davis, Richard K., 3,667,218.
De Remer, Harold A., 3,684,861.
De Vries, Robert C.; and Fleischer, James F., 3,701,826.
De Vries, Robert C.; and Fleischer, James F., 3,703,478.
De Wolf, Frank T., 3,648,089.
Dean, John W., 3,673,272.
Decker, Charles L.; and Tuttle, Edward G., 3,670,277.
Dellert, Robert C., 3,678,752.
Demarest, Donald M.; and Shore, Arnold I., 3,646,400.
DeMarest, Donald M., 3,684,943.
Denny, John H., Jr., 3,671,884.
Denton, Bryce A., 3,665,374.
Denton, Bryce A., 3,685,569.
Denton, Cecil S.; and Denzler, Frank D., 3,659,696.
DePuy, Robert P., 3,659,216.
Desmond, Richard J.; Fronczek, Edward J.; and McCarthy, John J., 3,649,803.
Desmond, Richard J.; Fronczek, Edward J.; and McCarthy, John J., 3,669,478.
Dewey, Clyde G., 3,633,046.
Dewey, Clyde G., 3,673,455.
Dibelius, Norman Richard; and Zabriskie, William Lun, 3,658,017.
Diehl, Max H., 3,705,952.
Dills, Raymond L., 3,632,983.
Dills, Raymond L.; and Dooley, James A., 3,686,477.
Dinger, Edward H., 3,671,824.
Dinger, Edward H., 3,697,844.

Dixon, Corbin; and Larew, John J., 3,670,205.
 Dochterman, Richard W., 3,670,405.
 Dodge, Gerald Floyd, III; and True, Howard D. F., Jr., 3,670,521.
 Donaldson, Gordon W.; Graham, Charles D., Jr.; and Hart, Howard R., Jr., 3,665,351.
 Donovan, Lawrence E., 3,702,963.
 Dounoucos, Angelo; and Harrison, John W., 3,664,359.
 Dounoucos, Angelo, 3,674,022.
 Downing, Arthur C., 3,675,351.
 Drexler, Karl F.; and Gibbs, Edward E., 3,691,416.
 Drexler, Karl F.; and Kudlacik, Henry W., 3,702,965.
 Dunbar, Robert A., 3,649,902.
 Duncan, Vernon R.; and Owen, Louis L., 3,706,943.
 Dutton, John C., 3,675,175.
 Earing, Mason H., 3,675,081.
 Earing, Mason H., 3,677,995.
 Edgar, D. Brown, Jr., 3,676,349.
 Edgar, Robert F.; Martzloff, Francois D.; and Tompkins, Russell E., 3,671,893.
 Ehner, William J., 3,650,673.
 Eichelberger, Charles D.; and Musselman, Frank L., 3,697,819.
 Eissmann, Kurt William, 3,684,948.
 Emerson, Paul Gene; Thmhain, Hans Jurgen; and McIntosh, Bruce Cromwell, 3,664,116.
 Emgeler, William E., 3,685,140.
 Engeler, William E.; and Brown, Dale M., 3,686,748.
 Engeler, William E., 3,691,627.
 Erdman, David M., 3,668,489.
 Erickson, Clifford E.; and Linger, Harrison K., 3,636,645.
 Eriksson, Lars O.; and Rosser, Daniel B., 3,652,903.
 Erwin, John R.; and Vitale, Nicholas G., 3,639,075.
 Erwin, John R., 3,692,425.
 Ettinger, Bruce L., 3,657,404.
 Ettinger, Bruce L.; and Wolosin, Samuel M., 3,666,526.
 Ettlinger, Louis F., 3,639,681.
 Evans, John T.; and Kelling, Leroy U. C., 3,651,481.
 Evans, John T., 3,657,525.
 Evans, Milton L.; Mitchell, Tyrone D.; and Selin, Terry G., 3,646,084.
 Evans, Milton L., 3,665,026.
 Factor, Arnold, 3,644,227.
 Factor, Arnold, 3,673,146.
 Factor, Arnold, 3,687,829.
 Factor, Arnold; and Heinsohn, George E., 3,694,384.
 Farnsworth, Richard G.; and Keeler, James H., Jr., 3,662,368.
 Farnsworth, Richard G., 3,706,086.
 Farrington, Dale A.; and Vandevord, George E., 3,703,122.
 Fazio, James A.; and Wesbey, William H., 3,674,931.
 Fenner, Gunther E., 3,696,389.
 Finch, Thomas Ellwood, 3,699,306.
 Fister, Karoly G.; and Gibbons, Martin D., 3,706,885.
 Fleischer, Robert L.; and Price, Paul B., 3,677,844.
 Fleming, Robert B.; and Rosner, Carl H., 3,654,377.
 Fleming, Robert B., 3,692,095.
 Fleming, Rodney A., 3,642,230.
 Flowers, Ralph G.; and Sherer, Thomas L., 3,661,852.
 Flowers, Ralph G.; and Sherer, Thomas L., 3,679,632.
 Folgate, Kent R., 3,705,977.
 Fontana, Anthony J., 3,694,607.
 Foster, S. Harold; and Walker, Wendell C., 3,665,152.
 Fox, Daniel W.; and Wambach, Allen, 3,683,903.
 Fox, Jack N.; Hansen, Ned P.; Olich, Eugene E.; Guenther, Ralph W.; and Rubinstein, Herbert J., 3,660,231.
 Francis, Wallace R., 3,651,445.
 Franklin, John S.; and Pursley, William C., 3,705,301.
 Frazier, Lauren L., 3,640,089.
 Freeman, Arthur H.; and Vallone, Giacinto, 3,694,604.
 Frey, Langdon T., III, 3,685,682.
 Friedman, Arnold I.; and Bartholomew, Ralph L., 3,647,532.
 Fritzsche, Donald E., 3,701,171.
 Fritzsche, Harold L., 3,696,780.
 Fulkerson, Emmet Mitchell; Andrews, James Dair; and Stannard, Kenneth Warner, 3,658,682.
 Fulkerson, Emmet Mitchell, 3,679,566.
 Gaines, George L., Jr.; and Le Grand, Donald G., 3,664,959.
 Gaines, George L., Jr.; and Le Grand, Donald G., 3,686,355.
 Gakhar, Ved P., 3,673,823.
 Gales, Richard J., 3,686,618.
 Garcia, Roger, Jr., 3,648,483.
 Garrett, Donald E.; and Zaloudek, Theodore V., 3,674,919.
 Garrison, Dwight Wesley, 3,648,314.
 Gates, Wilbur C., 3,663,730.
 Gawler, Glenn B., 3,665,508.
 Gawthrop, Roy E.; and Mason, Lowell M., 3,659,337.
 Gelbard, Robert B.; Dodge, Gerald F., III; and True, Howard D. F., Jr., 3,678,698.
 Gelezunas, Vincent L., 3,655,982.
 Gentile, Richard W.; and Moyer, Wayne B., 3,631,672.
 George, Raymond L.; Krusozna, Edward G.; Laniewski, John P.; and Wood, Norman H., 3,637,092.
 Germer, John H., 3,634,189.
 Gilbert, Kendall E., 3,644,816.
 Gillett, Colin, 3,706,063.
 Gillooly, George R., 3,639,253.
 Gillooly, George R.; and Rabatin, Jacob G., 3,647,707.
 Girard, Roland T., 3,639,164.
 Girard, Roland T., 3,676,314.
 Girard, Roland T.; and Rice, George A., 3,677,796.
 Girard, Roland T.; and Rice, George A., 3,703,390.
 Glaser, John H., 3,634,177.
 Gleason, Thomas E.; and Ripley, Charles C., 3,662,578.
 Glenn, William E., Jr., 3,672,894.
 Goossens, John C., 3,654,215.
 Goossens, John C., 3,674,739.
 Graf, Carlton E., 3,684,936.
 Graf, Carlton E.; and Volkmann, Werner K., 3,694,718.
 Graf, Carlton Eugene; Skogsholm, Einar Aasen; and Volkmann, Werner Karl, 3,641,421.
 Graff, William A.; and Kohut, Jaroslaw, 3,669,698.
 Graves, Ralph L., 3,691,505.
 Greene, Ralph F., 3,680,184.
 Greenwood, Allan N., 3,656,022.
 Grenoble, Maurice E., 3,649,349.
 Griffin, Jon H., 3,680,050.
 Grout, Stephen, 3,699,467.
 Grove, Lawrence L., 3,660,637.
 Grubb, Willard T.; and Macur, Robert A., 3,647,641.
 Grubb, Willard T.; and Macur, Robert A., 3,650,836.
 Grubb, Willard T., 3,664,537.
 Grubb, Willard T., 3,671,414.
 Grubb, Willard T.; and Macur, Robert Anthony, 3,701,687.
 Grubb, Willard T., 3,705,089.
 Guilbault, Lawrence J.; and Schwenker, David G., 3,660,136.
 Guth, Lauren W., 3,642,208.
 Haaf, William R., 3,639,506.
 Haaf, William R., 3,663,654.
 Hagen, Kenneth G., 3,672,750.
 Hale, Thomas E., 3,658,604.
 Hale, Thomas E., 3,698,878.
 Hall, Robert N., 3,671,330.
 Hamilton, Stephen B.; Beers, Melvin D.; Berger, Abe; and Selin, Terry G., 3,661,817.
 Hampton, Thomas L., 3,632,223.
 Hamstra, David C., 3,693,047.
 Harnden, John D., Jr., 3,670,639.
 Harnden, John D., Jr., 3,671,749.
 Harnden, John D., Jr., 3,694,626.
 Harper, Kennard W., 3,637,315.
 Harrier, Stanley C., 3,704,194.
 Harrington, Dean B., 3,652,888.
 Harris, Robert L., 3,707,682.
 Hartman, William A., Jr.; and Siegler, Manny, 3,679,372.
 Hawks, John D., 3,676,750.
 Hay, Allan S., 3,673,219.
 Heartz, Robert Alan, 3,641,531.
 Heft, Eldon B., 3,632,926.
 Henderson, Wayne L.; and Dills, Raymond L., 3,645,249.
 Henderson, Wayne L.; and Dills, Raymond L., 3,659,579.
 Henkes, John L., Jr., 3,701,581.
 Henry, Michael F., 3,664,883.
 Herdrich, William M.; and Bender, Norman A., 3,678,436.
 Herrick, Catlyle S., 3,652,355.
 Hesler, Joseph P.; McFadyen, Robert J.; and Schlereth, Fritz H., 3,654,563.
 Hewlett, Clarence Wilson, Jr., 3,662,264.
 Higgins, John B.; and Gatti, Arno, 3,668,006.
 Hildebrandt, Andy M., 3,662,216.
 Hill, Howard W.; Kaznoff, Alexis I.; and Marlowe, Mickey O., 3,679,596.
 Hilliker, Donald E.; and Webb, William M., 3,643,464.
 Hirst, Robert G.; and Desnoyers, George J., 3,705,826.
 Hoag, Yates M., 3,653,040.
 Hoback, John T.; and Holub, Fred F., 3,663,728.
 Hoerst, Donald J., 3,648,800.
 Hoffman, Herbert N., 3,651,662.
 Hoffman, Herbert N., 3,702,719.
 Hoffman, Mary V., 3,666,674.
 Hoffman, Mary V., 3,692,689.
 Hoffman, Mary V., 3,702,828.
 Hoffmeyer, William R., 3,633,056.
 Hoffmeyer, William R.; and Rediger, Alvin L., 3,650,167.
 Hogel, John J., 3,671,390.
 Holum, John M.; and Welch, Joseph D., 3,636,330.
 Holland, William P.; and Hueschen, Robert E., 3,650,846.
 Holoch, Klaus E., 3,639,334.
 Holub, Fred F., 3,632,608.
 Holub, Fred F.; and Emerick, Carl M., 3,651,012.
 Holub, Fred F.; and Emerick, Carl M., 3,652,710.
 Holub, Fred F.; and Evans, Milton L., 3,652,715.
 Holub, Fred F.; and Evans, Milton L., 3,652,716.
 Holub, Fred F.; Berger, Abe; and Selin, Terry G., 3,657,304.

Holub, Fred F.; Berger, Abe; and Selin, Terry G., 3,673,155.
 Holub, Fred F.; and Hoback, John T., 3,678,015.
 Holub, Fred F.; and Evans, Milton L., 3,689,464.
 Holub, Fred F.; Berger, Abe; Hardman, Bruce B.; and Urkevich, Michael P., 3,701,795.
 Honda, Thomas Shaw, 3,685,501.
 Hooker, John M., 3,704,511.
 Hopkinson, Philip J., 3,646,489.
 Hopkinson, Philip J., 3,706,058.
 Hoppin, George S.; Yount, Reed E.; Berry, Thomas F.; and Barker, James F., 3,632,319.
 Hoppin, George S., III; Yount, Reed E.; Berry, Thomas F.; and Barker, James F., 3,692,501.
 Hoppin, George S., III; Yount, Reed E.; Berry, Thomas F.; and Barker, James F., 3,700,427.
 Horn, Fordyce H., 3,634,150.
 Horn, Fordyce H.; Porter, Joseph W.; and Talento, Joseph L., 3,663,775.
 Houston, John M., 3,694,685.
 Howell, Thomas G.; and Koff, Bernard L., 3,689,176.
 Hubble, William Schenck; Woods, Kenneth K.; and Tramuta, Salvatore S., 3,667,430.
 Hughes, Philip G., 3,641,287.
 Hughes, William C., 3,673,528.
 Hull, Thomas Neil, Jr., 3,693,354.
 Humphrey, John G., 3,673,319.
 Humphrey, John G., 3,676,582.
 Hurko, Bohdan; and Dills, Raymond L., 3,659,646.
 Hurko, Bohdan; and Dills, Raymond L., 3,674,983.
 Hutchinson, Charles A.; Henderson, Richard L.; and Schilling, Thomas L., 3,688,504.
 Huth, Gerald C., 3,669,731.
 Huth, Gerald C.; and Davies, Robert L., 3,697,829.
 Hyer, Donald Roy, 3,662,276.
 Jacobus, Dwight W.; and Simms, Michael L., 3,640,088.
 Jerabek, Elihu C., 3,672,997.
 Johnson, Frederick R.; and Palmer, David R., 3,697,195.
 Johnson, Lyman A.; and Henry, Michael F., 3,652,224.
 Johnson, Peter D., 3,657,590.
 Johnson, Peter D., 3,657,591.
 Johnson, Peter D.; and Poran, Howard A., 3,659,138.
 Johnson, Peter D., 3,679,928.
 Johnston, Frank C.; and Krause, Werner A., 3,681,509.
 Jones, Claude K.; and Martin, Stuart W., 3,650,930.
 Jones, Clifton P.; and Martyny, William C., 3,646,383.
 Jones, Shannon, 3,658,715.
 Jordan, Thomas M., Jr., 3,674,927.
 Joseph, Raymond S.; and Kemeny, Julius, 3,699,580.
 Joslyn, John A., 3,649,895.
 Joynson, Reuben E.; and Mundy, Joseph L., 3,699,544.
 Judd, Edwin B., 3,657,936.
 Judd, Edwin B., 3,706,062.
 Judge, John R.; and Kilpatrick, Robert G., 3,705,302.
 Juliano, Peter C.; and Ward, William J., III, 3,653,180.
 Juliano, Peter C., 3,663,650.
 Kambour, Roger P., 3,639,508.
 Kantola, Robert A.; and West, Norman H., 3,666,273.
 Kantola, Robert A.; and Boothe, Willis A., 3,675,473.
 Karstedt, Bruce D.; and Razzano, John S., 3,671,546.
 Katchman, Arthur, 3,663,661.
 Katz, Herbert, 3,656,301.
 Kauffman, Melvin R., 3,679,282.
 Kegan, Robert E.; and Underwood, Frank A., 3,632,286.
 Keiles, Yoel; Kelley, Fred W., Jr.; and Lezan, Georges R. E., 3,665,293.
 Keiter, Robert W.; and Taylor, Jack R., 3,631,675.
 Kelley, Fred W., Jr.; and Lezan, Georges R. E., 3,654,541.
 Kelley, Fred W., Jr., 3,675,110.
 Kelley, Fred W., Jr.; and Lezan, Georges R. E., 3,693,069.
 Kelling, Leroy D. C., 3,684,874.
 Kelling, Leroy U. C., 3,674,999.
 Kelly, Jack L.; and Wiandt, Ronald K., 3,647,222.
 Kelly, Jack L.; and Wiandt, Ronald K., 3,674,277.
 Kendall, Louis F., Jr.; and Bredt, James H., 3,650,844.
 Kendall, Louis F., Jr.; and Bredt, James H., 3,652,421.
 Kettler, Clarence J.; and Downs, Clifford L., 3,671,860.
 Kidd, Thomas L., Jr.; and McClain, Albert D., Jr., 3,676,943.
 Kierce, Eugene F., 3,667,037.
 Kim, Chang Soo; and Palmer, Gerald G., 3,691,628.
 Kim, Man Jin, 3,646,665.
 Kim, Sang-Chul, 3,635,647.
 Kim, Sang-Chul, 3,663,861.
 Kim, Sang-Chul, 3,669,607.
 Kim, Sang-Chul, 3,676,044.
 Kim, Sang-Chul, 3,694,697.
 King, Randall N., 3,692,584.
 Kingsley, Jack D.; and Prener, Jerome S., 3,664,862.
 Kippax, Donald L.; and Murphy, Kevin E., 3,679,766.
 Klassen, David Dubble, 3,689,177.
 Klebe, Johann F., 3,639,337.
 Klein, Keith W., 3,647,224.
 Klein, Keith W.; and Dimond, Herbert M., 3,671,890.
 Klint, Robert V., 3,665,350.
 Klompas, Nicholas, 3,687,569.
 Knight, Patrick E.; and Stapleton, Raymond D., 3,692,939.
 Koch, Rockne E., 3,684,354.
 Koff, Bernard L., 3,647,313.
 Koff, Bernard L., 3,688,371.
 Kokosa, Richard A., 3,681,667.
 Kolatorowicz, Edwin E.; and Volkmann, Werner K., 3,671,836.
 Kolatorowicz, Edwin E., 3,678,358.
 Konecny, Charles R., 3,669,758.
 Konrad, Charles E.; and Chausse, Burnette P., 3,641,566.
 Konrad, Charles E., 3,656,039.
 Kornumpf, William P.; and Cote, Paul T., 3,668,468.
 Kornumpf, William P., 3,697,716.
 Kornumpf, William P.; and Hamden, John D., Jr., 3,697,717.
 Kotos, Peter, 3,646,398.
 Kovel, James S.; Lommel, James M.; and Douglas, Thomas E., 3,637,442.
 Kramer, Morton, 3,635,895.
 Krantz, Karl W., 3,668,273.
 Krebs, James N.; and Paulson, Elmir E., 3,703,081.
 Krebs, James Norton; and Kappus, Peter G., 3,673,802.
 Krystyniak, Casimir W., 3,645,894.
 Kudlacik, Henry W.; and Willyoung, David M., 3,702,964.
 Kullman, William G., 3,700,856.
 Kunz, Charles O.; and Long, Parley C., 3,650,744.
 Kunz, Raymond W., 3,691,348.
 Kydd, Paul H., 3,658,439.
 Kydd, Paul H., 3,678,987.
 Kydd, Paul H.; and Day, William H., 3,693,347.
 La Selle, Rush V., 3,654,521.
 LaCombe, Donald J.; and Babcock, Guy L., 3,679,941.
 Laessig, Rudolf R., 3,647,314.
 Laessig, Rudolf Reinhold, 3,687,365.
 Lafferty, James M., 3,694,691.
 Lake, William H.; and Medendorp, Nicholas W., 3,666,986.
 Lake, William H., 3,700,960.
 Lampe, Warren R., 3,696,090.
 Larew, John J., 3,697,958.
 Laskowski, Edward L., 3,676,046.
 Laskowski, Edward L., 3,694,696.
 Lass, James L.; Ross, Wilfred T.; and Venier, Dominic A., 3,654,077.
 Latker, Alex; and Vandegraaf, Johannes J., 3,644,831.
 Lawrence, Howard; and Schaefer, Peter C., 3,670,403.
 Le Grand, Donald G., 3,679,774.
 Lederer, Edwin H., 3,706,409.
 Lee, Art, 3,656,005.
 Lee, Art, 3,673,413.
 Lee, Daeyong, 3,647,085.
 Lee, Daeyong, 3,686,041.
 Leete, Bernard D., 3,648,147.
 Lehnert, Robert J.; and Sugalski, Raymond K., 3,684,583.
 Lenz, Henry George, 3,675,056.
 Lenz, Henry George, 3,684,906.
 Lester, Frank Backus; Laurent, Robert Parker; and Titmore, Robert George, 3,696,704.
 Levine, David J.; and Sherrill, Bruce E., Jr., 3,647,497.
 Levine, David J.; and Levinstein, Moses A., 3,667,985.
 Liao, Tseng W., 3,641,251.
 Linger, Harris K., 3,632,982.
 Lippitt, David L.; and Schlunk, Rainer W., 3,660,256.
 Lit, Harry B.; and Hosker, James H., 3,693,806.
 Little, David W., 3,697,811.
 Livezey, John P.; and Rosser, Daniel B., 3,651,383.
 Livezey, John P.; and Rosser, Daniel B., 3,686,541.
 Loeb, Leopold, 3,647,354.
 Loft, Arne; and Johnson, Daniel, 3,638,422.
 Loika, Alexander, Jr., 3,706,061.
 Lootens, William F.; and Flowers, Joseph K., 3,706,915.
 Lord, Donald E., 3,654,529.
 Lord, Harold W., 3,639,782.
 Loyd, Raymond E., 3,680,258.
 Loyd, Raymond L., 3,685,427.
 Luborsky, Fred E.; and Skoda, Raymond E., 3,691,032.
 Lukens, Alan F.; Holden, Everett S.; and Jacobson, Chester F., 3,648,797.
 Lukens, Alan Franck, 3,643,119.
 MacKenzie, Burton T., Jr.; and Betts, Joseph E., 3,639,529.
 Mackzum, Stanley C., Jr., 3,631,994.
 Maher, William M., 3,656,018.
 Mann, Friedrich H.; and Schaefer, Henry A., 3,659,248.
 Mapother, Thomas C.; and Wilson, Richard L., 3,699,406.
 Marble, Chester B., 3,636,699.
 Markovitz, Mark, 3,687,872.
 Mars, James R.; and Ciepiela, Frederick S., 3,646,399.
 Martin, Donald L.; and Benz, Mark G., 3,676,577.
 Martin, Donald L., 3,682,714.
 Martin, Donald L., 3,682,715.
 Martin, Donald L.; and Benz, Mark G., 3,682,716.

Martin, Donald L., 3,684,591.
 Martin, Robert L., 3,659,246.
 Martin, Robert L., 3,694,790.
 Martin, William S.; and Chernoch, Joseph P., 3,633,126.
 Martyny, William C.; Miller, Victor W.; and Olwert, Ronald J., 3,706,895.
 Mason, Lowell M., 3,634,932.
 Mason, Lowell M., 3,702,498.
 Mason, William B.; and Houst, Douglas R., 3,649,896.
 Mathewson, Wilfred F., Jr.; and Ryon, David M., 3,684,097.
 May, Harley E., 3,678,736.
 Maylotte, Donald H., 3,679,461.
 Mc Cann, Joseph A.; and Harnden, John D., Jr., 3,699,402.
 McCann, Joseph A., 3,654,527.
 McCann, Joseph A., 3,706,129.
 McCarty, Clyde W., 3,678,499.
 McCarty, Orin P., 3,641,359.
 McCarty, William J., 3,680,328.
 McCarty, William V., 3,631,735.
 McCray, Michael L., 3,648,223.
 McEneny, Gregory E.; and Ekstedt, Edward E., 3,638,865.
 McHugh, James D., 3,704,019.
 McIntosh, Bruce C., 3,664,117.
 McMurray, William, 3,678,367.
 McQuarrie, Alexander M., 3,636,498.
 McQuarrie, Alexander M.; and Grady, James J., 3,689,837.
 Meek, Flora L.; and Eff, Christian A., 3,691,937.
 Meeks, Frederick T., 3,654,937.
 Meeks, Fredrick T., 3,632,083.
 Mefford, Carl R.; Lass, James L.; Smith, Bart A.; Venier, Dominic A.; and Trocki, Thomas, 3,697,376.
 Meier, Otto H.; and Leopold, Richard F., 3,670,863.
 Meier, Otto H., 3,704,772.
 Mentcher, Israel; and Thomas, Charles E., 3,648,636.
 Mets, Edwin J., 3,701,696.
 Meyer, Heinrich F.; and Minchow, Edward L., 3,645,156.
 Michon, Gerald J.; and Burke, Hubert K., 3,662,356.
 Mihran, Theodore G.; and Neugebauer, Wendell., 3,644,778.
 Miller, Charles J., 3,636,341.
 Miller, David E.; and Heil, Robert C., 3,662,163.
 Miller, Dewitt H., 3,671,859.
 Miller, Richard H., 3,701,866.
 Millis, Walter T., 3,662,211.
 Milton, Robert T., 3,659,229.
 Minnich, Stephen H., 3,643,002.
 Mioduski, George T., 3,675,051.
 Miske, Stanley A., Jr., 3,663,856.
 Mitchell, Michael E., 3,639,901.
 Mitchell, Roy O.; and Schmid, Hermann, 3,696,305.
 Mitofe, Stephan P.; and Will, Fritz G., 3,703,415.
 Mitoff, Stephan P., 3,672,994.
 Moore, George E.; and Tomlinson, Lee H., 3,660,041.
 Moore, George E., 3,672,839.
 Morton, Charles G., 3,666,596.
 Mossey, Paul W., 3,696,678.
 Motsinger, Russell E.; and Smith, Edwin B., 3,693,749.
 Mullaly, Jerome R., 3,675,045.
 Mullersman, Ferdinand H.; and Rockey, Robert E., 3,665,285.
 Mundy, Joseph L., 3,701,980.
 Mundy, Joseph L., 3,705,390.
 Nakata, Roy; and Oppel, John A., 3,670,222.
 Nash, Dudley O., 3,687,374.
 Nedreski, Robert Joseph, 3,704,556.
 Nesbitt, Loyd B.; and Fleming, Robert B., 3,692,099.
 Neuhauser, Donald E., 3,676,739.
 Newberry, Sterling P., 3,639,803.
 Newmark, Larry J., 3,633,880.
 Nichols, Thomas G., 3,668,583.
 Niedrach, Leonard W.; and Grubb, Willard T., 3,635,763.
 Niedrach, Leonard W.; and Stoddard, William H., Jr., 3,673,069.
 Niedrach, Leonard W.; and Stoddard, William H., Jr., 3,703,457.
 Niedrach, Leonard W.; and Grubb, Willard T., 3,705,088.
 Noble, Milton L., 3,652,162.
 Noble, Philip S.; and Chapin, James R., 3,700,128.
 Norton, Allyn S., Jr., 3,693,427.
 Nuckolls, Joe A., 3,633,036.
 Nuckolls, Joe A., 3,678,371.
 O'Brien, John F.; and Ouellette, Herve J., 3,662,646.
 Orlando, Charles M., 3,658,817.
 Orlando, Charles M.; Wirth, Joseph G.; and Heath, Darrell R., 3,673,202.
 Orth, Edward D.; and Yerman, Alexander J., 3,697,917.
 Orth, Edward D.; and Yerman, Alexander J., 3,697,918.
 Orth, Edward D.; and Kessel, Alvan A., 3,697,919.
 Osteen, Mitchell M.; and Grindle, James L., 3,643,088.
 Osteen, Mitchell M., 3,661,685.
 Osteen, Mitchell M.; and Grindle, James L., 3,662,165.
 Osteen, Mitchell M.; and Grindle, James L., 3,678,263.
 Ostrognai, Allen Gilbert, 3,638,470.
 Otto, Charles W., 3,685,773.
 Padgett, George L., 3,705,502.
 Pagnotta, Gaspar; and Kiesler, Allan J., 3,639,722.
 Parker, Harold F., 3,673,503.
 Paynter, John; and Morgan, John R., 3,649,361.
 Paynter, John; and Morgan, John R., 3,649,365.
 Pearl, Wesley L., 3,663,725.
 Peil, William, 3,665,507.
 Peil, William; Daino, Peter R.; and Sauter, Lon J., 3,705,367.
 Perusek, Ronald J., 3,669,763.
 Pest, Jurgen, 3,649,769.
 Peterson, David D., 3,673,017.
 Peterson, Marvin A., 3,652,500.
 Peterson, Marvin A., 3,663,510.
 Pettersen, Thomas P., 3,659,129.
 Phelps, Dolphus H., 3,704,964.
 Piccone, Dante E.; and Somos, Istvan, 3,662,250.
 Pieper, Louis W.; and Kerr, Robert O., 3,638,606.
 Pineo, Carroll Benson, 3,692,372.
 Pitha, John J., 3,698,920.
 Plemmons, Jerry R.; and Raymond, Mark H., 3,705,300.
 Plette, David L., 3,641,418.
 Polonsky, Samuel; and Boyles, Robert L., 3,683,524.
 Popadick, Carl C.; and Talento, Joseph L., 3,657,799.
 Powell, David B., 3,663,773.
 Powell, John M.; and Frazier, Lauren L., 3,678,701.
 Powell, Walter F., 3,679,931.
 Pratt, Richard D., 3,668,052.
 Puckette, Charles M., 3,654,390.
 Puckette, Charles McDonald, 3,659,209.
 Quillinan, John H.; and Mackey, Edward F., 3,699,341.
 Quine, John P., 3,680,002.
 Rabatin, Jacob G.; and Bradshaw, Evelyn, 3,666,676.
 Rairden, John R., III, 3,639,165.
 Rairden, John R., III, 3,655,544.
 Raleigh, William J., 3,654,195.
 Ralston, Bobby J., 3,633,622.
 Rampel, Guy, 3,660,170.
 Rate, Edward T., Jr., 3,660,707.
 Razzano, John S.; and Smith, Alfred H., 3,700,473.
 Reader, Trevor D., 3,662,772.
 Redington, Rowland W., 3,698,078.
 Reece, Paul; and Graham, Peter H., 3,652,889.
 Reitz, Roderick, 3,706,009.
 Relles, Howard M., 3,696,158.
 Relles, Howard M., 3,700,743.
 Renner, Charles F.; and Lipstein, Norman J., 3,648,086.
 Rexford, Donald L., 3,631,874.
 Rexford, Donald L., 3,654,943.
 Rhoades, John M., 3,671,727.
 Rhoades, John M., 3,679,955.
 Rhoades, John M., 3,704,641.
 Rhoades, John M.; and Cooper, Carroll C., 3,705,339.
 Rich, Joseph A., 3,643,047.
 Rich, Joseph A., 3,679,474.
 Richardson, Hugh H., 3,701,877.
 Riley, John E., 3,662,275.
 Riley, John Edward, 3,678,373.
 Ringeman, Othmar E., 3,641,381.
 Ringwall, Carl G., 3,672,235.
 Ringwall, Carl G.; and Shah, Rasik P., 3,672,388.
 Ringwall, Carl G., 3,695,283.
 Robb, Robert E., 3,655,906.
 Rodbell, Donald Stanley; and Lommel, James M., 3,700,500.
 Ross, Earl Warren; and Mc Henry, Howard Thomas, 3,642,469.
 Rowen, William I., 3,639,076.
 Rubin, Bernard F.; Larson, Charles L.; and Grossman, Leonard N., 3,632,470.
 Ryckman, William D., Jr., 3,702,031.
 Ryckman, William D., Jr., 3,703,170.
 Ryder, Raymond B., 3,657,469.
 Sahn, William H., III; and Shepeavy, Taras, 3,660,687.
 Salahshourian, Hooshang, 3,644,662.
 Salahshourian, Hooshang, 3,665,602.
 Sauer, Walter Edwin; and Klemas, Vytautas, 3,665,300.
 Schaefer, Donald L.; and Wilson, Ronald H., 3,664,895.
 Schaefer, Donald L., 3,672,992.
 Scheldorf, Owen H.; and Gordon, James F., 3,690,120.
 Schilling, Arthur G., 3,647,925.
 Schlaudroff, Leo M., 3,703,854.
 Schlesinger, Kurt, 3,666,985.
 Schlesinger, Kurt, 3,681,651.
 Schmid, Hermann, 3,686,493.
 Schmidt, Ferenc J., 3,669,849.
 Schmidt, Herman, 3,676,656.
 Schmitt, Nikolas, 3,693,036.
 Schroeter, Siegfried H., 3,660,409.
 Schroeter, Siegfried H., 3,673,216.
 Schroeter, Siegfried H., 3,660,260.
 Schulz, Max W., Jr., 3,681,976.
 Schulze, James L., Sr., 3,643,930.

Schumacher, Walter C., 3,662,324.
 Schumacher, Walter C., 3,680,031.
 Schuning, Kenneth W.; and Carlson, Eugene E., 3,699,773.
 Scott, Ernest R., 3,654,661.
 Seader, William R., 3,654,510.
 Seeliger, Kurt George, 3,662,619.
 Selin, Terry G., 3,642,694.
 Senft, Stephen P., 3,679,385.
 Senft, Stephen P., 3,689,799.
 Sensabaugh, Paul F., 3,633,151.
 Setser, James L.; and Schneider, Eugene P., Jr., 3,635,764.
 Sexton, Charles W., Jr., 3,686,517.
 Seybolt, Alan U., 3,703,369.
 Sharp, William T., 3,691,332.
 Shaw, Harvey P., 3,701,753.
 Sheldon, Gary S., 3,642,597.
 Sherman, Ralph R., Jr., 3,644,832.
 Shinn, Jeffrey N.; and Ringwall, Carl G., 3,672,231.
 Shinn, Jeffrey N., 3,678,881.
 Shipley, Gerald E.; and Girard, Robert R., 3,638,428.
 Siegel, Harvey V., 3,691,654.
 Sigsbee, Raymond A.; and Wilson, Ronald H., 3,693,003.
 Simpson, Kenneth R., 3,681,637.
 Sims, Marion W., 3,670,408.
 Sirrine, Richard C.; and Stein, Leonard, 3,653,120.
 Slomski, Stanley L., 3,700,881.
 Slonneger, John L., 3,648,214.
 Smith, Alfred H., 3,635,743.
 Smith, Bart A.; Lass, James L.; and Venier, Dominic A., 3,689,358.
 Smith, Carl L.; and Nicklas, William H., 3,653,112.
 Smith, Chester A.; and Stoddard, William M., 3,633,057.
 Smith, Dallas F., 3,698,063.
 Smith, Donald N., 3,694,643.
 Smith, Douglas F., 3,679,894.
 Smith, Harold J., 3,693,127.
 Smith, James S., Jr., 3,689,697.
 Smith, John A., 3,657,503.
 Smith, Ronald L., 3,663,282.
 Smith, Stanley D.; and Hamilton, Stephen B., Jr., 3,689,454.
 Smith, Thomas F.; and Frederick, Richard E., 3,704,762.
 Snyder, Paul V., 3,658,050.
 Snyder, Paul V., 3,684,860.
 Snyder, Paul V., 3,693,538.
 Sobieski, John C., 3,685,880.
 Spacil, Henry S., 3,635,812.
 Spalding, James R., 3,640,363.
 Spangler, Frederick E.; and Wetherell, Daniel L., 3,662,459.
 Spiller, William H., 3,673,488.
 Staples, Paul R., 3,656,182.
 Staub, Fred W., 3,677,338.
 Stearns, Eldon M., 3,703,808.
 Stegmaier, Louis T., 3,632,935.
 Stenger, Richard E.; and Gleason, Clifford C., 3,653,207.
 Stephens, Joe F., 3,641,380.
 Sterling, John E., 3,635,043.
 Stetson, Earl W., 3,671,797.
 Stetson, Earl W., 3,671,800.
 Stratton, Jerry L.; and Kessler, George W., 3,637,319.
 Strout, Frederick D., 3,675,232.
 Studinka, Josef; and Gabler, Rudolf, 3,706,702.
 Sturgess, Geoffrey John; Hoffman, Jacob Sherman; Vdoviak, John William; and Hirschkron, Robert, 3,703,259.
 Susdorf, Robert A.; and Armstrong, Fredrick J., 3,654,504.
 Swartz, Paul S.; and Westendorp, Willem F., 3,646,394.
 Swerdlow, Nathan, 3,646,245.
 Tachick, Henry N., 3,639,833.
 Tachick, Henry N., 3,646,503.
 Tachick, Henry N.; and Belcher, James E., 3,662,297.
 Taj, Hatim H., 3,691,291.
 Talento, Joseph L., 3,686,456.
 Tan, Richard M., 3,688,637.
 Tarshis, Lemuel A.; and Walker, James L., 3,690,874.
 Tarshis, Lemuel A.; Walker, James L.; and Berry, Thomas F., 3,696,500.
 Taylor, Jack R., 3,631,674.
 Taylor, Jack R., 3,667,221.
 Tedmon, Craig S., Jr.; and Spacil, Henry S., 3,639,177.
 Tefft, Edward G., 3,639,975.
 Tew, Walter Hosey, Jr., 3,648,037.
 Tew, Walter Hosey, Jr., 3,689,884.
 Thomas, Richard K., 3,680,112.
 Thomasson, Gene I.; and Parillo, Edward V., 3,634,056.
 Thompson, Paige W., 3,654,578.
 Thompson, Richard L., 3,694,649.
 Tiemann, Jerome J., 3,639,699.
 Tiemann, Jerome J.; and Gitzendanner, Louis G., 3,673,353.
 Timperman, Eugene L., 3,700,189.
 Titterington, William Alexander; Milgate, Robert White, Jr.; and Gallagher, John Peter, 3,653,969.
 Titus, Charles H.; and Schneider, Harold N., 3,674,912.
 Tomiyasu, Kiyo, 3,665,335.
 Tomiyasu, Kiyo, 3,694,911.
 Tomlinson, Lee H., 3,670,479.
 Tsen, John Bor-Sow, 3,653,224.
 Tuft, Bernard R., 3,643,136.
 Turner, Prescott K., 3,668,779.
 Uehling, Donald E., 3,632,221.
 Uehling, Donald E., 3,641,766.
 Umbaugh, Charles Wayne, 3,697,837.
 Van der Grinten, Willem J.; and Jernakoff, George, 3,641,340.
 Van Der Linde, John R.; and Fairey, Lyle W., 3,694,715.
 Van Sorge, Bernardus J., 3,707,569.
 Vedder, Willem; and Vermilyea, David A., 3,672,822.
 Venables, Herbert J., III, 3,688,375.
 Verma, Jugal K., 3,644,986.
 Vrabeli, Edward A.; and Cuzzzone, Raymond, 3,699,491.
 Wachter, Robert A., 3,680,825.
 Wafart, Theodore A., Jr., 3,656,203.
 Wagner, James B., 3,635,578.
 Wagner, Tomes B., 3,688,872.
 Walker, Wendell C.; and Davidson, William E., 3,664,045.
 Walsh, Henry, Jr., 3,668,588.
 Walter, John L.; Cline, Harvey E.; and Cobine, James D., 3,655,368.
 Wanger, Robert P., 3,640,487.
 Ward, William J., III, 3,676,220.
 Watrous, Donald L.; and Cote, Paul T., 3,676,045.
 Waugh, Richard A., 3,699,785.
 Weaver, Earle R., 3,697,383.
 Weichbrodt, Bjorn; and Darrel, Bernard, 3,677,072.
 Weininger, Joseph L.; and Holub, Fred F., 3,673,127.
 Weinstock, Irwin B., 3,681,673.
 Welch, Stanley B.; and Dills, Raymond L., 3,684,853.
 Welling, Leroy U. C., 3,686,547.
 Westendorp, Willem F., 3,671,902.
 Whipple, Edward R., 3,675,444.
 Whistler, William T., 3,659,227.
 White, Dwain M., 3,703,564.
 White, Frederick M., 3,664,207.
 Whitten, James Robert, 3,643,173.
 Whitten, James Robert, 3,680,114.
 Wielt, Warren Pierce, 3,662,195.
 Wilfore, John F., 3,681,255.
 Wilk, Edmund J., 3,638,302.
 Wilkus, Edward V.; and Berger, Abe, 3,637,750.
 Willard, Henry G., 3,657,604.
 Willard, Henry G., 3,693,122.
 Williams, Milton S., Jr.; and Eff, Christian A., 3,633,491.
 Williams, Raymond L., 3,631,677.
 Willis, Candler A., Jr.; and Judge, John R., 3,705,303.
 Willyoung, David M., 3,660,705.
 Wilson, Austin F., 3,656,370.
 Winn, Oliver H., 3,670,333.
 Winn, Oliver H., 3,691,435.
 Wirth, Joseph G., 3,676,448.
 Witting, Harald L., 3,683,226.
 Wolfram, Adolf Egmont, 3,671,869.
 Wood, David L., 3,662,164.
 Wood, Robert F., 3,646,253.
 Worcester, Joseph A., 3,634,700.
 Worcester, Joseph A., 3,665,319.
 Worcester, Joseph A., 3,676,781.
 Worst, Joseph C., 3,662,197.
 Worst, Joseph C., 3,670,533.
 Wright, Archibald N., 3,635,750.
 Wright, Archibald N.; and Merrill, Richard C., 3,664,899.
 Wright, Archibald N.; and Merrill, Richard C., 3,665,269.
 Wright, Archibald N.; Mimeault, Victor J.; and Wilkus, Edward V., 3,673,054.
 Wright, Archibald N., 3,677,800.
 Wright, Jack D.; and Howald, Werner E., 3,632,224.
 Wright, John H., 3,664,953.
 Wright, John H., 3,669,884.
 Wright, John H., 3,671,429.
 Wright, John H., 3,673,089.
 Wynn, Michael J., 3,704,260.
 Yerman, Alexander J., 3,679,992.
 Young, James Roger, 3,672,789.
 Ziemba, Richard T., 3,670,652.
 Zimmer, John S., 3,643,185.
 Zubler, Edward G., 3,679,285.
 General Electric Company Limited; formerly General Electric and English Companies Limited: See—
 Kell, Robert Christopher; Rendle, David Forbes; and Riches, Eric Edward, 3,696,314.
 General Electric Company Limited, The: See—
 Flynn, Adrian Francis, 3,665,292.
 Jacobs, Michael Lawrence, 3,697,704.
 Smithers, Ronald, 3,643,033.
 Wayman, Cecil John, 3,675,235.
 General Electric Company, mesne: See—

Jahns, Frederick William, Jr., 3,677,882.
 General Electric Corporation: *See*—
 Colling, Ronald L.; and Trenne, Myron U., 3,702,424.
 General Electrodynamics Corporation: *See*—
 Salgo, Reinhold C., 3,649,866.
 General Engineering Company (Radcliffe) Limited: *See*—
 Schofield, Richard Westwell, 3,647,153.
 General Equipment Co.: *See*—
 Von Ruden, Raymond E., 3,658,139.
 General Felt Industries, Inc.: *mesne: See*—
 Bahlo, Jurgen F., 3,704,197.
 General Fire Extinguisher Corporation: *See*—
 Balmes, Mark E., Sr., 3,675,722.
 Utesch, George A., Jr., 3,642,071.
 General Fireproofing Company, The: *See*—
 Dupuis, Jean, 3,680,911.
 Fusselman, Robert M., 3,646,634.
 Hage, Carl H., 3,636,894.
 Hage, Carl H., 3,641,620.
 Hage, Carl H., 3,656,651.
 Hensch, Earl John; and Ogilvie, LeRoy Francis, 3,647,101.
 Johnson, Ronald C., 3,664,716.
 Textoris, Melvin A., 3,642,244.
 Textoris, Melvin A., 3,705,704.
 General Foam Plastics Corporation: *See*—
 Chase, Ascher, 3,665,523.
 Chase, Ascher, 3,668,715.
 General Food Corporation: *See*—
 Mancuso, John J.; Litchult, Theodore F.; and Dolezal, Foods M., 3,653,911.
 General Foods Corporation: *See*—
 Bach, Heinz; Bottger, Max; and Pabst, Heinrich, 3,652,292.
 Barton, Ralph L.; and Erwin, John C., 3,656,967.
 Bentz, Alan P.; and Mezzino, Joseph F., 3,666,494.
 Bentz, Alan P.; and Scarpellino, Richard, 3,676,156.
 Buck, Marvin E.; and Smith, Brian W., 3,653,908.
 Cassanelli, Robert R.; Wauters, Ronald P.; Wirchansky, Anastasia C.; and Wyss, Clement R., 3,702,254.
 Cousins, Morison S.; Klawson, Rennold L.; and Watson, Roy, 3,700,146.
 Cox, Raymond E.; and Ehrlich, Robert M., 3,681,086.
 Cseri, Joseph; Halik, Joseph John; and Kaplow, Milton, 3,655,400.
 Dame, Charles, Jr.; Stinson, William S., Jr.; and Capossela, Anthony C., 3,647,474.
 De Graw, William E., 3,645,423.
 D'Ercole, Augustine D., 3,669,687.
 Dwyer, Daniel E., 3,653,929.
 Easton, Harry T.; and Dwyer, Daniel E., 3,682,650.
 Ehr Gott, Charles Warren, 3,635,727.
 Einstman, William J.; Ponzone, George B.; and Leonard, Richard J., 3,706,572.
 Elerath, Byron Everett, 3,637,398.
 Finucane, Thomas P.; and Capasso, Philip J., 3,702,768.
 Friedman, Herman H.; and Pennelle, Donald K., 3,649,296.
 Friedman, Herman H., 3,664,845.
 Glasser, George; Hollis, Frank; and Kaplow, Milton, 3,655,404.
 Glasser, George; and Cseri, Joseph, 3,655,409.
 Glasser, George; Sjonvall, Ragnar Edward; and Kaplow, Milton, 3,676,154.
 Glicksman, Martin; Farkas, Elizabeth H.; and Carter, Sadie., 3,676,150.
 Grieve, Harold R., 3,640,446.
 Haas, Gerhard J., 3,658,548.
 Halik, Joseph John, 3,655,401.
 Howland, Robert F.; Haigh, Joseph B., II; and Fusi, Robert W., 3,694,226.
 Kaplow, Milton; and Halik, Joseph J., 3,634,104.
 Kaplow, Milton; and Klose, Robert E., 3,640,731.
 Kaplow, Milton; and Halik, Joseph John, 3,694,233.
 Lawrence, Norman F., 3,686,000.
 Lee Chi-Hang; and Feldman, Jacob Richard, 3,695,899.
 Mahlmann, James P.; Coogan, Joseph F., III; and Mazzaferro, Gene Alfred, 3,706,574.
 Mansky, Michael H.; and Pitchon, Esra, 3,656,964.
 Mednis, Edmar J., 3,660,108.
 Mitchell, William A.; and Seidel, William C., 3,657,010.
 Mitchell, William A.; and Klose, Robert, 3,682,648.
 Moores, Ralph G.; and Teitelbaum, Charles L., 3,644,127.
 Oldershaw, Charles G. Peter, 3,653,418.
 Orozovich, George, 3,682,649.
 Panzer, Hans P.; Yare, Robert S.; and Forbes, Malcolm R., 3,669,679.
 Parilment, Thomas H.; Clinton, William P.; Scarpellino, Richard; Soukup, Robert J.; and Epstein, Martin F., 3,655,397.
 Pitchon, Esra, 3,644,123.
 Pitchon, Esra, 3,653,910.
 Pitchon, Esra; Gottesman, Martin; and Meier, Robert W., 3,655,398.
 Pitchon, Esra; and Earle, Ernest L., Jr., 3,655,399.

Ponzone, George Bernard; Protomastro, Michael Gabriel; and Stefanucci, Arthur, 3,634,094.
 Scharschmidt, Rudolph K., 3,676,151.
 Shoaf, Myron D.; Ketch, Frederick M.; and Wong, Thomas S., 3,669,681.
 Sienkiewicz, Boleslaw; and Bagley, Ferdinand A., 3,695,165.
 Tower, Horace L., 3,655,089.
 Wilkins, Howard, 3,693,864.
 Woodruff, George M.; Stoeckli, Oscar W.; and Shando, Joseph G., 3,672,264.
 Woodruff, George M.; Schoonmaker, Donald; Daniels, David; and Waxler, Burton S., 3,691,718.
 Woodruff, George M.; Stoeckli, Oscar W.; and Shando, Joseph G., 3,698,154.
 Yeransian, James A., 3,644,122.
 General Foods Corporation: *mesne: See*—
 Carlson, Paul O.; Cohan, Allan N.; and Gray, Jack C., 3,658,552.
 General Gas Light Company: *See*—
 Loveless, Stanley M., 3,661,182.
 Loveless, Stanley M., 3,665,813.
 General Housewares Corporation: *See*—
 Shull, Robert W.; and Thompson, Ronald, 3,704,663.
 General Impact Extrusions (Manufacturing) Ltd.: *See*—
 Rieder, Otto E., 3,668,757.
 General Industries Company, The: *See*—
 Bubbs, Daniel F.; and Callihan, James M., 3,692,428.
 Coleman, Howard R., 3,649,092.
 Schuster, John R., 3,661,433.
 General Industries, Inc.: *See*—
 Grenier, Wilfred J., 3,689,027.
 Grenier, Wilfred J., 3,698,684.
 Grenier, Wilfred J., 3,702,160.
 General Inetics Inc.: *See*—
 Whyson, Dale C.; and Leininger, Dale E., 3,688,300.
 General Instrument Corporation: *See*—
 Bernstein, Bernard, 3,638,073.
 Chesney, John; Friberg, Vincent P.; and Phelps, Richard B., 3,657,628.
 Friberg, Vincent P., 3,657,654.
 Heinis, Robert P., 3,662,306.
 Hiday, David R.; and Mull, Ralph L., Jr., 3,679,990.
 Jacob, Abraham H.; and Franke, John L., 3,701,869.
 Keen, Ralph S., Jr., 3,700,508.
 Klein, Leonard F., 3,638,047.
 Kruczek, Chester R., 3,644,848.
 Mears, Donald B., Jr., 3,635,097.
 Mowrey, Albert C.; Huiskes, John H.; and Brand, Abraham, 3,706,085.
 Popper, Jay D., 3,678,293.
 Robertson, Alexander, 3,706,232.
 Russell, Edward J., 3,647,644.
 Smith, Kent F.; and Wanlass, Frank M., 3,657,557.
 Smith, Kent F., 3,683,203.
 Vance, James T., 3,696,401.
 Varadi, Andrew G.; Rubinstein, Richard B.; and Radoff, Steven, 3,691,534.
 White, Donald J.; and Navin, William R., Jr., 3,641,484.
 Zimbelmann, Henry Peter, 3,638,036.
 Zopf, Vincent R., 3,633,178.
 General Instrument Corporation: *mesne: See*—
 Baker, Lamar T., 3,644,904.
 Baker, Lamar T., 3,644,905.
 Baker, Lamar T., 3,656,119.
 Cohen, Burton E., 3,649,851.
 Sheppard, John E.; and Pellechia, Vincent J., 3,667,925.
 General Instrument Microelectronics Ltd.: *See*—
 Campbell, David, 3,644,750.
 Clifford, Colin, 3,649,815.
 General Instruments Corporation: *mesne: See*—
 Schlegel, Earl S.; and Schnable, George L., 3,644,804.
 General Kinematics Corporation: *See*—
 Musschoot, Albert, 3,677,395.
 Musschoot, Albert, 3,706,372.
 General Kinetics, Inc.: *See*—
 Guterman, Robert P.; and Washington, Le Baron H., 3,701,565.
 Guterman, Robert P.; and Washington, Le Baron H., 3,702,656.
 Whyson, Dale C.; Leininger, Dale E.; and Young, Herbert D., 3,674,559.
 General Laboratory Associates, Inc.: *See*—
 Knudson, Louis I.; Frink, Richard C.; and White, Charles H., 3,671,788.
 General Latex and Chemical Corporation: *See*—
 Junas, Thomas B.; and La Torre, Augustin, 3,652,497.
 Segur, Donald L.; and Garey, Harold E., Jr., 3,652,508.
 General Logistics Corporation: *See*—
 Fleischauer, Fred J.; and Hammond, Theodore A. (said Fleischauer assor. to), 3,650,375.

Fleischauer, Fred J.; and Hammond, Theodore (said Fleischauer assor. to), 3,696,912.
 General Medical Corporation: *mesne: See*—
 Peters, Joseph C.; and Ziermann, Hermann, 3,659,598.
 Ziermann, Hermann, 3,699,990.
 General Microwave Corporation: *See*—
 Hopfer, Samuel, 3,694,746.
 General Mills Chemicals, Inc.: *See*—
 Coury, Arthur J., 3,707,496.
 Haugh, John C., 3,666,702.
 Jachimowicz, George A.; Minatelli, Mark A.; and Preston, Harold M., 3,666,695.
 Mac Kay, Kenneth D.; Rogier, Edgar R.; and Kreevoy, Maurice M., 3,707,495.
 General Mills Fun Group, Inc.: *See*—
 Tabor, Joseph M.; and Betker, Ted C., 3,678,607.
 General Mills Fun Group, Inc.: *mesne: See*—
 Stine, George H., 3,646,887.
 General Mills, Inc.: *See*—
 Anker, Charles A., 3,642,498.
 Anker, Charles A.; Foster, George A., Jr.; and Loader, Mary Ann, 3,653,925.
 Ball, Murray E.; and Demeny, Le Roy M., 3,656,966.
 Blixrud, John O.; Knigge, Wayne I.; Rustad, Stanley C.; and Tsuchiya, Takuzo, 3,672,294.
 Blomberg, Erwin L., 3,656,972.
 Christianson, George, 3,686,001.
 Cummisford, Patricia D.; and Beck, Charles I., 3,703,379.
 Dunning, Herbert N.; Strommer, Palmer K.; and Vanhulle, Glenn J., 3,707,380.
 Glaser, David W.; and Whyzmuzis, Paul D., 3,652,469.
 Harrison, Stuart A.; and Stokes, Kenneth B., 3,645,932.
 Hasten, Mark; Jones, Lee S.; and Pommer, Denis L., 3,646,894.
 Hum, Allen S., 3,695,894.
 Johnson, Ernest W., 3,640,732.
 Johnson, Ernest W., 3,682,654.
 Jordan, Wesley A., 3,666,577.
 Kamal, Marwan R.; and Kuder, Robert C., 3,644,465.
 Kamal, Marwan R.; and Kuder, Robert C., 3,647,852.
 Kamal, Marwan R.; and Kuder, Robert C., 3,647,853.
 Kamal, Marwan R.; and Kuder, Robert C., 3,691,225.
 King, Charles W., 3,677,769.
 Koski, William E.; Smith, Donald E.; and Touba, Ali R., 3,653,912.
 Kreevoy, Maurice M.; and Popowitz, Dolores E., 3,649,298.
 Kuder, Robert C., 3,637,801.
 Kuder, Robert C., 3,639,338.
 Kuder, Robert C., 3,641,144.
 Kuder, Robert C.; and Kamal, Marwan R., 3,661,993.
 Kuder, Robert C., 3,689,537.
 Kuder, Robert C.; and Kamal, Marwan R., 3,691,223.
 Mattison, Philip L.; and Swanson, Ronald R., 3,655,347.
 Maxwell, Donald L.; and Nyberg, Philip E., 3,671,265.
 Maxwell, Donald L., 3,690,896.
 Mullen, Joseph D., 3,635,836.
 Mullen, Joseph D.; Ogrins, Alide; and Touba, Ali R., 3,637,400.
 Nazy, John R.; and Kuder, Robert C., 3,634,486.
 Nazy, John R.; and Kuder, Robert C., 3,634,516.
 Norsby, Norrain E.; and Johnson, Ernest W., 3,692,535.
 Norsby, Norrain E.; Kozlik, Robert F.; and Roach, John R., 3,694,229.
 Peterson, Lowell E.; and Elmquist, Lyle F., 3,649,331.
 Schilling, Eugene D.; and Burchill, Phyllis I., 3,674,506.
 Speech, Steven R.; Opie, Joseph W.; and Bridge, John A., 3,647,472.
 Stokes, Kenneth B., 3,634,118.
 Straughn, Robert O.; and Reinhart, Richard D., 3,653,916.
 Strommer, Palmer K.; Valentas, Kenneth J.; and Dunning, Herbert Neal, 3,656,965.
 Touba, Ali R., 3,650,763.
 Touba, Ali R., 3,666,491.
 Touba, Ali R., 3,682,655.
 Vertnik, Leonard R., 3,664,980.
 Wahba, Issac J.; Padmos, Daniel F.; and Ma, Shao-Mu, 3,653,917.
 Yueh, Mao Hsun, 3,647,482.
 Yueh, Mao Hsun; and Schilling, Eugene D., 3,679,658.
 Yueh, Mao Hsun, 3,681,283.
 Yueh, Mao Hsun, 3,689,419.
 General Monitors, Inc.: *See*—
 Ward, William H., Jr., 3,678,513.
 General Motors Corporation: *See*—
 Abel, William E., 3,703,613.
 Abu-Isa, Ismat A., 3,681,114.
 Abu-Isa, Ismat A., 3,694,249.
 Abu-Isa, Ismat A., 3,695,917.
 Ackerman, Tracy R.; and Schickler, John F., 3,674,087.
 Addie, Albert N., 3,667,214.
 Addie, Albert N., 3,699,351.
 Albers, Walter A., Jr., 3,671,309.

Alexander, Arthur W.; and Renner, Glen R., 3,659,188.
 Amann, Charles A.; and Rucins, Erik H., 3,657,881.
 Anderson, Willis H.; and Graddy, Willard E., 3,691,323.
 Annis, Robert E., 3,633,439.
 Anthony, Robert C., 3,656,423.
 Arida, Louis K.; Gionet, Edmond R.; and Gunlock, Donald E., 3,656,807.
 Arlauskas, Alfonsas; and Rogers, Lloyd W., Jr., 3,692,328.
 Armstrong, Daniel A., 3,702,207.
 Arnold, Guenther, 3,665,783.
 Arntson, Gary L., 3,702,081.
 Arntson, Gary L.; and Rasmussen, Tom, 3,703,106.
 Atkinson, Ward J.; and Cole, Edward N., 3,646,876.
 Avdenko, Anatol; and Erway, Bruce C., 3,657,720.
 Bailey, Donald J.; and Brewer, Earl G., 3,694,269.
 Bailey, Keith A.; and Marlow, Jerry R., 3,682,043.
 Bain, Douglas G.; and Hartmeyer, James J., 3,692,992.
 Bakewell, Thomas W., 3,667,767.
 Bakewicz, Frank J.; and McGarvey, Robert G., 3,690,722.
 Ballou, Richard P., 3,657,553.
 Ballou, Richard P., 3,671,802.
 Barnhardt, Keith F., 3,666,528.
 Barnum, Thomas G., 3,688,297.
 Barr, Paul N.; and Gambill, Charles C., 3,683,871.
 Barton, James F., Jr.; and Cray, William G., 3,634,991.
 Bassett, Arthur T., Jr., 3,685,311.
 Bassett, Arthur T., Jr., 3,686,892.
 Baughan, Michael L., 3,702,459.
 Bayre, Willard W., 3,699,805.
 Beakes, Benjamin L., 3,691,866.
 Beard, Jack H., 3,693,085.
 Beatenbough, Paul K.; and Gardner, John A., Jr., 3,658,243.
 Beatenbough, Paul K.; and Scherer, Carl A., 3,702,066.
 Beehler, Larry A.; and Templin, Jackson R., 3,700,165.
 Begovich, Charles, 3,683,493.
 Bell, Albert H., III, 3,680,983.
 Bellware, James D., 3,688,332.
 Bellware, James D., 3,699,605.
 Benner, Robert James; Huxtable, Frank W., Jr.; and Jones, Joseph H., 3,633,609.
 Bennethum, James E., 3,699,770.
 Bennethum, James E., 3,699,929.
 Bennett, John L.; and Bonfiglio, Charles P., 3,665,560.
 Bennett, Ronald W.; Parker, Donald L.; and Shaw, Arthur R., 3,675,197.
 Bernard, James A., 3,662,642.
 Betz, David W., 3,653,283.
 Beveridge, Thomas R.; and Ranft, Ernst L., 3,683,597.
 Beyerlein, David G.; and Sweet, Douglas W., 3,680,655.
 Bierlein, John C.; De Hart, Arnold D.; and Handwerker, Louis W., Jr., 3,705,753.
 Bird, Melvyn R., 3,645,589.
 Bird, Melvyn R.; Christiansen, Paul J.; and Zeigler, Philip B., 3,645,590.
 Blancha, Erwin B., 3,667,681.
 Bleil, Carl E., 3,638,304.
 Bleil, Carl E., 3,681,033.
 Blow, Robert H., Jr., 3,685,606.
 Bly, Kenneth B.; and Mills, Donald S., 3,635,791.
 Bonneville, Gerald D.; Hetke, Adolf; and Free, William N., 3,702,169.
 Borman, August H.; Green, Lawrence E.; and Wonn, Quinby E., 3,642,107.
 Bourbeau, Frank J., 3,681,676.
 Bowman, Karl R.; Jemison, Lawrence L., Jr.; and Parker, Orval H., 3,692,387.
 Bracken, Joseph W., Jr.; Davidson, Roger A.; and Thebert, Glenn W., 3,688,497.
 Bradley, Thomas W., 3,662,492.
 Bradley, Thompson G.; and Swinkels, Dominicus A. J., 3,674,567.
 Brainard, Norman R.; and Holl, William H., 3,647,017.
 Brainerd, Wendell C., 3,668,627.
 Breece, Burton W.; and Summerer, Raymond Edwin, 3,636,509.
 Brewer, Lee M., 3,703,186.
 Brewer, Lee M.; and Rohde, Robert P., 3,705,685.
 Brewer, Robert W., 3,703,245.
 Bright, James A., 3,680,022.
 Brocman, Henry J.; and Sandor, Bela, 3,679,251.
 Brooks, Frank W.; and Naismith, Thomas D., 3,670,853.
 Brooks, Frank W.; and Gebhart, Norman L., 3,705,641.
 Brooks, Rodney A.; and Orlando, Vincent A., 3,678,763.
 Brown, Richard C.; and Saunders, Orson V., 3,667,249.
 Broyles, William R.; and Search, Robert L., 3,686,043.
 Buck, Robert E.; Metzger, Robert W., Jr.; Rittmann, Albert D.; and Sayers, Eugene H., 3,679,946.
 Buckman, Kenneth Ernest, 3,633,756.
 Bujnowski, Raymond S.; and Oliver, Charles R., 3,680,818.
 Burley, Harvey A., 3,678,741.
 Burrell, Frank C., 3,648,537.
 Cameron, Alistair A., 3,680,191.

Campbell, David D., 3,687,485.
 Campbell, Edward E.; and Sandor, Bela, 3,703,308.
 Campbell, Robert E.; and Huntzinger, Gerald O., 3,645,246.
 Campbell, Robert W.; and Cummins, Donald L., 3,667,025.
 Campbell, Robert W., 3,686,961.
 Canter, James A., 3,633,374.
 Canter, James A., 3,679,867.
 Carlin, Ralph E.; and Rigg, Ralph R., 3,696,632.
 Carlson, Richard A., 3,706,005.
 Carpenter, Keith H., 3,705,520.
 Casey, Richard H., 3,650,582.
 Cataldo, Roy S., 3,657,902.
 Cataldo, Roy S., 3,659,137.
 Chana, Howard E., 3,638,771.
 Chana, Howard E., 3,656,372.
 Chana, Howard E., 3,703,228.
 Charns, Norman, 3,671,714.
 Christman, Charles P., 3,675,187.
 Christman, Willard A.; and Jones, Billy R., 3,697,814.
 Cimino, James J.; and Bodem, David C., 3,688,333.
 Ciolli, Henry J., 3,702,064.
 Clark, William B., 3,648,567.
 Clarkson, Frederick C., Jr., 3,695,362.
 Cole, Edward N., 3,641,763.
 Cole, Edward N., 3,674,441.
 Colling, Ronald L.; and Trenne, Myron U., 3,705,639.
 Collins, James D., 3,653,250.
 Cope, Kenneth P.; and Baer, Donald G., 3,645,353.
 Copeland, Charles R., 3,674,121.
 Corbin, Ralph L.; Jones, Richard A.; and Byers, Robert G., 3,666,564.
 Corrigan, Gordon D., 3,633,440.
 Corrigan, Gordon D.; Lee, Donald H.; Olsen, Howard E.; and Petry, Robert J., 3,695,121.
 Cox, John M., 3,647,556.
 Cuning, Alfred C.; and Wolverson, Harry D., 3,640,128.
 Currie, James H.; and Mick, Stanley H., 3,667,443.
 Daffron, William G., 3,693,461.
 Daniels, Dale L.; and Furnival, Thomas J., 3,688,163.
 Davis, Dennis A., 3,635,285.
 Davis, Judson S., 3,635,306.
 Davis, Judson S., 3,704,417.
 Davis, Roger C., 3,700,330.
 Davison, Ellard D., Jr.; and Haviland, Merrill L., 3,686,973.
 Day, Edward G., 3,648,898.
 De Claire, James H.; Dully, Floyd I.; and Hull, Neil A., 3,653,711.
 De Hoff, Edward J.; and Schaefer, Ernest D., 3,688,875.
 De Rees, Delbert D.; and Walker, Gerald R., 3,703,053.
 Dean, Ralph, Jr., 3,641,837.
 Deaton, Homer W.; Gould, Robert R., Jr.; and Smith, Roy R., 3,636,309.
 Dega, Fred W., 3,662,704.
 Dega, Fred W., 3,670,560.
 Dega, Robert L., 3,647,337.
 Delorean, John Z., 3,700,080.
 Denis, Richard E., 3,678,762.
 Denis, Richard E., 3,680,391.
 Dettloff, Richard L.; and Hlavaty, Victor, 3,638,552.
 Diener, James H., 3,697,108.
 Dillman, Ned E.; and Auzines, John, 3,633,159.
 Dilonzo, Vincent, 3,693,644.
 Dirks, Chauncey L., 3,670,402.
 Dison, James R., 3,688,505.
 Ditto, Edwin D.; and Stone, William S., 3,699,639.
 Dolan, Richard F., 3,678,584.
 Donohue, Robert J.; and Joseph, Bernard W., 3,700,883.
 Dort, Ronald A.; and White, Ronald E., 3,652,328.
 Doty, Warren R.; and Knight, Bobbie D., 3,647,699.
 Douglas, William E., 3,658,121.
 Doversberger, Kenneth W.; and Furnival, Thomas J., 3,693,048.
 Dresden, Du Wayne D., 3,659,895.
 Dreyer, Hans, 3,693,997.
 Duncan, George A., 3,656,428.
 Dunn, Joseph B., 3,698,781.
 Early, Robert E., 3,662,581.
 Easley, Sydney Eugene, 3,686,895.
 Eckert, Clarence J.; and Nardone, Benedetto C., 3,645,509.
 Eckert, Clarence J.; and Moulds, John W., 3,670,709.
 Eckert, Clarence J.; and Moulds, John W., 3,684,318.
 Edmunds, John O., 3,659,687.
 Edwards, Ralph W., 3,690,194.
 Edwards, Ralph W.; and Petry, Ronald G., 3,703,017.
 Eichler, Richard, 3,690,155.
 Eichler, Richard H.; and Simon, John G., 3,683,673.
 Eiger, William H., 3,643,355.
 Elliott, Harold V., 3,703,092.
 Elliott, James O.; and Jackson, George W., 3,667,019.
 Elliott, James O., 3,675,103.
 Elliott, James O., 3,681,671.
 Elliott, James O., 3,689,817.

Eltzroth, Richard E.; and Fewell, Larry K., 3,689,983.
 Ephraim, Max, Jr.; and Smith, Earl D., 3,691,446.
 Epple, Peter C.; and Berg, Alan D., 3,633,966.
 Eros, Peter S.; and Neubauer, Jerry L., 3,652,032.
 Esperson, James Ronald, 3,688,499.
 Eusebi, Elio, 3,654,202.
 Eusebi, Elio, 3,658,950.
 Fagarazzi, Frank, 3,648,534.
 Fales, Douglas I., 3,660,814.
 Fales, Douglas I., 3,665,383.
 Fales, Douglas I., 3,671,962.
 Fancy, Richard E., 3,694,002.
 Fannin, Wayne V.; and Buchanan, Harry C., Jr., 3,690,689.
 Farrell, Robert C.; and Milton, Thomas J., 3,646,285.
 Ferchland, Harold W., 3,641,718.
 Ferdelman, Donald C., 3,666,002.
 Fettes, Harry H., 3,695,660.
 Fink, William C., 3,702,473.
 Fink, William C.; and Stewart, William R., 3,702,474.
 Fish, Austin D.; Fisher, William G.; and Brubaker, Robert F., 3,663,975.
 Fitzpatrick, John D.; Sharp, Harold L.; and Burns, Bernard, 3,645,149.
 Flandrena, William Kenneth, 3,645,592.
 Fodrea, James W., 3,645,147.
 Fodrea, James W., 3,703,031.
 Fogt, Thomas H., 3,659,827.
 Fogt, Thomas H.; Steiner, William R.; and Murphy, John M., 3,670,523.
 Fogt, Thomas H., 3,696,635.
 Foster, David A., 3,659,910.
 Foster, Laverne H.; Fox, Robert M.; and Webber, Charles H., 3,635,519.
 Fowler, Stanley B., 3,674,309.
 Fox, Robert M., 3,656,408.
 Freiburger, Ronald D.; and Woolley, James L., 3,668,497.
 Fry, Millard E.; and Bremer, Robert D., 3,668,371.
 Fuhr, David R., 3,646,552.
 Furnival, Thomas J., 3,643,305.
 Furnival, Thomas J., 3,686,540.
 Furnival, Thomas J., 3,700,969.
 Gaeke, Edward G., 3,632,176.
 Gast, Richard A.; and Mitchell, Harry R., 3,653,212.
 Gelenius, Robert B., 3,636,447.
 Gelenius, Robert B., 3,659,177.
 Gergoe, Bela, 3,695,678.
 Gerstle, De Witt F., 3,643,322.
 Gibas, Jack E., 3,643,525.
 Giesman, Richard C.; and Schwedland, Ronald P., 3,635,587.
 Gillund, Arden G.; Holtshouse, Dan K.; Moretti, John A.; and Orlando, Vincent A., 3,703,300.
 Gionet, Edmond R.; and Hull, Neil A., 3,643,755.
 Gionet, Edmond R.; and Hull, Neil A., 3,695,659.
 Gordon, Colin C.; and McGavic, John P., 3,702,601.
 Goslin, Gerald E.; Herschberger, Russell R.; and Mach, George J., 3,667,718.
 Goulis, Joseph N.; and Owen, Robert E., 3,632,042.
 Goulis, Joseph N., 3,659,905.
 Graddy, Willard E.; and Anderson, Willis H., 3,701,085.
 Graham, Robert W., 3,635,024.
 Grandel, Leonard F.; Schluckebier, Floyd A.; and Kimberlin, Dan R., 3,643,981.
 Green, Raymond J., 3,687,242.
 Gute, Loren R., 3,659,308.
 Gute, Loren R.; and Jackson, George W., 3,670,353.
 Gutting, James I., 3,700,996.
 Guyton, James H.; and Lammers, Arthur R., 3,695,552.
 Hachtel, Guenter, 3,667,671.
 Haddad, Mitchell J., 3,635,031.
 Hagerman, Edward M., 3,644,586.
 Hagerman, Edward M., 3,691,262.
 Hamilton, Stoddard C., III, 3,684,064.
 Hammer, Dale F.; and Bischoff, Leo E., 3,691,443.
 Hancock, James L.; and Bliss, Joseph A., 3,691,415.
 Hankley, Max E., 3,646,422.
 Hansen, Kai H., 3,703,165.
 Hanson, Charles G.; and Harland, Glen E., Jr., 3,643,153.
 Hanson, Richard J., 3,706,067.
 Harmed, John L., 3,667,816.
 Harrold, Marshall C., 3,683,964.
 Hart, Jack P., 3,638,716.
 Haskew, Harold M.; and Martens, David A., 3,662,726.
 Hause, Gilbert K., 3,656,407.
 Hause, Gilbert K., 3,659,414.
 Hause, Gilbert K., 3,670,596.
 Hause, Gilbert K., 3,690,398.
 Hay, Charles N., 3,643,763.
 Hay, Charles N., 3,700,298.
 Hayes, Charles F.; and Steffey, David R., 3,640,469.
 Hayes, John R.; Eckart, Francis H.; and Peck, Donald E., 3,670,624.

Hayes, John R., 3,688,639.
 Heckendorf, Howard A.; and Voorhies, Donald A., 3,641,826.
 Heckendorf, Howard A., 3,649,788.
 Herod, Donald M.; Engelman, John C.; and Johnston, William J., 3,692,383.
 Herring, Lloyd D., 3,643,524.
 Hetzler, Lewis R.; Campbell, Robert E.; Carlson, Charles R.; and Huntzinger, Gerald O., 3,638,630.
 Hewko, Lubomyr O., 3,641,842.
 Hewko, Lubomyr O.; and Kepple, Richard K., 3,702,083.
 Hill, David C., 3,641,989.
 Hinrichs, Gordon, 3,691,396.
 Hoffman, Robert E., 3,648,487.
 Holland, Joseph L., 3,685,528.
 Hornaday, James R., Jr.; Miller, Edwin J.; and Vigor, Charles W., 3,632,980.
 Horvath, Robert A., 3,659,906.
 House, Ronalee, 3,679,847.
 Howe, William E., 3,633,537.
 Hrincevich, John, Jr., 3,645,728.
 Huntzinger, Gerald O.; Hetzler, Lewis R.; and Templin, Jackson R., 3,646,301.
 Huntzinger, Gerald O., 3,645,241.
 Huntzinger, Gerald O.; and Sheldrake, Leonard J., 3,671,843.
 Huntzinger, Gerald O., 3,704,382.
 Huntzinger, Gerald O.; and Bassett, Norris J., 3,706,089.
 Hutchins, Everett C.; Spencer, Gary E.; and Tucker, Marion K., 3,685,923.
 Irish, Fred J.; and McLean, Robert F., 3,642,303.
 Jackson, George W.; and Whelan, James E., 3,671,150.
 Jackson, George W.; Long, Paul J., Jr.; and Fannin, Wayne V., 3,700,273.
 Jacobs, James W., 3,635,229.
 Jacobs, James W., 3,643,461.
 Jacobs, James W., 3,645,193.
 Jacobs, James W., 3,648,280.
 Jacobs, James W., 3,648,931.
 Jacobs, James W., 3,654,474.
 Jacobs, James W., 3,658,075.
 Jacobs, James W., 3,702,065.
 Jacobsen, Eudell G.; and Martens, David A., 3,653,464.
 Jacovides, Linos J.; Lyon, David M.; and Fisher, Richard M., 3,705,971.
 Jellison, Frank R.; Mason, John B.; and McQueen, Terry K., 3,674,283.
 Johnson, Douglas, 3,655,223.
 Johnson, Douglas, 3,663,118.
 Johnson, John N., 3,666,001.
 Johnson, Lauren L., 3,688,182.
 Johnson, Ralph S., 3,674,120.
 Johnston, Richard W., 3,675,099.
 Jones, David L., Jr., 3,680,283.
 Jordan, Larry Lee, 3,689,357.
 Jubelt, Warren L., 3,678,738.
 Kabay, Steve; and Lesko, Leslie J., 3,648,391.
 Katz, Seymour; and Greene, Joseph L., 3,694,325.
 Kearfott, Arman L., 3,680,373.
 Keppel, Charles M.; and Weiss, Irwin K., 3,680,883.
 Kepple, Richard K.; Hewko, Lubomyr O.; and Rogers, Arden W., 3,702,084.
 Kesling, Keith K., 3,634,971.
 Kesling, Keith K., 3,682,521.
 Kesten, Patrick N.; Webb, Richard A.; and Bedford, Raymond E., 3,703,387.
 Kiley, John S.; and Jason, Robert C., 3,688,617.
 Kimberlin, Dan R.; and Schluckerbier, Floyd A., 3,648,490.
 King, Michael F., 3,685,370.
 Klimisch, Richard L., 3,674,423.
 Knape, Richard S., 3,648,673.
 Knutson, Charles J., 3,659,199.
 Koivunen, Erkki, 3,653,118.
 Koivunen, Erkki A., 3,642,097.
 Koivunen, Erkki A., 3,645,172.
 Koivunen, Erkki A., 3,659,480.
 Koivunen, Erkki A., 3,665,707.
 Koivunen, Erkki A., 3,672,731.
 Koivunen, Erkki A., 3,684,328.
 Koivunen, Erkki A., 3,685,619.
 Koivunen, Erkki A., 3,696,893.
 Kolbe, William H.; Sagady, Alexander J.; and Suzuki, Taro, 3,671,154.
 Korpak, Charles, 3,634,923.
 Kortge, Jerry W.; and Rodaer, James A., 3,671,751.
 Koskela, Robert B., 3,653,280.
 Koziar, Joseph, 3,658,110.
 Kronenberger, Paul E., 3,635,355.
 Kuck, Lloyd L., 3,671,144.
 Kuehl, Paul B., 3,673,798.
 Kussmann, Lutz W., 3,656,365.
 La Flame, Frank E., 3,648,811.
 La Flame, Frank E., 3,690,428.

La Framboise, Leo F., 3,684,999.
 LaBoda, Mitchell A., 3,669,858.
 Lambiris, Theodore, 3,695,215.
 Lash, Joseph F., 3,646,601.
 Leffert, Charles B., 3,670,495.
 Leffert, Charles B., 3,683,214.
 Levering, David R., 3,694,018.
 Lincoln, Clark, 3,663,918.
 Lincoln, Clark, 3,690,696.
 Little, Sheldon G., 3,643,087.
 Livezey, William G., 3,680,675.
 Lohr, Thomas E., 3,643,289.
 Lottridge, Neil M.; and Momsen, Marc F., 3,648,807.
 Louton, James C., Jr., 3,649,067.
 Lynch, David D., 3,656,354.
 Lynch, Fred E.; and Carlton, Berl L., 3,649,226.
 Lystad, Leonard A., 3,646,707.
 Lystad, Leonard A., 3,703,310.
 Maas, Otto Robert, 3,639,015.
 Maci, Raymond J., 3,670,854.
 MacIver, Bernard A., 3,648,340.
 Maddy, Sanford L.; and Templin, Jackson R., 3,646,286.
 Madsen, John E., 3,662,201.
 Maginnis, George B., 3,698,834.
 Magyar, Joseph J., 3,635,525.
 Magyar, Joseph J., 3,666,289.
 Maina, Mario Joseph, 3,648,536.
 Makenin, John P.; and Wize, Gary A., 3,666,314.
 Malloy, John D., 3,693,478.
 Mann, Leonard J., 3,645,110.
 Mann, Leonard J., 3,653,532.
 Markey, Francis J., 3,698,236.
 Marlow, Jerry R., 3,688,607.
 Marsh, Lawrence C., 3,643,129.
 Martens, David A., 3,636,935.
 Mashino, Condon F.; and Barker, Carlton D., 3,648,354.
 Massarins, Janis, 3,689,122.
 Matouka, Michael F., 3,697,782.
 Mawhinney, Albert B.; and Herzog, Ellwood P., 3,670,407.
 Mayeda, Thomas H., 3,700,418.
 Mazzarins, Janis, 3,648,782.
 Mazzarins, Janis, 3,659,669.
 Mazzarins, Janis, 3,670,430.
 Mazzarins, Janis, 3,688,420.
 McCann, David M.; and Hrincevich, John, Jr., 3,653,881.
 McDougal, John A.; and Schwartzwalder, Karl, 3,705,558.
 McIntosh, Duane E., 3,691,553.
 McLean, William E.; and Ruch, David E., 3,671,949.
 McLean, William E., 3,699,546.
 McNamee, James W., 3,646,366.
 Meyer, Barthold F., 3,649,061.
 Meyer, Barthold F., 3,659,800.
 Meyer, Barthold F., 3,692,343.
 Micheli, Adolph L., 3,634,254.
 Micheli, Adolph L., 3,637,505.
 Mikkola, John E., 3,686,475.
 Miller, Donald G.; and Singleton, Richard H., 3,653,976.
 Miller, Michael B., 3,694,714.
 Miller, William K., 3,689,731.
 Milton, Thomas J.; and Connell, Lehman J., 3,646,828.
 Milton, Thomas J., 3,670,591.
 Milton, Thomas J.; and Skelley, John W., 3,703,105.
 Mix, Renard E., 3,652,337.
 Morden, Russell L.; and Perkins, Ralph W., 3,704,637.
 Muench, Nils L.; and Murphy, Charles B., 3,639,805.
 Muratore, John B.; and Peterson, Paul E., 3,649,093.
 Neese, Philip C.; Watson, Richard D.; and Zickel, Thomas A., 3,690,737.
 Nelson, Robert E.; Sanders, Robert K.; and Watts, Oran Alton, III, 3,636,332.
 Nelson, Robert E.; Sanders, Robert K.; and Watts, Oran Alton, III, 3,636,335.
 Neuman, John G., 3,644,847.
 Neumann, Bernhard, 3,666,198.
 Oakes, James A., 3,697,828.
 Oehl, Adolf, 3,693,467.
 Ogawa, Fremont T., 3,705,522.
 O'Malley, John J.; and Smith, Marion D., 3,678,783.
 O'Malley, John J., 3,688,882.
 Otto, Herbert; and Schonberger, Helmut, 3,666,037.
 Paffrath, Edgar C.; and Burke, Harold J., 3,633,160.
 Pansing, Nelson J., 3,636,490.
 Parker, Eric G., 3,633,238.
 Parker, Eric G., 3,644,956.
 Parker, Eric G., 3,649,989.
 Parker, Eric G.; and Wolf, Charles C., 3,686,705.
 Parker, Eric George, 3,694,846.
 Pasek, James E.; and Woodward, Charles D., 3,671,085.
 Pedersen, George H., 3,670,964.
 Peters, Theodore F., 3,635,438.
 Peters, Theodore F., 3,695,545.

Petersen, Victor, 3,664,676.
 Peterson, David W., 3,662,858.
 Peterson, Donald W., 3,688,334.
 Peterson, Philip R.; Wind, Robert H.; and Mark, Douglas E., 3,680,923.
 Pevitt, Herman, Jr., 3,681,170.
 Pierce, Earl W., 3,648,802.
 Pietroski, Alex J., 3,678,551.
 Pietrzak, Joe P.; Campbell, Lewis B.; and Strahan, Robert M., 3,638,903.
 Pirrello, Antonio; and Campbell, Robert, 3,662,593.
 Plumer, Roy D.; and Irby, Donald J., 3,645,166.
 Plumer, Roy D., 3,653,684.
 Plyler, Robert G., 3,637,284.
 Podolan, Edward G., 3,702,041.
 Podwys, Stanley, 3,666,317.
 Polzin, Dwaine N.; and Lesko, Leslie J., 3,662,838.
 Porter, Philip J., 3,668,678.
 Prachar, Otakar P.; and ShROUT, Harold, 3,631,728.
 Prachar, Otakar P., 3,638,501.
 Prachar, Otakar P., 3,662,606.
 Prachar, Otakar P., 3,703,102.
 Preiser, Mark E., 3,644,721.
 Preiser, Mark E., 3,681,675.
 Preotle, John J., 3,665,726.
 Prisk, Bert C., 3,689,204.
 Prymak, Bohdan I., 3,675,106.
 Prymak, Bohdan I., 3,700,988.
 Quick, Irvin, 3,631,688.
 Ranft, Ernst L., 3,648,897.
 Rank, William E.; and Dafler, Gene L., 3,662,200.
 Rank, William E.; and Dafler, Gene L., 3,694,906.
 Rathbun, Ward J., 3,646,541.
 Rau, John C., 3,636,796.
 Rausch, John T.; and Parker, William J., 3,700,069.
 Rausch, John T.; and Skunda, Michael, 3,705,951.
 Reeves, Keith Clarkson, 3,698,259.
 Reinhart, Henry F.; and Dega, Robert L., 3,697,202.
 Renner, Glen R., 3,666,978.
 Rice, Hal H.; and Dudash, James J., 3,646,993.
 Richman, Douglas A., 3,693,825.
 Riddel, John W., 3,652,463.
 Riess, Joseph A., 3,697,843.
 Riess, Joseph A.; and Vespie, Conrad P., 3,701,001.
 Ritter, Thomas E., 3,667,314.
 Rittmann, Albert D., 3,660,696.
 Robbins, Samuel B., 3,644,811.
 Robbins, Samuel B., 3,675,101.
 Rohde, Robert P.; Welsh, Clarence E.; and Engelhardt, Hans, 3,674,385.
 Roofe, Willard I., 3,643,318.
 Rose, John W., 3,663,319.
 Rothschild, John J., 3,686,034.
 Roush, Roy W., Jr., 3,643,766.
 Ruff, Donald O., 3,656,135.
 Ruhlandt, Gerald K., 3,633,651.
 Russo, Andrew, Jr., 3,644,872.
 Rytz, Edward F., Jr.; and O'Conner, Thomas E., 3,658,115.
 Rytz, Edward F., Jr.; Janowak, John F.; and Watton, John F., 3,670,558.
 Salihi, Jalal I.; Brockman, John J.; and Spix, George J., 3,688,171.
 Salihi, Jalal T.; and Shimer, Daniel W., 3,659,168.
 Salihi, Jalal T., 3,671,832.
 Saunders, Orson V.; and Benasutti, Louis D., 3,648,411.
 Savage, Jack W., 3,665,593.
 Sawyer, Elbert M.; and Haas, William M., 3,684,935.
 Sawyer, Elbert M.; and Bourbeau, Frank J., 3,689,813.
 Sawyer, Elbert M.; Brown, Joseph M.; Munden, Curtis D.; and Giles, Kenneth E., 3,702,429.
 Sayre, Robert E.; Campbell, Lewis B.; and Pietrzak, Joe P., 3,705,831.
 Schaefer, Robert H., 3,640,157.
 Schaefer, Robert H., 3,656,371.
 Schaefer, Robert H., 3,687,210.
 Schaefer, Robert H.; and Fox, Joseph R., 3,691,872.
 Schauer, George W., Jr., 3,662,141.
 Schauer, George W., Jr., 3,686,476.
 Scheibe, Elias W., 3,645,362.
 Scheiter, Milton H., 3,653,272.
 Scheiter, Milton H., 3,667,319.
 Scheiter, Milton H., 3,682,020.
 Scheiter, Milton H., 3,684,065.
 Schlotterbeck, David L.; and Briar, John R., 3,698,204.
 Schoendorff, Arthur J., 3,644,813.
 Schraner, Josef F., 3,689,058.
 Schroeder, Thaddeus, 3,704,408.
 Schulz, John C., 3,702,178.
 Schwyn, Raymond E.; and Berg, Morris, 3,637,435.
 Seagraves, George F., 3,655,275.
 Seyfarth, Robert, 3,645,244.

Sharpe, Cecil H., 3,658,249.
 Sharpe, Verlos G., 3,702,069.
 Sheldrake, Leonard J., 3,691,442.
 Shellhouse, Ronald L., 3,691,903.
 Shellhouse, Ronald L., 3,698,260.
 Sheridan, David Carl; Amann, Charles A.; and Ricketts, James M., 3,638,533.
 Sherman, Warren S.; Troth, Dennis L.; and Bennett, William A., 3,646,755.
 Siegl, Donald C., 3,646,321.
 Simmons, Edward C., 3,643,681.
 Simms, Harold J., Jr., 3,671,952.
 Skinner, Kenneth R., 3,684,916.
 Smale, Charles H., 3,690,562.
 Smale, Charles H., 3,705,688.
 Smith, Marion D., 3,705,521.
 Smith, Wayne A., 3,633,111.
 Snyder, John, 3,662,818.
 Snyder, Richard N.; and Wheadon, Ellis G., 3,702,265.
 Spears, Esten W., Jr., 3,656,865.
 Sprecher, Raymond G., 3,667,806.
 Staker, William C., 3,675,160.
 Staker, William C., 3,679,967.
 Staker, William C., Jr., 3,694,667.
 Stanner, Donald, 3,680,910.
 Stapleton, Thomas T., 3,695,749.
 Steinbarger, Jay O., 3,644,057.
 Stevens, Derek Norman; and Underwood, Peter James, 3,638,512.
 Stewart, Ted, 3,655,238.
 Stewert, Robert M., 3,670,704.
 Suggs, Alfred M., 3,645,094.
 Suverison, Lyle B., 3,649,098.
 Sweet, Douglas W., 3,702,206.
 Swets, Don E., 3,650,702.
 Swindlehurst, Carl P., 3,642,317.
 Tague, Duane R.; and Mc Nalley, Gerald A., 3,692,004.
 Taylor, Clinton A., 3,658,396.
 Tchejyan, Sarkis K.; and Repinski, James A., 3,642,343.
 Tellson, Joseph W., 3,694,043.
 Templin, Robert J.; Johnson, Paul R.; and Falberg, Robert F., 3,645,098.
 Thompson, Charles H., 3,705,642.
 Thornburgh, William F., 3,643,526.
 Travis, William H., 3,642,100.
 Travis, William H., 3,653,470.
 Trimble, Philip K., 3,693,101.
 Tucholski, Leon A., 3,670,499.
 Tuffnell, Derrick Percival; and Kemp, Stanley William, 3,662,895.
 Upp, Donald L., 3,679,870.
 Van Uum, Donald R.; and Jalbing, John I., 3,691,419.
 Velavicius, Alfonsas; and Toruk, Nicholas, 3,643,378.
 Velavicius, Alfonsas; and Wanlass, Bert R., 3,645,043.
 Velavicius, Alfonsas; and Wanlass, Bert R., 3,690,036.
 Venditty, Anthony, 3,659,533.
 Vickers, Paul T., 3,705,492.
 Vikstrom, Dennis G., 3,706,032.
 Wade, Wallace R., 3,656,298.
 Wagle, Joseph A., 3,656,864.
 Wagle, Joseph A., 3,693,424.
 Wagner, Douglas A., 3,679,033.
 Wagner, Douglas A., 3,699,850.
 Walters, Leslie K.; and Fuelberth, Walter K., 3,648,813.
 Wanlass, Bert R.; and Velavicius, Alfonsas, 3,674,296.
 Wanlass, Bert R., 3,699,716.
 Wanner, Joseph W., 3,643,915.
 Wanner, Joseph W., 3,666,287.
 Wanner, Joseph W., 3,689,053.
 Webber, Fred J.; and Williams, Robert G., 3,642,058.
 Webber, Fred J., 3,667,823.
 Week, Nils Peder; and Stevenson, Paul D., 3,641,879.
 Week, Nils Peder, 3,692,156.
 Weinand, Louis H., 3,656,227.
 Weinand, Louis H., 3,661,400.
 Weisgerber, Thomas W., 3,690,426.
 Westercamp, Kenneth L., 3,633,382.
 Weststrate, Willem J. J., 3,679,229.
 Weststrate, Willem J. J., 3,684,310.
 Wheadon, Ellis G.; and Mc Cartney, Charles P., 3,652,336.
 Wheadon, Ellis G.; and Willmann, Norman L., 3,679,789.
 Wheadon, Ellis G.; and Willmann, Norman L., 3,690,950.
 Whelan, James E., 3,667,775.
 White, Robert L.; and Creed, John W., Jr., 3,638,462.
 White, Robert L., 3,705,741.
 White, Ronald E.; and Gardlund, Zachariah G., 3,652,379.
 Whitney, Donald R., 3,645,607.
 Williamitis, Victor A., 3,645,111.
 Williamitis, Victor A., 3,700,484.
 Williams, Alfred J., 3,645,881.
 Williams, John R., 3,666,328.

Winebrener, Gary L., 3,686,549.
 Wing, Douglas J., 3,671,695.
 Winkelmann, Herbert E., 3,689,955.
 Winkelmann, Herbert E.; and Bodem, Roy C., 3,693,209.
 Winston, John M.; and Zimmerman, Walter H., 3,665,389.
 Wize, Gary A., 3,695,688.
 Wize, Gary A., 3,700,258.
 Woodward, Charles D., 3,671,084.
 Wright, Edmund S., 3,684,538.
 Ysenchak, Richard W.; Schomer, Raymond A.; and Harper, Ernest V., 3,665,148.
 Yee, John W., 3,671,733.
 York, Jerome B., Jr., 3,656,736.
 Zaydel, Wieslaw S., 3,666,307.
 Zeisloft, Harry C.; and Van Ostrom, David L., 3,684,047.
 Zimmerle, Wilbur J., 3,663,048.
 General Nuclear, Inc.: See—
 Jeffries, Luther R., Jr.; and Thompson, Charles F., 3,643,096.
 General Portland Cement Co.: See—
 Hiatt, John C.; and Luker, John P., 3,686,372.
 Tanner, Theodore F., 3,667,976.
 General Precision Industries Limited: See—
 Terreault, Gerard Linel Patrick, 3,684,976.
 General Processing Corporation: See—
 Hollis, Russell E., Jr., 3,647,244.
 General Products and Gear Co., Inc.: See—
 Pescuma, Gerald F.; Durso, Alphonse J.; and Brown, Walter T., 3,665,738.
 General Refractories Company: See—
 Bakker, Wate T., 3,640,739.
 Bakker, Wate T., 3,642,505.
 Bakker, Wate T., 3,652,307.
 Salmi, Victor John, III, 3,646,722.
 Staut, Ronald; and Judd, George G., 3,698,922.
 General Safety Inc.: See—
 Windham, Edward F., 3,661,360.
 General Science Corporation: See—
 Angel, Henry R., 3,638,227.
 Estelle, Weems E.; and Petrucci, Pasquale M., 3,654,439.
 Estelle, Weems E.; Angel, Henry R.; and Petrucci, Pasquale M., 3,657,725.
 General Signal Corporation: See—
 Alger, Martin J., Jr.; and Dunn, Nelson H., 3,707,034.
 Alger, Martin J., Jr.; and Dunn, Nelson H., 3,707,035.
 Auer, John H., Jr.; and Huffman, Jerry P., 3,641,575.
 Auer, John H., Jr.; and Huffman, Jerry P., 3,653,043.
 Auer, John H., Jr., 3,672,462.
 Auer, John H., Jr.; and Huffman, Jerry P., 3,675,190.
 Bolton, Norman A.; and Frielinghaus, Klaus H., 3,651,453.
 Bolton, Norman A., 3,697,745.
 Dobrowolski, Zbigniew C., 3,698,515.
 Engle, Thomas H., 3,667,350.
 Engle, Thomas H., 3,672,633.
 Engle, Thomas H., 3,696,892.
 Engle, Thomas H., 3,707,309.
 Frielinghaus, Klaus H., 3,707,717.
 Halmi, Dezsoe, 3,686,946.
 Haner, Robert B., Jr., 3,699,522.
 Hughson, J. Donald, 3,699,521.
 Jennings, Lyston C., 3,659,963.
 Kovalcik, Vicenter P.; and Anderson, Robert F., 3,639,754.
 Meyerhoefer, Carl E., 3,633,239.
 Meyerhoefer, Carl E., 3,633,942.
 Meyerhoefer, Carl H., 3,688,708.
 Reich, Simon, 3,639,753.
 Sibley, Henry C., 3,663,809.
 Sibley, Henry C., 3,666,217.
 Sibley, Henry C., 3,670,161.
 Suchomel, Michael; Tipton, William; and Burnett, James H., 3,665,441.
 Toeppen, Thurston H.; and Sanger, David M., 3,681,732.
 Wrege, Warren R., 3,639,755.
 General Signal of Canada, Ltd.: See—
 Schulz, Manfred, 3,686,667.
 General Staple Co.: See—
 Rosenbaum, Irving W., 3,636,611.
 General Steel Industries, Inc.: See—
 Cunningham, James B., 3,636,885.
 Gacs, Peter T.; and Shirzad, Paul P., 3,699,600.
 Jackson, Keith L., 3,661,097.
 Lich, Richard L., 3,636,886.
 Lich, Richard L., 3,648,622.
 Lich, Richard L., 3,650,220.
 Lich, Richard L., 3,651,766.
 Lich, Richard L., 3,693,553.
 Seely, Robert M., 3,650,219.
 General Systems, Inc.: See—
 Zelina, William B., 3,652,958.
 General Technical Services, Inc.: See—
 Iberall, Arthur S., 3,704,708.
 General Technical Services, Incorporated: See—

Iberall, Arthur S., 3,658,054.
 General Technologies Corporation: See—
 Shyne, James J.; and Milewski, John V., 3,668,062.
 Withers, James C., 3,702,780.
 General Telephone & Electronics Laboratories, Incorporated: See—
 Brecher, Charles; Heller, Adam; and Pappalardo, Romano, 3,681,252.
 General Telephone & Electronics Laboratories, Incorporated: See—
 Buhner, Carl F., 3,688,282.
 Kocher, Robert; Moore, Franklin; and Samelson, Harold, 3,688,216.
 Wachter, Paul, 3,687,863.
 Wachter, Paul, 3,696,263.
 General Telephone Company of California: See—
 Brown, Robert Warren, 3,704,347.
 Kira, Hiroshi, 3,696,855.
 Wetzel, Louis Emery, 3,636,280.
 General Time Corporation: See—
 Anderson, Wilmer C., 3,634,854.
 Anderson, Wilmer C.; and Windebank, Robert W., 3,696,258.
 Brainard, Edward C., II, 3,668,617.
 Cielaszyk, Edward F., 3,678,683.
 Cofoid, Robert D.; and Goodwin, Clarence J., 3,681,992.
 Cruger, Richard E.; Anderson, Wilmer C.; Earls, David; and Windebank, Robert W., 3,652,955.
 Eaton, Favre E., 3,693,031.
 Fihl, George E., 3,636,556.
 Fossum, Eric R., 3,650,361.
 Freeman, John D.; and Earls, David E., 3,658,209.
 Ingenito, Michael Joseph, 3,634,743.
 Patrick, Alan E.; and Kern, Kenneth E., 3,686,878.
 General Tire & Rubber Company: See—
 Pfeiffer, Paul O.; and Grucella, Frank J., 3,695,961.
 General Tire & Rubber Company, The: See—
 Barnes, Jon F.; and Johnson, James L., 3,671,345.
 Butler, Eugene B.; Fak, Ivan A.; and Line, Lawrence L., 3,644,229.
 Cobbledick, David S., 3,691,265.
 Dailey, Charles R., Jr., 3,674,076.
 Das, Balbhadra; and Meyer, Daniel A., 3,658,752.
 Dekking, Henri; and Maxey, Edwin M., 3,661,620.
 Devitt, James J.; Henson, Rudy D.; and Powell, Thomas E., 3,632,701.
 Duncan, Joe S.; and Elmer, Otto C., 3,668,186.
 Durst, Richard R.; and Uelzmann, Heinz, 3,700,707.
 Enlow, Dale S.; and Varner, Lawrence C., Jr., 3,647,608.
 Ford, Bryce W.; Meyer, Daniel A.; and Warner, Walter C., 3,699,808.
 Grant, Bernard Carrington; and Reilly, John F., 3,647,260.
 Greene, Charles E., 3,662,024.
 Henley, Virgil E.; and Lauer, Walter W., Jr., 3,645,826.
 Henley, Virgil E.; and Lauer, Walter W., 3,671,358.
 Henley, Virgil E., 3,695,974.
 Herold, Robert J.; and Kaufman, Herbert C., 3,634,244.
 Hipsher, Gary L., 3,642,268.
 Hipsher, Gary L., 3,698,703.
 Long, Fred E., 3,655,421.
 Magner, Philip G., Jr.; and Mitten, Robert W., 3,644,696.
 Middleton, Irvin E., Jr., 3,665,995.
 Milgrom, Jack, 3,654,224.
 Miller, David L., 3,632,712.
 Monajjem, Freydown, 3,631,716.
 Moore, Earnest; and Wear, George H., 3,644,589.
 Mundy, Arthur; and Sievers, David L., 3,666,335.
 Neubert, Terry C., 3,637,874.
 Rallis, John; and Dillon, James C., 3,661,684.
 Rinehart, Verne R., 3,655,729.
 Uelzmann, Heinz, 3,646,041.
 Uelzmann, Heinz, 3,660,354.
 General Tire Extinguisher Corporation: See—
 Magdars, John T., 3,670,763.
 General Trailer Co., Inc.: See—
 Schmidt, Kenneth J., 3,704,898.
 General Wire Overseas Corporation: See—
 Heilman, George P., 3,664,565.
 General Wire Spring Company: See—
 Silverman, Lee H.; Silverman, Arthur A.; and Gaworski, Edward T., 3,691,583.
 Genest, Robert: See—
 Perrella, Guido; and Genest, Robert, 3,651,585.
 Genge, Ulrich: See—
 Wirtz, Walter; and Genge, Ulrich, 3,705,713.
 Gengler, Gustav: See—
 Frank, Willi; and Gengler, Gustav, 3,698,473.
 Genisco Technology Corporation: See—
 Godinez, Peter A., Jr., 3,696,758.
 Genisson, Roger R.; and Thibieroz, Jean Pierre A., to Societe des Verreries Industrielles Reunies du Loing. Method and apparatus for forming blanks in optical-quality homogeneous glass. 3,650,722, 3-21-72, Cl. 65-65.
 Genma, Sanji: See—

- Watanabe, Hikoitsu; and Genma, Sanji, 3,662,505.
- Genma, Susumu; Kuroda, Akio; Kato, Toshio; and Kishi, Fusao, to Victor Company of Japan, Limited. Method of making a magnetic disc. 3,681,225, 8-1-72, Cl. 204-30.000.
- Gennick, William, to Ford Motor Company. Coupler between a dumpable container and a receiving container dumpable and receiving container coupler. 3,679,077, 7-25-72, Cl. 214-302.000.
- Genoud, Jean, to Etablissements Genoud & Cie. Gas cigarette lighter. 3,695,814, 10-3-72, Cl. 431-131.000.
- Genova, Joseph A., to Arrow-Hart, Inc. Fuse clamp. 3,634,812, 1-11-72, Cl. 339-64.
- Genova Products: See—
- Williams, Robert M., 3,677,301.
- Genovese, Eugene R.: See—
- Almasi, George S.; and Genovese, Eugene R., 3,680,065.
- Chang, Hsu; and Genovese, Eugene R., 3,701,125.
- Genovese, Eugene R., to International Business Machines Corporation. Method and apparatus for creation of cylindrical, single wall domains. 3,662,359, 5-9-72, Cl. 340-174.
- Genovese, John M.; and Walterick, Kenneth H., to Circle F Industries, Inc. Snap-in fluorescent lampholder with front end release. 3,681,593, 8-1-72, Cl. 240-51.11r.
- Genra: See—
- Ward, William H., Jr., 3,678,513.
- Genrich, Kurt; and Scott, Gerald L., to Sola Basic Industries, Inc. Vacuum water dump quench. 3,633,895, 1-11-72, Cl. 266-4.
- Genrich, Kurt, to Sola Basic Industries, Inc. Self-contained pumpless cooling water system. 3,643,678, 2-22-72, Cl. 137-209.
- Genrich, Kurt, to Sola Basic Industries, Inc. Vacuum oil quench furnace. 3,684,263, 8-15-72, Cl. 266-4.00a.
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- Genson, Samuel Richard; Petersen, Svend Aage; and Currier, Robert Lee, to Johns-Manville Corporation. Strand handling apparatus. 3,695,523, 10-3-72, Cl. 242-18.00r.
- Genta, Guido R., to American Aniline Products, Inc. Styryl dyes. 3,635,957, 1-18-72, Cl. 260-240.
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- Genta, Guido R., to American Aniline Products, Inc. Formylaminothioaryloxyanthraquinones. 3,697,554, 10-10-72, Cl. 260-377.000.
- Gentellalli, Gerald F. Broad head arrowhead. 3,653,664, 4-4-72, Cl. 273-106.5.
- Gentellalli, Gerald F. Adjustable quiver. 3,696,978, 10-10-72, Cl. 224-1.00b.
- Gentemann, Arthur J. Rowing device. 3,677,216, 7-18-72, Cl. 115-24.100.
- Genter, Roland E.; and Connell, Raymond S., Jr., to H. B. Engineering Corporation. Receiver for detecting signals within a predetermined bandwidth. 3,636,446, 1-18-72, Cl. 324-78.
- Gentry Corporation: See—
- Frieder, Leonard P., 3,646,626.
- Luisada, August G.; and Cianflone, Joseph A., 3,636,565.
- Luisada, August G., 3,655,087.
- Gentile, Anthony L.; and Stafsudd, Oscar M., to Hughes Aircraft Company. Method and apparatus for Czochralski growth of large crystals. 3,671,203, 6-20-72, Cl. 23-315.000.
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- Gentile, Richard W.; and Moyer, Wayne B.; deceased (by Moyer, Carolyn S.; executrix), to General Electric Company. Educator cooled gas turbine casing. 3,631,672, 1-4-72, Cl. 60-39.66.
- Gentile, Salvatore A. Impact safety hockey puck. 3,675,928, 7-11-72, Cl. 273-128.00r.
- Gentile, Tony: See—
- Barnett, Elben Ray; and Barnett, Raymond Ray, 3,665,203.
- Gentilly, Edwin E. Correct head position training device for golfers. 3,643,960, 2-22-72, Cl. 273-183.
- Gentit, William F., to Stauffer Chemical Company. Aircraft hydraulic fluid and method of controlling acid buildup therein with acid acceptor. 3,637,507, 1-25-72, Cl. 252-78.
- Gentit, William F., to Stauffer Chemical Company. Functional fluid antioxidants. 3,699,053, 10-17-72, Cl. 252-403.000.
- Gentit, William F.; and Jaffe, Fred, to Stauffer Chemical Company. Hydraulic fluids containing certain quaternary phosphonium salts of phosphorus acids. 3,707,501, 12-26-72, Cl. 252-78.000.
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- Gentry, Charles B., to Granco Equipment, Inc. Fume incinerator. 3,706,445, 12-19-72, Cl. 263-8.00r.
- Gentry Corporation: See—
- Izzo, Henry J.; and Burton, Charles O., 3,694,231.
- Gentry, Elwood M.; and Lilly, Arnys Clifton, Jr., to Morris, Philip, Incorporated. Method and apparatus for medical diagnosis. 3,656,474, 4-18-72, Cl. 128-2.1.
- Gentry, Hermond G., to Mead Corporation, The. Packaging machine. 3,701,230, 10-31-72, Cl. 53-48.000.
- Gentry, Robert R.: See—
- Peck, David W.; and Gentry, Robert R., 3,641,115.
- Gentsch, Erich; Bederke, Klaus; Seider, Walter; Fullner, Hans Jürgen; and Muhlmann, Christa, to Herberts, Kurt, Dr., & Co. vorm. Otto Louis Herberts. Process for the production of sheet-form backing materials coated with fused synthetic resins. 3,700,483, 0-24-72, Cl. 117-65.200.
- Genuit, Luther L.: See—
- Nowell, John R.; and Genuit, Luther L., 3,697,853.
- Genuit, Luther L.; and Lackey, Roger D., to Honeywell Information Systems, Inc., mesne. Loss of phase detector for a polyphase power system. 3,636,541, 1-18-72, Cl. 340-248.
- Genuit, Luther L.; and Nowell, John R., to Honeywell Information Systems, Inc. Apparatus for providing regulated voltage during brief power interruptions. 3,656,052, 4-11-72, Cl. 323-17.
- Genuth, Martin: See—
- Tucciarone, Joseph; and Genuth, Martin, 3,659,621.
- Genvrain: See—
- Pien, Jean Lucien Joseph, 3,644,326.
- Genwerich, Max; Wagner, Siegfried; and Schwarzkopf, August, to Windmoller & Holscher. Handle hole carrier bags. 3,688,974, 9-5-72, Cl. 229-54.00r.
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- Mowry, Warren E., 3,644,167.
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Gerber, Heinz Joseph; and Pearl, David R., 3,672,661.
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Gerber Products Company: See—
Argyres, George; and Clendenen, Donald, 3,643,823.
Choate, Wallace W.; and Amendola, Norman A., 3,664,087.
Fogg, Daniel A., 3,691,716.
Kelly, Vincent J.; and Fry, William G., 3,685,999.
Kelly, Vincent J.; Smalligan, Wayne J.; and Cloud, Larry L., 3,690,894.
Lutz, Roger J., 3,679,338.
Nelson, Lloyd A., 3,650,145.
Nelson, Lloyd A., 3,686,052.
Ryan, James D.; and Hoagland, Raymond L., 3,643,808.

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Gerber, Heinz Joseph, 3,689,932.
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Rich, Leonard G., 3,656,014.
Webster, Ronald B., 3,695,154.

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Williams, Leon, Jr.; and Gerbetz, William, 3,647,217.

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Gabano, Jean-Paul; and Gerbier, Gerard Marcel, 3,701,688.

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Rehhauser, Frederick V.; Earnest, Elmer Dean; Bock, Robert V.; Gerbstadt, Frederick H.; and Monek, James J., 3,665,421.

Trost, Joseph C.; Bock, Robert V.; Gerbstadt, Frederick H.; Graham, William J.; Miles, Wilson D.; and Questa, Charles R., 3,675,209.

Gerchenova, Nina Andreevna; Gurvich, Lev Moiseevich; Zelenskaya, Olga Ivanovna; Koretsky, Alexandr Filippovich; Machulsky, Petr Alexeevich; Nesterova, Maria Petrovna; Selifanova, Evdokia Prokofievna; Taubman, Arkady Borisovich; and Furaeva, Ekaterina. Detegent. 3,686,099, 8-22-72, Cl. 252-554.000.

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Gerdes, Dirk: See—
Staarmann, Herbert; Brieke, Hans-Gunter; and Gerdes, Dirk, 3,701,635.

Gerdes, Theo: See—
Blau, Werner; and Gerdes, Theo, 3,666,137.
Blau, Werner; and Gerdes, Theo, 3,667,642.

Gerding, Charles C.: See—
Stawarski, Chester C.; Gerding, Charles C.; and Adams, Richard T., 3,673,869.

Gerdt, Gustav F. KG: See—
Rudel, Kurt, 3,633,625.
Rudel, Kurt, 3,700,001.
Rudel, Kurt, 3,704,718.
Scholz, Heinz Paul, 3,633,614.

Gereby, John L.: See—
Hungerford, Philip C., Jr.; Gereby, John L.; and Richens, Robert H., 3,675,536.

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Ries, Christian; and Stolzenfels, Gunter, 3,682,713.

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Gerhardt, Peter H.: See—
Wiser, Joseph E.; and Gerhardt, Peter H., 3,676,725.

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Heymer, Gero; Gerhardt, Wilfried; and Harnisch, Heinz, 3,653,821.
Wirtz, Peter; Jacobowsky, Armin; Mittler, Werner; and Gerhardt, Wilfried, 3,696,015.

Gerhardt, Wilfried; and Harnisch, Heinz, to Knapsack Aktiengesellschaft. Process for producing a stabilized suspension NPK, NP or PK fertilizer. 3,676,100, 7-11-72, Cl. 71-37.000.

Gerhardt, Wolfgang: See—
Brenner, Lutz; and Gerhardt, Wolfgang, 3,641,637.

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Sollinger, Eugen; and Gerhardtsberg, Ernst, 3,648,563.

Gerhold, Clarence G.: See—
Boyd, David M.; and Gerhold, Clarence G., 3,696,618.

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Snider, Harold F.; and Gerich, Anton J., 3,662,311.

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Gericke, Gerhard: See—
Hermstein, Wolfgang; Mollenbeck, Klaus; and Gericke, Gerhard, 3,681,688.

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Hansson, Margaret S.; and Matejic, Leonard S., 3,650,563.

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Billon, Gerard; Henry, Jean Claude; and Vincent, Eugene, 3,700,848.

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Lewis, Dong Sing, 3,652,073.

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Brady, Dale J.; and Gerken, George W., 3,702,563.

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Heine, Heinz; and Gerken, Rudolf, 3,649,170.

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Stone, James, Jr.; Madden, Thomas J., Jr.; Gerlach, Glendon T.; and Keur, Robert L., 3,673,936.

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Gerlach, John R., to Emhart Corporation. Thumb lever actuated latch operating device. 3,704,036, 11-28-72, Cl. 292-167.000.

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Meyer, Ernst; Grimm, Wolfgang Erlenbach; Gerlach, Klaus; and Linhart, Helmut, 3,704,863.
Seibert, Gerhard; and Gerlach, Klaus, 3,672,943.

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Thiele, Tom N.; Gerlach, Lester O.; and Gilmore, Thomas P., 3,671,746.

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Bucklin, Edward P., Jr.; Evans, Pat E.; and Gerlach, Richard K., 3,656,130.

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Gerlat, Matthew E. Safety outlet. 3,663,924, 5-16-72, Cl. 339-28.

Gerli, Eugenio: See—
Borsani, Osvaldo; and Gerli, Eugenio, 3,663,079.

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Germain, Leo M., to Gulf Oil Canada Limited. Adhesively laminated flexible webs. 3,701,710, 10-31-72, Cl. 161-148.000.

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Knujants, Ivan Ljudvigovich; German, Lev Solomonovich; and Kazmina, Natalia Borisovna, 3,682,917.

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Timofeev, Mikhail Mikhailovich; Sokolov, Vladimir Leonidovich; German, Samuil Iosifovich; Levenberg, Ninel Efimovna; and Popov, Nikolai Ivanovich, 3,644,144.

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Williams, Archibald H.; Germanas, Dalia; and Donaldson, George R., 3,637,881.

Germann, Albert G., to G & H Mechanical Laboratory Inc. Method and apparatus for making a ball bearing. 3,633,982, 1-11-72, Cl. 308-191.

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Germann, John E.: See—
Shaper, Roger T.; and Germann, John E., 3,653,370.

Germann, Richard Paul: See—
Crovetti, Aldo Joseph; Germann, Richard Paul; and Blank, Arthur, 3,657,353.

Germann, Werner, to Amerasia Enterprises, Incorporated. Cartridge for a writing implement. 3,659,951, 5-2-72, Cl. 401-190.

Germano, Victor V.: See—
Malkin, Irving; Palm, Bert E.; De Ridder, Jon A.; and Germano, Victor V., 3,671,331.
Palm, Bert E.; and Germano, Victor V., 3,682,718.

Germanton, Charles Elias. Pushbutton combination lock. 3,704,607, 12-5-72, Cl. 70-220.000.

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Germer-Stringer Corporation: See—
Germer, Walter F., Jr.; Stringer, Carl W.; and Harrison, William H., 3,700,031.

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Germseid, Hans: See—
Geisler, Roland; and Germseid, Hans, 3,672,966.

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Geisler, Roland; Jansen, Georg; and Germseid, Hans Gunther, 3,687,858.

Germseid, Hans Gunther; and Geisler, Roland, to Henkel & Cie G.m.b.H. Process for the treatment of anodic oxidized aluminum surfaces. 3,657,077, 4-18-72, Cl. 204-35.

Germuska, Richard W., to Addressograph-Multigraph Corporation. Optical system having lens and two movable mirrors. 3,689,133, 9-5-72, Cl. 350-202.000.

Germand, Martin O.: See—
Sebenik, Roger F.; Germand, Martin O.; and Segura, Marnell A., 3,637,369.

Gernert, Brooke E.: See—
Straccia, William J.; Gernert, Brooke E.; and Sherer, Ronald B., 3,696,936.

Gerns, Fred R.: See—
Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., 3,646,140.

- Thomas, Robert M.; and Gerns, Fred R., 3,655,788.
 Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., 3,657,256.
 Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., 3,658,816.
 Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., 3,674,788.
 Gerola, Luciano, to Construzioni Generali Farsura-Cogefar S.p.A. Connecting horizontal panels and vertical panels in prefabricated buildings. 3,645,056, 2-29-72, Cl. 52-259.
 Geronime, Robert L., to Rosemount Inc. Heated roll temperature measurement compensator assembly. 3,697,726, 10-10-72, Cl. 219-469,000.
 Gerot Pharmazeutika Dr. Walter Otto K.G.: See—
 Otto, Walter, 3,637,696.
 Gerould, David S., to Weld-Motion, Inc. Wire feeder. 3,675,837, 7-11-72, Cl. 226-187,000.
 Gerow, Clare William, to Du Pont de Nemours, E. I., and Company. Laminar structures of polyimides. 3,642,569, 2-15-72, Cl. 161-189.
 Gerow, Milo. Extrusion die. 3,666,390, 5-30-72, Cl. 425-380,000.
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 Gerrard, A. J., and Company: See—
 Hoffmann, Anton R., 3,672,596.
 Koehler, Albert T.; Shideler, Paul J.; and Dohogne, Linus E., 3,673,950.
 Gerrard Company Ltd., mesne: See—
 Burrage, Benjamin S.; and Blair, George S., 3,675,760.
 Sykes, Thomas R., 3,667,591.
 Gerrard Industries Limited: See—
 Sansum, Robert David, 3,690,350.
 Gerretz, Josef; Hagedorn, Willi; and Kemmerling, Karl-Heinz, to Wean Industries, Inc. Method and device for feeding of cold pilger mills. 3,659,446, 5-2-72, Cl. 72-14.
 Gerring, Paul K., to Fanta Sea Swim Center, Inc. Swimming pool construction. 3,686,694, 8-29-72, Cl. 4-172,190.
 Gerritsen, Hans G.; Hansma, Hendrik; and Jaspers, Hans, to Koninklijke Industriële Maatschappij Noury & Van der Lande N.V. Bis [O-(carbo-2-ethylhexoxy)-benzoyl]peroxide as polyester curing agent. 3,636,137, 1-18-72, Cl. 260-861.
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 Gerritsen, Hendrik J.; and Hannan, William J., to RCA Corporation. Redundant, speckle-free hologram recording apparatus. 3,650,595, 3-21-72, Cl. 350-3,5.
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 Gerry, Paul W., to Dresser Industries, Inc. Electrical generator having non-salient poles for metering shaft rotation. 3,636,392, 1-18-72, Cl. 310-67.
 Gersbach, John E., to International Business Machines Corporation. Sense amplifier latch for monolithic memories. 3,676,703, 7-11-72, Cl. 307-235,000.
 Gersch, Josef: See—
 Putscher, Johann; Gersch, Josef; Wiedemann, Otto; and Winkler, Alfred, 3,665,829.
 Gersch, Richard C.; and Reynolds, Roland Bruce. Adjustable boring quill assembly. 3,640,633, 2-8-72, Cl. 408-12.
 Gersch, Richard C. Adjustable tool block assembly. 3,654,826, 4-11-72, Cl. 82-1,2.
 Gersch, Richard C. Adjustable tool block assembly. 3,689,169, 9-5-72, Cl. 408-150,000.
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 Gerson, Albert. Programmed plate making machine. 3,639,056, 2-1-72, Cl. 355-40.
 Gerson, Herman: See—
 Santimauro, John F.; and Gerson, Herman, 3,668,225.
 Gerstein, Terry; Perlberg, William; and Schwarz, Milton, to Revlon, Inc. Solubilization of heavy metal salts of 1-hydroxy-2-pyridinethione. 3,636,213, 1-18-72, Cl. 424-245.
 Gersten, Harold. Recreational rope-type article. 3,642,277, 2-15-72, Cl. 272-60.
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 Gerstenberg, Dieter. Method for fabrication of thin film capacitor. 3,664,931, 5-23-72, Cl. 204-38,00a.
 Gerstenberger, Roland W.; and Gunn, David P., to Jensen Machinery Inc. Folding apparatus. 3,706,450, 12-19-72, Cl. 270-84,000.
 Gerster, John F.: See—
 Harrington, Joseph Kenneth; Moore, George G. I.; and Gerster, John F., 3,696,122.
 Moore, George G. I.; and Gerster, John F., 3,679,695.
 Moore, George G. I.; Harrington, Joseph Kenneth; and Gerster, John F., 3,686,192.
 Gerster, John F., to Riker Laboratories, Inc., mesne. N-Cyanobenzoylhaloalkylsulfonamides. 3,647,874, 3-7-72, Cl. 260-556.
 Gerstle, De Witt F., to General Motors Corporation. Method for manufacturing a shock absorber reservoir tube. 3,643,322, 2-22-72, Cl. 29-482.
 Gerstmann, Joseph, to Steam Engine Systems Corporation. Heat exchange. 3,692,104, 9-19-72, Cl. 165-163,000.
 Gerstner, Dieter, to Telefunken Patentverwertungsgesellschaft m.b.H. Method of dividing a semiconductor wafer. 3,673,016, 6-27-72, Cl. 156-6,000.
 Gertag Aktiengesellschaft: See—
 Ehrat, Kurt, 3,657,477.
 Gertel, Gunter: See—
 Schmelzer, Hans-Georg; Gertel, Gunter; Degener, Eberhart; and Dahm, Manfred, 3,644,490.
 Gerth, Donald L.: See—
 Maag, Gustav A.; and Gerth, Donald L., 3,698,097.
 Gertisser, Berthold, to Sandoz Ltd.; a/k/a Sandoz A.G. Anthraquinone dyes. 3,652,601, 3-28-72, Cl. 260-380.
 Gertner, David: See—
 Belsky, Igal; Gertner, David; and Zilkha, Albert, 3,651,115.
 Gertsch, A.G.: See—
 Gertsch, Ernst; and Gertsch, Ulrich, 3,649,039.
 Gertsch, Ernst; and Gertsch, Ulrich. Adjusting device for a ski-binding. 3,635,485, 1-18-72, Cl. 280-11,35.
 Gertsch, Ernst; and Gertsch, Ulrich. Ski-binding with friction reducing means between ski-boot and ski. 3,647,234, 3-7-72, Cl. 280-11,35.
 Gertsch, Ernst; and Gertsch, Ulrich, to Gertsch, A.G. Longitudinally adjustable heel locking device on a ski-binding. 3,649,039, 3-14-72, Cl. 280-11,35.
 Gertsch, Ulrich: See—
 Gertsch, Ernst; and Gertsch, Ulrich, 3,635,485.
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 Gertsch, Ernst; and Gertsch, Ulrich, 3,649,039.
 Gertsch, Kai, to Sybron Corporation. Positioner. 3,655,069, 4-11-72, Cl. 214-1.
 Gertsen, Petr Petrovich; and Suverneva, Taisia Georgievna, to Permsky Politekhnicheskyy Institut. Method of purification of exhaust gases from nitric oxides. 3,695,828, 10-3-72, Cl. 23-2,00r.
 Gertsik, Mikhailovich: See—
 Nabiullin, Faat Khatovich; Buzova, Zoya Mikhailovna; Gertsik, Mikhailovich; and Zjuzin, Sergei Alexeevich, 3,677,824.
 Gertsman, Lev Alexandrovich: See—
 Abardovsky, Isaak Pavlovich; and Gertsman, Lev Alexandrovich, 3,671,387.
 Gertung, Kurt, to Hell, Rudolf, Dr.-Ing. Device for detecting defects in continuous web material. 3,666,951, 5-30-72, Cl. 250-219.
 Gervais, Adrien C. Tobacco harvesting machine. 3,654,753, 4-11-72, Cl. 56-27,5.
 Gervais, Joseph R.: See—
 Gardner, Fred M.; Gervais, Joseph R.; and Nettleton, Frank S., 3,668,457.
 Gervis, Melvyn A.; Wozny, Eugene Taras; and Giardina, Nicholas, to Magic Eye Associates, Inc. Protective device for a door. 3,645,045, 2-29-72, Cl. 49-504.
 Gerwick, Ben C., Jr., to Pomeroy, J. H., & Co., Inc. Stabilized construction wall in unstable footing. 3,667,238, 6-6-72, Cl. 61-39,000.
 Gerwig, Jeffrey C., to Windings, Inc. Box with inwardly tapering guide cones for universal wind package with radial pay-out. 3,677,491, 7-18-72, Cl. 242-163,000.
 Gerwitz, David L.: See—
 Adams, John S., Jr.; and Gerwitz, David L., 3,642,895.
 D'Amico, John Joseph; and Gerwitz, David L., 3,663,709.
 Gerwitz, David L.; and Chupp, John P., to Monsanto Company. Method for destroying soil nematodes. 3,639,591, 2-1-72, Cl. 424-216.
 Gerwitz, Paul F.: See—
 DeLong, Robert J.; and Gerwitz, Paul F., 3,648,217.
 Gerwitz, Paul F., to Spectrol Electronics Corporation. Combined potentiometer and switching structure with improved radial contact pressure contact means. 3,679,848, 7-25-72, Cl. 200-8,00a.
 Gery, Herbert C.; and Samson, Marvin S., to Medical Electroscience and Pharmaceuticals, Inc. Apparatus for printing on convex surfaces. 3,635,154, 1-18-72, Cl. 101-44.
 Gerzon, Koert: See—
 Kitchell, Barbara S.; and Gerzon, Koert, 3,681,322.

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 Gesche, Gunter, to Ahlmann-Carlshutte KG. Apparatus for applying a non-slip coating to an enameled bathtub or the like. 3,688,740, 9-5-72, Cl. 118-504,000.
 Geschka, Hugo Werner; Oberhoff, Wolfgang; and Korb, Klaus, to Beges AG. Washing machine. 3,672,188, 6-27-72, Cl. 68-12,00r.
 Geschwender, Robert C. Cellular structural products. 3,655,478, 4-11-72, Cl. 156-202.
 Geschwender, Robert C. Fabrication of honeycomb type cellular material. 3,684,618, 8-15-72, Cl. 156-361,000.
 Gesellschaft fur Kernforschung mbH: See—
 Drobnik, Stephan, 3,673,086.
 Malang, Siegfried, 3,700,553.
 Miessner, Horst, 3,683,287.
 Mueller, Richard Arno, 3,658,646.
 Muhlhauser, Otto, 3,653,653.
 Gesellschaft fur Kernverfahrenstechnik mbH: See—
 Zippe, Gernot, 3,667,265.
 Gesellschaft fur Nuklearmesstechnik und Industrie-Elektronik M. Knufelmann & Co. mbH: See—
 Knufelmann, Manfred; and Seidel, Ingo, 3,684,888.
 Gesellschaft zur Forderung der Forschung an der Eidgenossischen Technischen Hochschule: See—
 Greuter, Andre; and Korom, Arpad, 3,684,900.
 Gesellschaft zur Wiederaufarbeitung von Kernbrennstoffen m.b.H.: See—
 Gutter, Heinrich, 3,674,196.
 Geshelin, Boris Mikhailovich; Maximov, Mikhail Mikhailovich; Rozenberg, Maxim Davidovich; and Yakovleva, Nadezhda Evgenievna, to Vsesojuzny Niftegazovy Nauchno-Issledovatel'skiy Institut. Analogue computer for solution of non-linear boundary-value problem. 3,686,491, 8-22-72, Cl. 235-185,000.
 Geshner, Robert A.: See—
 Dodd, John A., Jr.; and Geshner, Robert A., 3,698,903.
 Geshtenkern, Rafail Yakovlevich: See—
 Artemenko, Anatoly Ivanovich; Geshtenkern, Rafail Yakovlevich; and Yagupov, Igor Nikolaevich, 3,683,902.
 Gesierich, Wolf: See—
 Kampfer, Helmut; Ohlschlager, Hans; and Gesierich, Wolf, 3,635,706.
 Gesing, Horst: See—
 Schimmer, Rigobert; and Gesing, Horst, 3,634,161.
 Schimmer, Rigobert; Gesing, Horst; and Cordes, Karl-Heinz, 3,706,015.
 Gesior, Augustyn M., to International Harvester Company. Granular chemical applicator with slidable metering means. 3,662,922, 5-16-72, Cl. 222-46,000.
 Gesler, Hans G., to Bodenseewerk Geratetechnik. Speed controller for aircraft. 3,662,976, 5-16-72, Cl. 244-77,00d.
 Gesner, Bruce David: See—
 De Fabritis, Raymond P.; Fefferman, Gerald Burt; Gesner, Bruce David; and Radner, Raymond John, 3,699,552.
 Gess, Larry C., to Xebec Corporation. Apparatus for filling, closing, and labeling containers. 3,653,176, 4-4-72, Cl. 53-64.
 Gess, Larry C. Apparatus for orienting and feeding caps. 3,656,605, 4-18-72, Cl. 198-33.
 Gess, Larry C. Apparatus for packaging articles. 3,672,119, 6-27-72, Cl. 53-131.
 Gessler, Hans, to Schwabische Huttenwerke Gesellschaft mit beschrankter Haftung. Silo discharging device. 3,666,117, 5-30-72, Cl. 214-17.
 Gessler, Hans, to Schwabische Huttenwerke Gesellschaft mit beschrankter Haftung. Rotor arm for silo discharging devices. 3,703,967, 11-28-72, Cl. 214-17,00d.
 Gestetner Limited: See—
 Gates, Albert George Ronald, 3,645,527.
 Gates, Albert George Ronald, 3,669,017.
 Gates, Albert George Ronald, 3,669,071.
 Gestler, David J.; Kovats, Zoltan; and Kolakowski, Alfred W., to Rockwell Manufacturing Company. Self generating remote reader register. 3,685,353, 8-22-72, Cl. 73-194,00e.
 Gestra KSB Vertriebsgesellschaft mbH & Co.: See—
 Hohn, Gerhard; Lingnau, Josef; and Rettemeier, Wulf, 3,679,131.
 Gestra-KSB Vertriebsgesellschaft mbH & Co.: See—
 Lingnau, Josef, 3,698,633.
 Getchell, Nelson F.; Berch, Julian; and Hollies, Norman R.S., to Cotton, Incorporated. Vapor phase resin fixation process for cellulose material permitting subsequent cure. 3,642,428, 2-15-72, Cl. 8-116,3.
 Getex Consult AG: See—
 Kleinaschoff, Josef; and Kleinaschoff, Brunhilde, 3,704,888.
 Getgey, William F.; and Meth, Harry, to Rainbow Crafts, Inc. Blow gun having target mounted on its barrel. 3,685,828, 8-22-72, Cl. 273-101,000.
 Gethmann, Kenneth W.; and Dye, Russell J. Separate clutch-brake control for backhoe. 3,656,595, 4-18-72, Cl. 192-13.
 Getker, James A.; and Weeks, Horace W., to National Cash Register Company. The Counter for variable size and shape objects. 3,692,980, 9-19-72, Cl. 235-92,0pk.
 Getman, Anatoly Fedorovich: See—
 Shulzhenko, Alexandr Alexandrovich; and Getman, Anatoly Fedorovich, 3,676,068.
 Getman, Harlan R., to Vroman Foods, Inc. Apparatus for the production of frozen confections. 3,632,245, 1-4-72, Cl. 107-8.
 Getselev, Zinoviy Naumovich. Induction apparatus for continuous and semicontinuous casting. 3,646,988, 3-7-72, Cl. 164-251.
 Getselev, Zinoviy Naumovich, to Kuibyshevsky Metallurgicheskyy zavod im V.I. Lenina. Apparatus for shaping ingots during continuous and semi-continuous casting of metals. 3,702,155, 11-7-72, Cl. 164-251,000.
 Gettinger, John F. Adjustable holding device. 3,671,032, 6-20-72, Cl. 269-72,000.
 Gettmann, Hermann: See—
 Hilgemann, Hans; and Gettmann, Hermann, 3,666,004.
 Getty Machine and Mold, Inc.: See—
 De Ghetto, Anslem, 3,662,597.
 Gettys Manufacturing Company, Incorporated: See—
 Hoffman, George A., 3,707,662.
 Getz, Edward H., to Whirlpool Corporation. Washing machine unbalance switch circuit. 3,636,734, 1-25-72, Cl. 68-12.
 Getz, Edward H., to Whirlpool Corporation. Motor speed control. 3,686,554, 8-22-72, Cl. 318-321,000.
 Getz, Harry W.: See—
 Camp, Arthur F., Jr.; and Getz, Harry W., 3,639,845.
 Getzin, Allan R.: See—
 Westlin, Karl L.; and Getzin, Allan R., 3,668,843.
 Geul, Herman R. Exhaust gas analyzer for internal combustion engines. 3,674,436, 7-4-72, Cl. 23-232,00e.
 Geurts, Cletus J. Semi-mounted plow and colter. 3,642,073, 2-15-72, Cl. 172-140.
 Geurts, Cletus J. Earth working implement. 3,642,074, 2-15-72, Cl. 172-26.
 Geurts, Melle F.: See—
 McArthur, Ralph F.; and Geurts, Melle F., 3,653,786.
 McArthur, Ralph F.; Kardoes, Max T.; and Geurts, Melle F., 3,659,967.
 McArthur, Ralph F.; and Geurts, Melle F., 3,687,573.
 Geus, John W., to Stamicarbon N.V. Ferromagnetic material. 3,654,161, 4-4-72, Cl. 252-62,56.
 Geus, John W.; and Lemmens, Jan C., to Stamicarbon N.V. Method and equipment for the preparation of catalytically active bodies. 3,668,149, 6-6-72, Cl. 252-448.
 Geus, John W., to Stamicarbon N.V. Process for the preparation of acicular, submicroscopic, permanently magnetizable metal particles. 3,679,398, 7-25-72, Cl. 75-108,000.
 Geus, John W., to Stamicarbon N.V. Process for preparing magnetizable material. 3,692,683, 9-19-72, Cl. 252-62,062.
 Geus, John W., to Stamicarbon N.V. Process for the preparation of permanently magnetizable mixed oxides containing iron. 3,704,226, 11-28-72, Cl. 252-62,560.
 Geusgens, Joseph T. V. M.: See—
 Heijnis, James W. I.; and Geusgens, Joseph T. V. M., 3,698,355.
 Geusic, Joseph E.; and Van Uiter, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Infrared energized visual displays using up-converting phosphor. 3,634,614, 1-11-72, Cl. 178-5,4.
 Geusic, Joseph Edward: See—
 Chesler, Ronald Benjamin; and Geusic, Joseph Edward, 3,684,893.
 Geusic, Joseph Edward; Ostermayer, Frederick William, Jr.; and Van Uiter, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Phosphorescent devices. 3,654,463, 4-4-72, Cl. 250-71.
 Geusic, Joseph Edward; Nelson, Terence John; and Schinke, David Paul, to Bell Telephone Laboratories, Incorporated. Ferroelectric domain shifting devices. 3,701,122, 10-24-72, Cl. 340-173,200.
 Gevaert Photo-Producten N.V.: See—
 Conix, Andre Jan; and Cassiers, Paul Maria, 3,654,461.
 Conix, Andre Jan; and Laridon, Urbain Leopold, 3,658,757.
 Gevaert-Agfa N.V.: See—
 Aelterman, Marcel Frans; and Stievenart, Emile Frans, 3,641,911.
 Brinckman, Eric Maria; and Meeussen, Louis Achilles, 3,645,733.
 Brinckman, Eric Maria; Van Den Heuvel, Walter August; Van-halst, Johan Eugene; and Heugebaert, Frans Clement, 3,700,452.
 Claeys, Daniel Alois, 3,690,983.
 Conix, Andre Jan; and Jeurissen, Lambert Gaston, 3,706,699.
 Conix, Andre Jan; and Jeurissen, Lambert Gaston, 3,706,711.
 De Belder, Maurice Hector; Duville, Rene Omer; Philippaerts, Herman Adelbert; Ghys, Theofiel Hubert; and Depoorter, Henri, 3,652,280.
 De Pauw, Alfons Jozef; and Carpentier, Jan Albert, 3,649,287.
 Delzenne, Gerard Albert; Smets, Georges Joseph; and Hoefnagels, Jan Antonius, 3,652,285.

Depoorter, Henri; Rillaers, Alfred; Lemahieu, Gerard; and Moelants, Felix Jan, 3,653,905.
 Depoorter, Henri; and Riester, Oskar, 3,656,958.
 Depoorter, Henri; Rillaers, Guy Alfred; Verhille, Karel Eugene; and Ghys, Theofiel Hubert, 3,660,085.
 Duden, Emanuel Hubert; and Cappuyns, Joseph Marie, 3,661,044.
 Hellemans, Albert Joseph, 3,642,221.
 Hoefnagels, Jan Antonius; Hiatt, Norman A.; and Smets, Georges Joseph, 3,696,098.
 Hofman, Emiel Alexander, 3,637,389.
 Hofman, Emiel Alexander; Ghys, Theofiel Hubert; and Depoorter, Henri, 3,647,460.
 Jeurissen, Lambert Gaston, 3,654,234.
 Jeurissen, Lambert Gaston; and Conix, Andre Jan, 3,658,760.
 Laridon, Urbain Leopold; Delzenne, Gerard Albert; and Peeters, Hugo Karel, 3,661,573.
 Laridon, Urbain Leopold; Delzenne, Gerard Albert; Poot, Albert Lucien; and Peeters, Hogo Karel, 3,682,642.
 Marinus, Victor Alois, 3,688,557.
 Natens, Luc Yves, 3,661,462.
 Noe, Robert Joseph; Willems, Jozef Frans; Poot, Albert Lucien; and Verhille, Karel Eugene, 3,634,080.
 Noe, Robert Joseph, 3,658,523.
 Noe, Robert Joseph; Willems, Jozef Frans; Poot, Albert Lucien; and Verhille, Karel Eugene, 3,692,522.
 Philippaerts, Herman Adelbert; Pollet, Robert Joseph; Willems, Jozef Frans; and Claes, Frans Henri, 3,661,592.
 Philippaerts, Herman Adelbert; Ghys, Theofiel Hubert; and Depoorter, Henri, 3,705,038.
 Pollet, Robert Joseph; and Vandenberghe, Antoon Leon, 3,679,423.
 Pollet, Robert Joseph; Philippaerts, Herman Adelbert; Willems, Jozef Frans; and Claes, Frans Henri, 3,704,130.
 Poot, Albert Lucien; and Delzenne, Gerard Albert, 3,642,484.
 Poot, Albert Lucien, 3,660,094.
 Rasschaert, Antoine Theofiel; Benoy, Gaston Jacob; and Van Besauw, Jan Frans, 3,637,787.
 Rillaers, Guy Alfred; Depoorter, Henri; and Moelants, Felix Jan, 3,687,670.
 Stievenart, Emile Frans; Mees, Omer Jan; and Verelst, Johan Lodewijk, 3,685,420.
 Stievenart, Emile Frans, 3,695,163.
 Tavernier, Bernard Hippolyte; De Meyer, Alfons Jozef; and Vanheertum, Johannes Josephus, 3,642,470.
 Thiers, Robrecht Julius; and Willems, Jozef Frans, 3,656,954.
 Van Besauw, Jan Frans; and Claes, Daniel Alois, 3,645,911.
 Van Besauw, Jan Frans; and Poot, Albert Lucien, 3,682,635.
 Van Den Heuvel, Walter August; Willems, Jozef Frans; Philippaerts, Herman Adelbert; Beels, Roland Francois; and Heylen, Renaat Frans, 3,661,584.
 Van Den Heuvel, Walter August; Vanhalst, Johan Eugene; and Brinckman, Eric Maria, 3,690,886.
 Van Doorselaer, Marcel Karel; Benoy, Gaston Jacob; Van Vugt, Jaak Pieter; and Van Poucke, Raphael Karel, 3,658,546.
 Van Hoof, Albert Emiel; and Holvoet, Georges Arthur, 3,660,147.
 Van Nuten, Emile, 3,657,645.
 Van Paesschen, August Jean; and Priem, Jan Jozef, 3,632,534.
 Van Paesschen, August Jean; and Priem, Jan Jozef, 3,635,713.
 Van Paesschen, August Jean; Van Gossum, Lucien Janbaptist; and Priem, Jan Jozef, 3,649,336.
 Van Paesschen, August Jean; and Van Gossum, Lucien Janbaptist, 3,650,740.
 Van Paesschen, August Jean; and Van Gossum, Lucien Janbaptist, 3,656,996.
 Vandeputte, Camille A.; and Van Pee, Paul Desire, 3,650,741.
 Vanheertum, Johannes Joseph; Poot, Albert Lucien; Willems, Jozef Frans; and Janssens, Wilhelmus, 3,660,084.
 Vanreusel, Gerard L.; and Vandeputte, Camille A., 3,637,387.
 Verbrugge, Marcel Hendrik; De Cat, Arthur Henri; and Van Doorselaer, Marcel Karel, 3,645,742.
 Verbrugge, Marcel Hendrik; and De Cat, Arthur Henri, 3,660,095.
 Verelst, Johan Lodewijk; Willems, Jozef Frans; and Florens, Raymond Leopold, 3,639,126.
 Verelst, Johan Lodewijk; and Reyniers, Albert August, 3,642,474.
 Verelst, Johan Lodewijk; and Willems, Jozef Frans, 3,652,274.
 Verhille, Karel; Conix, Andre Jan; and Noe, Robert Joseph, 3,687,658.
 Verhille, Karel E.; and Ghys, Theofiel Hubert, 3,649,264.
 Ville, Frans Jan; Willems, Jozef Frans; and Pattijn, Hendrik Adolf, 3,663,229.
 Vrancken, Marcel Nicolas; and Claes, Daniel Alois, 3,642,475.
 Vrancken, Marcel Nicolas, 3,642,480.
 Vrancken, Marcel Nicolas; and Claes, Daniel Alois, 3,649,271.
 Vrancken, Marcel Nicolas; Meeussen, Louis Achilles; and Claes, Daniel Alois, 3,661,579.
 Willems, Jozef Frans; and Riester, Oskar, 3,645,738.

Willems, Jozef Frans; and Vandenberghe, Antoon Leon, 3,650,749.
 Willems, Jozef Frans, 3,658,535.
 Willems, Jozef Frans; Heugebaert, Frans Clement; and Pollet, Robert Joseph, 3,667,957.
 Willems, Jozef Frans, 3,682,634.
 Willems, Jozef Frans; Thiers, Robrecht Julius; and Priet, Roger Alois, 3,687,662.
 Willems, Jozef Frans; Berendsen, Jules Robert; Pollet, Robert Joseph; and Vandenberghe, Antoon Leon, 3,689,273.
 Geven, Pieter Theodorus; and vanMullekom, Hubert Peter. Take up mechanism for weaving loom. 3,645,300, 2-29-72, Cl. 139-308.
 Gevirtz, Arthur H.: See—
 Hageman, Howard A.; Gevirtz, Arthur H.; and Von Schmeling, Bogislav, 3,632,646.
 Gewalt, Richard W. Lifting and towing bar for king pin equipped vehicles. 3,659,873, 5-2-72, Cl. 280-415.00a.
 Gewartowski, Richard S., to Magnaflux Corporation. Billet handling system including magnetic pick-off means. 3,645,376, 2-29-72, Cl. 198-27.
 Gewe, Jürgen: See—
 Neurath, George; Gewe, Jürgen; and Dunger, Michael, 3,651,815.
 Gewerkschaft Eisenhütte Westfalen: See—
 Beulker, Franz; and Hoffmann, Erich, 3,651,652.
 Marquart, Alfred, 3,648,969.
 Plester, Karl Heinz; and Hessel, Heinz, 3,656,411.
 Rassmann, Christoph; and Heyer, Willy, 3,640,581.
 Temme, Helmut, 3,653,492.
 Gewertz, Harry R.; and Read, George D., to Ajax Hardware Manufacturing Corporation. Auxiliary lock for swinging doors. 3,640,558, 2-8-72, Cl. 292-264.
 Gey, William A.; and Wiebke, Armin T., to United States of America, Navy. Method and means for dispersing chemical agents. 3,636,874, 1-25-72, Cl. 102-6.
 Geyer, Gerald R.: See—
 Jones, Giffin D.; Geyer, Gerald R.; and Hatch, Melvin J., 3,673,164.
 Jones, Giffin D.; Geyer, Gerald R.; and Hatch, Melvin J., 3,686,279.
 Jones, Griffin D.; Geyer, Gerald R.; and Hatch, Melvin J., 3,679,748.
 Geyer, Harry J.: See—
 Helda, Robert W.; and Geyer, Harry J., 3,698,074.
 Geyer, Harry J.; and Helda, Robert W., to Motorola, Inc. Apparatus for connecting lead portions of a lead frame to respective pads on a chip. 3,698,620, 10-17-72, Cl. 228-6.000.
 Geyer, Jerome; Hu, Shih-En; and Robbins, Max L., to Esso Research and Engineering Company. Mineral lubricating oil compositions containing alkaline earth metal sulfonates and phosphites and process producing same. 3,655,558, 4-11-72, Cl. 252-33.
 Geyer, Lewis H.: See—
 Hawk, George W.; Geyer, Lewis H.; Mastropole, Alfred J.; and Garnjost, Kenneth D., 3,646,762.
 Geyer, Manvel A.: See—
 Kernick, Andrew; Geyer, Manvel A.; Ernsberger, Glenn W.; and Vonderembse, John F., 3,636,430.
 Kernick, Andrew; Geyer, Manvel A.; and Ernsberger, Glenn W., 3,648,150.
 Geyer, Paul, to Uniroyal, Inc. Extrusion apparatus. 3,632,255, 1-4-72, Cl. 18-12.
 Geyer, Robert L., to Foster Poultry Farms. Carton lidding machine. 3,688,466, 9-5-72, Cl. 53-67.000.
 Geyken, Erwin: See—
 Frick, Hans-Dieter; Geyken, Erwin; Dawidowitsch, Peter; and Schausberger, Helmut, 3,688,677.
 Frick, Hans-Dieter; Geyken, Erwin; Dawidowitsch, Peter; and Schausberger, Helmut, 3,693,528.
 Kohler, Roland; Frick, Hans-Dieter; Fengler, Harald; and Geyken, Erwin, 3,678,843.
 Geyler, Arthur H., to Gray, G. A., Company. The turret indexing assembly. 3,703,027, 11-21-72, Cl. 29-39.000.
 Geymeier, Winfried. Block set. 3,678,613, 7-25-72, Cl. 46-25.000.
 GFM Gesellschaft für Fertigungstechnik und: See—
 Kralowetz, Bruno; and Heimel, Othmar, 3,681,966.
 GFM Gesellschaft für Fertigungstechnik und Maschinenbau Aktien-gesellschaft: See—
 Blaischein, Gottfried, 3,690,142.
 Kralowetz, Bruno; and Braunwieser, Johann, 3,645,126.
 Ghafghaichi, Majid, to International Business Machines Corporation. Method and apparatus for characterizing test elements on the basis of rise-time degradation. 3,668,522, 6-6-72, Cl. 324-158.00t.
 Ghassemi, Masood: See—
 Recht, Howard L.; and Ghassemi, Masood, 3,692,671.
 Gheen, Lyndle G.; and Daniels, Paul J., to Pierce, R. H. Manufacturing Company. Canted seal irrigation coupling. 3,642,306, 2-15-72, Cl. 285-5.
 Ghejan, Ion: See—
 Bucur, Victor; Filotti, Traian Mircea; Georgescu, Eugenia; Mazare, Theodora; Ghejan, Ion; Zirna, Ion; Popescu, Elena Lygia; and Ioszt, Toma, 3,657,153.

Georgescu, Eugenia; Ghejan, Ion; Bugur, Victor; Zirna, Ion; Mazare, Theodora; Popescu, Elena-Lygia; Olteanu, Bujor; Marculescu, Nicolae; Filotti, Traian-Mircea; Barbul, Marius-Aurel; and Calin, Ion, 3,673,109.
 Georgescu, Eugenia; Ghejan, Ion; Bucur, Victor; Mazare, Theodora; Zirna, Ion; Popescu, Elena Lygia; Budu, Adrian; Olteanu, Bujor; Filotti, Traian Mircea; and Barbul, Marius Aurel, 3,707,509.
 Ghelardoni, Mario; and Russo, Filippo, to A. Menarini S.A.S. o-Alkylxy-benzoyl-hydrazones of pyruvic acid, employable as antirheumatic, antipyretic and analgesic products. 3,651,133, 3-21-72, Cl. 260-519.
 Ghetie, Victor F.: See—
 Schell, Horst D.; and Ghetie, Victor F., 3,651,041.
 Schell, Horst D.; and Ghetie, Victor F., 3,651,043.
 Ghetti, Giuseppe: See—
 Corradini, Giorgio; Ghetti, Giuseppe; Cesca, Sebastiano; and Roggero, Arnaldo, 3,668,156.
 Corradini, Giorgio; Ghetti, Giuseppe; Cesca, Sebastiano; and Arrighetti, Sergio, 3,691,141.
 GHH-M.A.N. Technik Gesellschaft für Anlagenbau m.b.H.: See—
 Kunz, Gerhard K., 3,679,581.
 GHH-M.A.N. Technik Gesellschaft für Anlagenbau m.b.H., mesne: See—
 Kunst, Bernhard, 3,649,471.
 Ghia, Giancarlo: See—
 Parodi, Luciano; and Ghia, Giancarlo, 3,666,231.
 Ghielmetti, Giuseppe: See—
 Notarianni, Aurelio Filippo; and Ghielmetti, Giuseppe, 3,639,594.
 Ghielnitti AG: See—
 Kirchdorf, Josef, 3,636,282.
 Ghilardi, Giuliana: See—
 Kalopissis, Gregoire; De Beaulieu, Henri Philippe; Abegg, Jean-Louis; and Ghilardi, Giuliana, 3,661,161.
 Kalopissis, Gregoire; De Raymond, Henri Philippe; Abegg, Jean-Louis; and Ghilardi, Giuliana, 3,672,375.
 Ghilardi, Giuliana: See—
 Kalopissis, Gregoire; Abegg, Jean-Louis; Ghilardi, Giuliana; and Philippe de Beaulieu, Henri, 3,694,141.
 Ghilardi, Giuliana: See—
 Kalopissis, Gregoire; Abegg, Jean-Louis; Ghilardi, Giuliana; and de Beaulieu, Henri Philippe, 3,642,429.
 Kalopissis, Gregoire; Abegg, Jean-Louis; Ghilardi, Giuliana; and de Beaulieu, Henri Philippe, 3,678,157.
 Ghilardi, Giuliana; Kalopissis, Gregoire; De Beaulieu, Henri Philippe; and Abegg, Jean-Louis, to Societe anonyme dite: L'Oreal. Neutralizing compositions for permanent wave operation. 3,676,546, 7-11-72, Cl. 424-71.000.
 Ghirga, Marcello: See—
 Calcagno, Benedetto; Ghirga, Marcello; and Bertolini, Natale, 3,691,098.
 Calcagno, Benedetto; Ghirga, Marcello; and Ferlazzo, Natale, 3,657,371.
 Calcagno, Benedetto; Ferlazzo, Natale; and Ghirga, Marcello, 3,663,455.
 Ghirga, Marcello; Bertolini, Natale; and Di Fiore, Lucio, to Societa Italiana Resine S.p.A. Method of preparing alkylbenzenes. 3,683,043, 8-8-72, Cl. 260-671.00b.
 Ghisalba S.p.A.: See—
 Quario, Gian Luigi, 3,694,605.
 Ghiz, George J. Pop-up head for water jet-pool cleaning system. 3,675,252, 7-11-72, Cl. 4-172.170.
 Ghobert, Pierre M.: See—
 Lucien, Rene; Pascal, Yves A.; and Ghobert, Pierre M., 3,661,052.
 Ghose, Rabindra N.; and Sauter, Walter A., to American Nucleonics Corporation. Interference cancellation system. 3,699,444, 10-17-72, Cl. 325-21.000.
 Ghose, Tarun K., to United States of America, Army. Enzymatic saccharification of cellulose. 3,642,580, 2-15-72, Cl. 195-33.
 Ghosh, Ranajit; Bishop, Nigel Douglas; and Bullock, Derek John William, to Imperial Chemical Industries, Limited. 2-Acylamino pyrimidin-4yl carbamates. 3,652,566, 3-28-72, Cl. 260-256.4.
 Ghosh, Ranajit; Bishop, Nigel Douglas; and Peacock, Frederick Charles, to Imperial Chemical Industries Limited. 1,4-Dithia-cycloheptyliden-6-iminyl carbamates. 3,661,930, 5-9-72, Cl. 260-327.
 Ghosh, Ranajit; and Bishop, Nigel Douglas, to Imperial Chemical Industries Limited. Fungicidal composition containing thio-carbamyl-y-lactones. 3,678,167, 7-18-72, Cl. 424-248.000.
 Ghoshtagore, Rathindra N.; and Yut, Robert F., to Westinghouse Electric Corporation. Chemical vapor deposition of dielectric thin films of rutile. 3,650,815, 3-21-72, Cl. 117-106.
 Ghougasian, John N. Fuel injection nozzle valve. 3,632,047, 1-4-72, Cl. 239-533.
 Ghougasian, John N. Reverse thrust device for supersonic jet engine. 3,650,110, 3-21-72, Cl. 60-230.
 Ghyczy, Mikols: See—
 Asinger, Friedrich; Offermanns, Heribert; and Ghyczy, Mikols, 3,700,683.
 Ghyczy, Peter. Chair. 3,655,242, 4-11-72, Cl. 297-445.
 Ghys, Theofiel Hubert: See—
 De Belder, Maurice Hector; Duville, Rene Omer; Philippaerts, Herman Adelbert; Ghys, Theofiel Hubert; and Depoorter, Henri, 3,652,280.
 Depoorter, Henri; Rillaers, Guy Alfred; Verhille, Karel Eugene; and Ghys, Theofiel Hubert, 3,660,085.
 Depoorter, Henri; and Ghys, Theofiel Hubert, 3,676,119.
 Hofman, Emiel Alexander; Ghys, Theofiel Hubert; and Depoorter, Henri, 3,647,460.
 Philippaerts, Herman Adelbert; Ghys, Theofiel Hubert; and Depoorter, Henri, 3,705,038.
 Vanheertum, Johannes Josephus; Ghys, Theofiel Hubert; and Depoorter, Henri, 3,684,505.
 Verhille, Karel E.; and Ghys, Theofiel Hubert, 3,649,264.
 Ghysels, David G., to Grove Manufacturing Company. Calculator for determining required extensible crane boom for use on a particular job site. 3,686,765, 8-29-72, Cl. 33-97.000.
 Giaccone, Giuseppe, to RTV-SKF Officine di Villar Perosa S.p.A. Resilient bush. 3,685,772, 8-22-72, Cl. 248-9.000.
 Giachetti, Alfredo; Maranghi, Enzo; and Piericci, Angiolo, to Billi, G., & C. S.p.A. Device for tensioning stitches being formed in hosiery dual-bed flat machines. 3,685,317, 8-22-72, Cl. 66-64.000.
 Giachino, Eugene L.: See—
 Burton, Raymond V., Jr.; and Giachino, Eugene L., 3,683,675.
 Giacino, Christopher: See—
 Katz, Ira; Wilson, Richard A.; and Giacino, Christopher, 3,681,088.
 Katz, Ira; Evers, William John; and Giacino, Christopher, 3,706,577.
 Mussinan, Cynthia; Giacino, Christopher; and Katz, Ira, 3,677,772.
 Giacometti, Alberto: See—
 Molo, Francesco; and Giacometti, Alberto, 3,691,306.
 Giacomelli, Umberto. Anodic assembly for electrolysis cells. 3,642,604, 2-15-72, Cl. 204-286.
 Giacomelli, Umberto. Electrolytic cell. 3,700,582, 10-24-72, Cl. 204-275.000.
 Giacosa, Dante: See—
 Torazza, Giovanni; and Giacosa, Dante, 3,641,988.
 Giafranco, Maris: See—
 Bruno, Maris; and Giafranco, Maris, 3,652,140.
 Giamo, Edward Charles, Jr., to RCA Corporation. Manifold for fountain-type liquid dispenser. 3,664,298, 5-23-72, Cl. 118-637.000.
 Giamo, Edward Charles, Jr., to RCA Corporation. Apparatus for charging a recording element with an electrostatic charge of a desired amplitude. 3,699,335, 10-17-72, Cl. 250-49.5zc.
 Gialdi, Franco: See—
 Vitali, Tullio; Scrivani, Pietro; Ponci, Riccardo; Pellegrini, Giovanni; Gialdi, Franco; and Arsur, Emilio, 3,657,263.
 Giambalvo, Vito Albert; and Ruby, Philip Randolph, to American Cyanamid Company. Preparation of pigmentary beta-quin-acridone. 3,697,464, 10-10-72, Cl. 260-279.00r.
 Giambra, Edward H., to Hercules Incorporated. Stabilization of thermally unstable dimethyl terephthalate. 3,659,007, 4-25-72, Cl. 260-475.
 Giambone, Harry Joseph, to Baxter Laboratories, Inc. Elastic gloves. 3,707,005, 12-26-72, Cl. 2-163.000.
 Giamei, Anthony F.: See—
 Copley, Stephen M.; Giamei, Anthony F.; Hornbecker, Merton F.; and Kear, Bernard H., 3,690,368.
 Giamei, Anthony F.; and Terkelsen, Bruce E., to United Aircraft Corporation. Casting of directionally solidified articles. 3,700,023, 10-24-72, Cl. 164-60.000.
 Giammarco, Giuseppe, 1/2 to Vetrocoke Cokapuania S.p.A. Gas purification process. 3,659,401, 5-2-72, Cl. 55-43.
 Giampalmi, John J., Jr.; Telegdy, Istvan K.; and Wirth, Manfred, to Dow Chemical Company. The dry cleaning method. 3,689,211, 9-5-72, Cl. 8-142.000.
 Gianese, Goffredo, to AMF Incorporated. Cigarette rod cut-off device. 3,650,169, 3-21-72, Cl. 83-310.
 Gianese, Goffredo, to AMF Incorporated. Cigarette packer hopper automatic feeding device. 3,655,080, 4-11-72, Cl. 214-302.
 Giangliulo, Clayton E. Stabilizer assembly. 3,656,524, 4-18-72, Cl. 146-1.
 Giani, Mario; Molteni, Luigi; and Gori, Enzo, to Zambelletti, L., Dr., S.p.A. Drug with hypertensive action on the base of 1-(3,4-dimethoxy-4-hydroxyphenyl)-2-mono-methylaminoethanol. 3,646,144, 2-29-72, Cl. 260-570.6.
 Giannaccari, Bindo Massimo; and Galli, Riccardo, to Montecatini Edison S.p.A. Process for the preparation of tin-alkyls. 3,651,108, 3-21-72, Cl. 260-429.7.
 Giannetti, Joseph P.; and Plundo, Robert A., to Gulf Research & Development Company. Lubricating composition. 3,637,503, 1-25-72, Cl. 252-59.
 Gianni, Michael H.: See—
 Engel, Lawrence J.; Gianni, Michael H.; and Wiener, Charles, 3,692,837.

- Giannini, Michele. Method for the covering of moldable articles (in particular, the heels and soles of shoes) and mold for application of said method. 3,705,934, 12-12-72, Cl. 264-219.000.
- Giannini, Gabriel M., to Giannini Institute. Flash tube apparatus. 3,651,366, 3-21-72, Cl. 313-204.
- Giannini Institute: See—
- Giannini, Gabriel M., 3,651,366.
- Giannini, Mario, to Malesci S.A.S. Istituto Farmacobiologico. N-Alkyl-n'-(1-naphthyl) ethylene diamines. 3,704,322, 11-28-72, Cl. 260-558.00r.
- Giannini, Mary Suzanne: See—
- Aszalos, Adorjan; Robison, Robert S.; Kraemer, Nancy; Henshaw, Jo Ann; and Giannini, Mary Suzanne, 3,674,867.
- Giannone, Anthony J., Sr. Decorative panel assembly. 3,650,881, 3-21-72, Cl. 161-111.
- Giardina, Angelo Robert, to Westinghouse Electric Corporation. Steam generator. 3,651,789, 3-28-72, Cl. 122-32.
- Giardina, Nicholas: See—
- Gervis, Melvyn A.; Wozny, Eugene Taras; and Giardina, Nicholas, 3,645,045.
- Giardini, Dante S.; Preston, George A.; and Roney, Richard N., to Bendix Corporation. The Method of severing filamentary material. 3,640,163, 2-8-72, Cl. 83-53.
- Giardini, Dante S., to Bendix Corporation. The Arrangement for internal form grinding portions of spherical surfaces. 3,673,739, 7-4-72, Cl. 51-73.00r.
- Giardini, Dante S.; and Szempruch, Robert S., to Bendix Corporation. The Grinding method and apparatus. 3,673,740, 7-4-72, Cl. 51-95.0wh.
- Giardini, Dante S.; and Wieg, Heinrich J., to Bendix Corporation. The Machine assembly. 3,673,743, 7-4-72, Cl. 51-168.000.
- Giardini, Dante S.; and Chhabra, Indarmohan S., to Bendix Corporation. The Method and apparatus for internal plunge grinding. 3,699,728, 10-24-72, Cl. 51-356.000.
- Giarrizzo, Lawrence P. Exhaust filter attachment. 3,675,398, 7-11-72, Cl. 55-316.000.
- Giarrusso, Gino A.: See—
- Silverman, Herbert P.; and Giarrusso, Gino A., 3,676,188.
- Giasi, Joseph P. Pallet. 3,680,494, 8-1-72, Cl. 108-51.000.
- Giatti, Filippo, to AMF Incorporated. Double length filter plug and cigarette connector sheet applicator. 3,665,930, 5-30-72, Cl. 131-21.00r.
- GIB Precision Limited: See—
- Orwin, Olaf John Barclay, 3,703,817.
- Gibas, Jack E., to General Motors Corporation. Adjustable control pedals for vehicles. 3,643,525, 2-22-72, Cl. 74-512.
- Gibb, Alexander Ramsay Maund; and Darlow, Brian Benjamin, to Imperial Chemical Industries Limited. Maleic anhydride/alkyl vinyl ether copolymer. 3,632,561, 1-4-72, Cl. 260-78.5.
- Gibb, Thomas B., Jr.: See—
- Wynstra, John; and Gibb, Thomas B., Jr., 3,704,268.
- Gibbins, Charles Lewis: See—
- O'Hara, James; and Gibbins, Charles Lewis, 3,668,716.
- Gibbon, John D., to Fiber Industries, Inc. Fibrillated film yarn. 3,695,025, 10-3-72, Cl. 57-140.00r.
- Gibbons, Arthur S.: See—
- Midulla, Giuseppe, 3,699,046.
- Gibbons, Carl B.; Kerr, William C.; and Maddocks, Roger H., to Eastman Kodak Company. Web treatment method. 3,702,258, 11-7-72, Cl. 117-34.000.
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- Gibson, Royal H., 3,690,496.
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- Gibson, Charles B., Jr., to Tektronix, Inc. Facsimile system. 3,679,824, 7-25-72, Cl. 178-6.70r.
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- Gibson, Earl D., to North American Rockwell Corporation. Automatic transversal equalizer system. 3,651,316, 3-21-72, Cl. 235-152.
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- Giddings & Lears, Inc.: See—
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- Giddings & Lewis, Inc.: See—
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- Fitzner, Arthur O., 3,634,661.
- Franklin, George H., 3,681,837.
- Jones, Gordon H.; and Klabunde, Steven E., 3,649,051.
- McGee, John K., 3,656,124.
- Tullis, Lyell C.; and Moon, Richard G., 3,653,489.
- Zettler, William D., 3,688,387.
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- Gidon, Marie-Claire: See—
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- Giebler, Wolfgang: See—
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- Gier, Delta W.; and Wasleski, Daniel M., to Chemagro Corporation. Chloronitrophenyl ethers as nematocides. 3,655,893, 4-11-72, Cl. 424-250.
- Gier, Delta W., to Baychem Corporation, mesne. Dialkenyl esters of aryloxyacetyl phosphonic acids as herbicides. 3,664,822, 5-23-72, Cl. 71-86.000.
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Burrows, Clifford G.; Magnuson, John E.; and Giese, Ludi, 3,706,464.
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Burns, Gerald; Giess, Edward A.; and O'Kane, Daniel F., 3,640,865.
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Lorenz, Gunter; Gallus, Manfred; Giessler, Wolfgang; and Nischk, Gunther, 3,669,928.
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- Giffard, Louis Henri Jules: *See—*
Fougerey, Jean Henri Roger; and Giffard, Louis Henri Jules, 3,679,342.
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Whipple, William D.; and Gifford, Howard W., 3,689,974.
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Bartlett, William F.; Gifford, John C.; Lenk, Pedro A.; Oswald, William A.; Shaw, Frank Y.; Stuebe, Thomas D.; and Yost, Lloyd H., 3,662,349.
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Drake, Elisabeth M.; and Gifford, William E., 3,686,828.
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Murray, Russell; and Gignoux, Dominique, 3,700,909.
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Faure, Alphonse; Gigou, Claude; Mingat, Robert; and Rouaud, Michel, 3,639,320.
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Burke, William F.; Gihring, Daniel A.; and Jones, Thomas E., 3,666,928.
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Okada, Sadayuki; and Nomura, Seinosuke, 3,686,845.
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Kato, Masao; Tanaka, Goro; and Yamamoto, Setgoro, 3,644,736.
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Greif, Herbert C., 3,680,909.
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Bretti, Franco; and Gilardi, Emilio, 3,646,551.
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Crandall, Stanley C.; Harris, Billy J.; and Nelson, Richard L., 3,662,924.
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- Gilbert, Alfred R.: *See—*
Becker, Hans-Dieter; and Gilbert, Alfred R., 3,637,593.
- Gilbert, Andre Nicolaon: *See—*
Teichner, Stanislas Jean; and Gilbert, Andre Nicolaon, 3,672,833.
- Gilbert, Arthur E., to Sears, Roebuck and Co. Outboard motor mounting bracket. 3,698,672, 10-17-72, Cl. 248-4.000.
- Gilbert, Arthur N.: *See—*
Kempson, George C.; and Gilbert, Arthur N., 3,682,476.
- Gilbert Associates, Inc.: *See—*
Shields, William B.; Willems, Victor H.; and Sailer, William F., 3,668,472.
- Gilbert, Barrie, to Tektronix, Inc. Character generator apparatus. 3,651,510, 3-21-72, Cl. 240-324.
- Gilbert, Barrie, to Tektronix, Inc. Four-quadrant multiplier circuit. 3,689,752, 9-5-72, Cl. 235-194.000.
- Gilbert, Barrie, to Tektronix, Inc. Solid state scanning device. 3,697,785, 10-10-72, Cl. 307-303.000.
- Gilbert, Daniel Eugene; Nelson, Larry Ralph; Sturgeon, Charles Edwin; and Thom, Robert Keith, to Vulcan Materials Company. Pulverulent drain cleaning composition. 3,666,670, 5-30-72, Cl. 252-160.
- Gilbert, David Arthur: *See—*
Arnold, Benjamin Harry; Fildes, Robert Anthony; and Gilbert, David Arthur, 3,658,649.

- Gilbert, David Stone, to Imperial Chemical Industries Limited. Manufacture of laminated articles. 3,684,598, 8-15-72, Cl. 156-79.000.
- Gilbert, Dixie E., to Phillips Petroleum Company. Propylene polymer composition containing small amounts of urea, phthalic anhydride, and PVC. 3,644,592, 2-22-72, Cl. 260-897.
- Gilbert, Dixie E., to Phillips Petroleum Company. Stellite neck forming plug for blow molding oriented articles. 3,649,150, 3-14-72, Cl. 425-297.
- Gilbert, Dixie E., to Phillips Petroleum Company. Oriented articles from retracted blank. 3,662,049, 5-9-72, Cl. 264-89.
- Gilbert, Dixie E., to Phillips Petroleum Company. Sealing parisons using preblow and contoured sealing surface. 3,686,379, 8-22-72, Cl. 264-89.000.
- Gilbert, Dixie E., to Phillips Petroleum Company. Alternate projections in sealing member. 3,687,593, 8-29-72, Cl. 425-387.000.
- Gilbert, Dixie E., to Phillips Petroleum Company. Forming plug for blow molding oriented articles. 3,695,805, 10-3-72, Cl. 425-393.000.
- Gilbert, Edward O., to Applied Dynamics, Inc. Transistor gating circuit for analog data transmission system. 3,633,165, 1-4-72, Cl. 340-147.
- Gilbert, Edward O., to Reliance Electric Company. DC amplifier power-limited output stage. 3,636,464, 1-18-72, Cl. 330-24.
- Gilbert, Everett A.; and Williams, Channing S., to RFL Industries, Inc. Capacitor charging circuit. 3,659,178, 4-25-72, Cl. 320-1.
- Gilbert, Everett E.: *See—*
Dear, Robert E. A.; and Gilbert, Everett E., 3,646,221.
- Gilbert, Everett E.; and Dear, Robert E. A., to Allied Chemical Corporation. Process for preparing fluoroisobutylenes and novel product. 3,655,786, 4-11-72, Cl. 260-653.3.
- Gilbert, Frederick W.: *See—*
Hunter, Jack A.; and Gilbert, Frederick W., 3,649,470.
- Gilbert, George J.: *See—*
McGeough, Patrick L.; Gilbert, George J.; and Henrikson, Donald F., 3,651,434.
- Gilbert, Ina. Design elements for creating artistic compositions. 3,665,617, 5-30-72, Cl. 35-27.000.
- Gilbert, Jack A.; and Franklyn, Stanley, to Container Company of New York. Apparatus for manufacturing corrugated angle members. 3,652,367, 3-28-72, Cl. 156-463.
- Gilbert, Jack J.: *See—*
Cover, Peter H.; and Gilbert, Jack J., 3,634,176.
- Gilbert, Jerry E., 50% to Foster, James Craig, Jr. Hair collecting collar for barbershop use. 3,693,634, 9-26-72, Cl. 132-9.000.
- Gilbert, John B.; and Kartzmark, Robert, to Esso Research and Engineering Company. Preparation of white oils with aluminum-alkyl activated iron group metal catalysts. 3,658,692, 4-25-72, Cl. 208-89.
- Gilbert, Karen T.: *See—*
Gilbert, Stuart John; and Gilbert, Karen T., 3,643,997.
- Gilbert, Stuart John; and Gilbert, Karen T., 3,680,916.
- Gilbert, Kendall E., to General Electric Company. Manual and automatic master-slave control system. 3,644,816, 2-22-72, Cl. 318-663.
- Gilbert, Kendall E. Manipulator system. 3,693,504, 9-26-72, Cl. 91-385.000.
- Gilbert, LeLand Glen: *See—*
Hunger, Richard H.; and Gilbert, LeLand Glen, 3,705,656.
- Gilbert, Leslie Arthur, to Ray and Gilbert Proprietary Limited. Drafting machine. 3,673,691, 7-4-72, Cl. 33-79.00r.
- Gilbert, Lloyd A., 51% to Pozzi, Frank, Wilson, Donald R., Atchison, Donald, and Kahn, Garry. Lumber slicing apparatus. 3,658,103, 4-25-72, Cl. 144-162.
- Gilbert, Lynford W.: *See—*
Rushing, Frank C.; Gilbert, Lynford W.; and Simon, Albert B., 3,635,547.
- Gilbert, Paul T., to Beckman Instruments, Inc. Osmometer. 3,635,075, 1-18-72, Cl. 73-64.3.
- Gilbert, Ronald E.: *See—*
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- Ansporn, Harry D.; Clappitt, Bert H.; and Gilbert, Ronald E., 3,681,313.
- Gilbert, Roswell W., to Technical Management Services, Inc. Target indicating system and method. 3,678,495, 7-18-72, Cl. 340-323.000.
- Gilbert, Roswell W., to Technical Management Services, Inc. Magnetic support and motor structure. 3,698,775, 10-17-72, Cl. 308-10.000.
- Gilbert, Samuel, to Hydro Manufacturing, Inc. Diverter valve assembly. 3,667,683, 6-6-72, Cl. 239-428.5.
- Gilbert, Stuart John; and Gilbert, Karen T., to Harter Corporation. Seating unit and web therefor. 3,643,997, 2-22-72, Cl. 297-441.
- Gilbert, Stuart John; and Gilbert, Karen T., to Harter Corporation. Lounge seating unit and web therefor. 3,680,916, 8-1-72, Cl. 297-440.000.
- Gilbert, Walter W.: *See—*
Balthis, Joseph H., Jr.; and Gilbert, Walter W., 3,634,030.
- Gilbertson, Warren L.: *See—*
Spencer, John H.; Ramsey, Richard T.; and Gilbertson, Warren L., 3,669,021.
- Gilbertson, Warren L.; Shelton, Everett T., Jr.; and Southall, Hobert M., to United States of America, Navy. Electronically controlled aimed blast warhead. 3,703,865, 11-28-72, Cl. 102-56.000.
- Gilbey Equipment Ltd.: *See—*
Scott, Herbert W., 3,664,384.
- Gilbo, Charles F.; and Johnson, Norman A., to Armstrong Cork Company. Apparatus and method of installing a spline in a ceiling board joint. 3,640,045, 2-8-72, Cl. 52-747.
- Gilbreath, Dennis R., to United Aircraft Corporation. Function generator. 3,643,107, 2-15-72, Cl. 307-229.
- Gilbreath, John: *See—*
Riley, Ray Joe, 3,700,459.
- Gilbreth International Corporation: *See—*
Sakurai, Masao, 3,640,417.
- Gilbride, Andrew J.: *See—*
Simmonds, Robert C., Jr.; and Gilbride, Andrew J., 3,632,022.
- Gilby, Anthony C., to Wilks Scientific Corporation. Apparatus and method for analysis by attenuated total reflection. 3,669,545, 6-13-72, Cl. 356-74.000.
- Gilby, Patricia G., to Hercules Incorporated. Inhibiting the precipitation and/or deposition of ferric hydroxide in aqueous systems. 3,639,292, 2-1-72, Cl. 252-179.
- Gilby, Patricia G.; and Heineman, William R., to Hercules Incorporated. Hexavalent chromium reduction. 3,679,557, 7-25-72, Cl. 204-97.000.
- Gilch, Heinrich; Darsow, Gerhard; Bottenbruch, Ludwig; Lorenz, Gunter; Kunzel, Hans Egon; Nischk, Gunther; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of nitroarylether-monocarboxylic acids and their esters. 3,642,882, 2-15-72, Cl. 260-520.
- Gilch, Heinrich; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polyamide foams. 3,679,613, 7-25-72, Cl. 260-2.50n.
- Gilch, Heinrich; Damsky, Walter; and Reinking, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polyamide foam. 3,682,847, 8-8-72, Cl. 260-2.50n.
- Gilch, Heinrich; Schneider, Kurt; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polyamide foams. 3,702,313, 11-7-72, Cl. 260-2.50n.
- Gilch, Heinz; and Schnell, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Esters of substituted phenoxyphthalic acids. 3,686,266, 8-22-72, Cl. 260-465.00d.
- Gilchrist, Allan E., to SCM Corporation. Surfactant treating process for blemished electrocoat substrates and surfacer composition therefor. 3,671,464, 6-20-72, Cl. 252-511.000.
- Gilchrist, Allan E., to SCM Corporation. Process for electrolytic treatment of liquors using pressure cell with porous electrode means. 3,679,565, 7-25-72, Cl. 204-180.00r.
- Gilchrist, Allan E., to Ford Motor Company. Multi-component electrocoating compositions. 3,679,615, 7-25-72, Cl. 260-3.300.
- Gilchrist, Allan E., to SCM Corporation. Cathodic electrocoating process. 3,682,814, 8-8-72, Cl. 204-181.000.
- Gilchrist, Allan E., to Ford Motor Company. Process for electrodepositing paint. 3,699,030, 10-17-72, Cl. 204-181.000.
- Gilchrist, David W. Structural member. 3,645,487, 2-29-72, Cl. 248-354.
- Gilchrist, David W. Spherical game. 3,666,269, 5-30-72, Cl. 273-115.000.
- Gilchrist, David W. Aquatic vehicle. 3,675,259, 7-11-72, Cl. 9-310.00g.
- Gilchrist, Forbes D., to Motorola, Inc. Alternator regulator circuit. 3,702,433, 11-7-72, Cl. 322-28.000.
- Gilchrist, Ralph E.; and Brown, Morton E., to Tenneco Oil Company. Apparatus and method for computing drilling costs. 3,660,649, 5-2-72, Cl. 235-193.000.
- Gilchrist, Reginald Selby, to Klinger Manufacturing Company, Ltd., The. False twist texturizing method and apparatus. 3,656,288, 4-18-72, Cl. 57-34.
- Gildea, Colin T., to Pilkington Brothers, Limited. Falling film cooling of molten glass. 3,656,929, 4-18-72, Cl. 65-129.
- Gildner, Kenneth J., to Laboratory Data Control, Inc. Liquid flow meter. 3,693,436, 9-26-72, Cl. 73-194.00e.
- Gile, Richard H., to Howe Richardson Scale Company. Motion detector for weighing apparatus. 3,674,097, 7-4-72, Cl. 177-3.000.
- Giles, George R.; and Shuda, Donald G., to Sanders Associates, Inc. Data demodulator employing comparison. 3,656,064, 4-11-72, Cl. 329-104.
- Giles, Harold; and Noble, Marshall, to Wonder Curl Limited. Hair reforming devices. 3,680,565, 8-1-72, Cl. 132-9.000.
- Giles, James, to American Chain & Cable Company, Inc. Conveyor system. 3,684,073, 8-15-72, Cl. 193-36.000.
- Giles, Kenneth E.: *See—*
Sawyer, Elbert M.; Brown, Joseph M.; Munden, Curtis D.; and Giles, Kenneth E., 3,702,429.
- Giles, Ralph R.: *See—*
Weaver, Max A.; and Giles, Ralph R., 3,689,501.
- Giles, Walter W. Tallying devices. 3,677,221, 7-18-72, Cl. 116-135.000.

- Giles, Walter W.; and Madden, Norman W. Electric soldering irons. 3,691,342, 912-72, Cl. 219-233.000.
- Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Idayatov, Tofik Kudrat Ogly; Proshian, Nea Eachievna; Sarkisov, Rafael Tevosovich; and Stepanian, Ernst Arakelovich. Method of continuous feed of separate straps in process of blanking. 3,651,774, 3-8-72, Cl. 113-113.
- Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Kamalov, Gennady Nikolaevich; Sarkisov, Rafael Tevosovich; Stepanian, Ernst Arakelovich; and Shakhmaliev, Rustam Makhmud Ogly. Compound die for punching sheet members from circular blanks in punch presses with vertical disposition of blanking planes. 3,656,381, 4-18-72, Cl. 83-133.
- Gilewski, Heinz; and Wolf, Jürgen, to Volkswagenwerk Aktiengesellschaft. Internal combustion engine with an air inlet valve and a fuel injection valve. 3,704,694, 12-5-72, Cl. 123-32.0vn.
- Gilford Instrument Laboratories Inc.: See—
- Gilford, Saul R., 3,645,252.
- Gilford, Saul R., 3,647,386.
- Gilford, Saul R.; and Echeagaray, Ignacio P., 3,667,662.
- Gorgone, Robert L.; and Emary, Robert J., 3,646,313.
- Gilford, Saul R., to Gilford Instrument Laboratories Inc. Apparatus for sampling blood or the like fluid. 3,645,252, 2-29-72, Cl. 128-2.
- Gilford, Saul R., to Gilford Instrument Laboratories, Inc. Sample processing container. 3,647,386, 3-7-72, Cl. 23-230.
- Gilford, Saul R.; and Echeagaray, Ignacio P., to Gilford Instrument Laboratories, Inc. Capillary tube cutting and feeding apparatus. 3,667,662, 6-6-72, Cl. 225-96.5.
- Gilges, Fred: See—
- Metzger, Hans Siegfried; and Gilges, Fred, 3,659,451.
- Gilgien, Heinz; Koegel, Gerhard; and Harris, Melvin, to Ciba Limited. Disperse or monosulfonated acid dye printed nylon resisted with hydroxy diaryl sulfone-formaldehyde condensate. 3,663,157, 5-16-72, Cl. 8-65.
- Gilgoff, Herman. Remote control automobile theft prevention mechanism. 3,669,211, 6-13-72, Cl. 180-112.000.
- Gilgore, William H.: See—
- Shirey, Carey L.; and Gilgore, William H., 3,692,195.
- Gilham, Gay Maude: See—
- Gilham, George Henry; and Door, Wesley R., 3,665,797.
- Gilham, George Henry; deceased (by Gilham, Gay Maude; administratrix); and Door, Wesley R., to USM Corporation, mesne. Ring cutting tool. 3,665,797, 5-30-72, Cl. 83-411.000.
- Gilinger, Jean A. Decorative space-saving vanity. 3,684,344, 8-15-72, Cl. 312-223.000.
- Gilissen, Hermanus Petrus Johannes, to AMP Incorporated, mesne. Modular terminal block with mounting foot. 3,662,298, 5-9-72, Cl. 339-198.
- Giljarhus, Gunnar; and Vien, Hans, to A/S Raufoss Ammunisjonsfabrikker. Projectile with multiple effect. 3,677,181, 7-18-72, Cl. 102-52.000.
- Gilks, James Harris, to Imperial Chemical Industries Limited. Fuel gas for cutting operations. 3,706,542, 12-19-72, Cl. 48-197.0fm.
- Gill, Brian; and Moulding, Kenneth William. High frequency integrated circuit having circuit elements in separate and mutually spaced isolation regions. 3,688,132, 8-29-72, Cl. 307-303.000.
- Gill, Edward W.; and Vincent, Derek A., to Moore Business Forms Inc. Continuous stationery guide means. 3,672,483, 6-27-72, Cl. 197-133.000.
- Gill, George W. Apparatus and method for the prevention of ice in waterways. 3,660,983, 5-9-72, Cl. 61-1.
- Gill, Henry L., to United States of America, Navy. Telescoping sea floor soil sampler. 3,667,553, 6-6-72, Cl. 175-6.000.
- Gill, Homer R., to Goodyear Tire & Rubber Company, The. End post insulator. 3,666,175, 5-30-72, Cl. 238-152.000.
- Gill, James W., to Hercules Incorporated. Polysaccharide process. 3,632,570, 1-4-72, Cl. 260-209.
- Gill, Thomas R., to G S Equipment Company. Covers for plating barrels and the like. 3,653,700, 4-4-72, Cl. 292-49.
- Gill, William G., to Electrothermic Co., The. Electrical method and apparatus for the recovery of oil. 3,642,066, 2-15-72, Cl. 166-248.
- Gill, William L.: See—
- Dawn, Frederick S.; and Gill, William L., 3,665,750.
- Gillard, Paul O., to Australia, Commonwealth of, care of the Secretary. High density and high frequency digital recording using elongated bits to overcome the effects of tape dropouts. 3,701,134, 10-24-72, Cl. 340-174.10g.
- Gillberg, Eisa: See—
- Eriksson, Jan Christer; Lagergren, Hans Ragnar; Johansson, Anders Lennart; and Gillberg, Eisa, 3,634,123.
- Gillchrist, William C.; and Brewer, William A., to Lockheed Aircraft Corporation. Virus inactivation. 3,651,211, 3-21-72, Cl. 424-89.
- Gille, John P.: See—
- McGrew, Jay L.; and Gille, John P., 3,675,809.
- Gille, John P., to Martin-Marietta Corporation. Capillary insulation. 3,668,880, 6-13-72, Cl. 62-45.000.
- Gillemot, George W.: See—
- Anderson, Karl R., 3,699,284.
- Thompson, John T.; and Gillemot, George W., 3,639,952.
- Thompson, John T.; and Gillemot, George W., 3,694,566.
- Thompson, John T.; and Gillemot, George W., 3,699,494.
- Gillemot, George W.; and Thompson, John T. Service line branchout facility for communication cables. 3,654,584, 4-4-72, Cl. 339-14.
- Gillemot, George W.; and Thompson, John T. Protective enclosure for test instrument. 3,665,991, 5-30-72, Cl. 150-52.
- Gillemot, George W., to Plummer, Walter A. Method of protecting metal-clad cables from attack by stray currents. 3,669,777, 6-13-72, Cl. 156-54.000.
- Gillemot, George W.; and Thompson, John T. Universal sheath bond for communications cable. 3,676,836, 7-11-72, Cl. 339-97.00r.
- Gillen, Gerard J., Jr.: See—
- Mouton, William J., Jr., 3,651,653.
- Gillen, Richard S.: See—
- Craggs, Donald E.; and Gillen, Richard S., 3,704,784.
- Gillenwater, Donald Lee: See—
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- Giller, Arnold, to Chemische Werke Albert. Process for the preparation of etherified melamine resins. 3,647,755, 3-7-72, Cl. 260-67.6.
- Giller, Solomon Aronovich; Zhuk, Regina Abramovna; Lidak, Marger Jurievich; and Zidermane, Aina Avgustovna. N-(2-Furanyldiyl)-derivatives of 5-substituted uracils. 3,635,946, 1-18-72, Cl. 260-211.5.
- Giller, Solomon Aronovich; Sokolov, Georgy Petrovich; Kimenis, Agnis Adolfovich; and Klusha, Via Ekabovna. Diiodomethylate 1,2-bis(4'-pyrrolydinomethyl-1'-3'-dioxolanyl-2')ethane. 3,661,929, 5-9-72, Cl. 260-326.5.
- Gillern, Gerald T.: See—
- Ellis, Rollo G., 3,643,918.
- Gillern, Maurice F.: See—
- Freeman, Harlan G.; and Gillern, Maurice F., 3,704,269.
- Gillery, Frank H.; and Pressau, Jean P., to PPG Industries, Inc. Post heating of sputtered metal oxide films. 3,655,545, 4-11-72, Cl. 204-192.
- Gillery, Frank H., to PPG Industries, Inc. Process for forming electroconductive tin oxide films by pyrolyzation of alkyl and aryl tin fluorides. 3,677,814, 7-18-72, Cl. 117-211.000.
- Gilles, Jack C., to Goodrich, B. F., Company, The. Hydroxyphenylalkylenyl isocyanurates. 3,637,582, 1-25-72, Cl. 260-45.8.
- Gilles, Jack C., to Goodrich, B. F., Company, The. Pehnox isocyanurates used as stabilizers. 3,644,277, 2-22-72, Cl. 260-45.8.
- Gilles, Jack C., to Goodrich, B. F., Company, The. Process for the preparation of hydroxybenzyl esters of cyanuric acid. 3,669,961, 6-13-72, Cl. 260-248.0ns.
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- Gillespie, Bruce G.; and Ryer, Jack, to Esso Research and Engineering Company. Reducing fouling deposits in process equipment. 3,645,886, 2-29-72, Cl. 208-48.
- Gillespie, George Richard, to Engelhard Minerals & Chemicals Corporation. Process for ammonia oxidation. 3,660,024, 5-2-72, Cl. 23-162.000.
- Gillespie, Helen A. Basket and tray. 3,647,077, 3-7-72, Cl. 211-126.
- Gillespie, James Francis, to AMP Incorporated. Crimping dies for terminating foil conductor in a foil conductor termination and foil locator and holder therefor. 3,706,121, 12-19-72, Cl. 29-203.00h.
- Gillespie, Peter J.: See—
- Argent, Edwin John; and Gillespie, Peter J., 3,642,540.
- Gillespie, Robert A., to Stauffer Chemical Company. Control injection system for drycleaning apparatus in systems. 3,653,234, 4-4-72, Cl. 68-12.
- Gillespie, Robert F.: See—
- Fairbanks, Theodore H.; Gillespie, Robert F.; and Nelson, Dorsey C., 3,664,780.
- Gillespie, Robert M.; and Rhys, Hugh R., to Sortex Company of North America, Inc. Refuse separating and sorting method and apparatus. 3,650,396, 3-21-72, Cl. 209-3.
- Gillespie, William Stanley, to American Can Company. Brim curling apparatus. 3,632,274, 1-4-72, Cl. 18-19.
- Gillett, Colin, to General Electric Company. Type (S) fuse automaton. 3,706,063, 12-12-72, Cl. 337-262.000.
- Gillett, Jimmie Douglas, to Electric Machinery Mfg. Company. Power supply circuit to simultaneously vary frequency and amplitude in a motor speed control. 3,704,403, 11-28-72, Cl. 318-227.000.
- Gilllette Company, The: See—
- Adams, Edward J., 3,662,519.
- Adams, Edward J., 3,694,891.
- Brown, Norman J., 3,643,330.
- Corbett, John Frank; and Amery, Geoffrey Wilfred, 3,641,154.
- Cox, Michael C. L., 3,680,543.
- Davidson, Henry, 3,639,070.
- Dorion, Francis W., Jr.; and Poisson, Norman D., 3,633,089.
- Dorion, Francis W., Jr.; Nissen, Warren I.; and Perry, Roger L., 3,667,121.
- Douglass, Paul W.; and Koehler, Joseph E., 3,648,368.
- Felger, Carl B., 3,671,626.

- Fischbein, Irwin W.; Galligan, John D.; Schwartz, Anthony M.; and Youngquist, William S., 3,638,308.
- Fischbein, Irwin W.; Flaherty, Francis E.; McLaughlin, Edward P.; and Willett, Fred T., 3,652,342.
- Fischbein, Irwin W.; Alexander, Ben H.; and Sastri, Aiyaswami S., 3,682,795.
- Fish, Frank H.; and McLaughlin, Edward P., 3,652,443.
- Fish, Frank H.; Fischbein, Irwin W.; and Slater, Mandel E., 3,658,742.
- Grefe, Philipp G.; Lewiecki, Edward M.; and Shnitzler, Meyer J., 3,634,122.
- Hall, Kathleen E.; and Wolfram, Leszek J., 3,632,295.
- Hsiung, Du Yung; and Wolfram, Leszek January, 3,644,084.
- Johnston, Richard, 3,635,927.
- Kauder, Richard M., 3,648,905.
- King, Phillip W.; Van Dyck, Kenneth A.; and Wyatt, James B., 3,653,123.
- Laiderman, Donald David, 3,697,644.
- Levy, Edward F.; Karlson, Roy H.; and Hornig, Ursula E., 3,638,327.
- Maguire, Richard J., 3,634,920.
- Nigro, Louis V., 3,647,122.
- Nigro, Louis V., 3,661,300.
- Nigro, Louis V., 3,680,605.
- Nigro, Louis V., 3,698,604.
- Nigro, Louis V., 3,703,994.
- Nissen, Warren I., 3,657,810.
- Nissen, Warren I.; and Perry, Roger L., 3,657,811.
- Pearson, Harold E., 3,676,902.
- Perry, Roger L., 3,675,322.
- Perry, Roger L., 3,703,764.
- Reed, Meuriel F., 3,666,373.
- Seregely, Daniel W., 3,656,857.
- Stephenson, Charles F.; Van Dyck, Kenneth A.; and Wyatt, James B., 3,650,027.
- Tafapolsky, Bernard, 3,696,013.
- Webster, Milo E., 3,633,798.
- Webster, Milo E., 3,666,148.
- Wilson, Warren Thomas, 3,642,401.
- Woolley, Donald D.; and Goodenow, Elden L., 3,666,535.
- Gillette Company, The, mesne: See—
- Futterer, Bodo, 3,695,927.
- Gillette, Erwin H. Silage distributor. 3,698,576, 10-17-72, Cl. 214-17.00c.
- Gillette, Thomas W.: See—
- Patton, John T.; and Gillette, Thomas W., 3,684,689.
- Gillham, Helen Currier; Sherr, Allan Ellis; and Klein, Harvey Gerald, to American Cyanamid Company. Flame-retardant agents for thermoplastic products. 3,654,342, 4-4-72, Cl. 260-465.8.
- Gillham, John A.: See—
- Howes, Edward P.; and Gillham, John A., 3,638,376.
- Gillhaus, Horst: See—
- Domres, Hans Georg; Simons, Emil; and Gillhaus, Horst, 3,685,573.
- Gillhaus, Horst; and Simons, Emil, to Aktiengesellschaft Brown, Boveri & Cie. Heated casting ladle support arrangement. 3,688,951, 9-5-72, Cl. 222-166.000.
- Gilliam, Joe L., to Melvin, Mary. Line clamp. 3,645,032, 2-29-72, Cl. 43-44.9.
- Gilliam, Joe L., to Melvin, Mary E. Salt water sinker. 3,701,212, 10-31-72, Cl. 43-44.870.
- Gilliam, Kenneth D.; and Kehe, Alfred W., to Continental Can Company, Inc. Polyethylene coated metal substrate and process of preparing same. 3,650,809, 3-21-72, Cl. 117-75.
- Gilliam, Paul V.: See—
- Davis, Billy E.; and Gilliam, Paul V., 3,643,489.
- Gillich, Thomas N., to Azoplate Corporation. Light-sensitive diazo condensate containing reproduction material. 3,679,419, 7-25-72, Cl. 96-91.00r.
- Gillick, Jack W., to Park-Ohio Industries, Inc. Apparatus and method of inductively heating and quench hardening an elongated workpiece. 3,674,247, 7-4-72, Cl. 266-4.00e.
- Gillies, George Marshall; and Littlechild, James, to United Kingdom Atomic Energy Authority. Rotary kilns. 3,698,697, 10-17-72, Cl. 263-32.00r.
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Bertin, Jean Henri; Le Nabour, Marcel Pierre; and Giraud, Francois Louis, 3,648,620.
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Morand, Gilles; and Giraudon, Marc, 3,704,717.
- Girault, Denis: See—
Furstenberger, Jean; Lebrun, Guy; and Girault, Denis, 3,670,945.
- Girault, Pierre: See—
Allais, Andre; and Girault, Pierre, 3,632,818.
Assouline, George; Conjeaud, Pierre; Girault, Pierre; and Leiba, Eugene, 3,671,963.
Assouline, George; Conjeaud, Pierre; Girault, Pierre; and Leiba, Eugene, 3,705,955.
Bertin, Daniel; and Girault, Pierre, 3,646,058.
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Bret, Georges; and Gires, Francois, 3,662,282.
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Blakey, Roy, 3,672,729.
Brown, Peter William, 3,682,277.
Clay, Benjamin Andrew; and Farr, Glyn Phillip Reginald, 3,653,473.
Farr, Glyn Phillip Reginald, 3,633,712.
Farr, Glyn Phillip Reginald, 3,680,664.
Fowler, Richard T., 3,682,280.
Gee, Davis William; and Carey, Michael Albert, 3,682,049.
Green, Martin, 3,672,732.
Habgood, Gordon A., 3,651,898.
Harrison, Anthony William, 3,661,235.
Hiscox, Leonard R., 3,664,712.
Hiscox, Leonard Remy, 3,652,134.
Hodges, Peter Kinson, 3,678,232.
Hoenick, Hermann H., 3,704,652.
Ingram, Brian, 3,640,067.
Ingram, Brian, 3,678,688.
Ingram, Brian; Spence, Douglas Roy; and Cochrane, Robin Adam, 3,690,738.
Ingram, Brian; Harries, David Anthony; and Phoenix, Lancelot, 3,694,038.
Ingram, Brian; and Harries, David Anthony, 3,703,079.
Ingram, Brian; Harries, David Anthony; and Phoenix, Lancelot, 3,703,319.
Ingram, Brian; Harries, David A.; and Phoenix, Lancelot, 3,704,044.
Margetta, Hugh Grenville; and Habgood, Gordon Alfred, 3,661,233.
Newstead, Charles, 3,656,590.
Newstead, Charles; and Moss, Norman S., 3,662,865.
Newstead, Charles; Cullen, John Lesley; and Zajko, Michal, 3,677,374.
Newstead, Charles, 3,682,281.
Quiney, Kenneth Maurice, 3,666,058.
Wilson, Alexander J.; and Dawson, Stuart B., 3,659,421.
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De Demandolx Dedons, Pierre; Giroud, Gerard; and Delaunay, Daniel, 3,704,796.
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Fabre, Pierre; Giroud-Garampon Robert; Gondrand, Michel; and Raymond, Fernand, 3,695,909.
- Gisai Kabushiki Kaisha: See—
Tanaka, Satoru; and Hasimoto, Kazunori, 3,696,110.
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- Gish, Irving. Razor blade holder. 3,685,152, 8-22-72, Cl. 30-296.000.
- Gisler, Hans Rudolf: See—
Hartmann, Fortunat; and Gisler, Hans Rudolf, 3,644,093.
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Messina, Joseph F.; and Gisser, Henry, 3,639,241.
Messina, Joseph F.; and Gisser, Henry, 3,640,859.
Messina, Joseph F.; and Gisser, Henry, 3,664,956.
Messina, Joseph F.; and Gisser, Henry, 3,664,958.
Messina, Joseph F.; and Gisser, Henry, 3,689,411.
Messina, Joseph F.; and Gisser, Henry, 3,691,074.
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- Gitchel, Wayne B.: See—
Pradt, Louis A.; Gitchel, Wayne B.; and Hoffman, Clarence A., 3,654,070.
- Gittesen, Gunnar, to Norsk Hydro A/S. Magnesium cast alloys with little tendency to hot-crack. 3,653,880, 4-4-72, Cl. 75-168.
- Gitlin, Edward E.: See—
Hall, Maurice B., 3,670,428.
- Gitlitz, Melvin Hyman, to M & T Chemicals Inc. Stannous glycoloxides. 3,706,774, 12-19-72, Cl. 260-429.700.
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Jackson, Richard H.; and Schulz, George H., 3,687,464.
Lojkutz, Bruno V.; Warner, Dale J.; and Schulz, George H., 3,647,227.
- Gittelman, Donald Henry: See—
Christensen, Gary Lee; and Gittelman, Donald Henry, 3,705,055.
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- Gitzendanner, Louis G.: See—
Tiemann, Jerome J.; and Gitzendanner, Louis G., 3,673,353.
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Heilmayr, Peter F.; Kimbrell, Sol B.; and Giuffre, Joseph C., 3,674,388.
- Giufreda, Anthony J.: See—
Kirkham, Thomas A.; Arnold, John W.; and Giufreda, Anthony J., 3,669,857.
- Giuzza, Pietro, to O.M.C.S.A. Officine Meccaniche Cigardi S.p.A. Disconnect arrangement for multi-unit printing press. 3,703,863, 11-28-72, Cl. 101-183.000.
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- Giuseponi, Ernest D.: See—
Golick, Alexander J.; Giuseponi, Ernest D.; and Randolph, Arthur J., 3,687,178.
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de Varda, Giuseppe; and de Pava, Alberto Vajina, 3,647,673.
- Giussani, Giorgio: See—
Fino, Michele; and Giussani, Giorgio, 3,648,743.
- Giuzzi, Alberto: See—
Mariani, Brunello; Giuzzi, Alberto; and Tisselli, Eugenio, 3,657,216.
- Givaudan Corporation: See—
Bertele, Erhard; and Schudel, Peter, 3,699,169.
Dahill, Robert T., Jr., 3,637,533.
Kappeler, Heinrich; and Wild, Jost, 3,700,717.

- Kitchens, Garry C.; Hochstetler, Alan R.; and Kaiser, Kent, 3,678,119.
- Kitchens, Garry C.; Hochstetler, Alan R.; and Kaiser, Kent, 3,681,470.
- Lamparsky, Dietmar; and Schudel, Peter, 3,660,489.
- Lamparsky, Hans Dietmar; and Marbet, Roman, 3,670,026.
- Nikawitz, Edward J., 3,651,128.
- Wood, Thomas F.; and Goodwin, George H., 3,644,540.
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Bose, Dieter; and Pfoertner, Karlheinz, 3,657,278.
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Marshall, David J.; and Givner, Morris L., 3,705,179.
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Duclaux, Daniel; Givry, Jean-Pierre; and Pointud, Jacky, 3,679,555.
- Giwocky, Harry L., to Controls Company of America. Metering valve arrangement for oil control. 3,654,954, 4-11-72, Cl. 137-400.
- Gizeh-Werk G.m.b.H.: See—
Saraber, Petrus Gerardus, 3,699,975.
- Gjerding, Bradley K.: See—
Gannett, James R.; Annin, Gordon D.; and Gjerding, Bradley K., 3,668,622.
- G.K.N. Birfield Transmissions Limited: See—
Fisher, Leslie George, 3,646,778.
Macielinski, Jerzy Witold, 3,664,152.
Pagdin, Brian Colin; and Forster, Brian Michael, 3,651,690.
Shirley, Brian William; and Hutchinson, Philip, 3,678,706.
Smith, Henry Thomas; and Millward, Thomas Hughes, 3,656,318.
Smith, Henry Thomas; and Millward, Thomas Hughes, 3,688,521.
Smith, Henry Thomas; and Millward, Thomas Hughes, 3,696,638.
- G.K.N. Engineering Limited: See—
Sharman, John Charles, 3,680,998.
- G.K.N. Group Services Limited: See—
Carver, Bryan George; and Crooks, Ronald, 3,664,411.
Carver, Bryan George; and Crooks, Ronald, 3,685,572.
James, Barry A. J.; and Brown, Gordon T., 3,690,868.
- GKN Sankey Limited: See—
Beech, Frank, 3,648,742.
Bowring, David John, 3,703,229.
Dudley, John T., 3,650,557.
- G.K.N. Screws & Fasteners Limited: See—
Turnbull, John Hilton, 3,673,662.
- GKN Windsor Limited: See—
Boyne, Ivor Fenwick, 3,690,623.
- Glabe, Elmer F., to Milk Research, Inc. Macaroni product containing nonfat milk solids. 3,663,232, 5-16-72, Cl. 99-85.000.
- Glabisch, Dietrich: See—
Grabhofer, Herbert; Himmelmann, Wolfgang; and Glabisch, Dietrich, 3,635,715.
Merckbach, Heinrich; Glabisch, Dietrich; and Bartl, Herbert, 3,651,001.
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- Glachet, Charles: See—
Fedi, Letto; and Glachet, Charles, 3,644,737.
- Glacier Metal Company Limited, The: See—
Cacciabue, Antonio; and Beazley, Rodney Thomas, 3,666,170.
- Gladding, Edward K.; and Nyce, Jack L., to Du Pont de Nemours, E. I., and Company. Elastomeric vinylidene fluoride polymers with 55-95 percent non-ionic end groups. 3,707,529, 12-26-72, Cl. 260-80.770.
- Gladding, Edward Karcher: See—
Anderson, Daniel Gustav; Gladding, Edward Karcher; and Sullivan, Raymond, 3,641,104.
- Glader, Hermann: See—
Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; Glader, Hermann; and Dyrtschka, Helmut, 3,650,986.
- Glader, James. Extension connector for electrical outlet box. 3,689,864, 9-5-72, Cl. 339-14.00r.
- Gladky, Dmitry Fedorovich: See—
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Podola, Nikolai Vasilievich; Bondarenko, Oleg Petrovich; Leibenzon, Semen Abramovich; Kaganovsky, Gary Petrovich; Smolyakov, Vadim Filimonovich; Eltsov, Konstantin Sergeevich; Gabuev, Georgy Kharitonovich; and Gladky, Dmitry Fedorovich, 3,693,700.
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- Gladrow, Dean E.; and Wilkes, Donald F., to Rolamite Incorporated. Rotary motion transmitting apparatus. 3,691,871, 9-19-72, Cl. 74-798.000.
- Gladrow, Elroy M.: See—
Kimberlin, Charles N., Jr.; and Gladrow, Elroy M., 3,686,121.
- Gladu, Norman D., to Intercontinental Environmental Controls Ltd. Smoke clarifier. 3,660,045, 5-2-72, Cl. 23-277.
- Gladwin, Floyd R. Trash compactor cabinet. 3,680,475, 8-1-72, Cl. 100-100.000.
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Jankowski, Alfnst; Glaesmann, Otto-Ernst; and Haake, Gerhard, 3,698,196.
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- Glaire, Rene, to U.S. Philips Corporation. Semiconductor device and circuit arrangement comprising the device. 3,704,399, 11-28-72, Cl. 317-235.00r.
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Firestone, Raymond A.; and Glamkowski, Edward J., 3,632,609.
- Glamkowski, Edward J.; and Slettinger, Meyer. Method for the preparation of (cis-1,2-epoxypropyl)phosphonic acid and derivatives thereof (cis-1,2-epoxypropyl)phosphonic. 3,637,766, 1-25-72, Cl. 260-348.
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Eisen, Howard; and Feighan, Joseph A., 3,684,576.
- Glamour Pools Company: See—
Lankheet, Jay A., 3,654,639.
Lankheet, Jay A., 3,662,410.
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- Glance, Bernard S., to Varian Associates, mesne. Shielded meander line slow wave circuit and tubes using same. 3,702,413, 11-7-72, Cl. 315-3.500.
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- Glander, Fritz: See—
Matthieu, Paul; Leuchs, Ottmar; Glander, Fritz; Kuypers, Hubert; and Pelz, Diethart, 3,698,440.
- Glandorf, Kaete; and Scheurer, Guenter, to Benckiser-Knapsack GmbH. Spreadable food composition and process of making same. 3,694,219, 9-26-72, Cl. 99-1.000.
- Glanemann, Rudolf, to Eckert, Paul. Negative pressure lift device. 3,704,038, 11-28-72, Cl. 294-65.000.
- Glang, Reinhard; Holmwood, Richard A.; Maissel, Leon I.; and Vergnolle, Jean, to International Business Machines Corporation. Chromium-silicon monoxide film resistors. 3,652,750, 3-28-72, Cl. 264-67.
- Glangeaud, Yves: See—
Gaffard, Jean Paul; Glangeaud, Yves; and Suppo, Jose, 3,632,868.
- Glantschnig, Fritz; and Tiesnes, Manfred, to Patentverwertungs- & Elektro-Holding AG. System of digital measurement of the position of a first member slidably mounted upon a second rotating member. 3,657,717, 4-18-72, Cl. 340-347.
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- Glanz, Elliot S.: *See*—
Sheidlower, Stanley S.; and Glanz, Elliot S., 3,653,357.
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- Glanzstoff AG: *See*—
Dismon, Peter; and Jansen, Heinz, 3,701,244.
Erbacher, Alfons, 3,680,383.
Gemeinhardt, Hermann, 3,651,630.
Gerlach, Klaus; Grimm, Wolfgang; and Linhart, Helmut, 3,644,298.
Heinen, Peter; Guthmann, Hans; and Gossens, Peter, 3,641,755.
Magerlein, Helmut; Meyer, Gerhard; and Rupp, Hans-Dieter, 3,662,002.
Magerlein, Helmut; Rupp, Hans-Dieter; and Meyer, Gerhard, 3,663,562.
Magerlein, Helmut; Meyer, Gerhard; and Rupp, Hans-Dieter, 3,699,161.
Meyer, Gerhard; Grotjahn, Heinz; Magerlein, Helmut; Rupp, Hans-Dieter; Michael, Erlenbach; and Schopf, Albert, 3,661,502.
Meyer, Gerhard; Magerlein, Helmut; and Rupp, Hans-Dieter, 3,673,246.
Meyer, Gerhard; Magerlein, Helmut; and Rupp, Hans-Dieter, 3,686,328.
Riess, Werner; Schaefer, Helmut; and Bayer, Bernd, 3,676,180.
Rupp, Hans-Dieter; and Magerlein, Helmut, 3,647,811.
Schopf, Albert; Wallrabenstein, Michael; Rupp, Hans-Dieter; Magerlein, Helmut; Grotjahn, Heinz; and Meyer, Gerhard, 3,661,836.
Schulze, Helmut; and Pfistermeister, Martin, 3,635,907.
Schulze, Kurt-Jürgen, 3,645,856.
Schulze, Kurt-Jürgen; and Jung, Joachim, 3,669,761.
Schulze, Ulrich; and Meyer, Gerhard, 3,647,878.
Seibert, Gerhard; and Gerlach, Klaus, 3,672,943.
Siggel, Erhard; Kersten, Hilde; and Meyer, Gerhard, 3,682,929.
Wegerhoff, Arno; Schmitz, Franz-Josef; and Macura, Carl, 3,634,117.
- Glar-Ban Corporation: *See*—
Perhach, John M., 3,662,784.
- Glascok, James T.; and Schlemmer, Glen R. Collapsible garment hanger. 3,645,426, 2-29-72, Cl. 223-989.
- Glaser, Arthur B., to Bell Telephone Laboratories, Incorporated. N-path filter using sampled data filter as time-invariant part. 3,632,888, 1-4-72, Cl. 179-15.
- Glaser, Charles J., Jr.: *See*—
Kane, Robert R.; and Glaser, Charles J., Jr., 3,695,576.
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- Glaser, Egon: *See*—
Mayer, Georg; and Glaser, Egon, 3,655,254.
- Glaser, Fritz-Jorg: *See*—
Riedhammer, Joseph; and Glaser, Fritz-Jorg, 3,679,327.
- Glaser, Hermann: *See*—
Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; Glaser, Hermann; and Dyrtschka, Helmut, 3,637,819.
Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; and Glaser, Hermann, 3,655,747.
Vogt, Wilhelm; Sennewald, Kurt; and Glaser, Hermann, 3,674,839.
- Glaser, John H., to General Electric Company. Light weight transparent penetration-resistant structure. 3,634,177, 1-11-72, Cl. 161-2.
- Glaser, Josef: *See*—
Binder, Wolfgang; Kalkreuth, Hasso; Glaser, Josef; and Fahrenkrug, Gunter, 3,701,470.
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Bertsch, Richard; Fussner, Paul; Glaser, Manfred; and Nusser, Hermann, 3,639,085.
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Mihojevich, Steven; Zeffans, Arthur S.; Ostensen, Ralph G.; Berggren, Albin F., Jr.; and Glaser, Ronald A., 3,698,706.
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Burckhardt, Christoph; and Glaser, Walter, 3,646,639.
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Crenshaw, Paul L.; Flippen, Floyd F.; and Glasgow, James P., 3,634,237.
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Glasgow, Horack K., 3,636,951.
- Glasgow, Sandra: *See*—
Glasgow, Horack K., 3,636,951.
- Glaski, Frederick A.: *See*—
Holzi, Robert A.; Glaski, Frederick A.; and Humphrey, James R., 3,637,374.
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Niwa, Shohei; Oki, Kazuo; Hayashi, Masaaki; and Morimoto, Yuukichi, 3,689,679.
- Glass, Alastair Malcolm: *See*—
Abrams, Richard Lee; and Glass, Alastair Malcolm, 3,654,466.
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Moran, James M.; and Saul, Robert J., 3,634,660.
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Augustsson, Bengt O.; and Southwick, Russell D., 3,688,737.
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Hollander, Edward F., Jr., 3,664,813.
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Shanok, Victor; and Shanok, Jesse P., 3,635,787.
Shanok, Victor; and Shanok, Jesse P., 3,675,355.
Shanok, Victor; and Shanok, Jesse P., 3,687,794.
- Glass, Marvin, & Associates: *See*—
Barlow, Gordon A.; Meyer, Burton C.; and Glass, Marvin I., 3,638,319.
Barlow, Gordon A.; and Glass, Marvin I., 3,647,212.
Barlow, Gordon A.; and Glass, Marvin I., 3,648,385.
Barlow, Gordon A., 3,649,019.
Barlow, Gordon A.; and Breslow, Jeffrey D., 3,653,666.
Barlow, Gordon A., 3,685,829.
Breslow, Jeffrey D.; and Glass, Marvin I., 3,635,476.
Breslow, Jeffrey D.; and Glass, Marvin I., 3,637,213.
Breslow, Jeffrey D., 3,638,945.
Breslow, Jeffrey D., 3,643,951.
Breslow, Jeffrey D., 3,643,955.
Breslow, Jeffrey D., 3,647,216.

- Breslow, Jeffrey D., 3,649,009.
Breslow, Jeffrey D., 3,649,026.
Breslow, Jeffrey D., 3,656,746.
Breslow, Jeffrey D., 3,677,545.
Breslow, Jeffrey D., 3,679,210.
Breslow, Jeffrey D., 3,687,451.
Breslow, Jeffrey D.; Glass, Marvin I.; Meyer, Burton C.; Jaworski, Eugene; and Barlow, Gordon A., 3,693,290.
Breslow, Jeffrey D., 3,698,714.
Breslow, Jeffrey D., 3,705,727.
Glass, Marvin I.; and Schoenfield, Palmer J., 3,634,678.
Glass, Marvin I.; and Breslow, Jeffrey D., 3,637,214.
Glass, Marvin I.; Breslow, Jeffrey D.; and Licitis, Gunars, 3,656,751.
Glass, Marvin I.; Breslow, Jeffrey D.; and Jaworski, Eugene, 3,664,670.
Glass, Marvin I.; Morrison, Howard J.; and Allen, Robert K., 3,680,254.
Glass, Marvin I.; and Kripak, Leonid, 3,690,021.
Glass, Marvin I.; Katzman, Allison W.; and Meyer, Burton C., 3,691,680.
Glass, Marvin I.; and Morrison, Howard J., 3,694,955.
Glass, Marvin I.; and Terzian, Rouben T., 3,699,710.
Katzman, Allison; Nix, Donald F.; and Glass, Marvin I., 3,648,652.
Katzman, Allison, 3,649,024.
Licitis, Gunars, 3,697,086.
McFarland, Norman T., 3,695,993.
Meyer, Bruton S.; and Glass, Marvin I., 3,643,954.
Meyer, Burton C.; and McKay, Robert S., 3,671,040.
Meyer, Burton C., 3,706,455.
Morrison, Howard J., 3,638,354.
Morrison, Howard J.; and Glass, Marvin I., 3,645,038.
Morrison, Howard J.; and Glass, Marvin I., 3,648,373.
Morrison, Howard J., 3,648,454.
Morrison, Howard J., 3,685,202.
Race, Andras, 3,677,541.
Terzian, Rouben T.; and Glass, Marvin I., 3,648,408.
Glass, Marvin, & Associates, mesne: *See*—
Hayes, Geoffrey, 3,649,021.
- Glass, Marvin I.: *See*—
Barlow, Gordon A.; Meyer, Burton C.; and Glass, Marvin I., 3,638,319.
Barlow, Gordon A.; and Glass, Marvin I., 3,647,212.
Barlow, Gordon A.; and Glass, Marvin I., 3,648,385.
Breslow, Jeffrey D.; and Glass, Marvin I., 3,635,476.
Breslow, Jeffrey D.; and Glass, Marvin I., 3,637,213.
Breslow, Jeffrey D.; Glass, Marvin I.; Meyer, Burton C.; Jaworski, Eugene; and Barlow, Gordon A., 3,693,290.
Katzman, Allison; Nix, Donald F.; and Glass, Marvin I., 3,648,652.
Meyer, Bruton S.; and Glass, Marvin I., 3,643,954.
Morrison, Howard J.; and Glass, Marvin I., 3,645,038.
Morrison, Howard J.; and Glass, Marvin I., 3,648,373.
Terzian, Rouben T.; and Glass, Marvin I., 3,648,408.
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- Glass, Max E.: *See*—
Urton, John T.; Glass, Max E.; Donahue, Stephen F.; and Carlson, Arthur, Jr., 3,639,577.
- Glass, Neel W., to Les-Kare, Inc. Adjustable boot type composition horseshoe. 3,703,209, 11-21-72, Cl. 168-18.000.
- Glass, Robert A.: *See*—
Givens, Richard C.; and Glass, Robert A., 3,657,722.
- Glass, Robert I.; Phillips, William; and House, William R., to Cesco Mfg. Corporation. Open end ratchet wrench. 3,695,125, 10-3-72, Cl. 81-179.000.
- Glass, Robert Taylor. Automatic pick up and enrobing apparatus for stick type novelties. 3,648,625, 3-14-72, Cl. 107-8.
- Glass, Waldemar: *See*—
Kunke, Arthur; Reinhardt, Dieter; and Glass, Waldemar, 3,675,023.
Glass, William B., to Westinghouse Brake and Signal Company Limited. Semi-conductor devices and the manufacture thereof. 3,656,228, 4-18-72, Cl. 29-578.
Glass, William Brian, to Westinghouse Brake and Signal Company Limited. Method of manufacturing radiation-sensitive semiconductor devices. 3,651,564, 3-28-72, Cl. 29-574.
Glassberg, Bernard. Articulated door protector. 3,704,037, 11-28-72, Cl. 293-1.000.
Glassburner, Thomas M., Jr. Training aid for sprinters. 3,697,065, 10-10-72, Cl. 272-59.00r.
- Glaser, Alfredo: *See*—
Arcamone, Federico; Franceschi, Giovanni; Glaser, Alfredo; and Dorigotti, Luciano, 3,646,046.
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- Glaser, George; and Cseri, Joseph, to General Foods Corporation. Coconut products and processes. 3,655,409, 4-11-72, Cl. 99-125.
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- Glaser, Herman, to Nuclear Associates, Inc. Holder for radioactive material. 3,673,411, 6-27-72, Cl. 250-108.00r.
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- Glaser, James R.; and Tomsa, Stanley J. Serrasoid phase modulator. 3,693,113, 9-19-72, Cl. 332-9.00r.
- Glaser, Jay L. Wheel chair lift. 3,661,228, 5-9-72, Cl. 187-25.
- Glaser, Leon. Stringed musical instrument. 3,699,836, 10-24-72, Cl. 84-291.000.
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- Glassman, Aaron, to Pennsylvania Sewing Research Corporation. Fabric article everting device having latching means with remotely-actuated release. 3,695,490, 10-3-72, Cl. 223-40.000.
- Glassman, Irvin: *See*—
Kuehl, Donald K.; Blackman, Arthur W.; and Glassman, Irvin, 3,704,184.
- Glassman, Jacob A. Method of forming catamenial napkins. 3,696,187, 10-3-72, Cl. 264-294.000.
- Glassman, Jacob A. Packages for small articles. 3,698,549, 10-17-72, Cl. 206-63.20r.
- Glasson, Douglas Haigh, to Aquatron Corporation (Australia) Pty. Limited. Tray for liquid sterilisers. 3,694,651, 9-26-72, Cl. 250-43.000.
- Glasson, Jerry M., to Teletype Corporation. Variable stop generation for transmitter. 3,632,875, 1-4-72, Cl. 178-53.1.
- Glasson, Jerry M., to Teletype Corporation. Bidirectional counter. 3,651,415, 3-21-72, Cl. 328-44.
- Glastra, Hendrik, to N.V. Maatschappij voor Industriële Research en Ontwikkeling. Device for cutting plate material. 3,662,637, 5-16-72, Cl. 83-201.15.
- Glastron Boat Company: *See*—
Wilhoit, Jerry W., 3,654,648.
- Glastrusions, Inc.: *See*—
Goldworthy, William Brandt, 3,674,601.
Goldworthy, William Brandt, 3,684,622.
- Glattfelder, P. H., Company: *See*—
Olson, Robert A., 3,664,912.
- Glathe, Wolfgang, to Schlumberger Overseas Messgeratebau und Vertrieb GmbH. Amplifier stage circuit for a logarithmic amplifier. 3,678,294, 7-18-72, Cl. 307-230.000.
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- Glatt, Otto G. Traveling cylinder printer with selective indicia on endless bonds. 3,696,740, 10-10-72, Cl. 101-111.000.
- Glattfelder, Henry G.: *See*—
Audeh, Azmi S.; Deodhar, Anil N.; and Glattfelder, Henry G., 3,648,134.
- Glatz, Albert. Ball joint. 3,675,953, 7-11-72, Cl. 287-12.000.
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- Glaus, Heinrich, to Styner & Bienz AG. Electric scissors. 3,631,596, 1-4-72, Cl. 30-228.
- Glaue, Gene N.: *See*—
Glaue, Loy E.; and Glaue, Gene N., 3,706,164.
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- Glav, Ola, to Munters, Carl Georg. Process of drying air and apparatus intended therefor. 3,683,591, 8-15-72, Cl. 55-34.000.
- Glave, Horst Dieter, to Olympia Werke AG. Typehead setting device. 3,703,230, 11-21-72, Cl. 197-52.000.
- Glave, Trevor J.: *See*—
Mullens, Thomas R.; and Glave, Trevor J., 3,694,810.

- Glaverbel: *See*—
 Brichard, Edgard, 3,645,713.
 Brichard, Edgard, 3,652,250.
 Brichard, Edgard, 3,652,251.
 Brichard, Edgard, 3,657,399.
 Brichard, Edgard; and Declaye, Joseph, 3,669,640.
 Castiaux, Marcel, 3,645,389.
 Javaux, Gustave, 3,652,252.
 Javaux, Gustave, 3,655,356.
- Glaverbel S.A.: *See*—
 Brichard, Edgard; Jaupain, Maurice; Plumet, Emile; and Deschepper, Pierre, 3,684,560.
 Plumet, Emile; Duthoit, Jean; Toussaint, Francois; and Van Laethem, Robert, 3,632,321.
 Plumet, Emile; Toussaint, Francois; and Schottey, Jean, 3,639,198.
 Plumet, Emile; and Leger, Lucien F., 3,645,710.
 Plumet, Emile, 3,652,244.
 Plumet, Emile; and Lelong, Jose, 3,673,006.
 Plumet, Emile; and Toussaint, Francois, 3,674,454.
 Plumet, Emile; and Van Laethem, Robert, 3,676,097.
 Plumet, Emile, 3,677,729.
 Plumet, Emile; Bohain, Pierre; and Servais, Albert, 3,683,848.
 Plumet, Emile, 3,700,496.
 Raes, Andre, 3,695,459.
 Van Laethem, Robert, 3,650,719.
- Glavis, Frank J.: *See*—
 McNamee, Raymond W., Jr.; Glavis, Frank J.; and Schiavone, Anthony E., 3,681,069.
- Glawleschhoff, Basilius; Krieg, Gebhard; Weidmann, Wolfgang; and Weiss, Adolf, to Messerschmitt-Bolkow-Blohm GmbH. Intervalometer. 3,660,691, 5-2-72, Cl. 307-293.
- Glaxo Laboratories Limited: *See*—
 Arnold, Benjamin Harry; Fildes, Robert Anthony; and Gilbert, David Arthur, 3,658,649.
 Attenburrow, John, 3,634,417.
 Clark, John Colin; Cowley, Brian Richard; Gregory, Gordon Ian; Kennedy, James; and Long, Alan Gibson, 3,647,788.
 Clark, John Colin; Kennedy, James; and Long, Alan Gibson, 3,668,203.
 Eardley, Stephen; Kennedy, James; and Long, Alan Gibson, 3,658,799.
 Elks, Joseph; Philipps, Gordon Hanley; and Tulley, Alan, 3,665,021.
 Jones, Ewart Ray Herbert; Meakins, George Denis; and Clegg, Andres Samuel, 3,692,629.
 Kennedy, James; Long, Alan Gibson; and Underwood, William G. E., 3,665,003.
 Mc Corquodale, Hugh; and Siddons, Phillip Thomas, 3,689,483.
 Oughton, John Francis, 3,692,781.
 Philipps, Gordon Hanley; and Tulley, Alan, 3,636,011.
 Philipps, Gordon Hanley, 3,644,439.
 Schofield, Harry, 3,634,416.
 Siddons, Phillip Thomas, 3,676,437.
 Stephenson, Leslie; and Hill, Margaret Elizabeth, 3,660,437.
- Glaz, Michael, to Societe Nouvelle Radial. Method for producing a heat exchanger. 3,683,478, 8-15-72, Cl. 29-157.30b.
- Glaze, Jack G.: *See*—
 Cleveland, Richard E.; Fisher, Jack M.; Glaze, Jack G.; and Jeale, William G., 3,650,349.
- Glaze, John W., Jr.; and Propst, James P., to Autoboard Corporation. Method of shrinking and/or dyeing knit garments. 3,686,726, 8-29-72, Cl. 28-74.00h.
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- Glaze, Stanley George: *See*—
 Smith, Charles Philip; and Glaze, Stanley George, 3,638,672.
- Glaze, Stanley George, to Hobson, H. M., Limited. Pressure ratio sensing. 3,675,225, 7-4-72, Cl. 340-196.000.
- Glaze, Stanley George; Smith, Charles Philip; and Courtenay, Jerzy Leon, to Hobson, H. M., Limited. Damping devices. 3,692,260, 9-19-72, Cl. 244-78.000.
- Glazier, Frederick P.: *See*—
 Duling, Irl N.; Glazier, Frederick P.; Gates, David S.; and Moore, Robert E., 3,645,902.
 Duling, Irl N.; Gates, David S.; Moore, Robert E.; and Glazier, Frederick P., 3,648,531.
- Glazman, Boris Aronovich: *See*—
 Chepigo, Sergei Vladimirovich; Belenky, Solomon Iosifovich; Somov, Vsevolod Sergeevich; Voronkov, Vasily Gerasimovich; Belavsky, Mikhail Alexandrovich; Korotaev, Oleg Georgievich; Rodionova, Galina Sergeevna; Maximenko, Nikolai Spiridonovich; Glazman, Bori Aronovich; Belova, Larisa Alexandrovna; and Vorobiova, Galina Ivanovna, 3,654,084.
- Glazo Laboratories Limited: *See*—
 Shalley, Henry M., 3,697,378.
- Gleason, Clifford C.: *See*—
 Stenger, Richard E.; and Gleason, Clifford C., 3,653,207.
- Gleason, Robert Joseph, to FMC Corporation. Purification of phosphoric acid. 3,684,438, 8-15-72, Cl. 23-165.000.
- Gleason, Thomas E.; and Ripley, Charles C., to General Electric Company. Turbulence promoter formation. 3,662,578, 5-16-72, Cl. 72-75.
- Gleason, Thomas G., to Combustion Equipment Associates, Inc. Gas scrubber. 3,673,769, 7-4-72, Cl. 55-223.000.
- Gleason, Thomas J., to United States of America, Army. Stimulated radiation cavity reflector. 3,688,218, 8-29-72, Cl. 331-94.500.
- Gleason, William R. Dual welding wire feed for arc welder. 3,694,620, 9-26-72, Cl. 219-130.000.
- Gleason Works, The: *See*—
 Bergemann, Werner E.; Hunkeler, Ernst J.; and Pedersen, Harry, 3,659,496.
 Bruinsma, Norman G., 3,695,078.
 Clarke, James F.; and Deprez, Thomas A., 3,640,030.
 Ellwanger, Charles G., 3,686,801.
 Helfer, Lawrence R.; and Hunkeler, Ernst J., 3,635,323.
 Hunkeler, Ernst J., 3,653,290.
 Pedersen, Harry, 3,674,280.
 Pigage, Robert F.; Ryan, Arthur B.; and Smith, Robert E., 3,641,431.
- Gleave, Paul Rogerson: *See*—
 Doggart, John; and Gleave, Paul Rogerson, 3,683,845.
- Gleaves, Donald H. Pilot hole enlarger. 3,684,393, 8-15-72, Cl. 408-159.000.
- Gleeson, James E.: *See*—
 Dereich, John E.; Gleeson, James E.; and Earle, Glenn J., 3,693,548.
- Gleeson, Robert Leonard, to Lucas, Joseph, (Industries) Limited. Windscreens washer and wiper control system. 3,632,907, 1-4-72, Cl. 200-4.
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- Glehn, Karl. Devices for connecting pipes together. 3,700,266, 10-24-72, Cl. 285-24.000.
- Gleich, Horst: *See*—
 Wagner, Gerhard; Kroll, Friedrich; Gleich, Horst; and Kessler, Georg, 3,661,114.
 Wagner, Gerhard; Kroll, Friedrich; Gleich, Horst; and Kessler, Georg, 3,682,126.
- Gleim, Clyde E., to Goodyear Tire & Rubber Company, The. Polyester wire insulation. 3,657,008, 4-18-72, Cl. 117-218.
- Gleim, Clyde E.; and Mally, James A., to Goodyear Tire & Rubber Company, The. Reducing polyester reactor scale. 3,661,858, 5-9-72, Cl. 260-75.
- Gleim, George W.: *See*—
 Gathman, Albert; and Gleim, George W., 3,676,342.
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- Gleim, William K. T., to Universal Oil Products Company. Slurry hydrorefining of black oils with mixed vanadium and manganese sulfides. 3,694,352, 9-26-72, Cl. 208-215.000.
- Gleisberg, Dietrich: *See*—
 Dorn, Friedrich Wilhelm; Frank, Klaus; Gleisberg, Dietrich; Kandler, Joachim; and Thiel, Hans Dieter, 3,649,370.
 Schneider-Arnoldi, Alfred; Kampmann, Friedrich-Wilhelm; Thiel, Hans-Dieter; Kandler, Joachim; and Gleisberg, Dietrich, 3,676,165.
- Gleitschnelbau Gesellschaft mit beschränkter Haftung: *See*—
 Rohlf, Gunter, 3,632,079.
- Gleixner, Franz, to Sick, Erwin, Firma. Photoelectric sensing device. 3,678,281, 7-18-72, Cl. 250-216.000.
- Glemza, Rimantas: *See*—
 Duecker, Heyman C.; and Glemza, Rimantas, 3,672,831.
 Rettew, Richard R.; Wirth, David G., Jr.; and Glemza, Rimantas, 3,702,882.
- Glen Creations, Inc.: *See*—
 Lesavoy, Lawrence, 3,690,585.
- Glen, Dennis Ward: *See*—
 Clementson, John Joseph; and Glen, Dennis Ward, 3,707,394.
- Glen Lyon: *See*—
 Czeck, Joseph J.; Glen Lyon; and Reusser, Raymond E., 3,679,370.
- Glenburn Engineering Limited; c/o Conyers Dill & Pearman Bank of Bermuda Bldg.: *See*—
 Evans, Philip Henry, 3,660,703.
- Glendinning, William B.; and Pharo, Wellington B., to United States of America, Army. Method of rapidly detecting contaminated semiconductor surfaces. 3,672,980, 6-27-72, Cl. 117-201.000.
- Glenfield & Kennedy Limited: *See*—
 Angelinetta, Denis, 3,681,239.
- Glenn, Ashley C. Electrical switching device and circuit board therefor. 3,689,715, 9-5-72, Cl. 200-16.00r.
- Glenn, Charles O.: *See*—
 Streets, William L.; and Glenn, Charles O., 3,682,812.
- Glenn Company: *See*—
 Gibson, William Wallace, 3,689,861.
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 Kirby, Herbert D.; Nearhoof, George L.; and Glenn, Culler Jimmie, 3,685,900.
- Glenn, David A.; and Lytle, David N., to Electrogas, Inc. Electronic control apparatus having lean and automatic operator modes. 3,689,892, 9-5-72, Cl. 340-172.500.
- Glenn, Dwight W.: *See*—
 Faw, Frederick L.; Johnson, Ralph E.; Warren, Constance A.; and Glenn, Dwight W., 3,678,233.
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 Finn, John J., 3,691,347.
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 Barough, Victor; Glenn, Robert; and Rose, Louis, 3,669,019.
 Barouh, Victor; and Glenn, Robert, 3,704,150.
 Schwartzman, Gilbert; and Glenn, Robert, 3,680,968.
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 De Maria, Anthony J.; and Glenn, William H., 3,636,474.
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 LeMay, William E.; and Glennon, Richard F., 3,687,702.
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 Tomalia, Donald A.; and Glesner, William K., 3,673,274.
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 Bowden, James E.; and Glick, William L., 3,701,079.
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 Turesky, Samuel; and Glickman, Irving, 3,639,571.
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 Cutler, Joel L.; and Glickman, Joel I., 3,641,540.
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 Cutler, Joel L.; and Glickman, Joel L., 3,641,425.
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 Glidden, Roger C., 3,691,593.
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 Kononov, Boris Leonidovich; Kildishev, Vasily Semenovich; Kaplanov, Vadim Borisovich; Tokarev, Vladimir Ivanovich; Spivak, Boris Volkovich; Byaly, Boris Ilich; Chigirinsky, Alexander Abramovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kariashchevsky, Pavel Yakovlevich; and Cheremisov, Ivan Yakovlevich, 3,683,220.
 Kononov, Boris Leonidovich; Spivak, Boris Volkovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kildishev, Vasily Semenovich; and Stanislavsky, Lazar Yankelevich, 3,683,221.
 Kononov, Boris Leonidovich; Glider, Evgeny Khaimovich; Chigirinsky, Alexander Abramovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; and Spivak, Boris Volkovich, 3,686,522.
- Glikmans, Georges: *See*—
 Avrillon, Rene; Franckowiak, Sigismund; Gatellier, Claude; and Glikmans, Georges, 3,698,998.
 Gatellier, Claude; and Glikmans, Georges, 3,702,283.
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 Jeffreys, Roy A.; and Gloag, Elizabeth A., 3,637,395.
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 Blurton, Leon C.; and Cina, Saverio J., 3,693,729.
 Knorr, Gordon Dayton, 3,688,850.
 Koot, Nicholas L., 3,701,387.
 Michaelsen, Randolph C. H., 3,665,587.
 Norton, Thomas R., 3,647,007.
- Globe Illumination Company: *See*—
 Rosenblatt, Leonard; Horn, Chris C.; and Gallo, Mario S., 3,704,905.
 Taylor, Jack G.; and Gallo, Mario S., 3,681,596.
- Globe Manufacturing Company: *See*—
 Mayes, Nathan, 3,679,631.
- Globe Rubber Products Corporation: *See*—
 Harvey, Wilfred G., Sr., 3,642,336.
- Globe Ticket Company: *See*—
 Pargeon, Fred H., 3,692,222.
- Globe Tool and Engineering Company, The: *See*—
 Biddison, John M., 3,673,878.
 Biddison, John M., 3,705,459.
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 Elliott, William E.; and Huff, James R., 3,645,795.
- Globe Universal Sciences, Inc.: *See*—
 Bullard, Edwin R., Jr.; and Joosten, Wesley L., 3,703,828.
- Globe Valve Corporation: *See*—
 Thorp, Ralph E., 3,656,188.
- Globe-Union, Inc.: *See*—
 Butke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., 3,668,761.
 Butke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., 3,684,088.
 Butke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., 3,695,939.
 Fiant, Ronald Maynard, 3,686,056.
 Giesfeldt, William Otto; and Pinnow, Roy Lee, 3,678,569.
 Halsall, Vincent Michael; and Mrotek, Edward Norman, 3,652,341.
 Halsall, Vincent Michael; and Cosme, Peter Anthony, 3,673,302.
 Hansen, Eric George, 3,646,283.
 Jones, Kenneth R., 3,655,455.
 Lubin, Irving, 3,686,139.

- Mishler, Ralph Ephraim, 3,645,232.
 Mishler, Ralph Ephraim, 3,645,233.
 Mishler, Ralph Ephraim, 3,665,890.
 Mishler, Ralph Ephraim, 3,676,212.
 Morehouse, Clarence Kopperl; and Amlic, Robert F., 3,649,363.
 Orlando, Daniel; and Smith, George Paul, 3,687,734.
 Ota, Tadashi, 3,659,200.
 Rigsby, Canby A., Sr., 3,703,589.
 Ringle, Richard Bertram, 3,678,363.
 Robertson, Mark Christian; and Bishop, Donald Lloyd, 3,693,252.
 Vctor, Earl Leon; and Faust, Helmuth, 3,692,587.
 Globus, Anatol; Duplex, Paul; and Vautier, Roger, to Agence Nationale de Valorisation de la Recherche (ANVAR). Process and mill for grinding pulverulent materials, and the materials thus ground. 3,674,218, 7-4-72, Cl. 241-46.060.
 Globus Maskinfabrik A/S: See—
 Kverneland, Finn, 3,675,856.
 Glock, Erwin, to Licentia Patent-Verwaltungs-G.m.b.H. Active balanced modulator circuit. 3,636,478, 1-18-72, Cl. 332-43.
 Glockner, Hans: See—
 Credner, Hans-Heinrich; Glockner, Hans; and Nittel, Fritz, 3,652,286.
 Credner, Hans-Heinrich; Glockner, Hans; Muller, Fritz; and Kunitz, Friedrich Wilhelm, 3,658,537.
 Glockner, Hans; Meier, Ernst; and Puschel, Walter, to Agfa-Gevaert Aktiengesellschaft. Silver halide emulsion containing purple coupler for color photography and process of making the same. 3,677,764, 7-18-72, Cl. 96-100.000.
 Glockner, Peter W.: See—
 Bauer, Ronald; Chung, Harold; Barnett, Kenneth W.; Glockner, Peter W.; and Keim, Wilhelm, 3,686,159.
 Bauer, Ronald S.; Chung, Harold; Glockner, Peter W.; Keim, Wilhelm; and Van Zwet, Henry, 3,635,937.
 Bauer, Ronald S.; Chung, Harold; Glockner, Peter W.; Keim, Wilhelm; and Van Zwet, Henry, 3,644,563.
 Bauer, Ronald S.; Glockner, Peter W.; Keim, Wilhelm; and Mason, Ronald F., 3,647,915.
 Glockner, Peter W.; Keim, Wilhelm; and Mason, Ronald F., to Shell Oil Company. Ethylene oligomerization. 3,647,914, 3-7-72, Cl. 260-683.15.
 Gloeckler, Fred A., to Star Sprinkler Corporation of Florida. Flush type sprinkler. 3,633,676, 1-11-72, Cl. 169-40.
 Gloekler, Bernard: See—
 Lewis, William L., 3,695,456.
 Gloess, Paul F. Key board printer. 3,679,036, 7-25-72, Cl. 197-18.000.
 Gloess, Paul F. Keyboard printer for typewriting and recording characters on a magnetic tape. 3,681,776, 8-1-72, Cl. 346-74.00m.
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 Gloge, Detlef Christoph, to Bell Telephone Laboratories, Incorporated. Optical autocorrelator for autocorrelating picosecond optical pulses. 3,675,985, 7-11-72, Cl. 350-157.000.
 Glogg, Herbert, to Glogg, Willy, A.G. Shoes. 3,646,692, 3-7-72, Cl. 36-902.5.
 Glogg, Willy, A.G.: See—
 Glogg, Herbert, 3,646,692.
 Glolok Co., Ltd.: See—
 Lieberman, Abraham Buddy, 3,698,153.
 Glombitza, Klaus: See—
 Kolb, Karl; and Glombitza, Klaus, 3,662,468.
 Gloor, Urs; Ruegg, Rudolf; and Ulrich, Schwieter, to Hoffmann-La Roche Inc. Benzohydroquinones. 3,670,031, 6-13-72, Cl. 260-613.000.
 Gloridso, Ray: See—
 Kartasuk, Ray; and Gloridso, Ray, 3,669,440.
 Glorioso, Charles A., to Teletype Corporation. Precision reference point detector. 3,689,163, 9-5-72, Cl. 356-172.000.
 Glorioso, Robert M.; and Brooks, H. Craig. Electronic frequency tuning mechanism. 3,638,113, 1-25-72, Cl. 324-78.
 Glory Kogyo Kabushiki Kaisha: See—
 Hatanaka, Yoshihiro; Abe, Masahiro; Oshima, Takeo; and Akioka, Toshio, 3,652,081.
 Shigemori, Hideto; and Yamamoto, Akio, 3,652,833.
 Shigemori, Hideto; and Yamamoto, Akio, 3,652,834.
 Glos, Edmond A., II, 35% to Glos, Gladys M., 15% to Nathan, Thomas C. and 15% to LaFollette, Jack W. Section for disc filter apparatus. 3,643,803, 2-22-72, Cl. 210-232.
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 Glos, Gladys M.: See—
 Glos, Edmond A., II, 3,643,803.
 Gloskey, Carl R., to M & T Chemicals Inc. Foam forming process using as a gel catalyst a mixture of 2 ethyl hexoic acid and a stannous compound. 3,681,272, 8-1-72, Cl. 260-2.5ac.
 Gloskey, Carl Robert, to M & T Chemicals Inc. Non-toxic stabilized polyvinyl chloride products and stabilizer compositions. 3,640,947, 2-8-72, Cl. 260-45.75.
 Gloskey, Carl Robert, to M & T Chemicals Inc. Process for preparing organotin mercaptides. 3,657,294, 4-18-72, Cl. 260-429.7.
 Glosten, Lawrence R. Convertible-float floating platform. 3,673,973, 7-4-72, Cl. 114-50d.
 Glotin, Joseph M. H.: See—
 Alric, Andre A. L.; Porte, Gilbert R. A.; Glotin, Joseph M. H.; Higounenq, Francis J.; and Boussin, Serge P., 3,703,675.
 Glotov, Evgeny Borisovich: See—
 Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.
 Gloucester Engineering Co., Inc.: See—
 Schott, Charles M., Jr., 3,645,659.
 Glover, Brian: See—
 Bent, Christopher James; Flynn, Terence David; and Glover, Brian, 3,702,752.
 Glover, Cecil C. Golf club with adjustable weighting plugs. 3,652,094, 3-28-72, Cl. 273-171.
 Glover, Cecil C. Golf club having integrally formed face and sole plate with weight means. 3,692,306, 9-19-72, Cl. 273-80.700.
 Glover, Clinton G., to Potlatch Forests, Inc. Fence. 3,652,060, 3-28-72, Cl. 256-19.
 Glover, Eugene C., to Mentor Corporation. Stimulator apparatus for muscular organs with external transmitter and implantable receiver. 3,662,758, 5-16-72, Cl. 128-419.
 Glover, James L.: See—
 Stair, Virgil H.; and Glover, James L., 3,633,717.
 Glover, John B., to Hepworth Iron Company Limited, The. Pipe couplings. 3,645,547, 2-29-72, Cl. 277-207.
 Glover, Peter David; Forshaw, Richard; and Steele, William Henry, to Victa Limited. Carburettor throttle control assembly. 3,640,253, 2-8-72, Cl. 123-102.
 Glover, Peter David; Forshaw, Richard; and Steele, William Henry, to Victa Limited. Engine governors. 3,650,252, 3-21-72, Cl. 123-103.
 Glover, William T.; and Kelly, Eugene W., to Computone Systems Incorporated. Low cost portable terminal device for electronic data processing. 3,647,972, 3-7-72, Cl. 179-2.
 Głowne Biuro Studiow i Projektow Zaplecza Technicznego Motoryzacji Warszawa: See—
 Rozwadowski, Witold; and Szymanski, Aleksander, 3,686,856.
 Glowzewski, Thomas L.; and Cutler, Hymie, to Bendix Corporation, The. Adaptive numerical control system for a machine tool. 3,665,493, 5-23-72, Cl. 235-151.110.
 Gloyd, Harry: See—
 Vos, Kenneth Dean; and Gloyd, Harry, 3,680,738.
 Gluchowski, Alan, to American Flange & Manufacturing Co., Inc. Closure flange feed apparatus. 3,683,482, 8-15-72, Cl. 29-208.00b.
 Gluck, Julius; and Lara, Raul, to Sperry Rand Corporation. Capacitive key. 3,696,908, 10-10-72, Cl. 197-98.000.
 Gluckin, Gerald W.; and Boser, Ronald J. Stretchable strap or the like. 3,653,075, 4-4-72, Cl. 2-338.
 Gluckin, Gerald W. Stretch fabric watchband. 3,706,404, 12-19-72, Cl. 224-4.00e.
 Glucksman, Dov Z. Method for manufacturing squirrel-cage rotors for fluid moving devices. 3,694,881, 10-3-72, Cl. 29-156.80r.
 Glucoft, Harold; and Westerfield, James. Dial indicator holder. 3,664,029, 5-23-72, Cl. 33-180.
 Glueckert, Robert C., to Foam Forms, Inc. Method of molding expandable polystyrene particles using an inflatable core in the mold cavity. 3,651,180, 3-21-72, Cl. 264-51.
 Glunk, Josef; and Gnadler, Heinz. Mowing machine. 3,656,286, 4-18-72, Cl. 56-295.
 Glunk, Josef; and Gnadler, Heinz, to Maschinenfabrik Fahr Aktiengesellschaft. Swinging blade arrangement for mower assembly. 3,662,529, 5-16-72, Cl. 56-295.
 Glunt, Perry G.: See—
 Blackmore, Joseph J.; and Glunt, Perry G., 3,633,618.
 Gluntz, Claude; Meyer, Pierre; and Peyrot, Jean, to Compagnie Francaise de Raffinage. Process for the eliminating of compounds with acid function dissolved in a liquid medium. 3,640,982, 2-8-72, Cl. 260-88.2.
 Gluntz, Glenn Harlan, to AMP Incorporated. Post connector and assembly. 3,649,950, 3-14-72, Cl. 339-17.
 Gluntz, Glenn Harlan, to AMP Incorporated. Electrical connectors. 3,659,243, 4-25-72, Cl. 339-192.
 Gluskin, Richard S., to United States of America, Army. Pneumatic level sensing device. 3,666,263, 5-30-72, Cl. 271-56.000.
 Gluszek, Rudolph J. Detachable wrecking device. 3,658,384, 4-25-72, Cl. 299-37.000.
 Gluth, Joseph F.: See—
 Bassett, Ronald M.; and Gluth, Joseph F., 3,694,591.
 Gluth, Norman P.; and Houghton, Richard A., to LTV Electronics, Inc. Digital speech signal synthesizer. 3,697,699, 10-10-72, Cl. 179-1.0sa.

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 Gluz, Harry: See—
 Geis, James D.; Troll, John H.; Gluz, Harry; and Baker, Cole H., 3,678,729.
 Glyco Chemicals, Inc.: See—
 Eng, Stanley, 3,636,017.
 Foelsch, Donald Henry; and Manly, Donald G., 3,649,585.
 Henley, William O., 3,649,597.
 Glyco-Metall-Werke Daelen & Loos GmbH: See—
 Klauer, Richard, 3,632,459.
 Glynn, Emmett P.; and Hau, Howard L., to Liquid Carbonic Corporation. CO₂ refrigeration systems. 3,695,056, 10-3-72, Cl. 62-168.000.
 Glynn, Michael Harvey: See—
 Cheffers, Stanley John; and Glynn, Michael Harvey, 3,669,109.
 Glyptis, Nicholas D. Electric soldering gun and tip therefor. 3,651,306, 3-21-72, Cl. 219-233.
 Glyptis, Nicholas D., to Gale Industries, Inc. Method of imparting electrical conductivity to an amorphous substrate by ion implantation, and the product thereof. 3,682,700, 8-8-72, Cl. 117-211.000.
 G.M. Pfaff AG., Firma: See—
 Hedegaard, Kristen; and Lessmeister, Anton, 3,658,021.
 Gmunder, John: See—
 Bormann, Gerhard; Gmunder, John; and Wilkens, Heinrich, 3,671,541.
 Bormann, Gerhard; Gmunder, John; Wilkens, Heinrich; and Troxler, Franz, 3,674,801.
 Gmur, Dionys: See—
 Kronenberg, Hans; and Gmur, Dionys, 3,670,899.
 Gnad, Gerhard: See—
 Dehnert, Johannes; Grosch, Walter; and Gnad, Gerhard, 3,635,939.
 Gnad, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Diazo dyes having a β -(p-hydroxyphenyl)-propionic acid or a derivative thereof as the coupling component. 3,657,218, 4-18-72, Cl. 260-175.
 Gnad, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Phenyl-azo-naphthol dyes. 3,673,170, 6-27-72, Cl. 260-202.000.
 Gnadler, Heinz: See—
 Glunk, Josef; and Gnadler, Heinz, 3,656,286.
 Glunk, Josef; and Gnadler, Heinz, 3,662,529.
 Gnaedinger, John P.: See—
 Gnaedinger, Robert J., Jr.; and Gnaedinger, John P., 3,641,811.
 Gnaedinger, Richard H., to United States of America, Interior. System for cooking fish. 3,663,719, 5-16-72, Cl. 99-7.000.
 Gnaedinger, Robert J., Jr.; and Gnaedinger, John P. Method and apparatus for determining structural characteristics. 3,641,811, 2-15-72, Cl. 73-69.
 Gnage, Oliver W., to Eastman Kodak Company. Magazine for photoconductive elements. 3,658,321, 4-25-72, Cl. 271-61.
 Gnage, Oliver W.; and Connelly, Gordon F., to Eastman Kodak Company. Magnetic conveyor system. 3,670,868, 6-20-72, Cl. 198-41.000.
 Gnage, Oliver W., to Eastman Kodak Company. Gravity-fed storage device. 3,698,602, 10-17-72, Cl. 221-225.000.
 Gnagi, Alex; and Muller, Peter, to Cerberus AG. Apparatus for monitoring the conductors or lines of fire alarm installations. 3,665,461, 5-23-72, Cl. 340-409.000.
 Gnavi, Aldo; and Di Bartolomeo, Giacomo, to Compagnia Italiana Westinghouse Freni E Segnali. Automatic service conduit connector devices for railway vehicle couplings. 3,633,762, 1-11-72, Cl. 213-1.3.
 Gnecco, Arthur J.: See—
 Peterson, Victor S.; and Gnecco, Arthur J., 3,696,679.
 Gnesotto, Ferdinando: See—
 Casagrande, Gianpaolo; De Michelis, Turno; De Rossi, Attilio; and Gnesotto, Ferdinando, 3,689,396.
 Go Corporation, Inc.: See—
 Bopp, Cecil W., 3,655,315.
 Go International, Inc.: See—
 Basham, Edward R.; and Smith, William D., 3,670,566.
 Shannon, John Louis; and Basham, Edward R., 3,690,163.
 Smith, William D., 3,686,943.
 Go, Tadahi: See—
 Matsuo, Toshiaki; Chono, Koji; Go, Tadahi; and Komai, Hirotsuka, 3,705,880.
 Goal Company Limited: See—
 Taniyama, Mitsumasa, 3,665,740.
 Goan, John C., to United States of America, Navy. Method for improving graphite fibers for plastic reinforcement and products thereof. 3,634,220, 1-11-72, Cl. 204-164.
 Goba, Herbert K. Necktie knot-holding device. 3,654,633, 4-11-72, Cl. 2-153.
 Gobble, Lawrence T.: See—
 Choquette, Henry T.; Gobble, Lawrence T.; Studebaker, James B.; and Whittier, John D., 3,652,180.
 Gobby, Alan B., to Gobby Mfg., Inc. Basket attachment for tricycle. 3,664,683, 5-23-72, Cl. 280-202.000.
 Gobby Mfg., Inc.: See—
 Gobby, Alan B., 3,664,683.
 Gobel, Klaus. Facing of the roof edges in saw-tooth roofs or similar roofs. 3,686,803, 8-29-72, Cl. 52-18.000.
 Gobel, Wilhelm: See—
 Keberle, Wolfgang; and Gobel, Wilhelm, 3,637,553.
 Weitzel, Hans; Dinges, Karl; Gobel, Wilhelm; and Hardt, Dietrich, 3,641,206.
 Gobel, David H., to Medtronic, Inc. Electronic demand heart pacemaker with different pacing and standby rates. 3,656,487, 4-18-72, Cl. 128-419.
 Goberde, Bastiaan Cornelis: See—
 Price, Richard Thompson; Bauer, Stuart Michael; Brownlee, John; and Goberde, Bastiaan Cornelis, 3,655,838.
 Gobert, Michael R. R. Detergent. 3,640,877, 2-8-72, Cl. 252-99.
 Gobillon, Yves: See—
 Delbouille, Andre; Gobillon, Yves; and Stevens, Jacques, 3,663,660.
 Goble, Ralph W., to Autometrics Co., meane. Automatic clutch with locking means. 3,656,598, 4-18-72, Cl. 192-35.
 Goble, Ralph W., to Phonocopy, Inc. Facsimile transceiver. 3,707,601, 12-26-72, Cl. 178-7.600.
 Gobran, Ramsis: See—
 Ofstead, Ronald F.; and Gobran, Ramsis, 3,702,844.
 Gobran, Ramsis; Kremer, Leon V.; and Ethier, Dolores O., to Minnesota Mining and Manufacturing Company. Block copolymer compositions. 3,649,579, 3-14-72, Cl. 260-27.
 Gobron, Georges; and Motillon, Marcel; deceased (by Sudan, Jacqueline; Viaud, Colette; Motillon, Jeannine; and Motillon, Michel; legal heirs). Hydrogenation catalysts comprising nickel or copper deposited on silica. 3,652,458, 3-28-72, Cl. 252-454.
 Gobstein, Saul, to Ferro Corporation. Nickel salts of mixed organic anions. 3,655,708, 4-11-72, Cl. 260-439.
 Goby, Daniel E.: See—
 Hardy, Daniel G.; and Goby, Daniel E., 3,668,329.
 Gochman, Carl: See—
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Allwright, Eric Sydney; and Godwin, Roy Charles, 3,647,169.
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Horn, Harold Edwin; Kimball, Bruce Allan; and Godzicki, Martin Michael, 3,676,155.
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Duffield, Joseph Frederick; and Godziemba-Dambski, Zdzislaw R., 3,644,879.
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Friedrichsen, Wilhelm; and Goehre, Otto, 3,684,741.
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Dorogi, Stefan, 3,654,065.
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Wolf, Herbert; and Goeself, Wilhelm, 3,656,933.
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Bernardi, Luigi; Bosio, Germano; De Castiglione, Roberto; and Goffredo, Onofrio, 3,705,140.
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Poore, Earnest C.; and Goforth, John A., Jr., 3,690,472.
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Lai, Cheng Ying; and Goins, Charles Patrick, 3,645,445.
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Imai, Hisao, 3,647,518.
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- Golde, Hans; and Herrmann, Friedrich, 3,681,874.
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Dagleish, James McNair, 3,649,306.
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- Fink, Hans-Ferd; Koerner, Gotz; Rossmly, Gerd; and Schmidt, Gunter, 3,655,554.
- Fock, Jurgen; and Holtschmidt, Ulrich, 3,689,592.
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- Frohning, Hans, 3,684,613.
- Hofmann, Eberhard; and Holtschmidt, Ulrich, 3,647,808.
- Holtschmidt, Ulrich; and Hofmann, Eberhard, 3,637,828.
- Koerner, Gotz; and Rossmly, Gerd, 3,634,344.
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- Koerner, Gotz, 3,691,091.
- Ray, Alden E.; and Strnat, Karl, 3,677,947.
- Rossmly, Gerd, 3,637,541.
- Rossmly, Gerd; and Koerner, Gotz, 3,642,852.
- Rossmly, Gerd, 3,652,624.
- Rossmly, Gerd; and Koerner, Gotz, 3,655,555.
- Rossmly, Gerd, 3,655,712.
- Ruf, Erich, 3,660,077.
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Burman, Per Aron; Goldschmied, Sandor F.; and Sharma, Mahesh C., 3,684,151.
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Goldshtein, Moisei Abramovich; and Goldshtein, Arkady Moiseevich, 3,680,440.
- Goldshtein, Jury Moiseevich: See—
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Katchalski, Ephraim; Goldstein, Leon; Levin, Yehuda; and Blumberg, Shmaryahu, 3,650,901.
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- Gollobitz, Gregory N., to Behring Corporation. Vertical assembly apparatus. 3,699,628, 10-24-72, Cl. 29-200.00a.
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Harzer, Peter, 3,681,706.
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- Gomel, Lorenzo Martinez, to International Standard Electric Corporation. Multipolar connector for telephone sets. 3,701,084, 10-24-72, Cl. 339-66.00m.
- Gomersall, Earl Raymond; Meyer, Roger Paul; and Rejmanski, Susan English, to Texas Instruments, Incorporated. Method for operating a manufacturing line. 3,703,725, 11-21-72, Cl. 444-1.000.
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- Gomez, Aldan Duane: See—
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- Gomez, Peter Devera. Arithmetic teaching apparatus. 3,699,667, 10-24-72, Cl. 35-9.00b.
- Gomez, Ray J.; and Sawa, Kenneth B., to Beckman Instruments, Inc. Bypass filter assembly and method of obtaining a filtered sample. 3,674,153, 7-4-72, Cl. 210-409.000.
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- Gomi, Shinpei: See—
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- Gompf, Thomas E.; and Lum, Kin Kwong, to Eastman Kodak Company. Diffusion transfer processes and film units comprising compounds which are cleavable upon oxidation in alkali media to produce diffusible dyes or dye precursors. 3,698,897, 10-17-72, Cl. 96-3.00.
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- Gonczy, Csaba: *See—*
Harsanyi, Kalman; Reiter, Jozsef; Korbonits, Dezso; Gonczy, Csaba; Takacs, Kalman; Bako, Erzebet; Leszkovszky, Gyorgy; Tardos, Laszlo; and Vertesy, Csaba, 3,647,809.
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Harsanyi, Kalman; Takacs, Kalman; Relle, Zsuzsa, nee Somfai; Milak, Eva, nee Krompecher; Tardos, Laszlo; Korbonits, Dezso; Kiss, Pal; and Gonczy, Csaba, 3,673,188.
- Gondeck, Allan R., to Western Electric Company, Incorporated. Digital sine wave generator and method. 3,679,881, 7-25-72, Cl. 235-152.000.
- Gondo, Yasaka: *See—*
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- Gondolfe, James D.; Scalan, Ruth; and Ward, Jeanne A., to Polaroid Corporation. Diffusion transfer photographic elements comprising 5-hydroxy-4-azabenzimidazole and a second azabenzimidazole, and processes for their use. 3,687,660, 8-29-72, Cl. 96-3.000.
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- Gongwer, Calvin A., to Innerspace Corporation. Streamline swim mask. 3,653,086, 4-4-72, Cl. 9-329.
- Gonis, George; and Slezak, Frank B., to Union Camp Corporation. Method for synthesizing maleopimaric acid. 3,658,891, 4-25-72, Cl. 260-514.5.
- Gono, Yoshio: *See—*
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- Gonzales, Elwood J.; Berni, Ralph J.; and Benerito, Ruth R., to United States of America, Agriculture. Non-aqueous crosslinking of cellulose with a methylolated urea in the absence of an acidic catalyst. 3,645,667, 2-29-72, Cl. 8-116.3.
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- Gonzalez, Ricardo A., to Xerox Corporation. Paper flip control apparatus. 3,685,898, 8-22-72, Cl. 355-3.000.
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- Gonzalez, Vicente Esmo. Concealable beds. 3,665,527, 5-30-72, Cl. 5-10.00b.
- Gonzalez, Xavier F., to United States of America, Army. Radiation hardened R-L flip-flop circuit. 3,700,930, 10-24-72, Cl. 307-292.000.
- Gonzeles, Michael: *See—*
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- Gonzenbach, Carlos T.; and Jordan, Manuel A., to Schenectady Chemicals, Inc. Interpolymers prepared from vinyl toluene, alpha methyl styrene, dicyclopentadiene and optionally and acrylic compound. 3,640,977, 7-8-72, Cl. 260-80.78.
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- Gooch, John Henry. Railway transmission. 3,672,310, 6-27-72, Cl. 105-96.200.
- Goed, Arthur L., to Robertshaw Controls Company. Electrical switch construction. 3,662,132, 5-9-72, Cl. 200-670.
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- Goed, Paul F., to Speedco, Inc. Machine for filling luncheon dough into mold cans. 3,688,682, 9-5-72, Cl. 99-234.00r.
- Goed, Paul J., to Minnesota Mining and Manufacturing Company. Spring-powered preloaded camera. 3,685,414, 8-22-72, Cl. 95-31.0ac.
- Goed, Richard Samuel Jonathon; and Harvey, Barry Charles, to Marwin Machine Tools Limited. Machine tool gantries. 3,680,438, 8-1-72, Cl. 90-11.00r.
- Goedacre, Charles Lindsay, to Fiat Societa per Azioni. Internal combustion engine. 3,651,638, 3-28-72, Cl. 60-39.6.
- Goedacre, Ronald, to Lansing Bagnall Limited. Mounting devices for thyristors. 3,662,231, 5-9-72, Cl. 317-234.
- Goedale, Donald M., to Burroughs Corporation. Multi-track storage system having a touch circuit with individual head indication. 3,654,628, 4-4-72, Cl. 340-174.1.
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Goedale, Richard J., 3,645,394.
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- Goedale, Richard J., to Goedale Manufacturing Company, Inc. Apparatus for sorting and grading cut flowers. 3,645,394, 2-29-72, Cl. 209-82.
- Goedale, Richard J., to Goedale Manufacturing Company, Inc. Broccoli trimming machine. 3,646,977, 3-7-72, Cl. 146-78.
- Goedale, William B., to Ford Motor Company. Hydraulic steering system having auxiliary power source. 3,696,613, 10-10-72, Cl. 60-52.00s.
- Goodall, Laurence, to Ferranti, Limited. Means for rapidly switching tuned circuits of variable-frequency oscillators from one state to another. 3,646,477, 2-29-72, Cl. 331-117.
- Goodall Rubber Company: *See—*
Borden, Clarence W.; and Mills, John R., 3,635,504.
- Goodall Semi-Metallic Hose & Mfg., Co.: *See—*
Marshall, Don J., 3,665,989.
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- Goodard, John; Wilson, John Francis; and Glew, Derek Aubrey, to Rolls-Royce Limited. Electrolytic drilling. 3,696,014, 10-3-72, Cl. 204-143.00m.
- Goodart, Everett E. Egg separator. 3,656,525, 4-18-72, Cl. 146-2.
- Goodbar, Reid C.; and Pressley, Arther Mitchell, to Riegel Textile Corporation. Antistatic yarn production. 3,703,073, 11-21-72, Cl. 57-36.000.
- Goodbody, Richard L., to United States of America, Navy. HF superstructure discone antenna. 3,671,971, 6-20-72, Cl. 343-710.000.
- Goodboy, George O., Jr.; Green, Donald W.; and Kopec, Conrad J., to Macro Synthetic Systems, Inc. Off-shore transportation industrial and urban. 3,680,320, 8-1-72, Cl. 61-46.000.
- Goode, James K.: *See—*
Perkins, Garry R.; and Goode, James K., 3,688,966.
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Perkins, Garry R.; and Goode, James K., Jr., 3,684,339.
- Goode, John P.; Saeli, John J.; and Sformo, James P., to Sybron Corporation. Electrode retaining chuck handle assembly with adapter unit. 3,665,372, 5-23-72, Cl. 339-91.
- Goode, John W.: *See—*
Friant, James E.; Pawlak, Daniel E.; and Goode, John W., 3,687,076.
- Goode, Robert J.: *See—*
Huber, Ralph W.; Pellini, William S.; and Goode, Robert J., 3,645,803.
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Mackiernan, Kathleen, 3,644,955.
- Goodenough, Walter E., to Etronic Corporation. Gaging head for pneumatic bore gaging devices. 3,646,685, 3-7-72, Cl. 33-143.
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- Gooder, Robert M. System for fabricating structural members. 3,636,604, 1-25-72, Cl. 29-155.
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- Gooderum, Leoda J. Legless ironing board. 3,669,032, 6-13-72, Cl. 108-97.000.
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- Goodfellow, Robert D., to Kennametal Inc., mesne. Rotary cutter for excavation, especially for use with raise boring and tunnel boring machines. 3,679,009, 7-25-72, Cl. 175-374.000.
- Goodfellow, Robert D., to Subterranean Tools, Inc. Rotary cutter for excavation, especially for use with raise boring and tunnel boring machines. 3,707,315, 12-26-72, Cl. 308-8.200.
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- Goodhart, Steven E.; and Channels, Alfred C., to Stanray Corporation. Load carrying vehicle. 3,687,321, 8-29-72, Cl. 214-512.000.
- Goodhouse, Carl J.; and Strachan, Robert, to Robertshaw Controls Company. Cooking computer means. 3,688,978, 9-5-72, Cl. 235-61.00a.
- Goodhue, Charles T.: *See—*
Risley, Hugh A.; and Goodhue, Charles T., 3,642,581.
- Goodier, Kenneth C.: *See—*
Goodier, Vera M.; and Goodier, Kenneth C., 3,638,583.
- Goodier, Martin J.: *See—*
Boom, Roger J.; Cotton, John M.; Goodier, Martin J.; and Cosserat, David C., 3,657,736.
- Goodier, Vera M.; and Goodier, Kenneth C. Apparatus for baking doughnuts a goody-er donut baker. 3,638,583, 2-1-72, Cl. 107-19.
- Gooding, Chester M., to CPC International Inc. Production of high stability liquid vegetable oils. 3,674,821, 7-4-72, Cl. 260-409.000.
- Gooding, Chester Martin; Parker, Wilbur; and Melnick, Daniel, to CPC International Inc. Peanut butter. 3,671,267, 6-20-72, Cl. 99-128.000.
- Gooding, Harley L., Jr., to Parker-Hannifin Corporation. Swivel fitting. 3,685,397, 8-22-72, Cl. 92-106.000.
- Gooding, Jack E.: *See—*
Jelinek, James W.; Kozlowski, Joseph J.; and Gooding, Jack E., 3,657,640.
- Gooding, Otis E.; and Dixon, Alton E., to United States of America, Navy, mesne. Minimum shift keyed (MSK) phase measurement device. 3,674,934, 7-4-72, Cl. 178-88.000.
- Gooding, Ronald William; and Parratt, Noel James, to National Research Development Corporation. Process and apparatus for classifying fibres. 3,633,743, 1-11-72, Cl. 209-250.
- Goodkind, Karen B.; Hamilton, Brett B.; Larson, Ake L.; and Whittington, Jimmie L., to Mattel, Inc. Sound reproducing educational toy bank. 3,667,136, 6-6-72, Cl. 35-8.00a.
- Goodley, George F., to FMC Corporation. Method and apparatus for binding packages. 3,691,939, 9-19-72, Cl. 100-2.000.
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- Goodloe, Edith Jamison: *See—*
Goodloe, Alfred H., 3,667,142.
- Goodman, Abraham. Decorative appliques mounted on articles. 3,634,178, 1-11-72, Cl. 161-7.
- Goodman, Abraham H.: *See—*
Schiffmann, Robert F.; Roth, Howard; Lipka, David H.; and Goodman, Abraham H., 3,633,490.
- Schiffmann, Robert F.; Roth, Howard; Lipka, David H.; and Goodman, Abraham H., 3,679,432.
- Smadar, Yechiel; and Goodman, Abraham H., 3,677,443.
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Goodman, Robert; and Kilpatrick, David G., 3,644,945.
- Goodman, Daniel J. Safety anchored multi-conductor cable for electric arc furnaces. 3,652,797, 3-28-72, Cl. 174-15.
- Goodman, David Joel, to Bell Telephone Laboratories, Incorporated. Adaptive delta modulator. 3,652,957, 3-28-72, Cl. 332-11.
- Goodman, David M. Target screens for cathode ray tubes utilizing index generating materials that emit X-rays. 3,691,424, 9-12-72, Cl. 315-212.000.
- Goodman, David S.: *See—*
Mattingly, William R., Jr.; and Goodman, David S., 3,673,548.
- Goodman, Ernest A., to Allis-Chalmers Manufacturing Company. Protective means for distribution transformer. 3,666,992, 5-30-72, Cl. 317-15.000.
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- Goodman, Ernest A., to Allis Chalmers Manufacturing Company. Series-multiple transformer. 3,706,060, 12-12-72, Cl. 336-147.000.
- Goodman, Gerald W.: *See—*
Kern, Thomas W.; Barringer, George L.; Wands, William Ross; Leonard, Charles W.; and Goodman, Gerald W., 3,666,049.
- Goodman, H., & Sons, Inc.: *See—*
Fisher, Robert; and Herog, Milton W., 3,650,408.
Fisher, Robert; and Herog, Milton W., 3,661,271.
Goodman, Jacob, 3,677,270.
Goodman, Jacob, 3,707,158.
Jennis, Murray, 3,705,591.
- Katz, Norman, 3,678,946.
- Goodman, Harold S. Means for mixing and centrifugation. 3,707,354, 12-26-72, Cl. 23-253.00r.
- Goodman, Hubert Coleman, Jr.; and Hamann, Donald D., to Research Corporation. Sizing apparatus. 3,653,509, 4-4-72, Cl. 209-102.
- Goodman, Irving, to Haberman, Lee, mesne. Merchandising display facing. 3,685,186, 8-22-72, Cl. 40-140.000.
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- Goodman, Jacob, to Goodman, H., & Sons, Inc. Barrettes. 3,707,158, 12-26-72, Cl. 132-48.000.
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- Goodman, Martin M., to Columbia Belford Inc. Sliding structure roller assembly. 3,698,036, 10-17-72, Cl. 16-100.000.
- Goodman, Noah C.: *See—*
Woodall, Hubert C., Jr.; Freeman, Horace L.; and Goodman, Noah C., 3,669,157.
- Goodman, Robert; and Kilpatrick, David G., to Goodman Brothers Manufacturing Company. Adjustable hospital beds. 3,644,945, 2-29-72, Cl. 5-63.
- Goodman, Robert C.: *See—*
Mastroianni, Emilio G.; and Goodman, Robert C., 3,658,418.
Zimmerman, Burton R.; Bodley, Roger W.; and Goodman, Robert C., 3,640,195.
- Goodman, Robert C., to Texas Instruments, Incorporated. Partial oxidation of hydrocarbons. 3,685,977, 8-22-72, Cl. 48-107.000.
- Goodnight, Hershel: *See—*
Zink, John Smith; Goodnight, Hershel; and Reed, Robert D., 3,684,424.
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Reed, Robert D.; Goodnight, Hershel; and Zink, John Smith, 3,632,287.
- Zink, John Smith; Goodnight, Hershel; and Reed, Robert D., 3,659,962.
- Goodpasture, Kenneth Wayne. Fluid flow control apparatus for filter units in a filtration system. 3,670,895, 6-20-72, Cl. 210-167.000.
- Goodrich, Albert S., Jr. Elapsed time computer. 3,644,712, 2-22-72, Cl. 235-61.8.
- Goodrich, Allen C.: *See—*
Spink, Donald R.; and Goodrich, Allen C., 3,690,963.
- Goodrich, B. F., Company, The: *See—*
Adams, Lowell J., 3,657,514.
Backderf, Richard H., 3,706,697.
Ballini, Giuliano; and Baldi, Luciano, 3,658,732.
Beears, Warren L., 3,639,336.
Blankenship, James C., 3,682,012.
Borsvold, Herbert H., 3,690,796.
Brockway, Charles E.; Schollenberger, Charles S.; and Sachara, Eugene F., 3,692,597.
Brown, Harold P., 3,639,353.
Cameli, Nazzareno; Lingi, Paolo; and Valvassori, Alberto, 3,651,009.
Cameli, Nazzareno; Longi, Paolo; Valvassori, Alberto; and Parodi, Sandro, 3,651,032.
Cameli, Nazzareno; Longi, Paolo; Valvassori, Alberto; and Flisi, Umberto, 3,670,055.
Cameli, Nazzareno; Longi, Paolo; and Valvassori, Alberto, 3,674,754.
Carbonaro, Antonio; Greco, Alberto; Asta, Gino Dall; and Cameli, Nazzareno, 3,699,088.
Cardarelli, Nathan F.; and Neff, Harry F., 3,639,583.
Cau, Pasqualino; and Anelli, Ernes, 3,660,224.
Cimprich, Francis J., 3,667,881.
Coffman, Alfred M., 3,637,615.
Conrady, James A.; and Fitzpatrick, John S., 3,679,703.
Cooper, Ralph F.; and Wagner, Charles J., 3,694,283.
Dall'Asta, Gino; Carbonaro, Antonio; Borghi, Italo; and Greco, Alberto, 3,682,870.
De Witt, Elmer J.; and Sehm, Eugene J., 3,632,679.
Di Liddo, Bart A., 3,703,539.
Diliddo, Bart A.; and Cinadr, Bernard F., 3,644,311.
Diliddo, Bart A.; and Cinadr, Bernard F., 3,702,840.
Dinbergs, Kornelius, 3,660,341.
Eden, Jamal S., 3,634,502.
Eden, Jamal S., 3,664,968.
Eden, Jamal S., 3,669,909.
Eden, Jamal S., 3,706,692.
Fisher, John M.; and Paige, Kenneth E., 3,656,579.
Gilles, Jack C., 3,637,582.
Gilles, Jack C., 3,644,277.
Gilles, Jack C., 3,669,961.
Gilles, Jack C., 3,702,837.
Greco, Alberto; Carbonaro, Antonio; and Dall'Asta, Gino, 3,661,869.

- Hunt, David G., 3,647,342.
 Karper, Paul W.; and Porter, John P., 3,688,568.
 Kim, Heung T.; and Darby, John P., 3,702,226.
 Kletecka, George; and Smith, Peter D., 3,678,047.
 Knechtges, Donald P.; and Antliffinger, George J., 3,702,315.
 Knechtges, Donald P.; and Mikofalvy, Bela K., 3,702,785.
 Kobylak, Joe, 3,644,259.
 Kolycheck, Edmond G., 3,660,357.
 Kramer, James H., 3,706,481.
 Krupp, Carroll P., 3,668,745.
 Krupp, Carroll P., 3,669,585.
 Kurtz, Donald M., 3,658,531.
 Kuster, Howard L., 3,640,564.
 Kuts, Mathew, 3,631,748.
 Kuts, Mathew, 3,697,356.
 Kuts, Mathew, 3,701,186.
 Matthews, Harry P., 3,698,971.
 May, Gerald L., 3,648,312.
 McCarthy, William J.; and Ireland, Robert W., 3,635,864.
 McGinnis, Hebert E., 3,679,044.
 McGinnis, Hebert E., 3,701,411.
 Mikofalvy, Bela K.; and Knechtges, Donald P., 3,682,871.
 Morrissey, Richard T.; and Hess, Nelson C., 3,642,966.
 Murphy, Walter T., 3,663,351.
 Murphy, Walter T.; and Japs, Archie B., 3,701,681.
 Neff, Harry F.; and Sabo, Stephen C., 3,705,224.
 Nelson, Grover O., 3,644,703.
 Niemann, Theodore F., 3,699,191.
 Niemann, Theodore F., 3,700,756.
 Oetzel, John T., 3,649,715.
 Orndorff, Roy L., Jr., 3,637,273.
 Rinker, William R., 3,706,624.
 Schlatter, Robert K., Jr., 3,645,920.
 Schneider, Wolfgang, 3,683,038.
 Schneider, Wolfgang, 3,683,039.
 Schneider, Wolfgang, 3,696,157.
 Sehm, Eugene J., 3,644,576.
 Shively, Harmon G.; and Landsness, Clifford A., 3,681,877.
 Siebert, Alan R., 3,699,153.
 Skillicorn, Douglas E., 3,705,882.
 Smith, Peter D.; and Kletecka, George, 3,669,962.
 Spicer, Alvin W.; and Talalay, Anselm, 3,700,365.
 Spolsino, Peter P.; Riselli, Nicholas V.; and Bushway, Kenneth C., 3,645,315.
 Srail, Raymond C.; and Taylor, Ray D., 3,692,719.
 Stark, Amos J.; and McGinnis, Hebert E., 3,700,092.
 Starmer, Philip H., 3,697,490.
 Stockman, Charles H., 3,699,067.
 Stoeckel, Albert L.; and Zoltai, Alfred F., 3,645,452.
 Susa, Ermanno; and Mayr, Adolfo, 3,634,384.
 Todd, William D.; and Doyle, Thomas J., 3,632,467.
 Traynor, Lee, 3,637,632.
 van der Geer, Willem Jan, 3,668,195.
 Varga, Richard S., 3,704,189.
 Wilson, Matthew W., 3,663,268.
 Wolfgang, Schneider, 3,694,517.
 Zeff, Arthur A.; and Weaver, Harry R., 3,642,291.
 Zeff, Arthur A.; and Briscoe, James A., 3,701,500.
 Goodrich, Calvin C.; and Krummen, Eugene V., to Procter & Gamble Company, The. Rotating carton flap manipulator. 3,703,067, 11-21-72, Cl. 53-374.000.
 Goodrich, Eugene A.; and Johnson, Robert H. Automatic balancer for rotating masses. 3,696,688, 10-10-72, Cl. 74-573.000.
 Goodrich, Eugene E.; and Daniels, Paul J. Collapsible sanitary container. 3,638,834, 2-1-72, Cl. 222-105.
 Goodrich, Eugene E.; and Daniels, Paul J. Collapsible sanitary container. 3,638,835, 2-1-72, Cl. 222-107.
 Goodrich, George W.: See—
 Deradoorian, Bagdasar; Goodrich, George W.; and Theodorou, Dimitri G., 3,677,730.
 Goodrich, George W.; Colson, William B.; and Matle, Calvin C., to Bendix Corporation, The. Increased sensitivity photocathode structure. 3,700,947, 10-24-72, Cl. 313-103.000.
 Goodrich, Gordon W., to Lear Siegler, Inc. Motion display utilizing moire patterns. 3,634,959, 1-18-72, Cl. 40-106.53.
 Goodrich, Jerome D.: See—
 Bohlmann, Willy F., Jr.; Goodrich, Jerome D.; and Corley, Charles B., Jr., 3,658,126.
 Goodrich, John J.; and Waxlax, Chester E., to St. Regis Paper Company. Gusseted type bags. 3,687,356, 8-29-72, Cl. 229-55.000.
 Goodrich, Lloyd D.: See—
 Ross, Howard R.; Goodrich, Lloyd D.; and Mc Queen, Norman, 3,696,753.
 Goodrich, Robert S. Transmitter cut-off. 3,688,040, 8-29-72, Cl. 179-167.000.
 Goodrich, Robert S. Telephone disconnect device. 3,699,270, 10-17-72, Cl. 179-158.000.
 Goodrich-Gulf Chemicals Inc.: See—
 Bozik, John E.; Swift, Harold E.; and Wu, Ching-Yong, 3,703,483.
 Carlson, Earl J.; and Horne, Samuel E., Jr., 3,657,209.
 Goodricke, John Charles, to A.C.I. Operations Proprietary Limited. Trickle irrigation system. 3,672,571, 6-27-72, Cl. 239-145.000.
 Goodridge, Ernest E.: See—
 Bosworth, Delbert B.; and Goodridge, Ernest E., 3,677,439.
 Goodridge, Francis: See—
 Backhurst, John Rayner; Goodridge, Francis; Plimley, Raymond Ernest; and Fleischmann, Martin, 3,654,098.
 Goodridge, Walter R., to Electrostatic Equipment Corporation. Apparatus for producing hollow articles. 3,698,847, 10-17-72, Cl. 425-174.000.
 Goodsir, Stephen W.: See—
 Gomez, Eloy A.; Goodsir, Stephen W.; and Marrocco, Dominic A., 3,636,950.
 Goodspeed Machine Company: See—
 MacQueston, Dexter H., 3,651,843.
 Goodspeed, Neil C.: See—
 Dietz, Albert; Goodspeed, Neil C.; and May, Russell R., Jr., 3,640,744.
 Goodspeed, Neil C.; Dietz, Albert; and May, Russell R., Jr., to PPG Industries, Inc. Titanium dioxide of improved chalk resistance. 3,650,793, 3-21-72, Cl. 106-300.
 Goodwater, Harry C., to Audio Alert Corporation. Integrated fully supervised fire alarm system. 3,656,158, 4-11-72, Cl. 340-409.
 Goodwater, Harry C., to Audio Alert Corporation. Fire alarm system. 3,703,721, 11-21-72, Cl. 340-409.000.
 Goodwill Automated Devices, Inc.: See—
 Goodwill, John T., 3,670,783.
 Goodwill, John T., to Goodwill Automated Devices, Inc. Cable tying machine. 3,670,783, 6-20-72, Cl. 140-93.00r.
 Goodwillie, Richard E., to Chrysler Corporation. Automatic vacuum spark advance controller. 3,665,904, 5-30-72, Cl. 123-117.00a.
 Goodwin, Arthur J., to Diversified Inventory Systems, Inc. Apparatus for monitoring dispersion of liquid. 3,665,167, 5-23-72, Cl. 235-92.0f.
 Goodwin, Charles M. Clip board with pencil holder. 3,670,370, 6-20-72, Cl. 24-67.700.
 Goodwin, Clarence J.: See—
 Cofoid, Robert D.; and Goodwin, Clarence J., 3,681,992.
 Goodwin, Francis E.: See—
 Kiefer, James E.; and Goodwin, Francis E., 3,653,743.
 Goodwin, Frank E.: See—
 Kolb, William P., Jr.; and Goodwin, Frank E., 3,644,042.
 Goodwin, George H.: See—
 Wood, Thomas F.; and Goodwin, George H., 3,644,540.
 Goodwin, Korwin J.: See—
 Harrison, Hugh T.; and Goodwin, Korwin J., 3,686,008.
 Goodwin, Orval L., to Allan Pump and Supply, Inc. Gas carburetor valve. 3,698,367, 10-17-72, Cl. 123-120.000.
 Goodwin, Raymond Wendell, to United Aircraft Corporation. Acoustical filtration system. 3,650,094, 3-21-72, Cl. 55-277.
 Goodwin, Robert J.: See—
 Gaylord, Eber W.; and Goodwin, Robert J., 3,688,852.
 Goodwin, Robert James; and Greetham, Geoffrey, to National Research Development Corporation. Copper/iron/aluminium alloys. 3,666,448, 5-30-72, Cl. 75-122.
 Goodwin, William Gerry: See—
 Bradford, John Ramsey; and Goodwin, William Gerry, 3,656,429.
 Goodwin, Zeno E. Weighing apparatus for liquids. 3,677,356, 7-18-72, Cl. 177-190.000.
 Goodyear Aerospace Corporation: See—
 Apicella, Anthony M., Jr.; and Franks, John T., Jr., 3,698,011.
 Apicella, Anthony M., Jr.; and Surprise, Jon M., 3,701,124.
 Baker, Ronald E.; Fogarty, Robert L.; and Slagel, Edwin C., 3,698,587.
 Bartucci, John F.; and Horton, James A., 3,655,260.
 Batchner, Kenneth E., 3,681,781.
 Bell, James C., Jr., 3,669,368.
 Hogan, James J., 3,638,006.
 Kolarik, Robert V., 3,671,374.
 Lair, Robert C.; Pakurar, Julia H.; and Stricker, Edward G., 3,659,423.
 Meilander, Willard C., 3,665,464.
 Meilander, Willard C., 3,668,403.
 Palovchik, Stephen T., 3,637,140.
 Sprick, Walter F.; Morse, Frank C.; Holzer, Alexander; Meller, Oscar W.; and Lovich, John W., 3,706,392.
 Goodyear Aircraft Corporation: See—
 Cook, Richard L., 3,700,534.
 Goodyear Tire & Rubber Company, The: See—
 Appleby, Paul E.; Folden, Denver C.; and Riggs, Robert S., 3,644,162.
 Appleby, Paul E.; Folden, Denver C.; and Kubinski, Donald C., 3,676,259.
 Appleby, Paul E.; Riggs, Robert S.; and Woodhall, Edwin S., 3,676,260.
 Appleby, Paul E.; Folden, Denver C.; and Peck, Arland A., 3,676,261.
 Appleby, Paul E.; Folden, Denver C.; and Stuhldreher, Paul R., 3,687,756.
 Bauer, Richard G.; and Patitsas, George P., 3,676,410.

- Bell, Anthony J., 3,634,374.
 Bhakuni, Roop S.; Morgan, John C.; and Allen, Terry F., 3,661,623.
 Bickel, David P.; Davis, Melvin H.; Starks, Karl H., Jr.; and Tsoras, John, 3,678,486.
 Bilderback, John W., 3,640,975.
 Braden, William D.; Marshall, Richard P.; Greenhorn, Richard J.; and Buser, Arnold S., 3,656,343.
 Braden, William D.; Marshall, Richard P.; Greenhorn, Richard J.; and Buser, Arnold S., 3,698,233.
 Bricker, Carl E., 3,687,240.
 Bricker, Carl E.; and Hillegass, Kenneth P., 3,687,247.
 Brinkley, Max D.; and Griffiths, Robert I., 3,654,026.
 Brinkley, Max D.; and Kerr, Glenn D., 3,694,998.
 Brobeck, Von H.; and Zulick, Mike, 3,692,090.
 Brownword, John E., 3,632,845.
 Bryson, Jay G.; Menapace, Henry R.; and Benner, Gereld S., 3,644,088.
 Bucher, Robert W., 3,704,190.
 Buhrmann, Wayne H.; and Fix, Sidney R., 3,682,202.
 Bullard, Herbert L., 3,661,870.
 Burkley, Thomas E., 3,691,268.
 Calderon, Nissim, 3,666,742.
 Calderon, Nissim; and Scott, Kenneth W., 3,692,872.
 Christie, Christopher E.; Fedor, James R.; Harwell, Ishmael S.; and Riggs, Robert S., 3,666,598.
 Christie, Christopher E.; and Martin, Eugene Earl, 3,676,028.
 Chung, Daniel A.; and Pearson, Charles J., 3,677,869.
 Cohn, Gerald, 3,657,180.
 Cook, Michael W., 3,699,840.
 Crossman, Richard L., 3,698,519.
 Dean, Paul R., II, 3,652,495.
 Ditty, James E., 3,637,599.
 Dorf, Marvin L., 3,656,359.
 Downey, Raymond E., 3,699,189.
 Dudley, James E., 3,664,984.
 Enabnit, Robert S., 3,665,387.
 Enabnit, Robert S.; and Wolfe, Merritt W., 3,675,375.
 Endter, Norman G., 3,638,702.
 Evans, Theodore A.; and Conger, Marvin T., 3,635,847.
 Evans, Theodore A.; Meck, Robert M.; and Thibodeau, Joseph E., 3,656,530.
 Fall, Harry H., 3,676,529.
 Finelli, Anthony F., 3,640,938.
 Fix, Sidney R., 3,656,360.
 Fix, Sidney R.; Olson, Stanley W.; and Wolfe, John C., 3,661,823.
 Fix, Sidney R., 3,666,584.
 Folden, Denver C.; and Peck, Arland A., 3,687,779.
 Frech, Kenneth J.; and Garmon, James J., 3,666,829.
 Gallagher, William C., 3,661,668.
 Gastin, Darrell L., 3,698,428.
 Gill, Homer R., 3,666,175.
 Gleim, Clyde E., 3,657,008.
 Gleim, Clyde E.; and Mally, James A., 3,661,858.
 Gracia, Albert J.; Reilly, Patrick J.; and Walters, Sandra J., 3,644,186.
 Griffin, Theodore F.; and Rye, Grover W., 3,675,621.
 Griffin, Theodore F., 3,675,622.
 Habeck, Bruce W.; and Miller, Donald E., 3,703,586.
 Hawkes, Joseph S.; and Turk, David L., 3,650,865.
 Henderson, James Neil, 3,652,512.
 Hewitt, John H., 3,675,482.
 Hinks, William L.; and Hosterman, Harry L., 3,696,655.
 Hoppstock, Frederic H., 3,636,125.
 Hoppstock, Frederic H.; Falvo, Louis A.; and Frech, Kenneth J., 3,676,518.
 Hopton, Thomas E.; and Socha, Robert P., 3,706,679.
 Horvath, James W.; and Markley, Charles A., 3,661,825.
 Hunter, Edward E., 3,643,844.
 Hunter, Edward E., 3,703,263.
 Jackson, William E., 3,645,907.
 Jackson, William E., 3,647,513.
 Jacobs, Paul F., 3,698,462.
 Johnson, Ernest D., 3,666,074.
 Johnson, Ernest D., 3,685,635.
 Johnson, Ernest D., 3,687,257.
 Johnson, Ernest D., 3,698,535.
 Judy, William A.; and Throckmorton, Morford C., 3,652,529.
 Judy, William Allen, 3,657,208.
 Judy, William Allen, 3,689,471.
 Keck, Max H., 3,649,571.
 Kline, Richard H., 3,649,593.
 Kline, Richard H., 3,649,595.
 Kline, Richard H., 3,658,769.
 Kovac, Frederick J.; and Rye, Grover W., 3,665,994.
 Kuhar, George A., 3,699,023.
 Lal, Joginder, 3,632,784.
 Lal, Joginder, 3,649,561.
 Lal, Joginder; and Heppert, Donald E., 3,666,737.
 Larson, William M.; and Jackson, William E., 3,703,426.
 LaRue, James F., 3,675,407.
 Laun, Charles L., III, 3,703,317.
 Lemper, Anthony L.; and Okuzumi, Yuzi, 3,661,856.
 Lovell, John A., 3,648,748.
 Lucas, George A., 3,667,625.
 Mast, William C.; and Klemmensen, Daniel F., 3,649,581.
 Mc Caffrey, Lee A., 3,645,834.
 Menapace, Henry R.; and Wang, Jin-Liang, 3,636,126.
 Mills, Harold E.; and Young, Claude S., 3,693,690.
 Morton, Donald E., 3,703,488.
 Morton, Maurice; and Fettes, Lewis J., 3,663,634.
 Nelson, John P.; Dernovshek, Joseph F.; Miller, Hal E.; and Byers, Clifton A., 3,650,357.
 Neugroschl, Ernst J., 3,659,974.
 Neumeister, Alvin W., 3,687,394.
 Okuzumi, Yuzi, 3,634,358.
 Okuzumi, Yuzi, 3,699,083.
 Parkinson, Alan R., 3,699,166.
 Patitsas, George P.; and Bauer, Richard G., 3,661,824.
 Pearson, Charles J.; Robinson, Keith D.; and Sassaman, William O., 3,639,748.
 Piirma, Aleksander, 3,676,393.
 Roberts, Charles W., 3,656,532.
 Robinson, Keith D., 3,699,198.
 Sawyer, John M., 3,698,927.
 Scheibelhoffer, Anthony S., 3,699,063.
 Semin, Roy E.; and Geist, Joseph C., 3,643,518.
 Shelton, James R.; and Hopper, Roger J., 3,678,017.
 Siefert, George J., 3,662,596.
 Simpson, Robert O., 3,682,223.
 Smithkey, John C., Jr., 3,657,039.
 Smithkey, John C., Jr., 3,685,564.
 Spacht, Ronald B., 3,682,904.
 St. Cyr, David R., 3,692,756.
 Stoker, Carl B., Jr., 3,695,417.
 Suter, Charles A., 3,675,377.
 Throckmorton, Morford C., 3,640,989.
 Throckmorton, Morford C., 3,649,605.
 Throckmorton, Morford C., 3,657,205.
 Throckmorton, Morford C.; and Saitman, William M., 3,676,411.
 Turk, David L., 3,704,741.
 Tyson, David Z.; Hunter, Edward E.; and Best, Willie Herman, 3,643,342.
 Underwood, Theodore A., 3,692,742.
 Wang, Jin-Liang, 3,634,540.
 Ward, John P.; and Judy, William A., 3,652,487.
 Watters, Larry H., 3,640,769.
 Watts, George T.; and Yeager, Robert W., 3,675,703.
 Wilson, Farris H., Jr., 3,706,742.
 Wilson, Joan L., 3,697,491.
 Winter, Hans Joachim, 3,693,689.
 Wolfe, James D., 3,694,530.
 Wolfe, Merritt W., 3,703,423.
 Woodhall, Edwin S.; Appleby, Paul E.; and Touchette, John W., 3,698,987.
 Goodyear, W. Frederick: See—
 Belcher, Richmond D.; Duggan, Robert J.; Ellis, George R.; Esslinger, Robert H.; Goodyear, W. Frederick; Marshall, Joseph C.; and Masone, Thomas R., 3,656,148.
 Googin, John M.: See—
 Asbury, Joseph J.; and Googin, John M., 3,634,563.
 Goold, Raymond. Coupling units for articulated vehicles. 3,701,547, 10-31-72, Cl. 280-432.000.
 Goolsby, Alvin D., to Shell Oil Company. Floating liquid monitor. 3,659,943, 5-2-72, Cl. 356-70.
 Goorissen, Jan: See—
 Wesselink, Gustaaf Adolf; Holmes, Thomas; de Kock, Arie Jan Rudolf; and Goorissen, Jan, 3,678,315.
 Goosey, Richard Ernest, to Imperial Metal Industries (Kynoch) Limited. Titanium-base alloys. 3,666,453, 5-30-72, Cl. 75-175.5.
 Goossens, John C., to General Electric Company. Filler cross-linked polysiloxanes. 3,654,215, 4-4-72, Cl. 260-37.
 Goossens, John C., to General Electric Company. Organosilylamines reaction between organosilylamine and a silanol-containing organosilicon material. 3,674,739, 7-4-72, Cl. 260-46.50g.
 Goossens, Urbaan Paul Marguerite, to U.S. Philips Corporation. Low-pressure sodium vapor discharge lamps. 3,646,378, 2-29-72, Cl. 313-27.
 Goossens, Urbaan Paul Marguerite, to U.S. Philips Corporation. Gas and/or vapour discharge lamp having a U-shaped discharge tube. 3,688,390, 6-6-72, Cl. 313-220.000.
 Goossens, Urbaan Paul Marguerite; Van Hoorn, Willem Lodewijk; and De Neve, Gerard Marie Jules, to U.S. Philips Corporation. Vibration reducing assembly for oblong discharge lamp. 3,707,645, 12-26-72, Cl. 313-269.000.
 Goossev, Constantin, to Ball Sphere Hinge Syndicate. Hings. 3,685,094, 8-22-72, Cl. 16-149.000.
 Goot, Arnold van der. Outer building wall air heating device with a heat exchanger. 3,688,759, 9-5-72, Cl. 126-85.00b.
 Gopen, Howard J.: See—

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- Goralski, Christian T.: See—
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- Gordon, Asquith Deakin; and Gordon, Vinnicombe. Apparatus for moulding liners of plastic material within container closures. 3,702,225, 11-7-72, Cl. 425-112.000.
- Gordon, Bernard M., to Gordon Engineering Company. Field effect transistor switch, particularly for multiplexing. 3,654,394, 4-4-72, Cl. 179-15.
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- Gordon, Colin G.: See—
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- Gordon, David A.: See—
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- Gordon, Raymond; and Gordon, David A., 3,700,665.
- Gordon, David E., to Deering Milliken Research Corporation. Production of pile fabrics. 3,669,779, 6-13-72, Cl. 156-72.000.
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- Gordon, Douglas, to Briggs & Stratton Corporation. Muffler for internal combustion engines. 3,650,354, 3-21-72, Cl. 181-40.
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- Lucas, Paul G., 3,649,924.
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- Rigby, Sherman, 3,641,543.
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- Gordon, Frederick Armstrong; Griffin, James Richard; and Pezzarossi, John Joseph, to American Standard, Inc. Water control for toilet tanks. 3,693,649, 9-26-72, Cl. 137-414.000.
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- Gordon, Gary B.; and Garman, Jonathan D., to Hewlett-Packard Company. Method and apparatus for the measurement and display of error values of precision machine tools, electronic instruments, etc. 3,654,446, 4-4-72, Cl. 235-151.3.
- Gordon, Gary B., to Hewlett-Packard Company. Logic clip. 3,670,245, 6-13-72, Cl. 324-73.00r.
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- Gordon, George E.; and Landrum, Leon L. Baseball equipment storage rack. 3,698,563, 10-17-72, Cl. 211-13.000.
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- Gordon, Hayden S., to United States of America, Air Force. Polymeric cyclotron. 3,641,446, 2-8-72, Cl. 328-228.
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- Gordon, Howard W.; and Shepard, James N., to United States Steel Corporation. Strip accumulator. 3,698,613, 10-17-72, Cl. 226-118.000.
- Gordon, Irving; Hodan, James J.; and Dever, James L., to Hooker Chemical Corporation. Process for preparing bisphosphite esters of alkylidene diphenol. 3,646,173, 2-29-72, Cl. 260-976.
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- Gordon, James Franklin, to Zeta Research, Inc. Graphic recorder with paper tensioning mechanism. 3,653,068, 3-28-72, Cl. 346-136.
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- Gordon, John Edson: See—
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- Gordon, Keith M., to MPB Corporation. Bearing torque test instruments. 3,685,342, 8-22-72, Cl. 73-9.000.
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- Gordon, Maxwell; and Weisbach, Jerry A., to Smith Kline & French Laboratories. Glyceride derivatives of prostaglandins. 3,632,627, 1-4-72, Cl. 260-468.
- Gordon, Maxwell; and Stewart, Carleton C., to Smith Kline & French Laboratories. Vaginal suppositories and impregnated tampons. 3,639,561, 2-1-72, Cl. 424-28.
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- Gordon, Michael E., to Celanese Corporation. Modified oxymethylene polymers. 3,658,749, 4-25-72, Cl. 260-37.
- Gordon, Michael S.; and Messmore, Francis B., to Research Corporation. Cardiac training mannikin. 3,662,076, 5-9-72, Cl. 35-17.
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- Gordon, Paul C.: See—
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- Gordon, Robert A., to Eastman Kodak Company. Photographic web processing device. 3,640,204, 2-8-72, Cl. 95-94.
- Gordon, Robert C.: See—
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Kahn, Leonard R.; and Gordon, Robert R., 3,696,298.
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- Gordon, Ronnie D., to Continental Oil Company. Dehydrohalogenation catalyst. 3,664,966, 5-23-72, Cl. 252-430.
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- Gordon, Roy Charles: See—
Cate, Alan Clifford; and Gordon, Roy Charles, 3,680,991.
- Gordon, Sherritt, Mines Limited: See—
Mackiw, Vladimir Nicolaus; Veltman, Herbert; and Vizsolyi, Andrew Imre, 3,637,371.
- Vaneldik, Jan Frederik; Wilson, Ronald Ian; Kampjes, Gerrie Richard; and Lavender, William James, 3,705,478.
- Vosahlova, Eva A.; and Weir, Donald Robert, 3,644,114.
- Gordon, Stuart; Evans, Geoffrey Ian; and Cunliffe, Alwyn, to Imperial Metal Industries (Kynoch) Limited. Solid propellant charge making in mold having perforated separator means. 3,678,138, 7-18-72, Cl. 264-3.00r.
- Gordon, Vinnicombe: See—
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- Gordon, Walter C., to DeSoto Chemical Co., Inc. Insecticide apparatus. 3,643,371, 2-22-72, Cl. 43-131.
- Gordon, William E.: See—
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- Gordon, William F.; and Newman, James W., to Windings, Inc. Machine for winding flexible material. 3,655,140, 4-11-72, Cl. 242-18.
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- Gordt-Griess, Hanna: See—
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- Gordy, John; and Harris, Douglas R., to Stellar Industries Ltd. Electrolytic destruction of sewage. 3,703,453, 11-21-72, Cl. 204-151.000.
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- Gore, W. L., & Associates, Inc.: See—
Gore, Wilbert L., 3,664,915.
- Gore, Wilbert L., to Gore, W. L., & Associates, Inc. Sealing material. 3,664,915, 5-23-72, Cl. 161-164.
- Gore, William C.; and Shapiro, Eugene B., to Beatrice Foods Company. Clutch for use in the plumbing field. 3,696,639, 10-10-72, Cl. 64-29.000.
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- Gorecki, Thomas A.: See—
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- Gorenshtein, Ilya Vladimirovich: See—
Basin, Genrikh Maxovich; Gorenshtein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Yakov Benediktovich, 3,648,471.
- Gores, Kenneth W. Cushion tip for atomizer nozzles. 3,637,141, 1-25-72, Cl. 239-326.
- Gores, Kenneth W., to MPL, Inc. Method of forming bevel oriented needle arrangement. 3,662,457, 5-16-72, Cl. 29-508.
- Gorey, Edward F.: See—
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- Dupnock, Andrew; Gorey, Edward F.; and Keenan, William A., 3,676,775.
- Gorgei, Donald J.; Weisz, Daniel I.; and Cooper, Russell B., to Beaver-Advance Corporation. Conveyor system for viscous or cementitious material. 3,656,607, 4-18-72, Cl. 198-118.
- Gorgens, Joseph E.; Heske, William A.; and Goff, Randall, to Dresser Industries, Inc. Condition responsive apparatus. 3,691,843, 9-19-72, Cl. 73-411.000.
- Gorgone, Robert L.; and Emery, Robert J., to Gilford Instrument Laboratories, Inc. Temperature controlled flow cell. 3,646,313, 2-29-72, Cl. 219-200.
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- Gorike, Rudolf, to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Decorative arrangement for microphone assemblies. 3,642,558, 2-15-72, Cl. 161-5.
- Gorike, Rudolf; and Lemoch, Karl, to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Lavalier microphone assembly protected against friction noises. 3,651,286, 3-21-72, Cl. 179-180.
- Gorike, Rudolf, to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Headband construction for headphones. 3,682,268, 8-8-72, Cl. 181-31.00r.
- Gorin, Eugene: See—
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- Gorinas, Guy Georges: See—
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- Goring, Cleve A.; and Noveroske, Robert L., to Dow Chemical Company, The. Metal salt complexes of imidazolylphosphonothioates. 3,632,755, 1-4-72, Cl. 424-200.
- Gorini, Edmondo. Method for manufacture of stocking toes. 3,685,320, 8-22-72, Cl. 66-95.000.
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- Gorkiewicz, Walter Joseph: See—
Van Raalte, John A.; and Gorkiewicz, Walter Joseph, 3,637,308.
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- Gorkovsky Avtomobilny Zavod: See—
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Demeter, John C., 3,696,334.
- Gorling, Karl Goran, to Boliden Aktiebolag. Process for low temperature chlorination of roasted products from an iron sulphide roasting process prior to leaching out the non-ferrous metal present therein. 3,674,462, 7-4-72, Cl. 75-9.000.
- Gorman, Anthony Graham, to Amplivox Limited. Ear defenders. 3,637,040, 1-25-72, Cl. 181-33.
- Gorman, Jeremy W., to Loctite Corporation. Encapsulation of monomeric materials. 3,704,264, 11-28-72, Cl. 252-316.000.

- Gorman, John R. Balancing game. 3,675,920, 7-11-72, Cl. 273-1.00r.
- Gorman, Joseph. Pocket-folder and binder. 3,680,969, 8-1-72, Cl. 402-3.000.
- Gorman, Wayne D. Motor cycle back rests. 3,698,762, 10-17-72, Cl. 297-195.000.
- Gorman, William G.; and Katz, Erich, to Sterling Drug Inc. Aqueous magnesium hydroxide suspensions. 3,692,898, 9-19-72, Cl. 424-158.000.
- Gorman-Rupp Company, The: See—
McFarlin, Stanley B., 3,644,061.
- Gornall, Henry A., to Ferro Corporation. Endless furnace and the method of utilizing same for dry process, vitreous enameling. 3,649,327, 3-14-72, Cl. 117-23.
- Gorndt, John H., to Lord Corporation. Rotor system. 3,700,352, 10-24-72, Cl. 416-134.000.
- Gorniak, Jerry T. Applicator for flooring materials. 3,650,440, 3-21-72, Cl. 222-565.
- Gornott, Dietmar: See—
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- Gornowicz, Gerald A.; and Wendel, Samuel R., to Dow Corning Corporation. Process of making amino substituted organosilicon compounds and the compounds made thereby. 3,660,454, 5-2-72, Cl. 260-448.8.
- Gorog, Istvan: See—
Heyman, Philip Michael; and Gorog, Istvan, 3,706,845.
- Gorog, Peter: See—
Bernath, Gabor; Kovacs, Kalman; Palosi, Eva; Gorog, Peter; and Szporny, Lazzlo, 3,654,360.
Magdany, Lazzlo; Gelleri, Andras; Pallos, Lazzlo; Erdelyi, Lujza, nee Petocz; and Gorog, Peter, 3,705,175.
- Gorog, Sandor: See—
Tuba, Zoltan; Bor, Maria, nee Szabo; Komesz, Zoltan; Weitner, Eva, nee Vari; and Gorog, Sandor, 3,705,150.
- Gorrell, John H., to King-Seeley Thermos Co., mesne. Method of making patterned metal coatings by selective etching of metal. 3,647,508, 3-7-72, Cl. 117-38.
- Gorrell, John H., to King-Seeley Thermos Co., mesne. Metallized article. 3,660,138, 5-2-72, Cl. 117-35.
- Gorrell, Richard L.; and Gibson, Harold F., to Kickshaw, Inc. Multi-film projector. 3,687,536, 8-29-72, Cl. 353-35.000.
- Gorring, Robert L., to Mobil Oil Corporation. Growing hydrocarbon-utilizing microorganisms. 3,642,577, 2-15-72, Cl. 195-28.
- Gorsky, Anatoly Vasilievich: See—
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- Gorsky, Egon: See—
Gardel, Robert; Gorsky, Egon; and Turshen, Richard S., 3,636,653.
Gardel, Robert; and Gorsky, Egon, 3,641,702.
Gardel, Robert; and Gorsky, Egon, 3,660,931.
Gardel, Robert; and Gorsky, Egon, 3,672,097.
Gardel, Robert; and Gorsky, Egon, 3,700,384.
- Gorsuch, Harold F., to Westinghouse Electric Corporation. Automatic line switch lock-out. 3,689,718, 9-5-72, Cl. 200-61.620.
- Gorsuch, Reynolds G., to Bourns, Inc., mesne. Volumetric respirator. 3,633,576, 1-11-72, Cl. 128-145.8.
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- Gorton, Fred B. Fluorescent lighting circuit. 3,660,716, 5-2-72, Cl. 315-187.
- Gorton Machine Corporation: See—
Mousseau, Daniel J.; and Larsen, Charles A., 3,691,626.
- Gorton, Slade, & Co., Inc.: See—
Wenstrom, Richard T.; and Gorton, Thomas S., Jr., 3,662,432.
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Wenstrom, Richard T.; and Gorton, Thomas S., Jr., 3,662,432.
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- Gortz, Gunther, to Porsche, Dr.-Ing., H.C.F., K.G., Firma. Synchronous device for change-speed gears especially for motor vehicles. 3,633,716, 1-11-72, Cl. 192-53.
- Gortz, Herbert: See—
Hummel, Heinz; and Gortz, Herbert, 3,695,093.
- Goryacheva, Kapitolina Arsenievna: See—
Bobylov, Alexei Vasilievich; Goryacheva, Kapitolina Arsenievna; and Chernikova, Alla Vasilievna, 3,650,733.
- Goryachkin, Vladimir Ivanovich: See—
Nelen, Igor Mikhailovich; and Goryachkin, Vladimir Ivanovich, 3,687,628.
- Gorzell, Keith E. Sprinkler system wheel structure. 3,684,180, 8-15-72, Cl. 239-212.000.
- Goscenski, Edward J., to Bendix Corporation. The. By-pass orifice for hydraulic boost device. 3,633,462, 1-11-72, Cl. 91-450.
- Goscenski, Edward J., to Bendix Corporation. The. Concentric brake booster with moving hoses. 3,677,007, 7-18-72, Cl. 60-54.60p.
- Goscenski, Edward J., to Bendix Corporation. The. Mechanism for hydraulic brake booster. 3,677,138, 7-18-72, Cl. 91-373.000.
- Goscenski, Edward J., Jr.: See—
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- Goscenski, Edward J., Jr., to Bendix Corporation. The. Gear generating fixture for gear shaper. 3,707,111, 12-26-72, Cl. 90-8.000.
- Gosden, Derek Vernon: See—
Williams, Frank Ronald; Whitehead, Jack; Marshall, Jefferson; Connors, Alan; and Gosden, Derek Vernon, 3,649,243.
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- Gosewinkel, Werner: See—
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- Goshen, Randal W.: See—
Hamer, William J.; and Goshen, Randal W., 3,704,395.
- Goshi Kaisha Yoshikawa Seimitsu Koshakusho: See—
Yoshikawa, Kengi; and Hayashi, Etsuo, 3,704,048.
- Goshi, Yoichi; and Fukao, Yoshiro, to Tokyo Shibaura Electric Co., Ltd. Double crystal X-ray spectrometer. 3,639,759, 2-1-72, Cl. 250-51.5.
- Goshima, Takeshi, to Canon Camera Kabushiki Kaisha. Camera shutter incorporating a governor mechanism. 3,662,664, 5-16-72, Cl. 95-63.000.
- Goshima, Takeshi; and Imai, Nobuhiro, to Canon Kabushiki Kaisha. Reel brake device for tape recorder. 3,670,992, 6-20-72, Cl. 242-204.000.
- Goshima, Takeshi; Ohta, Shoji; and Imai, Nobuhiro, to Canon Kabushiki Kaisha. Mode switching system for magnetic recording-reproducing apparatus. 3,687,395, 8-29-72, Cl. 242-180.000.
- Goshima, Takeshi; and Iwawaki, Yasutaka, to Canon Kabushiki Kaisha. Apparatus for presenting audio and visual informations. 3,687,529, 8-29-72, Cl. 352-27.000.
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- Goshima, Takeshi; and Miyasaka, Tooru, to Canon Kabushiki Kaisha. Camera provided with a recording device for a photographed date. 3,703,129, 11-21-72, Cl. 95-1.100.
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- Goslin, Gerald E.; Herschberger, Russell R.; and Mach, George J., to General Motors Corporation. Adjustable rear view mirror assembly. 3,667,718, 6-6-72, Cl. 248-487.000.
- Gosling, Dickinson, to Labatt, John, Limited. End loading twin beverage carton. 3,677,458, 7-18-72, Cl. 229-27.000.
- Gosling, Raymond George; and King, David Henry. Turbulence sensing blood flowmeter. 3,641,994, 2-15-72, Cl. 128-2.05.
- Gosman, Neil W., to Maehr Lesnor Manufacturing Corporation. Tap holder. 3,688,324, 9-5-72, Cl. 10-141.00h.
- Gosnell, Earl J., to Burroughs Corporation. Methods of preparing and composing relief printing member. 3,645,204, 2-29-72, Cl. 101-401.1.
- Gosnell, Earl J.; and Taylor, Jerry H., to Burroughs Corporation. Gravure printing plate making process. 3,675,572, 7-11-72, Cl. 101-401.100.
- Gosnell, Thomas Francis: See—
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- Gosnell, Walter H. Reels for strip material. 3,666,194, 5-30-72, Cl. 242-72.000.
- Gosney, William Milton: See—
Carbajal, Bernard G., III; Gosney, William Milton; and Hall, Lou H., 3,673,679.
- Goss, Alan Patrick: See—
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- Goss, Donald D., to Ideation, Inc. Packaging system. 3,662,514, 5-16-72, Cl. 53-37.
- Goss Gas, Inc.: See—
Goss, Herbert C., 3,648,934.
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- Goss, Harry F.: See—
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- Goss, Herbert C., to Goss Gas, Inc. Welding tip for cutting torch. 3,648,934, 3-14-72, Cl. 239-391.
- Goss, Herbert C., to Goss Gas, Inc. Holding and carrying rack for miniature oxygen and fuel gas tanks. 3,701,463, 10-31-72, Cl. 224-45.00r.

- Goss, John B.; and Stachowiak, John E., to American Aero Engineering Company. Blast cleaning system. 3,690,067, 9-12-72, Cl. 51-11.000.
- Goss, Norman P., 1/2 to Blough, Arthur K. Reduction of solid iron ore to hot metallic iron in a rotary kiln-flash heater-rotary reactor complex. 3,689,251, 9-5-72, Cl. 75-39.000.
- Gossard, Earl E.: See—
Bickel, John E.; Freres, Clemens H.; Gossard, Earl E.; Britt, James E.; Ortwein, Norman R.; and Swanson, Eric R., 3,680,115.
- Gossard, Thomas F., to Standard Kollsman Industries Inc. UHF-VHF varactor tuner amplifying band conversion. 3,696,302, 10-3-72, Cl. 325-432.000.
- Gossel, Hartmut; Merkle, Kurt; Memmel, Ferdinand; and Janousch, Erwin, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pigment preparations to be used in non-aqueous systems and process for their manufacture. 3,684,542, 8-15-72, Cl. 106-308.00q.
- Gosselin, Jean Charles, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for optimizing the penetration speed of a drilling tool driven by a motor whose torque decreases with an increasing running speed and apparatus therefor. 3,658,18, 4-25-72, Cl. 173-1.
- Gosselink, Eugene P., to Procter & Gamble Company. The. Tetraalkyl sulfoximinium salts as cationic bactericides. 3,636,103, 1-18-72, Cl. 260-551.
- Gosselink, Eugene P.; and Laughlin, Robert G., to Procter & Gamble Company. The. Process for synthesizing sulfiminium chloride. 3,654,359, 4-4-72, Cl. 260-551.
- Gossen, B., & Co. GmbH: See—
Pfaffenberger, Erwin; and Forsterlug, Hans, 3,697,179.
- Gossens, Hubert; Kammermeier, Jurgen; and Kloker, Werner, to Farbenfabriken Bayer Aktiengesellschaft. Lightweight building units. 3,679,539, 7-25-72, Cl. 161-159.000.
- Gossens, Peter: See—
Heinen, Peter; Guthmann, Hans; and Gossens, Peter, 3,641,755.
- Gosser, Lawrence Wayne, to Du Pont de Nemours, E. I., and Company. Hydrogenation of 1,3,7-octatriene to 1,6-octadiene and 1,5-octadiene with certain chromium carbonyl catalysts. 3,673,270, 6-27-72, Cl. 260-680.00r.
- Gossie, Mijo A.: See—
Bustaan, Daniel J.; Gossie, Mijo A.; Sundstrom, Roy N.; and Wisner, William R., 3,690,527.
- Gostelow, Daniel William Fredrick, to Bentley Machine Development Company Limited. The. Needle operating means in knitting machines. 3,678,710, 7-25-72, Cl. 66-14.000.
- Gostling, Peter Eric, to Kwikform Limited. Scaffolding for use in building construction. 3,656,580, 4-18-72, Cl. 182-82.000.
- Gostling, Peter Eric, to Kwikform Limited. Builders' scaffolding. 3,707,304, 12-26-72, Cl. 287-111.000.
- Gostomski, Frank T. Cushioned support means. 3,674,104, 7-4-72, Cl. 180-5.00r.
- Gostomski, Lawrence A., to Right-Way Mfg. Corporation. Motorcycle having two tandem driving wheels. 3,638,746, 2-1-72, Cl. 180-25.
- Gosudarstvenny Nauchno-Issledovatel'skiy I Proektny Institut Osnovnoy Khimii: See—
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- Gosudarstvenny Nauchno-Issledovatel'skiy Institut tsvetnykh metallov and Belgorodskiy Kotto-Stroitelny zavod: See—
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- Gosudarstvenny Sojuzny Institut Po Proektirovaniyuagregatov Staliciinogo i Prokatnogo Proizvodstva Dlya Chernou Metallurgii: See—
Chaikin, Boris Semenovich; Kozlov, Lev Ivanovich; Oblasti, Khimki Moskovskoi; Malchenko, Thomas Vasilievich; Mokrushin, Konstantin Dmitrievich; Yarovsky, Lev Volfovich; Maryanchik, Grigory Efimovich; Zhelnov, Boris Stepanovich; Tarasov, Vasily Mikhailovich Trubetskov, Kirill Mikhailovich; Borshevsky, Igor Konstantinovich; and Chermensky, Dmitry Pavlovich, 3,697,058.
- Goswami, Jagadish Chanda: See—
Brenner, Walter; Goswami, Jagadish Chanda; and Rugg, Barry A., 3,663,158.
- Gotal, Joseph; and Conner, Edmond E., to Westinghouse Electric Corporation. Cast-type winding structure for electrical inductive apparatus. 3,705,372, 12-5-72, Cl. 336-182.000.
- Gotaverkens Angtekniska AB (Gotaverken Heat Engineering Co., Ltd.): See—
Ostbo, Nils Axel Ambjorn, 3,638,620.
Ostbo, Nils Axel Ambjorn, 3,638,622.
- Gotch, Henry Edward: See—
Neale, Michael John; and Gotch, Henry Edward, 3,701,475.
- Gotcher, Eugene D.: See—
Peisner, Israel D.; Stol, George H.; and Gotcher, Eugene D., 3,673,969.
- Goteborg, Fagerlund: See—
Apelstrand, Lennart; Goteborg, Fagerlund; and Jar, Stig, 3,687,308.
- Goteborgs Bandvaveri AG: See—
Ivarsson, Nils Ture, 3,692,361.
- Gothard, David O.: See—
Manilla, Charles E.; Honaker, Harold H.; and Gothard, David O., 3,652,235.
Manilla, Charles E.; Honaker, Harold H.; and Gothard, David O., 3,678,567.
- Gothard, Edwin S.; and Calfee, John D., to Monsanto Company. Nylon spunbonded fabric-concrete composite. 3,637,457, 1-25-72, Cl. 161-140.
- Gothard, Sydney Averill, to Vickers Limited. Apparatus for treating refuse. 3,679,142, 7-25-72, Cl. 241-181.000.
- Gothel, Herbert: See—
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- Gothel, Herbert; Feichtinger, Hans; and Tammes, Hans, to Ruhrchemie Aktiengesellschaft. Retarding water evaporation with surface films of oxo alcohols containing orthosilicic acid ester. 3,650,980, 3-21-72, Cl. 252-384.
- Gothel, Herbert; and Feichtinger, Hans, to Ruhrchemie Aktiengesellschaft. Lubricants and power transmission fluids on the basis of carboxylic acid esters. 3,674,692, 7-4-72, Cl. 252-56.00s.
- Gotheridge, John Ernest; Morgan, Jack; and Jago, Edward John, to Fosco International Limited. Method of producing by using insulating pads in the mold. 3,662,809, 5-16-72, Cl. 164-53.
- Goto, Eiichi, to Rikagaku Kenkyusho. Charged-particle-beam focusing and deflecting system utilizing a plurality of electronic lenses for focusing the beam. 3,651,370, 3-21-72, Cl. 315-18.
- Goto, Hachiro: See—
Fukuda, Masao; Goto, Hachiro; Norota, Susumu; and Fujisawa, Yukimasa, 3,679,533.
- Goto, Hachiro, to Teijin Limited. Thermoplastic polyurethanes for adhesives, coatings, and moldings. 3,686,146, 8-22-72, Cl. 260-75.00p.
- Goto, Hiroshi: See—
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Matsushima, Hiroshi; Arimura, Ichiro; Goto, Hiroshi; and Nakao, Yoshikazu, 3,643,151.
- Goto, Jugo: See—
Matsui, Yutaka; Mise, Noritoshi; Goto, Jugo; and Yokoo, Makoto, 3,676,402.
- Goto, Kazuhiro, to GSW Limited-GSW Limitee. Tub washing machine support structure. 3,669,389, 6-13-72, Cl. 248-22.000.
- Goto, Kenjiro. Gas burner nozzle for use in a gas lighter. 3,698,851, 10-17-72, Cl. 431-266.000.
- Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Valve for use in gas fueled cigarette lighters. 3,705,785, 12-12-72, Cl. 431-344.000.
- Goto, Kimio; and Nakamura, Hiroyasu, to Hitachi, Ltd. Random access discrete address system. 3,647,975, 3-7-72, Cl. 179-15.
- Goto, Kunio, to Victor Company of Japan Limited. Continuous scanning magnetic recording and/or reproducing system and apparatus. 3,663,766, 5-16-72, Cl. 179-100.2.
- Goto, Masahiro; Noto, Tetsuo; Kato, Nitsuya; Kimura, Morio; and Watanabe, Tadashi, to Kansai Paint Company, Limited. Underwater anti-fouling coating composition. 3,684,752, 8-15-72, Cl. 260-22.00r.
- Goto, Minoru: See—
Matsuoka, Toshiro; Takeda, Keinosuke; Goto, Minoru; and Miyake, Akira, 3,697,647.
Minagawa, Motonobu; Nakagawa, Kenichi; and Goto, Minoru, 3,673,152.
- Goto, Mutuo: See—
Nakamura, Akihide; Ito, Iko; and Goto, Mutuo, 3,652,525.
- Goto, Nobuo: See—
Miyachi, Sakae; Tanaka, Kazumitsu; and Goto, Nobuo, 3,701,847.
- Goto, Nobuyuki: See—
Iwasaki, Masahiro; Goto, Nobuyuki; Fujisaki, Hiroya; and Niwa, Kunihiko, 3,667,047.
Iwasaki, Masahiro; Goto, Nobuyuki; Fujisaki, Hiroya; and Niwa, Kunihiko, 3,678,390.
- Goto, Tadahiko: See—
Hiratsuka, Michio; Ishii, Jiro; Goto, Tadahiko; and Takeda, Atsuo, 3,681,982.
- Goto, Tadashi, to Hitachi, Ltd. Oxygen densitometer for liquid metals. 3,672,206, 6-27-72, Cl. 73-61.000.
- Goto, Tetsuo: See—
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- Goto, Tokuju: See—
Tsuruta, Motohiro; Kimura, Hiroshi; Koshimo, Akio; Nara, Hirohisa; Goto, Tokuju; Amemiya, Kunio; and Matusaka, Hideki, 3,637,427.
- Goto, Totaro, to Industrial Science & Technology, Agency of. Process for the purification of yttrium by solvent extraction. 3,658,486, 4-25-72, Cl. 23-312.
- Goto, Yasuo; and Taki, Akio, to Nihon Shokuhin Kako Co., Ltd. Process for preparing pulverized feed for animals. 3,655,396, 4-11-72, Cl. 99-9.

- Goto, Yuro. Article handling apparatus. 3,664,522, 5-23-72, Cl. 214-8.5.
- Gotoh, Miyuki, to Nissan Motor Company Limited. Method and apparatus for detecting mispick in loom. 3,678,969, 7-25-72, Cl. 139-370.000.
- Gotoh, Shinji: *See—*
Horie, Tatsuo; Yamamoto, Syunichi; and Gotoh, Shinji, 3,705,204.
- Gotoh, Toshiaki: *See—*
Matsumoto, Shigeru; and Gotoh, Toshiaki, 3,677,605.
- Gotoh, Tsuneo: *See—*
Ito, Masatomo; Miyazawa, Yasuo; and Gotoh, Tsuneo, 3,634,316.
- Gotoh, Tsuneyasu: *See—*
Henmi, Zenzo; Sasaki, Tatsuji; Matsui, Yuji; Maegawa, Harumi; Sato, Yoshihiro; Gotoh, Tsuneyasu; and Komatsu, Masahiro, 3,686,042.
- Gotoh, Yutaro: *See—*
Iijima, Hiroshi; Terasawa, Masaji; Gotoh, Yutaro; and Tokita, Osamu, 3,703,418.
- Gotohda, Masao; Araki, Kunio; Imamura, Shigeoshi; and Shibabe, Sadami, to Japan Atomic Energy Research Institute. Process for the radiation grafting of butadiene and other co-graft monomers onto polyolefin substrates. 3,634,218, 1-11-72, Cl. 204-159.17.
- Gotschel, Hans; and Settele, Helmut, to Wieland-Werke Aktiengesellschaft. Screw connection, more particularly for use in metal window or door frames. 3,680,620, 8-1-72, Cl. 151-41.750.
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- Gotshall, William W. Using ground carbon in oil phase masterbatching. 3,640,940, 2-8-72, Cl. 260-33.6.
- Gotshall, William W. Method of coating finely ground carbon with oils. 3,642,512, 2-15-72, Cl. 106-307.
- Gotshall, William W. Reinforcing agent from scrap rubber char. 3,644,131, 2-22-72, Cl. 106-307.
- Gotshall, William W., to Marathon Oil Company. Pelleting of oil-coated carbon particles. 3,671,613, 6-20-72, Cl. 264-115.000.
- Gotshall, William W., to Marathon Oil Company. Finely divided carbon and the preparation thereof. 3,699,216, 10-17-72, Cl. 423-449.000.
- Gotshall, William W., to Marathon Oil Company. Process for the preparation of elastomeric composition containing methanol treated carbon black. 3,704,276, 11-28-72, Cl. 260-41.50r.
- Gott, Ernst: *See—*
Umbach, Wilfried; Mehren, Rainer; Stein, Werner; and Gott, Ernst, 3,662,003.
- Gott, Hans: *See—*
Ritter, Josef; Gott, Hans; Ritter, Klaus; and Ritter, Gerhard, 3,676,631.
- Ritter, Klaus; Gott, Hans; Ritter, Josef; and Ritter, Gert, 3,676,632.
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- Gott, Hans; Ritter, Klaus; and Ritter, Josef, to EVG Entwicklungs- und Verwertungsgesellschaft m.b.H. Electric resistance welding machines. 3,692,970, 9-19-72, Cl. 219-56.000.
- Gotta, Hans: *See—*
Wagenknecht, Rudolf; Gotta, Hans; Spei, Brigitte; and Gottwald, Karl-Heinz, 3,681,148.
- Gottauf, Georg, to Stahlgruber Otto Gruber & Company. Spike for motor vehicle tires. 3,667,528, 6-6-72, Cl. 152-210.000.
- Gotte, August. Vacuum flotation device. 3,705,650, 12-12-72, Cl. 210-221.000.
- Gotte, Ernst: *See—*
Walter, Dieter; Fries, Walter; and Gotte, Ernst, 3,673,096.
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- Gotte, Ernst; and Heyden, Rudi, to Henkel & Cie G.m.b.H. Skin protective washing and cleansing compositions. 3,649,544, 3-14-72, Cl. 252-152.
- Gottesman, Martin: *See—*
Pitchon, Esra; Gottesman, Martin; and Meier, Robert W., 3,655,398.
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- Gottfried Bischoff Bau Kompl. Gasreinigungs- und Wasser-ruckkulanlagen KG: *See—*
Hausberg, Gerhard; and Hegemann, Karl-Rudolf, 3,631,656.
- Gottfried, Reuter; and Ajfro, Fortunato S., to Bucyrus-Erie Company. Control circuit and lock valve for pivot axle lockout cylinders. 3,687,227, 8-29-72, Cl. 180-1.00r.
- Gottily, Arthur L., to Monsanto Company. Bobbin handle. 3,650,493, 3-21-72, Cl. 242-118.3.
- Gottlieb, Alvin J.; Neyens, Wayne E.; Smith, Robert T.; and Garbark, Roman F., to Gottlieb, D., & Company. Two-player pinball machine. 3,675,927, 7-11-72, Cl. 273-119.00a.
- Gottlieb Binder Holzgerlingen: *See—*
Waller, Norbert, 3,654,054.
- Gottlieb, D., & Company: *See—*
- Gottlieb, Alvin J.; Neyens, Wayne E.; Smith, Robert T.; and Garbark, Roman F., 3,675,927.
- Gottlieb, David: *See—*
Shier, Wayne Thomas; Rinehart, Kenneth L., Jr.; and Gottlieb, David, 3,669,838.
- Gottlieb, Louis. Mobile trash collecting and incinerating apparatus. 3,635,176, 1-18-72, Cl. 110-8.
- Gottlieb, Robert. Popcorn popper. 3,665,839, 5-30-72, Cl. 99-238.6.
- Gottling, James G.: *See—*
Aponick, Anthony A., Jr.; and Gottling, James G., 3,680,204.
- Gottlob, Heinrich: *See—*
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- Gotttron, Richard N.; and Gaylord, Wilmer, to United States of America, Army. Pneumatic thermometer. 3,706,227, 12-19-72, Cl. 73-839.00a.
- Gottschalk, Lawrence A., to Union Carbide Corporation. Combination label for packaged product and printed on removal decal. 3,638,340, 2-1-72, Cl. 40-2.
- Gottschall, Gernot, to Morat, Franz, G.m.b.H., Firma. Film-driving roller with device for stopping the drive mechanism if the film is broken. 3,674,192, 7-4-72, Cl. 226-11.000.
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- Gottsching, Herbert, to Mayer & Cie. Pattern installation for circular knitting machines. 3,653,229, 4-4-72, Cl. 66-50.
- Gottschlich, Alois; and Leverenz, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Disazo dyestuffs. 3,705,145, 12-5-72, Cl. 260-152.000.
- Gottwald, Karl-Heinz: *See—*
Wagenknecht, Rudolf; Gotta, Hans; Spei, Brigitte; and Gottwald, Karl-Heinz, 3,681,148.
- Gottwald, Leo, K.G.: *See—*
Ejler, Peter; and Sprave, Klaus, 3,693,742.
- Gottweis, Gert; Herrlich, Michael; Klas, Gunther; Schober, Joachim; Thiede, Peter; and Zachaus, Eberhard, to Ingenieurburo fur Rationalisierung der Suss- und Dauerbackwarenindustrie. Apparatus for packing bags in boxes or cartons. 3,676,978, 7-18-72, Cl. 5-59.00r.
- Gotz, Eckart: *See—*
Wohr, Rolf; and Gotz, Eckart, 3,702,962.
- Gotz, Hans: *See—*
Wilfert, Karl; and Gotz, Hans, 3,635,517.
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- Gotz, Manfred: *See—*
Failli, Amedeo; and Gotz, Manfred, 3,707,472.
- Fieter, Kurt; Gotz, Manfred; Oliver, James T.; and Zeile, Karl, 3,635,974.
- Gotze, Johannes: *See—*
Kampfer, Helmut; Riester, Oskar; and Gotze, Johannes, 3,660,103.
- Gotzeberger, Rudibert, to Flitsch, Ernst. Circulating valves. 3,640,311, 2-8-72, Cl. 137-137.4.
- Goulard, Jacques: *See—*
Chevet, Robert; and Goulard, Jacques, 3,695,936.
- Goud, Eric G.: *See—*
Searle, Eric H.; and Goud, Eric G., 3,648,164.
- Goudy, Clarence H. Water vehicle. 3,650,234, 3-21-72, Cl. 114-16.
- Goudy, William E., to Armco Steel Corporation. Folding crane boom. 3,664,516, 5-23-72, Cl. 212-46.
- Goue, Bernard; Guitard, Louis; and Edon, Claude, to Compagnie Generale d'Electricite. Method of activating nickel based catalysts. 3,645,799, 2-29-72, Cl. 148-2.
- Gouger, Leonard Joseph: *See—*
Arlington, William L.; Gannt, Wayne Carlton; and Gouger, Leonard Joseph, 3,671,903.
- Gough, Geoffrey R.: *See—*
Maguire, Mary H.; Gough, Geoffrey R.; and Michal, Frank, 3,678,162.
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- Gough, Stanley T. D., to Mobil Oil Corporation. Use of meta-substituted alkyl or alkenyl benzoic acid esters as selective post-emergence carbgrass herbicides. 3,681,045, 8-1-72, Cl. 71-107.000.
- Gough, Warren G., to Sylvania Electric Products, Inc. Digital communication system. 3,678,391, 7-18-72, Cl. 325-55.000.
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- Gouirand, Rene, to Mercadante, Joseph. Air suspension with saddle members. 3,692,325, 9-19-72, Cl. 280-104.50a.
- Goujard, Marie Pierre, to Compagnie Gervais Danone Hauts de Seine. Manufacture of cheese curd. 3,698,918, 10-17-72, Cl. 99-116.000.
- Goukon, Atushi: *See—*
Hattori, Kenichi; Goukon, Atushi; Komeda, Yoshiaki; and Mori, Hiroshi, 3,637,580.

- Goulardis, George Constantine, to American Cyanamid Company. Process for oxidizing 2-mercaptobenzothiazole. 3,654,297, 4-4-72, Cl. 260-306.5.
- Gould, Bruce Michael, "Automatic" Sprinkler Corporation of America. Apparatus and process for treating hides. 3,670,534, 6-20-72, Cl. 69-30.000.
- Gould, Eric G.: *See—*
Davis, Edward P.; and Gould, Eric G., 3,649,729.
- Gould, Francis E.: *See—*
Shepherd, Thomas H.; and Gould, Francis E., 3,632,416.
- Shepherd, Thomas H.; and Gould, Francis E., 3,635,756.
- Shepherd, Thomas H.; and Gould, Francis E., 3,660,561.
- Shepherd, Thomas H.; and Gould, Francis E., 3,670,073.
- Shepherd, Thomas H.; and Gould, Francis E., 3,674,901.
- Shepherd, Thomas H.; and Gould, Francis E., 3,695,921.
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Biddick, Royce E., 3,647,543.
- Hollar, Bartley Douglass, 3,637,078.
- Sabatino, Anthony, 3,643,834.
- Gould Inc., mesne: *See—*
Fedor, Robert J., 3,651,304.
- Herrmann, Frank A.; and Shabad, Zygmund, 3,683,290.
- Vignini, Walter R., 3,701,862.
- Wilson, Gardner P., 3,675,333.
- Gould Ionics, Inc.: *See—*
Owens, Boone B.; and Humphrey, James R., 3,661,647.
- Owens, Boone B.; and Oxley, James E., 3,663,299.
- Gould, Irwin M.: *See—*
Frystak, Richard; and Gould, Irwin M., 3,644,033.
- Gould, Joseph C.; and Hayes, Robert L. Glove manufacturing. 3,694,117, 9-26-72, Cl. 425-93.000.
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Richardson, Charles Delton; Corsentino, Robert John, Jr.; and Gould, Oliver Maxwell, 3,658,307.
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Deaton, Homer W.; Gould, Robert R., Jr.; and Smith, Roy R., 3,636,309.
- Gould, Wallace E.: *See—*
Leopold, Wilbur R.; Hackman, Frank C.; Floren, Carl E.; and Gould, Wallace E., 3,687,492.
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Parker, Edward H.; Gould, William F.; and Alley, John H., 3,682,078.
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Mao, George W., 3,647,545.
- Marsh, Frederick L., 3,639,175.
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Munro, Robert Gordon; and Hale, Rodney Barker, 3,631,603.
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Bevan, Robert H.; and Buffone, Vincent D., 3,676,014.
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Byrns, Robert E.; Gouldthorpe, Hugh W.; and Lamison, Vernon L., 3,693,117.
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Bromley, Leo L.; and Williams, James B., 3,635,401.
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Gourdine, Meredith C.; Von Voros, Geza; and Chiang, Ta Kuan, 3,650,092.
- Gourdine, Meredith C., 3,673,463.
- Gourdine, Meredith C.; and Sayers, Howard A., 3,704,572.
- Hanley, John P.; and Seaman, Robert W., 3,683,236.
- Rotsky, Bernard A.; and Dunne, Gilbert M., Jr., 3,701,236.
- Gouret, Claude C.: *See—*
Fauran, Claude P.; Turin, Michel J.; Raynaud, Guy M.; and Gouret, Claude C., 3,658,821.
- Gouret, Claude J.: *See—*
Douzon, Colette A.; Huguet, Gerard J.; Fauran, Claude J.; Raynaud, Guy M.; and Gouret, Claude J., 3,654,298.
- Fauran, Claude P.; Raynaud, Guy M.; Gouret, Claude J.; and Douzon, Colette A., 3,642,806.
- Fauran, Claude P.; Raynaud, Guy M.; Duzon, Colette A.; and Gouret, Claude J., 3,663,572.
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Dinwoodie, Andrew Harper; and Gourlay, George, 3,637,858.
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Pinet, Andre E.; and Gouttebel, Raymond P., 3,641,272.
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Deman, Pierre; and Gouyet, Jean Pierre, 3,648,248.
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Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Ilevich; Zhabin,

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Noar, Raymond; Tuffias, Robert H.; Gow, Kenneth P.; and Drew, Thomas A., 3,706,231.
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Gower, Howard D.; Gower, Bob G.; and Young, David W., 3,645,897.
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Heal, Jeremy C.; Snape, Raymond; and Gower, Philip B., 3,660,857.
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Gowin, Grover Z., 3,651,757.
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Kallel, Allen; and Gowing, Arthur F., 3,690,244.
- Gowings, Dan D.: See—
Neff, Ray A.; and Gowings, Dan D., 3,705,405.
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Goynne, Thomas S., 3,698,830.
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Van Moorsel, Frans, 3,692,954.
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Dunkelis, Evald, 3,653,402.
- Dunkelis, Evald, 3,665,958.
- Dunkelis, Evald, 3,699,999.
- Reip, Raymond G., 3,696,837.
- Grabauskas, Joseph J., to Union Carbide Corporation. Process for producing a formable collagen dispersion. 3,684,732, 8-15-72, Cl. 252-311.000.
- Grabe, Christiaan Albertus Johannes: See—
Weststrate Jan; and Grabe, Christiaan Albertus Johannes, 3,699,220.
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- Grabel, Lawrence: See—
Bedenk, William T.; and Grabel, Lawrence, 3,680,473.
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- Grabner-Rogg, Inc.: See—
Martin, Harold B.; and Rogg, Herman O., 3,698,276.
- Grabhofer, Herbert; Himmelmann, Wolfgang; and Glabisch, Dietrich, to Agfa-Gevaert Aktiengesellschaft. Gelatine-containing

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Cohen, Edward M.; Grabowski, Edward J. J.; and Aczel, Rezso, 3,670,083.
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Anderson, Elvin L.; and Graboyes, Harold, 3,692,834.
- Grabske, John P. Material spreader. 3,703,260, 11-21-72, Cl. 239-666.000.
- Grace, Charles: See—
Coll, Edward T.; Braschwitz, Harold J.; Grace, Charles; Manchester, Michael J.; and Hunter, Stephen A., III, 3,638,179.
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- Grace, W. R., & Co.: See—
Artz, Kenneth W., 3,651,930.
- Artz, Kenneth W., 3,675,811.
- Bailey, Robert J., 3,650,746.
- Baskin, Herbert A.; and Funk, Andrew B., 3,635,725.
- Bell, Sydney George Frederick, 3,668,817.
- Benning, Calvin J., 3,666,133.
- Blazek, James J.; Baker, Richard W.; and Wilson, Charles P., Jr., 3,660,274.
- Bleyle, Merrill, 3,682,224.
- Bowden, James G., III, 3,652,376.
- Brennan, William R.; and Sabatelli, Philip M., 3,637,509.
- Brenner, Mannie; Chase, Fred L.; and Leydon, Arthur J., 3,676,386.
- Brent, John T., Jr.; and Page, Jack S., 3,642,456.
- Breslauer, Charles S., 3,705,837.
- Briggs, Warren S.; and Ciapetta, Frank G., 3,661,806.
- Brillinger, James H., 3,637,556.
- Butcher, Howard J.; and Simpson, Edgar Alan, 3,681,017.
- Button, Calvin L.; and Woods, Waldemar E., 3,663,672.
- Clark, Elton L., 3,636,214.
- Crotty, Homer Edward, 3,639,283.
- Daniels, David A.; Orem, Rowland L., Jr.; and Lard, Edwin E., 3,668,139.
- Daniels, David A., 3,679,729.
- Daniels, David A., 3,700,957.
- Daniels, David A.; and Wendler, Kenneth T., 3,701,730.
- Dolbear, Geoffrey Emerson, 3,693,071.
- Dougherty, Charles, 3,705,009.
- Dungan, Paul, 3,702,789.
- Eburn, William H., Jr., 3,702,098.

- Edmonston, Robert P.; Gribens, Joel A.; and Simons, Charles W., 3,677,993.
- Edmonston, Robert P.; Lefforge, John W.; and Keller, George C., 3,695,477.
- Elliott, Curtis Homer, Jr.; and Mc Daniel, Carl Vance, 3,639,099.
- Estes, Philip W., 3,690,924.
- Fallowfield, Derek, 3,676,159.
- Frank, Victor S.; Lard, Edwin W.; and Stahly, Eldon E., 3,641,193.
- Frank, Victor S.; and Gush, Donald P., 3,645,730.
- Frank, Victor S.; Stahly, Eldon E.; and Rice, Rip G., 3,676,311.
- Giraudi, Giorgio, 3,699,742.
- Gray, Roland H., Jr., 3,674,556.
- Gray, Roland H., Jr., 3,674,557.
- Griesheimer, George T.; and Chance, Joe L., 3,686,373.
- Guthrie, James L., 3,640,923.
- Guthrie, James L.; and Rendulic, Francis J., 3,694,241.
- Hurley, Forrest R.; Tecotzky, Melvin; and Vanik, Milton C., 3,691,087.
- Hurst, John, 3,706,264.
- Hwa, Chih M., 3,639,278.
- Jefferson, Donald E.; and Marans, Nelson S., 3,681,131.
- Jefferson, Donald Edward, 3,639,364.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,653,959.
- Kehr, Clifton L.; Wszolek, Walter R.; and Lundsager, Christian B., 3,660,217.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,661,744.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,662,023.
- Kehr, Clifton L.; Wszolek, Walter R.; and Werber, Frank X., 3,666,461.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,676,195.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,676,283.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,697,395.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,697,396.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,697,397.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,697,402.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,697,621.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,697,622.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,699,084.
- Kehr, Clifton L.; and Wszolek, Walter R., 3,700,574.
- Kehr, Clifton Leroy; and Guthrie, James Leverette, 3,650,802.
- Ketley, Arthur D.; and Cogliano, Joseph A., 3,661,575.
- Ketley, Arthur Donald; Kehr, Clifton Leroy; and Touchette, Jennie Lee, 3,704,125.
- Kirk, Charles C.; Ferington, Thomas E.; and Gregorian, Razmic S., 3,668,038.
- Kolbe, John L.; and Legal, Casimer C., Jr., 3,650,727.
- Kraus, John W.; and Legal, Casimer Claudius, Jr., 3,637,348.
- Lard, Edwin W.; and White, Addison C., 3,654,073.
- Lard, Edwin W., 3,662,022.
- Lard, Edwin W., 3,701,721.
- Larsen, Donald W., 3,645,982.
- Laugle, Millard J.; and Corbett, William J., 3,634,338.
- Lee, Hanju; and Chi, Dongsuk, 3,679,604.
- Legal, Casimer C., Jr., 3,649,175.
- Lightfoot, David Reginald, 3,657,038.
- Los, Lenore; Wood, Louis L.; and Marans, Nelson S., 3,634,364.
- Los, Lenore J., 3,676,440.
- Lundsager, Christian B., 3,637,419.
- Lundsager, Christian B., 3,656,999.
- Lundsager, Christian B., 3,660,088.
- MacCragh, Adolfo, 3,672,875.
- Magee, John S., Jr.; and Briggs, Warren S., 3,650,988.
- Maher, Philip Kenerick; Albers, Edwin W.; and McDaniel, Carl Vance, 3,671,191.
- Marans, Nelson S.; and Frank, Victor S., 3,646,154.
- McDaniel, Carl V.; Baker, Richard William; and Rundell, Clark Ace (said McDaniel and said Rundell assors. to), 3,692,665.
- McDaniel, Carl Vance; Maher, Philip Kenerick; and Pilato, Joseph Michael, 3,650,687.
- McKenney, Robert Lee, Jr.; and Block, Jacob, 3,673,101.
- McKinney, James C., 3,694,995.
- Merrill, Edward W.; and Pikarsky, Jacob M., 3,696,956.
- Morgan, Charles R.; and Daniels, David A., 3,679,728.
- Moyer, Joseph D., 3,655,754.
- Nutter, James I., 3,646,129.
- Owen, Dave L., 3,648,433.
- Parthasarathy, R.; Scherzer, Julius; and Warthen, John L., 3,652,459.
- Parthasarathy, R.; and Ciapetta, Frank G., 3,666,804.
- Patil, Arvind S., 3,661,755.
- Patil, Arvind S.; Veltman, Preston L.; Loder, Edwin R.; Sabatelli, Philip M.; and Sarge, Carmen R., 3,682,190.
- Patil, Arvind S.; and Ashby, George E., 3,698,891.
- Patil, Arvind Shankar, 3,635,735.
- Pearl, David L.; Waller, John G.; and Head, Beverly P., Jr., 3,664,574.
- Pearl, David L.; Harris, George E.; Waller, John G.; and Head, Beverly P., Jr., 3,690,986.
- Perdue, Richard R.; Hoagland, Le Roy F.; and Kuehne, Richard O., 3,694,991.
- Peterson, John B., 3,701,282.
- Pieters, William Johan Meindert; Freil, John; and Anderson, Robert Bernard, 3,657,157.
- Pieters, William Johan Meindert; Freil, John; and Anderson, Robert Bernard, 3,674,707.
- Popper, Felix B.; and Levesque, Albert H., 3,644,444.
- Preston, Leslie Raymond; Pope, Victor James; Stagg, John; and Green, Ronald Sydney, 3,681,177.
- Price, Raymond E.; and Tirrell, Clifford F., 3,639,968.
- Pruitt, Larry J., 3,648,740.
- Reid, Philip L.; and Holcombe, Edward L., 3,693,314.
- Reid, Philip L., 3,699,745.
- Rettew, Richard R.; Wirth, David G., Jr.; and Glemza, Riman-tas, 3,702,882.
- Rettew, Richard Raymond; Wirth, David Griffith, Jr.; and Levy, Newton, Jr., 3,655,330.
- Roberts, John T.; and Reid, Philip L., 3,648,430.
- Robinson, David W., 3,686,134.
- Ross, William C., 3,649,439.
- Ross, William C., 3,663,340.
- Ross, William C., 3,673,023.
- Ross, William C., 3,687,783.
- Roswell, David F.; Kramm, David E.; Wood, Louis L.; and Steadman, Thomas R., 3,644,423.
- Rundell, Clark Ace; Duecker, Heyman Clarke; and McDaniel, Carl Vance, 3,635,200.
- Scanlon, Patricia M.; and Young, Elwyn Richard, 3,636,015.
- Scanlon, Patricia M.; and Young, Elwyn Richard, 3,641,103.
- Scanlon, Patricia M.; and Thunberg, Jon C., 3,689,544.
- Scherzer, Julius; and Albers, Edwin W., 3,676,368.
- Sherwood, Robert Edward, 3,638,389.
- Simons, Charles W.; and Gribens, Joel A., 3,702,310.
- Smith, Jean G.; and Fitch, Frederick T., 3,697,435.
- Stahly, Eldon E.; and Lard, Edwin W., 3,657,387.
- Sternau, Martin M., 3,701,234.
- Sterrett, Robert W.; and Jacob, Francis J., 3,677,874.
- Tangredi, Albert Joseph; and Zuckerman, Marc Robert, 3,670,947.
- Taylor, Monroe F., 3,660,205.
- Taylor, Monroe F., 3,675,767.
- Thunberg, Jon C.; and Philbrook, James E., 3,699,214.
- Triggiani, Leonard V.; and Sanchez, Moises G., 3,671,453.
- Tsuk, Andrew G., 3,637,521.
- Tsuk, Andrew G.; and Kirk, Charles C., 3,702,800.
- Velten, Terrance J., 3,698,859.
- Warthen, John L.; and Cheavens, Thomas H., 3,669,624.
- Welch, Vergil B., Jr., 3,670,646.
- Wessells, Forrest A.; and Gush, Donald P., 3,661,660.
- Wessells, Forrest A.; and Gush, Donald P., 3,702,795.
- Wynall, Milton E., 3,660,302.
- Woodard, Dudley Gibson, 3,642,735.
- Woodruff, Edward T.; and Andersen, Viggo S., 3,704,169.
- Woodruff, Edward T.; and Andersen, Viggo S., 3,706,599.
- Yeshin, Leon, 3,658,529.
- Young, William E.; and Jezuit, Arthur D., 3,706,174.
- Zimmer, Austin A., 3,679,477.
- Grace, W. R., & Co., mesne: See—
Miller, Wesley W.; Litschi, Gerold; and Bixler, Warren A., 3,635,711.
- Grachev, Jury Petrovich: See—
Demidov, Vladimir Vasilievich; Goldstein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov Nikolai Nikolaevich; Purnalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and rits, Leonid Borisovich, 3,683,683.
- Grachev, Leonid Palovich: See—
Duckhinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosifovich; Anikanov, Nikolai Ivanovich; and Grachev, Leonid Palovich, 3,683,586.
- Grachev, Leonid Pavlovich: See—
Dichinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosifovich; Anikanov, Nikolai Ivanovich; Grachev, Leonid Pavlovich; and Frumkin, Mikhail Evseevich, 3,702,186.
- Gracia, Albert J.; Reilly, Patrick J.; and Walters, Sandra J., to Goodyear Tire & Rubber Company, The. Process for irradiating synthetic rubber to improve green strength. 3,644,186, 2-22-72, Cl. 204-159.2.
- Gracia, Eberto. Arrangement for forming a water shield to extinguish fires in water covered areas. 3,685,584, 8-22-72, Cl. 169-2.00r.

Gracia, Robert Francis: *See—*
Gallet, Jacques Henri; and Gracia, Robert Francis, 3,640,717.
Gracie, John D. Receptacle for stringed musical instrument. 3,680,820, 8-1-72, Cl. 248-314.000.
Graco Inc.: *See—*
Fahlin, James R.; and Hagfors, Gerald D., 3,670,967.
Larson, James H., 3,633,828.
Larson, James H., 3,669,516.
Parson, Ronald F.; Sherman, Richard M.; and Webb, Robert M., 3,667,674.
Sherman, Richard M.; and Webb, Robert M., 3,667,675.
Szasz, Imre, 3,698,636.
Graco Inc., *mesne: See—*
Smead, Robert G.; and Bentsen, Louis J., 3,672,569.
Walberg, Arvid C., 3,637,420.
Gracon, Andrew; and Tinnerman, George A., said Gracon assor. to said Tinnerman, George A. Structural retainer clip. 3,703,794, 11-28-72, Cl. 52-506.000.
Graddy, Willard E.: *See—*
Anderson, Willis H.; and Graddy, Willard E., 3,691,323.
Graddy, Willard E.; and Anderson, Willis H., to General Motors Corporation. Electrical connector assembly. 3,701,085, 10-24-72, Cl. 339-92.00m.
Gradeff, Peter S.: *See—*
Meuly, Walter C.; and Gradeff, Peter S., 3,668,255.
Gradeff, Peter S.; and Finet, Bernard, to Rhodia Inc. Process for esterification of tertiary terpenic alcohols. 3,661,978, 5-9-72, Cl. 260-486.
Gradeff, Peter S.; and Bertrand, Claude, to Rhodia Inc. Monoalkylation of unsubstituted dihydric phenols with lower alkyl chlorides using alkali metal carbonates or bicarbonates as condensing agent. 3,689,570, 9-5-72, Cl. 260-613.00d.
Gradisar, Ivan A. Partial weight bear warning device. 3,702,999, 11-14-72, Cl. 340-272.000.
Gradishar, Frederick J. Thermometric devices. 3,688,582, 9-5-72, Cl. 73-371.000.
Gradishar, Frederick John: *See—*
Borecki, William Joseph; and Gradishar, Frederick John, 3,638,786.
Gradko Glass Laboratories, Inc.: *See—*
Grady, Dennis R., 3,676,076.
Grado, Joseph F. Flux-bridging stereophonic pickup. 3,683,128, 8-8-72, Cl. 179-100.410.
Grado, Joseph F. Toroidal armature stereophonic pickup. 3,694,586, 9-26-72, Cl. 179-100.41k.
Gradov, Oleg Borisovich: *See—*
Karpman, David Bentsionovich; Boris, Volkovich; Konovalov, Spivak Leonidovich; Bednarchuk, Jury Vladimirovich; Chigirinsky, Alexander Abramovich; Ugrjumov, Leonid Vasilievich; Glider, Evgeny Khaimovich; and Gradov, Oleg Borisovich, 3,639,794.
Konovalov, Boris Leonidovich; Kildishev, Vasily Semenovich; Kaplunov, Vadim Borisovich; Tokarev, Vladimir Ivanovich; Spivak, Boris Volkovich; Byaly, Boris Ilich; Chigirinsky, Alexander Abramovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kariashvsky, Pavel Yakovlevich; and Cheremisov, Ivan Yakovlevich, 3,683,220.
Konovalov, Boris Leonidovich; Spivak, Boris Volkovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kildishev, Vasily Semenovich; and Stanislavsky, Lazar Yankelevich, 3,683,221.
Konovalov, Boris Leonidovich; Glider, Evgeny Khaimovich; Chigirinsky, Alexander Abramovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; and Spivak, Boris Volkovich, 3,686,522.
Gradwohl, Donald R.; and Neal, Archie E., to Love, J. E., Company. Harvesting reel. 3,703,060, 11-21-72, Cl. 56-226.000.
Grady, Betty Jane: *See—*
Grady, John H., 3,645,708.
Grady, Dennis F.: *See—*
Carbo, Jerry A.; and Grady, Dennis F., 3,670,477.
Grady, Dennis R., to Gradko Glass Laboratories, Inc. Disposable container. 3,676,076, 7-11-72, Cl. 23-292.000.
Grady, Guido O., to Cities Service Oil Company. In situ retorting and hydrogenation of oil shale. 3,692,110, 9-19-72, Cl. 166-245.000.
Grady, James C., to Gulf Oil Corporation. Method of retrieving marine life and mineral specimens from ocean's deepest parts. 3,683,699, 8-15-72, Cl. 73-421.00r.
Grady, James J.: *See—*
McQuarrie, Alexander M.; and Grady, James J., 3,689,837.
Grady, John H.; deceased (by Grady, Betty Jane; executrix), to International Steel Slag Corporation. Steel slag handling system and method for using. 3,645,708, 2-29-72, Cl. 65-19.
Graeber, Ralph P.: *See—*
Frazier, Francis; and Graeber, Ralph P., 3,650,613.
Graef, Arnold R., to Educational Tools, Inc. Circle maker apparatus. 3,683,505, 8-15-72, Cl. 33-27.00b.
Graef, Kurt, to Ford Motor Company. Ride height adjustment system for a motor vehicle. 3,687,481, 8-29-72, Cl. 280-124.000.

Graefen, Hubert; and Kuron, Dieter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Lead alloys having improved corrosion resistance. 3,664,831, 5-23-72, Cl. 75-166.
Graefje, Heinz; and Flickinger, Erich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of pure 2-ethyl hexanol by three stage distillation. 3,703,444, 11-21-72, Cl. 203-78.000.
Graesser, R. Limited: *See—*
Coleby, John, 3,649,209.
Graf, Armin. Storage battery. 3,664,875, 5-23-72, Cl. 136-134.
Graf, Carlton E., to General Electric Company. Firing signal transmission control means for inverter circuits. 3,684,936, 8-15-72, Cl. 318-227.000.
Graf, Carlton E.; and Volkmann, Werner K., to General Electric Company. Methods of inverter voltage control by superimposed chopping. 3,694,718, 9-26-72, Cl. 318-227.000.
Graf, Carlton Eugene; Skogsholm, Einar Aasen; and Volkmann, Werner Karl, to General Electric Company. Commutation control for inverter circuits. 3,641,421, 2-8-72, Cl. 321-12.
Graf, Eckhart, to Benzinger, Ernst, Kontrolluhrenfabrik, Fried, Firma. Cam operated program mechanism with mechanical vibratory actuating means. 3,678,227, 7-18-72, Cl. 200-38.00r.
Graf, Edwin H. Lunch boxes with carrier attachments. 3,648,830, 3-14-72, Cl. 206-4.
Graf, Edwin H. Auxiliary carrier for portable boxes. 3,667,646, 6-6-72, Cl. 220-85.00r.
Graf, Edwin H. Auxiliary carrier for portable boxes. 3,675,814, 7-11-72, Cl. 220-85.00r.
Graf, Felix; and Wirz, Armin, to Rieter Machine Works, Ltd. Draw-roll and temperature gauge for draw-twisting, draw-winding and spin-draw-winding machines. 3,632,947, 1-4-72, Cl. 219-10.61.
Graf, Felix, to Rieter Machine Works Ltd. Device for reducing contact pressure of a bobbin contacting a drive drum of a thread winding arrangement. 3,661,334, 5-9-72, Cl. 242-18.
Graf, Fritz; and Koenig, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of furans by reaction of an oxazole with an acetylene compound. 3,706,770, 12-19-72, Cl. 260-346.10r.
Graf, George W.: *See—*
Adams, Albert C.; Crosby, John J.; and Graf, George W., 3,685,759.
Graf, Hans; and Riffel, Dieter, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Wetting agent-containing pigment composition. 3,663,285, 5-16-72, Cl. 106-308.00q.
Graf, Horst: *See—*
Bertsch, Hanns F.; Schlachtberger, Ottmar; and Graf, Horst, 3,635,013.
Graf, Josef: *See—*
Schlegel, Franz; and Graf, Josef, 3,687,523.
Graf, Peter E., to Chevron Research Company. Aqueous set initiators for slurry seals. 3,695,152, 10-3-72, Cl. 94-23.000.
Graf, Robert E.: *See—*
Deeg, Emil W.; and Graf, Robert E., 3,674,530.
Graf, Rudolf F.: *See—*
Whalen, George J.; and Graf, Rudolf F., 3,681,753.
Graf, Siegfried: *See—*
Udden, Per Edward Carl; Engman, Bert Hjalmar; and Graf, Siegfried, 3,664,450.
Graf, Stefano, to RCA Corporation. Amplifier using bipolar and field-effect transistors. 3,644,838, 2-22-72, Cl. 330-3.
Graf, Stefano A.: *See—*
Keller, Jean-Paul; and Graf, Stefano A., 3,649,887.
Graf, Stefano Arturo, to RCA Corporation. Reference voltage source. 3,648,153, 3-7-72, Cl. 323-1.
Graf, Ulrich Werner: *See—*
Crabbe, Pierre; and Graf, Ulrich Werner, 3,682,984.
Graf, Wilfried; and Schmid, Erich, to Ciba-Geigy Corporation. Five and six membered hetero S and hetero N fused ring compounds. 3,646,022, 2-29-72, Cl. 260-243.
Graff, Charles Russell: *See—*
Hilton, Joseph Lawrence; Graff, Charles Russell; and Cavin, Lewis Fred, 3,646,766.
Hilton, Joseph Lawrence; Graff, Charles Russell; and Cavin, Lewis Fred, 3,690,388.
Graff, David F.: *See—*
Anderson, Harold C.; and Graff, David F., 3,697,804.
Graff, Donald E. Method and apparatus for cutting curbstones and the like. 3,649,071, 3-14-72, Cl. 299-41.
Graff, Elmer, to Canadian Brass Limited. Copper compression ring. 3,687,494, 8-29-72, Cl. 285-341.000.
Graff, Jack; and Dora, Ralph A., to Packard Instrument Company, Inc., *mesne*. Reactor. 3,677,706, 7-18-72, Cl. 23-230.00r.
Graff, Jerry C., to Schlumberger Technology Corporation. Well jaw with externally operable trip release. 3,684,042, 8-15-72, Cl. 175-302.000.
Graff, Kenneth W., to Atlas Chemical Industries, Inc. Surfactants for solvent/water systems and textile treating compositions. 3,658,717, 4-25-72, Cl. 252-355.
Graff, Richard; and Holm, Svend A. Automatic door control unit. 3,662,229, 5-9-72, Cl. 317-148.50r.
Graff, Russell M. Rotary valves. 3,633,797, 1-11-72, Cl. 222-194.
Graff, Stuart L.: *See—*

Johnson, Marvin F. L.; and Graff, Stuart L., 3,637,524.
Graff, William A.; and Kohut, Jaroslaw, to General Electric Company. Seal glasses. 3,669,698, 6-13-72, Cl. 106-54.000.
Graff, William P.: *See—*
Granzow, Daniel B.; Gawron, Stanley A.; Graff, William P.; and Swain, Pervis A., 3,632,201.
Graff, William R., to Simplimatic Engineering Co. Missing container detector. 3,678,254, 7-18-72, Cl. 235-92.0pk.
Graff, William S.: *See—*
Ainslie, Norman G.; Cheroff, George; Graff, William S.; Howard, James Kent; and Ross, Rupert F., 3,695,855.
Graffeo, Joseph Victor, Jr.; Mason, Bertran W., Jr.; and Wells, Wallace Ogden, to Texas Instruments, Incorporated. Sputtering system. 3,664,948, 5-23-72, Cl. 204-298.
Graffman, Johan H.: *See—*
Backman, Sture Anders; and Winquist, Knut Ludvig, 3,645,648.
Grafist System AB: *See—*
Kroopp, Karl-Gunnar, 3,672,710.
Grafius, Gerald R., to Automatic Devices, Inc. Parts gager. 3,655,042, 4-11-72, Cl. 209-91.
Graflex, Inc.: *See—*
McFadden, Robert N.; and Blaakman, Frank L., 3,680,754.
Graflex, Inc., *mesne: See—*
Balmes, Michael J., 3,640,603.
Grafmuller, Fritz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Method for the consolidation of soil. 3,640,021, 2-8-72, Cl. 47-9.
Grafon Corporation: *See—*
Hausermann, Elmer P., 3,663,785.
Grafstein, Daniel: *See—*
Barnes, Robert L.; Block, William M.; and Grafstein, Daniel, 3,671,489.
Grafstein, Daniel: *See—*
Barnes, Robert L.; and Grafstein, Daniel, 3,669,993.
Grafstrom, Stig Olof; and Blomqvist, Nils Verner, to Mo och Domsjo Aktiebolag. Method of converting sheet cellulose pulp to defibrated pulp. 3,645,456, 2-29-72, Cl. 241-29.
Grafton, Jim R.; Wilkins, Glenn E.; and Murphy, Joseph F., to Blackhawk Metal Products, Inc. Portable gas-fired cooking grill. 3,646,928, 3-7-72, Cl. 126-41.
Grafton, Jim R.; Wilkins, Glenn E.; and Murphy, Joseph F., to Blackhawk Metal Products, Inc. Gas-fired cooking grill. 3,692,013, 9-19-72, Cl. 126-41.00r.
Grafton, Walter, & Son Limited: *See—*
Payne, Derek G., 3,653,605.
Grage, Casper R.; and Vessels, Theodore R., to Continental Granite Corporation. Wire type stone cutting saw. 3,635,207, 1-18-72, Cl. 125-21.
Grason, James T.; and Bosse, David W., to Phillips Petroleum Company. Overbasing petroleum sulfonate additives for lubricating oils. 3,658,703, 4-25-72, Cl. 252-33.
Graham, Alan A.: *See—*
Shortway, Harry A.; Graham, Alan A.; Mansolillo, Robert D.; and Dobry, Joseph F., 3,660,187.
Graham, Bobby Eagle, to Bell Telephone Laboratories, Incorporated. Microwave transmission line termination. 3,654,573, 4-4-72, Cl. 333-22.
Graham, Boyd E.; and Veldkamp, William, to Upjohn Company. The Method of obtaining antihypertensive and antianxiety effects. 3,632,761, 1-4-72, Cl. 424-248.
Graham, Boynton, to Du Pont de Nemours, E. I., and Company. Chromium dioxide recording compositions stabilized with long-chain ammonium salts. 3,634,252, 1-11-72, Cl. 252-62.54.
Graham, Charles D., Jr.: *See—*
Donaldson, Gordon W.; Graham, Charles D., Jr.; and Hart, Howard R., Jr., 3,665,351.
Graham, Charles P.; Fonti, Louis, Jr.; and Martinez, Arnold M., to American Sugar Company. Tableting sugar, method of preparing and compositions containing same. 3,642,535, 2-15-72, Cl. 127-29.
Graham, David E.; Schulze, Thomas; and Fein, Marvin M., to GAF Corporation. Complex of the methyl esters of 3-amino-2, 5-dichlorobenzoic and 2,5-dichloro-3-nitrobenzoic acid. 3,681,429, 8-1-72, Cl. 260-471.00r.
Graham, Dell Derek Paul, to M & T Chemicals (Australia) Pty., Limited. Method of controlling insects on animals with organotin compounds. 3,702,360, 11-7-72, Cl. 424-288.000.
Graham, Donald P., to Hercules Incorporated. Booster-cap assembly. 3,640,222, 2-8-72, Cl. 102-24.
Graham, Donald W.: *See—*
Christensen, Burton G.; Beattie, Thomas R.; and Graham, Donald W., 3,657,282.
Graham, Douglas J.: *See—*
Bhuta, Pravin G.; Johnson, Robert L.; and Graham, Douglas J., 3,703,463.
Graham, Edward K., Jr.: *See—*
Tinsley, Cleere B.; and Graham, Edward K., Jr., 3,659,881.
Graham, Edward P.: *See—*
Lill, Melvin H.; and Graham, Edward P., 3,689,161.
Graham, Eric Purdy, to Fisher Gauge Limited. Method of injection die casting. 3,701,378, 10-31-72, Cl. 164-113.000.
Graham, George C. Fluid pump apparatus and system. 3,632,233, 1-4-72, Cl. 417-375.
Graham, Gerald A.: *See—*
Graham, Harold R.; and Graham, Gerald A., 3,638,907.
Graham, Glenn R.; and Biggs, Robert W., to Abex Corporation. Coupling with carbon and beryllium friction surfaces. 3,695,406, 10-3-72, Cl. 192-107.00m.
Graham, Harold Nathan: *See—*
Gurkin, Martin; Sanderson, Gary Warner; and Graham, Harold Nathan, 3,666,484.
Graham, Harold R.; and Graham, Gerald A., said Graham, Gerald A., assor. to said Graham, Raymond L. Quick coupling apparatus. 3,638,907, 2-1-72, Cl. 251-148.
Graham, James L.: *See—*
Owens, James M.; Graham, James L.; and Pilsworth, Edward A., 3,660,101.
Schwan, Judith A.; and Graham, James L., 3,672,898.
Graham, James Leo, to Eastman Kodak Company. Coating methods of hardenable, multilayer arrangements. 3,687,707, 8-29-72, Cl. 117-34.000.
Graham, James T.; and Hackstock, Fred W., to Bendix Corporation. The Transverse cam operated station for an automatic nonsynchronous multistation assembly machine. 3,648,346, 3-14-72, Cl. 29-200.
Graham, John W.: *See—*
Terry, William M.; Graham, John W.; Sinclair, Albert R.; and Kiel, Othar M., 3,700,032.
Graham, John W., to Esso Production Research Company. Hydraulic fracturing using reinforced resin pellets. 3,659,651, 5-2-72, Cl. 166-280.
Graham, John W.; Kiel, Othar M.; Terry, William M.; and Sinclair, Albert R., to Esso Production Research Company. Hydraulic fracturing using petroleum coke. 3,664,420, 5-23-72, Cl. 166-280.000.
Graham, Marvin M.: *See—*
McIntosh, Harold A.; Randolph, Hollis L.; Chambers, William W.; and Graham, Marvin M., 3,636,414.
Randolph, Hollis L.; and Graham, Marvin M., 3,682,188.
Graham, Marvin M.; and Chambers, William W., to Robertshaw Controls Company. Monitoring apparatus having auxiliary switching means. 3,659,781, 5-2-72, Cl. 236-11.
Graham, Patricia M.: *See—*
Witzel, Bruce E.; Shen, Tsung-Ying; Graham, Patricia M.; Clark, Robert L.; and Pessolano, Arsenio A., 3,654,291.
Graham, Paul R.: *See—*
Bergomi, Joseph G., Jr.; Dill, Dale R.; and Graham, Paul R., 3,665,060.
Ottinger, August F.; Merchant, Morris V.; and Graham, Paul R., 3,658,579.
Ottinger, August F.; and Graham, Paul R., 3,671,479.
Graham, Paul R.; and Ottinger, August F., to Monsanto Company. Barrier coatings. 3,632,424, 1-4-72, Cl. 117-155.
Graham, Paul R.; and Ottinger, August F., to Monsanto Company. Polymer modified starch compositions. 3,632,425, 1-4-72, Cl. 117-155.
Graham, Peter H.: *See—*
Reece, Paul; and Graham, Peter H., 3,652,889.
Graham, Phillip. Vehicle occupant safety barrier. 3,689,104, 9-5-72, Cl. 280-150.00b.
Graham, Raymond L.: *See—*
Graham, Harold R.; and Graham, Gerald A. (said Graham, Gerald A., assor. to said), 3,638,907.
Graham, Reginald: *See—*
Evans, Sydney; and Graham, Reginald, 3,657,531.
Powers Patrick; Graham, Reginald; and Bingham, Richard Albert, 3,686,683.
Graham, Richard E., to National Cash Register Company. The Control means for an optical bar code serial printer. 3,678,465, 7-18-72, Cl. 340-172.500.
Graham, Richard J.; Mottin, Ralph E.; and Noren, Oscar B., to Parke, Davis & Company. Locking capsule. 3,664,495, 5-23-72, Cl. 206-63.2.
Graham, Robert L.: *See—*
Burgess, James E.; Falce, Louis R.; Graham, Robert L.; and Scott, Allan W., 3,691,630.
Maurer, William C.; Heilhecker, Joe K.; and Graham, Robert L., 3,645,331.
Maurer, William C.; Lock, Everett H.; and Graham, Robert L., 3,688,853.
Graham, Robert Leslie: *See—*
Wilson, Martin Norman; Smith, Peter Faraday; Walters, Colin Russell; Lewin, John David; Broomfield, Robert Walter; and Graham, Robert Leslie, 3,662,093.
Graham, Robert P. Neutralization of straw by adding potato peelings. 3,692,530, 9-19-72, Cl. 99-10.000.
Graham, Robert Porteous: *See—*
Hryniskak, Waldemar; and Graham, Robert Porteous, 3,633,926.
Graham, Robert W., to General Motors Corporation. Master cylinder assembly. 3,635,024, 1-18-72, Cl. 60-54.6.
Graham, Seymour C.: *See—*
Spyra, Rudolf A., 3,646,190.

- Graham, Stanford G.; Sewelin, Ernest R.; Staadt, Richard L.; and Pinney, Jimmie D., to International Harvester Company. Vehicle cab mounting. 3,638,749, 2-1-72, Cl. 180-68.
- Graham, Stephen S.; and Baumann, Martin. Display carton assembly. 3,687,278, 8-29-72, Cl. 206-44.00r.
- Graham, Timothy. Protective container for clothing. 3,692,171, 9-19-72, Cl. 206-7.00c.
- Graham Transmissions, Inc.: See—
Alsch, Richard E., 3,668,892.
- Graham, Walton; Gardner, Sheldon; and Cabot, John, to Control Data Corporation, mesne. Multiple beam scanned planar array. 3,657,693, 4-18-72, Cl. 340-6.
- Graham, Walton; and Keegan, Robert R., to Control Data Corporation. Pilot warning indicator system utilizing a transmission of signals within the absorption band of the oxygen spectrum. 3,680,122, 7-25-72, Cl. 343-112.0ca.
- Graham, Walton; Melnick, Irving E.; and De Filippis, Tullio, to Control Data Corporation. Acoustic pulse generator utilizing a mechanism for changing the natural frequency of oscillation. 3,691,516, 9-12-72, Cl. 340-8.00r.
- Graham, William I., to International Business Machines Corporation. Data communications method and system. 3,632,881, 1-4-72, Cl. 179-15.
- Graham, William J.: See—
Trost, Joseph C.; Bock, Robert V.; Gerbstadt, Frederick H.; Graham, William J.; Miles, Wilson D.; and Questa, Charles R., 3,675,209.
- Graham, William J., to Texaco Inc. Sealing means for a ball valve. 3,649,035, 3-14-72, Cl. 277-231.
- Graham, William John, to Linear Machine Company Limited. Apparatus for feeding can ends. 3,688,946, 9-5-72, Cl. 221-11.000.
- Graham-White Sales Corporation: See—
Bredlow, Harvey F., 3,667,442.
Frantz, Virgil L., 3,631,894.
Frantz, Virgil L., 3,651,829.
- Grahame, Frederick W. Combined capacitor-inductor reactor device having transformer characteristics. 3,704,390, 11-28-72, Cl. 315-276.000.
- Grahame, Robert E.: See—
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Johnson, Gerald Frederick, 3,642,125.
Morehouse, Alpha L.; Malzahn, Ronald C.; and Day, John T., 3,663,369.
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- Grammont, Paul D.: See—
Carbonnel, Jack V.; Grammont, Paul D.; and Werotte, Louis E., 3,674,728.
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- Granberg, Georgy Ljubimovich: See—
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Gentry, Charles B.; Scanlon, Robert M.; Rumery, Jerome; McDonald, Howard L.; and Keeler, Larry G., 3,668,910.
Gentry, Charles B., 3,706,445.
Phillips, William A., 3,670,668.
Scanlon, Robert M.; and Beckwith, Hildreth C., 3,664,491.
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Bruhn, Max R. C., Jr.; and Jagt, James Vander, Jr., 3,657,943.
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- Grandia, Johannes; and Rohr, Robert Lewis, to International Business Machines Corporation. Precision cutting apparatus and method of operation therefor. 3,674,004, 7-4-72, Cl. 125-16.000.
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- Grandin, Robert. Push-button control device for a radio receiver. 3,636,776, 1-25-72, Cl. 74-10.33.
- Grandjean, Theo; Zumstein, Juan Ulrich; and Liechti, Alfred, to Liechti, Fred, Aktiengesellschaft. Method and apparatus for monitoring and stimulating the activity of the heart. 3,638,656, 2-1-72, Cl. 128-419.
- Grandle, James Arthur, Jr., to Bell Telephone Laboratories, Incorporated. Coin station timing test arrangement. 3,691,320, 9-12-72, Cl. 179-175.200.
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- Grandy, Andrew J. Wire forming apparatus. 3,677,309, 7-18-72, Cl. 140-149.000.
- Grandy, Andrew J. Method of making ammunition. 3,706,256, 12-19-72, Cl. 86-1.000.
- Grane, Henry R.; and Katz, Isadore Edward, to Atlantic Richfield Company. Process to produce high purity isobutylene. 3,665,048, 5-23-72, Cl. 260-682.
- Graneau, Peter; and Smith, Joseph L., Jr., to Simplex Wire and Cable Company. Coolant circuit for resistive cryogenic electric power transmission line. 3,646,243, 2-29-72, Cl. 174-15.
- Graneau, Peter, to Interpace Corporation, mesne. High voltage surge diverter. 3,654,520, 4-4-72, Cl. 317-61.
- Graner, Gerhard: See—
Anderegg, Paul; and Graner, Gerhard, 3,649,419.
- Graner, Rolf G.: See—
Anderegg, Paul; and Graner, Rolf G., 3,679,522.
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- Grangaard, Orrin H., Jr.; and Selig, Ernest T., to Bison Instruments, Inc. Soil strain gage. 3,678,739, 7-25-72, Cl. 73-88.50r.
- Grange, Howard L. Roof construction providing air flow from eave to ridge. 3,683,785, 8-15-72, Cl. 98-35.000.
- Grange, Kenneth H., to Maruzen Sewing Machine Co., Ltd. Sewing machine with combined accessory receptacle and auxiliary bed. 3,673,972, 7-4-72, Cl. 112-258.000.
- Granger, Anthony F., to Coal Industry (Patents) Limited. Method of manufacturing unitary porous carbon bodies. 3,663,171, 5-16-72, Cl. 23-209.100.
- Granger, Camille: See—
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- Granger, Charles R. Method and apparatus for demonstrating photometric procedures. 3,695,770, 10-3-72, Cl. 356-180.000.
- Granger, Edward H., Jr., to Phillips, F. C., Inc. Golf shoe cleat and support therefor. 3,685,175, 8-22-72, Cl. 36-67.00r.
- Granger, James E.: See—
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- Granger, Maurice. Apparatus adapted to form collars around openings previously executed in plates or tubes. 3,670,547, 6-20-72, Cl. 72-75.
- Granger, Roger A. Hydroplane boat. 3,648,640, 3-14-72, Cl. 114-66.5.
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- Granieri, George J. Control system. 3,688,130, 8-29-72, Cl. 307-252.00f.
- Granieri, George John; and Lefkowitz, Edward Herbert, to Tappan Company, The, mesne. Control apparatus for air conditioning and like systems. 3,700,914, 10-24-72, Cl. 307-141.000.
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- Granirer, Minna B.: See—
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- Granito, Charles E., to Diamond Shamrock Corporation. Polychloro hydroxy derivatives of monocarboxy pyridines. 3,651,070, 3-21-72, Cl. 260-295.
- Grankowski, Eugene E.; and Pappas, Lambros A., to Wyman-Gordon Company, mesne. Hydraulic control system for a metal forming press. 3,668,920, 6-13-72, Cl. 72-455.000.
- Granning, Ole, to Granning Suspensions, Inc. Vehicle suspension. 3,689,102, 9-5-72, Cl. 280-112.00r.
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- Grannis, Norman J., to Computer Design Corporation. Add subtract apparatus for binary coded decimal numbers. 3,694,642, 9-26-72, Cl. 235-170.000.
- Granqvist, Carl-Erik, to AGA Aktiebolag. Apparatus for digitally representing angular displacement. 3,634,838, 1-11-72, Cl. 340-196.
- Granqvist, Carl-Erik, to AGA Aktiebolag. Apparatus for indicating errors in inclination for inertial navigation. 3,672,229, 6-27-72, Cl. 73-504.
- Granqvist, Carl-Erik, to AGA Aktiebolag. Instrument for measuring distance. 3,677,646, 7-18-72, Cl. 356-4.000.
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- Granryd, Eric G. U., to American Gas Association, mesne. Internal combustion heat engine and process. 3,677,026, 7-18-72, Cl. 62-115.000.
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- Granskog, Roland, to Linden-Alimak Aktiebolag. Stopping apparatus. 3,640,349, 2-8-72, Cl. 173-32.
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Grant, Benton H., 3,674,019.

- Grant, Benjamin M. Harvesting attachment. 3,646,737, 3-7-72, Cl. 56-106.
- Grant, Benton H., to Grant Airmass Corporation. Dual layer cellular inflatable pad. 3,674,019, 7-4-72, Cl. 128-33.000.
- Grant, Bernard Carrington; and Reilly, John F., to General Tire & Rubber Company. The. Replaceable seat insert and process of making. 3,647,260, 3-7-72, Cl. 297-219.
- Grant, Charles H., to Dow Chemical Company. The. Method for preparing gelled slurry explosive compositions containing distinct liquid and solid phases. 3,639,184, 2-1-72, Cl. 149-44.
- Grant, Charles H., to Dow Chemical Company. The. Method and apparatus for delivering thickened blasting agents. 3,690,213, 9-12-72, Cl. 86-20.00c.
- Grant, David C.; and Lamson, Byron A. Berry picking machine. 3,675,406, 7-11-72, Cl. 56-330.000.
- Grant, Donald W., to Leesona Corporation. Yarn handling. 3,643,882, 2-22-72, Cl. 242-36.
- Grant, Everette A., Sr. Furniture with disconnectable parts. 3,658,381, 4-25-72, Cl. 297-440.
- Grant, Gerald F.: See—
Craig, Robert D.; Evans, Richard O.; and Grant, Gerald F., 3,699,734.
- Grant, Howard E. Automobile washing unit. 3,689,954, 9-12-72, Cl. 15-21.00e.
- Grant, Ian James, to British Petroleum Company Limited. The. mesne. Anti-overspill container filling apparatus. 3,662,792, 5-16-72, Cl. 141-198.
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- Grant, John; and Fisher, Martin John, to United Kingdom Atomic Energy Authority. Fluid distributors. 3,661,163, 5-9-72, Cl. 137-81.500.
- Grant, John; and Longley, Miner R., to Aerotronic Associates, Inc. Cooling hood for supporting printed circuit boards during burn-in. 3,697,815, 10-10-72, Cl. 317-100.000.
- Grant, John M., to International Telephone and Telegraph Corporation. Tubular photocell with secondary emission from internal surface. 3,634,690, 1-11-72, Cl. 250-207.
- Grant, John M.; and Stolzy, Albert D., to International Telephone and Telegraph Corporation. Coordinate detector. 3,669,550, 6-13-72, Cl. 356-152.000.
- Grant, John M., to International Telephone and Telegraph Corporation. Image intensifier with electroluminescent phosphor. 3,675,028, 7-4-72, Cl. 250-213.0vt.
- Grant, Jon H.; and Bales, Walter D., to Hughes Aircraft Company. Precision fast analog switch. 3,641,365, 2-8-72, Cl. 307-241.
- Grant, Lewis F., to Clark Equipment Company. Vehicle suspension. 3,698,737, 10-17-72, Cl. 280-112.000.
- Grant, Louis A., to Grant, Louis A., Inc. Ladle skimmer. 3,659,833, 5-2-72, Cl. 266-37.
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Grant, Louis A., 3,659,833.
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- Grant, Michael E.: See—
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- Grant, Michael P., to Industrial Nucleonics Corporation. Single frequency moisture gauge with two-channel demodulation and feedback control of input. 3,684,953, 8-15-72, Cl. 324-61.000.
- Grant, Michael P.; and Freeh, Edward J., to Industrial Nucleonics Corporation. Grinding mill method and apparatus. 3,697,003, 10-10-72, Cl. 241-24.000.
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Alburn, Harvey E.; Dvonch, William; and Grant, Norman H., 3,652,609.
Alburn, Harvey E.; Clark, Donald E.; Grant, Norman H.; and Lapidus, Milton, 3,703,542.
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- Grant, Paul J.: See—
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- Grant, Perry J., to Klamer, Reuben; d/b/a Klamer, Reuben, & Associates. Game with free fall playing pieces and selectively placed support pegs. 3,655,191, 4-11-72, Cl. 273-95.
- Grant, Peter H., to Bell & Howell Company. Film retaining insert for reels. 3,675,869, 7-11-72, Cl. 242-74.000.
- Grant, Peter M.; Fulkerson, Brazelton; and Mench, John W., to Eastman Kodak Company. Rumen stable medicament and/or nutrient compositions. 3,697,640, 10-10-72, Cl. 424-35.000.
- Grant, Ralph M., to G. C. Optronics Inc. Method for analyzing the joiner between a pair of abutting members. 3,645,129, 2-29-72, Cl. 73-67.
- Grant, Ronald D., to JFD Electronics Corporation. Broadside log periodic antenna. 3,696,437, 10-3-72, Cl. 343-792.500.
- Grant, Ronald D., to JFD Electronics Corporation. Miniature TV antenna. 3,707,681, 12-26-72, Cl. 325-368.000.
- Grant, Roy Arthur, to Tasman Vaccine Laboratory Limited. Processes for the purification of waste effluent. 3,697,419, 10-10-72, Cl. 210-27.000.
- Grant, Stuart: See—
Levy, Selden; Grant, Stuart; Coryell, Vincent; and Diamond, Fred, 3,692,389.
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Chapman, Robert Dean; and Grant, Swick Edwin, 3,651,704.
- Grante, Ralph; and Andre, Byron, to Dynamic Tools Ltd. Hydraulically operated hand tools. 3,685,151, 8-22-72, Cl. 30-134.000.
- Grantham, Frederick W.; and Mc Clain, Edward L. Laundry folder with wicket clamp. 3,684,274, 8-15-72, Cl. 270-62.000.
- Grantham, Frederick W., to Mecca Bros. Inc. Sensing means for folder. 3,692,303, 9-19-72, Cl. 270-61.000.
- Grantham, Frederick W. Continuous washing apparatus. 3,693,382, 9-26-72, Cl. 68-96.000.
- Grantham, Max Edward, to Tecalemit (Engineering) Limited. Cam operated fluid pumps. 3,632,236, 1-4-72, Cl. 417-471.
- Grantham, Max Edward, to Tecalemit (Engineering) Limited. Chassis lubrication systems. 3,667,574, 6-6-72, Cl. 184-7.00r.
- Grantham, Paulette. Laundry towel rolling means. 3,695,540, 10-3-72, Cl. 242-65.000.
- Grantham, Rodney E.; Malloy, John H.; and Warnock, Frederick E., to United States of America, Navy. Ordnance fuze encoding and decoding system. 3,667,392, 6-6-72, Cl. 102-70.20r.
- Grants, Paul R., to I.F.S. Incorporation. Preformed enclosed insulating filler and insulating strip. 3,704,562, 12-5-72, Cl. 52-396.000.
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Denison, Dean R.; and Morrison, Charles F., Jr., 3,648,046.
- Granzow, Daniel B.; Gawron, Stanley A.; Graff, William P.; and Swain, Pervis A., to Addressograph-Multigraph Corporation. Graphic recorder. 3,632,201, 1-4-72, Cl. 355-3.
- Grapha Maschinenfabrik Hans Mueller AG: See—
Mueller, Hans, 3,679,072.
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Muller, Hans, 3,661,380.
Muller, Hans, 3,690,208.
Preiter, Alfred, 3,663,007.
- Graphic Engineering, Inc.: See—
Donahue, Leo O.; and Behrens, Roy E., 3,659,699.
- Graphic Pollution Control, Inc.: See—
Keith, Charles N., 3,636,637.
- Graphic Sciences, Inc.: See—
Von Hippel, Eric A., 3,640,482.
Von Hippel, Eric A., 3,697,691.
- Graphic Systems, Incorporated: See—
Aron, Edward A.; Griffith, Louis E.; and Tidd, James A., 3,693,516.
Tidd, James A., 3,631,774.
Tidd, James A., 3,631,775.
- Graphic Transmission Systems, Inc.: See—
Smith, John W.; and Pinkham, Roger A., 3,694,571.
- Graphicart Internationale Ausrüstungsgesellschaft fur graphische Kunst AG: See—
Guggisberg, Ernst, 3,650,372.
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Chabardes, Pierre; Gandilhon, Pierre; Grard, Charles; and Thiers, Michel, 3,671,569.
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Charnel, Andre; Duroux, Jacques Marius; Siquet, Serge; and Descroix, Jaques, 3,692,830.
Grunfeld, Maximilien; and Bodin, Jean-Marie, 3,649,683.
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Gray, Oscar S., 3,645,849.
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Anderson, Fred T., 3,707,355.
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Miller, Michael J., 3,688,857.
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Stickler, Charles W., Jr., 3,653,216.

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Fraser, Alan R., 3,677,700.
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- Carr, Peter, 3,682,797.
- Hsu, Harry L., 3,684,465.
- Joo, Louis A.; and Bryan, Loren A., 3,681,401.
- Prescott, Roger, 3,671,285.
- Shea, Frederick L.; Joo, Louis A.; and Martin, Thomas W., 3,668,110.
- Winstead, Thomas W., 3,676,537.
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Carroll, William J.; and Mizusawa, Frank S., 3,640,234.
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Alexander, Donald K., 3,690,568.
- Great Northern Nekoosa Corporation: *See—*
Thompson, Albion J., 3,659,461.
- Great Plains Bag Co.: *See—*
Gebo, Leo P., 3,648,922.
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Neitzel, Ulrich E.; and Butts, Davis S., 3,667,980.
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Flint, Hans Gerhard; and Neitzel, Ulrich E. G., 3,679,376.
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Smith, James M., 3,690,392.
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Quayle, Joshua Creer; Greatrix, Graham Roland; and Coombe, Ronald Alan, 3,664,306.
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Brockbank, Peter A.; Spencer, Keith B.; and Greaves, Reginald Ian, 3,657,952.
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Fowler, Eliot Patrick; and Greaves, Richard William, 3,683,205.
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Jackle, William M.; Garin, Paul V.; Thomford, William E.; Greb, Wallace M.; and Udaloff, Nicholas N., 3,661,098.
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Grebe, Konrad; and Winterhoff, Gudrun (said Winterhoff assor. to said), 3,649,078.
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Kleitman, David; Russell, Lewis K.; and Grebene, Alan B., 3,669,666.
- Grebik, Stephen J.: *See—*

- Hartz, Marvin E.; Taormina, Anthony J.; and Grebik, Stephen J., 3,676,838.
- Grebner, William J.: *See—*
Updyke, Kenneth W.; and Grebner, William J., 3,670,092.
- Grebnev, Nikolai Feodosovich: *See—*
Efimov, Leonid Alexandrovich; Shtin, Lev Mikhailovich; Sinit'sky, Vladimir Mikhailovich; Khirdzhev, Sergei Grigorievich; Pylaikin, Petr Alexeevich; Satovskaya, Ljudmila Sergeevna; Grebnev, Nikolai Feodosovich; Rasseikin, Mikhail Grigorievich; Kalugin, Konsantin Yakovlevich; Somov, Boris Stepanovich; and Baranchikov, Vladimir Mikhailovich, 3,678,728.
- Shtin, Lev Mikhailovich; Grebnev, Nikolai Feodosovich; Satovskaya, Ljudmila Sergeevna; Rasseikin, Mikhail Grigorievich; Khirdzhev, Sergei Grigorievich; Perevozchikov, Evgeny Titovich; Zagulina, Sofia Stepanovna; Duda, Vladimir Nikolaevich; and Karasev, Mihail Andreevich, 3,664,168.
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Bascomb, Hollis H.; and Greci, John J., 3,669,790.
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Carbonaro, Antonio; Greco, Alberto; Asta, Gino Dall; and Cameli, Nazzareno, 3,699,088.
- Dall'Asta, Gino; Carbonaro, Antonio; Borghi, Italo; and Greco, Alberto, 3,682,870.
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Mirviss, Stanley B.; Greco, Carl C.; and Stamm, Walter, 3,642,890.
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Longi, Paolo; Greco, Francesco; and Bernasconi, Ermanno, 3,644,306.
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Aagaard, Einar Andreas; Greekes, Johannes Anton; and Van Den Enden, Adrianus Wilhelmus Maria, 3,700,831.
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Jackson, Meryl R., 3,667,512.
- Green, Alan L.: *See—*
Hasbrouck, Gene B.; and Green, Alan L., 3,687,088.
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- Green, Albert Lawrence: *See—*
Fielden, Roy; Green, Albert Lawrence; and Hills, Derek William, 3,655,757.
- Green, Albert W.: *See—*
Brown, Marion L., Jr.; Green, Albert W.; and Blanton, Elmer L., 3,647,412.
- Green, Angelica G., to Kimberly-Clark Corporation. Gauze section for a surgical drape sheet. 3,677,266, 7-18-72, Cl. 128-132.00d.
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Lombardi, Louis J.; Coyne, Roy J.; and Green, Charles E., 3,681,474.
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- Green, Clifford L. Incinerator. 3,703,732, 11-28-72, Cl. 4-131.000.
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Naito, Ryoichi; Oguro, Yoshigoro; and Doi, Takuji, 3,639,566.
- Green, David T.: *See—*
Bryan, Graham W.; and Green, David T., 3,675,688.
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- Green, Dermot, to Dowty Seals Limited. Gaskets. 3,653,673, 4-4-72, Cl. 277-227.
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Wideman, Gilder L., 3,675,659.
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Goodboy, George O., Jr.; Green, Donald W.; and Kopec, Conrad J., 3,680,320.
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- Green, Gary W.: *See—*
Fitting, Samuel E.; and Green, Gary W., 3,698,509.
- Green, Geoffrey William; and Hurle, Donald Thomas James. Preparation of eutectic material. 3,695,941, 10-3-72, Cl. 148-1.600.
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Brace, Eldred C.; and Green, George E., 3,661,740.
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- Green, Harry J., Jr., to General Dynamics Corporation. Method for sealing microelectronic device packages. 3,648,357, 3-14-72, Cl. 29-492.
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- Green, Harry W., to Standard Products Company, The. Apparatus for multi-stage treatment of waste material. 3,666,106, 5-30-72, Cl. 210-201.000.
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Johnson, Fielding G.; and Green, James A., 3,688,910.
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- Green, John L.; and Nelson, Robert. Electrical connectors. 3,673,546, 6-27-72, Cl. 339-89.00c.
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Levine, Nathan B.; Green, Joseph; and Sheehan, William R., 3,649,609.
- Mayes, Nathan; and Green, Joseph, 3,657,336.
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- Green, Joseph; Roth, Shirley H.; and Seipel, John J., to Cities Service Company. Intumescent coating composition. 3,703,487, 11-21-72, Cl. 260-2.5fp.
- Green, Joseph A., to International Telephone and Telegraph Corporation. Frequency analyzer. 3,641,445, 2-8-72, Cl. 328-140.
- Green, Kelvin D., to Parker-Hannifin Corporation. Tube installation method. 3,646,662, 3-7-72, Cl. 29-421.
- Green, Kurt G.: *See—*
Hollister, Robert H.; Wilburn, Garlington C.; and Green, Kurt G., 3,676,623.
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Borman, August H.; Green, Lawrence E.; and Wonn, Quinby E., 3,642,107.
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Reason, Dennis Joseph; and Green, Leslie James, 3,653,713.
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Carpenture, Herbert L., Jr.; and Green, Oscar, 3,704,798.
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Wood, Gerald F.; and Green, Paul E., 3,650,045.
- Green, Raymond J., to General Motors Corporation. Anti-lock brake system with wheel speed comparator. 3,687,242, 8-29-72, Cl. 188-181.00c.
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- Green, Richard R.: *See—*
United States of America, National Aeronautics and Space Administration, 3,701,894.
- Green, Robert B.; Newsom, Raymond A.; and Tromblee, Gene L., to Monsanto Company. Method for removing color forming impurities from hydrocyanic acid. 3,689,215, 9-5-72, Cl. 423-379.000.
- Green, Ronald A. Combination container-dispenser for viscous materials. 3,643,837, 2-22-72, Cl. 222-101.
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Preston, Leslie Raymond; Pope, Victor James; Stagg, John; and Green, Ronald Sydney, 3,681,177.
- Green, Thomas A.; and Ross, Charles W., to Leeds & Northrup Company. Automatic joint probability calculation of noise corrupted process measurements. 3,633,009, 1-4-72, Cl. 235-151.3.
- Green, Thomas A.; and Ross, Charles W., to Leeds & Northrup Company. System for controlling a single control variable by proportioning a plurality of related manipulated variables. 3,691,354, 9-12-72, Cl. 235-150.100.
- Green, Thomas C.: *See—*
Farman, Charles E.; Green, Thomas C.; Pepper, Hurley D.; and Slone, Samuel, 3,686,115.
- Green, Victor J. Trampoline. 3,677,368, 7-18-72, Cl. 182-139.000.
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- Green, Wesley R.: *See—*
McGroarty, Bryan M., 3,676,198.
- Green, William B., to Phillips Petroleum Company. Controlling polymerization of comonomer in copolymerization. 3,658,777, 4-25-72, Cl. 260-88.2.
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- Green, William R., to Atomic Energy of Canada Limited. Irradiation apparatus for providing a high initial irradiation of the product. 3,673,409, 6-27-72, Cl. 250-106.00r.
- Green, William S.: *See—*
Chapman, Duane K.; Green, William S.; and Newman, John W., 3,642,926.
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- Greenawalt, Monte H. Elevated traction pillow. 3,648,308, 3-14-72, Cl. 5-338.
- Greenawalt, Robert Gordon, to Sealol, Inc. Sealing ring retention device. 3,689,083, 9-5-72, Cl. 277-40.000.
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Loveday, Harry W.; and Whittaker, Jack D., 3,685,167.
- Greenbaum, Michael A.: *See—*
Marantz, Laurence B.; and Greenbaum, Michael A., 3,669,878.
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- Greenbaum, Sheldon B.; Griffith, Richard; and Klein, Howard C., to Diamond Shamrock Corporation. Processes for preparing and/or purifying chlortetracycline hydrochloride and chlortetracycline neutral base. 3,632,647, 1-4-72, Cl. 260-559.
- Greenbaum, Sheldon B.; Weil, Edward D.; and Newcomer, Jack S., to Hooker Chemical Corporation. Halogen containing tricyclic compounds. 3,687,831, 8-29-72, Cl. 204-158.000.
- Greenbaum, William H.: *See—*
Sequerra, Richard I.; Smith, Sidney S.; Assenza, Fred J.; and Greenbaum, William H., 3,691,365.
- Greenberg, Allan: *See—*
Burton, Paul T.; Cole, Walter E.; Frassetto, Henry E., Jr.; Gibson, Robert G.; Greenberg, Allan; Handloff, Louis E.; and Radlinsky, Raymond, 3,673,575.
- Greenberg, Allen A.: *See—*
Meth, Harry; and Greenberg, Allen A., 3,685,936.
- Greenberg, Allen A. Device for depositing dots of molding compound. 3,664,788, 5-23-72, Cl. 18-30.
- Greenberg, Burton: *See—*
Murgas, Karl M.; Greenberg, Burton; and Clark, Otto A., 3,700,326.
- Greenberg, Frederick A.: *See—*
Hulit, Gerald W.; Greenberg, Frederick A.; Pirkey, Edward; and Tingquist, Stanley C., 3,687,191.
- Greenberg, Jacob, to United States of America, National Aeronautics and Space Administration. Method of making EMF cell. 3,635,765, 1-18-72, Cl. 136-83.
- Greenberg, Jacob; and Whitaker, Douglas C., to Anti-Pollution Systems, Inc. Treatment of sewage and other contaminated liquids with recovery of water by distillation and oxidation. 3,642,583, 2-15-72, Cl. 203-11.
- Greenberg, Jacob, to Anti-Pollution Systems, Inc. Method of catalytically inducing oxidation of carbonaceous materials by the use of molten salts. 3,647,358, 3-7-72, Cl. 23-2.
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- Greenberg, Joel: *See—*
Marlowe, Philip; and Greenberg, Joel, 3,651,329.
- Greenberg, Michael P.: *See—*
Morley, Richard E.; and Greenberg, Michael P., 3,661,092.
- Morley, Richard E.; Weiss, Eugene M.; Moline, Robert R.; and Greenberg, Michael P., 3,681,597.
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Greenberg, Samuel; and Jacobs, Abe, 3,682,571.
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Russell, Alan F.; Greenberg, Seymour; and Moffatt, John G., 3,658,787.
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- Greenbert, Burton: *See—*
Murgas, Karl M.; and Greenbert, Burton, 3,700,327.
- Greenblatt, Eugene Newton: *See—*
Howell, Charles Frederick; and Greenblatt, Eugene Newton, 3,660,406.

- Howell, Charles Frederick; and Greenblatt, Eugene Newton, 3,705,245.
- Safir, Sidney Robert; and Greenblatt, Eugene Newton, 3,636,224.
- Greenblatt, Herbert: *See—*
- Gagliardi, Richard P.; Beans, Allen F.; Eddowes, Alfred M.; and Greenblatt, Herbert, 3,701,153.
- Greenblum, Carl: *See—*
- Metz, Robert Lee; and Greenblum, Carl, 3,648,270.
- Greene, Alexander B.: *See—*
- Kindlimann, Lynn E.; and Greene, Alexander B., 3,672,037.
- Greene, Aubrey E.; and Layfield, F. F. Wheel spinner, 3,645,143, 2-29-72, Cl. 74-14.
- Greene, Bernard A., to Amsted Industries Incorporated. Extruding fittings, 3,659,992, 5-2-72, Cl. 425-192.
- Greene, Charles E., to General Tire & Rubber Company, The. Unsaturated polyester resin formation in unsaturated ester monomer as solvent, 3,662,024, 5-9-72, Cl. 260-863,000.
- Greene, Charles W., to Deering Milliken Research Corporation. Vulcanizing rubber covered wire, 3,642,532, 2-15-72, Cl. 117-233.
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- Krasin, Lester Q.; and Greene, Clifford E., 3,639,692.
- Greene, David James: *See—*
- Harvey, Peter; Greene, David James; and Kaczmarzski, Edward Zbigniew, 3,689,002.
- Greene, Donald W.: *See—*
- Caulier, Paul W.; and Greene, Donald W., 3,646,343.
- Greene, Frank S., Jr.: *See—*
- Sander, Wendell B.; and Greene, Frank S., Jr., 3,654,610.
- Greene, Franklin R., to E-Z-Em Company, Inc. Stand-up container adapted for the administration of enemas, 3,641,999, 2-15-72, Cl. 128-227.
- Greene, H. Rowe, Jr. Retrieving tool and method, 3,645,328, 2-29-72, Cl. 166-85.
- Greene, Henry E., Jr. Turnbuckle wrench, 3,682,023, 8-8-72, Cl. 81-119,000.
- Greene, James S. Denture molding apparatus including flask members with removable plastic inserts, 3,635,630, 1-18-72, Cl. 425-175.
- Greene, Janice L.; and Clark, Rosalind E., to Standard Oil Company. Conversion of nitriles to amides in the presence of alkaline catalysts, 3,686,307, 8-22-72, Cl. 260-561,00n.
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- Greene, Malbone W., to Beckman Instruments, Inc. Pressure compensation of membrane-type sensors, 3,663,409, 5-16-72, Cl. 204-195.
- Greene, Michael L., to United States of America, Navy. Coring apparatus for taking samples of the ocean floor, 3,666,028, 5-30-72, Cl. 175-189,000.
- Greene, Palmer G., to Automatic Drilling Machines, Inc. Drilling rig depth control, 3,651,871, 3-28-72, Cl. 173-21.
- Greene, Ralph F., to General Electric Company. Method of making an electrostatic deflection electrode array, 3,680,184, 8-1-72, Cl. 29-25,140.
- Greene, Richard M.: *See—*
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- Greene, Robert L., Jr.: *See—*
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- Greene, William H., to Bendix Corporation, The. Uniformly illuminated meter indicator, 3,699,915, 10-24-72, Cl. 116-129,001.
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- Greenfield, Dorothy M.: *See—*
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- Greenfield, Rose K. Device for holding a child in a reclining position to facilitate hair shampooing, 3,633,222, 1-11-72, Cl. 4-185.
- Greenfield, Stanley A.: *See—*
- Seidel, Michael C.; Von Meyer, William C.; and Greenfield, Stanley A., 3,701,784.
- Greenfield, Stanley A., to Rohm & Haas Company. Method for preparing 4-substituted-1,2,4-thiazoles, 3,647,814, 3-7-72, Cl. 260-308.
- Greenfield, Stephen J.; Howard, Anthony; and Knapp, Lowell W., to Xerox Corporation. Document handling apparatus, 3,697,063, 10-10-72, Cl. 271-4,000.
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- Greenhalgh, Colin William; and Newton, David Francis, to Imperial Chemical Industries Limited. Anthraquinone compounds, 3,642,837, 2-15-72, Cl. 260-381.
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- Greenhalgh, William. Pakahome, 3,656,724, 4-18-72, Cl. 296-23.
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- Greenhorn, Richard J.: *See—*
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- Greenhouse, Harold M.: *See—*
- Green, Norman; Greenhouse, Harold M.; Vergara, William C.; and McGill, Robert L., Jr., 3,641,372.
- Greening, Donald J.: *See—*
- Allison, Arthur F.; Greening, Donald J.; and Mollgaard, Anton N., 3,675,104.
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- Greenland, Leonard Sidney; Smith, Charles Philip; and Marshall, David, to Hobson, H. M., Limited. Jet engines for aircraft, 3,655,134, 4-11-72, Cl. 239-265,37.
- Greenlee, Hugh T., to Wright Tool and Forge Company, The. Hanger bracket means, 3,656,727, 4-18-72, Cl. 248-201.
- Greenlee, Thomas W., to Dow Corning Corporation. Room temperature vulcanizable silicone elastomer containing molybdenum blue, 3,702,835, 11-14-72, Cl. 260-18,00s.
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- Greenly, Robert B., to Singer-General Precision, Inc. Stencil recording apparatus, 3,638,566, 2-1-72, Cl. 101-114.
- Greenman, James R.; and Lane, Thomas E., Jr., to Porta-Horse, Inc., mesne. Collapsible sawhorse, 3,631,941, 1-4-72, Cl. 182-155.
- Greenman, Karl L.: *See—*
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- Greenough, Maurice Leighton; and Kuder, Milton L., to United States of America, Commerce. Method and machine for reading handwritten cursive characters, 3,699,518, 10-17-72, Cl. 340-146,30z.
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- Lockwood, Peter; and Pentith, Gerald R. O., 3,639,004.
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- Greenspan, Donald J., to Contemporary Research and Development Corporation. Serum separator type container, 3,661,265, 5-9-72, Cl. 210-359.
- Greenspan, George: *See—*
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- Greenspan, Lawrence, to Engelhard Minerals & Chemicals Corporation. Osmium plated contacts, 3,644,692, 2-22-72, Cl. 200-166.
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- Greenspan, Lawrence E.; and Whitaker, Earl J., to Sanders Associates, Inc. Computer addressing apparatus, 3,665,402, 5-23-72, Cl. 340-172,5.
- Greenstein, Bernard: *See—*

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- Greenstein, Bernard; Langston, Perry R., Jr.; Narken, Bernt; and Sunners, Brian, to International Business Machines Corporation. Method for making monolithic opto-electronic structure, 3,663,194, 5-16-72, Cl. 65-43,000.
- Greenstein, Jean I., to Dental Gold Company. Pneumatic abrasive cutting apparatus, 3,631,631, 1-4-72, Cl. 51-8.
- Greenwald, Fred A., to General Connectors Corporation. Distortable seal ring, 3,698,727, 10-17-72, Cl. 277-153,000.
- Greenwald, Harold A., to Garrett Corporation, The. Integral lubrication system, 3,687,233, 8-29-72, Cl. 184-6,180.
- Greenwald, Harry, to Greenwald Industries, Inc. Reinforced coin drawer assembly, 3,645,598, 2-29-72, Cl. 312-333.
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- Greenwald, Harry, 3,645,598.
- Greenwald, John R.: *See—*
- Grindahl, George A.; Pierce, Ogden R.; and Greenwald, John R., 3,652,464.
- Greenwald, Richard: *See—*
- Shen, Tsung-Ying; Greenwald, Richard; Witzel, Bruce E.; and Walford, Gordon L., 3,642,997.
- Greenwald, Richard B.: *See—*
- Shen, Tsung-Ying; and Greenwald, Richard B., 3,642,785.
- Shen, Tsung-Ying; Greenwald, Richard B.; Jones, Howard; Linn, Bruce O.; and Witzel, Bruce E., 3,654,349.
- Greenway, John Michael: *See—*
- Coats, Robert Reid; and Greenway, John Michael, 3,704,493.
- Elliott, David Robert; and Greenway, John Michael, 3,644,968.
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- Greenway, John Michael, to Imperial Chemical Industries Limited. Ring threading tool, 3,701,246, 10-31-72, Cl. 57-34,00r.
- Greenwood, Allan N., to General Electric Company. Alternating current circuit breaker comprising a series reactor for shaping current and voltage waves near current zero, 3,656,022, 4-11-72, Cl. 317-11.
- Greenwood, Arthur R.; and Vesely, Kenneth D., to Universal Oil Products Company. Continuous reforming-regeneration process, 3,647,680, 3-7-72, Cl. 208-65.
- Greenwood, Arthur R.; and Vesely, Kenneth D., to Universal Oil Products Company. Reconditioning system for moving column of reforming catalyst, 3,652,231, 3-28-72, Cl. 23-288.
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- Dunnell, Alan Keith; Greenwood, David; and Wade, Thomas C. J., 3,686,723.
- Greenwood, David L., to Litton Business Systems, Inc. Remotely controlled actuator, 3,679,878, 7-25-72, Cl. 235-146,000.
- Greenwood, Donald, to G-L-J Toy Co., Inc., mesne. Gyroscope toy, 3,650,067, 3-21-72, Cl. 46-206.
- Greenwood, Edward J., to Du Pont de Nemours, E. I., and Company. Solvent soluble dry soil resistant fluoropolymers, 3,637,614, 1-25-72, Cl. 260-80,72.
- Greenwood, Edward L. Identification system for water pollution detection, 3,691,983, 9-19-72, Cl. 116-114,00r.
- Greenwood, Eugene C. Lock nut assembly and bolt and wrench for use therewith, 3,705,524, 12-12-72, Cl. 81-121,00r.
- Greenwood, Frank: *See—*
- Scowcroft, Hector; Cartledge, Albert J.; and Greenwood, Frank, 3,688,356.
- Greenwood, John Christopher, to International Standard Electric Company. Electrostatic relays, 3,670,130, 6-13-72, Cl. 200-152.
- Greenwood, John Malcolm; and Stokes, David Howard, to Lever Brothers Company. Chemical compositions, 3,669,891, 6-13-72, Cl. 252-90,000.
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- Jackson, Squire Ronald; Greenwood, Kenneth; Heaton, Alban; and Harrison, Alwin, 3,691,761.
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- Greenwood Mills: *See—*
- Cassaday, Lewis E., 3,633,198.
- Dunlap, Frederick A., III, 3,633,197.
- Greenwood, Robert: *See—*
- Shepherd, John Michael; and Greenwood, Robert, 3,650,104.
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- Greenwood, Roger; and Etcheverry, John P., to International Telephone and Telegraph Corporation. Pilot valve operated main valve with lost motion connected and tandem operated valves, 3,677,298, 7-18-72, Cl. 137-625,640.
- Greenwood, Sidney, to Nitto Kohki U.S.A., Inc. Belt tracking arrangement, 3,653,274, 4-4-72, Cl. 74-241.
- Greenwood, William S., to H & G Industries, Inc. Cam lock device for telescoping tubing, 3,667,788, 6-6-72, Cl. 287-58,00t.
- Greer, Albert H. Soluble quaternized condensation products of epihalohydrins and polyamines, 3,642,663, 2-15-72, Cl. 252-500.
- Greer, Albert H., to Sybron Corporation. Process for producing color stable and odor-free heterocyclic nitrogen compound containing polymers, 3,654,221, 4-4-72, Cl. 260-45,9.
- Greer, Edward M., to Greer Hydraulics, Inc. Method of making pressure vessel, 3,675,306, 7-11-72, Cl. 29-487,000.
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- Greer, Edward M., 3,675,306.
- Jacobellis, Alphonse A., 3,636,969.
- Jacobellis, Alphonse A., 3,680,982.
- Zahid, Abdur, 3,690,347.
- Zahid, Abdur, 3,695,298.
- Greer, Richard R. Hydroplane transport system, 3,635,035, 1-18-72, Cl. 61-67.
- Greetham, Geoffrey: *See—*
- Goodwin, Robert James; and Greetham, Geoffrey, 3,666,448.
- Gref, Hans: *See—*
- Browatzki, Kurt; Gref, Hans; Herzhoff, Peter; Maus, Fritz; Platz, Stephan; Schaum, Gustav; Schweicher, Wolfgang; and Wasser, Willi, 3,676,178.
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- Herzhoff, Peter; Gref, Hans; Behr, Rolf; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Friedsam, Josef; and Browatzki, Kurt, 3,638,604.
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- Herzhoff, Peter; Gref, Hans; Maus, Fritz; Wasser, Willi; Friedsam, Josef; and Schweicher, Wolfgang, 3,663,292.
- Herzhoff, Peter; Gref, Hans; Wolfgang, Leverkusen; Frenken, Hans; Assenmacher, Peter; and Westen, Dietmar, 3,677,076.
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- Herzhoff, Peter; Gref, Hans; and Platz, Stephan, 3,695,218.
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- Grefco, Inc.: *See—*
- Ruff, David L.; and Siddiqui, Nadeem U., 3,701,672.
- Tarbell, Harlan E.; Mogg, Donald W.; and Shea, Frederick L., 3,644,240.
- Grefe, Philipp G.; Lewiecki, Edward M.; and Shnitzler, Meyer J., to Gillette Company, The. Method for treating razor blades, 3,634,122, 1-11-72, Cl. 117-43.
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- Ference, Richard N.; Grega, Albert; Miller, James A.; Stewart, Ray T.; and Stricker, David M., 3,700,101.
- Greger, George; and Rusenko, James J., to Cutler-Hammer, Inc. Bus duct plug-in unit with improved interlock, 3,657,606, 4-18-72, Cl. 317-112.
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- Samberger, Konrad; Hruschka, Ulrich; and Greger, Karl, 3,636,370.
- Greger, Karl, to Siemens Aktiengesellschaft. Contactless switching device, 3,673,537, 6-27-72, Cl. 338-12,000.
- Gregg, David W.; Kidder, Ray E.; and Krawetz, Barton, to United States of America, Atomic Energy Commission. Electron beam-initiated chemical laser systems, 3,673,513, 6-27-72, Cl. 331-94,500.
- Gregg, Harry D., Jr.; and Lemaster, Howard V., to Ciba-Geigy Corporation. Preparation of triallyl cyanurate, 3,644,410, 2-22-72, Cl. 260-248.
- Gregg, Horace D., to Kelsey-Hayes Company. Method of forming and rounding wheels, 3,688,373, 9-5-72, Cl. 29-159,00r.
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- Lombana, Cesar A.; Phillips, Rudolph M.; and Gregg, Richard, 3,652,293.
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- Gregoire Engineering & Development Co.: *See—*
- Gregoire, Resta S., 3,677,212.
- Gregoire, Johannes H. C. M. A.: *See—*
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- Garritsen, Johan W.; and Gregoire, Johannes H. C. M. A., 3,657,330.
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Schulthess, Carl William; and Gregor, Eduard, 3,663,890.
- Gregor, Lawrence V.; and Zuegel, Markus, to International Business Machines Corporation. Glassing-annealing process for encapsulating and stabilizing FET devices. 3,658,678, 4-25-72, Cl. 204-192.000.
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Dakli, Ibrahim; Demicheli, Angelo; and Gregori, Giuseppe, 3,658,913.
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Kirk, Charles C.; Ferington, Thomas E.; and Gregorian, Razmic S., 3,668,038.
- Gregorich, James M., to Collins Radio Company. Volt-second unbalanced compensated two core power transformer. 3,659,185, 4-25-72, Cl. 321-2.000.
- Gregornik, Norm: See—
Swanson, Frank D.; and Gregornik, Norm, 3,649,599.
- Gregorovic, Dragutin T. Attachment devices for elongate members. 3,675,283, 7-11-72, Cl. 24-73.0sa.
- Gregory, Benjamin F., to Trak Microwave Corporation. Four band slot antenna. 3,701,161, 10-24-72, Cl. 343-770.000.
- Gregory, Charles A., Jr.: See—
Carter, Robert; Amos, Ralph A.; and Gregory, Charles A., Jr., 3,665,495.
- Gregory, David L., to Avco Corporation. Combination multiple wire termination block and wire stripper. 3,675,182, 7-4-72, Cl. 339-98.000.
- Gregory, Elmo M., to Lear Jet Industries, Inc. Gate drive for controlled rectifiers. 3,646,578, 2-29-72, Cl. 307-252.
- Gregory, George D.: See—
Snaper, Alvin A.; Gregory, George D.; and Munroe, Miles R., 3,675,220.
- Gregory, George P., to Hercules Incorporated. Polyperoxides. 3,658,914, 4-25-72, Cl. 260-610.
- Gregory, Gordon Ian: See—
Clark, John Colin; Cowley, Brian Richard; Gregory, Gordon Ian; Kennedy, James; and Long, Alan Gibson, 3,647,788.
- Gregory, Jocelyn M.: See—
Roberts, Gwyneth M.; Butt, Faye E.; Baklien, Asbjorn; Gregory, Jocelyn M.; and Kuiper, Jan, 3,658,957.
- Gregory, Jocelyn Margaret: See—
Baklien, Asbjorn; and Gregory, Jocelyn Margaret, 3,651,088.
- Gregory, John T.: See—
Hobson, Willis S.; Gregory, John T.; and Klienhaus, Clarence H., 3,697,388.
- Gregory, John W., to United States of America, National Aeronautics and Space Administration. Rocket thrust throttling system. 3,702,536, 11-14-72, Cl. 60-211.000.
- Gregory, Paul M., to Xerox Corporation. Xerographic plate. 3,695,757, 10-3-72, Cl. 355-3.000.
- Gregory, Roy B. Pain removing compositions and methods. 3,705,239, 12-5-72, Cl. 424-166.000.
- Gregory System, Inc.: See—
Harte, Richard A.; and Amstutz, Edwin A., 3,693,623.
- Gregory, Walter A.; and Kauer, James C., to Du Pont de Nemours, E. I., and Company. 4-Phenylbicyclo-[2.2.2]oct-2-en-1-yl urethans. 3,639,443, 2-1-72, Cl. 260-471.
- Gregory, Walter D.: See—
Smith, Thomas M.; and Gregory, Walter D., 3,706,626.
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- Gregory, William D.; and Leopold, Lutz, to Georgetown University. Superconductor electro-magnetic radiation device. 3,643,176, 2-15-72, Cl. 331-94.5.
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Szulagyi, Bela A.; Brent, Allan L.; and Greguss, Pal, 3,680,501.
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- Greider, Charles Austin, to Townsend Engineering Company. Apparatus for encasing a product. 3,694,853, 10-3-72, Cl. 17-33.000.
- Greif Bros. Corporation: See—
Carpenture, Herbert L., Jr.; and Green, Oscar, 3,704,798.
- Greif, Herbert C., to Gila River Recreation Industries, Inc. Tent camper. 3,680,909, 8-1-72, Cl. 296-23.000.
- Greif, Herman J., Jr.: See—
Leising, Maurice B.; Greif, Herman J., Jr.; Kirberg, James R.; and Willson, Philip J., 3,647,393.
- Greiff-Werke Gustav Winkler KG: See—
Jacob, Oscar Ernst Otto, 3,651,520.
- Greig, James W., to Woodall Industries Inc., mesne. Method for making foam panel. 3,647,588, 3-7-72, Cl. 156-79.
- Greig, William John: See—
Banfield, Joseph Henry; Husni, Saleem Ynes; and Greig, William John, 3,686,080.
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- Greiller, Jack F., to Eastman Kodak Company. Method and apparatus for curtain coating. 3,632,403, 1-4-72, Cl. 117-105.3.
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- Greim-Kuczewski, Gunter: See—
Greim, Walter; and Brunotte, Heinz, 3,684,323.
- Grein, Arpad: See—
Cassinelli, Giuseppe; Cotta, Ernesto; Grein, Arpad; and Maz-zoleni, Rosanna, 3,644,619.
- Grein, Louis F.: See—
Du Bois, John L.; and Grein, Louis F., 3,669,453.
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Oberli, Rudolf, 3,635,094.
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Wermuth, Charles; and Wagner, Heinz, 3,650,522.
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Buisson, Francois; and Gresteau, Jean Paul, 3,673,160.
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Ruesch, Ferdinand, 3,637,992.
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Houston, Herbert James; Baird, Robert Gordon; Bolt, Kenneth Dale; and Gretzinger, Adolf, 3,633,858.
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McLeod, David P. J.; and Gretzky, Anthony J., 3,664,393.
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Zieg, Wilhelm; Schmidt, Georg; Hauck, Edgar; Massell, Ingo; and Greubel, Gustav, 3,635,111.
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Fehler, Adolf; Greune, Christian; and Holzhauser, Hilbert, 3,688,495.
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Buchel, Karl Heinz; Grewe, Ferdinand; Frohberger, Paul-Ernst; and Kaspers, Helmut, 3,660,410.
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Robbins, Clarence R.; Grey, Seymour; and Scott, George V., 3,634,022.
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Brookman, Robert S.; Grib, Stephen; and Pearson, Dale S., 3,661,618.
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Edmonston, Robert P.; Gribens, Joel A.; and Simons, Charles W., 3,677,993.
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- Gribova, Irina Alexandrovna: See—
Korshak, Vasily Vladimirovich; Gribova, Irina Alexandrovna; Krasnov, Alexander Petrovich; Teplyakov, Mikhail Mikhailovich; Fedorova, Hoza Dmitrievna; and Shumaevskaya, Alla Nikolaevna, 3,652,408.
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Burba, Christian; Drawert, Manfred; Voigt, Hartmut; and Griebsch, Eugen, 3,697,458.
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Farrow, Roger M.; Kimber, Anthony B.; Cole, John Barrington; Miles, John Walter; and Griefiths, Graham Ernest, 3,698,562.
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Becker, Gustav; Griepentrog, Heinz; Klebert, Wolfgang; and Reich, Friedrich, 3,655,437.
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Gray, Don N.; and Grier, John D., 3,661,615.
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Smith, Lawrence Edward; and Gries, Robert Joseph, 3,668,463.
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Allington, Robert W.; and Griess, Herbert C., 3,667,056.
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Barth, Hans; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Griess, Wilhelm, 3,706,675.
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Froget, Pierre, 3,661,665.
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Neri, Louis, 3,651,852.
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Bonk, Henry W.; Grieve, Robin L.; Nadeau, Herbert G.; and Palmer, Peter G., 3,644,168.
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Parker, Samuel A.; and Wilding, Edwin L., 3,677,390.
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Odom, James J., Jr.; Shumaker, Thomas P.; and Griffin, Donald B., 3,634,230.
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Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexander Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Ereemeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexander Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
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Gordon, Frederick Armstrong; Griffin, James Richard; and Pezzarossi, John Joseph, 3,693,649.
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- O'Driscoll, Kenneth F.; and Isen, Allan A., 3,700,761.
- Griffin, Leonard E., to Monsanto Company. Bottle orienting system. 3,672,727, 6-27-72, Cl. 302-2.00r.
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- Griffin, Robert M.: See—
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- Griffin, Ronald G., to Collins Radio Company. Digital MOS FET characteristic tester. 3,636,450, 1-18-72, Cl. 324-158.
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- Griffith, Gene M.; and Hayes, Lester P., to Staley, A. E., Manufacturing Company. Loop cooker. 3,661,640, 5-9-72, Cl. 127-28.000.
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- Griffith Laboratories, Inc., The: See—
Sair, Louis, 3,635,726.
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Aron, Edward A.; Griffith, Louis E.; and Tidd, James A., 3,693,516.
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- Griffith, Richard A., to Park-Ohio Industries, Inc. Single turn channel coil. 3,699,302, 10-17-72, Cl. 219-10.570.
- Griffith, Richard McDonald: See—
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- Griffiths, Brian J.; Cooper, Herbert T.; and Hudson, Peter F., to Midland Silicones Limited. Method for preparing aminoalkyl-alkoxy siloxanes. 3,661,964, 5-9-72, Cl. 260-448.8.
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Anderson, C. H.; and Griffiths, Colin, 3,706,449.
- Griffiths Fuel Injection (Development) Limited: See—
Griffiths, Kenneth, 3,687,580.
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- Griffiths, Geoffrey William: See—
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- Griffiths, Graham Ernest; Geiger, Roger Keith; and Miles, John Walter, to Shipston Engineering Company Limited. Plastic drain cock. 3,643,917, 2-22-72, Cl. 251-215.
- Griffiths, Henry W.: See—
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- Griffiths, James Edward, to Bell Telephone Laboratories, Incorporated. Gaseous dielectric materials. 3,674,696, 7-4-72, Cl. 252-63.700.
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- Griffiths, Wilfred, to Abrasive Aids Pty. Limited. Roller and method of making same. 3,639,958, 2-8-72, Cl. 29-130.
- Griffolyn Company, Incorporated: See—
Allen, Gordon H.; Hosack, Robert C.; Schoening, Werner P.; and Yaeger, Luther L., 3,633,533.
- Bjorksten, Johan A., 3,667,175.
- Chen, Wei-Gwo, 3,644,165.
- Grifo, Richard A.: See—
Berni, Rene P.; and Grifo, Richard A., 3,689,435.

- Grigat, Ernst: See—
Schminke, Hans Dieter; Grigat, Ernst; and Putter, Rolf, 3,642,725.
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- Griggers, Arthur U. Supporting frame for receptacle with anchor therefor. 3,666,222, 5-30-72, Cl. 248-146.000.
- Griggs, Barbara Allen: See—
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- Griggs, Clifton A., to Collier-Keyworth Company. Baby jumper. 3,656,728, 4-18-72, Cl. 248-399.
- Griggs, D. Thurston: See—
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- Griggs, Ernest Lee, Jr.; and Porter, John David, to Du Pont de Nemours, E. I., and Company. Ring and bar tensioner. 3,679,153, 7-25-72, Cl. 242-153.000.
- Griggs, John O., Jr.; Radcliffe, Arthur J., Jr.; and Matouka, Michael F., to Burroughs Corporation. Electronic printing digital calculator. 3,643,077, 2-15-72, Cl. 235-160.
- Griggs, Max V.: See—
Walles, Wilhelm E.; McIntire, Otis R.; Rieke, James K.; and Griggs, Max V., 3,705,041.
- Griggs, Richard V., and Attwood, John G., to Union Special Machine Company. Bonding machine for fabrics with locating and auxiliary bonding means. 3,635,780, 1-18-72, Cl. 156-583.
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Croix-Marie, Francis Marie Jean; and Grignon, Robert Georges, 3,647,018.
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Howie, Robert K., Jr., 3,679,252.
- Grigorian, Alexandr Grigorievich: See—
Gridunov, Ivan Tikhonovich; Unkovsky, Boris Vladimirovich; Donskaya, Marina Maiorovna; Andreev, Leonid Vladimirovich; Korolkova, Galina Sergeevna; Ignatova, Ljudmila Alexandrovna; and Grigorian, Alexandr Grigorievich, 3,681,278.
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Lifshits, Viktor Senderovich; Grigoriev, Viktor Ivanovich; Petrov, Georgy Nikolaevich; and Papkov, Oleg Sergeevich, 3,684,856.
- Grigoriyants, Sergei Mikhailovich: See—
Podolsky, Viktor Grigorievich; Balkarei, Iosif Mikhailovich; and Grigoriyants, Sergei Mikhailovich, 3,705,702.
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Pascente, Joseph E., 3,668,422.
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- Grikis, Raimonds, to CPS Industries, Inc. Decorative bow. 3,632,464, 1-4-72, Cl. 161-9.
- Grill, Raymond J., to TRW Inc. Fluids flow system with self-flushing revolving filter. 3,664,509, 5-23-72, Cl. 210-391.
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Lowicki, Norbert, 3,637,367.
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- Grillot, Robert E. Support. 3,655,160, 4-11-72, Cl. 248-188.8.
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Tellier, Pierre; and Grimaud, Edouard, 3,632,684.
- Grime, Frank L.; and Downs, Arthur, to Keelavite Hydraulics Limited. Fluid tight annular seals. 3,687,465, 8-29-72, Cl. 277-188.000.
- Grimes, Dale F., Jr. Grain cleaner. 3,672,504, 6-27-72, Cl. 209-255.000.
- Grimes, Dale M., to United States of America, Air Force. Ferrite radar absorbing material. 3,662,387, 5-9-72, Cl. 343-18.00a.
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Halley, James W.; Grimes, Donald E.; Mills, Norman T.; and Yalamanchili, Krishna Rao, 3,649,249.
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- Grimes, Donald W.; and Michael, Wayne P., to Shell Oil Company. Fused container closure and means facilitating removal of the same. 3,632,004, 1-4-72, Cl. 215-40.
- Grimes, John J. Lawn mower protective guard. 3,646,740, 3-7-72, Cl. 56-320.2.
- Grimes, Kendall H.: See—
Conroy, John P.; Grimes, Kendall H.; and Maynard, Robert W., 3,650,226.
- Grimes, Kenneth, to Hamilton Kent Manufacturing Co. Resilient conduit seal. 3,647,229, 3-7-72, Cl. 277-207.
- Grimes, Monford D.; and Edmonds, James T., Jr., to Phillips Petroleum Company. Reduction of sulfur extraction from poly(arylene sulfide) coated cookware. 3,701,665, 10-31-72, Cl. 99-1.000.
- Grimes, Raymond E.; and Bruen, Robert W., to Baxter Laboratories, Inc. Microbiological isolator. 3,696,002, 10-3-72, Cl. 195-139.000.
- Grimm, Arthur C.: See—
Ball, Claire G.; Grimm, Arthur C.; and Melville, Thomas, 3,650,785.
- Grimm, David W., to Amerace Esna Corporation. Fastening device with captive, axial floating nut. 3,670,796, 6-20-72, Cl. 151-41.750.
- Grimm, David W., to Amerace Esna Corporation. Self-locking one-piece metal castle nut. 3,687,182, 8-29-72, Cl. 151-21.00b.
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- Grimm, Gerhard, to Geisenberger, Fritz. Reproducing camera. 3,682,545, 8-8-72, Cl. 355-18.000.
- Grimm, Gerhard, to Fritz Geisenberger. Reproducing camera. 3,689,152, 9-5-72, Cl. 355-70.000.
- Grimm, Harold; and Zuckerman, Ira, to Panther Machine Corporation. Turntable fabric spreading machine. 3,672,662, 6-27-72, Cl. 270-31.000.
- Grimm, Harold H.; and Zuckerman, Ira, to Panther Machine Corporation. Edge alignment assembly for cloth spreading machine. 3,645,524, 2-29-72, Cl. 270-31.
- Grimm, Heinrich: See—
Weindler, Berno; Ruprecht, Robert; and Grimm, Heinrich, 3,636,785.
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Drechsel, Herbert; Rowedder, Gustav; Dorr, Karl-Heinz; and Grimm, Hugo, 3,656,900.
- Grimm, James J.: See—
Dufour, Raymond J.; and Grimm, James J., 3,678,560.
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- Grimm, Peter, to Metallgesellschaft Aktiengesellschaft. Automatic temperature control system for extruders for molten material. 3,698,844, 10-17-72, Cl. 425-144.000.
- Grimm, Reinhard: See—
Arndt, Peter Joseph; Fink, Herbert; Moroff, Helmut; Determann, Hermine; and Grimm, Reinhard, 3,663,462.
- Grimm, Richard C.: See—
Evans, Robert W.; Grimm, Richard C.; and Olstein, Myron A., 3,678,857.
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- Grimm, Werner; Hasserodt, Ulrich; and Olschewski, Karl-Heinz, to Shell Oil Company. Liquid storage tank. 3,679,086, 7-25-72, Cl. 220-10.000.
- Grimm, Werner; Olschewski, Karl H.; and Sack, Rolf E., to Shell Oil Company. Apparatus and method for heating shaft furnaces with fuel gas. 3,706,520, 12-19-72, Cl. 43-10.000.
- Grimm, Wilhelm. Constructional element. 3,645,059, 2-29-72, Cl. 52-609.
- Grimm, Wolfgang: See—
Gerlach, Klaus; Grimm, Wolfgang; and Linhart, Helmut, 3,644,298.
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Meyer, Ernst; Grimm, Wolfgang Erlenbach; Gerlach, Klaus; and Linhart, Helmut, 3,704,863.
- Grimmer, Elmer J., to Westinghouse Electric Corporation. Condenser bushing with flexible conductor connections attached to the condenser elements. 3,647,938, 3-7-72, Cl. 174-143.
- Grimmer, Elmer J., to Westinghouse Electric Corporation. Electrical bushing having adjacent capacitor sections separated by axially continuous conductive layers, and including a cooling duct. 3,659,033, 4-25-72, Cl. 174-915.
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Buls, Vernon W.; and Grimsby, F. Norman, 3,647,639.
- Grimshaw, Derald E., to Environmental Services, Inc. Waste treatment system. 3,662,890, 5-16-72, Cl. 210-195.000.
- Grimshaw, Frederick W. Heat exchanger core. 3,702,632, 11-14-72, Cl. 165-152.000.
- Grimston, Roger Anthony; and Boyland, Albert Henry John, to Vickers Limited. Doctors for paper making machines. 3,649,991, 3-21-72, Cl. 15-256.51.
- Grimwood, Geoffrey L.; and Ferrier, Duncan C., to Broadbent, Thomas, & Sons Limited. Discharge of solid particles from centrifugal machines. 3,650,465, 3-21-72, Cl. 233-13.
- Grin, Michel; and Marchal, Francois, to European Atomic Energy Community (Euratom). Centering plug for magnetic welding a plug in the end of a tube. 3,699,297, 10-17-72, Cl. 219-9.500.
- Grinbergs, Janis: See—
Dressel, Edwin J.; Petrie, Warren A.; Shaw, Clarence W.; Grinbergs, Janis; Isakson, John E.; and Adams, Martin C., 3,658,222.
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- Grinchuk, Petr Stepanovich: See—
Sokolov, Evgeny Vyacheslavovich; Yashkin, Eduard Petrovich; Sysoev, Vadim Ivanovich; Kozhevnikov, Rady Savvich; Chabanov, Alim Ivanovich; Shinkarenko, Mikhail Ivanovich; Grinchuk, Petr Stepanovich; Fomin, Georgy Georgievich; and Rusaev, Vladimir Ivanovich, 3,686,907.
- Grindahl, George A.; Pierce, Ogden R.; and Greenwald, John R., to Dow Corning Corporation. Perfluoroalkylene ether and thioether triazine polymers. 3,652,464, 3-28-72, Cl. 260-2.
- Grinde, Jon W., to King Company, Inc. Lift boom assembly. 3,674,161, 7-4-72, Cl. 214-130.00r.
- Grindheim, Earl A., to Rosemount Engineering Company. Two wire telemetry system. 3,680,384, 8-1-72, Cl. 73-361.000.
- Grinding Wheel Institute, Inc.: See—
Shaw, Milton C., 3,636,665.
- Grindle, James L.: See—
Osteen, Mitchell M.; and Grindle, James L., 3,643,088.
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- Grindon, John R., to McDonnell Douglas Corporation. Radio direction finder signal processing means. 3,634,673, 1-11-72, Cl. 235-194.
- Grindrod, Paul E.: See—
Gifford, Maurice J.; Seiferth, Oscar E.; and Grindrod, Paul E., 3,698,979.
- Seiferth, Oscar E.; Goller, Robert L.; Grindrod, Paul E.; and Radloff, Harry L., 3,647,485.
- Seiferth, Oscar E.; Grindrod, Paul E.; Gifford, Maurice J.; and Austin, Glenn M., 3,663,240.
- Griner, Arthur J.; and Blain, William A., to Nabisco, Inc. Machines for producing snack food in the shape of a scoop. 3,653,335, 4-4-72, Cl. 107-4.
- Griner, Arthur J.; and Blain, William A., to Nabisco, Inc. Snack food forming apparatus. 3,671,163, 6-20-72, Cl. 425-297.000.
- Griner, Arthur J.; and Ryder, George, to National Biscuit Company. Cracker stacking and segregating apparatus. 3,675,792, 7-11-72, Cl. 214-6.00a.
- Griner, Ralph R., to Palmer-Shile Company. Analog control system. 3,638,575, 2-1-72, Cl. 104-1.
- Grinnell Corporation: See—
Angilly, Fredrick Ernest, Jr.; Miner, George Lindol; and Sousa, Lionel Anthony James, 3,667,195.
- Mears, James W., 3,675,952.
- White, William Kenneth, Jr., 3,631,882.
- Grinnell, Fred I.; and Hall, Clark J. Retractable guard and guide for nailer. 3,670,941, 6-20-72, Cl. 227-8.000.
- Grininger, Lowell D., to National Distillers and Chemical Corporation. Control of molecular weight in the production of afflu polymers. 3,706,721, 12-19-72, Cl. 260-82.100.
- Grinoch, Abraham, to United States of America, Army. Sensor for detecting radio frequency currents in carbon bridge detonator. 3,667,040, 5-30-72, Cl. 324-106.000.
- Grinols, Kenneth D. Underground cable pedestal. 3,652,779, 3-28-72, Cl. 174-38.
- Grinspon, Semen Yakovlevich: See—
Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexander; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikhailovich; Shevisov, Anatoly Ivanovich; Grinspon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toshev, Alexandr Mikhaivich, 3,687,188.
- Grinstein, Reuben H., to Shell Oil Company. Hydrogenation of aldehyde impurities. 3,646,227, 2-29-72, Cl. 260-643.
- Grinten, Van Der, N.V.: See—
Linthout, Theodor Hillebrand, 3,680,897.
- Grinups, George, to Unitec Industries, Inc. Refrigerator. 3,702,544, 11-14-72, Cl. 62-414.000.
- Grinvald, Boris Idelevich: See—
Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borshev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Idelevich; Zhabin, Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhikhin, Vladimir Petrovich; Rubnikovich, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Ussyaslav Iosifovich; Sharipova, Raviya Davlyatovna;
- Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorievich, 3,654,325.
- Griot, Rudolf G.: See—
Cooke, George A.; and Griot, Rudolf G., 3,687,973.
- Griot, Rudolf G., to Sandoz-Wander, Inc. Derivatives of acetic acid in compositions and methods for the alleviation of hyperlipemia. 3,660,579, 5-2-72, Cl. 424-308.
- Griot, Rudolf G., to Sandoz-Wander, Inc. Bis-halophenoxyacetic acid esters of polyalkanols. 3,668,234, 6-6-72, Cl. 260-473.
- Griot, Rudolf G.; and Buzzolini, Mario G., to Sandoz-Wander, Inc. Glutaric acid derivatives. 3,671,583, 6-20-72, Cl. 260-535.00p.
- Griot, Rudolf G., to Sandoz-Wander, Inc. Derivatives of acetic acid. 3,681,365, 8-1-72, Cl. 260-293.820.
- Griot, Rudolf G., to Sandoz-Wander, Inc. Derivatives of acetic acid for the alleviation of hyperlipemia. 3,683,086, 8-8-72, Cl. 424-267.000.
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- Gripars, Andrew Geo., to Diversy Corporation, The. Apparatus for cleaning tanks and associated pipelines. 3,665,941, 5-30-72, Cl. 134-58.00r.
- Gripe, Maxwell L., to Bendix Corporation, The. Electrical control for vacuum pump. 3,686,861, 8-29-72, Cl. 60-51.000.
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- Gripshover, Paul J.; Boyer, Charles B.; and Harth, George H., III, to Battelle Development Corporation, The. Isostatic forging. 3,633,264, 1-11-72, Cl. 29-421.
- Gris, Conrad David: See—
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- Grisafe, David A., to Sylvania Electric Products, Inc. Phosphor compositions and processes for producing same. 3,649,554, 3-14-72, Cl. 252-301.6.
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- Grisard, Jean-Claude: See—
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- Grisard, Marcel A.: See—
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- Grisdale, Patrick J., to Eastman Kodak Company. Benzo[b]pyrylium dye salts. 3,694,462, 9-26-72, Cl. 260-345.200.
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- Grise, Frederick G. J. Valve and actuator therefor. 3,672,631, 6-27-72, Cl. 251-149.600.
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- Grob, Karl; Oertter, Josef; and Wiesner, Paul, to Metallgesellschaft Aktiengesellschaft. Purification process. 3,687,844, 8-29-72, Cl. 210-23.000.
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Masella, Anthony J.; and Grobel, Edward A., 3,638,932.
- Grober, Kurt, to Mannesmann-Meer Aktiengesellschaft. Device for the manufacture of welded steel pipe from steel of any grade. 3,679,856, 7-25-72, Cl. 219-59.000.
- Grobert, Paul H., to Communications & Systems, Inc. Four quadrant multiplier using pulse width modulators and the digital exclusive-OR. 3,666,933, 5-30-72, Cl. 235-194.
- Grobert, Paul H., to Communications & Systems, Inc. High frequency four quadrant multiplier. 3,670,155, 6-13-72, Cl. 235-194.
- Grobert, Paul H.; Adams, Robert T.; and Klein, Melvin S., to Computer Sciences Corporation. Four quadrant multiplier using bipolar digital analog converter. 3,683,165, 8-8-72, Cl. 235-194.000.
- Grobin, Allen W., Jr.: *See—*
Damm, Eugene P., Jr.; Grobin, Allen W., Jr.; Herel, Edwin H.; and Radovsky, David A., 3,645,859.
- Groblebe, Earl E. Tire puncturing device to impede movement of a vehicle. 3,652,059, 3-28-72, Cl. 256-1.
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Faith, Ruth L.; and Grobman, William, 3,679,876.
- Grobman, William, to Harris-Intertype Corporation. Sheet handling apparatus. 3,693,970, 9-26-72, Cl. 271-59.000.
- Grobner, Wayne W., to Johnson & Johnson. Laminated fabric having different properties in different directions. 3,642,561, 2-15-72, Cl. 161-50.
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- Groce, Larry A. Overcurrent-fault indicator apparatus for truck lines of an electrical power distribution system. 3,641,548, 2-8-72, Cl. 340-253.
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- Grodkiwicz, William H.; Singh, Shobha; and Van Uitert, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Gallium arsenide junction diode-activated up-converting phosphor. 3,659,136, 4-25-72, Cl. 313-108.
- Grodkiwicz, William H.; and Van Uitert, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Flux growth of rare earth fluorides. 3,667,921, 6-6-72, Cl. 23-300.000.
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Nekrasov, Andrei Vladimirovich; and Grodsko, Lev Naumovich, 3,637,321.
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- Groe, Robert O. Measuring device. 3,638,323, 2-1-72, Cl. 33-162.
- Groebel, Alfred, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pharmacologically effective substance and process for isolating it from hazunta graciliflora. 3,639,589, 2-1-72, Cl. 424-195.
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- Groeber, David P.: *See—*
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- Groebke, Wolfgang, to Sandoz Ltd. Phenyl-azo-phenyl compounds. 3,632,801, 1-4-72, Cl. 260-207.
- Groen, Siemen H.; and Deumens, Johannes J. M., to Stamicarbon N.V. Preparation of (2-cyanoethyl) ketones. 3,686,262, 8-22-72, Cl. 260-465.100.
- Groenenboom, Maarten: *See—*
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- Groenewald, Hans E.: *See—*
Konecny, Jan; Haas, Jan T.; and Groenewald, Hans E., 3,674,224.
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- Groenhof, Eugene D., to Dow Corning Corporation. Alkyl-substituted disiloxanes. 3,632,619, 1-4-72, Cl. 260-448.2.
- Groenhof, Eugene D., to Dow Corning Corporation. Bis (triorganosilyl) phosphate compositions. 3,639,239, 2-1-72, Cl. 252-49.9.
- Groenhof, Eugene D.; and Schiefer, Harry M., to Dow Corning Corporation. Fluorosilicone hydraulic fluids. 3,660,453, 5-2-72, Cl. 260-448.2.
- Groepper, Jurgen; and Sanchez, Jose, to Pennwalt Corporation. Curing and polymerizing processes employing beta-substituted diperoxyketals. 3,686,102, 8-22-72, Cl. 260-2.5ha.
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- Groet, Nicholas H.; and Salminen, Wilho M., to Eastman Kodak Company. Photographic processes and materials. 3,703,375, 11-21-72, Cl. 96-100.000.
- Groetschel, Karl Maria: *See—*
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- Groezeinger, Gerhard, to Mayer & Cie. Electrical pattern mechanism for circular knitting machines. 3,665,731, 5-30-72, Cl. 66-50.
- Groezeinger, John J., to Caterpillar Tractor Company. Marking and detection of subsurface defects in multi-layer hose structures. 3,678,271, 7-18-72, Cl. 250-71.50r.
- Groff, Gaylord L., to Minnesota Mining and Manufacturing Company. Electrically insulative tape. 3,660,220, 5-2-72, Cl. 161-93.
- Groff, Gaylord L.; and Williams, Ronald H., to Minnesota Mining and Manufacturing Company. Metal salt catalysts for epoxy-anhydride resin systems. 3,692,715, 9-19-72, Cl. 260-18.0ep.
- Groff, Richard T.: *See—*
Bryant, William W.; and Groff, Richard T., 3,670,622.
- Grogan, Daniel R. Float-sinker. 3,698,120, 10-17-72, Cl. 43-43.140.
- Grogan, John Thomas: *See—*
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- Grogan, Michael. Umbrella holder. 3,700,149, 10-24-72, Cl. 224-5.100.
- Grogler, Gerhard; and Oertel, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Polymers which contain polyamide, urea and/or urethane groups and process for preparing same. 3,666,726, 5-30-72, Cl. 260-77.5.
- Grogler, Gerhard; and Oertel, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polyamide foams and elastomers from amino-crotonic acid esters. 3,691,112, 9-12-72, Cl. 260-2.5am.
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- Groh, Gunther, to U.S. Philips Corporation. Optical multiplex filter system. 3,671,106, 6-20-72, Cl. 350-162.0sf.
- Groh, Karl Heinz. Mechanism which includes an object arranged to travel freely on a surface. 3,638,357, 2-1-72, Cl. 46-240.
- Groh, Margit; and Oetiker, Alfred, to Ciba Limited. Photographic material containing aliphatic perfluoro compounds. 3,666,478, 5-30-72, Cl. 96-114.5.
- Grohe, Friedrich, Armaturenfabrik: *See—*
Huneke, Egon, 3,704,728.
- Grohoski, Raymond J., to Timex Corporation. Set stem mechanism for watches. 3,635,012, 1-18-72, Cl. 58-99.
- Grolet, Pierre: *See—*
Chatard, Michel; Grolet, Pierre; and Reynard, Remi, 3,697,114.
- Chevalier, Andre; Grolet, Pierre; and Reynard, Remi, 3,641,658.
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- Grolig, Johann: *See—*
Kronig, Walter; and Grolig, Johann, 3,655,759.
- Grolitzer, Arthur J.; and Mounts, Francis E., to Rheem Manufacturing Company. Optical crossbar switching device. 3,678,459, 7-18-72, Cl. 340-166.00r.
- Groll, Manfred; Bien, Hans-Samuel; and Neufang, Karl, to Farbenfabriken Bayer Aktiengesellschaft. Phthalocyanine-sulphonic acid aryl esters. 3,634,451, 1-11-72, Cl. 260-314.5.
- Grolla, Herbert, to Wagner, Heinrich, Maschinenfabrik. Machine for producing casting moulds. 3,672,434, 6-27-72, Cl. 164-187.000.
- Grolman, Bernard, to American Optical Corporation. Apparatus for measuring the acuity of low vision patients. 3,639,042, 2-1-72, Cl. 341-30.
- Grolman, Bernard, to American Optical Corporation. Method of making near-point cards for binocular refraction. 3,692,604, 9-19-72, Cl. 156-108.000.
- Grombka, Walter J.; and Lyon, Lloyd B., to National Machinery Company, The. Press feed. 3,651,920, 3-28-72, Cl. 198-21.
- Gronbach, Wilhelm. Hinge assembly comprising a compression spring for compensating the weight of wings. 3,683,454, 8-15-72, Cl. 16-190.000.
- Groncki, Carole L.: *See—*
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- Groncki, Carole L., to Polaroid Corporation. Pre transferred silver deposit receiving element. 3,639,124, 2-1-72, Cl. 96-29.

- Groneberg, Horst E.; and Snow, Kenneth A., to Bausch & Lomb Incorporated. Segmented deflectible screen surface for testing eyes by laser refraction. 3,659,930, 5-2-72, Cl. 351-36.
- Gronemeyer, Erich W.: *See—*
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- Kutik, Louis F.; and Gronemeyer, Erich W., 3,680,986.
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- Groner, Warren: *See—*
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- Gronfors, Teuvo, to Oy Tampella AB. Adjustable support for ring drilling. 3,702,162, 11-7-72, Cl. 173-43.000.
- Gronka, Edward Anthony, to RCA Corporation. High voltage processing of cathode ray tubes. 3,698,786, 10-17-72, Cl. 316-26.000.
- Gronke, Ronald E.; and Schultz, William H., to Skil Corporation. Circular saw. 3,701,369, 10-31-72, Cl. 143-43.00c.
- Gronquist, Ernest C., Jr.: *See—*
Westeren, Herbert W.; Gronquist, Ernest C., Jr.; Ott, Marvin J., Jr.; and Gunther, Donald E., 3,656,720.
- Gronroos, Charles M.: *See—*
Jacobs, Richard M.; Alexander, Dave W.; and Gronroos, Charles M., 3,661,107.
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Markus, Theodor Hendrik, 3,649,407.
- Gronwald, Walter F. Machine for assembling nails and sealing washers. 3,707,010, 12-26-72, Cl. 10-155.000.
- Gronwick, Jerry P.; Illian, Douglas F.; and Westphal, Donald J., to Sunbeam Corporation. Electric pressing iron. 3,691,660, 9-19-72, Cl. 38-77.830.
- Groom, Robert G.: *See—*
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- Groom, Robert G.; and Brimm, Collen K., to Burroughs Corporation. Recording head mounting and actuator combination. 3,696,351, 10-3-72, Cl. 340-174.10c.
- Groom, William James, to Lion Oil Tool Holdings (International) Limited. Method of making a wear blade for an oil drilling tool. 3,660,889, 5-9-72, Cl. 29-475.
- Groombridge, Denis William, to Courtaulds Limited. Manipulation of filaments. 3,690,975, 9-12-72, Cl. 156-62.200.
- Groos, Horst Hans, to Schloemann Aktiengesellschaft. Tube press with mandrel adjustment. 3,651,680, 3-28-72, Cl. 72-265.
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- Grooss, Frank A.: *See—*
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- Groot, Cornelius, to United States of America, Atomic Energy Commission. Tubing reflectometer. 3,637,314, 1-25-72, Cl. 356-209.
- Groothoff, Adriaan Jacob: *See—*
Van der Heijde, Martin Clemens; and Groothoff, Adriaan Jacob, 3,688,231.
- Groothuis, Hendrik; and Van de Vusse, Jan G., to Shell Oil Company. Selective crystallization of paraxylene in a water-alkanol mixture. 3,643,453, 2-22-72, Cl. 62-58.
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Bosse, Robert W., 3,694,888.
- Groove, Klaus: *See—*
Pohlman, Reimar; Groove, Klaus; and Fichtl, Whalter, 3,682,459.
- Gropelli, Giovanni: *See—*
Vecchio, Martino; Gropelli, Giovanni; and Fattore, Vittorio, 3,650,987.
- Gropp, Karl H., to Ford Motor Company. Engine spark timing control system. 3,698,366, 10-17-72, Cl. 123-117.00a.
- Groppelli, Giovanni: *See—*
Ragazzini, Mario; Caimi, Alberto; Carcano, Donato; and Gropelli, Giovanni, 3,668,167.
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Gierth, Volker; Gropper, Hans; Meitzner, Franc Georg; and Urban, Friedrich, 3,691,145.
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- Gropper, Hans; Mietzner, Franz; Ludwigshafen, Kinkel; Klaus, Rodenkirchen; and Urban, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of homopolymers of ethylene using hydroperoxy-alkylphenylalkanes as catalyst. 3,635,936, 1-18-72, Cl. 260-94.9.
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- Gropper, Lee: *See—*
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- Gros, Wilfried T. Plumb bob device. 3,683,510, 8-15-72, Cl. 33-392.000.
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- Grosbard, Gregory, to Strategic Metals Research, Inc. Card validating apparatus and method. 3,648,242, 3-7-72, Cl. 340-149.
- Grosbard, Gregory, to Strategic Automated Systems, Inc., mesne. Laminated record card comprising internal layer of high tensile strands. 3,662,156, 5-9-72, Cl. 235-61.12.
- Grosberg, Sam, to Freedman and Goodman. Double-ended ball paddle. 3,674,266, 7-4-72, Cl. 273-73.00r.
- Grosboll, Martin P., to Atlantic Richfield Company. Steam distilling pyrolysis gasoline. 3,637,486, 1-25-72, Cl. 208-363.
- Grosch, Gottlieb W. Drill pipe couplings. 3,637,238, 1-25-72, Cl. 285-39.
- Grosch, Gottlieb W. Irrigation apparatus. 3,679,135, 7-25-72, Cl. 239-183.000.
- Grosch, Hermann: *See—*
Ketelsen, Broder; Kiene, Wilfried; and Grosch, Hermann, 3,690,172.
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Dehnert, Johannes; Grosch, Walter; and Gnad, Gerhard, 3,635,939.
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- Groschel, Heinz: *See—*
Brunhorn, Konrad; and Groschel, Heinz, 3,707,153.
- Groschel, Herbert: *See—*
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- Schneider, Joachim; Groschel, Herbert; Kubitzek, Harry; Nawrath, Gunter; and Rudolph, Hans, 3,637,604.
- Groschwitz, Eberhard, to Siemens Aktiengesellschaft. Integrated optical-electronic solid state system having two superimposed circuit planes linked by optical and/or electronic and horizontal and/or vertical connections. 3,636,358, 1-18-72, Cl. 250-211.
- Grosfillex, Raymond E., to Grosfillex S.A.R.L. Chairs. 3,694,030, 9-26-72, Cl. 297-445.000.
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Grosfillex, Raymond E., 3,694,030.
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Thurston, James R.; and Grosgebauer, Roger A., 3,662,645.
- Grosch, James L., to United Aircraft Corporation. Method for longitudinal reinforcing plastic pipes. 3,676,246, 7-11-72, Cl. 156-188.000.
- Grosch, James L., to United Aircraft Corporation. Transverse filament reinforcing tape and methods and apparatus for the production thereof. 3,700,527, 10-24-72, Cl. 156-426.000.
- Groscholz, James R.: *See—*
Crowley, Charles L.; Groscholz, James R.; and Hutter, Charles G., III, 3,675,653.
- Grosjean, Pierre: *See—*
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- Grosjean, Pierre; and Palsky, Alain, to Societe Rhodiacta. Thermoplastic compositions based on polyolefines and polyamides. 3,646,157, 2-29-72, Cl. 260-857.
- Grosjean, Robert M. Apparatus for sharpening leads for pencils or the like. 3,667,516, 6-6-72, Cl. 144-28.11.
- Grosklos, Rill Lewis, to American Cyanamid Company. Solvent process for auramine and ethyl auramine. 3,668,252, 6-6-72, Cl. 260-566.00r.
- Grosko, John A., to United States Steel Corporation. Expandable pressure-sealing device. 3,689,047, 9-5-72, Cl. 266-34.00v.
- Groskops, Ernest, to Spar Aerospace Products Limited. Electrical rotary joint. 3,663,770, 5-16-72, Cl. 200-11.00r.
- Grosman, Erikh Ruvimovich: *See—*
Dyskin, Ernest Matveevich; Raevsky, Georgiy Vladimirovich; Biletsky, Semen Mikhailovich; Burmenko, Eduard Jurievich; Grosman, Erikh Ruvimovich; Sutanovsky, Abram Lazarevich; Kremnev, Oleg Alexandrovich; Zhuravlenko, Viktor Yakovlevich; and Protyschin, Boris Nikolaevich, 3,687,434.
- Gross, Alexander; and Gross, Ilene Astrahan. Optical projector. 3,689,139, 9-5-72, Cl. 353-84.000.
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Schmank, Horst W.; and Gross, Benjamin H., 3,639,664.
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- Gross, Chris: *See—*
United States of America, National Aeronautics & Space Administration, 3,700,897.
- Gross, Clarence R., to Gulf & Western Industrial Products Company, mesne. Electronic control circuit for automatically fed machines. 3,635,390, 1-18-72, Cl. 228-8.

- Gross, Eshcol Silas. Power-operated dolly. 3,698,501, 10-17-72, Cl. 180-8.00a.
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- Gross, Franz, to Siemens Aktiengesellschaft. Delay line for travelling wave tubes. 3,707,646, 12-26-72, Cl. 315-3.500.
- Gross, Frederick A., to International Rectifier Corporation. Positive displacement flowmeter. 3,657,925, 4-25-72, Cl. 73-239.
- Gross, Gabriel, to Manufacture de Machines du Haut-Rhin. Apparatus for making propellants of powder strands. 3,647,200, 3-7-72, Cl. 269-51.
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- Gross, Harry, to Canadian Patents and Development Limited. Susceptibility meter for field use for determining susceptibility of a rock outcrop. 3,665,296, 5-23-72, Cl. 324-34.
- Gross, Henry; and Gross, Samuel, to Gross Cash Registers Limited. Cash registers and other accounting machines. 3,691,360, 9-12-72, Cl. 235-168.000.
- Gross, Henry W. Laundry folding accessory. 3,689,059, 9-5-72, Cl. 269-100.000.
- Gross, Ilene Astrahan: See—
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- Gross, Maurice J., to Chemetron Corporation, mesne. Railfeeding device. 3,661,310, 5-9-72, Cl. 226-108.
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- Gross, Robert I., to Pall Corporation. Flow indicator and valve. 3,633,612, 1-11-72, Cl. 137-498.
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Spencer, Donald J.; Mirels, Harold; Jacobs, Theodore A.; and Gross, Rolf W. F., 3,688,215.
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- Gross, Werner L., to Akron Standard, division of Eagle-Picher Industries, Inc. Segmented mold. 3,682,576, 8-8-72, Cl. 425-46.000.
- Gross, William J., to Data Instruments Company. Magnetic tape cassette changer. 3,658,193, 4-25-72, Cl. 214-6.
- Gross, William J. Self-propelled boat. 3,695,211, 10-3-72, Cl. 115-26.000.
- Gross, William Keith, to Canadian Seating Company Limited. Flushing system. 3,648,298, 3-14-72, Cl. 4-100.
- Gross, William R. Method and apparatus for raising and harvesting fish. 3,678,898, 7-25-72, Cl. 119-3.000.
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- Grosse, Aristid V., to Reynolds Metals Company, mesne. Method of reducing reaction between adjacent layers of liquid substances having different densities. 3,677,326, 7-18-72, Cl. 165-1.
- Grosse, Aristid V., to Reynolds Metals Company. Method for heating hydrogen gas. 3,682,775, 8-8-72, Cl. 176-40.000.
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- Grosse, Peter: See—
Ponsold, Kurt; and Grosse, Peter, 3,663,580.
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- Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Transmission and clutch with manual pulse switch. 3,631,946, 1-4-72, Cl. 192-3.58.
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- Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Ventilation device for automotive vehicles. 3,661,069, 5-9-72, Cl. 98-2.05.
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Hartmann, Hans Joerg; Schnell, Georg; Werst, Gerhard; Grosselfinger, Horst; Hartmann, Job-Werner; and Bipp, Hansjoerg, 3,704,152.
- Grosselfinger, Josef: See—
Muller, Adolf M.; and Grosselfinger, Josef, 3,705,441.
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Veerling, Crenraad W. N.; and Grossen, Victor A., 3,693,665.
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Simon-Vermot, Andre; and Grossenbacher, Charles-Andre, 3,676,998.
- Grosser, Frederick: See—
Barabas, Eugene S.; and Grosser, Frederick, 3,652,481.
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Collette, Harold J.; and Grosser, Harry W., 3,707,061.
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Winstanley, Roy D. J.; Grossett, Alfred H.; and Harrington, Wilfred H., 3,654,007.
- Grosshauser, Anton: See—
Laosig, Harry; and Grosshauser, Anton, 3,685,233.
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Grossman, Abraham; and Lee, Eugene C., 3,691,326.
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- Grossman, Morris Gary, to Peter's Bag Corporation. Method of molding hollow article with molded-in fastener. 3,654,003, 4-4-72, Cl. 156-66.
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Stern, Kenneth; Stern, Karen; and Spoon, Robert, 3,705,387.
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Keller, Heinz; and Grossmann, Hans, 3,649,654.
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Burckhardt, Manfred H.; Florus, Hans-Jorg; and Grossner, Horst, 3,667,813.
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Weber, Klaus; Becker, Erwin; and Grosstuck, Werner, 3,668,080.
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- Grote, James E. Machine for slicing sausage and applying the slices to pizza in a predetermined pattern. 3,633,450, 1-11-72, Cl. 83-201.
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- Grotefend, William H., to Computing & Software, Inc. Envelope. 3,652,008, 3-28-72, Cl. 229-85.
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- Grotewald, Hans W.; and Bryan, Don S. Apparatus for preparing citrus halves. 3,638,695, 2-1-72, Cl. 146-3.
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Straub, Bruno E.; and Grotewold, William H., 3,685,395.
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- Uhtenwoldt, Herbert R.; Grotewold, William H.; and Straub, Bruno E., 3,650,076.
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- Groth, George Stephen, to Bell Telephone Laboratories, Incorporated. Program for polling party line data stations for message pickup. 3,702,008, 10-31-72, Cl. 444-1.000.
- Groth, Rolf; Van Boort, Henricus Johannes Joseph; and De Neve, Gerard Marie Jules, to U.S. Philips Corporation. Method of manufacturing glass articles having a heat-reflecting film. 3,666,534, 5-30-72, Cl. 117-97.000.
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Boden, Karl; and Scheffer, Dietrich, 3,650,581.
- Grothe, Wolfgang: See—
Brill, Klaus; and Grothe, Wolfgang, 3,651,781.
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- Grotheer, Morris P., to Hooker Chemical Corporation. Crystallization of a metal chlorate from a chlorate-chloride containing solution. 3,690,845, 9-12-72, Cl. 23-300.000.
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Biglin, Duane O.; and Grothjan, Jerome R., 3,634,182.
- Grotjahn, Heinz: See—
Meyer, Gerhard; Grotjahn, Heinz; Magerlein, Helmut; Rupp, Hans-Dieter; Michael, Erlenbach; and Schopf, Albert, 3,661,502.
- Schopf, Albert; Wallrabenstein, Michael; Rupp, Hans-Dieter; Magerlein, Helmut; Grotjahn, Heinz; and Meyer, Gerhard, 3,661,836.
- Grottes Machine Works, Inc.: See—
Stettler, Christian H., 3,662,940.
- Grottrup, Helmut: See—
Dethloff, Jurgen; and Grottrup, Helmut, 3,641,316.
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- Grotz, Norman; and Maccarone, Michael B. Pressurized dispenser. 3,698,595, 10-17-72, Cl. 220-63.00r.
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Wood, John W., Jr., 3,702,731.
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Carbonnel, Henri; and Le Frere, Jean, 3,656,867.
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- Malaval, Claude Rene Jean, 3,684,301.
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Ashdown, Neil Clifford; and Grottsch, Eugene Reginald, 3,672,650.
- Grove, Byron F. Multi-frequency sampling system and method. 3,636,771, 1-25-72, Cl. 73-421.
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Long, George E., III; Grove, Francis D.; and Bartch, Donald W., 3,635,751.
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- Grove, Leroy K. Electromagnet for brakes and clutches. 3,668,445, 6-6-72, Cl. 310-77.000.
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- Scott, Kelley E., Jr.; Kemper, Daryl M.; Grove, Lloyd E.; and Kiess, Ronald J., 3,656,217.
- Grove Manufacturing Company: *See—*
- Destefan, John F.; Ezolt, James J.; and Benchoff, James Martin, 3,641,764.
- Ghysels, David G., 3,686,765.
- Keller, Joseph H., Jr.; and Sterner, Russell L., 3,677,417.
- Sterner, Russell L.; and Lowe, William L., 3,641,551.
- Sterner, Russell L., 3,684,324.
- Sung, Fu-Tien, 3,690,742.
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- Brumm, Richard S., 3,631,891.
- Brumm, Richard S., 3,690,344.
- Chow, Peter C. M., 3,672,632.
- Flor, Eugene Frank, 3,631,747.
- Gerbic, Charles C., 3,669,142.
- Parola, Gary D., 3,693,659.
- Piccardo, Jack E., 3,666,237.
- Ripert, Roger Louis, 3,632,084.
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- Campbell, Curtis B.; and Grover, Ben L., 3,664,192.
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- Nothum, Andrew; Thomas, Billy W.; and White, Abram L., 3,670,553.
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- Grover, Scott C.: *See—*
- Richens, Kenneth A.; Grover, Scott C.; Allred, James K.; and Shook, James H., 3,632,001.
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- Groves, Ermy W., 3,651,570.
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- Groves, Frank R.; and Denard, Ralph A. Tree shear and delimeter. 3,633,638, 1-11-72, Cl. 144-3.
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- Wakefield, Norman; Alexander, Stuart John; Morrish, James Francis Gerrards Cross; Beck, William; Groves, Raymond Sturgis; and Harvey, Michael J., 3,678,644.
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- Groves, Sydney L.; Kuchta, Frank J.; Lewis, J. Stephen; Maurer, Donald J.; May, Richard L.; Ryan, John W.; and Vowles, Colin, to Mattel, Inc. Adjustable hair doll. 3,670,451, 6-20-72, Cl. 46-135.000.
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- Purnell, John M., 3,667,682.
- Grow, Paul E. Detachable handle for containers. 3,652,115, 3-28-72, Cl. 294-27.
- Grow, Richard W.: *See—*
- Price, Vernon G.; and Grow, Richard W., 3,641,465.
- Growald, Bert: *See—*
- Levy, Robert M.; Thiessen, Robert J.; and Growald, Bert, 3,653,894.
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- Grownay, Lawrence J., to Continental Can Company, Inc. Book-type carton. 3,698,544, 10-17-72, Cl. 206-45.110.
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- Cachat, John F., 3,705,285.
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- Yates, George, Jr., 3,638,296.
- Yates, George, Jr., 3,677,430.
- Groz, Theodor: *See—*
- Berentzen, Harro, 3,699,784.
- Groz, Theodor & Beckert, Ernst Nadelfabrik Commandit-Gesellschaft: *See—*
- Wiederhut, Wolfgang; Landenberger, Helmut; and Hofmann, Ulrich, 3,677,035.
- Grozier, John David: *See—*
- Korchynsky, Michael; Grozier, John David; Mihelich, John L.; Bell, John R.; and Luyckx, Leon, 3,666,452.
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- Niedrach, Leonard W.; and Grubb, Willard T., 3,635,763.
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- Grubb, Willard T., to General Electric Company. Seal and closure for ion-selective electrode. 3,664,537, 5-23-72, Cl. 220-2.1.
- Grubb, Willard T., to General Electric Company. Hydrogen ion-selective sensor. 3,671,414, 6-20-72, Cl. 204-195.000.
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- Grubb, Willard T., to General Electric Company. Reference electrode half cell. 3,705,089, 12-5-72, Cl. 204-195.000.
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- Schwack, Gunter; Ruster, Heinz; Gruger, Wolfgang; and Mantuffel, Ernst, 3,657,487.
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- Siller, Imre, 3,661,394.
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Ahrnholm, Par; Grune, Per-Olof; and Nygaard, Tore, 3,683,142.
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Juttner, Alwin; and Gruner, Hans, 3,705,614.
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Bratzler, Karl; Doerges, Alexander; Hochgesand, Gerhard; and Grunewald, Gerhard, 3,653,810.
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Bereczky, Tibériu; Grunwald, Ernest; and Crisan, Ioan, 3,637,475.
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Brown, Sharon D.; D'Ottavio, Eugene D.; Kuzmik, John J.; and Grunwald, John J., 3,682,786.
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Eberle, Hans; and Wuttke, Gerhard, 3,640,921.
- Krzyzanowski, Erich, 3,678,989.
- Mechel, Fridolin; and Kummermehr, Hans, 3,679,443.
- Meyer, Erwin; Brendel, Klaus-Dieter; Blau, Hans; and Stoof, Gerhard, 3,647,022.
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Barta, Franz; and Grupp, Alfred F., 3,694,928.
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Joannes, Giuseppe, 3,672,336.
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Bellasio, Elvio; Testa, Emilio; and Maffii, Giulio, 3,644,361.
- Crivellaro, Giovanbattista; and Crestani, Bruno, 3,696,195.
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- Nathansohn, Giangiacomo; Odasso, Gianfranco; De Ruggieri, Pietro; and Guzzi, Umberto, 3,641,007.
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- Thiemann, Josef Ernst; and Pagani, Hermes, 3,700,558.
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Ionescu, Ieodor D.; Uta, Londra Gheorghe F.; and Teodoru, Crizantemelor Aurel D., 3,681,214.
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Hampel, Gerald; and Gruss, Hansgeorg, 3,640,663.
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Bretschneider, Hermann; Grassmayr, Klaus; Hohenlohe-Oehringen, Kraft; and Grussner, Andre, 3,654,357.
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Vasiliev, Mikhail Ivanovich; and Gruzinov, Evgraf Vladimirovich, 3,638,375.
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Makarov, Gleb Nikolaevich; Zhitov, Boris Nikolaevich; Zagorets, Anatoly Mikhailovich; Korolev, Jury Germanovich; Syskov, Konstantin Ivanovich; Filonenko, Jury Yakovlevich; Dvorin, Semen Semenovich; Lerner, Ruvim Zinovievich; Mustafin, Fuat Akhtemovich; Semnov, Alexandr Semenovich; Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich, 3,667,746.
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DuPont, Ronal Charles, 3,643,987.
- Goto, Kazuhiro, 3,669,389.
- Taylor, Ronald W., 3,648,489.
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Bruglemans, Lucas, 3,660,604.
- Businelli, Pietro, 3,660,750.
- Couch, Francis O., 3,668,423.
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- Eddy, John W., 3,678,208.
- Eddy, John W.; Fitch, Harold G.; Mui, Wing F.; and Valente, Angelo M., 3,681,537.
- Foster, James Harold, 3,703,708.
- Gartner, Todd H., 3,660,682.
- Golja, Joseph, 3,702,469.
- Jaster, Dale R.; and Nasby, James S., 3,678,376.
- Kuster, Karl H., 3,703,717.
- Lender, Adam; and Olszanski, Henry H. P., 3,633,105.
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- Panter, Robert B.; Dufton, John Peter; Duthie, Robert W.; and Verbaas, George, 3,678,197.
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- Reimer, William A., 3,678,422.
- Reimer, William A.; and Storz, Frederick G., 3,698,058.
- Reimer, William A., 3,699,393.
- Rekiere, Bernard J., 3,637,941.
- Rogers, Robert G., 3,699,475.
- Sheahan, Desmond F.; and Callander, George C., 3,699,916.
- Storz, Frederick G., 3,671,958.
- Symes, Clifford Edward, 3,673,366.
- Van Bosse, John G., 3,636,518.
- Warman, Bloomfield J., 3,646,303.
- Weber, Vernon F., 3,638,038.
- Wedmore, William R., 3,678,344.
- Zellmer, Neale A.; and Johnson, Wayne B., 3,670,233.
- Zimmermann, Joseph James, 3,645,538.
- Zimmermann, Joseph James, 3,671,043.
- GTE Information Systems Incorporated: See—
Stites, Francis H., 3,689,898.
- GTE Laboratories, Incorporated: See—
Airey, John M., 3,656,050.
- Blank, Hans G.; and Greene, Richard M., 3,643,253.
- Brecher, Charles; Pappalardo, Romano; and Samelson, Harold, 3,677,959.
- Buhrer, Carl F., 3,654,162.
- Chan, Joseph Y.; and Gupta, Dinesh C., 3,644,829.
- Chan, Joseph Y.; and Gupta, Dinesh C., 3,646,436.
- Cluett, Ronald D., 3,700,956.
- Feuersanger, Alfred E.; and Wassermann, Moe S., 3,699,409.
- Fischman, Martin, 3,678,331.
- Greene, Richard M., 3,663,888.
- Greene, Richard M., 3,675,143.
- Hagenlocher, Arno K., 3,637,972.
- Kocher, Robert C.; and Samelson, Harold, 3,663,891.
- Kocher, Robert C.; Moore, Franklin K.; Samelson, Harold; and Watson, William R., 3,678,410.
- Larka, Vincent E., 3,681,750.
- Peters, Thomas E., 3,639,254.
- Proakis, John G., 3,657,669.
- Wacher, Paul, 3,638,060.
- GTE Sylvania Incorporated: See—
Abbott, Matthew C.; Ashley, Albert H.; and Garrigus, Kenneth A., 3,666,970.
- Aley, Albert H., 3,662,191.
- Arrington, William L.; Gantt, Wayne Carlton; and Gouger, Leonard Joseph, 3,671,903.
- Arumugham, Rangaswamy, 3,700,787.
- Ballard, Paul E.; and Gannoe, Thomas E., 3,694,613.
- Bidell, Frederick W.; and Hughes, Richard J., 3,676,794.
- Boelke, Gilbert L., 3,694,766.
- Buescher, William E.; and Kerstetter, Donald R., 3,699,378.
- Burney, Charles F., 3,670,058.
- Carpenter, Mark E.; and Smithgall, Harry E., 3,704,387.
- Chiola, Vincent; and Dodds, Phyllis R., 3,674,464.
- Dale, Brian, 3,697,830.
- Dale, Ernest A.; and Thomas, Martha J. B., 3,654,174.
- Decker, John J.; and Kerstetter, Donald R., 3,691,421.
- Donofrio, Robert L.; and Rehkopf, Charles H., 3,697,301.
- Eckenbrecht, Robert Roy, 3,700,795.
- Fisher, Mahlon B.; Schiller, Charles K.; and Ziemelis, Ojars J., 3,668,388.
- Foreman, Gordon T., 3,689,356.
- Frey, James O.; Marshall, Harry L.; and Minnier, Henry B., 3,704,232.
- Gaebele, Rolf; and Jones, Jack H., 3,691,302.
- Garrigus, Kenneth A., 3,639,779.
- Gump, J. R.; Kim, Tai K.; and Long, Robert E., Jr., 3,702,233.
- Gupta, Dinesh C., 3,645,631.
- Hartman, Raymond G., 3,677,096.
- Hunton, James Keith; Kelly, Wayne M.; and Takeuchi, James S., 3,678,395.
- Krukowski, William Frank; and Siwko, Karol, 3,699,455.
- Little, John C., 3,677,652.
- Lovelace, Ralph E., 3,639,780.
- Lovelace, Ralph E., 3,639,786.
- Lucas, Raymond David, 3,702,998.
- Macey, Frank G., 3,646,324.
- Manley, Harold J.; and Shaffer, Harry L., 3,681,530.
- Meyer, Edward, 3,706,582.
- Neal, Charles Bailey; and Scott, Benton Boyd, 3,706,849.
- Ng, David M.; and Rehkopf, Charles H., 3,664,295.
- Paget, Fredrick W., 3,644,818.
- Passmore, Edmund M., 3,636,303.
- Passmore, Edmund M., 3,636,304.
- Passmore, Edmund M., 3,636,305.
- Peterson, Carl L., 3,706,898.
- Press, Meyer; Teixeira, James F.; and Wolff, Gerald, 3,633,051.
- Press, Meyer, 3,636,381.
- Rhee, Dong Woo, 3,700,803.
- Ryan, John T.; and Ingalls, Jeffrey D., 3,671,809.
- Say, Donald L., 3,702,020.
- Shaffer, John W.; and McDonough, Thomas B., 3,665,176.
- Siwko, Karol, 3,706,846.
- Smith, James S.; Clare, Leslie Paul; and Kubicki, Robert M., 3,690,876.
- Stefani, Richard D., 3,665,253.
- Thomas, Martha J. B.; Dale, Ernest A.; and Butler, Keith H., 3,654,173.
- Torsch, Charles Edward, 3,671,897.
- Wanner, Louis R., 3,701,920.
- Waybright, George Cleveland, 3,681,712.
- GTI Corporation: See—
Bailey, Richard J., 3,648,108.
- Hetzer, Harry, 3,661,291.
- Guadagnini, Giuseppe; and Fabi, Franco, to Pierrel S.p.A. Kanamycin embonate. 3,691,151, 9-12-72, Cl. 260-210.00k.
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- Guala, Piergiacomo, to Societa Angelo Guala di Piergiacomo E. Roberto Guala & C.S.A.S. Liquid measuring and dispensing bottle closure device. 3,707,247, 12-26-72, Cl. 222-188.000.
- Gualano, Emil V. Automobile staff holder. 3,643,902, 2-22-72, Cl. 248-40.
- Gualdi, Giorgio: See—
Reni, Cesare; Lugo, Luigi; and Gualdi, Giorgio, 3,673,244.
- Reni, Cesare; Gualdi, Giorgio; and Lugo, Luigi, 3,674,845.
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- Gualdi, Giorgio: See—
Lugo, Luigi; Gualdi, Giorgio; and Reni, Cesare, 3,703,547.
- Guanella, Gusta: See—
Eggimann, Fritz; Guanella, Gusta; Tiesnes, Manfred; and Wigdorovits, Ivan, 3,633,172.
- Guanella, Gustav, to Patenhold Patentverwertungs- und Elektro-Holding AG. Message scrambling apparatus for use in pulsed signal transmission. 3,651,261, 3-21-72, Cl. 178-22.
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Donnan, David H., 3,643,809.

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- Guardian Electric Manufacturing Company: *See—*
Kaderbek, Charles J.; and Vojir, Franks, 3,684,850.
Obsarny, Theodore J., 3,689,857.
Sadogierski, Walter C.; and Wright, William W., 3,651,446.
Sadogierski, Walter C., 3,671,686.
- Guardian Industries Corporation: *See—*
McMaster, Harold A., 3,678,628.
McMaster, Harold A., 3,700,425.
- Guarino, Henry R.: *See—*
Federico, Armando; and Guarino, Henry R., 3,698,381.
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Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
- Gubarev, Yakov Fedorovich: *See—*
Zalyaliev, Mansur Abdullovich; Asfandiyarov, Khalim Akhmetovich; Gubarev, Yakov Fedorovich; and Arzamastsev, Filipp Grigorievich, 3,693,934.
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Gubelmann, William S., 3,655,953.
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Maximovich, Boleslav Ivanovich; Dudko, Daniil Andreevich; Agafonov, Nikolai Georgievich; Maximov, Igor Petrovich; Andreev, Vadim Grigorievich; Lepilov, Nikolai Yakovlevich; Svinov, Alexei Kapitonovich; Slonimsky, Alexandr Borisovich; Volk, Boris Zakharovich; Gubin, Alexandr Ivanovich; and Katsman, Berta Osipovna, 3,677,330.
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Bohner, Beat; and Gubler, Kurt, 3,689,500.
Bosshard, Rene; Gubler, Kurt; Aufderhaar, Ernest; and Brenneisen, Paul, 3,676,450.
Brechtbuhler, Hans Ulrich; and Gubler, Kurt, 3,673,236.
Rutz, Hans; and Gubler, Kurt, 3,674,874.
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- Gubler, Michel: *See—*
Feiner, Maria; Gubler, Michel; and Guillon, Joseph, 3,677,942.
- Gubner, Richard S.: *See—*
Schole, Murry L.; and Gubner, Richard S., 3,699,221.
- Guckel, Gerhart A., to Dale, James, Corporation. Conveying system. 3,687,261, 8-29-72, Cl. 198-25.000.
- Guckel, Helmut: *See—*
Arlt, Manfred; Dathe, Joachim; and Guckel, Helmut, 3,694,708.
- Gucstella, Samuel L.: *See—*
Dentch, Milton P.; Jodrey, Robert M.; Gucstella, Samuel L.; and Larrivee, Jerry J., 3,690,297.
- Guczoghy, Lajos; Puklics, Maria; Kelemen, Gyorgy; and Leszkovsky, Gyorgy, to Chinoin Gyogyszer-es Vegyeszeti Termekek Gyara RT. Phosphoric acid salt of 4-methyl-5- β -chloro-ethyl-thiazole. 3,639,415, 2-1-72, Cl. 260-302.
- Gudath, Ernest Andrew: *See—*
Hollingsworth, Clinton A.; Snyder, John Harold; and Gudath, Ernest Andrew, 3,677,701.
- Gudaz, John A.: *See—*
Keyes, Marion A., IV; and Gudaz, John A., 3,654,075.
Keyes, Marion A., IV; and Gudaz, John A., 3,658,642.
- Guddal, Gunnar: *See—*
Guddal, Karl; and Guddal, Gunnar, 3,682,575.
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Schmitt, Karl; Gude, Fritz; and Brandt, Siegfried, 3,673,273.
Schmitt, Karl; Gude, Fritz; and Brandt, Siegfried, 3,673,277.
Schmitt, Karl; Gude, Fritz; and Brandt, Siegfried, 3,692,749.
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Anneberg, Vilhelm; Clemmensen, Ellen; Gudmandsen, Robert; and Scheibel, Axel, 3,700,829.
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Guedel, Arthur R., 3,698,389.
- Gueguen, Michel M. F. Pylons. 3,662,504, 5-16-72, Cl. 52-123.
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Fox, Jack N.; Hansen, Ned P.; Olich, Eugene E.; Guenther, Ralph W.; and Rubinstein, Herbert J., 3,660,231.
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De Pietro, Alfonso; and Kuehl, Guenther L., 3,653,490.
Kuehl, Guenther L., 3,679,074.
Kuehl, Guenther L.; and Coelln, Axel, 3,690,439.
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Kunkel, Ernst, 3,682,681.
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Wehren, Peter; Vollmer, Klaus; Guenther, Wolfgang; and Kick, Rolf, 3,687,790.
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Berding, Christoph; Guenther, Paul; Koehler, Waldemar; and Schulz, Gerhard, 3,668,246.
Berding, Christoph; Guenther, Paul; Schulz, Gerhard; and Koehler, Waldemar, 3,689,543.
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Stivers, David A.; and Guenther, Richard A., 3,632,788.
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Beghelli, Benito; Vacanti, Francesco; and Guerani, Giampaolo, 3,681,280.
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Cruikshank, David G.; and Guerin, David T., 3,672,542.
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Barassi, Carlo; Lugli, Giuseppe; Mezzanotte, Mario; and Guermandi, Romano, 3,690,364.
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Lo Monaco, Sergio; Guerrato, Alfredo; Fabbro, Dario; and Donadello, Graziello, 3,671,493.
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Dorn, Rolf K.; Maddock, Maldwyn J.; and Guerrieri, Salvatore A., 3,663,645.
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Aronson, Arthur H.; Lichy, Edward J.; Guess, Clifford A.; and Samways, Norman L., 3,661,537.
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Satchell, Eric William, 3,680,271.
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Lehnerer, Wolfgang; Gueterbock, Hermann; and Kinkel, Klaus, 3,634,381.
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Alsup, Michael J.; and Guevara, Alfredo R., 3,647,446.
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Alsup, Michael J.; and Guevara, Alfredo Ruben, 3,703,373.
- Guevara, Balagtas F.: *See—*
Heusdens, Wilhelmus; and Guevara, Balagtas F., 3,692,531.
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- Gugelot Design GmbH: *See—*
Preisinger, Franz; and Reichl, Ernst, 3,635,151.
- Guggenbickler, Leon E.: *See—*
Russell, Phillips G.; Guggenbickler, Leon E.; and Crawford, John H., 3,675,791.
- Guggi, Walter B., to Regus AG. Inverter for generating single or multiphase current. 3,638,098, 1-25-72, Cl. 321-43.
- Guggi, Walter Bernhard. Stabilized sine wave inverter. 3,671,845, 6-20-72, Cl. 321-20.000.
- Guggisberg, Ernst, to Graphcart Internationale Ausrüstungs-gesellschaft fur graphische Kunst AG. Machine for automatically stacking journals counted in previously selected numbers. 3,650,372, 3-21-72, Cl. 198-75.
- Gugin, Robert J., to Agristeel Limited. Steering device for cultivating implements. 3,677,349, 7-18-72, Cl. 172-285.000.
- Guglielmetti, Leonardo: *See—*
Liechti, Peter; Maeder, Erwin; Guglielmetti, Leonardo; and Siegrist, Emil, 3,682,900.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo, 3,642,783.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo, 3,644,345.
Siegrist, Adolf Emil; Maeder, Erwin; Liechti, Peter; and Guglielmetti, Leonardo, 3,687,880.
- Guglielmetti, Leonardo; and Duennenberger, Max, to Ciba-Geigy AG. Cosmetic preparation containing 2-phenyl-benzoxazoles. 3,696,193, 10-3-72, Cl. 424-59.000.
- Guglietti, Henry G., to Plastics Materials Systems, Inc. Proportionat-ing blender. 3,638,922, 2-1-72, Cl. 259-154.
- Gugin, Jury Yakovlevich: *See—*
Pluzhnikov, Viktor Mikhailovich; Kalantarov, Karl Davidovich; Gugin, Jury Yakovlevich; Semenov, Valentin Sergeevich; Zelenina, Valentina Vasilievna; and Filatov, Albert Ivanovich, 3,690,309.
- Gugol-Clini-Tex, Inc.: *See—*
Horonick, Andrew; and Munschy, Andre V., 3,678,151.
- Guha, Dwipendra Nath, to V-M Corporation. Phonograph tone arm. 3,682,485, 8-8-72, Cl. 274-23.00r.
- Guhl, Jay F. Fork lift refuse bin and baler accessory. 3,691,945, 9-19-72, Cl. 100-229.00r.
- Guhr, Karl; Vernalen, Hugo; Heine, Hans-Georg; Rudolph, Hans; and Schnell, Hermann, to Farbenfabriken Bayer Aktien-gesellschaft. Benzoin-silyl-esters. 3,636,026, 1-18-72, Cl. 260-448.8.
- Guichard, Jean-Claude: *See—*
Rabilloud, Pierre; and Guichard, Jean-Claude, 3,686,836.
- Guicherod, Roger H.: *See—*

- Denis, Pierre M.; and Guicherd, Roger H., 3,663,107.
 Guichet, Niles F. Adhesive paper. 3,635,781, 1-18-72, Cl. 161-6.
 Guichon, Robert Julien Joseph. Direct sluice valve for pipes conveying products at high temperature. 3,669,149, 6-13-72, Cl. 137-625,480.
 Guida, Vito: *See—*
 Garrison, Donald R., 3,660,958.
 Guidi, Guido N.: *See—*
 Kahl, Gerald J.; and Guidi, Guido N., 3,705,533.
 Guidicelli, Charles, to Societe Anonyme STOP. Electromagnetic pump. 3,701,614, 10-31-72, Cl. 417-413,000.
 Guidicelli, Charles, to Societe Anonyme STOP. Control system for a windshield wiper and cleaner unit. 3,701,934, 10-31-72, Cl. 318-102,000.
 Guido, Jurgen. Clearance compensating mechanism, especially for valve drives of internal combustion engines. 3,670,707, 6-20-72, Cl. 123-90,570.
 Guido, Louis A.: *See—*
 Arlen, David; Guido, Louis A.; and Quinn, Lawrence P., 3,707,634.
 Guido, Paul V.: *See—*
 Romanowski, Chester J.; and Guido, Paul V., 3,638,034.
 Guidotti, Vincenzo: *See—*
 Mortillaro, Luigi; Russo, Mario; and Guidotti, Vincenzo, 3,647,765.
 Guier, William. Oil well drilling apparatus. 3,682,262, 8-8-72, Cl. 175-205,000.
 Guier, William. Pipe tongs. 3,703,111, 11-21-72, Cl. 81-57,340.
 Guigan, Jean, to Hoffmann-La Roche Inc. Storage and distribution apparatus. 3,633,768, 1-11-72, Cl. 214-8.5.
 Guigan, Jean, to Hoffmann-La Roche Inc. Apparatus for transferring liquids. 3,677,091, 7-18-72, Cl. 73-423,00a.
 Guignon, Helen G.: *See—*
 Guignon, John E.; Guignon, Helen G.; and Guignon, John E., Jr., 3,696,825.
 Guignon, John E.; Guignon, Helen G.; and Guignon, John E., Jr. Tank washer. 3,696,825, 10-10-72, Cl. 134-167,00r.
 Guignon, John E., Jr.: *See—*
 Guignon, John E.; Guignon, Helen G.; and Guignon, John E., Jr., 3,696,825.
 Guiguizian, Jacques: *See—*
 Grenda, Edward P.; Guiguizian, Jacques; and Shneider, Harold M., 3,693,019.
 Guilbaud, Jean-Pierre: *See—*
 Germond, Jean-Claude; Guilbaud, Jean-Pierre; and Vertut, Jean, 3,664,517.
 Guilbault, Lawrence J.; and Schwenker, David G., to General Electric Company. Method of coating slotted articles. 3,660,136, 5-2-72, Cl. 117-17,000.
 Guild, Carl H., Jr.: *See—*
 Leith, Frank A.; and Guild, Carl H., Jr., 3,634,738.
 Guild, John R.: *See—*
 Rauner, Frederick J.; Arcesi, Joseph A.; and Guild, John R., 3,647,443.
 Guild Metal Joining Equipment Company: *See—*
 Wheeler, Donald J., 3,632,035.
 Guild Metal Products, Inc.: *See—*
 De Cesaris, Frederick, 3,643,608.
 Guild Molders, Inc.: *See—*
 Davidson, Emil, 3,654,939.
 Guilford, Leslie Henry; and Mitchell, Richard Frank, to U.S. Philips Corporation. Radiation detection system using pseudo-random reversible scanning techniques. 3,660,663, 5-2-72, Cl. 250-83.3.
 Guidline Instruments Limited: *See—*
 Malcolm, Ian, 3,689,824.
 Guilette, Kenneth J.: *See—*
 Rupprecht, Walter E. F.; and Guilette, Kenneth J., 3,632,791.
 Guilford, Peter: *See—*
 Cleaver, John Stephen; Guilford, Peter; Kimpton, Frederick James; Page, Thomas John; and Steinberg, Norman Richard, 3,667,119.
 Cleaver, John Stephen; Guilford, Peter; Kimpton, Frederick James; Page, Thomas John; and Steinberg, Norman Richard, 3,688,397.
 Guilfoyle, Edward C., Sr. Coupling devices. 3,687,499, 8-29-72, Cl. 287-127,00r.
 Guilfoyle, Le Roy F., to Parachutes Incorporated. Parachute stowage and deployment. 3,690,604, 9-12-72, Cl. 244-148,000.
 Guilhem, Robert G. L.: *See—*
 Carpentier, Michel F.; and Guilhem, Robert G. L., 3,657,738.
 Guilhem, Robert Germain; and Fouche, Yvon Pierre Jean, to Compagnie Francaise Thomson-Houston. Pulse compressor system. 3,686,572, 8-22-72, Cl. 325-321,000.
 Guillamon, Alfonso. Child's stroller. 3,679,222, 7-25-72, Cl. 280-36,00r.
 Guillaume, Andre: *See—*
 Auge, Jacques; Guillaume, Andre; and Tourniaire, Claude, 3,644,606.
 Guillemette, Gilbert Auguste; and Delorme, Michel Jean, to AMP Incorporated, mesne. Apparatus for applying insulating housings to electrical connectors. 3,667,102, 6-6-72, Cl. 29-203.
 Guillemin, Claude; and Badin, Jean-Claude, to Produits Chimiques Pechiney-Saint-Gobain. Flame ionization detector assembly. 3,658,481, 4-25-72, Cl. 23-254.
 Guillermin, Jacques. Packaging and display case for cigarette lighter. 3,682,298, 8-8-72, Cl. 206-45,310.
 Guillermin, Rene; and Joly, Jean, to Societa Rhodiaca. Process for producing yarns showing novel varying colour effects. 3,644,969, 2-29-72, Cl. 28-72,14.
 Guillet, Hubert; and Le Goff, Denis, to Compagnie Generale d'Electricite. Laser synchronizing arrangement for photographic illumination. 3,643,568, 2-22-72, Cl. 95-11.5.
 Guillet, Hubert; Jacob, Louis; Mouchart, Jacques; and Sturel, Bernard, to Commissariat a l'Energie Atomique. Device for improving the homogeneity of a laser beam. 3,663,087, 5-16-72, Cl. 350-150.
 Guillet, Philippe Robert, to L'Oreal. Device for withdrawing samples. 3,675,491, 7-11-72, Cl. 73-425,40r.
 Guillet, Remi Pierre Leon Alain: *See—*
 Glachant, Luc Clement Dominique; and Guillet, Remi Pierre Leon Alain, 3,692,017.
 Guillo, Jacques: *See—*
 Hondermarck, Jean Claude; Bennett, Ian Cameron; and Guillo, Jacques, 3,705,082.
 Guillon, Joseph: *See—*
 Feiner, Maria; Gubler, Michel; and Guillon, Joseph, 3,677,942.
 Guillory, Jack P.: *See—*
 Mathis, Ronald D.; and Guillory, Jack P., 3,644,279.
 Guillory, Jack P.; and Cook, Charles F., to Phillips Petroleum Company. Method of testing polymer stabilizers. 3,636,348, 1-18-72, Cl. 250-52.
 Guillot, Francis Jacques. Coin size tester preventing fraudulent operation of parking meters. 3,701,600, 10-31-72, Cl. 194-74,000.
 Guillot, Jack, to Etablissements Bennes Marrel. Combustion chamber for gas turbine. 3,650,106, 3-21-72, Cl. 60-39,65.
 Guillot, Jack, to Bennes Marrel. Device for the output shaft of a gas turbine. 3,652,178, 3-28-72, Cl. 415-110.
 Guillot, Jean: *See—*
 Melquion, Henri; Stauff, Emile; and Guillot, Jean, 3,654,030.
 Stauff, Emile; Guillot, Jean; Allard, Pierre; Schubert, Johannes; Topfer, Heinz; and Prier, Erich, 3,653,288.
 Guillot, Joseph M., Jr.: *See—*
 Burke, Jack J.; and Guillot, Joseph M., Jr., 3,698,621.
 Guillot, Pierre; and Vuillot, Michel, to Electricite de France (Service National). Method and apparatus for measuring the water content of a snow pack. 3,665,180, 5-23-72, Cl. 250-43.5.
 Guilloud, Rudolph L., to Aluminum Company of America. Fluidized bed level control. 3,648,380, 3-14-72, Cl. 34-10.
 Guilmette, F. Peter; and Madison, Norman L., to Dow Chemical Company, The. Preparation of polyfunctional acrylates. 3,655,733, 4-11-72, Cl. 260-486.
 Guinan, Joseph C., to Norton Company. Foam tape applicator. 3,671,364, 6-20-72, Cl. 156-574,000.
 Guinard, Paul Andre, to Etablissements Pompes Guinard. Electric pump assembly for use in pumping explosive or dangerous liquids. 3,671,152, 6-20-72, Cl. 417-422,000.
 Guinard, Paul Andre. Immersible electric pump arrangements. 3,694,110, 9-26-72, Cl. 417-424,000.
 Guinness, Arthur, Son & Company, (Dublin) Limited: *See—*
 MacKay, Donald R. H., 3,667,176.
 Guinn, Frank; and Baba, George P. Signal flag. 3,640,242, 2-8-72, Cl. 116-173.
 Guinn, Franklin Keith: *See—*
 Gammill, Adrian Monroe; Guinn, Franklin Keith; Bird, Urban S.; and Housholder, William R., 3,667,423.
 Guinn, Kenneth F. Flyable toy rotor apparatus. 3,687,403, 8-29-72, Cl. 244-155,00r.
 Guinter, S. Robert: *See—*
 Provi, Mike A.; and Guinter, S. Robert, 3,666,031.
 Guinzy, Norman J.; Kerns, Clyde W.; Ruehle, William H.; and Teague, Henry E., to Mobil Oil Corporation. Automated process for determining subsurface velocities from seismograms. 3,696,331, 10-3-72, Cl. 340-15,5dp.
 Guisti, Medie B., to Carus Corporation. Processes for etching synthetic polymer resins with alkaline alkali metal manganate solutions. 3,652,351, 3-28-72, Cl. 156-2.
 Guitard, Louis: *See—*
 Goue, Bernard; Guitard, Louis; and Edon, Claude, 3,645,799.
 Guite, Joseph D., Sr., to Eastman Kodak Company. Photographic film-unit assemblage. 3,635,139, 1-18-72, Cl. 95-13.
 Gujer, Hans. Circulating device for loose materials, especially aerobic decomposing organic waste materials. 3,642,255, 2-15-72, Cl. 259-183.
 Gujer, Hans. Filter conveyor band for a continuously operating filter press. 3,687,295, 8-29-72, Cl. 210-324,000.
 Gukelberger, Thomas F., Jr.; and Kleinfelder, Walter J., to International Business Machines Corporation. Method of changing the physical properties of a metallic film by ion beam formation and devices produced thereby. 3,682,729, 8-8-72, Cl. 156-13,000.
 Gukelberger, Werner: *See—*
 Neuhauser, Hans; Benz, Helmut; and Gukelberger, Werner, 3,673,919.

- Gulba, Francis S. Portable seating apparatus. 3,700,278, 10-24-72, Cl. 297-191,000.
 Gulbenk, Alin H.: *See—*
 Johnson, Francis; and Gulbenk, Alin H., 3,657,340.
 Gulbenk, Aylin H.; Horne, Dorothy J.; and Johnston, Howard, to Dow Chemical Company, The. 2,3-Dichloro-5,10-dihydropyrazino(2,3-b)quinoxaline. 3,663,543, 5-16-72, Cl. 260-250.
 Gulbins, Klaus: *See—*
 Henkler, Herbert; Hartmann, Heinrich; Gulbins, Klaus; and Wilhelm, Hans, 3,654,021.
 Wilhelm, Hans; Hartmann, Heinrich; and Gulbins, Klaus, 3,632,789.
 Gulbis, Yan Karlovich: *See—*
 Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leenex, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreovich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.
 Gulbransen, Earl A.: *See—*
 Andrew, Kenneth F.; Tallman, Richard L.; and Gulbransen, Earl A., 3,672,814.
 Gulbransen, Earl A.; Tallman, Richard L.; Andrew, Kenneth F.; and Buzalski, Bruce T., to Westinghouse Electric Corporation. Photoflash lamp and multiple flashlamp system. 3,675,004, 7-4-72, Cl. 240-1.3.
 Guldenpfennig, Hans, to Berthold, H., Messinglinienfabrik und Schriftsetzerei AG. Photosetting method and machine. 3,695,155, 10-3-72, Cl. 95-4,500.
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 Gulf & Western Industrial Products Company: *See—*
 Boehm, Dennis R.; and Hampel, Kenneth R., 3,656,939.
 Burgess, Lester E.; Niemkiewicz, Ignatius J.; Cruger, Robert W.; and Charno, Ronald J., 3,666,310.
 Cruger, Robert W.; and Silver, Floyd G., 3,695,559.
 Dalman, Donald P., 3,693,567.
 Freeland, Edward J., 3,700,991.
 Helrigel, Robert A.; and Ward, Roderick K., 3,665,847.
 Helrigel, Robert A.; and Ward, Roderick K., 3,687,069.
 Keithley, Harry E.; and Helrigel, Robert A., 3,699,882.
 Lind, Arthur L.; and Gross, John, 3,645,120.
 Lomax, Donald L., 3,646,989.
 McWade, John E., 3,638,162.
 Gulf & Western Industrial Products Company, mesne: *See—*
 Burgess, Lester Earl, 3,634,334.
 Gross, Clarence R., 3,635,390.
 Niemkiewicz, Ignatius John; Reinemuth, George H.; and Silver, Floyd G., 3,702,177.
 Gulf & Western Industries, Inc.: *See—*
 Eikenberry, Willis M., 3,706,070.
 Fredell, Gary D., 3,659,166.
 Hedman, Theodore A., 3,691,412.
 Hulterstrum, Harold D., 3,678,225.
 Macyszko, John; and China, Endy, 3,663,771.
 Missimer, Dale J., 3,698,202.
 Rieman, Willis E., 3,689,739.
 Seipp, William H., 3,671,817.
 Gulf & Western Industries, Inc., mesne: *See—*
 Bartlett, Peter G.; Clark, Larry K.; and Hill, Frank W., 3,654,494.
 Clark, Larry K., 3,648,233.
 Henry, Donald E., 3,632,251.
 Hill, Frank W.; Bartlett, Peter G.; and Clark, Larry K., 3,662,329.
 Gulf & Western Metals Forming Company: *See—*
 Lindahl, Herbert S., 3,638,444.
 Tischler, Henry J., 3,639,002.
 Gulf & Western Precision Engineering Company: *See—*
 Flanagan, Richard J., 3,640,026.
 Gulf & Western Systems Company: *See—*
 Amidon, Charles H., Jr., 3,635,054.
 Hayes, Frederick Vincent, 3,651,330.
 Gulf & Western Systems Company, mesne: *See—*
 McGrath, William W.; McLeod, Robert B.; and Reichle, Philip L., 3,653,041.
 Weld, Foster E.; Lassell, Robert W.; and McLeod, Robert B., 3,673,329.
 Gulf Degremont, Inc.: *See—*
 Holca, Radu, 3,680,701.
 Gulf Development, Inc.: *See—*
 Heavener, Edward A., 3,655,320.
 Gulf General Atomic Incorporated: *See—*
 Bokros, Jack C.; and Ellis, Willard H., 3,685,059.
 Magers, Leroy; Riddle, John H.; and Eitzen, August D., 3,687,380.
 Gulf Oil Canada Limited: *See—*
 Germain, Leo M., 3,701,710.
 Pogorski, Louis A., 3,695,483.
 Scott, William Bruce; and Simpson, Peter Laurence, 3,705,909.
 Gulf Oil Corporation: *See—*
 Adams, Archibald H., 3,707,412.
 Armistead, John M.; and Kosiba, Joseph K., 3,702,238.
 Bokros, Jack C., 3,676,179.
 Bokros, Jack C.; and Ellis, Willard H., 3,677,795.
 Bokros, Jack C.; and Ellis, Willard H., 3,707,006.
 Brower, David F., 3,654,787.
 Compton, Dinsdale M. J.; and Epstein, Barry D., 3,679,898.
 Edgemond, John W., Jr., 3,642,311.
 French, Lawrence R.; and Skinner, Wilson M., 3,691,248.
 Grady, James C., 3,683,699.
 Henning, John L., Jr.; and Robicheaux, Warren J., 3,702,134.
 Howland, John W.; and Rosso, Juan C. (said Howland assor. to), 3,642,624.
 Jansen, Hansjorg; Wildi, Paul; and Kline, James A., 3,643,480.
 Klima, Frank J.; and Duncan, James D., 3,676,236.
 Koutz, Stanley L., 3,677,008.
 Leadford, John L., 3,665,518.
 Merriam, Marshall F., 3,675,042.
 Mourning, Marion P., 3,650,946.
 Neighbors, Ralph P., 3,702,863.
 Selleck, Edward G.; Weinberg, Alfred F.; and Tully, Geoffrey R., Jr., 3,653,995.
 Stone, Virgil D., 3,666,009.
 Gulf Oil Corporation, mesne: *See—*
 Fortescue, Peter; and Shanstrom, Raymond T., 3,703,437.
 Neighbors, Ralph P., 3,660,475.
 Gulf Refining Company: *See—*
 Allen, Paul V.; and McAllister, Edward W., 3,681,997.
 Gulf Research & Development Company: *See—*
 Ahle, James L., 3,690,865.
 Ahn, Yong Kee; Cupples, Barrett L.; and Murphy, Clarence R., 3,686,285.
 Ahn, Yong Kee; Cupples, Barrett L.; and Murphy, Clarence R., 3,686,286.
 Anderson, Raymond P.; and Galiano, Francis R., 3,644,571.
 Ansporn, Harry D.; Clampitt, Bert H.; and Gilbert, Ronald E., 3,674,761.
 Ansporn, Harry D.; Clampitt, Bert H.; and Gilbert, Ronald E., 3,681,313.
 Bacha, John D.; and Selwitz, Charles M., 3,641,168.
 Bacha, John D.; and Selwitz, Charles M., 3,655,783.
 Bacha, John D.; and Selwitz, Charles M., 3,686,314.
 Barie, Walter P., Jr.; and Franke, Norman W., 3,637,579.
 Barie, Walter P., Jr.; and Franke, Norman W., 3,637,904.
 Barie, Walter P., Jr., 3,655,499.
 Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., 3,682,853.
 Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., 3,684,748.
 Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., 3,684,754.
 Beach, Horace J.; En Dean, Howard J.; Frawley, Frank E.; and Yates, Dick, 3,669,700.
 Belwitz, Charles M., 3,689,577.
 Beuther, Harold; Ondrey, John A.; and Swift, Harold E., 3,644,550.
 Boyle, John P.; Murphy, Clarence R.; and Walsh, William L., 3,699,179.
 Bozik, John E.; and Swift, Harold E., 3,636,157.
 Bryson, Millard C.; McKinney, Joel D.; and Murphy, James R., 3,706,654.
 Bull, Willard C.; and Schmid, Bruce K., 3,640,816.
 Cahoy, Roger P., 3,644,524.
 Cahoy, Roger P.; and Sanjean, John, 3,694,483.
 Cahoy, Roger P., 3,707,366.
 Cant, Noel W.; and Hall, William K., 3,632,833.
 Cant, Noel W.; and Hall, William K., 3,641,139.
 Cant, Noel W.; and Hall, William K., 3,644,510.
 Cant, Noel W.; and Hall, William K., 3,644,511.
 Carlson, Edgar; and Lehrian, William R., 3,666,659.
 Carlson, Edgar; and Lehrian, William R., 3,676,333.
 Carr, Norman L.; Paraskos, John A.; and Ko, Daniel Y., 3,639,228.
 Carr, Norman L.; and Peterson, Rodney E., 3,646,106.
 Carr, Norman L., 3,654,131.
 Carr, Norman L.; and Stahlfeld, Donald L., 3,663,805.
 Carr, Norman L.; Hamilton, Harry A.; and Schagrin, Edward F., 3,684,687.

- Ceschini, Eugene S., 3,696,396.
 Christman, Robert D.; and McKinney, Joel D., 3,654,132.
 Cupples, Barrett L.; and Murphy, Clarence R., 3,640,852.
 Cupples, Barrett L.; Murphy, Clarence R.; and Walsh, William L., 3,686,076.
 Dahle, Norman A., 3,677,737.
 Dahle, Norman A., 3,690,858.
 Deffner, John F., 3,686,224.
 Deffner, John F., 3,706,836.
 Doher, Edward J.; and Koch, Robert W., 3,654,137.
 Doyle, William C., Jr.; and Ahle, James L., 3,650,728.
 Doyle, William C., Jr., 3,676,479.
 Doyle, William Carter, Jr., 3,634,457.
 Doyle, William Carter, Jr., 3,682,617.
 Elliott, George E., Jr.; Salomon, Jean; and Vogel, Roger F., 3,639,272.
 Ellis, Alan F.; and Sabourin, Edward T., 3,646,143.
 Ellis, Alan F., 3,676,473.
 Ellis, Alan F.; Kresge, Alfred N.; and Seekircher, Richard, 3,676,489.
 Ellis, Alan F.; and Seekircher, Richard, 3,691,233.
 Fareri, Elizabeth L.; Mc Guire, Robert J.; and Strange, Harold O., 3,652,644.
 Fernald, Herbert B.; Gall, William; and Hay, Russell G., 3,641,191.
 Fernald, Herbert B.; Gall, William; Gwynn, Bernard H.; and Ward, John V., 3,655,809.
 Fernald, Herbert B.; Gall, William; Hay, Russell G.; and Kresge, Alfred N., 3,702,345.
 Franke, Norman W.; and Singerman, Gary M., 3,684,753.
 Franke, Norman W.; Paviak, Stanley C.; and Porter, Warren K., Jr., 3,706,676.
 Galiano, Francis R.; and Rankin, David, 3,637,426.
 Galiano, Francis R.; and Smith, Wayne E., 3,679,561.
 Gaylord, Eber W.; and Goodwin, Robert J., 3,688,852.
 Giannetti, Joseph P.; and Plundo, Robert A., 3,637,503.
 Goins, William C., Jr.; and McGlothlin, Bruce B., 3,675,717.
 Goins, William C., Jr.; and McGlothlin, Bruce B., 3,707,192.
 Harper, Earl F.; Murphy, Clarence R.; and Walsh, William L., 3,644,554.
 Hartle, Robert J.; and Mc Grath, Joseph J., 3,702,299.
 Harwell, Kenneth E.; and Galiano, Francis R., 3,634,548.
 Havens, Richard H., 3,661,771.
 Hay, Russell G.; McNulty, John G.; and Walsh, William L., 3,634,474.
 Hay, Russell G.; McNulty, John G.; and Walsh, William L., 3,641,086.
 Hay, Russell G.; McNulty, John G.; and Walsh, William L., 3,644,546.
 Hay, Russell G.; McNulty, John G.; and Walsh, William L., 3,651,131.
 Hay, Russell G.; Murphy, Clarence R.; and Walsh, William L., 3,683,037.
 Hay, Russell G.; McNulty, John G.; and Walsh, William L., 3,686,274.
 Hay, Russell G.; McNulty, John G.; and Walsh, William L., 3,686,275.
 Hay, Russell G.; McNulty, John G.; and Walsh, William L., 3,692,822.
 Hazen, Stanley M.; and Heilman, William J., 3,647,923.
 Hedrich, Loren W., 3,685,981.
 Heilman, William J., 3,632,673.
 Heilman, William J., 3,641,201.
 Heilman, William J., 3,642,726.
 Heilman, William J., 3,661,938.
 Heilman, William J., 3,706,703.
 Heilman, William J., 3,706,704.
 Hill, Robert W., 3,661,830.
 Hoffman, Otto L., 3,702,759.
 Holiday, Allan D., 3,663,674.
 Innes, Robert A.; and Rennard, Raymond J., Jr., 3,644,549.
 Joyce, Thomas P., Jr.; Lagally, Ralph W.; and Schulz, Johann G., 3,671,579.
 Kehl, William L.; Lutinski, Frank E.; and Swift, Harold E., 3,639,647.
 Kobylinski, Tadeusz P.; and Swift, Harold E., 3,644,559.
 Koch, Robert W., 3,691,061.
 Koch, Robert W., 3,696,023.
 Lese, Henri K.; and Smyth, Rex W., 3,657,280.
 Lunifeld, David, 3,631,710.
 Mator, Richard T., 3,665,748.
 Matthews, Joseph S., 3,682,791.
 Matthews, Joseph S., 3,682,794.
 Matthews, Joseph S., 3,684,669.
 McGuire, Robert J.; Mitchell, Edward; and Pellegrini, John P., Jr., 3,696,051.
 McKinney, Joel D.; and Ondish, George F., 3,692,667.
 Mori, Ernest A., 3,687,205.
 Murphy, Clarence R.; Onopchenko, Anatoli; Piatt, John M.; and Seekircher, Richard, 3,644,499.
 Neighbors, Ralph P.; and Phillips, Lee V., 3,644,523.
 Neighbors, Ralph P., 3,701,646.
 Notaro, Vincent A.; and Selwitz, Charles M., 3,636,170.
 Notaro, Vincent A.; and Selwitz, Charles M., 3,644,543.
 Notaro, Vincent A.; Selwitz, Charles M.; and Walsh, William L., 3,644,552.
 Ondrey, John A.; and Swift, Harold E., 3,641,138.
 Ondrey, John A.; and Swift, Harold E., 3,644,551.
 Ondrey, John A.; and Swift, Harold E., 3,655,749.
 Ondrey, John A.; and Swift, Harold E., 3,655,750.
 Ondrey, John A.; and Swift, Harold E., 3,660,479.
 Onopchenko, Anatoli; Schulz, Johann G. D.; and Seekircher, Richard, 3,641,135.
 Onopchenko, Anatoli; Schulz, Johann G. D.; and Seekircher, Richard, 3,641,136.
 Onopchenko, Anatoli; Schulz, Johann G. D.; and Seekircher, Richard, 3,644,512.
 Onopchenko, Anatoli; Schulz, Johann G. D.; and Williamson, Roger C., 3,676,488.
 Onopchenko, Anatoli; and Schulz, Johann G. D., 3,692,828.
 Paraskos, John A.; and Somers, Allen E., 3,706,657.
 Patel, Natu R., 3,706,547.
 Paviak, Stanley C., 3,676,373.
 Pellegrini, John P., Jr.; and Spolners, Ilgvars J., 3,632,769.
 Porter, Warren K., Jr., 3,671,457.
 Rocchini, Albert G.; and Trautman, Charles E., 3,640,868.
 Rosenthal, Robert W., 3,676,514.
 Schulz, Johann G. D.; and Seekircher, Richard, 3,641,132.
 Selwitz, Charles M., 3,649,655.
 Smith, Wayne E.; Batchelor, Robert L.; and Fulk, Kenneth J., 3,694,423.
 Spilners, Ilgvars J., 3,689,484.
 Swift, Harold E., 3,641,121.
 Swift, Harold E., 3,691,102.
 Thayer, Helen I., 3,644,393.
 Tucci, Edmond R.; Thayer, Helen I.; and Ward, John V., 3,644,529.
 White, Bradford C., 3,694,351.
 White, Frederick K., 3,647,714.
 Williamson, Roger C., 3,644,506.
 Wuenschel, Paul C., 3,693,717.
 Wyllie, Malcolm R. J., 3,665,721.
 Gulf States Paper Corporation: See—
 Gulliver, Richard F., 3,637,131.
 Wolfe, George H., 3,684,159.
 Gullins, Klaus; Wilhelm, Hans; Hartmann, Heinrich; and Eckell, Albrecht, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Copolymers of butadiene and/or copolymerizable carboxylic nitriles and other monomers which resist yellowing. 3,637,596, 1-25-72, Cl. 260-47.
 Gulibon, Robert S.; and Heaton, James W., to Kennametal Inc. Adjustable boring bar. 3,704,958, 12-5-72, Cl. 408-153.000.
 Gulick, Ronald A.: See—
 Prikrly, Walter F.; and Gulick, Ronald A., 3,677,108.
 Sheesley, John M.; and Gulick, Ronald A., 3,704,986.
 Wicke, Charles H.; and Gulick, Ronald A., 3,684,844.
 Gulick, Ronald A.; and Wicke, Charles H., to Research Engineering Company. Actuator. 3,640,140, 2-8-72, Cl. 74-89.15.
 Gulick, Ronald A.; and McEver, Robert M., Jr., to Research Engineering Company. Unidirectional dampener. 3,685,621, 8-22-72, Cl. 192-12.00b.
 Gulistan, Bulent, to Deutsch Fastener Corporation. Method of producing a captive jacking screw. 3,639,971, 2-8-72, Cl. 29-437.
 Gulistan, Bulent, to Deutsch Fastener Corporation. Flaring tool. 3,665,581, 5-30-72, Cl. 29-243.520.
 Gulistan, Bulent, to Deutsch Fastener Corporation. Floating nut assembly. 3,695,324, 10-3-72, Cl. 151-41.740.
 Gull, Frank Arthur. Optical scanning equipment. 3,637,281, 1-25-72, Cl. 350-7.
 Gull, Karl-Heinz; and Marke, Bernt-Dieter, to Hoesch Aktiengesellschaft. Arrangements for sensing and correcting the level of a body. 3,687,483, 8-29-72, Cl. 280-124.00f.
 Gulla, Michael: See—
 Shipley, Charles R., Jr.; and Gulla, Michael, 3,650,957.
 Shipley, Charles Raymond; Gulla, Michael; and Dutkewych, Oleh Borys, 3,677,776.
 Gulla, Michael; and Dutkewych, Oleh B., to Shipley Company, Inc. Stabilized electroless plating solutions. 3,649,308, 3-14-72, Cl. 106-1.
 Gulla, Michael, to Shipley Company, Inc. Electroless copper plating. 3,661,597, 5-9-72, Cl. 106-1.000.
 Gulla, Michael; and Dutkewych, Oleh B., to Shipley Company, Inc. Stabilized electroless plating solutions. 3,663,242, 5-16-72, Cl. 106-1.000.
 Gulla, Michael, to Shipley Company, Inc. Preparing aluminum alloys for finishing. 3,663,441, 5-16-72, Cl. 252-79.400.
 Gullasch, Jurgen: See—
 Politycki, Alfred; Jecht, Ulrich; and Gullasch, Jurgen, 3,659,098.
 Guldenpfennig, Klaus; Pommerening, Uwe A.; and Russell, Stanley L., to Stromberg-Carlson Corporation. Queue for electronic telephone exchange. 3,702,380, 11-7-72, Cl. 179-27.000.

- Gullett, William W., to Diamond Shamrock Corporation. Ferro alloy containing aluminum and manganese. 3,684,494, 8-15-72, Cl. 75-134.00m.
 Gullfeldt, Bengt Hjalmar: See—
 Akerstrom, Stig Hjalmar Johannes; Tempel, Albert; and Gullfeldt, Bengt Hjalmar, 3,646,210.
 Gullick Dobson Limited: See—
 Cooke, John, 3,661,056.
 Small, Fred, 3,677,603.
 Gullick Dobson Limited, Inc.: See—
 Cooper, Kenneth, 3,664,138.
 Whitaker, Michael E., 3,646,768.
 Gullick Limited: See—
 Pollard, Thomas, 3,646,769.
 Gulliksson, Karl Ivar Ake, to Sovereign Finanz A.G. Choke. 3,650,477, 3-21-72, Cl. 239-490.
 Gullion, Billy B., to United States of America, Navy, mesne. Current monitor for threshold detection. 3,653,020, 3-28-72, Cl. 340-253.
 Gulliver, Barron J., to Joerns Furniture Company. Hospital bed. 3,688,319, 9-5-72, Cl. 5-66.000.
 Gulliver, Richard F., to Gulf States Paper Corporation. Carton with locking means for reclosable cover. 3,637,131, 1-25-72, Cl. 229-36.
 Gullo, James M.: See—
 Adams, Bobby F.; Pyne, William J.; and Gullo, James M., 3,639,608.
 Gullotti, Damian V.: See—
 Sperry, Philip R.; and Gullotti, Damian V., 3,642,542.
 Gullspangs Elektrokemiska AB: See—
 Aue, Alexander Iskander; Bjorling, Gotthard E.; and Johansson, Sven Agden, 3,649,487.
 Gulsby, Jerry G.: See—
 Randall, Bill R.; and Gulsby, Jerry G., 3,702,541.
 Gulton Industries, Inc.: See—
 Alton, Ahdor H.; and Kohn, Mitchell I., 3,648,183.
 Bonini, Joseph N., 3,688,361.
 Cox, Jay A., 3,691,450.
 Green, James, 3,644,927.
 Herman, Bernard B.; and Farley, Vincent P., Jr., 3,671,320.
 Herman, Bernard B.; and Farley, Vincent P., 3,671,321.
 Howatt, Glenn N., 3,635,759.
 Kinney, Freas C., 3,634,916.
 Leonard, Murray, 3,686,437.
 Murry, Edward J.; and Mitchell, Charles, 3,681,627.
 Seiger, Harvey N.; and Dagnall, Robert J., 3,642,600.
 Gum, Wilson F., Jr.; and Goralski, Christian T., to Dow Chemical Company, The. 2-(Dihalonitromethyl) quinoxalines. 3,703,515, 11-21-72, Cl. 260-250.00r.
 Gumacos, Constantine, to Philco-Ford Corporation. Digital multiple tone generator. 3,649,821, 3-14-72, Cl. 235-152.
 Gumbiner, John R.: See—
 Holzapfel, George L., 3,633,553.
 Gumenjuk, Boris Andreevich; Peregud, Boris Petrovich; Cherstov, Leonid; Granberg, Georgy Ljubimovich; and Ivanova, Galina Davydovna. Magnetic beta-ray spectrometer and magnetic lenses for use therein. 3,659,095, 4-25-72, Cl. 250-41.9.
 Gumerman, Carl, to Du Pont de Nemours, E. I., and Company. Coating composition of fluorocarbon polymeric material and insulated electrical conductors coated therewith. 3,684,755, 8-15-72, Cl. 260-17.00r.
 Gumhold, Gunther, to Index-Werke KG Hahn & Tessenky. Apparatus for feeding bars or the like in machine tools. 3,693,810, 9-26-72, Cl. 214-1.500.
 Guminski, Alfons: See—
 Wahl, Hans Heinz; Guminski, Alfons; and Lohmann, Gunther, 3,651,859.
 Gummel, Hermann Karl, to Bell Telephone Laboratories, Incorporated. Apparatus and machine-implemented process for determining the terminal characteristics of a bipolar transistor. 3,683,417, 8-8-72, Cl. 444-1.000.
 Gump, J. R.; Kim, Tai K.; and Long, Robert E., Jr., to GTE Sylvania Incorporated. Yttrium purification. 3,702,233, 11-7-72, Cl. 23-23.000.
 Gump, Klaus H.; and Stuetz, Dagobert E., to Celanese Corporation. Process for formation of a cyclized acrylic vibrous material. 3,647,770, 3-7-72, Cl. 260-85.5.
 Gump, Klaus H., to Celanese Corporation. Polymerization of aromatic nitriles in 2-pyrrolidinone as solvent and catalyst at elevated temperatures. 3,678,049, 7-18-72, Cl. 260-248.0cs.
 Gumprecht, William Henry: See—
 Blackwell, John; Gumprecht, William Henry; and Starn, Roy Emerson, Jr., 3,656,991.
 Blackwell, John; Gumprecht, William Henry; and Starn, Roy Emerson, Jr., 3,706,525.
 Gund, Peter Herman: See—
 Berkelhammer, Gerald; and Gund, Peter Herman, 3,660,401.
 Gunderloy, Frank C., Jr.: See—
 Grant, Louis R., Jr.; and Gunderloy, Frank C., Jr., 3,653,953.
 Gunderloy, Frank C., Jr.; Hamermesh, Charles L.; and Wagner, Ross I., to North American Rockwell Corporation. Pyrotechnic com-
 position for colored smoke production. 3,690,971, 9-12-72, Cl. 149-19.000.
 Gundersen, Allan A.; and Ramsey, Fred T., to Wyomissing Corporation. Educational device. 3,638,335, 2-1-72, Cl. 35-36.
 Gundersen, James L.: See—
 Perkins, Carroll R.; Shaffstall, Everett L.; Yoder, Robert N.; and Gundersen, James L., 3,659,286.
 Shaffstall, Everett L.; Perkins, Carroll R.; and Gundersen, James L., 3,646,587.
 Gundersen, James L., to Hughes Aircraft Company. A-D/D-A converter system. 3,656,152, 4-11-72, Cl. 340-347.
 Gundersen, Ralph W., to Power Drive Corporation. Work positioner. 3,678,583, 7-25-72, Cl. 33-125.000.
 Gundlach, Richard P., to Gamco Industries, Inc., mesne. Film training projector. 3,671,736, 6-20-72, Cl. 240-47.000.
 Gundlach, Robert W.: See—
 Kamola, Roman C.; Vince, Michael A.; Gundlach, Robert W.; and Gunther, Kenneth W., 3,704,524.
 Gundlach, Robert W., to Xerox Corporation. Photoelectrophoretic imaging system. 3,639,224, 2-1-72, Cl. 204-181.
 Gundlach, Robert W.; Lot, Leon C.; and Snelling, Christopher, to Xerox Corporation. Photoelectrophoretic imaging method and apparatus. 3,642,598, 2-15-72, Cl. 204-181.
 Gundlach, Robert W., to Xerox Corporation. Imaging system. 3,648,607, 3-14-72, Cl. 101-450.
 Gundlach, Robert W.; and Wells, John B., to Xerox Corporation. Manifold imaging process wherein the imaged elements may be recombined and reused. 3,653,892, 4-4-72, Cl. 96-1.3.
 Gundlach, Robert W., to Xerox Corporation. Printing by vapor propulsion. 3,655,379, 4-11-72, Cl. 96-27.
 Gundlach, Robert W., to Xerox Corporation. Kinescope photoelectrophoretic imaging method and systems. 3,663,396, 5-16-72, Cl. 204-181.
 Gundlach, Robert W., to Xerox Corporation. Imaging system. 3,676,215, 7-11-72, Cl. 117-230.000.
 Gundlach, Robert W., to Xerox Corporation. Porous printing plate prepared from particulate photosensitive resinous material. 3,678,850, 7-25-72, Cl. 101-170.000.
 Gundlach, Robert W., to Xerox Corporation. Photoelectrophoretic facsimile transmission system. 3,682,628, 8-8-72, Cl. 96-1.200.
 Gundlach, Robert W.; and Rhodes, Warren L., to Xerox Corporation. Background removal. 3,682,677, 8-8-72, Cl. 117-17.500.
 Gundlach, Robert W.; and Vock, Richard C., to Xerox Corporation. Induction imaging system. 3,703,376, 11-21-72, Cl. 96-1.00r.
 Gundlach, William J., to Geo Space Corporation. Flexible seismic gas exploder. 3,670,840, 6-20-72, Cl. 181-5nc.
 Gunji, Naoki: See—
 Yamagishi, Hidehisa; Gunji, Naoki; and Takeuchi, Masao, 3,647,650.
 Gunjigake, Koreaki: See—
 Kasagi, Masanori; and Gunjigake, Koreaki, 3,692,723.
 Gunkel, Otto: See—
 Gunkel, Otto, 3,705,546.
 Gunkel, Otto, to Gunkel, Otto. Fruit press. 3,705,546, 12-12-72, Cl. 100-118.000.
 Gunlock, Donald E.: See—
 Arida, Louis K.; Gionet, Edmond R.; and Gunlock, Donald E., 3,656,807.
 Gunn, David L.; and Hanus, George M., to Motorola, Inc. Frequency conversion module including emitter follower mixer. 3,641,441, 2-8-72, Cl. 325-430.
 Gunn, David P.: See—
 Gerstenberger, Roland W.; and Gunn, David P., 3,706,450.
 Gunn, Herbert H. Method of constructing a ship's hull. 3,680,514, 8-1-72, Cl. 114-65.00r.
 Gunn, John B.: See—
 Beesley, James P.; and Gunn, John B., 3,679,959.
 Gunn, Kenneth M.: See—
 Van Stavern, Merle H.; Moore, Henry D.; Miller, Gordon H.; and Gunn, Kenneth M., 3,685,653.
 Gunnarsson, Karl Einar, to Nyby Bruks Aktiebolag. Method of treating industrial waste water without contamination of the environment. 3,647,686, 3-7-72, Cl. 210-48.
 Gunnebo Bruks Aktiebolag: See—
 Boye, Erhard; and Landin, Eric, 3,638,892.
 Gunnell, Thomas J.; and Stegelman, Albert F., to Phillips Petroleum Company. Method for the production of high temperature gases. 3,636,300, 1-18-72, Cl. 219-121.
 Gunnerson, Dale B. Method of making continuous fiber glass filament open weave frames and structures. 3,649,401, 3-14-72, Cl. 156-175.
 Gunning, Harry E.; and Jameson, Bruce G., to Esso Research and Engineering Company. Desulfation of reforming catalysts. 3,692,693, 9-19-72, Cl. 252-415.000.
 Gunning, Paul E., to Osmose Wood Preserving Co. of America, Inc. Dip tube for aerosol dispenser. 3,645,424, 2-29-72, Cl. 222-402.1.
 Gunning, Paul E., to Osmose Wood Preserving Co. of America, Inc. Deicer compositions. 3,705,854, 12-12-72, Cl. 252-70.000.
 Gunning, Stephen Raymond: See—

- Hartley, Philip Saxton; and Gunning, Stephen Raymond, 3,634,582.
- Gunning, William F.; Wilson, John F.; and Bertram, Charles C., to Astrodata, Inc. Communications exchange. 3,654,603, 4-4-72, Cl. 340-146.1.
- Guns, Karel: *See—*
Dierckx, Ludovicus Maria; Feron, Denis Lucian; and Guns, Karel, 3,682,623.
- Gunsalus, Claude A.: *See—*
Brawner, William H.; Gunsalus, Claude A.; and Rockwell, Lowell K., 3,698,337.
- Gunsher, Jeffrey A.: *See—*
Exner, Jurgen H.; Larsen, Eric R.; and Gunsher, Jeffrey A., 3,688,001.
- Gunson's Sortex Limited: *See—*
Chapman, Thomas Henry, 3,695,517.
- Gunsser, Otto: *See—*
Durr, Alfred W.; Gunsser, Otto; and Heller, Hubert H., 3,688,362.
- Gunsser, Peter; and Christ, Klaus H., to Bosch, Robert, G.m.b.H. Wheel slip detection device. 3,659,263, 4-25-72, Cl. 340-52.
- Gunsser, Peter; Zechhall, Richard; and Christ, Klaus, to Bosch, Robert, G.m.b.H. Arrangement for detecting slippage of wheels of vehicles. 3,659,907, 5-2-72, Cl. 303-21.0cf.
- Gunter & Cooke, Inc.: *See—*
Gunter, Josef K.; Gunter, C. Walton; Pattillo, Roy E.; and Howe, James W., Jr., 3,681,815.
- Gunter, Alec C. Apparatus for preparing a cocoa concentrate. 3,671,273, 6-20-72, Cl. 99-236.0cc.
- Gunter, C. Walton: *See—*
Gunter, Josef K.; Gunter, C. Walton; Pattillo, Roy E.; and Howe, James W., Jr., 3,681,815.
- Gunter, Claude Ray: *See—*
Freake, Ronald; Gunter, Claude Ray; Haden, Billy Harper; and Mhatre, Nagesh Shamrao, 3,704,206.
- Gunter, James C., to Robertshaw Controls Company. Coiled spring separator device and method. 3,679,097, 7-25-72, Cl. 221-163.000.
- Gunter, Josef K.; Gunter, C. Walton; Pattillo, Roy E.; and Howe, James W., Jr., to Gunter & Cooke, Inc. Textile silver coiler. 3,681,815, 8-8-72, Cl. 19-159.00r.
- Guntermann, Hans, to Elektro-Thermit G.m.b.H. Sleeve joint for connecting steel inserts in steel-concrete construction. 3,638,978, 2-1-72, Cl. 287-108.
- Gunther, Adolph Peter; Hebel, Kenneth Gerard; and Kuck, Mark Allen, to Stauffer Chemical Company. Multiport sampling valve. 3,683,701, 8-15-72, Cl. 73-422.0gc.
- Gunther, Conrad J., to Dzus Fastener Co., Inc. Fastener having improved-load carrying capacity. 3,688,352, 9-5-72, Cl. 24-221.00a.
- Gunther, Donald E.: *See—*
Westeren, Herbert W.; Gronquist, Ernest C., Jr.; Ott, Marvin J., Jr.; and Gunther, Donald E., 3,656,720.
- Gunther, Gregory M.: *See—*
Garcia, Armando J.; Gunther, Gregory M.; and Villanueva, Juanito O., 3,690,030.
- Gunther, Gregory M.; Fekete, Ferenc; Liedtke, Ronald R.; and Stephens, Donald H., to Mattel, Inc. Action stage for dancing doll. 3,643,374, 2-22-72, Cl. 46-139.
- Gunther, Gregory M.; Lewis, J. Stephen; Nishiguchi, Masakatsu; Robson, George E.; Wagner, Raymond P.; and Yarbrough, William R., to Mattel, Inc. Retractable hair figure toy. 3,696,552, 10-10-72, Cl. 46-135.000.
- Gunther, Hans; Konigl, Georg; and Kortner, Hans, to Agfa-Gevaert Aktiengesellschaft. Brightness indicating comparison device. 3,644,048, 2-22-72, Cl. 356-229.
- Gunther, John E.: *See—*
Goede, Walter F.; Gunther, John E.; and Noda, Takeshi, 3,646,382.
- Gunther, Kenneth W.: *See—*
Kamola, Roman C.; Vince, Michael A.; Gundlach, Robert W.; and Gunther, Kenneth W., 3,704,524.
- Gunther, Peter: *See—*
Oberkirch, Wolfgang; Gunther, Peter; and Pampus, Gottfried, 3,655,584.
- Oberkirch, Wolfgang; Gunther, Peter; and Pampus, Gottfried, 3,687,921.
- Gunther, Peter; and Oberkirch, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polymeric olefine oxides having high molecular weights. 3,634,340, 1-11-72, Cl. 260-2.
- Gunther, Phillip B.: *See—*
Weiss, Robert O.; Nikitopoulos, Robert A.; and Gunther, Phillip B., 3,698,959.
- Gunther, Roland, to Fritzsche Dodge & Olcott Inc. Flavoring compositions produced by reacting hydrogen sulfide with a pentose. 3,642,497, 2-15-72, Cl. 99-140.
- Gunther Wagner Pelikan-Werke: *See—*
Harbort, Ludwig, 3,639,257.
- Gunther, Wolfgang H. H., to Xerox Corporation. Selenium containing polymers. 3,671,467, 6-20-72, Cl. 260-2.00m.
- Gunvalson, Robert N. Boat mooring device. 3,703,875, 11-28-72, Cl. 114-230.000.
- Gunzburg, Fred, to Art-Lloyd Metal Products Corporation. Pilfer-proof desk and work table drawer. 3,649,095, 3-14-72, Cl. 312-333.
- Gunze Kobunshi Kogyo Kabushiki Kaisha: *See—*
Sakurai, Masao; and Muto, Kikuo, 3,647,340.
- Gunzel, Gerhard, to Licentia Patent-Verwaltungs-G.m.b.H. Amplifier circuit. 3,706,047, 12-12-72, Cl. 330-24.000.
- Gunzler, Thomas. Single-copy vending machines for newspapers. 3,705,665, 12-12-72, Cl. 221-188.000.
- Gupta, Dinesh C.: *See—*
Chan, Joseph Y.; and Gupta, Dinesh C., 3,644,829.
- Chan, Joseph Y.; and Gupta, Dinesh C., 3,646,436.
- Gupta, Dinesh C., to GTE Sylvania Incorporated. Apparatus and method for measuring the carrier concentration of semiconductor materials. 3,645,631, 2-29-72, Cl. 356-136.
- Gupta, Radha Raman, to Bendix Corporation, The. Range-detecting doppler radar. 3,659,293, 4-25-72, Cl. 343-14.
- Guptill, Frank E., Jr.: *See—*
Hess, Howard V.; and Guptill, Frank E., Jr., 3,685,581.
- Wilson, Raymond F.; Peck, Reese A.; and Guptill, Frank E., Jr., 3,658,681.
- Wilson, Raymond F.; Peck, Reese A.; and Guptill, Frank E., Jr., 3,671,420.
- Gupton, James A., Jr., to Corning Glass Works. Method of producing luminescent screens by the electrophoretic process. 3,681,222, 8-1-72, Cl. 205-181.000.
- Gupton, James A., Jr., to Corning Glass Works. Electrophoretic deposition of color phosphors. 3,681,223, 8-1-72, Cl. 204-181.000.
- Gureckis, Peter V.: *See—*
Thrasher, John Peter, 3,673,497.
- Gureghian, Krikor D.: *See—*
Connor, John M.; and Gureghian, Krikor D., 3,653,828.
- Gurev, Harold S.: *See—*
Black, James R.; and Gurev, Harold S., 3,680,028.
- Gurevich, Albert Efimovich; Rozenbljum, Boris Fischelevich; and Shaposhnikov, Igor Nikolaevich. Device for matching number of operating bridges on converting substations of direct-current transmission lines. 3,666,963, 5-30-72, Cl. 307-82.
- Gurevich, Grigory Zakharovich: *See—*
Grinchenko, Nikolai Nikolaevich; Abakanovich, Vadim Vyacheslavovich; Goldshtein, Yuri Moiseevich; Gurevich, Grigory Zakharovich; Chepelev, Viktor Gavrilovich; and Kuvshinov, Vladimir Zakharovich, 3,693,077.
- Gurgui, Constantin; Luca, Vasile; Eckardt, Andrei; and Ciulacu, Paraschiv, to Intreprinderea "Bucuresti" Pentru Extrazerea Prelucrarea Si Montarea Marmurei Si Pietrei de Constructii. Process for finishing the surface of a building. 3,705,830, 12-12-72, Cl. 156-71.000.
- Gurit AG: *See—*
Abend, Thomas, 3,652,521.
- Guritz, Kenneth E.; and Magill, John W., to Magill, John W. Airport runway system. 3,680,449, 8-1-72, Cl. 94-4.000.
- Gurka, Philip W. Fish hook with weed guard. 3,640,014, 2-8-72, Cl. 43-42.43.
- Gurkin, Martin; Sanderson, Gary Warner; and Graham, Harold Nathan, to Lipton, Thomas J., Inc. Process for making a spray-dried instant tea of desired bulk density. 3,666,484, 5-30-72, Cl. 99-77.000.
- Gurkin, Martin; Sanderson, Gary Warner; and Studer, Victor Vernon, to Lipton, Thomas J., Inc. Peroxide extraction of tea leaf. 3,669,680, 6-13-72, Cl. 99-77.000.
- Gurkov, Konstantin Stepanovich: *See—*
Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tkach, Khaim Berkovich; and Lipovetsky, Lazar Moiseevich, 3,674,099.
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Citrin, Paul Stuart; and Gurski, Frank Joseph, Jr., 3,687,731.
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Lung, Jacques, 3,693,652.
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Craig, William Allan; and Gurton, Owen Allen, 3,684,595.
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Schenk, Horst; and Guse, Rudolf, 3,656,334.
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Mozokhin, Nikolai G.; Maskenskov, Konstantin Mikhailovich; Kerimov, Niyazi Abdulkasim Ogly; Guseinova, Zuleikha Ismail Kyzy; Mekhtiev, Rafik Isrofil Ogly; and Evart, Garri Vol-demarovich, 3,682,146.
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Agalakov, Viktor Iosifovich; Guselnikov, Eduard Mitrofanovich; and Smaikin, Viktor Gavrilovich, 3,683,217.
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Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov, Nikolai Nikolaevich; Purmalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Yuri Petrovich; Deretsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and rits, Leonid Borisovich, 3,683,683.
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Purland, Donald A.; and Gustafson, Alan M., 3,646,751.
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Gustafson, August W.; and Gustafson, Edna L., 3,664,532.
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Neuhauser, Hans; Benz, Helmut; and Gukelberger, Werner, 3,673,919.
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Ospelt, Gustav; and Kunkel, Wolfgang, 3,672,337.
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Brayton, Robert K.; Gustavson, Fred G.; and Aachtel, Gary D., 3,705,409.
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Salisbury, John D.; Gustavson, Marvin R.; and Foster, John S., 3,636,323.
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Frame, Wayne W.; Gustavson, Roy A.; and Wiltse, James, 3,704,526.
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Andrusenko, Petr Ivanovich; Dolganov, Kint Evgenievich; Kovalev, Alexandr Ivanovich; Berezovsky, Pavel Iosipovich; Dmitrenko, Vladimir Ilich; Shukshin, Nikolai Pavlovich; Guterevich, Yuri Feodosievich; Kislov, Vladimir Grigorievich; Chevtsev, Andrei Vasilievich; Koshman, Eduard Ivanovich; and Filippov, Vladimir Vasilievich, 3,676,023.
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Bertolacini, Ralph J.; and Gutberlet, Louis C., 3,649,523.
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Frehe, Dieter, 3,665,541.
Schlosser, Gunther, 3,688,604.

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Guth, Edwin F., Jr., 3,683,173.
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Beck, Fritz; Guthke, Harald; and Leitner, Hans, 3,642,592.

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Kehr, Clifton Leroy; and Guthrie, James Leverette, 3,650,802.

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Loup, Jean-Pierre Olivier; Gutknecht, Jacques Emile; and Anthony, Anne-Marie, nee Barbier, 3,676,771.

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Jirka, Karl; Gutlhuber, Johann; and Straubing, Irlbach B., 3,705,950.

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Zeidler, Johannes, 3,703,789.

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Hermann, Allen M.; Gutmann, Felix; and Rembaum, Alan, 3,660,164.

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Gutmann, John T.: See—
Bernatt, Joseph; and Gutmann, John T., 3,647,996.

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Ringel, Samuel Morris; Roemer, Sidney; Gutt, Ann Lee; and Peterson, John E., 3,651,216.

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Audesse, Emery G.; Griffin, Robert M.; Tartakoff, Alexander; and Gutta, John J., 3,641,386.

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Friedman, Lester; Rattenbury, Kenneth H.; and Guttag, Alvin, 3,641,218.

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Taburinsky, Grigory Semenovich; Guterman, Eduard Mikhailovich; and Fain, Arnold Izrailevich, 3,682,231.

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Fangman, Charles N.; and Gutwiller, Walter R., 3,653,369.

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Cornay, Clement J.; Guy, Allen R.; and Young, Warren L., 3,652,728.

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Caiola, Amedee Jean-Claude; Guy, Henri Robert; and Sohm, Jean-Claude, 3,658,593.

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Mergens, Gerald R., 3,664,494.

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Guyette, Frank L.: See—
Hickey, Lionel R.; and Guyette, Frank L., 3,698,805.

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Grellier, Rene; and Guyot, Claude, 3,664,917.

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Guzowski, Richard M.: See—
Insolio, Thomas A.; Guzowski, Richard M.; and Steinkamp, Robert A., 3,682,027.

Guzy, Daniel James: See—
Applequist, James E.; Johnson, James E.; Okers, Clifford B.; Daniels, Donald V.; James, Richard N.; Roberts, Daniel M.; and Guzy, Daniel James, 3,688,656.

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Brannland, Rolf August; Alsefelt, Per-Erik Ingemar; and Gyllensten, Hans Otto, 3,654,071.
- Gylling-Pedersen, Ole: See—
De Musquiz Reumert, Jorgen; Gylling-Pedersen, Ole; and Casals, Jose Bou, 3,666,749.
- Gyllstrom, Richard G.: See—
Butcher, James; Gyllstrom, Richard G.; and Lamb, William Doyle, 3,670,760.
- Gynn, George E.: See—
Crouch, Thomas J.; and Gynn, George E., 3,704,397.
- Gynn, Gilbert M.: See—
Berry, David A.; and Gynn, Gilbert M., 3,644,242.
Berry, David A.; and Gynn, Gilbert M., 3,658,801.
Berry, David A.; and Gynn, Gilbert M., 3,679,727.
Berry, David A.; and Gynn, Gilbert M., 3,700,613.
- Gynt, Lars; and Holm, Lennart, to Linden-Alimok AB. Hoisting crane. 3,706,285, 12-19-72, Cl. 104-124,000.
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Toldy, Lajos; Borsi, Jozsef; Elek, Sandor; Elekes, Istvan; and Andrási, Ferenc, 3,671,537.
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Dillon, Joseph F., Jr.; Gyorgy, Ernst M.; and Remeika, Joseph P., 3,637,289.
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- Gyrex Corporation, mesne: See—
La Canfora, Peter S., 3,703,858.
- Gyromat Corporation, The: See—
Wiggins, Richard F., 3,648,717.
- Gysin, Leonard, Dr.: See—
Blattner, Hans; and Schindler, Walter, 3,636,046.
- Gysling, Walter, to Data Action Corporation. Magnetic tape transport. 3,666,204, 5-30-72, Cl. 242-189.
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Fekete, Laszlo; Patáricza, Imre; Bodi, Dezso; Gyuricza, Jozsef; Miskei, Mihaly; and Orszag, Ferenc, 3,650,688.
- Gyurk, Warren Joseph: See—
Stetson, Harold Wilbur; and Gyurk, Warren Joseph, 3,698,923.
- H & G Industries, Inc.: See—
Greenwood, William S., 3,667,788.
- H & H Equipment Co.: See—
McGee, Donald J., 3,674,249.
McGee, Donald J., 3,693,964.
- H & I Tag Lift Corporation: See—
Heinze, Alvin L., 3,659,671.
- H. B. Engineering Corporation: See—
Genter, Roland E.; and Connell, Raymond S., Jr., 3,636,446.
- H. R. Electronics Company: See—
Johnson, Stanley G., II, 3,687,255.
- H-2-O Filter Corporation, The: See—
Dock, Mortimer Russell, 3,664,569.
Dock, Mortimer Russell, 3,685,521.
O'Neil, Cyril F., Jr., 3,683,936.
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Habermehl, Gerhard; and Haaf, Arthur, 3,655,649.
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Haag, Adolf, 3,688,561.
- Haag, Albrecht; and Siefert, Roland. Timepiece with sweep second hand and hand-setting means. 3,686,885, 8-29-72, Cl. 58-85,500.
- Haag, Hermann: See—
Muller, Willy; Wurm, Bruno; and Haag, Hermann, 3,673,332.
- Haag, Karl, to Messrs. Eugen Hirschburger KG. Winding machine with a reciprocating yarn guide. 3,633,836, 1-11-72, Cl. 242-43.
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Papritz, Hans, 3,685,779.
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Caesar, Philip D.; Haag, Werner O.; and Wise, John J., 3,647,916.
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Stafsudd, Oscar M.; and Haak, Frederik A., 3,701,046.
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Jankowski, Alfons; Glaesmann, Otto-Ernst; and Haake, Gerhard, 3,698,196.
- Haani, Martti: See—
Bryk, Petri; Haani, Martti; Honkasalo, Jorma B.; Kinnunen, Jorma; Lindsjo, Olle; Nyholm, Erik; Poijarvi, Jaakko; Rastas, Jussi; and Kangas, Juhani, 3,677,696.
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Mai, Erich, 3,632,086.
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- Haar, Leonard W., to Shell Oil Company. Waste-heat boiler. 3,662,717, 5-16-72, Cl. 122-7.
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- Haarmann & Reimer Gesellschaft mit beschränkter Haftung: See—
Neurath, George; Gewe, Jürgen; and Dunger, Michael, 3,651,815.
- Streschnak, Benno; and Doll, Willy, 3,644,614.
- Haarmann, Howard J.: See—
Buonsante, John J.; Freericks, Lambert; Haarmann, Howard J.; and Sieglinger, John C., 3,697,702.
- Haas, Carl: See—
Haas, Carl; and Stabe, Heinrich (said Stabe assor. to said), 3,681,692.
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- Haas, Charles H., to Budd Company, The. Method of making flexible brake bands. 3,670,392, 6-20-72, Cl. 29-411,000.
- Haas, Charles William, Jr., to Bell Telephone Laboratories, Incorporated. Telephone line testing arrangement. 3,662,125, 5-9-72, Cl. 179-175,2.
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Nutzell, Karl; and Haas, Friedrich, 3,634,376.
Nutzell, Karl; Dinges, Karl; and Haas, Friedrich, 3,639,660.
Nutzell, Karl; Haas, Friedrich; and Marwede, Gunter, 3,684,781.
Nutzell, Karl; Haas, Friedrich; and Marwede, Gunter, 3,687,889.
Witte, Josef; Haas, Friedrich; and Marwede, Gunter, 3,687,889.
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- Haas, Herbert: See—
Munk, Edmund; Haas, Herbert; and Weinberg, Gerd, 3,697,208.
Haas, Herbert G.; Munk, Edmund; Fink, Alfred; and Klink, Erich, to Wergalit-Pressholwerk J. F. Werz, Jr., K.G. Apparatus for molding articles of uneven thickness. 3,663,137, 5-16-72, Cl. 18-26.
Haas, Herbert G.; Munk, Edmund; and Fink, Alfred. Method for molding articles of uneven thickness. 3,665,065, 5-23-72, Cl. 264-113,000.
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Konecny, Jan; Haas, Jan T.; and Groenewald, Hans E., 3,674,224.
- Haas, Jan Tomas: See—
Studer, Hans-Luzius; Petri, Eckart; Wurmstedt, Karl; and Haas, Jan Tomas, 3,704,828.
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Reber, Willy Ernst; Nigst, Henry; Haas, Josef; Batzer, Hans; and Zuppinger, Paul, 3,669,708.
- Haas, Karl Heinz, to Leitz, Ernst, GmbH. Accessory for microscopes for use as a two-beam photometer. 3,664,751, 5-23-72, Cl. 356-219,000.
- Haas, Kenneth C.: See—
Koschoff, John; Haas, Kenneth C.; and Pettit, Robert F., 3,665,878.
Pettit, Robert F.; Haas, Kenneth C.; and Gibson, Leslie W., Jr., 3,633,799.
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- Haas, Werner E. L.: See—
Adams, James E.; and Haas, Werner E. L., 3,669,525.
Adams, James E.; Leder, Lewis B.; and Haas, Werner E. L., 3,679,290.
- Wysocki, Joseph J.; Adams, James E.; Becker, James H.; Madrid, Robert W.; and Haas, Werner E. L., 3,652,148.
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Mechlowitz, Bela; Adams, James E.; and Haas, Werner Erwin Louis, 3,666,948.
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Sawyer, Elbert M.; and Haas, William M., 3,684,935.
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O'Shea, Ronald J.; Haase, Bernd W.; and Hawkins, Albert W., 3,656,271.
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McKee, Robert G.; and Haase, Thomas W., 3,689,880.
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Almen, Torsten H. O.; Haavaldsen, Johan; and Nordal, Vegard, 3,701,771.
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- Haban, Joseph. Method of manufacturing shear fingers for sickle bars. 3,682,021, 8-8-72, Cl. 76-101,000.
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- Habata, Hidetsugu: See—
Kimura, Isao; and Habata, Hidetsugu, 3,639,953.
- Habayeb, Jabbour: See—
Soussa, Elie Michel; and Habayeb, Jabbour, 3,669,126.
- Habeck, Bruce W.; and Miller, Donald E., to Goodyear Tire & Rubber Company, The. Stabilization of polymers against post-polymerization crosslinking. 3,703,586, 11-21-72, Cl. 260-45,95r.
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- Habegger, Oskar: See—
Strebel, Albert; and Habegger, Oskar, 3,657,972.
Strebel, Albert; and Habegger, Oskar, 3,677,107.
- Habel, Ronald D.: See—
Willis, Douglas A.; Habel, Ronald D.; and Shepherd, Robert D., 3,654,013.
- Haber, Arno. Ceramic ware deburring machine and dressing heads. 3,641,991, 2-15-72, Cl. 125-10.
- Haber Instruments, Inc.: See—
Haber, Norman, 3,700,176.
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- Haberhauer, Hertha: See—
Haberhauer, Karl; and Haberhauer, Hertha, 3,664,380.
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Haberkorn, Ottmar; and Heller, Gunter, 3,690,749.
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Margetta, Hugh Grenville; and Habgood, Gordon Alfred, 3,661,233.
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Waage, Bard Meyer, 3,639,960.
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Libis, Bernard; and Habicht, Ernst, 3,651,094.
Zergenyi, Janos; and Habicht, Ernst, 3,674,810.
Zergenyi, Janos; and Habicht, Ernst, 3,676,560.
Zergenyi, Janos; and Habicht, Ernst, 3,682,961.
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Klug, William A.; Habiger, Andrew A.; and Bahl, Leonard J., 3,648,502.
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Habuka, Ishi; Habuka, Kazuko; and Habuka, Takashi, 3,660,835.
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Habuka, Ishi; Habuka, Kazuko; and Habuka, Takashi, 3,631,618.
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Hack, Albert G. W.; and Hamilton, John B., 3,701,651.
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Valle, Thomas, 3,664,006.
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Metzger, Carl; Bornmann, Dieter; Wegler, Richard; Eue, Ludwig; and Hack, Helmut, 3,686,198.
Munz, Ferdinand; Hack, Helmut; and Eue, Ludwig, 3,686,204.
Schrader, Gerhard; Eue, Ludwig; Hack, Helmut; Hirane, Seiichi; Aya, Masahiro; Kishino, Shigeo; and Fukazawa, Nobuo, 3,636,143.
Schrader, Gerhard; Eue, Ludwig; Hack, Helmut; Hirane, Seiichi; Aya, Masahiro; Kishino, Shigeo; and Fukazawa, Nobuo, 3,705,929.
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Bunn, Dorrance P., Jr.; and Hack, Werner L., 3,690,841.
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Engelsmann, Dieter; Hackenberg, Hubert; Putscher, Johann; and Strittmatter, Rolf, 3,643,100.
Engelsmann, Dieter; Hackenberg, Hubert; and Prummer, Helmut, 3,688,661.
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Jones, William S.; and Hacker, Philip S., 3,697,993.
Staehlin, John H.; and Hacker, Philip S., 3,707,720.
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Gray, Thomas J.; Picchiottino, John B.; and Hackett, Kenneth R., 3,694,574.
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Poziomek, Edward J.; Hackey, Ethel B.; Hoy, Daniel J.; and Friedman, Harry George, Jr., 3,689,223.
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Hirshfeld, Julian J.; Reuben, Bertie J.; and Hacklander, Egon H., 3,682,582.
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Beddoe, Brian; and Hackling, David Charles, 3,688,957.
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Leopold, Wilbur R.; Hackman, Frank C.; Floren, Carl E.; and Gould, Wallace E., 3,687,492.
Leopold, Wilbur R., Jr.; Smith, John J.; Hackman, Frank C.; Luckenbill, Lawrence F.; and Daghe, Joseph L., 3,633,873.
Leopold, Wilbur R., Jr.; Smith, John J.; Hackman, Frank C.; Luckenbill, Lawrence F.; and Daghe, Joseph L., 3,662,778.
Luckenbill, Lawrence F.; and Hackman, Frank C., 3,669,475.
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Davies, James M.; Hackmann, Larry G.; Peterson, Robert A.; Smith, Roger M.; and Wirt, Leon A., 3,659,654.
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Hackney, Ralph H., to Hackney, J. A., & Sons, Inc. Combined truck body and wheeled rack and method of loading and unloading a van. 3,667,635, 6-6-72, Cl. 214-515.000.
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Graham, James T.; and Hackstock, Fred W., 3,648,346.
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Stern, Lionel; and Hadaway, Bernard Milton, 3,635,063.
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Fagan, Lloyd D.; Hadden, David R., Jr.; Haratz, David; and Sarlo, Lorenz M., 3,646,526.
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McKee, Francis G.; and Haddon, Roger C., 3,636,758.
McKee, Francis G.; and Haddon, Roger C., 3,693,568.
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Chaney, Clarence E.; and Haddox, Wendell L., 3,665,823.
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Freake, Ronald; Gunter, Claude Ray; Haden, Billy Harper; and Mhatre, Nagesh Shamrao, 3,704,206.
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Gries, Heinz; Hader, Josef; and Steinbeck, Hermann, 3,691,213.
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Woo, Jung Woo; Waters, Paul F.; Horowitz, Raymond H.; and Hadermann, Albert F., 3,662,046.
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Barclay, John Lynn; Gasson Edward James; and Hadley, David James, 3,681,421.
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Head, Glenn Dale; and Hadley, Howard C., 3,646,732.
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Duffy, Joseph J.; and Sims, Stuart Donald, 3,641,307.
Duffy, Joseph J.; and Dunbar, Alexander S., 3,696,308.
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Brown, John Johnston; and Hady, Robert Allis, Jr., 3,634,430.
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Fritsch, Werner; Haede, Werner; Radscheit, Kurt; Stache, Ulrich; and Lindner, Ernst, 3,639,392.
Fritsch, Werner; Stache, Ulrich; Haede, Werner; and Radscheit, Kurt, 3,639,393.
Radscheit, Kurt; Stache, Ulrich; Haede, Werner; Fritsch, Werner; and Lindner, Ernst, 3,641,009.
Radscheit, Kurt; Fritsch, Werner; Haede, Werner; and Stache, Ulrich, 3,657,228.
Radscheit, Kurt; Fritsch, Werner; Haede, Werner; Stache, Ulrich; and Schroder, Hans-Georg, 3,657,434.
Radscheit, Kurt; Kelkheim, Taunus; Stache, Ulrich; Haede, Werner; Hofheim, Taunus; Fritsch, Werner; Neuenhain, Taunus; and Lindner, Ernst, 3,681,344.
Radscheit, Kurt; Kelkheim, Taunus; Fritsch, Werner; Neuenhain, Taunus; Haede, Werner; Stache, Ulrich; Hofheim, Taunus; and Lindner, Ernst, 3,682,891.
Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Radscheit, Kurt, 3,639,394.
Stache, Ulrich; Haede, Werner; Fritsch, Werner; Radscheit, Kurt; and Schroder, Hans-Georg, 3,663,579.
Stache, Ulrich; Radscheit, Kurt; Fritsch, Werner; Haede, Werner; and Lindner, Ernst, 3,674,779.
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Bishop, Eugene T.; Haefele, Walter R.; and Hendricks, Willis R., 3,639,163.
Seymour, Errol V.; Davison, Sol; and Haefele, Walter R., 3,682,187.
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- Lindtveit, Torleif; Johnsen, Leif; and Haegland, Borge F., 3,668,778.
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- Ruter, Hermann; Cherdron, Egon; Haerter, Manfred; and Bayer, Gerhard, 3,663,202.
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- Hafeli, Hans-Rudolf: See—
- Genzel, Hans-Ulrich Werner; Hafeli, Hans-Rudolf; and Steiner, Hans Robert, 3,671,718.
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- Hafer, Karl-Heinz: See—
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- Hafer, Paul M., to Arrow-Hart, Inc. Bus duct. 3,636,237, 1-18-72, Cl. 174-68.
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- Hafler, David, to Dynaco Inc. Two-channel, four-component stereophonic system. 3,697,692, 10-10-72, Cl. 179-1.00g.
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- Hafner, Theodore. Frequency adjustment for two-way video transmission. 3,706,996, 12-19-72, Cl. 343-186.000.
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- Hafner, William F.: See—
- Shim, Benjamin K. C.; Blenner, Donald R.; Dudek, Thomas J.; and Hafner, William F., 3,634,299.
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- Hagan Industries, Incorporated: See—
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- Hagan, James J.; Chanod, Edward E.; Feldman, Robert S.; and Cords, Helmut, to Squibb, E. R., & Sons, Inc. Process for removal of particle-forming proteins from blood sera. 3,706,660, 12-19-72, Cl. 210-21.000.
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- Hagans, Fredrick S.: See—
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- Hagar, Donald K., to Mosser Industries, Incorporated. Gate valve. 3,636,971, 1-25-72, Cl. 137-238.
- Hagarman, Paul O.: See—
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- Hage, Carl H., to General Fireproofing Company, The. Drawer divider. 3,656,651, 4-18-72, Cl. 220-22.3.
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- Hagen, Kenneth G., to General Electric Company. Underwater diving mask. 3,672,750, 6-27-72, Cl. 351-43.000.
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- Hagen, Oscar M. Treadmill exercising device with yieldable belt support. 3,689,066, 9-5-72, Cl. 272-69.000.
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- Hagen, William Dobson, to Dominion Bridge Company Limited. Structural steel conveyor line. 3,673,658, 7-4-72, Cl. 29-155.005.
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- Hagenbach, Robert J., to Xerox Corporation. Method for producing glass beads for electrostatic photographic developers. 3,658,500, 4-25-72, Cl. 65-21.000.
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- Hagenstad, Roy W. Rotary cultivator assembly. 3,650,334, 3-21-72, Cl. 172-540.
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- Peterson, Francis C., 3,657,766.
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- Hager, Clarence H., to Modern Caster Co., Inc. Tire tray construction. 3,680,710, 8-1-72, Cl. 211-24.000.
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- Hager, Robert Bonner, to Pennwalt Corporation. Alkyl esters of fluoroalkyl dicarboxylic acids. 3,706,787, 12-19-72, Cl. 260-481.00r.
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- Hagerty, William Kenneth. Apparatus for automobile damage correction. 3,680,353, 8-1-72, Cl. 72-420.000.
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- Shachat, Norman; Haggard, Richard A.; and Lewis, Sheldon N., 3,689,470.
- Haggas, John S.: See—
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- Haggis, Geoffrey Arthur; Jones, Michael Edward Benet; and Knight, Michael Horace, to Imperial Chemical Industries Limited. Carbon fibre-reinforced polyurethane composites. 3,669,920, 6-13-72, Cl. 260-37.00n.
- Haglund, John Martin. Device for scraping off and collection of medical refuse and for prevention of its spread. 3,667,079, 6-6-72, Cl. 15-105.
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Kai, Tsunetoshi; Hagihara, Takeaki; and Ishido, Teruhisa, 3,677,920.
- Hagin, John D.: See—
Jungjohann, Vernon H.; and Hagin, John D., 3,664,736.
- Hagino, Hiroshi: See—
Nakayama, Kiyoshi; and Hagino, Hiroshi, 3,671,396.
Nakayama, Kiyoshi; and Hagino, Hiroshi, 3,684,652.
Nakayama, Kiyoshi; and Hagino, Hiroshi, 3,687,809.
Nakayama, Kiyoshi; Tanaka, Haruo; and Hagino, Hiroshi, 3,700,557.
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Hagino, Seiji; Masuda, Kohei; Hasegawa, Kazumasa; and Hosono, Yasuzi, 3,655,486.
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Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo, 3,649,689.
Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo, 3,666,785.
Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo, 3,666,786.
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Katagiri, Keizo; Kuroishi, Kenji; Nakamura, Kazuchika; and Hagiwara, Katsutoshi, 3,661,671.
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Kagiya, Tsutomu; Hagiwara, Miyuki; and Okamoto, Hidemasa, 3,663,391.
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Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Sazuo, Konishi, 3,642,900.
Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo, 3,649,689.
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Kumai, Ko; Motoyoshi, Minoru; Tanaka, Kiyoshi; and Hagihara, Yasuhira, 3,671,337.
- Hagiwara, Yukio, to Pioneer Electronic Corporation. Device for moving a pinch roller. 3,662,938, 5-16-72, Cl. 226-90.
- Hagiwara, Zenji, to Nippon Rensui Kabushiki Kaisha. Lithium isotope separation. 3,701,638, 10-31-72, Cl. 23-312.000.
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- Hagley, Samuel J., Jr., to Deering Milliken Research Corporation. Washable rugs. 3,681,130, 8-1-72, Cl. 117-143.00a.
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Finlay, Joseph B.; and Hagman, John F., 3,655,827.
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- Hagmann, Foster M. Ring seal for stationary members. 3,671,046, 6-20-72, Cl. 277-170.
- Hagopian, Jacob John, to International Business Machines Corporation. Low profile single turn magnetic recording head with read/write winding coupled to single turn winding. 3,660,617, 5-2-72, Cl. 179-100.20c.
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Schmid, Hans; Feldhoff, Heinrich; Martin, Wolfgang; Fessmann, Heinz; and Hahn, Edeleried, 3,640,063.
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Radnik, Joseph L.; Hahn, Edward E.; and Ridenour, Wayne F., 3,657,875.
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Burkhardt, Gottfried; and Hahn, Erwin, 3,637,805.
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Bump, Charles K.; and Hahn, Frank J., 3,666,832.
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Keller, Horst; and Hahn, Gunter, 3,639,723.
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Pretorius, Victor; and Hahn, Hans Helmut, 3,694,335.
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Scherer, Otto; Hahnle, Reinhard; and Schneider, Gunter, 3,681,422.
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Bergmeyer, Hans Ulrich; Haid, Erich; Nelboeck-Hochstetter, Michael; and Pelz, Otmar, 3,662,037.
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Behn, Reinhard; Gottlob, Heinrich; Haid, Hans; Hoyler, Gerhard; and Kessler, Hartmut, 3,670,378.
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Easton, Waldron Albert; and Haidy, Mark Allan, 3,650,432.
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Michetti, Louis C.; Haines, Grover C.; Taylor, William F.; and Nemoede, Paul A., 3,633,814.
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Albert, Harry Elmer; and Haines, Paul Gordon, 3,632,564.
Yochum, Daniel William; Haines, Paul Gordon; and Popoff, Ivan C., 3,674,701.
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Osborne, Denis A. N.; Haines, Robert C.; and Kilshaw, John A., 3,703,824.
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Anderson, Jerrold L.; Haines, Robert C., Jr.; and Powell, Thomas C., 3,694,372.
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Gordon, Richard O., 3,696,881.
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Rohrer, Daniel F.; and Hait, Paul W., 3,648,977.
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Whitworth, Anthony James; Tung, Stephen yi-Sun; and Hajto, Ernest Anthony, 3,686,872.
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Domokos, Jozsef; Benedek, Gyorgy; Kiss, Bela; Winkler, Laszlo; and Beller, Zoltan, 3,676,316.
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Bakke, Jan Magnus; Heikman, Harald Erik; Hakanson, Christer Lennart; and Nilsson, John Martin, 3,694,505.
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Bakke, Jan Magnus; and Hakansson, Christer Lennart Lennart, 3,637,857.
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Bofinger, Karl; and Hake, Walter Thomas, 3,690,997.
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Engel, William K.; Norick, William B.; Saint Germain, James L.; and Hakkenberg Van Gaasbeek, Peter, 3,635,126.
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Koga, Motoyuki, 3,704,564.
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Isumi, Ichizo, 3,694,858.
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Halaby, Samuel A., Jr., 3,645,568.
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Cheng, Tai Chun; and Halasa, Adel F., 3,635,922.
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Ellis, Gaylord O.; and Halat, John A., 3,698,286.
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Callender, Jack E.; Halbedel, Don Edward; Bagwell, Benjamin J.; Horning, James Leroy; Lissakers, Erik Axel; Long, Joseph Harold; and Schweitzer, Cameron C., 3,702,381.
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Petropoulos, Spyros K.; Jehlc, Robert E.; and Halberstam, Mendel M., 3,641,350.
- Halbert, Silas Ray, to Documentation Inc. Card handling mechanism. 3,690,644, 9-12-72, Cl. 271-29.000.
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Halford, George C., 3,646,628.
- Halbrook, Noah J.: See—
Berry, David A.; Bunk, Albert R.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., 3,652,474.
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- Mueller, William J.; Berry, David A.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., 3,634,352.
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Choo, Chai Y., 3,682,782.
- De Maio, Dennis A., 3,664,970.
- Golden, Richard L.; and Mazzella, Gerald, 3,679,751.
- Hoch, Robert; and Gilman, Harold, 3,644,432.
- Hoch, Robert, 3,647,892.
- Kollar, John, 3,668,239.
- Kollar, John, 3,689,535.
- Onsager, Olav T., 3,644,453.
- Onsager, Olav T., 3,644,455.
- Onsager, Olav T., 3,644,473.
- Onsager, Olav T., 3,644,474.
- Onsager, Olav T., 3,644,475.
- Onsager, Olav T., 3,644,476.
- Onsager, Olav T., 3,644,477.
- Onsager, Olav Torgeir, 3,671,567.
- Onsager, Olav Torgeir, 3,671,568.
- Russell, Joseph L., 3,665,028.
- Thiel, Reinhard; and Ellendt, Gunther, 3,677,819.
- Winnick, Charles N.; and Pugach, Joseph, 3,632,635.
- Winnick, Charles N., 3,657,335.
- Halcoussis, Andrew: See—
Makhlof, Joseph M.; Christenson, Roger M.; and Halcoussis, Andrew, 3,666,710.
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Berg, Kjell Willy, 3,703,985.
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Chrysanthis, Chris A.; and Kourtoglou, George Chris, 3,669,254.
- Haldopoulos, Ioakim; and Niemann, James Edward, to American Standard, Inc. Drain for plumbing fixtures. 3,680,153, 8-1-72, Cl. 4-191.
- Haldor Frederik Axel: See—
Knudsen, Poul E., 3,644,097.
- Hale, David A.; and Housman, Earl R. Vehicular antitheft device having relay switches for interrupting induction coil circuit and for activating an alarm. 3,656,102, 4-11-72, Cl. 340-64.
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- Hale, Frank E., Sr.: See—
Hale, Frank E., Jr.; and Hale, Frank E., Sr., 3,670,896.
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Stiefvater, Thomas L.; Greiner, James G.; Hale, John K.; and Waldrop, Thomas W., 3,664,105.
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Simon, Sydney; Simon, Morris; Hale, John S.; and Markward, Charles J., 3,682,557.
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Pope, George A.; Hale, Peter T.; and Bird, David A., 3,646,167.
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Munro, Robert Gordon; and Hale, Rodney Barker, 3,631,603.
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- Hale, Thomas E., to General Electric Company. Sintered tungsten carbide-base alloys. 3,698,878, 10-17-72, Cl. 29-182.700.
- Hale, Thomas F., to Capital Machine Company, Inc. Extension dog system for veneer slicer. 3,680,612, 8-1-72, Cl. 144-178.000.
- Hales, Eric Charles: See—
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- Hales, Paul N. Shirt display hanger. 3,692,269, 9-19-72, Cl. 248-360.000.
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- Keith, Carl D.; Haley, Alfred J., Jr.; and Kero, Robert M., 3,677,815.
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Bannister, Brian Charles, 3,685,185.
- Haley, Thomas W.: See—
Orzechowski, John F.; and Haley, Thomas W., 3,676,038.
- Half, Albert H.; and Reid, Allen F. Apparatus for emptying and refilling liquid in a reservoir. 3,675,829, 7-11-72, Cl. 222-204.000.
- Halfhill, Martin O.: See—
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- Halfhill, Martin O.; and Sordello, Frank J., to Information Storage Systems, Inc. Balance circuit for D.C. servos. 3,646,420, 2-29-72, Cl. 318-634.
- Halfmann, Heinrich, to International Standard Electric Corporation. Circuit arrangement for coupling, holding and releasing of cross-point relays in a connection path in telecommunication systems. 3,651,273, 3-21-72, Cl. 179-18.
- Halfon, Albert, to Air Reduction Company, Incorporated. Undersea life support system. 3,690,040, 9-12-72, Cl. 55-46.000.
- Halford, George C., to Halbrand, Inc. Combination toothbrush and pick. 3,646,628, 3-7-72, Cl. 15-118.
- Halgren, John A.: See—
Young, William P.; and Halgren, John A., 3,669,652.
- Halgren, Phyllis Mott: See—
Mott, Carl W., 3,698,168.
- Halibrand, Henry T. Transmission. 3,691,862, 9-19-72, Cl. 74-379.000.
- Halik, Joseph J.: See—
Kaplow, Milton; and Halik, Joseph J., 3,634,104.
- Halik, Joseph John: See—
Cseri, Joseph; Halik, Joseph John; and Kaplow, Milton, 3,655,400.
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- Halik, Joseph John, to General Foods Corporation. Pasta process and products. 3,655,401, 4-11-72, Cl. 99-85.
- Halinski, Michael J.; and Wanschek, Larry J., to Sun Electric Corporation. Frequency-sensitive triggering techniques. 3,662,192, 5-9-72, Cl. 307-293.
- Halkema, Maarten. Thermostatic mixer for hot and cold liquids. 3,642,199, 2-15-72, Cl. 236-12.
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- Halkey-Roberts Corporation: See—
Mackal, Henry H.; and Behnke, Kenneth P., 3,696,494.
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- Hall, Alan Frank, to Imperial Chemical Industries Limited. Method of sealing or jointing. 3,686,375, 8-22-72, Cl. 264-32.000.
- Hall, Alvin Lee: See—
Bowman, Ronald W.; and Hall, Alvin Lee, 3,682,244.
- Hall, Antony Harold Patrick; and Dancer, Stuart Neil, to BP Chemicals Limited. Production of nitrogen-containing derivatives of 1,12-dodecanedioic acid. 3,705,152, 12-5-72, Cl. 260-239.30r.
- Hall, Arthur E. Flagg staff anchor. 3,700,196, 10-24-72, Cl. 248-44.000.
- Hall, Barbara Ann: See—
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- Hall, Bartley E., to Auto-Swage Products, Inc. Method of forming electrical connectors. 3,665,600, 5-30-72, Cl. 29-629.
- Hall, Bertie Forrest, Jr., to Wolgast, Raymond P. Portable floor anchor. 3,659,678, 5-2-72, Cl. 188-5.
- Hall, C. P., Company of Illinois, The: See—
Kuceski, Vincent P., 3,676,344.
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- Stonis, Joseph E., 3,632,783.
- Hall, Charles H.; Young, Albert L.; and Young, N Keith, to TRW Inc. Large area deployable spacecraft antenna. 3,699,581, 10-17-72, Cl. 343-705.000.
- Hall China Company: See—
Simmen, Fred G., 3,655,843.
- Hall, Clark J.: See—
Grinnell, Fred I.; and Hall, Clark J., 3,670,941.
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Leavitt, Clyde M.; Johnson, Walter C.; and Hall, Con C., IV, 3,670,682.

- Hall, Crayton G., to Ethyl Corporation. Process for producing foamed metal. 3,692,513, 9-19-72, Cl. 75-20.00f.
- Hall, Daniel N.: *See—*
Oswald, Alexis; Hall, Daniel N.; and Griesbalm, Karl, 3,686,326.
- Hall, David W.: *See—*
Coleman, John R., Jr.; Hall, David W.; and Dormish, Frank L., 3,636,124.
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- Hall, David W., to Marathon Oil Company. Recovery of basic organic materials from their hydrolysis products. 3,663,643, 5-16-72, Cl. 260-681.
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- Hall, David W.; Lindholm, John A.; Romankiw, Lubomyr T.; and Schmeckenbecher, Arnold F., to International Business Machines Corporation. Process for electrolessly plating magnetic thin films. 3,702,263, 11-7-72, Cl. 117-240.000.
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Robbins, John E.; Willbond, William F.; Tutt, Kingsley J.; Hall, Dennis S.; and Hanson, Raymond, 3,663,139.
- Hall, Donald B.: *See—*
Cooke, Harry F.; Weber, Roger L.; Hall, Donald B.; and Whitten, Darrell W., 3,659,205.
- Hall, Douglas Wilson: *See—*
Higginbotham, Gordon John Spencer; and Hall, Douglas Wilson, 3,677,324.
- Hall, Doyle J.: *See—*
Pape, Wayne; and Hall, Doyle J., 3,695,225.
- Hall, Edwin F., to Alden Self-Transit Systems Corporation. Transportation system. 3,675,584, 7-11-72, Cl. 104-28.000.
- Hall, Elmer Linwood; and Looby, John Thomas, to Du Pont de Nemours, E. I., and Company. Alkanolamine stabilized high solids titanium dioxide slurry. 3,702,773, 11-14-72, Cl. 106-300.000.
- Hall, Floyd V., to Liggett & Myers Incorporated. Automatic cigarette feed machine having a vacuum belt conveyor. 3,675,761, 7-11-72, Cl. 198-184.
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Perez, Henry C., 3,688,632.
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Walker, Brooks; and Hall, Fred V., 3,631,845.
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Radke, Arthur O.; Hall, Garth O.; and Tengler, Harvey N., 3,702,179.
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- Hall, George D., to Rockwell Manufacturing Company. Permanent magnet motors. 3,686,524, 8-22-72, Cl. 310-154.000.
- Hall, George Ernest Herbert, to Sheepbridge Stokes Limited. Cylinder liner. 3,641,882, 2-15-72, Cl. 92-171.
- Hall, George H.: *See—*
Flood, Harold W.; Hall, George H.; and Meissner, Herman P., 3,652,427.
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Brown, Ray B.; Fluhr, Frederick R.; and Hall, George L., 3,698,797.
- Hall, George Roberts; and Lyall, Robert Alexander. Drawing of sheet metal. 3,636,748, 1-25-72, Cl. 72-349.
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- Hall, Harold H., Sr. Fishing rod holder for boats. 3,671,001, 6-20-72, Cl. 248-43.000.
- Hall, Harold R., to Libbey-Owens-Ford Company. Method of bending glass sheets. 3,676,098, 7-11-72, Cl. 65-106.000.
- Hall, Harry P., to Diversified Metals, Inc. Trailer construction. 3,690,490, 9-12-72, Cl. 214-506.000.
- Hall, Henry B.; and Hill, Norman W., to International Telephone and Telegraph Corporation. Thermostatically controlled liquid heating tank. 3,638,619, 2-1-72, Cl. 122-13.
- Hall, Henry K., Jr.; and Florde, Donald E., to Du Pont de Nemours, E. I., and Company. Preparation of cyclobutanone by cycloaddition of ethylene and ketene. 3,646,150, 2-29-72, Cl. 260-586.
- Hall, Herbert J.: *See—*
Walker, Alan B.; and Hall, Herbert J., 3,633,337.
- Hall, Homer H., Jr.: *See—*
Huchette, Paul V.; and Hall, Homer H., Jr., 3,682,466.
- Hall, Homer J.: *See—*
Spenadel, Lawrence; Hall, Homer J.; and Kirshenbaum, Isidor, 3,697,455.
- Hall, Hugh. Dispenser for tape material. 3,684,141, 8-15-72, Cl. 225-65.000.
- Hall Industries, Inc.: *See—*
Ross, John A., 3,638,888.
- Hall, Jack G. Rhythm traps. 3,704,340, 11-28-72, Cl. 84-170.000.
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Branch, Geoffrey Hindle; Hall, James Edward; Bickerstaff, Kenneth; and Russell-Rayner, Albert Patrick, 3,680,677.
- Hall, James L. Nutcracker. 3,688,825, 9-5-72, Cl. 146-16.000.
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Bancroft, James R.; Cleavinger, Richard L.; Hall, James M.; and Harris, Mark, 3,634,691.
- Hall, James R., to United States of America, Air Force. Guided missile trajectory alignment method. 3,693,909, 9-26-72, Cl. 244-3.200.
- Hall, Jeffrey, to Houdaille Industries, Inc. Method of making tuned torsional viscous vibration dampers. 3,707,031, 12-26-72, Cl. 29-455.000.
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- Hall, John A., Sr., to Weatherford Oil Tool Company, Inc. Centralizer. 3,643,739, 2-22-72, Cl. 166-241.
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- Hall, John B., to International Flavors & Fragrances Inc. Indanol derivatives and processes for producing same. 3,636,165, 1-18-72, Cl. 260-617.
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- Hall, John P., to Baxter Laboratories, Inc. Needle guard. 3,658,061, 4-25-72, Cl. 128-214.4.
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Trieste, Mario R.; Hall, Kenneth; and McCrady, Samuel, 3,653,305.
- Hall, Kilmer L., to United States of America, Army. Semi-automatic television tracking system. 3,646,263, 2-29-72, Cl. 178-6.8.
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Mac Phail, Larry S.; Ray, Harold; Smith, Oral P.; and Hall, Lee C., 3,682,054.
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- Hall, Lewis W., Jr.: *See—*
Hollstein, Elmer J.; and Hall, Lewis W., Jr., 3,705,885.
- Hall, Lou H.: *See—*
Carbajal, Bernard G., III; Gosney, William Milton; and Hall, Lou H., 3,673,679.
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- Hall, M. Lewis, Sr.: *See—*
Welch, Louis S., 3,653,182.
- Hall, Maclin S.: *See—*
Grier, John D.; and Hall, Maclin S., 3,706,552.
- Hall, Maclin S., to Owens-Illinois, Inc. Discontinuous electrode for electrophotography. 3,649,116, 3-14-72, Cl. 355-12.
- Hall, Maclin S.; and Moore, Robert H., to Owens-Illinois, Inc. Part classifying device. 3,661,257, 5-9-72, Cl. 209-101.
- Hall, Maclin S., to Owens-Illinois, Inc. Visual display and memory system. 3,686,686, 8-22-72, Cl. 340-324.00r.
- Hall, Marvin J., to United States of America, Army. Air current operated land mine. 3,680,482, 8-1-72, Cl. 102-8.000.
- Hall, Maurice B., 1/3 to Bowling, Harold F. and 1/3 to Gitlin, Edward E. Clock scale demonstrator. 3,670,428, 6-20-72, Cl. 35-39.000.
- Hall, Michael Edgar; and Negus, Malcolm, to Fibreglass Limited. Polyol/lactam/synthetic resin modified urea-formaldehyde resins. 3,637,549, 1-25-72, Cl. 260-17.3.
- Hall, Myron W.; and Chapman, Harvey A., to Minnesota Mining and Manufacturing Company. Elastomeric shoe sole mold. 3,632,278, 1-4-72, Cl. 425-450.
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- Hall, Norman T., to Liquid Nitrogen Processing Corporation. Process for production of glass-filled thermoplastic pellets suitable for blending with thermoplastic. 3,702,356, 11-7-72, Cl. 264-141.000.
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Allen, David Henry Odhams; Hall, Raymond Frederick; and Weston, George Frederick, 3,701,918.
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- Hall, Raymond John; and Webb, Derek James, to Broom and Wade Limited. Control means for reversible fluid pressure operated motors. 3,635,605, 1-18-72, Cl. 417-315.
- Hall, Richard E.; and Segar, Lawrence P., to International Business Machines Corporation. Dynamic discrimination reference level generator for a parallel channel optical document scanner. 3,701,099, 10-24-72, Cl. 340-146.3ag.
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Beaverton, Daniel H.; Hall, Richard H.; and Lange, Clarence E., 3,686,827.
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- Hall, Richard L.: *See—*
Karas, Albert J.; Hall, Richard L.; and Stahl, William H., 3,663,238.
- Hall, Richmond E. Device for use in practising swinging a golf club. 3,656,759, 4-18-72, Cl. 273-185.
- Hall, Robert D. Telescoping camper cabin for trucks. 3,652,119, 3-28-72, Cl. 296-23.
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Krause, Horatio H.; McNulty, Justin S.; and Hall, Robert E., 3,652,213.
- Mezey, Eugene J.; and Hall, Robert E., 3,652,211.
- Hall, Robert M.: *See—*
Kzeniac, Stanley J.; and Hall, Robert M., 3,660,112.
- Hall, Robert M. Locking pin coupling. 3,685,864, 8-22-72, Cl. 287-100.000.
- Hall, Robert N., to General Electric Company. Removal of acceptor impurities from high purity germanium. 3,671,330, 6-20-72, Cl. 148-1.600.
- Hall, Robert T.; and Justen, Donald L., to Kelsey-Hayes Company. Bottom pour stopper. 3,643,680, 2-22-72, Cl. 137-331.
- Hall, Roger D.: *See—*
Clasby, David N.; and Hall, Roger D., 3,686,674.
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- Hall, Roger L.; McKenney, Gordon M., Jr.; and Wall, Alfred J. Light ray projector and target. 3,655,192, 4-11-72, Cl. 273-101.1.
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Holicky, Donald F.; and Hall, Roger P., 3,658,670.
- Hall, Roger P., to SCM Corporation. Process for curing air-inhibited resins by radiation. 3,644,161, 2-22-72, Cl. 156-272.
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Hall, Roger W.; and Spicer, John M. (said Spicer assor. to said), 3,643,733.
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- Hall, Ronald Edward; and Hulbert, Larry Norman, to Ferroxcube Corporation. Machine recognition of symbols. 3,676,848, 7-11-72, Cl. 340-146.3ac.
- Hall, Ronald Gibson. Air-gun projectiles. 3,649,020, 3-14-72, Cl. 273-106.
- Hall, Roy O., Jr. Resistance-bridge security system detecting resistance changes in either direction. 3,653,023, 3-28-72, Cl. 340-285.
- Hall, Russell W., Jr.: *See—*
Clasbet, Alvin O., Jr.; Hoyt, Donald L.; and Hall, Russell W., Jr., 3,684,872.
- Hall, Sean Geoffrey, to Kilco Chemicals Limited. Iodophor dairy sanitants. 3,663,694, 5-16-72, Cl. 424-238.
- Hall Ski-Lift Company, Inc.: *See—*
Hill, Orrin W., 3,656,399.
- Hall, Stanley Rylon; and Nichols, Thomas Gilbert, to Bunker-Ramo Corporation, The. Method and apparatus for detecting the frequency of a repetitive pulse signal. 3,665,512, 5-23-72, Cl. 343-18.00e.
- Hall, Thomas A. Water tester for pools. 3,692,490, 9-19-72, Cl. 23-253.00r.
- Hall, Thomas H., Jr.; Cottrill, Jon R.; and Dubble, Roger D., to Anchor Hocking Corporation. Means for vapor coating. 3,658,304, 4-25-72, Cl. 261-23.
- Hall, Thomas O., Jr.; and Peck, William G., to Bausch & Lomb Incorporated. Control system and code for a graphical plotting machine or like apparatus. 3,702,922, 11-14-72, Cl. 235-61.60r.
- Hall, Walter Dennis; and Charles, Malcolm Jean, to Super Mold Corporation. Tire conditioning apparatus. 3,635,610, 1-18-72, Cl. 18-1.
- Hall, Walter J., to GAF Corporation. Slide projector indexing means. 3,661,451, 5-9-72, Cl. 353-117.
- Hall, Wendell H. Teaching system. 3,680,224, 8-1-72, Cl. 35-9.00e.
- Hall, William Bernard: *See—*
Strater, Kurt; Hall, William Bernard; Mihalick, Eugene Michael; and Stever, William Charles, 3,673,983.
- Hall, William Cornelius; and Peterson, John Merriam. Metallic mortars. 3,645,916, 2-29-72, Cl. 252-478.
- Hall, William D.; and Shaefer, Lewis H., to KMS Industries, Inc. Pressure sensitive fingerprint input for identification apparatus. 3,677,223, 7-18-72, Cl. 118-10.000.
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Cant, Noel W.; and Hall, William K., 3,632,833.
- Cant, Noel W.; and Hall, William K., 3,641,139.
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Bunting, Arthur; and Heighton, Arthur Victor, 3,645,498.
- Halla, Richard C., to Teletype Corporation. Alternate action mechanism with magnetic latch cam follower biasing means. 3,704,353, 11-28-72, Cl. 200-153.00j.
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Barry, Henry F.; Hallada, Calvin J.; and McConnell, Robert W., 3,656,888.
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Cole, John Wayne; and Hallas, Robert, 3,686,187.
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- Hallberg, John E., to Industrial Propane, Inc. Diesel booster. 3,698,365, 10-17-72, Cl. 123-121.000.
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- Hallenrud, Sven Josef Harry: See—
Lindahl, Bo Oscar; Lamme, Seth Eric Valentin; and Hallenrud, Sven Josef Harry, 3,702,734.
- Haller, Albert Heinz: See—
Durr, Helmut Emil; and Haller, Albert Heinz, 3,660,161.
- Haller, Hans R. Hydraulic speed control for air cylinders. 3,687,013, 8-29-72, Cl. 92-8.000.
- Haller, Harry, to Chance Brothers Limited. Glass gripping devices. 3,643,848, 2-22-72, Cl. 226-186.
- Haller, Ivan; and Huggins, Harold A., to International Business Machines Corporation. Additive for liquid crystal material. 3,656,834, 4-18-72, Cl. 350-150.
- Haller, James Gilbert. Scented fireplace fuel. 3,660,055, 5-2-72, Cl. 44-6.
- Haller, James R. Polyimide compositions and metallic articles coated therewith. 3,682,960, 8-8-72, Cl. 260-32.60n.
- Haller, James R., to Minnesota Mining and Manufacturing Company. Insulated electrical conductors coated with polyimide-amide modified polyimide. 3,702,788, 11-14-72, Cl. 117-230.000.
- Haller, John, to Federal-Mogul Corporation. Method of producing substantially solid extrusions from powdered metal. 3,631,583, 1-4-72, Cl. 29-420.5.
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- Haller, Willi, to Hengstler, J., K.G. Data-recording apparatus. 3,644,711, 2-22-72, Cl. 235-61.1.
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- Hallett, Michael Henry: See—
Flinders, Michael; Gardner, Peter Lycett; Hallett, Michael Henry; Jones, John W.; Minshall, John Francis; and Taylor, Keith Graham, 3,646,516.
- Hallewell, Bernard Frederick, to Toolmasters Limited. Form copying method and apparatus. 3,683,560, 8-15-72, Cl. 51-100.00r.
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- Hallford, Ben R., to Collins Radio Company. Microwave balanced mixer circuit. 3,659,206, 4-25-72, Cl. 325-446.000.
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- Hallford, Ben R., to Collins Radio Company. Microstrip diode high isolation switch. 3,678,414, 7-18-72, Cl. 333-7.000.
- Hallford, Ben R., to Collins Radio Company. RF rejection filter. 3,678,433, 7-18-72, Cl. 333-73.00s.
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Carlsson, Per Arvid Emil; Corrodi, Hans Rudolf; Hallhagen, Sven Goran; and Junggren, Ulf Krister, 3,655,737.
- Halliburton Company: See—
Anderson, Merlin F.; and Perkins, Lee E., 3,702,634.
Boyd, Charles L.; and Roach, James D., 3,680,379.
Briggs, George E., Jr., 3,688,849.
Chaney, Preston E.; and Anderson, Terry O., 3,659,259.
Cole, Clinton W., 3,650,638.
Cole, Clinton W., 3,662,652.
Cole, Robert C., 3,649,574.
Gardner, Tommy R.; Lasater, Reginald M.; and Knox, John A., 3,639,279.
Gardner, Tommy R., 3,706,669.
Guest, Robert J., 3,691,819.
Hammond, Jack; and Boyd, Charles L., 3,660,644.
Harris, Allen E., 3,666,010.
Hulme, Jack R., 3,695,094.
Hyde, Walter E., 3,693,408.
Knox, John A.; Keeney, Bill R.; and Lasater, Reginald M., 3,669,613.
Lorenzino, Paul; and Love, Robert G., 3,691,841.
Malone, William T., 3,687,203.
Manes, Dewey K.; Farley, David L.; and Wray, Gary Q., 3,646,995.
Mason, John F.; Frazier, Bruce J.; and Freeman, Norman L., 3,680,188.
Moore, Paul A.; and Boyles, Homer T., 3,638,681.
Paramore, Edwin L.; O'Loughlin, Bernard T.; and Brown, Thomas L., 3,672,173.
Pittman, Forrest C., 3,695,301.
Rensvold, Roger F., 3,705,782.
Seay, Orum E.; and Shelton, Robert O., 3,647,088.
Wray, Gary Q.; and Petty, George E., 3,664,415.
Zimmerman, Carl W., 3,657,532.
Zimmerman, Carl W.; and Copland, George V., 3,699,320.
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Blake, Anthony; Halliday, Denis Malcolm; and Woods, Michael Faulkner, 3,671,268.
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- Hallier, Bernard Lucien Desire: See—
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- Hallin, Peter R., to Croft Metals, Inc. Adjustable aligning apparatus for movable panels. 3,696,560, 10-10-72, Cl. 49-425.000.
- Halling, Roy Walker Lee; and Kriisa, Paul, to Export Tool & Welding Co., Limited. Metal spinning machine. 3,672,317, 6-27-72, Cl. 113-1.00e.
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Niman, George J., 3,686,574.
- Hallis, Thomas, Jr.: See—
Dorsey, William Smith; Hallis, Thomas, Jr.; and Pullen, Edward A., 3,659,772.
Gonta, Stewart J.; Hallis, Thomas, Jr.; and Johnson, Lawrence S., 3,660,336.
Gonta, Stewart J.; and Hallis, Thomas, Jr., 3,692,564.
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Chapman, Charles Walter; and Matthews, Eric, 3,649,416.
Valente, Peter Reginald, 3,663,076.
- Hallman, John Ray, Jr. Digital tone generator system for electronic organ employing a single master oscillator. 3,702,370, 11-7-72, Cl. 84-1.010.
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- Hallman, Newt M., to Universal Oil Products Company. Fractionator reboiling by utilizing convection heat. 3,682,780, 8-8-72, Cl. 203-22.000.
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- Hallman, Robert W.: See—
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- Hallman, Robert W.; and Kurtz, Gary W., to Teeg Research, Inc. Method for making a pattern on a support member by means of actinic radiation sensitive element. 3,637,377, 1-25-72, Cl. 96-35.

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- Hallmann, Hermann, to MRT Magnet-Regeltechnik GmbH. Magnetically operable blocking and control device. 3,681,727, 8-1-72, Cl. 335-253.000.
- Hallmark, Bobby Joe, to Gearhart-Owen Industries, Inc. Sidewall well-formation fluid sampler. 3,677,080, 7-18-72, Cl. 73-155.000.
- Hallmark Cards, Incorporated: See—
Kolster, Edward J.; and Ira, George O., 3,683,484.
Renoe, Ronald R., 3,702,495.
Spaw, Eugene S.; McGrath, Paul F.; and Otto, Stanley W., 3,669,014.
Wood, Gerald L.; Kolster, Harvey L.; and Zeller, James E., 3,667,826.
- Hallock, David D.: See—
Halsted, Abel S.; and Hallock, David D., 3,670,261.
- Hallock, David D.; and Halsted, Abel S., to Hughes Aircraft Company. Gas laser with discharge and gas return paths through a common cylindrical body. 3,670,262, 6-13-72, Cl. 331-94.500.
- Hallopoff, William E.: See—
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- Halloran, William X. Injection apparatus. 3,662,754, 5-16-72, Cl. 128-221.
- Halloran, William X. Orthopedic drill guide apparatus. 3,704,707, 12-5-72, Cl. 128-92.0eb.
- Halls, Kenneth F.; and Brickley, Alfred H., to Space Tool, Inc. Adjustable jaw wrench. 3,640,159, 2-8-72, Cl. 81-165.
- Hallstedt, Carl Goran Albin: See—
Arsenius, Torsten Henry; and Hallstedt, Carl Goran Albin, 3,675,977.
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Arsenius, Torsten Henry; Gustafsson, Anders Christer; and Hallstedt, Karl Goran Albin, 3,672,733.
- Hallstein, Edward: See—
Kurtz, Leonard; Bidwell, Robert; Mishkin, Sidney; and Hallstein, Edward, 3,683,913.
- Hallstrom, Ingemar Gustaf Terje; Jarleborg, Martin Holger; and Tarnblom, Stig-Goran Harry, to Fagersta Bruks AB. High-strength low alloy ferritic steel small-gauge wire. 3,674,570, 7-4-72, Cl. 148-12.000.
- Hallstrom, Olof Henrik. Cargo-conveying cartridge for pneumatic cylindrical tube conveying system. 3,634,861, 1-11-72, Cl. 243-32.
- Hallum, Charles E.: See—
Fix, John W.; Hallum, Charles E.; and Kaufman, Warren F., 3,704,832.
- Hally Stamping & Manufacturing Company: See—
McFarlane, William F., 3,645,572.
- Halm, Frank J., III, to Kaman Aerospace Corporation. Assembly for use with conveyor system for separating and diverting objects. 3,693,778, 9-26-72, Cl. 198-29.000.
- Halm, Gunther: See—
Martini, Karl; Forster, Peter; Bierbaum, Dieter; and Halm, Gunther, 3,664,472.
- Halm Instrument Co., Inc.: See—
Lyon, Floyd A., 3,665,845.
- Halm, Richard. Magnetic igniter. 3,696,271, 10-3-72, Cl. 317-81.000.
- Halma, Laszlo: See—
Erne, Hansjorg; and Halma, Laszlo, 3,685,692.
- Halmai, Attila; and Halmai, Geza, to Nikex Nehezpari Kulkereskedelmi Vallalat. Traction unit for electric model railways. 3,646,892, 3-7-72, Cl. 104-148.
- Halmai, Geza: See—
Halmai, Attila; and Halmai, Geza, 3,646,892.
- Halmbrecht, William L.: See—
Welker, Robert H.; and Halmbrecht, William L., 3,673,737.
- Halmi, Dezso, to General Signal Corporation. Flow metering devices of the pressure differential producing type. 3,686,946, 8-29-72, Cl. 73-213.000.
- Halo Lighting Division; a division of McGraw-Edison Company: See—
Fremont, Robert S., 3,649,741.
- Halocarbon Products Corporation: See—
Dittman, Albert L., 3,668,262.
- Halonon, Eero. Reflector for electric lamps. 3,657,530, 4-18-72, Cl. 240-104.
- Halophane Company, Inc.: See—
Franck, Kurt, 3,679,889.
Quack, Wilbert, 3,679,891.
- Halopoff, William; and Baker, Larry W., to Holmes Hardware & Sales Co. Center lock inside handle keeper. 3,683,652, 8-15-72, Cl. 70-146.000.
- Halopoff, William E.; and Wilson, Robert M., said Wilson assor. to said Halopoff, William E. Method of and means for processing mail. 3,637,076, 1-25-72, Cl. 209-124.
- Halpaap, Herbert: See—
Kramer, Josef; Halpaap, Herbert; and Freisberg, Karl-Otto, 3,637,718.
Kramer, Josef; Irmischer, Klaus; Voge, Hans-Otto; and Halpaap, Herbert, 3,689,663.
Rossler, Hubert; Halpaap, Herbert; and Klatyk, Knut, 3,701,678.
- Halperin, Arnold: See—
Di Milia, Vincent; Halperin, Arnold; and Koblenz, Morris A., 3,689,747.
- Halpern, Alfred, to Synergistics, Inc. Polyvinylpyrrolidone-iodine compounds. 3,671,545, 6-20-72, Cl. 260-326.5f.
- Halpern, Alfred, to Synergistics, Inc. Solid iodophor cleansing compositions. 3,687,855, 8-29-72, Cl. 252-106.000.
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- Halpern, Benjamin D., to Borden, Inc. Adhesive for living tissue. 3,667,472, 6-6-72, Cl. 128-334.00r.
- Halpern, Berthold, to Syntex Corporation. Tetrahydrobenzimidazoles. 3,637,730, 1-25-72, Cl. 260-309.
- Halpern, Samuel Walter, to Bell Telephone Laboratories, Incorporated. Three-channel FM stereo transmission. 3,679,832, 7-25-72, Cl. 179-15.0bt.
- Halpern, William. Adjustable chamfering tool. 3,635,573, 1-18-72, Cl. 408-186.
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- Halsall, Vincent Michael; and Cosme, Peter Anthony, to Globe-Union Inc. Method for fabricating battery cases. 3,673,302, 6-27-72, Cl. 264-328.000.
- Halstead, Harold A.: See—
Halstead, Robert E.; and Halstead, Harold A., 3,666,313.
- Halstead Industries, Inc.: See—
Nussbaum, Otto J., 3,637,005.
- Halstead, Robert E.; and Halstead, Harold A. Partition for automobiles. 3,666,313, 5-30-72, Cl. 296-24.00r.
- Halstead, William M. Electrical component desoldering and extracting tool. 3,632,036, 1-4-72, Cl. 228-54.
- Halstead, William M. Tip for opening eyelet holes in printed circuit boards. 3,632,972, 1-4-72, Cl. 219-229.
- Halstead, William M. Handling and heat dissipating device for electrical components. 3,640,519, 2-8-72, Cl. 209-254.
- Halstead, William M. Method and device for straightening and aligning leads of a module insertable in a circuit board. 3,688,393, 9-5-72, Cl. 29-626.000.
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- Halsted, Abel S.: See—
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- Halsted, Abel S.; and Hallock, David D., to Hughes Aircraft Company. Anode design for gas discharge lasers. 3,670,261, 6-13-72, Cl. 331-94.500.
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- Halter, Dale F. Bow string drawing and release device. 3,656,467, 4-18-72, Cl. 124-35.
- Halter, Paul. Squirting gun and dosing device therefor. 3,682,175, 8-8-72, Cl. 128-223.000.
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- Haluska, Loren A., to Dow Corning Corporation. Method of making rigid polyurethane foams. 3,663,468, 5-16-72, Cl. 260-2.5am.
- Halverson, Frederick: See—

Stamm, Robert Franz; Brinen, Jacob Solomon; Tennant, Evalyn Hosterman; and Halverson, Frederick, 3,635,544.
 Halverson, Henry J.: See—
 Andrew, Eugene A.; and Halverson, Henry J., 3,679,782.
 Halverson, Phillip C.: See—
 Sherer, Paul; and Halverson, Phillip C., 3,685,047.
 Halverson, Steven L.: See—
 Moses, Harry; Eggenberger, Delbert N.; Halverson, Steven L.; and Managan, William W., 3,702,565.
 Halvorsen, Ivar N.; and Marshall, George E., to Xerox Corporation. Removable platen cover. 3,642,376, 2-15-72, Cl. 355-128.
 Halvorsen, Jacob Schoning, to Rapp Fabrikker A/S. Method and apparatus for hauling underwater ropes and the like. 3,687,418, 8-29-72, Cl. 254-175.700.
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 Ham, George E.: See—
 Dexter, Martin; Steinberg, David H.; and Ham, George E., 3,657,309.
 Gammill, Benny B.; Ladewig, Glen R.; and Ham, George E., 3,634,341.
 Ham, Rowland Herbert. Load carrying vehicles. 3,643,907, 2-22-72, Cl. 248-439.
 Hamabe, Takeshi; and Suzuki, Takashi, to Matsushita Electric Industrial Co., Ltd. Continuous anodic oxidation method for aluminum and alloys thereof. 3,692,640, 9-19-72, Cl. 204-28.000.
 Hamac-Hansella GmbH: See—
 Beckers, Hans, 3,654,746.
 Beckers, Hans, 3,688,939.
 Hamacheck, Frank B., III, to Hamacheck, Frank, Machine Company. Open mesh belt cleaner. 3,631,980, 1-4-72, Cl. 209-384.
 Hamacheck, Frank, Machine Company: See—
 Hamacheck, Frank B., III, 3,631,980.
 Hamacher, Paul Friedrich, to Moeller & Neumann G.m.b.H. Edge trimming shears for rolled metal sheets with cross-knives for severing the edge strips. 3,667,335, 6-6-72, Cl. 83-513.
 Hamachi, Naotoshi: See—
 Takaichi, Moriuyuki; Hamachi, Naotoshi; Iwatuka, Gakuo; and Nakahara, Yoshiteru, 3,645,386.
 Hamada, Masa: See—
 Umezawa, Hamao; Hamada, Masa; Naganawa, Hiroshi; Takeuchi, Tomio; Maeda, Kenji; and Okami, Yoshiro, 3,639,582.
 Hamada, Mitsuo: See—
 Sato, Katsumi; Nakamura, Takashi; Nakamura, Masaru; Hirasawa, Kazuo; Hamada, Mitsuo; Takahashi, Kenji; Yashima, Masaaki; Ozaki, Toshiaki; Yamamoto, Sigeo; Ooishi, Tadashi; Fujinami, Akira; Horiuchi, Fukashi; and Nodera, Katsuji, 3,703,526.
 Hamada, Motoharu; and Nakagawa, Hiroshi, to Kawasaki Steel Corporation. Method of coating steel sheet surfaces. 3,691,055, 9-12-72, Cl. 204-385.000.
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 Hamada, Takashi: See—
 Inose, Hiroshi; Fujisaki, Hiroya; and Hamada, Takashi, 3,660,812.
 Hamada, Teruma, to Amada Co., Limited. Jig apparatus for a bending press. 3,696,658, 10-10-72, Cl. 72-481.000.
 Hamada, Tetsuo: See—
 Aishima, Itsuho; Sakurai, Hisaya; Takashi, Yukichi; Morita, Hideo; Hirotsu, Yoshiyuki; and Hamada, Tetsuo, 3,661,878.
 Hamada, Yoshio; and Yoshino, Motohisa, to Takeda Chemical Industries, Ltd. Nutrient ration for increasing growth of livestock and poultry. 3,686,392, 8-22-72, Cl. 424-16.000.
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 Hamaguchi, Kazuo: See—
 Takemura, Yasuo; and Hamaguchi, Kazuo, 3,636,247.
 Hamaguchi, Kunimasa: See—
 Yamada, Eiji; Hamaguchi, Kunimasa; and Akamatsu, Takashi, 3,636,008.
 Hamai Denkyo Kogyo Kabushiki Kaisha: See—
 Hamai, Jituo, 3,698,785.
 Jituo, Hamai, 3,698,784.
 Hamai, Jituo, to Hamai Denkyo Kogyo Kabushiki Kaisha. Manufacturing method for small electric lamps. 3,698,785, 10-17-72, Cl. 316-19.000.
 Hamaker, Ralph A.; and Zucker, Edwin, to Xerox Corporation. Optical projection apparatus. 3,697,167, 10-10-72, Cl. 355-8.000.
 Hamamatsu TV Company, Limited: See—
 Suzuki, Yoshiji; Hayashi, Ikuo; Karasawa, Kazuo; and Shimada, Mitsuhiro, 3,700,953.
 Hamamoto, Hiroshi: See—
 Kimura, Takashi; Majima, Azusa; Hamamoto, Hiroshi; and Awano, Yoji, 3,674,472.

Umehara, Hanji; Kimura, Takashi; and Hamamoto, Hiroshi, 3,706,550.
 Hamamoto, Kazuo; Matsuoka, Michio; and Masuyama, Takeshi, to Matsushita Electric Industrial Co., Ltd. Voltage variable resistors. 3,670,221, 6-13-72, Cl. 317-238.
 Hamamoto, Masao; Kamo, Seiichi; and Nakayama, Kiyoshi, to Mitsubishi Chemical Industries Limited. Process for producing slow-acting potassium phosphate fertilizers. 3,698,885, 10-17-72, Cl. 71-1.000.
 Haman Factors Research Incorporated: See—
 O'Hanlon, James F., Jr.; and Sanderson, Glenn A., 3,699,949.
 Hamanaka, Seiichi: See—
 Butler, Kenneth; and Hamanaka, Seiichi, 3,681,342.
 Hamanaka, Yasushi; Tajiri, Hiromi; Etoh, Kuniomi; Furukawa, Kaoru; and Masai, Yukito, to Toyo Boseki Kabushiki Kaisha. Method for attaching additive to polyamide pellets. 3,640,761, 2-8-72, Cl. 117-100.
 Hamann, Donald D.: See—
 Goodman, Hubert Coleman, Jr.; and Hamann, Donald D., 3,653,509.
 Hamann, Donald D., to Research Corporation. Method and apparatus for separating objects having different resiliencies. 3,680,694, 8-1-72, Cl. 209-119.000.
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 Hamano, Yoshihiko: See—
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 Hamard, Jacques: See—
 Fulham, Michael J.; Jones, Richard; Webb, Michael; and Hamard, Jacques, 3,642,934.
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 Jacoby, Frederick J.; Hamb, Frederick L.; and Trent, Lewis C., 3,658,541.
 Hamb, Fredrick Lynn, to Eastman Kodak Company. Film-forming polyester compositions. 3,634,089, 1-11-72, Cl. 96-87.
 Hambleton, Kenneth G., to National Research Development Corporation. Method of bonding silicon to copper. 3,651,562, 3-28-72, Cl. 29-473.1.
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 Hamblin, Robert J. J., to Universal Oil Products Company. Simultaneous production of gasoline and LPG. 3,697,413, 10-10-72, Cl. 208-59.000.
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 Hambrick, John Earl. Stand for Christmas tree. 3,697,026, 10-10-72, Cl. 248-46.000.
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 Hamburg, Jacob J. Tube coupling. 3,633,944, 1-11-72, Cl. 285-81.
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 Kuhle, Engelbert; Klauke, Erich; Hamburger, Brigitte; and Steinfatt, Fritz, 3,636,076.
 Hamburger Flugzeugbau GmbH: See—
 Fricke, Wilhelm; and Hoose, Werner, 3,633,847.
 Hahn, Hans-Jurgen Wilhelm, 3,647,515.
 Konecny, Jan; Haas, Jan T.; and Groenewald, Hans E., 3,674,224.
 Studer, Hans-Luzius; Petri, Eckart; Wurmstedt, Karl; and Haas, Jan Tomas, 3,704,828.
 Hamburger, Peter R. Lamp structures. 3,689,763, 9-5-72, Cl. 240-88.000.

Hamby, Clayton B.; Barrett, Charles W.; and Derfer, John M., to SCM Corporation. Process for removing sulfur from crude sulfate turpentine or distillate fraction thereof. 3,660,512, 5-2-72, Cl. 260-675.500.
 Hamby, Robert L., 50% to Wolfe, Richard A. Adjustable vehicle mirror. 3,644,021, 2-22-72, Cl. 350-304.
 Hamby, Tyler W., Jr.; and Strickland, William T., Jr., to Shell Oil Company. Epoxy resin sand consolidation rejuvenation. 3,646,999, 3-7-72, Cl. 166-281.
 Hamco Machines & Electronics Corpoted: See—
 Bender, David L., 3,691,697.
 Hameister, Harold L.; and Baszczuk, Andrew R., to Remington Arms Company, Inc. Profile shaping machine for firearm recoil pads and butt plates. 3,674,451, 7-4-72, Cl. 51-127.000.
 Hameister, Harold L.; and Reitter, Erwin, Jr., to Remington Arms Company, Inc. Compression molding of wooden articles. 3,681,181, 8-1-72, Cl. 161-41.000.
 Hamel, David O., to ESB Incorporated. Dry cell battery. 3,655,456, 4-11-72, Cl. 136-181.
 Hamel, Edward E.: See—
 Weyland, Herman H.; and Hamel, Edward E., 3,649,687.
 Hamel GmbH Zwirnerei- und Spinnereimaschinen: See—
 Lohring, Theo; Greive, Aloys; Eckholt, Heinrich; and Tiemann, Theodor, 3,645,083.
 Hamel G.m.b.H., Zwirnmashinen: See—
 Eckholt, Heinrich, 3,640,144.
 Hamel, Jon J.: See—
 Johnson, Wesley R.; and Hamel, Jon J., 3,643,243.
 Hamer, Allan Norman: See—
 Swinhoe, Ronald; and Hamer, Allan Norman, 3,693,959.
 Hamer, Edward A. G.: See—
 Shaines, Alfred; Kalish, Robert L.; and Hamer, Edward A. G., 3,695,964.
 Hamer, Emile Paul Eliza. Pot, pan or similar vessel for domestic use with a handgrip, and a method for making such a vessel. 3,661,296, 5-9-72, Cl. 220-94.
 Hamer, Glen P.: See—
 Voorhies, Alexis, Jr.; and Hamer, Glen P., 3,654,130.
 Hamer, William J.; and Goshen, Randal W. Aircraft electronic apparatus with supporting rack. 3,704,395, 11-28-72, Cl. 317-120.000.
 Hamerl, Arthur John. Coupling assembly. 3,679,243, 7-25-72, Cl. 287-21.000.
 Hamermesh, Bernard: See—
 Hansen, David O.; Altshuler, Saul; Bernstein, William; and Hamermesh, Bernard, 3,679,897.
 Hamermesh, Charles L.: See—
 Gunderloy, Frank C., Jr.; Hamermesh, Charles L.; and Wagner, Ross I., 3,690,971.
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 Hamersma, Joseph Warren, to Atlantic Richfield Company. Vinyl fluoride from 1-fluoro-2-chloroethane by pyrolysis in the presence of ethylene. 3,642,917, 2-15-72, Cl. 260-653.5.
 Hamill Arthur L., to Techo-Components Corporation. Potentiometers. 3,683,308, 8-8-72, Cl. 338-162.000.
 Hamill, Ralph: See—
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 Hamill, Robert L.; and Hoehn, Marvin M., to Lilly, Eli, and Company. Antibiotics A204I and A204II and method for production thereof. 3,705,238, 12-5-72, Cl. 424-121.000.
 Hamill, Thomas M. Wet milling extraction process and apparatus therefor. 3,695,931, 10-3-72, Cl. 127-4.000.
 Hamilton, Alexander, to Ciba-Geigy AG. Unsymmetrical disazo pigments derived from dichlorobenzidine and acetylarylamides. 3,655,641, 4-11-72, Cl. 260-176.
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 Hamilton, Brett B.: See—
 Goodkind, Karen B.; Hamilton, Brett B.; Larson, Ake L.; and Whittington, Jimmie L., 3,667,136.
 Hamilton, Charles Eugene: See—
 Teal, James L.; Hamilton, Charles Eugene; and Clifford, Dennis A., 3,679,364.
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 Reid, John D.; and Seibel, Arthur C., 3,648,968.
 Reid, John D., 3,664,374.
 Ried, John D., 3,672,226.
 Hamilton Cosco, Inc.: See—
 Bowers, Russell L.; and Napier, Larry E., 3,649,491.
 Hamilton, David C., to Ramsey Controls, Inc. Buffer amplifier and voltage regulating circuit. 3,679,961, 7-25-72, Cl. 323-8.000.
 Hamilton, David G., Jr. Angularly adjustable square holder. 3,670,418, 6-20-72, Cl. 33-75.00r.
 Hamilton, David H. Multi-purpose household garden and yard hand tool. 3,688,483, 9-5-72, Cl. 56-400.110.
 Hamilton Digital Controls, Inc.: See—
 Zaccaroli, Edward C., 3,700,828.
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 Hamilton, Douglas D., 1/3 to Canadian International Paper Company, Canada Quebec North Shore Paper Company and Ste. Anne Paper Company Limited. Feller buncher including double bunk trailer. 3,658,104, 4-25-72, Cl. 144-309.0ac.
 Hamilton, Douglas L. P. Automobile bumper. 3,677,595, 7-18-72, Cl. 293-73.000.
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 Slater, Thomas C.; and Hamilton, Floyd C., Jr., 3,682,669.
 Hamilton, Harry A.: See—
 Carr, Norman L.; Hamilton, Harry A.; and Schagrin, Edward F., 3,684,687.
 Hamilton, J. Brook: See—
 Martin, Charles H., 3,680,277.
 Hamilton, James P.: See—
 Lynch, Charles Andrew, Jr.; and Hamilton, James P., 3,639,280.
 Hamilton, James P., to FMC Corporation. Thermally stable air filter gels. 3,672,924, 6-27-72, Cl. 106-287.000.
 Hamilton, Joel A.: See—
 Psota, Joseph M.; Hamilton, Joel A.; and Di Donato, Russell D., 3,661,484.
 Hamilton, John B.: See—
 Hack, Albert G. W.; and Hamilton, John B., 3,701,651.
 Hamilton, John E.: See—
 McKie, Eugene T.; and Hamilton, John E., 3,681,484.
 Hamilton, John F.; and Pederson, Donald J., to Hercules Incorporated. Maintenance of slurry explosive pumping assembly for successive loadings. 3,640,585, 2-8-72, Cl. 302-17.
 Hamilton Kent Manufacturing Co.: See—
 Grimes, Kenneth, 3,647,229.
 Hamilton, Lewis R., to Procter & Gamble Company, The. Optical brightener compounds and detergent and bleach compositions containing same. 3,646,015, 2-29-72, Cl. 260-240.
 Hamilton, Martin W.: See—
 Jones, William H.; and Hamilton, Martin W., 3,655,002.
 Hamilton, Martin W.; and Jones, William H., to Eaton Corporation. Manual digital scale. 3,693,083, 9-19-72, Cl. 324-98.000.
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 Smith, Stanley D.; and Hamilton, Stephen B., Jr., 3,689,454.
 Hamilton, Stoddard C., III, to General Motors Corporation. Lock-up device for coupling or converter. 3,684,064, 8-15-72, Cl. 192-3.310.
 Hamilton, Stoddard C., III. Lock-up device for fluid unit. 3,696,896, 10-10-72, Cl. 192-3.280.
 Hamilton, Thomas N.: See—
 Mee, Jack E.; Heinz, David M.; Hamilton, Thomas N.; Besser, Paul J.; and Pulliam, George R., 3,645,787.
 Mee, Jack E.; Heinz, David M.; Hamilton, Thomas N.; Besser, Paul J.; and Pulliam, George R., 3,645,788.
 Hamilton, Thomas R., to Caterpillar Tractor Company. Bowl lift jack mounting for earthmoving scraper. 3,657,830, 4-25-72, Cl. 37-129.000.

- Hamilton Tool Company, The: *See*—
Huffman, Harold W., 3,651,724.
- Hamilton Watch Company: *See*—
Bergey, John M.; and Walton, Richard S., 3,672,155.
Bergey, John M.; Le Van, James O.; Walton, Richard S.; and Brethauer, Louis G., 3,676,993.
Bergey, John M.; Blouch, Eric L.; and Walton, Richard S., 3,701,249.
Cliff, Steven K., 3,651,340.
Dargent, Bruno, 3,657,568.
Martin, Vincent W.; and Steiner, Bruce G., 3,657,571.
Reese, James H., 3,641,761.
Walton, Richard S., 3,664,118.
Walton, Richard S., 3,707,071.
- Hamilton, William. Container sealing roof structure. 3,651,648, 3-28-72, Cl. 61-5.
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Naber, Richard E.; and Hamilton, William D., 3,659,447.
- Hamilton, William H.; and Winsor, Jack O., to Lawrence Manufacturing Company. Roll attitude correcting means for tunneling machines. 3,703,314, 11-21-72, Cl. 299-31.000.
- Hamilton, William R., Jr., to Portec, Inc. Insulated rail joints. 3,698,634, 10-17-72, Cl. 238-152.000.
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- Hamley, David H.; and Hylan, Lyle L., to Westinghouse Air Brake Company. Power operated railway switch machine control circuit. 3,696,244, 10-3-72, Cl. 246-242.000.
- Hamlin, David R.; and Torpey, William A., to Eastman Kodak Company. Web turning and guiding apparatus. 3,679,116, 7-25-72, Cl. 226-197.000.
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Volk, Henry; and Hamlin, Percy J., 3,658,772.
- Hamlin, Percy Jay: *See*—
Volk, Henry; and Hamlin, Percy Jay, 3,657,378.
Volk, Henry; and Hamlin, Percy Jay, 3,658,771.
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- Hamm, Jeffrey E.; and Watkins, Harley E. Method of and device for smoke detection and circuits therefor. 3,657,737, 4-18-72, Cl. 340-237.
- Hamm, John R., to Borg-Warner Corporation. Valve. 3,654,950, 4-11-72, Cl. 137-219.
- Hamm, Philip C., to Monsanto Company. Chemosterilant compositions for flies and method of use. 3,671,635, 6-20-72, Cl. 424-319.000.
- Hamm, Philip C.; and Speziale, Angelo John, to Monsanto Company. Herbicidal composition and method. 3,690,864, 9-12-72, Cl. 71-118.000.
- Hamma, John: *See*—
Rapoza, Edward J.; Siegel, Maxwell E.; Estelle, Weems E.; Petrucci, Pasquale M.; Linarducci, Joseph S.; Hamma, John; and Montgomery, John, 3,706,499.
- Hamma, John C., to Interscience Corporation. Infusion monitoring device. 3,656,138, 4-11-72, Cl. 340-266.
- Hammack, Calvin M. Method and apparatus for geometrical determination. 3,691,560, 9-12-72, Cl. 343-113.00r.
- Hammack, Calvin Miles. Polystation doppler system tracking of vehicles, measuring displacement and rate thereof and similar applications. 3,706,096, 12-12-72, Cl. 343-9.000.
- Hamman, Denver C., to Illinois Tool Works Inc. Molding clip. 3,703,747, 11-28-72, Cl. 24-73.0hs.
- Hamman, John T.: *See*—
Buzby, Robert Y.; Hamman, John T.; Hudak, Ronald A.; and Osvold, Harry C., 3,632,146.
- Hammann, Ingeborg: *See*—
Buchel, Karl Heinz; Hammann, Ingeborg; Unterstenhofer, Gunter; and Grewe, Ferdinand, 3,660,462.
Buchel, Karl Heinz; Draber, Wilfried; and Hammann, Ingeborg, 3,689,664.
Buchel, Karl-Heinz; Draber, Wilfried; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,641,098.
Draber, Wilfried; Buchel, Karl Heinz; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,636,112.
Fest, Christa; Hammann, Ingeborg; and Behrenz, Wolfgang, 3,700,686.
Hofer, Wolfgang; Schrader, Gerhard; and Hammann, Ingeborg, 3,660,540.
Hoffman, Hellmut; Hammann, Ingeborg; and Behrenz, Wolfgang, 3,687,963.
Hoffmann, Hellmut; and Hammann, Ingeborg, 3,682,943.
Hoffmann, Hellmut; Hammann, Ingeborg; and Homeyer, Bernhard, 3,700,687.
Hoffmann, Hellmut; and Hammann, Ingeborg, 3,706,820.
Kiehne, Hartmut; Petersen, Siegfried; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,658,839.
- Lorenz, Walter; Unterstenhofer, Gunter; and Hammann, Ingeborg, 3,646,171.
- Lorenz, Walter; Fest, Christa; Hammann, Ingeborg; Federmann, Manfred; Flucke, Winfried; and Stendel, Wilhelm, 3,689,648.
- Schlot, Hanselmut; Hammann, Ingeborg; and Homeyer, Bernhard, 3,641,223.
- Schmidt, Karl-Julius; and Hammann, Ingeborg, 3,657,234.
- Schmidt, Karl-Julius; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,681,334.
- Schmidt, Karl-Julius; and Hammann, Ingeborg, 3,697,518.
- Schrader, Gerhard; Hammann, Ingeborg; and Stendel, Wilhelm, 3,641,221.
- Schrader, Gerhard; Hammann, Ingeborg; Stendel, Wilhelm; Unterstenhofer, Gunter; and Homeyer, Bernhard, 3,652,740.
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- Schrader, Gerhard; Lorenz, Walter; Unterstenhofer, Gunter; and Hammann, Ingeborg, 3,689,604.
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- Stolzer, Claus; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,691,277.
- Stolzer, Claus; Hammann, Ingeborg; and Unterstengofer, Gunther, 3,705,927.
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- Zumach, Gerhard; Hammann, Ingeborg; Unterstenhofer, Gunter; and Wegler, Richard, 3,683,031.
- Hammann, William C.: *See*—
Carlson, Emil H.; Hammann, William C.; and Schisla, Robert M., 3,666,827.
- Hammann, William C.; and Hobbs, Charles F., to Monsanto Company. Process for the preparation of di-tertiary-aromatic hydrocarbons. 3,657,370, 4-18-72, Cl. 260-671.
- Hammarplast AB: *See*—
Holm, Karl Arne, 3,685,830.
- Hammarstrom, Karl Enar: *See*—
Benson, Bengt Anders; and Hammarstrom, Karl Enar, 3,648,910.
- Hammel, Clifford M.: *See*—
Bitto, Joseph R.; and Hammel, Clifford M., 3,644,812.
- Hammel, Dieter: *See*—
Krahl, Fritz; Hammel, Dieter; Heymer, Gero; and Hamisch, Heinz, 3,705,232.
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Greive, Aloys, 3,648,449.
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- Hammel, Larry F., to Diagraph-Bradley Industries, Inc. Stencil hand stamp with fluid-containing handle and retractable supports. 3,661,078, 5-9-72, Cl. 101-125.
- Hammelehle, Wilfried: *See*—
Gehring, Gerhard; and Hammelehle, Wilfried, 3,684,972.
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- Hammell, Kemper Martel, to AMP Incorporated. Alpha-numeric display. 3,675,242, 7-4-72, Cl. 340-381.000.
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- Hammelmann, Paul. Arrangement for treating upright surfaces. 3,705,565, 12-12-72, Cl. 114-222.000.
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Ciavattoni, Anthony; Hammen, William; and Heimur, Karl, 3,665,682.
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- Hammer, Clarence Frederick; and Sashihara, Thomas Fujio, to Du Pont de Nemours, E. I., and Company. Ethylene/sulfur dioxide copolymers and method of making. 3,657,202, 4-18-72, Cl. 260-79.3.
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- Hammer, Clarence Frederick, to Du Pont de Nemours, E. I., and Company. Polymers of ethylene, sulfur dioxide and ethylenic monomers. 3,684,778, 8-15-72, Cl. 260-79.30a.
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- Hammer, Gary G.: *See*—
Armen, Ardy; Hammer, Gary G.; and Hennes, John H., 3,651,033.
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- Hammer, Herman J.; Heald, Sherman T.; and Royce Frank A., to Republic Steel Corporation. Apparatus for high speed welding of stainless steel tube with high velocity gas. 3,689,725, 9-5-72, Cl. 219-8.500.
- Hammer, James R.: *See*—
Bean, Donald E.; Engh, James T.; Hammer, James R.; Schettl, Myron D.; Tashjian, Harry J.; Ullmer, Richard J.; and Kerr, John W., 3,642,197.
- Hammer, Joel B., to Westinghouse Electric Corporation. Arc heater apparatus and method for producing a diffuse arc discharge. 3,654,513, 4-4-72, Cl. 315-111.
- Hammer, Kurt F., to Purolator Products, Inc. Pressure indicator and surge control device. 3,646,906, 3-7-72, Cl. 116-70.
- Hammer, Kurt F.; and Meyer, Wilbur A., to Purolator, Inc. Pressure relief and indicator device. 3,651,827, 3-28-72, Cl. 137-469.
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Widowitz, Herbert; and Hammer, Manfred, 3,660,882.
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Engler, Otto; Hammer, Theodor; and Muler, Meinhard, 3,684,619.
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Zbornik, Vaclav, 3,681,994.
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Hanni, Eduard, 3,664,174.
Hanni, Eduard Alexander, 3,682,465.
- Hammerle, Martin, to Rheinmetall G.m.b.H. Card-board setting-up machine. 3,631,769, 1-4-72, Cl. 93-51.
- Hammerle, Martin, to Rheinmetall GmbH. Apparatus for removal from a pile of the lowermost cardboard blank. 3,661,278, 5-9-72, Cl. 214-8.5.
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Rohr, Edwin, 3,665,804.
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Campton, Joseph M.; and Hammerslag, Julius G., 3,681,993.
- Hammes, Paul A.: *See*—
Morse, Lewis D.; and Hammes, Paul A., 3,701,668.
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- Hammes, Wilhelm. Container construction. 3,664,544, 5-23-72, Cl. 220-60.
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Aaron, Marvin Robert; Hammett, Warren Gail; and Oberst, James Francis, 3,697,690.
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- Hammon, George L., to Chemetron Corporation. Gas pressure regulator. 3,665,956, 5-30-72, Cl. 137-505.110.
- Hammon, George L. Cylinder support. 3,689,016, 9-5-72, Cl. 248-309.000.
- Hammond, Arthur W.; and Miller, Marie E. Combination spoon and toothpick. 3,664,020, 5-23-72, Cl. 30-142.000.
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Lula, Remus A.; Aggen, George; and Hammond, Charles M., 3,658,514.
- Hammond Corporation: *See*—
Borrevik, Alexander J.; and Tennes, Charles J., 3,701,040.
Schrecongost, Ray B.; and Millet, David, 3,636,231.
- Hammond, Donald L.: *See*—
Cutler, Leonard S.; and Hammond, Donald L., 3,667,038.
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- Hammond, Francis H.: *See*—
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- Hammond, Gary L. Simplified supercharged internal combustion engine with emissions control. 3,672,172, 6-27-72, Cl. 60-282.000.
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- Hammond, James D.: *See*—
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Colwell, Lester V., 3,684,673.
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- Hammond, Michael J.; and Haynes, James W., to Sylvania Electric Products, Inc. Method of stabilizing rare earth oxide phosphor in dichromate sensitized coating slurry. 3,676,177, 7-11-72, Cl. 4-24-70.
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Nissen, Walter D.; and Hammond, Philip G., 3,679,094.
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- Hammond, Philip G., to Kimberly-Clark Corporation. Container loader for compressible product. 3,645,060, 2-29-72, Cl. 53-24.
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- Hammond, Ronald W., to Smith, A. O., Corporation. Flow control baffle for a bin unloader. 3,643,820, 2-22-72, Cl. 214-17.
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Fleischauer, Fred J.; and Hammond, Theodore, 3,696,912.
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Fleischauer, Fred J.; and Hammond, Theodore A., 3,650,375.
- Hammond, Walter Cecil, to Powell Manufacturing Company, Inc. Apparatus for topping stalk-type plants. 3,695,013, 10-3-72, Cl. 56-63.000.
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O'Leary, Walter E.; Thornton, Duane V.; Hammonds, James C.; and Dare, Roy R., 3,678,866.
- Hammoto, Kazuko: *See*—
Nida, Taro; Yumoto, Hiroshi; Tsuruoka, Takashi; Hammoto, Kazuko; Shomura, Takashi; and Ohashi, Takao, 3,678,159.
- Hamner, Glen P.: *See*—
Arey, William F.; Hamner, Glen P.; Mason, Ralph B.; and Rigney, James A., 3,684,691.
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Mason, Ralph B.; and Hamner, Glen P., 3,707,459.
- Hamner, Glen P., to Esso Research and Engineering Company. Hydroforming naphthalene. 3,640,818, 2-8-72, Cl. 208-65.
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- Hampel, Daniel, to RCA Corporation. Multi-function logic gate circuits. 3,678,292, 7-18-72, Cl. 307-207.000.
- Hampel, Gerald; and Gruss, Hansgeorg, to Optipatent AG. Device for filling casting moulds with hardenable casting resin. 3,640,663, 2-8-72, Cl. 425-233.
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- Hampel, Viktor E.; Lee, Joseph D., III; and Walter, Carl E., to United States of America, Atomic Energy Commission. Space reactor ground safety and control system. 3,700,554, 10-24-72, Cl. 176-86.00m.
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Kristek, Ladislav; Svizela, Antonin; and Hampel, Ivo, 3,633,744.
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 Grundy, Brian; and Hampson, Peter Samuel, 3,706,856.
- Hampton, Richard J.; Rolland, Jacques R.; and Gallo, Thomas, to Ogilvie Flour Mills Company, Limited, The. Readily dispersible dry gluten product, processes for making it, and uses thereof. 3,704,131, 11-28-72, Cl. 99-17,000.
- Hampton, Robert W., to Eastman Kodak Company. Reflex camera apparatus. 3,654,844, 4-11-72, Cl. 95-42.
- Hampton, Thomas L., to General Electric Company. Turbine engine having multistage compressor with interstage bleed air system. 3,632,223, 1-4-72, Cl. 415-144.
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 Hampe, Walter R.; Simon, Albert B.; Hampton, William H.; and Decker, William E., 3,692,127.
- Hamrick, Harold E., to Bell Telephone Laboratories, Incorporated. Equipment for controlling interoffice signaling during a glare condition. 3,637,946, 1-25-72, Cl. 179-18.
- Hamrick, James C.; and Ruddick, Howard G., to Vet Line Products, Inc. Line throwing gun. 3,669,087, 6-13-72, Cl. 124-11.
- Hamrick, James C., to Jet Line Products, Inc. Suction hose for vacuum cleaning system for use with hose plug-in and hose retracting outlets. 3,682,500, 8-8-72, Cl. 285-7,000.
- Hamrick, Joseph T. Antipersonnel mine distrust system. 3,685,453, 8-22-72, Cl. 102-90,000.
- Hamrick, Thomas T.: *See—*
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- Hamrin, Bjorn Staffan Artur, to Aktiebolaget Forenade Superfosfatfabriker. Pellets in the form of foamed bodies, and methods for the preparation thereof. 3,688,437, 9-5-72, Cl. 47-57,600.
- Hams, Kenneth A.: *See—*
 Sather, Eugene; Stocker, Lester H.; and Hams, Kenneth A., 3,652,078.
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- Hamstra, David C., to General Electric Company. Apparatus for protecting electrical devices. 3,693,047, 9-19-72, Cl. 317-13,00b.
- Hamuro, Keizo, to Sumitomo Chemical Company, Ltd. Insecticidal composition comprising a synergistic mixture of 5-benzyl-3-furylmethyl D trans-chrysanthemate and N(3,4,5,6-tetrahydrophthalimido)-methyl D-trans-chrysanthemate. 3,702,891, 11-14-72, Cl. 424-24,000.
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 Christian, Andrew J.; Spence, John H.; and Han Yang, Tung, 3,631,811.
- Hanada, Hiroshi; Kitajima, Nobuo; and Masaki, Tatsuo, to Cannon Kabushiki Kaisha. Germanium and silicon additives to dual-layer electrophotographic plates. 3,647,427, 3-7-72, Cl. 96-1.5.
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- Hanada, Hiroshi, to Canon Kabushiki Kaisha. CdS-chalcogen ternary compound mixture as photoconductive material in an electrophotographic member. 3,681,067, 8-1-72, Cl. 96-1,500.
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 Sawaka, Jiro; Misaki, Tetsuo; Okabe, Masao; Yasui, Hajime; Hanada, Kazunori; and Okazaki, Tadayasu, 3,652,400.
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- Hanada, Toshihide, to Pioneer Electronic Corporation. Hall motor including means for selectively varying the effective number of turns of the exciting windings. 3,651,368, 3-21-72, Cl. 318-254.
- Hanaeus, Karl Sune Ingemar: *See—*
 Rabe, Karl Lars Gunnar; and Hanaeus, Karl Sune Ingemar, 3,648,495.
- Hanafin, Paul M. Blood pressure cuff with calibrated holding means. 3,699,945, 10-24-72, Cl. 128-2,05c.
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 Morii, Eiji; Numasawa, Tadasuke; Iwata, Kouichi; Yamagata, Shoichi; Ishimori, Akira; and Hanai, Hiromi, 3,637,657.
- Hanak, Joseph John, to RCA Corporation. Magnetic head method. 3,634,933, 1-18-72, Cl. 29-603.
- Hanan, John. Air valve safety lock. 3,700,208, 10-24-72, Cl. 251-90,000.
- Hanaoka, Masafumi, to Nippon Electric Company, Limited. Plural photo-diode target array. 3,697,832, 10-10-72, Cl. 317-235,00r.
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 Seimiya, Ryubun; Ohmuro, Yuzo; Hanaoka, Sigeru; and Nakamura, Masaru, 3,653,890.
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- Hanas, Walter E., to Honeywell Inc. Apparatus and method for fine blanking of parts. 3,635,067, 1-18-72, Cl. 72-329.
- Hanau, Walter J.: *See—*
 Bradshaw, Carleton R.; Felsher, Hal-Curtis; and Hanau, Walter J., 3,632,390.
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 Iwama, Masakuni; Inoue, Isaburo; Fujiwara, Mitsuto; Hanazawa, Teruo; Kojima, Tamotsu; Yamamoto, Toshihiko; and Endo, Takaya, 3,684,514.
- Hanback, Francis J., to McDonnell Douglas Corporation. Tube cutter. 3,672,050, 6-27-72, Cl. 30-99,000.
- Hanberg, Sanford M.: *See—*
 Betlejewski, Frank W.; and Hanberg, Sanford M., 3,674,948.
- Hanbicki, Richard B., to Madatron Corporation. Pneumatically operated counting device. 3,703,629, 11-21-72, Cl. 235-98,000.
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- Hanby, Fredrick E., to Tasker Industries, Inc. Blocking oscillator with extended variable pulse. 3,681,711, 8-1-72, Cl. 331-112,000.
- Hance, Edwin A. Loudspeaker system having bass response range below system resonance. 3,690,405, 9-12-72, Cl. 181-31,00b.
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 Gilmer, Arnold H.; and Hance, Harold V., 3,706,991.
- Hance, Richard J.; Wiese, John R.; and Clauss, Harry G., Jr., to Leeds & Northrup Company. Immersion molten metal sampler. 3,646,816, 3-7-72, Cl. 73-425.4.
- Hance, Richard James, to Leeds & Northrup Company. Immersion temperature responsive device. 3,664,882, 5-23-72, Cl. 136-234.
- Hanchen, Siegfried. Clamping device for an axially moveable plunger shaft. 3,643,765, 2-22-72, Cl. 188-170.
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 Hutchings, Paul D., Sr., 3,677,093.
- Hanchett, George D., to RCA Corporation. Switching circuits. 3,671,778, 6-20-72, Cl. 307-252,00b.
- Hanchett, George D., to RCA Corporation. Alarm circuit. 3,680,068, 7-25-72, Cl. 340-213.
- Hanchett, George Draper, to RCA Corporation. Counter. 3,654,440, 4-4-72, Cl. 235-92.
- Hanchett, Lenand J., Jr.: *See—*
 Milford, Richard E.; and Hanchett, Lenand J., Jr., 3,638,238.
- Hanck, Ronald C.: *See—*
 De Weese, Duane G.; and Hanck, Ronald C., 3,676,148.
- Hancke, Peter J.; Judkovics, Monroe; and Urquhart, Robert J., to International Business Machines Corporation. FFT Processor with unique addressing. 3,673,399, 6-27-72, Cl. 235-156,000.
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 Schmunk, John D.; and Child, James L., 3,681,925.
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- Hancock, Charlie L., to Westinghouse Electric Corporation. Dishwasher door counterbalance arrangement. 3,704,550, 12-5-72, Cl. 49-386,000.
- Hancock, Frank R., Jr. Fog proof watch crystal. 3,657,876, 4-25-72, Cl. 58-91,000.
- Hancock Industries, Inc.: *See—*
 Hybarger, Kenneth C.; and Kirk, Joseph R., 3,648,541.
- Hancock, James L.; and Bliss, Joseph A., to General Motors Corporation. Dryer motor switch and actuator. 3,691,415, 9-12-72, Cl. 310-68,00e.
- Hancock, John B.; and Salbert, George R., to Advanced Digital Systems, Inc. Tape joining clip. 3,657,775, 4-25-72, Cl. 24-230.
- Hancock, Roger Harvey Yorke; and McCallum, James E., to National Research Development Corporation. Hydrostatic vehicle transmission. 3,641,765, 2-15-72, Cl. 60-53.
- Hancock, Ronald David: *See—*
 Allum, Keith George; Hancock, Ronald David; and Robinson, Peter John, 3,652,678.
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- Hand, Albert Michael, to Steadman Industries (Nassau) Limited, mesne. Freight container transfer system. 3,664,533, 5-23-72, Cl. 214-516.
- Hand, Alton E., to Zurn Industries, Inc. Means to prevent lubricant from being forced out of bearings and the like. 3,644,004, 2-22-72, Cl. 308-36.3.
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 Pews, Richard Garth; Hand, Clare R.; and Roberts, Carleton W., 3,641,160.

- Hand, Hi. Brassiere. 3,698,399, 10-17-72, Cl. 128-483,000.
- Hand, John James: *See—*
 Bullock, Milton Walker; and Hand, John James, 3,673,206.
- Spicer, Larry Dean; and Hand, John James, 3,673,205.
- Hand, John W.; Lockwood, Don L.; and Harris, Robert K., to Min-tech Corporation. Discharge mechanism for shaft kiln. 3,704,011, 11-28-72, Cl. 263-29,000.
- Hand, Louis, Incorporated: *See—*
 Firestein, Harry; and Tyas, Karl, 3,661,103.
- Firestein, Harry; and Tyas, Karl, 3,672,313.
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- Hand, Richard Dewey. Portable paint roller cleaning apparatus. 3,696,457, 10-10-72, Cl. 15-4,000.
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 Miyaki, Kiyoshi; and Kogure, Hiroshi, 3,669,085.
- Hande, Martin Jacob: *See—*
 Van Den Bos, Bernardus Gerhardus; Meltzer, Jacques; and Handele, Martin Jacob, 3,661,926.
- Hande, Martin Jacob; Kuipers, Johannes; and Wellinga, Kobus, to U.S. Philips Corporation. Methods of combating nematodes in the soil. 3,657,444, 4-18-72, Cl. 424-274.
- Handerhan, Joseph P.: *See—*
 Goodman, Ernest A.; and Handerhan, Joseph P., 3,699,488.
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 Poulton, Barrie Armstrong, 3,680,725.
- Handloff, Louis E.: *See—*
 Burton, Paul T.; Cole, Walter E.; Frassetto, Henry E., Jr.; Gibson, Robert G.; Greenberg, Allan; Handloff, Louis E.; and Radlinsky, Raymond, 3,673,575.
- Hands, Clifford H. G.: *See—*
 Porter, Kenneth E.; Ellis, Stephen R. M.; Ashton, Neil; and Hands, Clifford H. G., 3,687,818.
- Hands, Clifford Henry George: *See—*
 Maund, John Keith; and Hands, Clifford Henry George, 3,677,720.
- Hands, Edward, to Raytheon Company. Acoustic impedance matching system. 3,674,945, 7-4-72, Cl. 179-110,00a.
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 Landwehrkamp, Hans; Schreyer, Franz; and Handschuch, Karl, 3,685,267.
- Handschuh, Volkmar: *See—*
 Arlt, Dieter; and Handschuh, Volkmar, 3,641,094.
- Handte, Heinz: *See—*
 Sennewald, Kurt; Gehrmann, Klaus; Handte, Heinz; Hauser, Alfred; and Kohl, Georg, 3,657,332.
- Sennewald, Kurt; Erpenbach, Heinz; Handte, Heinz; and Lork, Winfried, 3,689,541.
- Sennewald, Kurt; Erpenbach, Heinz; Handte, Heinz; and Lork, Winfried, 3,692,829.
- Handtmann, A.: *See—*
 Muller, Johannes; and Gaudry, Edouard, 3,631,565.
- Handwerk, Joseph W.: *See—*
 De Freitas, C. Trench; and Handwerk, Joseph W., 3,668,285.
- Handwerker, Louis W., Jr.: *See—*
 Bierlein, John C.; De Hart, Arnold D.; and Handwerker, Louis W., Jr., 3,705,753.
- Handy, Everett L. Cable stripper. 3,703,035, 11-21-72, Cl. 30-90,900.
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- Handy, Richard L., to Iowa State University Research Foundation, Inc. Method and apparatus for in situ measurement of soil creep strength. 3,673,861, 7-4-72, Cl. 73-101,000.
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 Safrit, Sam C., 3,678,514.
- Hanes, James W. E.: *See—*
 Huntsinger, Fritz R.; and Hanes, James W. E., 3,638,732.
- Hanes, James W. E.; and Larralde, Edward, to Vetco Offshore Industries, Inc. Telescopic joint embodying a pressure actuated packing device. 3,647,245, 3-7-72, Cl. 285-106.
- Hanes, James W. E., to Vetco Offshore Industries, Inc. Selectively lockable casing hanger. 3,664,689, 5-23-72, Cl. 285-18.
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- Hanessian, Stephen: *See—*
 Fisher, Myron W.; and Hanessian, Stephen, 3,674,863.
- Haskell, Theodore H.; and Hanessian, Stephen, 3,651,045.
- Haneta, Yuichi: *See—*
 Nakanuma, Sho; Haneta, Yuichi; Fujimori, Keizo; and Wada, Toshio, 3,637,434.
- Haneta, Yuichi, to Nippon Electric Company, Limited. Field effect semiconductor device with memory function. 3,649,884, 3-14-72, Cl. 317-235.
- Hanewinkel, Lorenz. Visual information apparatus. 3,696,539, 10-10-72, Cl. 40-125,00r.
- Haney, Eugene E., to Armco Steel Corporation. Coated wire for use in prestressed concrete structures and method of producing same. 3,640,776, 2-8-72, Cl. 148-6.16.
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- Haney, Ralph D.; and Aneshansley, Nicholas E., to National Cash Register Company, The. Serial read-out memory system. 3,691,538, 9-12-72, Cl. 340-173,0sp.
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 Ascanio, Ivan; Haney, Thomas A.; and Bruno, Gerald A., 3,683,066.
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- Hanff, Michel Max: *See—*
 Chambole, Stephane; and Hanff, Michel Max, 3,641,816.
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 Monaghan, Stephen R.; and Hanfling, Jerome D., 3,639,863.
- Hanft, Herbert: *See—*
 Masters, Robert W.; and Hanft, Herbert, 3,657,671.
- Hanft, Herbert. Slide ruler to adjust length of typewritten line. 3,668,782, 6-13-72, Cl. 33-174,00r.
- Hanger, J. E., and Company Limited: *See—*
 May, Denis Ronald William, 3,671,978.
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 Hirt, Andrew J., 3,652,045.
- Hangland, Earl W. Device for loading a snowmobile onto a truck. 3,687,314, 8-29-72, Cl. 214-83,240.
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- Hanigan, Thomas J. Wire tying tool. 3,695,311, 10-3-72, Cl. 140-93,600.
- Hanington, Edda: *See—*
 Zaimis, Eleanor; and Hanington, Edda, 3,666,861.
- Hanj, Vaciv: *See—*
 Jindra, Karel; Pavlik, Kamil; Kas, Josef; Kocian, Zdenek; Hanja, Vaciv; and Tyls, Jaroslav, 3,681,907.
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 Bagge, Walter; Bagge, George F.; and Hank, Wilbur J., 3,704,897.
- Hanka, Ladislav J.; and Martin, David G., to Upjohn Company, The. Antibiotic α -methyldehydrobiotin, α -methylbiotin, and their esters. 3,658,837, 4-25-72, Cl. 260-39.7.
- Hanke, David E., to Kimberly-Clark Corporation. Tubular plastic inserter for tampons. 3,699,962, 10-24-72, Cl. 128-263,000.
- Hanke, Horst: *See—*
 Rotter, Friedrich; and Hanke, Horst, 3,670,550.
- Hanke, Jurgen J.: *See—*
 Faulk, Joseph H.; Hanke, Jurgen J.; and Striegler, John H., 3,635,294.
- Hanke, Kenneth Earl: *See—*
 Walbrun, Carl J.; and Hanke, Kenneth Earl, 3,668,351.
- Hanke, Walter: *See—*
 Bonleitner, Wolfgang; Chvatilsky, Kurt; and Hanke, Walter, 3,698,530.
- Hankins, Glen W. Method and means for selectively crushing aggregate. 3,684,196, 8-15-72, Cl. 241-14,000.
- Hankins, Maxey A., to Mole-Richardson Co. Lamp retainer structure. 3,633,024, 1-4-72, Cl. 240-52.
- Hankins, Ronald A.; Culver, Donald W.; and Scammon, Harrison B., Jr., to Aerojet-General Corporation. Fluid distributors and thrusters. 3,702,174, 11-7-72, Cl. 239-265,110.
- Hankins, Thomas C.: *See—*
 Ajmani, Mohan; DeLowe, Larry K.; and Hankins, Thomas C., 3,662,383.
- Hankins, Thomas C.; and Barleen, David Glen, to Systron-Donner Corporation. Intrusion alarm system with turbulence compensation. 3,638,210, 1-25-72, Cl. 340-258.

- Hankison Corporation: *See—*
Hankison, Paul M.; and Walker, William Foster, 3,635,238.
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- Hankley, Max E., to General Motors Corporation. Circuit for recharging the battery of a portable device from the charging system of a car. 3,646,422, 2-29-72, Cl. 320-53.
- Hanko, Jimmy J., to Weyerhaeuser Company. Display carton with inner shelf panel and a holding feature. 3,669,253, 6-13-72, Cl. 206-45.140.
- Hankosky, Andrew: *See—*
Bake, Earl A.; Pool, Eldert B.; Hankosky, Andrew; Milleville, Bertram J.; and Fowler, John Hyde, 3,685,536.
- Hanks, James V., to Horton Manufacturing Company, Inc. Combination clutch-brake. 3,667,581, 6-6-72, Cl. 192-18.100.
- Hanskraft Company: *See—*
Brenner, Henry D., 3,633,296.
- Hanlan, Harvey E. W.: *See—*
Davies, Walter J.; Hatton, Barry; Boyd, George C.; and Hanlan, Harvey E. W., 3,704,676.
- Hanley, Bernard C.: *See—*
Castonguay, Roger A.; Hanley, Bernard C.; Mallahan, Francis J.; and Wenckus, Joseph F., 3,639,718.
- Hanley, Harold G.; and Williamson, Edward E., to Motorola, Inc. Handle fastening assembly. 3,699,612, 10-24-72, Cl. 16-115.000.
- Hanley, Jack W.: *See—*
Forestal, Robert J.; and Hanley, Jack W., 3,695,389.
- Hanley, James E., II: *See—*
Stoker, Robert J.; and Hanley, James E., II, 3,648,990.
- Hanley, James O.; and Lynch, Michael J., to Crest Industries, Inc. Portable water treating apparatus. 3,633,748, 1-11-72, Cl. 210-97.
- Hanley, John J. Wheel chock. 3,647,029, 3-7-72, Cl. 188-32.
- Hanley, John P.; and Seaman, Robert W., to Gourdine Systems, Inc. Charge distribution gun. 3,683,236, 8-8-72, Cl. 317-3.000.
- Hanley, John T., Jr.: *See—*
Bidwell, Dennis P.; Davies, Douglas R.; Hanley, John T., Jr.; Hart, William K.; Henderson, Thomas A.; Lovell, Thomas W.; and Fogg, Lloyd C., 3,665,447.
- Hanley, Robert F., to Texas Instruments, Incorporated. Composite thermostatic metal laminate. 3,707,359, 12-26-72, Cl. 29-195.500.
- Hanlon, Thomas F. Black-and-white image control by ultrasonic modulation of nematic liquid crystals. 3,700,805, 10-24-72, Cl. 178-7.30d.
- Hann, Ernst Wilhelm: *See—*
Wilhelm, Hans; Faulhaber, Gerhard; Marx, Matthias; and Hann, Ernst Wilhelm, 3,632,838.
- Hann, George W.: *See—*
Stout, Beauford F.; and Hann, George W., 3,672,215.
- Hann, Paul D., to Phillips Petroleum Company. Apparatus for forming filaments. 3,647,330, 3-7-72, Cl. 425-76.
- Hanna, Bruce, to American Coleman Company. Vacuum-pressure apparatus for sweeping exterior areas. 3,662,427, 5-16-72, Cl. 15-346.
- Hanna, Daniel C.: *See—*
Ebeling, Jack F., 3,649,980.
- Hanna, Daniel C.; Ebeling, Jack F.; and Hildebrand, David (said Ebeling and said Hildebrand assors. to said), 3,701,356.
- Hanna, Daniel C.; Ebeling, Jack F.; and Hildebrand, David, said Ebeling and said Hildebrand assors. to said Hanna, Daniel C. Car washing apparatus. 3,701,356, 10-31-72, Cl. 134-58.00r.
- Hanna, Daniel C. Wraparound brushing devices. 3,704,476, 12-5-72, Cl. 15-21.00d.
- Hanna, Delbert L., to Velsicol Chemical Corporation. Preparation of esters of tetrachloroterephthalic acid. 3,689,526, 9-5-72, Cl. 260-475.00r.
- Hanna, Delbert L., to Velsicol Chemical Corporation. Process for esterification of tetrachloroterephthalic acid. 3,689,527, 9-5-72, Cl. 260-475.00r.
- Hanna, Drexel W., Jr., to Totuus Communications, Inc. Communication system having modulator for generating orthogonal continuous phase synchronous binary FSK. 3,663,754, 5-16-72, Cl. 178-66.
- Hanna, Drexel W., Jr., to Totuus Communications Inc. Pseudorandom code recognition receiver. 3,694,757, 9-26-72, Cl. 325-466.000.
- Hanna, James V.: *See—*
Piwonka, Thomas S.; and Hanna, James V., 3,682,458.
- Hanna, John E., to National Semiconductor Corporation. Low noise integrated circuit zener voltage reference device including a multiple collector lateral transistor. 3,633,052, 1-4-72, Cl. 307-299.
- Hanna, John E., to National Semiconductor Corporation. Gain controlled amplifier for integrated circuit applications. 3,706,937, 12-19-72, Cl. 330-28.000.
- Hanna, Michael E., Jr.: *See—*
Crooke, Arthur W.; and Hanna, Michael E., Jr., 3,633,017.
- Hanna Mining Company, The: *See—*
Frans, Robert D., 3,671,027.
- Sullivan, Paul G.; MacLeod, Kenneth H.; and Kempa, Joseph E., 3,703,995.
- Vedensky, Dmitri N.; and Coleman, Ernest E., 3,634,064.
- Hanna, Paul R., to Vantrex. Modular building structures and certain movable components therefor. 3,645,052, 2-29-72, Cl. 52-64.
- Hannaford, Hedley G. Construction of punch dies. 3,638,474, 2-1-72, Cl. 72-476.
- Hannagan, Harold W.: *See—*
Nistler, Gordon A.; and Hannagan, Harold W., 3,658,006.
- Hannah, Bruce R.: *See—*
Morrison, Andrew Ivar; and Hannah, Bruce R., 3,640,576.
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- Hannah, Jack W. Recording device of student learning process. 3,633,289, 1-11-72, Cl. 35-48.
- Hannah, John: *See—*
Sarett, Lewis H.; and Hannah, John, 3,691,185.
- Hannah, John, to Merck & Co., Inc. Pharmaceutical compositions containing cholanolic acid conjugates. 3,639,597, 2-1-72, Cl. 424-238.
- Hannah, Malcolm D., to Welding Institute, The. Resistance welding. 3,632,957, 1-4-72, Cl. 219-119.
- Hannahan, William F.: *See—*
Craven, Harry J.; Hannahan, William F.; and Viscusi, James J., 3,685,931.
- Hannam, Mervyn John: *See—*
Hardy, Clarence James; Lane, Edward Sydney; and Hannam, Mervyn John, 3,655,418.
- Hannan, E. T., & Associates, Inc.: *See—*
Neal, Vernon L.; and Conyer, Jerry D., 3,653,463.
- Hannan, William J.: *See—*
Gerritsen, Hendrik J.; and Hannan, William J., 3,650,595.
- Hannan, William James, to RCA Corporation. Color encoding system utilizing two filters alternately for minimizing effects of image misregistration and image pickup device lag. 3,647,945, 3-7-72, Cl. 178-5.4.
- Hannan, William James; Russell, John Patrick; and Firester, Arthur Herbert, to RCA Corporation. Relief phase holograms. 3,703,407, 11-21-72, Cl. 117-138.8ua.
- Hannauer, Milos: *See—*
Hollo, Imre; Lengyel, Sandor; Hannauer, Milos; and Eross, Bela, 3,695,412.
- Hannaway, John H., to Mount Hope Machinery Company, Incorporated. Method for correcting web distortions in woven webs. 3,636,598, 1-25-72, Cl. 26-51.4.
- Hanni, Eduard. Sheet cutting mechanism. 3,631,750, 1-4-72, Cl. 83-157.
- Hanni, Eduard, to Hammerle A.G. Sheet metal working machine. 3,664,174, 5-23-72, Cl. 72-441.
- Hanni, Eduard Alexander, to Hammerle A.G. Work-table on machines for processing metal in sheet or plate form. 3,682,465, 8-8-72, Cl. 267-130.000.
- Hannily, Daniel T., to Ostby & Barton Co. Wire wrapping device. 3,704,501, 12-5-72, Cl. 29-203.00d.
- Hanning Elektro-Werke Robert Hanning: *See—*
Neumann, Gernot, 3,662,622.
- Hanning, Robert: *See—*
Hanning, Robert; Meise, Kurt; Brinkmann, Willi; and Laufer, Wilfried, 3,657,838.
- Hanning, Robert; Meise, Kurt; Brinkmann, Willi; and Laufer, Wilfried, 3,657,838, 4-25-72, Cl. 46-19.
- Hanning-Kunststoffe: *See—*
Hanning, Robert; Meise, Kurt; Brinkmann, Willi; and Laufer, Wilfried, 3,657,838.
- Hannon, Charles N.: *See—*
Hannon, Warren W.; and Hannon, Charles N., 3,691,721.
- Hannon, Warren W.; and Hannon, Charles N., 3,698,704.
- Hannon, Charles N. Container capping apparatus. 3,645,062, 2-29-72, Cl. 53-42.
- Hannon, Gilbert H.: *See—*
Bush, Robert G.; and Hannon, Gilbert H., 3,650,773.
- Hannon, John G.: *See—*
Ernest, Dale S., 3,640,266.
- Hannon, W. N.: *See—*
Hannon, Warren W.; and Hannon, Charles N. (said Hannon, C. N., assor. to), 3,698,704.
- Hannon, Warren W.: *See—*
Hannon, Warren W.; and Hannon, Charles N., 3,691,721.
- Hannon, Warren W.; and Hannon, Charles N., to Hannon, Warren W. Folding mechanism for multiple section stacked newspapers. 3,691,721, 9-19-72, Cl. 53-120.000.
- Hannon, Warren W.; and Hannon, Charles N., said Hannon, C. N., assor. to Hannon, W. N. Folded newspaper opening mechanism for multiple section inserting machine. 3,698,704, 10-17-72, Cl. 270-57.000.
- Hannover, Eilhardt: *See—*
Ziemek, Gerhard; and Hannover, Eilhardt, 3,634,597.
- Hannula, Raymond H.: *See—*
Boysen, Gerd C.; and Hannula, Raymond H., 3,691,493.
- Hanotier, Jacques D. V.: *See—*
DeRadzitzky D'Ostrowick, Pierre; and Hanotier, Jacques D. V., 3,665,030.
- Hanover Guest Quality Foods Corporation: *See—*

- Meckley, George E., 3,664,084.
- Hanrahan, Dennis P.: *See—*
Kramasz, Joseph G., Jr.; and Hanrahan, Dennis P., 3,686,941.
- Hanrahan, Donald J., to United States of America, Navy. Fast switch utilizing hybrid electron-beam-semiconductor devices. 3,676,716, 7-11-72, Cl. 307-308.000.
- Hanrahan, James R., Jr. Orthopedic cast and process for applying same. 3,656,475, 4-18-72, Cl. 128-90.
- Hanratty, Robert J.: *See—*
Charlton, Gregory G.; Hanratty, Robert J.; and Ohta, Hiram H., 3,670,336.
- Hans, Andre Nicolas; and Catoul, Philippe Felix, to Centre National de Recherches Metallurgiques. Device for measuring oxygen concentration in a metallic bath. 3,657,094, 4-18-72, Cl. 204-195.
- Hans, Rainer; Lancier, Michael; and Becher, Hermann, to Interatom, Internationale Atomreaktorbau GmbH. Apparatus for measuring the flow volume of gases and liquids. 3,648,518, 3-14-72, Cl. 73-204.
- Hans, Stender: *See—*
Blaurock, Gunter; Hans, Stender; and Werner, Will, 3,700,271.
- Hans, Waldemar: *See—*
Komaroff, Iwan; Ziegler, Ewald; and Hans, Waldemar, 3,661,183.
- Hans, Zug: *See—*
Koch, Ernst; and Hans, Zug, 3,688,889.
- Hansch, Ferdinand: *See—*
Schmidt, Karl; Hansch, Ferdinand; Rombrecht, Hans-Malte; and Beck, Hans-Joachim, 3,697,471.
- Hanschke, Ernst: *See—*
Fester, Walter; Hanschke, Ernst; and Jakob, Franz, 3,644,299.
- Fester, Walter; Hanschke, Ernst; and Jakob, Franz, 3,686,148.
- Hanscom, Genevieve; formerly Magnuson, Genevieve I.: *See—*
Baumann, Poul H., 3,661,240.
- Hanscom, Genevieve I.: *See—*
Babb, Raymond E., 3,669,263.
- Baumann, Poul H., 3,661,240.
- Daugherty, Ralph K., 3,665,987.
- Elliot, Melvin R., 3,640,378.
- Green, Chester, 3,651,925.
- Lazzarini, Louis P., 3,642,520.
- Hanscom, Genevieve I.; formerly Magnuson, Genevieve I.: *See—*
Babb, Raymond E., 3,669,263.
- Hansel, Otto, GmbH: *See—*
Niebisch, Gunter, 3,690,372.
- Revas, Leon, 3,664,483.
- Hansel, Otto, GmbH, Firma: *See—*
Revaz, Leon, 3,688,472.
- Hansel, William B., to Sun Oil Company of Pennsylvania. Suction arrangement for pumps. 3,631,880, 1-4-72, Cl. 137-172.
- Hansel, William B., to Sun Oil Company. Suction vortex eliminator. 3,636,976, 1-25-72, Cl. 137-590.
- Hanselman, Larry R.: *See—*
Miller, Timothy A.; and Hanselman, Larry R., 3,675,625.
- Hansen, A. L., Mfg. Co.: *See—*
Bowers, Thomas S., 3,698,678.
- Hansen, John A.; and Doerrfeld, Robert E., 3,675,959.
- Hansen, Arne, to Kidde, Walter, & Company, Inc. Combined control head seal and relief valve for pressurized fluid dispensing apparatus. 3,658,208, 4-25-72, Cl. 222-3.000.
- Hansen, Arne H.: *See—*
De Rouville, Matthew; Munn, Alfred John; and Hansen, Arne H., 3,638,733.
- Hansen, Arne H.; and Hebenstreit, Lester Victor, to Kidde, Walter, & Company, Inc. Multi-option control head. 3,643,515, 2-22-72, Cl. 74-2.
- Hansen, Arne Sven; and Pegert, Walter Emil, to Telefonaktiebolaget L M Ericsson. Rack for counters. 3,650,587, 3-21-72, Cl. 312-198.
- Hansen, Carl Arthur, to Ray Proof Corporation. Automatic door operating mechanism for radiation proof enclosures. 3,681,873, 8-8-72, Cl. 49-139.000.
- Hansen, Charles M.; Muir, Joseph A.; and Leyh, Jeffrey R., to PPG Industries, Inc. Phosphoric acid pretreatment of electrodepositable welded metal seams. 3,637,470, 1-25-72, Cl. 204-29.
- Hansen, Charles N.; Young, Morris D.; and Granger, James E., to Wasatch Chemical Company. Stripping of condensation polymers with an alkoxide. 3,679,593, 7-25-72, Cl. 252-170.000.
- Hansen, Clarence M.: *See—*
Hoyt, Charles T.; Haun, John W.; Hensel, Dwight L.; Hansen, Clarence M.; Lovely, Walter G.; and Bruhn, Hjalmar D., 3,671,077.
- Hansen, Clarence M., to Michigan State University, Board of Trustees of. Tank wagon. 3,698,730, 10-17-72, Cl. 280-5.00e.
- Hansen, Clarence M., to Michigan State University, Board of Trustees of. Sod knife for anhydrous ammonia. 3,707,132, 12-26-72, Cl. 111-77.000.
- Hansen, Dale H. Method for measurement of scatter and absorption of light. 3,689,746, 9-5-72, Cl. 235-151.300.
- Hansen, David O.; Altschuler, Saul; Bernstein, William; and Hamermesh, Bernard, to TRW Inc. Laser bombardment of microparticle beam for producing atomic particles in the form of a beam or an expanding cloud. 3,679,897, 7-25-72, Cl. 250-42.000.
- Hansen, Donald E.: *See—*
Kaplan, Martin; Hansen, Donald E.; and Quist, Eric G., 3,703,000.
- Hansen, Eric George, to Globe-Union Inc. Multi-station push button switch assembly with master control means for alternative push-push or only one switch operable at a time modes of actuation. 3,646,283, 2-29-72, Cl. 200-5.
- Hansen, Eric Lowell; McNoldy, Larry Benjamin; and Pohl, Karl-Heinz, to Bell Telephone Laboratories, Incorporated. Receptacle for snap-in mounting of connectors. 3,705,377, 12-5-72, Cl. 339-121.000.
- Hansen, Erling, to Chevron Research Company. Grease compositions containing magnesium salts of unsaturated fatty acids as rust inhibitors. 3,660,288, 5-2-72, Cl. 252-40.7.
- Hansen, Erwin, to International Boiler Works Co., The. Combined steam and high temperature water generating system. 3,704,693, 12-5-72, Cl. 122-406.00r.
- Hansen, Floyd R., to Ferro Corporation. Extreme pressure lubricant additives. 3,702,822, 11-14-72, Cl. 252-37.000.
- Hansen, Gerhard. Apparatus for the sterilization of a machine. 3,650,678, 3-21-72, Cl. 21-91.
- Hansen, Gerhard. Mandrel for a device for the production and filling of a container of thermoplastic synthetic material. 3,664,793, 5-23-72, Cl. 18-5.
- Hansen, Gerhard. Apparatus for filling containers of the thermoplastic synthetic material. 3,669,602, 6-13-72, Cl. 18-5.0bf.
- Hansen, Gerhard. Apparatus for filling a chamber. 3,670,787, 6-20-72, Cl. 141-250.000.
- Hansen, Gerhard. Apparatus for producing, filling and closing plastic containers. 3,674,405, 7-4-72, Cl. 425-308.000.
- Hansen, Gerhard. Draw-cord bags. 3,687,357, 8-29-72, Cl. 229-63.000.
- Hansen, Glen D.: *See—*
Buschbom, Floyd E.; Hansen, Glen D.; and Johnson, Roger L., 3,675,758.
- Hansen, Gorm P. Dental articulator model mounting means. 3,653,126, 4-4-72, Cl. 32-32.
- Hansen, Gunter; and Seefelder, Matthias, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Substantially pure basic dyes derived from 4-methylene-1,3-disubstituted-3,4-dihydropyrimidones. 3,635,955, 1-18-72, Cl. 260-240.
- Hansen, Gunnar Lyshoj: *See—*
Petersen, Jorgen Hartvig; and Hansen, Gunnar Lyshoj, 3,635,604.
- Hansen, Gunnar Lyshoj; and Petersen, Jorgen Hartvig, to Danfoss A/S. Device for venting oil pumps. 3,692,038, 9-19-72, Cl. 137-116.000.
- Hansen, Gunnar W., to Ford Motor Company. Air cleaner and fuel vapor storage assembly remotely associated with an engine. 3,646,731, 3-7-72, Cl. 55-316.
- Hansen, Gunnar W., to Ford Motor Company. Air cleaner remote from engine and having integrated fuel vapor adsorption means. 3,678,663, 7-25-72, Cl. 55-387.000.
- Hansen, Hans: *See—*
Albrecht, Joachim; Hansen, Hans; Oppen, Dieter; Rausch, Werner; and Schiefer, Peter, 3,632,447.
- Hansen, Hans John, to Hoffmann-La Roche Inc. Antigens. 3,697,638, 10-10-72, Cl. 424-1.000.
- Hansen, Harry, to Opti-Holding AG. Coupling element for slide fasteners. 3,704,490, 12-5-72, Cl. 24-205.100.
- Hansen, Harvey Gordon, to Sylvania Electric Products, Inc. Releaseable closure mechanism. 3,669,304, 6-13-72, Cl. 220-55.00k.
- Hansen, Henry H. Dispenser. 3,693,841, 9-26-72, Cl. 222-195.000.
- Hansen, Howard C., to Clark Equipment Company. Front and side loading attachment for lifting trucks. 3,672,526, 6-27-72, Cl. 214-730.000.
- Hansen, Iver C.: *See—*
Kronies, Reinhard K.; and Hansen, Iver C., 3,671,940.
- Hansen, James H.; Leedy, Nelson J.; and Slonaker, Robert O., to Owens-Corning Fiberglass Corporation. Laminar refractory structures for forming glass fibers. 3,685,978, 8-22-72, Cl. 65-1.000.
- Hansen, Jay M.; Holscher, Donald J.; and Prince, Paul R., to Hughes Aircraft Company. SEC camera tube and image intensifier protection against excessive light damage. 3,706,903, 12-19-72, Cl. 315-10.000.
- Hansen, John A.; and Doerrfeld, Robert E., to Hansen, A. L., Mfg. Co. Door holder. 3,675,959, 7-11-72, Cl. 292-70.000.
- Hansen, John Edward: *See—*
Curtin, Dennis Edward; and Hansen, John Edward, 3,706,111.
- Hansen, John Edward, to Du Pont de Nemours, E. I., and Company. Polyamide monofilament having a microporous. 3,650,884, 3-21-72, Cl. 161-175.
- Hansen, John Edward, to Du Pont de Nemours, E. I., and Company. Etched and ridged polyamide monofilament. 3,671,381, 6-20-72, Cl. 161-180.000.
- Hansen, John Wilfred: *See—*
Duguay, Michel Albert; and Hansen, John Wilfred, 3,675,154.

- Hansen, John Wilfred, to Bell Telephone Laboratories, Incorporated. Method and apparatus for controlling an optical gate utilizing optically induced birefringence. 3,637,287, 1-25-72, Cl. 350-147.
- Hansen, Kai H., to General Motors Corporation. Fuel tank vent control. 3,703,165, 11-21-72, Cl. 123-136.000.
- Hansen, Kent W.: See—
Davis, Earl K.; Hansen, Kent W.; and Jayachandra, Yaemmanur, 3,654,505.
- Hansen, Kirby W., Jr.: See—
Dickson, Robert L.; Johnson, George B.; and Hansen, Kirby W., Jr., 3,706,854.
- Hansen, Kjell T., to Farinon Electric. Carrier supply with synchronous redundancy. 3,667,048, 5-30-72, Cl. 325-157.
- Hansen, Knut Bonde; and Petersson, John Soren, to Aktiebolaget Astra. Method and apparatus for examining liquid filled containers. 3,659,940, 5-2-72, Cl. 356-36.
- Hansen, Leo J., to Armour and Company. Measuring the tenderness of meat. 3,636,757, 1-25-72, Cl. 73-81.
- Hansen, Leo J., to Armour and Company. Measuring the tenderness of meat. 3,688,566, 9-5-72, Cl. 73-78.000.
- Hansen, Lloyd Frank, to American Cyanamid Company. Aerosol powder dosage dispensing device. 3,653,380, 4-4-72, Cl. 128-266.
- Hansen Manufacturing Company, The: See—
Grguric, Robert M.; and Wasen, Emerson J., 3,687,161.
- Marette, Ralph Thomas, 3,664,375.
- Hansen, Marvin E.: See—
Quigley, Norman R.; and Hansen, Marvin E., 3,675,752.
- Hansen, Ned P.: See—
Fox, Jack N.; Hansen, Ned P.; Olich, Eugene E.; Guenther, Ralph W.; and Rubinstein, Herbert J., 3,660,231.
- Hansen, Neil W.; and Orenstein, Nathan, to United States of America, Navy. Search-lock system. 3,675,132, 7-4-72, Cl. 325-423.000.
- Hansen, Paul B.: See—
Brock, Robert J.; and Hansen, Paul B., 3,663,344.
- Hansen, Poul E., to Emisco, Inc. Auxiliary air valve. 3,677,237, 7-18-72, Cl. 123-97.00b.
- Hansen, Quinten A. Self-cooling clutch and brake. 3,653,477, 4-4-72, Cl. 192-113.
- Hansen, Quinten A. Single lever selectively actuated forward and reverse clutches. 3,675,748, 7-11-72, Cl. 192-51.000.
- Hansen, Quinten A. Clutch-brake mechanism and control system therefor. 3,680,669, 8-1-72, Cl. 192-18.00r.
- Hansen, Quinten A. Clutch-brake mechanism and mounting and control system therefor. 3,680,670, 8-1-72, Cl. 192-18.00r.
- Hansen, Ralph T.: See—
Klein, Richard I.; Caplan, Sandor; and Hansen, Ralph T., 3,689,131.
- Hansen, Raymond E.; and Huesgen, Eugene L., to Carrier Corporation. Rotor structure for turbo machines. 3,680,979, 8-1-72, Cl. 416-198.000.
- Hansen, Richard S. Computer. 3,653,137, 4-4-72, Cl. 40-96.5.
- Hansen, Robert A.; and Jerchow, Lewis A., to Pioneer Industries, division of SOS Consolidated, Inc. Automatic closure seal. 3,704,547, 12-5-72, Cl. 49-308.000.
- Hansen, Robert B.; and Slavik, William H., to Motorola, Inc. Degaussing circuit with bucking current source for reducing current in degaussing coil to zero. 3,657,729, 4-18-72, Cl. 315-8.
- Hansen, Robert B.; Ivas, Thomas W.; and Slavik, William H., to Motorola, Inc. Automatic hue control for a television receiver. 3,668,306, 6-6-72, Cl. 178-5.4he.
- Hansen, Robert N.; Hempel, George T.; and Noesges, Raymond. Interior scaffolding arrangement. 3,679,026, 7-25-72, Cl. 182-132.000.
- Hansen, Stuart C., to Varian Associates. Microwave cavity resonator with printed circuit interior walls and modulation coils. 3,701,959, 10-31-72, Cl. 333-83.00r.
- Hansen, Svend Georg. Display stands. 3,645,404, 2-29-72, Cl. 211-168.
- Hansen, Theodore E.; and Wilson, Floyd A., to Anaconda Wire and Cable Company. Flexible power cable. 3,699,238, 10-17-72, Cl. 174-115.000.
- Hansen, Wallace A., to Essex International Inc. Ground terminal. 3,686,609, 8-22-72, Cl. 339-14.00r.
- Hansen, Wayne W.: See—
Jorgenson, Harry E.; and Hansen, Wayne W., 3,654,484.
- Hansen, Wesley M. Cleaning device for shoe soles. 3,641,609, 2-15-72, Cl. 15-112.
- Hansen, William A. Portable tankless glass washer. 3,680,567, 8-1-72, Cl. 134-57.00d.
- Hansen, Wolfgang, to Motoren- und Turbinen-Union Munchen GmbH. Method for connecting cooled or uncooled rotor blades to the blade rim of an associated disc. 3,678,555, 7-25-72, Cl. 29-156.80r.
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Tsuji, Jiro; Hara, Michio; and Ohno, Kiyotaka, 3,658,866.

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Matsui, Yoshinari; Hara, Minoru; and Komachiya, Yoshioki, 3,642,888.
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Kubodera, Toshiya; Hara, Tasuku; and Makabe, Hideki, 3,647,390.
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Masuda, Toru; Usui, Yoshiro; Hara, Yukio; and Komatsu, Toshikatsu, 3,644,339.
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Ueno, Takahiro; and Harada, Michio, 3,663,368.
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Shibata, Minoru; Yusa, Makoto; Nakata, Hisao; and Harada, Michisuke, 3,705,866.
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Homma, Shumzo; and Harada, Minoru, 3,669,648.
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Yoshiyama, Ichiro; Okishima, Yoshiro; and Harada, Saburo, 3,633,144.
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Higashide, Eiji; Hasegawa, Toru; Shibata, Motoo; Kishi, Toyokazu; Harada, Setsuo; and Mizuno, Komei, 3,660,567.
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Oshibuchi, Koji; Kogure, Motoo; Kanbe, Masaru; and Harajima, Nobuo, 3,704,162.
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Beumer, Karl W.; Geany, Gerard M.; Haran, John A.; Hecker, Edward P.; Nyman, George E.; and Post, Robert E., 3,643,881.
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Imai, Atsuo; Harata, Mituo; Ogawa, Yoshitaka; and Hasegawa, Shoji, 3,671,324.
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Fagan, Lloyd D.; Hadden, David R., Jr.; Haratz, David; and Sarlo, Lorenz M., 3,646,526.
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Haise, Hans Joachim; and Harbort, Hans, 3,638,612.
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Hunter, William Hubert; and Harbridge, John Barry, 3,689,493.
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Story, Thomas, 3,663,033.
- Harcourt Brace Jovanovich, Inc.: *See*—
Rock, Edward M.; Loughman, Joseph F., Jr.; and Mc Manus, Ann, 3,670,872.
- Harcourt, David N.; and Jack, David, to Allen & Hanburys Limited. Pharmaceutical composition containing 2-methyl-5-phenyl-1,2-

- dihydro-3H-2-benzazepine for treatment of a condition associated with anxiety or tension. 3,642,993, 2-15-72, Cl. 424-244.
- Harcourt, David N.; and Brooks, James R., to Allen & Hanburys Limited. 2-Methyl-5-phenyl-1,2-dihydro-3H-2-benzazepine or a salt thereof and process for preparing same. 3,655,651, 4-11-72, Cl. 260-239.
- Harcuba, Siegfried, to Intervet Etablissement. Apparatus for the continuous production of profile glass and plate glass in band form. 3,659,028, 4-25-72, Cl. 65-185.
- Harcuba, Siegfried, to Transglas, AG. Glass wall construction consisting of a plurality of glass elements of substantially U-shaped cross section. 3,702,047, 11-7-72, Cl. 52-241.000.
- Hard, Carl G. Transportable breakwater. 3,691,774, 9-19-72, Cl. 61-5.000.
- Hard, David A., to Engineered Products Company, The. Tamper-proof mirror mounting. 3,638,900, 2-1-72, Cl. 248-488.
- Hard, Robert A.; Stoyell, Loyal A.; and Young, Claude F., to Union Carbide Corporation. Annealing tower. 3,703,039, 11-21-72, Cl. 34-174.000.
- Hardart, Alfred T.: *See*—
Faure, Louis H.; and Hardart, Alfred T., 3,647,334.
- Hardcast, Inc.: *See*—
Young, Chester C., 3,679,456.
- Hardebeck, Klaus: *See*—
Popelak, Alfred; Lerch, Ansgar; Stach, Kurt; Roesch, Egon; and Hardebeck, Klaus, 3,665,002.
- Hardegger, Emil; and Meier, Arthur Josef Johann. Streptozotocin and derivatives. 3,694,428, 9-26-72, Cl. 260-211.00r.
- Hardel, Hans-Joachim: *See*—
Sennewald, Kurt; Ohorodnik, Alexander; and Hardel, Hans-Joachim, 3,639,472.
- Hardeman, George Eduard Gerard; deceased (by Mulkens, Casper Antonius Henricus; administrator). Optical imaging system. 3,707,325, 12-26-72, Cl. 350-294.000.
- Harden, Chester M.: *See*—
West, Alfred Gordon; Harden, Chester M.; and Perce, Clyde E., 3,633,687.
- Harden, Darrel G.: *See*—
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- Harden, Joseph T., Jr., to Creative Ideas, Inc. Portable sandblaster. 3,704,811, 12-5-72, Cl. 222-4.000.
- Harden, Kendall L., to Procter & Gamble Company, The. Self-centering spraying apparatus. 3,683,547, 8-15-72, Cl. 47-1.700.
- Harden, William O.: *See*—
Lecht, Charles P.; Harden, William O.; Lavell, Matthew J.; Kos, Stanley M.; and Pace, Robert A., 3,660,645.
- Hardenberg, Horst, to Daimler-Benz Aktiengesellschaft. Valve seat for an inlet valve of mixture-inducing internal combustion engines. 3,693,606, 9-26-72, Cl. 123-141.000.
- Hardenbrook, James Maurice: *See*—
Van Dorn, Warren Guy; and Hardenbrook, James Maurice, 3,698,905.
- Harder, Abraham. Chock for a tandem wheeled trailer. 3,700,077, 10-24-72, Cl. 188-32.000.
- Harder, Arthur J., Jr.; and Bilancia, Raymond A., to Coach and Car Equipment Corporation. Elevation adjusting assembly for seat. 3,638,897, 2-1-72, Cl. 248-400.
- Harder, James W., to Dow Corning Corporation. Flame resistant silicone elastomers containing carbon black and platinum. 3,652,488, 3-28-72, Cl. 260-37.
- Harder, John R.: *See*—
Young, William E.; and Mahaffy, Reid A., 3,695,900.
- Hardesty, Benjamin T., to Shakespeare Company. Golf club head and novel method of producing same. 3,659,855, 5-2-72, Cl. 273-173.
- Hardesty, Donald E.; and Rodgers, Thomas A., to Shell Oil Company. Molten salt hydroconversion process. 3,677,932, 7-18-72, Cl. 208-108.000.
- Hardesty, Edwin C., to Western Electric Company, Incorporated. Methods of and apparatus for unwinding a helically wound elongated body. 3,656,516, 4-18-72, Cl. 140-149.
- Hardesty, Edwin C.; Krumreich, Charles L.; Mulbarger, Albert E., Jr.; and Walen, Stephen W., to Bell Telephone Laboratories, Incorporated and Western Electric Company, Incorporated. Devices for making electrical connections. 3,699,498, 10-17-72, Cl. 339-640.0m.
- Hardesty, Ethridge E.: *See*—
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- Hardesty, Floyd W. Geometric patterned board game. 3,638,947, 2-1-72, Cl. 273-135.
- Hardesty, George K. C.; Dickey, Joseph W.; and Waltman, Donald J., Jr., to United States of America, Navy. Programmed-response spectral scanning telephotometer system. 3,634,694, 1-11-72, Cl. 250-217.
- Hardie, Neil S., to Plessey Company Limited, The. Electrical inverter arrangements. 3,638,097, 1-25-72, Cl. 321-27.
- Hardie, Waldo R.; and Aaron, Joseph E., to Cutter Laboratories, Inc. 1,3-dioxolan-4-yl-alkyl guanidines. 3,651,090, 3-21-72, Cl. 260-340.9.
- Hardigg, James S. Shock isolating device. 3,690,540, 9-12-72, Cl. 229-14.000.
- Hardin, Bobby O. Apparatus for testing soils in situ. 3,643,498, 2-22-72, Cl. 73-101.
- Hardin, James T., to Eltra Corporation. Dynamic braking for universal motors. 3,673,481, 6-27-72, Cl. 318-246.000.
- Hardin, William M. Mounting arrangement for lathe cutting tools. 3,688,614, 9-5-72, Cl. 82-37.000.
- Hardin, William W.; and Traglia, Patrick J., to International Business Machines Corporation. Coordinate transmission for character recognition systems. 3,646,584, 2-29-72, Cl. 340-146.3.
- Hardin, Wise J. Method for removing broken studs. 3,654,690, 4-11-72, Cl. 29-427.
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- Harding, Billie R.: *See*—
Naugle, Gene O.; and Harding, Billie R., 3,646,679.
- Harding, Charles I.; Russell, Lamar V.; Steeves, W. Malcolm; and Higgins, Irwin R. Gaseous oxide recovery. 3,660,040, 5-2-72, Cl. 23-260.
- Harding, Hollis J. Die puller. 3,691,610, 9-19-72, Cl. 29-255.000.
- Harding, John Kammerer, to Dowty Technical Developments Limited. Fuel injection systems. 3,654,908, 4-11-72, Cl. 123-140.
- Harding, John Patrick, to Post Office, The. Modifications of wire connectors. 3,662,089, 5-9-72, Cl. 174-84.
- Harding, John W.: *See*—
Buntin, Robert R.; Harding, John W.; Keller, James P.; and Murdock, Volle L., 3,684,415.
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- Harding, Joseph J. Silverware cabinet. 3,650,039, 3-21-72, Cl. 34-45.
- Harding, Philip A.; and Karaff, George D., to Bell Telephone Laboratories, Incorporated. Memory wiring arrangement with changeable common mode rejection circuit loop. 3,633,184, 1-4-72, Cl. 340-174.
- Harding, Philip A., to Electronic Memories and Magnetics Corporation. Magnetic core memory line sink voltage stabilization system. 3,675,221, 7-4-72, Cl. 340-174.0tb.
- Harding, Robert C.: *See*—
Evans, William E.; and Harding, Robert C., 3,668,465.
- Harding, William R.: *See*—
Hill, Vincent G.; and Harding, William R., 3,705,248.
- Harding, William R.; and Hill, Vincent G., to Carborundum Company, The. Apparatus and process for the measurement of the pressure of corrosive material. 3,635,089, 1-18-72, Cl. 73-395.
- Hardinge Brothers, Inc.: *See*—
Andrews, Earl C., 3,666,278.
- Catlin, Francis D., 3,663,999.
- Cunningham, Henry L., 3,662,651.
- Parsons, Hubert J.; and Peterson, Anders Adolf, 3,656,772.
- Parsons, Hubert J., 3,658,353.
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- Peterson, Anders A., 3,641,850.
- Hardingham, Derek D. Laminated protective coating for metallic surfaces. 3,632,465, 1-4-72, Cl. 161-54.
- Hardingham, Derek D. Pressure differential actuated sealing member. 3,662,917, 5-16-72, Cl. 220-553.
- Hardison, Jack E.: *See*—
Howell, Eddie P.; Youngman, Carl A.; Hardison, Jack E.; and Tribble, Robert E., 3,668,927.
- Hardison, Leslie C., to Universal Oil Products Company. Catalytic oxidation of waste gas streams with fluidizable subdivided particles. 3,632,304, 1-4-72, Cl. 23-25.
- Hardison, Leslie C., to Universal Oil Products Company. Process for decontaminating a flue gas system. 3,632,305, 1-4-72, Cl. 23-25.
- Hardison, Leslie C., to Universal Oil Products Company. Method and means for two-stage catalytic treating of engine exhaust gases. 3,701,823, 10-31-72, Cl. 423-213.000.
- Hardison, Leslie C.; and Guerrieri, Salvatore A., to Universal Oil Products Company. System for conditioning flue gas with H₂SO₄. 3,704,569, 12-5-72, Cl. 55-4.000.
- Hardman & Holden Limited: *See*—
Krug, Pavel, 3,632,293.
- Hardman Aerospace: *See*—
Karlson, Asbjorn, 3,640,570.
- Hardman, Bruce B.: *See*—
Holub, Fred F.; Berger, Abe; Hardman, Bruce B.; and Urkevich, Michael P., 3,701,795.
- Hardman, Carl C., to Westinghouse Electric Corporation. Iron electrode. 3,679,482, 7-25-72, Cl. 136-25.000.
- Hardman, Harley F.: *See*—
Grasselli, Robert K.; and Hardman, Harley F., 3,642,930.
- Hardman Incorporated: *See*—
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Morane, Bruno; Paoletti, Charles; and Hardoin, Yves, 3,698,453.

Hardt, Dietrich: See—
Weitzel, Hans; Dinges, Karl; Gobel, Wilhelm; and Hardt, Dietrich, 3,641,206.

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Carl, Klaus Friedrich Leonhard; and Hardtl, Karl Heinz, 3,684,714.

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Hardtmann, Goetz E., to Sandoz-Wander, Inc. Preparation of 2-alkylaminobenzophenones. 3,642,897, 2-15-72, Cl. 260-570.

Hardtmann, Goetz E.; and Ott, Hans, to Sandoz-Wander, Inc. 5-Substituted-2,3-dihydroimidazo[1,2-c] quinoxalines. 3,644,354, 2-22-72, Cl. 260-247.5.

Hardtmann, Goetz E., to Sandoz-Wander, Inc. Certain 5-aryl-2-amino-nicotinonitriles. 3,660,414, 5-2-72, Cl. 260-294.9.

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Hardware & Industrial Tool Co., Inc.: See—
Vosbikian, Joseph; and Vosbikian, James T., 3,696,374.

Hardway, Edward V., Jr., to Spearhead, Inc. Method and apparatus for determining work of breathing. 3,703,893, 11-28-72, Cl. 128-2080.

Hardwick, Albert R., to USM Corporation. Devices for cutting fabric. 3,695,134, 10-3-72, Cl. 83-451.000.

Hardwick, John David: See—
Wright, David Ellis; and Hardwick, John David, 3,673,705.

Hardwick, Peter D.; and Trombetta, John J. Aerosol cartridge for pressing irons. 3,670,433, 6-20-72, Cl. 38-77.300.

Hardwicke, James E.; Scheffler, Bernard; and Weisz, Herman S., to Lowenstein, M., & Sons, Inc. Preparation of flame retardant composition for cellulosic material. 3,647,734, 3-7-72, Cl. 260-29.4.

Hardwig, Ernest B. System for sorting mail bags. 3,655,030, 4-11-72, Cl. 198-135.

Hardy, Alan; Messenger, David T.; and Carpenter, Austin T., to USM Corporation. Processes and compositions for molding polyurethane foam articles. 3,661,811, 5-9-72, Cl. 260-2.5.

Hardy, Clarence James; Lane, Edward Sydney; and Hannam, Mervyn John, to United Kingdom Atomic Energy Authority. Production of pigments. 3,655,418, 4-11-72, Cl. 106-304.

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Hardy, Daniel G.; and Goby, Daniel E. Multiregister for time-division switching network. 3,668,329, 6-6-72, Cl. 179-18.00j.

Hardy, Donald F.: See—
Dunham, Milo A.; and Hardy, Donald F., 3,695,223.

Hardy, Donald F., to Dart Industries, Inc. Method of coating irregular objects. 3,677,801, 7-18-72, Cl. 117-94.000.

Hardy, Edgar E.: See—
Parts, Leo P.; and Hardy, Edgar E., 3,696,742.

Hardy, Frederick E., to Procter & Gamble Company. The Alkali metal N-halo-alkanesulfonamides as bleaching agents and methods of their preparation. 3,707,554, 12-26-72, Cl. 260-543.00a.

Hardy, Frederick Edward: See—
Robson, Peter; and Hardy, Frederick Edward, 3,654,348.

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Hardy, Graham George; and Masters, Leonard Kenneth Morgan, to Russell-Hobbs Limited. Beverage maker. 3,665,841, 5-30-72, Cl. 99-281.

Hardy, John C., to Angelica Corporation. Pouch system for hospital patients. 3,674,034, 7-4-72, Cl. 128-379.000.

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Madsen, Andrew; and Hardy, John W., 3,634,675.

Hardy, Joseph. Portable hand truck. 3,693,996, 9-26-72, Cl. 280-47.340.

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Hardy, Kenneth L.: See—
Shiley, Donald P.; Fettel, Bruce E.; and Hardy, Kenneth L., 3,693,624.

Hardy, Paul Wilson; and Peterson, Orrin Martel, to American Can Company. Method of making glazed bonded expanded vermiculite same. 3,689,611, 9-5-72, Cl. 264-43.000.

Hardy, Peter S. Exercising apparatus. 3,636,946, 1-25-72, Cl. 128-57.

Hardy, Ralph W. F.; and Holsten, Richard D., to Du Pont de Nemours, E. I., and Company. Symbiotic fixation of atmospheric nitrogen. 3,704,546, 12-5-72, Cl. 47-58.000.

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Douglas, Edwin J., 3,638,743.

Hardy, Thomas G., Jr. Apparatus for removing skin sections. 3,670,734, 6-20-72, Cl. 128-305.000.

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Berry, Holland J.; Hardy, William C.; and Zadow, Dale W., 3,680,636.

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Herriman, John Dennis; and Hare, Alan Lawrence, 3,657,107.

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Hare, Terence G., to Miller Manufacturing Company. Faucet body and method of manufacture. 3,701,364, 10-31-72, Cl. 137-625.410.

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New, John D., 3,697,838.

Haren, Ralph J., to Tenneco, Inc. Compact muffler. 3,682,270, 8-8-72, Cl. 181-54.000.

Harenberg, Harold L., Jr., to McDonnell Douglas Corporation. Performance and failure assessment monitor. 3,678,256, 7-18-72, Cl. 235-150.200.

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Dumbaugh, William H., Jr.; Flannery, James E.; and Hares, George B., 3,661,601.

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Harf, Kenneth G., to Singer-General Precision, Inc. Digital oscillator having a fast response using two one-shot multivibrators and a pair of NAND gates. 3,693,102, 9-19-72, Cl. 328-188.000.

Harfap, Victor: See—
United States of America, National Aeronautics and Space Administration, 3,694,700.

Harfenist, Morton; and Bautzly, Richard, to Burroughs Wellcome & Co. (U.S.A.) Inc. Anti-tapeworm infection composition. 3,694,556, 9-26-72, Cl. 424-326.000.

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Hargis, Billy M., to American Lava Corporation, mesne. Hermetic power package. 3,681,513, 8-1-72, Cl. 174-52.00s.

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Hargitay, Bartholomew, to Union Carbide Corporation. Process for the fractionation of polymers. 3,701,764, 10-31-72, Cl. 260-88.300.

Hargrave, Richard D.: See—

Vaughn, George A.; and Hargrave, Richard D., 3,702,701.

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Hargreaves, Clifford McDonald: See—
Prast, Gijbert; and Hargreaves, Clifford McDonald, 3,704,600.

Hargreaves, Edward William, to Special Engineering Development Limited. Batching of articles. 3,680,447, 8-1-72, Cl. 93-93.00k.

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Hargrove, William W., to Lilly, Eli, and Company. 3-Azetidinols. 3,668,196, 6-6-72, Cl. 260-239.00a.

Hari, Stefan; and Ronco, Karl, to Ciba Limited. 6,13-Cyano, nitro, or arylsulphonyl triphenyldioxazine dyestuffs. 3,635,963, 1-18-72, Cl. 260-246.

Harigaya, Hiroshi: See—
Yamamura, Katsumi; Harigaya, Hiroshi; Kasai, Kazutomo; and Asahina, Michio, 3,677,744.

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Sato, Ryuichi; Harimaya, Seizi; Agata, Akihiko; Morishima, Kunio; Tsutsui, Toshiaki; and Kano, Yasuhiro, 3,637,329.

Haring, Robert C., to Olin Mathieson Chemical Corporation. Polyethers stabilized with mixture of butylated toluene and p,p'-diocetyl diphenyl amine. 3,637,865, 1-25-72, Cl. 260-611.5.

Harings, Horst, to Felten & Guillaume Schaltanlagen GmbH. Leakage circuit breakers. 3,668,577, 6-6-72, Cl. 335-192.000.

Harita, Yasuhiro: See—
Tabuchi, Ichiro; Iwami, Akira; Harita, Yasuhiro; and Yamamoto, Toshiaki, 3,669,284.

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Haritonoff, Boris W.: See—
Griswold, Augustus W.; and Haritonoff, Boris W., 3,698,275.

Harken, Russel D., to Monsanto Company. Detergent formulations. 3,689,418, 9-5-72, Cl. 252-89.000.

Harkenrider, Robert J.; and Moe, John L., to Waynco, Inc. Control circuit. 3,675,046, 7-4-72, Cl. 307-252.00b.

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Harker, Robert Ian, to Johns-Manville Corporation. Hydrothermal synthesis, of perovskite composed of CaO-TiO₂. 3,701,828, 10-31-72, Cl. 423-598.000.

Harker, Royce Kenneth; Prickett, Warren Wilson; and Roesch, Kurt Fritz, to American Can Company. One-way valve insert for collapsible dispensing containers. 3,669,323, 6-13-72, Cl. 222-490.000.

Harkey, Charles N., to Jewell, J. D., Inc. Method of coating edible food articles. 3,703,382, 11-21-72, Cl. 99-169.000.

Harkins, Alvin E., Jr., to Ethyl Corporation. Distillation of olefins with alkanol addition to prevent degradation. 3,655,520, 4-11-72, Cl. 203-6.

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Harkins, Delue M.: See—
Harkins, Chester M.; and Harkins, Delue M., 3,697,981.

Harkins, Patrick A., Jr., to Stromberg Datagraphix, Inc. Sputter etching process. 3,676,317, 7-11-72, Cl. 204-192.000.

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Harkness, Joseph R., to Briggs & Stratton Corporation. Electrical system for tractor powered by magneto ignition engine. 3,671,851, 6-20-72, Cl. 322-90.000.

Harlacher, William H.: See—
Fleming, Roger A.; Harlacher, William H.; Spalek, Raymond J.; and Lowe, James B., 3,658,981.

Harlan, Kenneth C.: See—
Harvill, J. D.; and Harlan, Kenneth C., 3,664,165.

Harlan, Martin L.; Davis, Jerry L.; and Nyland, Lloyd A., to Wolverine World Wide, Inc. Plate skinning machine. 3,640,325, 2-8-72, Cl. 146-241.

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Brown, Jerald L.; and Harlan, William O., 3,688,804.

Harland, Glen E., Jr.: See—
Hanson, Charles G.; and Harland, Glen E., Jr., 3,643,153.

Harland, Philip W., to Ametek, Inc. Plastic hairspring. 3,696,687, 10-10-72, Cl. 74-431.000.

Harland Simon Limited: See—
Worthing, Nicolas, 3,665,887.

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Frick, Wilhelm E.; Harle, Horst; and Wenger, Thomas, 3,705,944.

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Tuson, Ian V., 3,635,301.

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Harlow, David Arthur: See—
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Townsend, Keith Gerald; and Harlow, David Arthur, 3,667,256.

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Hensel, William E., Jr.; and Harlowe, William W., Jr., 3,643,455.

Harm, Alson R.: See—
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Harmetz, Ronald: See—
Slettinger, Meyer; Harmetz, Ronald; and Reinhold, Donald F., 3,692,651.

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Toy, William W., 3,704,062.
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- Harmon, Robert W., to Chance, A. B., Company. Gas-separable electrical connector and method. 3,649,952, 3-14-72, Cl. 339-45.
- Harmon, Samuel T., Jr.: See—
Monroe, Kenneth E.; and Harmon, Samuel T., Jr., 3,683,367.
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- Harmon, Sandra R.: See—
Blank, Fritz; Day, William C.; Harmon, Sandra R.; Tonic, Pauline F.; and Yu, Ruy J., 3,674,645.
- Harms, Alan: See—
Harms, Eric F., 3,684,282.
- Harms, David A., to Bell Telephone Laboratories, Incorporated. PCM coder. 3,638,219, 1-25-72, Cl. 340-347.
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Lehnen, Josef Peter; Menges, Hans G. L.; and Harms, Engelbert G., 3,652,064.
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Menges, Hans G. L.; Lehnen, Josef P.; and Harms, Englebert G., 3,680,844.
- Harms, Eric F., to Harms, Alan. Hand and foot operated swing. 3,684,282, 8-15-72, Cl. 272-87,000.
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Kornumpf, William P.; and Harnden, John D., Jr., 3,697,717.
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Ehlers, Klaus-Peter; Harnisch, Heinz; and Lischka, Siegfried, 3,637,346.
- Gabler, Hellmut; Harnisch, Heinz; Heymer, Gero; Merkenich, Karl; and Pirig, Wolf-Dieter, 3,639,287.
- Gehrig, Oskar; and Harnisch, Heinz, 3,656,896.
- Gerhardt, Wilfried; and Harnisch, Heinz, 3,676,100.
- Heymer, Gero; and Harnisch, Heinz, 3,645,674.
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- Kern, Winfried; Heymer, Gero; and Harnisch, Heinz, 3,652,205.
- Krahl, Fritz; Hammel, Dieter; Heymer, Gero; and Harnisch, Heinz, 3,705,232.
- Kribbe, Kurt Willi Harris, 3,655,334.
- Rosinski, Hilmar; and Harnisch, Heinz, 3,671,612.
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- Harnoncourt, Karl, to List, Hans. Attachment for the microanalysis of blood gases. 3,639,830, 2-1-72, Cl. 324-30.
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- Lewis, Richard L.; Hickner, George B.; and Harokopus, William P., 3,701,568.
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Livingston, Douglas J., 3,641,376.
- West, Charles E., 3,683,218.
- Harp, Edgar E., to Texas Instruments, Incorporated. Preamplification circuitry for photoconductive sensors. 3,638,050, 1-25-72, Cl. 307-311.
- Harp, Grace E. Doll-like puppet with movable mouth. 3,698,127, 10-17-72, Cl. 46-126,000.
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Harper, Kenneth B.; and Tremblay, Hubert J., 3,648,143.
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- Harper, Donald: See—
Ashworth, Brian Thomas; Harper, Donald; and Hill, Peter, 3,642,727.
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Levesque, Norman R.; and Harper, Donald E., 3,703,603.
- Harper, Earl F.; Murphy, Clarence R.; and Walsh, William L., to Gulf Research & Development Company. Thermal recovery of isoamylenes from tertiary amyl chloride. 3,644,554, 2-22-72, Cl. 260-677.
- Harper, Ernest V.: See—
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- Harper, James G.: See—
Happ, Marvin B.; and Harper, James G., 3,684,464.
- Harper, John: See—
Gapp, Roland Howard; Alazraki, Marcos; and Harper, John, 3,685,391.
- Harper, John S., Jr.: See—
Payne, Mackey M.; and Harper, John S., Jr., 3,707,218.
- Harper, Kennard W., to General Electric Company. Direct reflecting sight. 3,637,315, 1-25-72, Cl. 356-251.
- Harper, Kenneth B.; and Tremblay, Hubert J., to Harper Associates, Inc. Automatic work repeating mechanism. 3,648,143, 3-7-72, Cl. 318-568.
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- Harper, Leonard Roy: See—
Finnegan, Edward D.; Harper, Leonard Roy; Mitrofanoff, Nicholas S.; and Slutman, Allen C., 3,701,105.
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- Harper, Patrick D. Floatless fluid level gauge. 3,678,749, 7-25-72, Cl. 73-304,00r.
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- Harper, Robert C., to Cincinnati Milacron Inc. Mixing device. 3,675,903, 7-11-72, Cl. 259-8,000.
- Harper, Robert J., Jr.: See—
Blanchard, Eugene J.; Harper, Robert J., Jr.; Gautreaux, Gloria A.; and Reid, John D., 3,658,457.
- Blanchard, Eugene J.; Gautreaux, Gloria A.; and Harper, Robert J., Jr., 3,702,230.
- Bruno, Joseph S.; Harper, Robert J., Jr.; and Reid, John D., 3,639,097.
- Lofton, John T.; Harper, Robert J., Jr.; and Blanchard, Eugene J., 3,666,400.
- Lofton, John T.; Harper, Robert J., Jr.; and Blanchard, Eugene J., 3,676,207.
- Harper, Robert J., Jr.; Bruno, Joseph S.; and Gautreaux, Gloria A., to United States of America, Agriculture. Polypropylene glycols and substituted polypropylene glycols are used in conjunction with crosslinking agents to produce durable press fabrics with improved soil release performance. 3,676,052, 7-11-72, Cl. 8-115,600.
- Harper, Roger H.: See—
Marraffino, Leonard L., 3,638,838.
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- Harper, Tommie B.: See—
Rickel, William E.; Oustad, Thomas B.; and Harper, Tommie B., 3,631,660.
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- Harper-Wyman Company: See—
Michaels, Leonard H., 3,664,323.
- Stohrer, Charles E., Jr.; and Smith, Bissell J., 3,664,591.
- Harr, George B. Process of providing a fuel tank in a vehicle. 3,691,620, 9-19-72, Cl. 29-451,000.
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- Harrah, Robert S.: See—
Harrah, Robert S.; and Kalsi, Manmohan Suigh (said Kalsi assor. to said), 3,698,351.
- Harrah, Robert S. Pneumatic annunciator system. 3,651,643, 3-28-72, Cl. 60-105.
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- Harrel Incorporated: See—
Harris, Holton E., 3,636,540.
- Harrell, Jerald R.; Logothetis, Anestis L.; and Verbanc, John J., to Du Pont de Nemours, E. I., and Company. Hydroxylated alpha-olefin/non-conjugated diene polymer. 3,679,627, 7-25-72, Cl. 260-41,500.
- Harrell, Marvin L.: See—
Nixon, Dalbro R., Jr.; McIlhenny, David J.; and Harrell, Marvin L., 3,632,020.
- Nixon, Dalbro R., Jr.; McIlhenny, David J.; and Harrell, Marvin L., 3,647,116.
- Nixon, Dalbro R., Jr.; McIlhenny, David J.; and Harrell, Marvin L., 3,677,441.
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- Harrer, Erich: See—
Schulz, Gerhard; Harrer, Erich; and Matthias, Guenther, 3,696,142.
- Harri, Eugen: See—
Bollinger, Pietro; Harri, Eugen; and Sigg, Hans-Peter, 3,655,880.
- Closse, Annemarie; and Harri, Eugen, 3,697,650.
- Harrier, Stanley C., to General Electric Company. Perforated reinforced plastic members and method for making. 3,704,194, 11-28-72, Cl. 156-245,000.
- Harriers Electronics Corporation: See—
Welford, Walter T., 3,634,617.
- Harries, David A.: See—
Ingram, Brian; Harries, David A.; and Phoenix, Lancelot, 3,704,044.
- Harries, David Anthony: See—
Ingram, Brian; Harries, David Anthony; and Phoenix, Lancelot, 3,694,038.
- Ingram, Brian; and Harries, David Anthony, 3,703,079.
- Ingram, Brian; Harries, David Anthony; and Phoenix, Lancelot, 3,703,319.
- Harrigan, David J.: See—
Faria, Sixdeniel; and Harrigan, David J., 3,655,978.
- Harrigan, Robert Emmet, to Abbott Laboratories. Volumetric infant feeding unit. 3,645,262, 2-29-72, Cl. 128-222.
- Harrigan, Thomas George, to Bell Telephone Laboratories, Incorporated. Base reach-through active series voltage regulator. 3,652,919, 3-28-72, Cl. 321-18.
- Harriman, Allen C.: See—
Kamborian, Jacob S.; Harriman, Allen C.; and Vornberger, Karl F., 3,653,089.
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- Harriman, Lester W.: See—
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- Harrington, Edward F.: See—
Carberry, John L.; Carson, David C., Sr.; and Harrington, Edward F., 3,655,224.
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Pase, John D.; and Harrington, Francis E., 3,683,975.
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- Harrington, James Vincent: See—
Blanding, John E.; Trageser, Edmund C.; and Harrington, James Vincent, 3,661,204.

Harrington, Jerry E., to Chrysler Corporation. Apparatus for the manufacture of powder metal helical gears. 3,677,672, 7-18-72, Cl. 425-78.000.

Harrington, John W.; and Milne, Edward G. Skimmers for pollution control device. 3,707,232, 12-26-72, Cl. 210-242.000.

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Moore, George G. I.; Harrington, Joseph Kenneth; and Gerster, John F., 3,686,192.

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Robertson, Jerry E.; Harrington, Joseph Kenneth; and Banitt, Elden H., 3,639,361.

Trancik, Ronald J.; Moore, George G.; and Harrington, Joseph Kenneth, 3,689,523.

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Harrington, Joseph Kenneth; Moore, George G. I.; and Gerster, John F., to Riker Laboratories, Inc. Thiophene derivatives. 3,696,122, 10-3-72, Cl. 260-332.30c.

Harrington, Richard H.: *See—*
Brumbaugh, Philip A.; Harrington, Richard H.; Nemier, Stanley E.; and Nielsen, Thomas C., 3,672,482.

Harrington, Richard H., to International Business Machines Corporation. High speed front impact printer. 3,665,852, 5-30-72, Cl. 101-93.00c.

Harrington, Roy Edwards: *See—*
Denison, Henry Hoyt; and Harrington, Roy Edwards, 3,662,763.

Harrington, Thomas L.; and Jorgensen, Jens L., to Minnesota Mining and Manufacturing Company. Method for marking roadways. 3,664,242, 5-23-72, Cl. 94-22.000.

Harrington, Timothy M.: *See—*
Marshall, J. Howard, III; and Harrington, Timothy M., 3,671,740.

Harrington, Wilfred H.: *See—*
Winstanley, Roy D. J.; Grossett, Alfred H.; and Harrington, Wilfred H., 3,654,007.

Harrington-Geissler & Associates, Inc.: *See—*
Geissler, Ulrich M., 3,677,351.

Harris, Alan G.: *See—*
Davies, Idwal; and Harris, Alan G., 3,653,884.

Davies, Idwal; Canning, Thomas Arthur; and Harris, Alan G., 3,658,517.

Harris, Albert Edward; and Blundell, Ian, to Ilford Limited. Photographic material comprising a silver halide element with an overlayer of gelatin hardened with mucochloric acid. 3,697,278, 10-10-72, Cl. 96-67.000.

Harris, Allan E.; and Behnke, Wilbert E., to Harris-Hub Company, Inc. Bed frame assembly. 3,646,623, 3-7-72, Cl. 5-181.

Harris, Allen E., to Halliburton Company. Packer sleeves. 3,666,010, 5-30-72, Cl. 166-134.000.

Harris, Barbara Joan: *See—*
Harris, Kenneth John, 3,686,472.

Harris, Barry Russell: *See—*
Nickerson, Richard Gorham; Harris, Barry Russell; and Breslouf, Morris, 3,644,257.

Harris, Bernard: *See—*
Butzow, Neil W.; and Harris, Bernard, 3,700,295.

Harris, Billy G.: *See—*
Lelano, Don H.; and Harris, Billy G., 3,683,453.

Harris, Billy J.: *See—*
Crandall, Stanley C.; Harris, Billy J.; and Nelson, Richard L., 3,662,924.

Harris, Brian Walton: *See—*
Capp, Clifford William; Harris, Brian Walton; and Hawkins, Edwin George Edward, 3,676,430.

Harris Caloric Company: *See—*
Ross, Albert, 3,667,895.

Ross, Albert, 3,694,134.

Harris, Calvin E.: *See—*
Williams, David A.; Yen, Chen-Hsiung; and Harris, Calvin E., 3,687,786.

Harris, Carl R., to Electro Development Corporation. Weighing device for logging trucks or the like. 3,661,220, 5-9-72, Cl. 177-136.000.

Harris, Carl R.; Banks, Robert B.; and Soward, Dallas V., to Electro Development Corporation. Aircraft weight and center of gravity indicator system. 3,701,279, 10-31-72, Cl. 73-65.000.

Harris, Carl Robert. Inflatable back and head floor rest. 3,680,917, 8-1-72, Cl. 297-456.000.

Harris, Cary D. Container and method for dispensing articles. 3,684,158, 8-15-72, Cl. 229-17.0rs.

Harris, Charles R., Sr. Sprinkler head. 3,664,586, 5-23-72, Cl. 239-233.

Harris, Colin; and Meacham, Eric Richard, to Hough, Hoseason & Company, Limited. Detergent solutions. 3,694,366, 9-26-72, Cl. 252-106.000.

Harris Company, Inc.: *See—*
Downing, James H., 3,670,907.

Harris, Daniel M.; Moore, Jack E.; Taylor, Chester E.; and Walczyk, Walter H., to Bunker-Ramo Corporation, The. Printed circuit panel scrubbing apparatus. 3,643,278, 2-22-72, Cl. 15-77.

Harris, Darrell M., to Monsanto Company. Epitaxial deposition method. 3,635,757, 1-18-72, Cl. 117-201.

Harris, David Neil; Hood, Geoffrey Markham; and Sheller, Alan, to Imperial Chemical Industries Limited. Compositions containing vinyl chloride polymers. 3,682,857, 8-8-72, Cl. 260-33.8ua.

Harris, David S., to Owens-Illinois, Inc. Leak detector. 3,683,677, 8-15-72, Cl. 73-49.200.

Harris, Derek Percival: *See—*
McMurtry, David Roberts; and Harris, Derek Percival, 3,666,251.

Harris, Douglas R.: *See—*
Gordy, John; and Harris, Douglas R., 3,703,453.

Harris, Edson Sheppard, Jr.: *See—*
Schuff, Richard William; and Harris, Edson Sheppard, Jr., 3,696,987.

Harris, Elbert E.: *See—*
Brightenback, George E.; and Harris, Elbert E., 3,632,775.

Chamberlin, Earl M.; Harris, Elbert E.; and Zabriskie, John L., Jr., 3,658,846.

Harris, Erik P.; Lean, Eric G.; and Powell, Carl G., to International Business Machines Corporation. Internal modulation of injection lasers using acoustic waves. 3,675,150, 7-4-72, Cl. 331-94.500.

Harris, Everett K.; Ericson, John P.; and Miller, Richard E., to All-Steel Equipment Inc. Method of making a drawer front. 3,643,323, 2-22-72, Cl. 29-511.

Harris, Everett K.; and Beaver, Donald V., to All-Steel Equipment, Inc. Desk tray arrangement. 3,648,849, 3-14-72, Cl. 211-126.

Harris, Ewell J. Pedestrian footwear cleaner. 3,649,994, 3-21-72, Cl. 15-311.

Harris, Frank L.; and Levine, Sidney. Process for anodizing aluminum materials. 3,666,638, 5-30-72, Cl. 204-35.00n.

Harris, Fred T.; and Resler, Edwin L., Jr., to United States of America, Army. Magnetically controlled proportional fluid amplifier. 3,672,387, 6-27-72, Cl. 137-81.500.

Harris, Frederick John: *See—*
Jack, James; Drake, John; Thompson, David Crompton; and Harris, Frederick John, 3,679,391.

Harris, George E.: *See—*
Pearl, David L.; Harris, George E.; Waller, John G.; and Head, Beverly P., Jr., 3,690,986.

Harris, George J.; and Richards, William D., to American Optical Corporation. Two-variable strip chart recorder. 3,681,774, 8-1-72, Cl. 346-62.000.

Harris, Gerald R. Pivotal arm band saw. 3,682,030, 8-8-72, Cl. 83-201.040.

Harris, Glyn I.; and Edwards, Alfred G., to Albright & Wilson Limited, *mesne*. Preparation of epoxylated phenolic resins by reacting polymers from aralkyl ethers and phenols with epihalohydrin. 3,632,555, 1-4-72, Cl. 260-47.

Harris, Gordon L., to Flight Dynamics Research Corporation. Aerodynamic vehicle. 3,664,611, 5-23-72, Cl. 244-42.

Harris, Grady W.; and Sprow, Frank B., to Esso Research and Engineering Company. Upflow coal liquefaction. 3,645,885, 2-29-72, Cl. 208-8.

Harris, Guy H.; Olson, Robert S.; and Wilcox, Robert D., to Dow Chemical Company, The. Preparation of hydroxyalkyl phosphates and polyphosphates. 3,652,743, 3-28-72, Cl. 260-982.

Harris, Harold B.: *See—*
Robins, Jack; and Harris, Harold B., 3,684,597.

Harris, Holton E., to Harrel Incorporated. Temperature control alarm system. 3,636,540, 1-18-72, Cl. 340-228.

Harris, Hugh A. Carpet roll carrier attachment. 3,705,658, 12-12-72, Cl. 214-620.000.

Harris, Jack, 1/2 to Rosenberg, Samuel. Collapsible aquarium. 3,658,035, 4-25-72, Cl. 119-5.

Harris, James A.: *See—*
Arthur, Jett C., Jr.; and Harris, James A., 3,634,018.

Harris, James E.: *See—*
Fickenscher, William E.; and Harris, James E., 3,676,645.

Harris, James J.: *See—*
Hulse, George E.; and Harris, James J., 3,700,639.

Harris, Jesse L., to Owens-Corning Fiberglas Corporation. Apparatus for dissipating foam on molten glass. 3,649,235, 3-14-72, Cl. 65-11.

Harris, Jesse W.: *See—*
Keppler, John E.; and Harris, Jesse W., 3,683,763.

Harris, John L., to Deltrol Corporation. Refrigeration system with delay timing mechanism. 3,640,085, 2-8-72, Cl. 62-158.

Harris, John L.; and Hellman, Robert W., to Del Amo Enterprises, Inc. Life saving equipment. 3,696,453, 10-10-72, Cl. 9-14.000.

Harris, John L., to Deltrol Corporation. Manual preset interval timer with latch holding means for contacts. 3,699,281, 10-17-72, Cl. 200-38.00r.

Harris, Joseph G.: *See—*
Brandt, Oscar E.; and Harris, Joseph G., 3,698,281.

Harris, Joseph P.; and Albrecht, Leonard N. Vote recording construction. 3,652,012, 3-28-72, Cl. 235-50.

Harris, Joseph Warren, to C. R. Industries. Long handled wrench. 3,691,877, 9-19-72, Cl. 81-177.00a.

Harris, Julian Taylor; and Turner, Thomas Adkins, to Fountain City Safety Corporation. Latching warning device for fifth wheel assemblies. 3,697,974, 10-10-72, Cl. 340-275.000.

Harris, Kenneth D. Clamp. 3,701,555, 10-31-72, Cl. 287-110.000.

Harris, Kenneth John, to Harris, Barbara Joan. Space heating apparatus. 3,686,472, 8-22-72, Cl. 219-213.000.

Harris, Lawrence M.: *See—*
Feuersanger, Alfred E.; and Harris, Lawrence M., 3,677,847.

Harris, Le Roy S., to K-G Industries, Inc. Shear and breaker means for briquetting apparatus. 3,677,683, 7-18-72, Cl. 425-314.000.

Harris, Leonard F., to United States Steel Corporation. Apparatus for machining blast furnace hopper ring in place on the furnace. 3,687,007, 8-29-72, Cl. 90-12.000.

Harris, Leroy S., to K-G Industries, Inc. Material compacting apparatus. 3,674,397, 7-4-72, Cl. 425-145.000.

Harris, Lynn C. Waste compressor. 3,683,795, 8-15-72, Cl. 100-53.000.

Harris, Mark: *See—*
Bancroft, James R.; Cleavinger, Richard L.; Hall, James M.; and Harris, Mark, 3,634,691.

Harris, Martin: *See—*
Swimmer, James A.; and Harris, Martin, 3,637,194.

Harris, Max: *See—*
Josephart, David, 3,668,906.

Harris, Max Emerson, to Du Pont de Nemours, E. I., and Company. Helically crimped fibers of poly (trimethylene terephthalate) having asymmetric birefringence. 3,681,188, 8-1-72, Cl. 161-173.000.

Harris, Melvin: *See—*
Abel, Heinz; and Harris, Melvin, 3,687,603.

Gilgien, Heinz; Koegel, Gerhard; and Harris, Melvin, 3,663,157.

Harris, Nicholas D., to Norwich Pharmacal Company, The. Preparation of diethyl tetrahydrofurfurylmalonate. 3,651,096, 3-21-72, Cl. 260-347.5.

Harris, Nicholas D., to Morton-Norwich Products, Inc. Process for preparing 4-hydroxy-6,7-substituted-3-carboalkoxyquinolines. 3,665,005, 5-23-72, Cl. 360-287.

Harris, Norman M. Orthopedic traction apparatus. 3,669,102, 6-13-72, Cl. 128-84.00r.

Harris, Paul Anthony; and Phoenix, Lancelot, to Lucas, Joseph, (Industries) Limited. Speed limiting systems for internal combustion engines. 3,665,903, 5-30-72, Cl. 123-102.000.

Harris, Paul Anthony, to Lucas, Joseph, (Industries) Limited. Battery charging systems. 3,670,229, 6-13-72, Cl. 320-59.000.

Harris, Paul E.; and Mader, George E., to Syracuse University Research Corporation. Large dynamic range coherent radar processor. 3,680,098, 7-25-72, Cl. 343-7.700.

Harris, Rano J., Jr.: *See—*
Harris, Rano J., Sr.; and Harris, Rano J., Jr., 3,641,822.

Harris, Rano J., Sr.; and Harris, Rano J., Jr., 3,641,823.

Harris, Rano J., Sr.; and Harris, Rano J., Jr., 3,677,448.

Harris, Rano J., Sr.; and Harris, Rano J., Jr., 3,707,239.

Harris, Rano J., Sr.; and Harris, Rano J., Jr. Fluid sample injection valve. 3,641,822, 2-15-72, Cl. 73-422.

Harris, Rano J., Sr.; and Harris, Rano J., Jr. Injection device. 3,641,823, 2-15-72, Cl. 73-425.4.

Harris, Rano J., Sr.; and Harris, Rano J., Jr., to Precision Sampling Corporation. Syringe with wire plunger for dispensing infinitesimally small, accurately measured quantities of fluid. 3,677,448, 7-18-72, Cl. 222-387.000.

Harris, Rano J., Sr.; and Harris, Rano J., Jr., to Precision Sampling Corporation. Adapter unit, septum inlet devices and valves. 3,707,239, 12-26-72, Cl. 215-38.00r.

Harris, Raymond. Fishing plug with paired snagless hooks. 3,657,836, 4-25-72, Cl. 43-42.41.

Harris, Richard A.: *See—*
Blitchington, Frank H., Jr.; and Harris, Richard A., 3,647,961.

Campbell, Douglas E.; and Harris, Richard A., 3,671,243.

Harris, Richard A., to Western Electric Company, Incorporated. Apparatus for conveying and exposing a strip of radiant energy sensitive material. 3,677,644, 7-18-72, Cl. 355-96.000.

Harris, Richard Allen: *See—*
Campbell, Douglas Earl; and Harris, Richard Allen, 3,679,310.

Harris, Richard C., Jr., to Brown and Williamson Tobacco Corporation. Tube maker registration control. 3,688,620, 9-5-72, Cl. 83-74.000.

Harris, Richard H.; and Laurer, George J., to International Business Machines Corporation. Actuator for momentary closure of an elastic diaphragm switch. 3,662,138, 5-9-72, Cl. 200-160.

Harris, Richard H., to International Business Machines Corporation. Capacitive coupling switch and actuator. 3,693,059, 9-19-72, Cl. 317-249.00r.

Harris, Richard H.; and Sedaris, Louis H., to International Business Machines Corporation. Elastic diaphragm switch actuator. 3,694,606, 9-26-72, Cl. 200-168.00g.

Harris, Richard H., to International Business Machines Corporation. Catastrophically buckling compression column switch and actuator. 3,699,296, 10-17-72, Cl. 200-67.0db.

Harris, Richard T. Mobile storage box. 3,666,312, 5-30-72, Cl. 296-1.00r.

Harris, Richard William, to Molins Machine Company Limited. Packing or wrapping machine of the mould wheel type. 3,659,694, 5-2-72, Cl. 198-25.

Harris, Richard William. Brakes. 3,680,665, 8-1-72, Cl. 188-134.000.

Harris, Richard William, to Molins Machine Company, Limited. Packing or wrapping machines of the mould wheel type. 3,685,631, 8-22-72, Cl. 198-31.0aa.

Harris, Robert A.; and Harris, Spencer, to Harris-Muff, Inc. Foundry mold ventilation system. 3,631,791, 1-4-71, Cl. 98-115.

Harris, Robert B.; and MacDonald, John A., to Synergetics Research, Inc. Variable frequency infra red source. 3,665,338, 5-23-72, Cl. 331-94.5.

Harris, Robert George, to Amchem Products, Inc. Permanganate silicate cleaner. 3,677,953, 7-18-72, Cl. 252-103.000.

Harris, Robert J.: *See—*
Versoy, Harry N.; and Harris, Robert J., 3,661,624.

Harris, Robert J.; and Lee, Irvin J., to Price, H. C., Co. Method for coating pipe. 3,674,546, 7-4-72, Cl. 117-94.000.

Harris, Robert K.: *See—*
Hand, John W.; Lockwood, Don L.; and Harris, Robert K., 3,704,011.

Harris, Robert L., to General Electric Company. Slaved variable power control. 3,707,682, 12-26-72, Cl. 323-24.000.

Harris, Robert R.; and Kressman, Carl H., to Sherwin-Williams Company, The. Water-soluble polyester resin containing phenylindan dicarboxylic acid. 3,666,698, 5-30-72, Cl. 260-22.00m.

Harris, Roger Stephen: *See—*
Taylor, John Harry; and Harris, Roger Stephen, 3,644,834.

Harris, Roland G.: *See—*
Wolinski, Leon Edward; and Harris, Roland G., 3,649,437.

Harris, Ronald: *See—*
Burdett, Henry S.; and Harris, Ronald, 3,641,786.

Burdett, Henry Sidney; and Harris, Ronald, 3,681,941.

Harris, Ronald D.; and Levine, Leon, to Procter & Gamble Company, The. Process for adsorbent bleaching of edible oils. 3,673,228, 6-27-72, Cl. 260-428.000.

Harris, Ronald E., to North American Rockwell Corporation. Processes using a masking layer for producing field effect devices having oxide isolation. 3,698,966, 10-17-72, Cl. 148-187.000.

Harris, Roy M., to Battelle Development Corporation, The, *mesne*. Device for the extraction of core samples. 3,683,892, 8-15-72, Cl. 128-2.00b.

Harris, Spencer: *See—*
Harris, Robert A.; and Harris, Spencer, 3,631,791.

Harris, Stephen E. Frequency stabilization method and apparatus for parametric amplifiers and oscillators. 3,644,845, 2-22-72, Cl. 331-175.

Harris, Stephen E., to Chromatix, Inc. Tunable acousto-optic method and apparatus. 3,679,288, 7-25-72, Cl. 350-149.

Harris, Stephen O.; and Damon, John F. Polychromatic dye applicator. 3,688,530, 9-5-72, Cl. 68-205.00r.

Harris, Thomas G. Mechanical oxidation of unsaturated polyesters. 3,673,138, 6-27-72, Cl. 260-22.0tn.

Harris, Thomas G., to Armstrong Cork Company. Polyurethane mil-lable gums based on polyesters having unsaturation in both the acid and alcohol portions. 3,703,498, 11-21-72, Cl. 260-75.0nk.

Harris, Thomas L.; Boone, Joyce W.; and Thomas, Allen G. Game having target areas and pieces to be blown toward these areas. 3,661,389, 5-9-72, Cl. 273-95.

Harris, Walter: *See—*
McLaren, James; and Harris, Walter, 3,636,896.

Harris, Walter L.: *See—*
Bright, Charles R.; and Harris, Walter L., 3,702,600.

Harris, Willard V., Jr., to Western Monolithic Concrete Products. Precast fireplace veneer. 3,690,076, 9-12-72, Cl. 52-36.000.

Harris, William C.; and Magnante, Frank A., to United States of America, Air Force. 100 Megahertz bandwidth modulator driver. 3,661,443, 5-9-72, Cl. 350-160.

Harris, William G., Jr., to United States of America, Navy. Mooring line cutter system. 3,701,331, 10-31-72, Cl. 114-221.00a.

Harris-Hub Company, Inc.: *See—*
Harris, Allan E.; and Behnke, Wilbert E., 3,646,623.

Mis, Frank J., 3,683,429.

Harris-Intertype Corporation: *See—*
Adams, Dolor N.; and Fauser, Donald L., 3,669,657.

- Baum, Theodore, 3,656,416.
 Bott, A. Hans, 3,706,039.
 Bradley, Edgar R., 3,648,552.
 Conroy, Thomas P.; Fredrickson, Walter G.; and Thraillkill, Howard A., 3,685,019.
 Crum, James N., 3,701,464.
 Dufour, Charles H., 3,632,104.
 Ferara, James T., 3,648,913.
 Foley, Richard G.; and Murray, James E., 3,671,827.
 Fredrickson, Walter G.; Jones, George M.; and Thraillkill, Howard A., 3,688,275.
 Fredrickson, Walter G.; Heitmann, Albert W.; and Jones, George M., 3,706,075.
 Gallagher, William, Jr.; Kolb, Edwin R.; and Murray, James E., 3,651,723.
 Grobman, William, 3,693,970.
 Hageman, Carlton V.; and Rana, Victoriano F., 3,650,525.
 Hageman, Carlton V.; and Rana, Victoriano F., 3,702,187.
 Harless, Charles A., 3,683,805.
 Hawkes, Richard B.; and Johnson, Donald P., 3,702,129.
 Hawkes, Thomas B.; and Hawkes, Richard B., 3,706,252.
 Henkel, Norman K., 3,699,886.
 Horvath, Robert M., 3,668,685.
 Jenkins, John Paul, 3,645,539.
 Kacmarcik, Thomas J.; and Norton, Robert K., 3,667,663.
 Kolb, Edwin R.; Blaha, John F.; and Roberts, Webster C., 3,643,251.
 Kolb, Edwin R.; Blaha, John F.; and Roberts, Webster C., 3,644,903.
 Kolb, Edwin R., 3,702,949.
 Lew, Dong W.; and Proud, Ralph A., Jr. (said Proud assor. to), 3,638,541.
 Littrell, Luther W., 3,671,706.
 Luehrs, Hans J., 3,631,801.
 Maier, Robert E., Jr.; and Moser, James R., 3,674,258.
 Maier, Robert E., Jr.; McGinnis, Joseph P.; and Simon, Paul R., 3,690,650.
 Mebus, Henry R., 3,692,300.
 Morrison, Walter C., 3,671,361.
 Norman, Charles R., 3,706,298.
 Norton, Robert K., 3,658,220.
 Norton, Robert K., 3,667,753.
 Peterson, Rehn Claus; St. Denis, Robert Alexander; and Steckel, Douglas Thomas, 3,663,008.
 Procter, James F.; Mebus, Henry R.; De Young, Robert J.; and Coviello, Joseph, 3,701,176.
 Richardson, James Ivor, 3,653,322.
 Rosin, Seymour, 3,668,984.
 Rosin, Seymour, 3,687,025.
 Sarka, Albert J., 3,690,199.
 Schriber, Louis, 3,682,468.
 Southam, Donald L.; Weigl, William; and Kacmarcik, Thomas J., 3,691,948.
 Southam, Donald L.; and Kacmarcik, Thomas J., 3,699,887.
 Stanger, Leon J., 3,643,170.
 Stanton, Arthur J.; Kolb, Edwin R.; and Roberts, Webster C., 3,670,632.
 Swanson, Hilmer I., 3,649,911.
 Sylvester, Peter A.; and Wojciechowski, Walter J., 3,701,316.
 Treff, Ernest H., 3,688,696.
 Young, Dorse James, 3,661,277.
 Young, Dorse James, 3,662,636.
 Harris-Muff, Inc.: See—
 Harris, Robert A.; and Harris, Spencer, 3,631,791.
 Harris-Paint Company: See—
 Coffey, Charles A., 3,698,645.
 Harrison, Allen W., to International Paper Company. Tissue and wrapper for dispensing tissues. 3,684,086, 8-15-72, Cl. 206-46.00r.
 Harrison, Alwin: See—
 Jackson, Squire Ronald; Greenwood, Kenneth; Heaton, Alban; and Harrison, Alwin, 3,691,761.
 Harrison, Anthony William, to Girling Limited. Brake disc and hub combination. 3,661,235, 5-9-72, Cl. 188-218.
 Harrison, Arthur: See—
 Jackson, Stewart C.; and Harrison, Arthur, 3,643,340.
 Harrison, Bobby G.; and Esche, Charles D., to Whirlpool Corporation. Frost anticipating bimetal control for an air conditioner. 3,640,087, 2-8-72, Cl. 62-227.
 Harrison, David: See—
 Corbett, William Michael; Harrison, David; and Robertson, Michael Mundie, 3,661,501.
 Harrison, David; and Sainz, Raul T., to Ransburg Electro-Coating Corporation. Method of projecting plural component material upon a suitable base. 3,676,197, 7-11-72, Cl. 117-105.500.
 Harrison, David M., to Allied Chemical Corporation. Yarn forwarding apparatus and process. 3,645,431, 2-29-72, Cl. 226-97.
 Harrison, Derrick Norman: See—
 Zanker, Klaus Joachim; and Harrison, Derrick Norman, 3,668,931.
 Harrison, Donald Keith, to Plessey Handel und Investments A.G. Manufacture of electrode foil for electrolytic capacitors. 3,663,387, 5-16-72, Cl. 204-141.000.
 Harrison, George C., to Minnesota Mining and Manufacturing Company. Pallet with improved joint construction. 3,682,110, 8-8-72, Cl. 108-51.000.
 Harrison, Henry. Ink distributing means comprising a bundle of skewed rollers. 3,687,073, 8-29-72, Cl. 101-350.000.
 Harrison, Henry F., to American Lava Corporation. Dual-etched refractory metallizing. 3,661,635, 5-9-72, Cl. 117-212.
 Harrison, Hugh T.; and Goodwin, Korwin J., to Dow Chemical Company. The. Aqueous hydraulic cement slurry. 3,686,008, 8-22-72, Cl. 106-92.000.
 Harrison, Ian T.: See—
 Fried, John; and Harrison, Ian T., 3,663,713.
 Fried, John H.; and Harrison, Ian T., 3,641,161.
 Harrison, Ian T., to Syntex Corporation. Preparation of 2-(6-methoxy-2-naphthyl)propionic acid, -1-propanol, and propanal and intermediates therefor. 3,651,106, 3-21-72, Cl. 260-429.
 Harrison, Ian T., to Syntex Corporation. β -(6-Methoxy-2-naphthyl)-9-borabicyclo(3,3,1)-nonane. 3,651,149, 3-21-72, Cl. 260-606.5.
 Harrison, Ian T., to Syntex Corporation. 2-(1-Haloethyl)-6-methoxy-naphthalenes. 3,652,683, 3-28-72, Cl. 260-612.
 Harrison, Ian T., to Syntex Corporation. Di-(6-methoxy-2-naphthyl) cadmium. 3,658,858, 4-25-72, Cl. 260-429.
 Harrison, Ian T., to Syntex Corporation. 6-Methoxy-2-naphthyl copper (I). 3,658,863, 4-25-72, Cl. 260-438.1.
 Harrison, Jack Robert, Sr. Face wetter for shaving. 3,648,366, 3-14-72, Cl. 30-41.
 Harrison, James Reneau; and Gilpin, James Wayne, to Texas Instruments, Incorporated. Method of crystal growth by vapor deposition. 3,635,683, 1-18-72, Cl. 23-294.
 Harrison, John, to Spra-Con Company, The. Pusher loading means for conveyors. 3,693,776, 9-26-72, Cl. 198-23.000.
 Harrison, John Ian: See—
 Kennedy, Oswald; and Harrison, John Ian, 3,667,273.
 Harrison, John R. G. Sinkers release for fishing tackle. 3,641,700, 2-15-72, Cl. 43-43.12.
 Harrison, John W.: See—
 Dounoucos, Angelo; and Harrison, John W., 3,664,359.
 Harrison, John William, to Westinghouse Electric Corporation. Bacon cooker. 3,685,434, 8-22-72, Cl. 99-425.000.
 Harrison, Keith W.: See—
 Carpenter, Austin T.; Garrington, Roy; and Harrison, Keith W., 3,658,939.
 Harrison, Lee, III; Honey, Francis J.; Tajchman, Edwin J.; and Bowles, Lloyd W., to Computer Image Corporation. Automatic generation of a mouth display and animation of the mouth in response to sound. 3,662,374, 5-9-72, Cl. 340-324.
 Harrison, Lee, III; Honey, Francis J.; and Tajchman, Edwin J., to Computer Image Corporation. Computer animation generating system. 3,700,792, 10-24-72, Cl. 178-6.800.
 Harrison, Marvin H., to International Minerals & Chemical Corporation. Method for treatment of heavy media. 3,638,791, 2-1-72, Cl. 209-12.
 Harrison, Maurice Clark; and Vancil, Donald Otis, to Reynolds Metals Company. Manufacture of N F/A1F double salt. 3,704,092, 11-28-72, Cl. 423-465.000.
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Hartley, Nelson, 3,677,523.
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Alley, Raymond L.; Hartman, George F., Jr.; and Ewald, John D., 3,668,999.
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Hartman, Elmer C., III, 3,681,607.
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Hartman, Lawrence, 3,652,048.
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Hofmann, Kurt, 3,690,146.
Ruse, Alois, 3,698,159.
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Hackett, Robert H.; Hartmann, Charles D.; and Elias, Brady M., 3,643,362.
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Assmus, Friedrich; Flaig, Hans; Dietrich, Dieter; and Hartner, Leo, 3,644,689.
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Kubsch, Wilhelm, 3,675,400.
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Poe, Lloyd Richard, 3,664,696.
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Engel, Herbert; Hartwig, Karl; and Schnall, Gunther, 3,667,840.
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Morris, Robert J., Jr.; and Hartz, Thomas Jayes, 3,666,138.
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Dahl, Christian W., 3,686,776.
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- Hartzell, Harry F., Jr., to Koppers Company, Inc. Steep slope belt conveyor. 3,647,049, 3-7-72, Cl. 198-192.
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Iijima, Yoo; Shimamura, Isao; Kondo, Tokiharu; and Haruhike, Iwano, 3,674,491.
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Miyama, Hajime; Harumiya, Noriho; Nakao, Mituru; Kimura, Mutsumi; Ito, Isao; and Ohgushi, Katunori, 3,682,800.
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Spiegelman, Solomon; and Haruna, Ichiro, 3,661,893.
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Koshimura, Masamitsu; Haruta, Yukinori; Matsuzaka, Junichi; and Wako, Shinichi, 3,663,599.
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Kawai, Hiroshi; Sinozaka, Osamu; and Haruyama, Tadayuki, 3,666,157.
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Nino, Fernando J.; and Cole, Donald Q., 3,680,348.
- Harvey, Andrew C.: *See*—
Guzdar, Adi R.; Erickson, Alve J.; and Harvey, Andrew C., 3,662,524.
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- Harvey, Dennis G., to Allis-Chalmers Manufacturing Company. Lever actuated disk brake. 3,659,681, 5-2-72, Cl. 188-72.900.
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- Harvey Dental Specialty Company: *See*—
Hendershot, Richard E., 3,650,305.
- Harvey, Don E.: *See*—
Rohrberg, Roderick G.; and Harvey, Don E., 3,678,781.
- Harvey, Donald W.: *See*—
Michatek, Chester W.; and Harvey, Donald W., 3,673,938.
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- Harvey, Donald M., to Eastman Kodak Company. Photographic film-unit assemblage. 3,636,845, 1-25-72, Cl. 95-13.
- Harvey, Donald M., to Eastman Kodak Company. Projector mechanism for maintaining the film area projected on a screen preferably in focus and of a predetermined size. 3,649,113, 3-14-72, Cl. 353-101.
- Harvey, Donald M., to Eastman Kodak Company. Automatic rangefinder. 3,653,762, 4-4-72, Cl. 356-4.
- Harvey, Donald M., to Eastman Kodak Company. Folding camera. 3,665,831, 5-30-72, Cl. 95-39.000.
- Harvey, Donald M., to Eastman Kodak Company. Molded plastic bellows. 3,665,832, 5-30-72, Cl. 95-39.000.
- Harvey, Donald M., to Eastman Kodak Company. Lens housing support linkage for bellows type cameras. 3,668,992, 6-13-72, Cl. 95-39.000.
- Harvey, Donald M.; and McConaughy, Randall T., to Eastman Kodak Company. Sequential control for camera diaphragm and shutter. 3,672,267, 6-27-72, Cl. 95-10.0ce.
- Harvey, Donald M., to Eastman Kodak Company. Photographic apparatus. 3,673,939, 7-4-72, Cl. 95-13.000.
- Harvey, Donald M., to Eastman Kodak Company. Print stripping mechanism. 3,673,940, 7-4-72, Cl. 95-13.000.
- Harvey, Donald M., to Eastman Kodak Company. Compact film-pack camera. 3,677,160, 7-18-72, Cl. 95-40.000.
- Harvey, Donald M., to Eastman Kodak Company. Photographic apparatus. 3,680,453, 8-1-72, Cl. 95-10.0ct.
- Harvey, Donald M., to Eastman Kodak Company. Lap dissolve slide projector. 3,689,140, 9-5-72, Cl. 353-90.000.
- Harvey, Donald M., to Eastman Kodak Company. Film transporting mechanism. 3,691,920, 9-19-72, Cl. 95-13.000.
- Harvey, Donald M.; and Michater, Chester W., to Eastman Kodak Company. Latch and pressure-applying device. 3,693,521, 9-26-72, Cl. 95-13.000.
- Harvey, Donald M., to Eastman Kodak Company. Compact folding camera. 3,693,526, 9-26-72, Cl. 95-39.000.
- Harvey, Donald M., to Eastman Kodak Company. Copying device including radiation sensitive members electrically responsive to the reflected image. 3,699,586, 10-17-72, Cl. 346-74.00e.
- Harvey, Donald M., to Eastman Kodak Company. Print stripping mechanism with self-aligning stripper fingers. 3,703,134, 11-21-72, Cl. 95-13.000.
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- Harvey, Douglas G. Inflatable intravaginal applicator for animals. 3,701,351, 10-31-72, Cl. 128-260.000.
- Harvey, Edwin Dennis; and Lodge, Frank, to Imperial Chemical Industries Limited. Anthraquinone dyestuffs. 3,669,994, 6-13-72, Cl. 260-380.000.
- Harvey, Ernest Albert; and Russ, James Frederick, to American Cyanamid Company. Nitration process for phenolic compounds. 3,668,261, 6-6-72, Cl. 260-622.00r.
- Harvey, Herbert C., Jr., to Tennessee Valley Authority. Green-wood fibrating means and method. 3,674,219, 7-4-72, Cl. 241-152.00r.
- Harvey, James E.; Irland, Max J.; and Lindberg, Victor L., to Ford Motor Company. Glass window structures eliminating Jamin interference fringes. 3,647,285, 3-7-72, Cl. 350-319.
- Harvey, James E., to Eastman Kodak Company. Spot monitor and viewing apparatus for film printing. 3,669,553, 6-13-72, Cl. 356-202.000.
- Harvey, James Edward, to Eastman Kodak Company. Photographic printing apparatus and method for reproducing an original having separate major areas of respectively different densities. 3,694,079, 9-26-72, Cl. 355-77.000.
- Harvey, James R., to Union Carbide Corporation. Curable polyepoxide compositions containing as a polyglycol amine and an alkylene polyamine. 3,645,969, 2-29-72, Cl. 260-47.
- Harvey, James R. Preparation of starch from cellulose treated with phosphoric acid. 3,658,588, 4-25-72, Cl. 127-36.
- Harvey, Joseph-Eric: *See*—
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- Harvey, Kelsey I. Ceramic product from fly ash and method of making same. 3,679,441, 7-25-72, Cl. 106-41.000.
- Harvey, Lawrence, to BP Chemicals Limited. Method and apparatus for feeding pelleted materials. 3,700,140, 10-24-72, Cl. 222-1.000.
- Harvey, Louis A. Gate latch locking device. 3,653,701, 4-4-72, Cl. 292-87.
- Harvey, Mahlon A.; and Stricker, Charles D., to United States Steel Corporation. Method of for gas wiping wire emerging from a hot-dip coating bath. 3,707,400, 12-26-72, Cl. 117-102.00l.
- Harvey, Merlin P.; and Relyea, Douglas I., to Uniroyal, Inc. Process for polymerization of pivalolactone. 3,658,768, 4-25-72, Cl. 260-78.3.
- Harvey, Michael J.: *See*—
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- Harvey, Michel J.: *See*—
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- Harvey, Richard F., to Metaltronics, Inc. Precipitation hardening steel. 3,661,565, 5-9-72, Cl. 75-125.000.
- Harvey, Richard George: *See*—
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- Harvey, Richard P., Jr. Electrical switching apparatus utilizing conductivity of the human skin. 3,705,424, 12-5-72, Cl. 340-365.00r.
- Harvey, Robert Calvin: *See*—
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- Harvey, Robert H., to Esso Research and Engineering Company. Integrated ethylene production and LNG transportation. 3,663,644, 5-16-72, Cl. 260-683.
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Toppins, Charles R.; Harvey, Samuel E.; Liberman, Harvey W.; Ratledge, Houston; and Voorhees, Steven C., 3,696,951.
- Harvey, Wilfred G., Sr., to Globe Rubber Products Corporation. Dispensing device. 3,642,336, 2-15-72, Cl. 312-37.
- Harvey, William R., to Morris, Philip, Incorporated. Isolation of malic acid from tobacco. 3,636,097, 1-18-72, Cl. 260-527.
- Harvey, Wirt T.; and Merritt, John W., to Garrett Corporation, The. Electrofluidic transducer. 3,638,671, 2-1-72, Cl. 137-81.5.
- Harvill, J. D.; and Harlan, Kenneth C., to Wallace-Murray Corporation. Method and die construction for fan blade. 3,664,165, 5-23-72, Cl. 72-168.
- Harvin, Septimus A.: *See*—
Hogg, William J.; Jackson, Charles A.; Harvin, Septimus A.; and Whitesel, Joseph C., 3,695,983.
- Harwald Company, Inc.: *See*—
Bowen, Howard; Henderson, David L.; and Wallace, Richard R., 3,655,945.
- Harwell, Conner J.: *See*—
Siegfried, Edward C.; Harwell, Conner J.; and Murphy, Shields, 3,677,687.
- Harwell, Earnest W. Tension device for wires, straps, and the like. 3,673,642, 7-4-72, Cl. 24-68.00d.
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Christie, Christopher E.; Fedor, James R.; Harwell, Ishmael S.; and Riggs, Robert S., 3,666,598.
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- Harwell, Roy M., Jr. Rotary offset silk screening apparatus with squeegee adjustments. 3,685,442, 8-22-72, Cl. 101-119.000.
- Harwick, Warren J.; and Broome, Joseph Wesley, to Rex Chainbelt Inc. Railway car speed control transportation system. 3,650,216, 3-21-72, Cl. 104-166.
- Harwood, Charles C.; and Holtz, William E., Jr., to Quaker Oats Company, The. Spray discharge nozzle. 3,675,855, 7-11-72, Cl. 239-597.000.
- Harwood, James, to SCM Corporation, mesne. Process for manufacture of symmetrical glycerides. 3,634,473, 1-11-72, Cl. 260-410.7.
- Harwood, James, to SCM Corporation. Esters of glycerol and polyhydric alcohol copolymers useful as emulsifying agents and process for their production. 3,637,523, 1-25-72, Cl. 252-356.
- Harwood, Leopold A. Control system. 3,647,940, 3-7-72, Cl. 178-5.4.
- Harwood, Leopold Albert, to RCA Corporation. Selective tint correction circuits. 3,663,744, 5-16-72, Cl. 178-5.4.
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Harwood, Milton G.; and Harwood, Louis J., 3,704,689.
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- Harwood, Milton G.; and Harwood, Louis J. Deflectable poultry beak appliance. 3,704,689, 12-5-72, Cl. 119-97.00r.
- Harwood, Robert George, to AMP Incorporated. Impedance matching micro-strip connector. 3,643,201, 2-15-71, Cl. 339-17.
- Harwood, William H.: *See*—
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- Harwood, William H., to Continental Oil Company. Electroplating of aluminum. 3,672,965, 6-27-72, Cl. 204-14.00n.
- Harwood, William H.; and Banks, William P., to Continental Oil Company. Removal of molecular halogen from solution by passage through a membrane. 3,673,067, 6-27-72, Cl. 204-180.00p.
- Harwood, William J. Credit card for information verification systems. 3,644,893, 2-22-72, Cl. 340-149.
- Harz, Edward F., to Amsted Industries Incorporated. Expandable arbor assembly. 3,649,036, 3-14-72, Cl. 279-2.
- Harz, Willi, to Hawera Hartmetall-Werkzeugfabrik Gesellschaft mit beschränkter Haftung. Rock drill. 3,687,207, 8-29-72, Cl. 175-410.000.
- Harza, Richard D. Method for disposing of garbage and refuse. 3,650,120, 3-21-72, Cl. 62-62.
- Harza, Richard D. Refuse disposing unit. 3,659,427, 5-2-72, Cl. 62-63.
- Harza, Richard D. Method for garbage disposal. 3,685,309, 8-22-72, Cl. 65-62.000.
- Harza, Richard D. System for completely disposing of refuse. 3,686,889, 8-29-72, Cl. 62-62.000.
- Harzer, Peter, to Goltermann, Wandel u. Variable-frequency generator with digital frequency selection. 3,681,706, 8-1-72, Cl. 331-1.00a.
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Caputo, Jane, 3,681,804.
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Lerner, George; and Ellman, Julius, 3,660,926.
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- Hasbrouck, Augustus; and Lauck, Lawrence J., to United Aircraft Corporation. Blow-in-door actuation for afterburner nozzle. 3,702,681, 11-14-72, Cl. 239-265.370.
- Hasbrouck, Gene B.; and Green, Alan L., to Corry Jamestown Corporation. Drafting table. 3,687,088, 8-29-72, Cl. 108-2.000.
- Hasbrouck, Gene B.; and Green, Alan L., to Corry Jamestown Corporation. Drafting table with improved vertical control mechanism. 3,687,089, 8-29-72, Cl. 108-2.000.
- Hasbrouck, Gene B., to Singer Company, The. Hinge connection for panel and panel combination. 3,695,330, 10-3-72, Cl. 160-135.000.
- Hasbrouck, Thad M., to United Aircraft Corporation. Function generator using fluid amplifiers. 3,667,491, 6-6-72, Cl. 137-81.500.
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Strelow, Alfred; and Hascher, Klaus, 3,664,108.
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Yamashita, Oshio; Yoshida, Manabu; Hasegawa, Nobuo; and Kitamura, Saburo, 3,668,408.
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Imai, Atsuo; Harata, Mituo; Ogawa, Yoshitaka; and Hasegawa, Shoji, 3,671,324.
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Higashide, Eiji; Hasegawa, Toru; Shibata, Motoo; and Mizuno, Komei, 3,655,878.
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Terai, Shiro; Suzuki, Toshio; Hasegawa, Yoshihumi; Horiguchi, Shojiro; Nakamura, Michie; Kimata, Shizuo; and Suzuki, Tadanobu, 3,671,476.
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Kobayashi, Tatsuo; and Hasegawa, Yoshikazu, 3,638,545.
- Hasegawa, Yoshinori: *See*—
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keiichi; Shinoda, Hirotaka; and Hasegawa, Yoshinori, 3,679,730.
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Mitsugi, Koji; Nakase, Takashi; and Hasegawa, Yoshisuke, 3,677,898.
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Thorud, Richard A.; Snegoski, James J.; and Hasenbank, Kenneth N., 3,696,593.
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Arnold, Eugene W.; and Hasenwinkle, Earl D., 3,693,721.
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Dixon, Roy C.; Hash, Larry J.; and Steen, Robert F., 3,633,168.
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Date, Tasuku; and Hashimoto, Eiichi, 3,670,710.
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Maeda, Itsutoshi; Nomura, Yasuichi; Hashimoto, Kohei; Shimizu, Akira; Mitsugi, Koji; and Yoshida, Ryonosuke, 3,707,505.
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Noguchi, Teruhisa; Asada, Mitsuo; Sakimoto, Reiji; and Hashimoto, Koichi, 3,689,547.
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Itano, Kohei; Nakano, Masashi; and Hashimoto, Mitsuru, 3,667,954.
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Morita, Katsura; Hashimoto, Naoto; Morimoto, Shiro; Ando, Yasuo; and Miyashiro, Yutaka, 3,634,488.
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Itoh, Yokichi; and Hashimoto, Norikazu, 3,642,526.
- Sakurai, Yo; Tamura, Teizo; and Hashimoto, Norikazu, 3,656,229.
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Yokoo, Makoto; Keshi, Akizo; Hashimoto, Norishige; and Nakahara, Shigenobu, 3,681,271.
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Yukisada, Toshio; Noma, Takao; Morisawa, Masanori; and Hashimoto, Osamu, 3,662,240.
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Ozawa, Tokuji; Uyeda, Mikio; Hashimoto, Ryosuke; and Suzuki, Shigenori, 3,696,166.
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Strauss, Robert E.; and Hashimoto, Saburo, 3,679,392.
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Masuda, Tetsuo; Kurosawa, Kenjiro; Hashimoto, Takeo; and Izumi, Takahisa, 3,696,730.
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Komata, Toranosuke; Ishihara, Katsumi; and Hashimoto, Yasuo, 3,671,226.
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Inaba, Seiueemon; Shimizu, Kanryo; and Hashimoto, Yoshihiro, 3,668,377.
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Uemura, Saburo; Fuse, Toyohiko; and Hashimoto, Yoshitaka, 3,639,698.
- Uemura, Saburo; and Hashimoto, Yoshitaka, 3,654,397.
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Umezui, Shiro; Hashimura, Tetsuo; and Sekido, Akira, 3,699,299.
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Kikuchi, Takeo; and Hashino, Hisaaki, 3,669,215.
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Miyachi, Kiyoichi; Hashino, Shinsuke; and Hongu, Tomokazu, 3,675,346.
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Deguchi, Masahiro; and Hashirano, Masaru, 3,706,425.
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Akuta, Tomohiko; Seya, Atsumi; and Hashirizaki, Shinya, 3,670,833.
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Akuta, Tomohiko; Honsyo, Yoshi; Hashirizaki, Shinya; Hiruma, Teruo; and Kurasawa, Kazuo, 3,678,192.
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Odenthal, Conrad J.; and Hashizume, George K., 3,694,689.
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Tanaka, Satoru; and Hashimoto, Kazunori, 3,696,110.
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Edwards, Bernard S.; and Haskell, Vernon C., 3,656,993.
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Bonilla, Charles F., 3,645,879.
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Lage, Jaime Richard, 3,661,364.
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Tiffin, James R.; and Trimble, David C., 3,697,126.
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Cronin, Edward W., 3,644,230.
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King, Percy; and Garrett, Howard R., 3,699,743.
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Beaud, Jean-Louis, 3,670,131.
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- Winkler, Erhard; Allemann, Adrian; and Oberholzer, Max, 3,633,196.
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Halliday, William; and Haslett, Roy William George, 3,652,978.
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Alfredsson, Alf Ingvar, 3,645,184.
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Dahlgren, Lennart Gunnar Oskar, 3,698,773.
 Dahlgren, Lennart Gunnar Oskar, 3,703,945.
 Tenne, Lave, 3,691,918.
 Hasselbohm, Sune Sigurd Sixten, to Telefonaktiebolaget L M Ericsson. Terminal block for slot connection of insulated conductors. 3,703,700, 11-21-72, Cl. 339-198.00r.
 Hassell, Howard L., to Shell Oil Company. Block polymer hydrogenation process. 3,644,588, 2-22-72, Cl. 260-879.
 Hassell, J. W., Jr.: See—
 Davis, Russell L., 3,659,838.
 Hassell, Jon M., to Lightyears, Inc. Television activated light display. 3,646,266, 2-29-72, Cl. 178-7.85.
 Hasslerodt, Ulrich: See—
 Grimm, Werner; Hasslerodt, Ulrich; and Olschewski, Karl-Heinz, 3,679,086.
 Hassey, Armando; and Hassey, Gina. Hair curler. 3,653,392, 4-4-72, Cl. 132-41.
 Hassey, Gina: See—
 Hassey, Armando; and Hassey, Gina, 3,653,392.
 Hassinger, Robert J., to Extracorporeal Medical Specialties, Inc. Removable catheter needle. 3,677,244, 7-18-72, Cl. 128-214.400.
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 Hasslinger, Robert L.: See—
 Myer, Jon H.; Hasslinger, Robert L.; and Webster, Francis P., 3,663,800.
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 Hasson, Harrieth M., to Hollister Incorporated. Gynecological instrument. 3,706,307, 12-19-72, Cl. 128-2.00s.
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 Hastie, Austin: See—
 Hastie, Willard A.; and Hastie, Austin, 3,672,481.
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 Hastings, Patrick, 3,631,796.
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 Aue, Walter A.; and Hastings, Corazon R., 3,666,530.
 Hastings, Donald M., Sr. Safety razor blade. 3,654,701, 4-11-72, Cl. 30-346.56.
 Hastings Fiber Glass Products, Inc.: See—
 McMullin, Earl W., 3,666,311.
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 Alexander, Willis; and Shaltis, Robert J. (said Shaltis assor. to), 3,645,402.
 Quinlan, William J.; and Huver, Lawrence L., 3,696,497.
 Shaltis, Robert J., 3,695,437.
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 Hastings, William J.: See—
 Waldron, Linwood J.; and Hastings, William J., 3,659,913.
 Hasty, Charles E.: See—
 Kurzweil, Fred, Jr.; Prentky, Peter I.; and Hasty, Charles E., 3,632,900.
 Hasui, Katuyuki: See—
 Kumura, Teruhiko; Imataki, Norio; Hasui, Katuyuki; Inoue, Takeo; and Yasutomi, Kimiaki, 3,650,704.
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 Hasuo, Masayoshi: See—
 Iwasaki, Koichiro; Yamaguchi, Kazuo; Kimura, Harutaka; Hasuo, Masayoshi; and Tanaka, Toru, 3,674,764.
 Haswell, John M. Post partum blood loss receptacle. 3,646,938, 3-7-72, Cl. 128-292.

Haswell, Walter T., III: See—
 Haswell, Walter T., III; Hockenberry, Terry O.; and Williams, Everard M., 3,663,787.
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 Hatada, Masamichi: See—
 Nozawa, Shunichi; Kuroi, Hisashi; Hatada, Masamichi; and Fukuyama, Shunsaku, 3,701,925.
 Hatada, Yasutaka: See—
 Usamoto, Teruyoshi; Hatada, Yasutaka; Furuichi, Itsuro; and Matsuo, Masao, 3,706,819.
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 Mitsui, Nobuo; Hatakeyama, Takanobu; and Komuro, Katsu, 3,687,235.
 Hatakeyama, Toshikatsu: See—
 Usui, Yoshito; Shiojima, Kenji; and Hatakeyama, Toshikatsu, 3,671,891.
 Hatamoto, Kazutaka: See—
 Yamamoto, Kiyokazu; Kishimoto, Masaru; Ueno, Susumu; Fujimoto, Hiroshi; Hatamoto, Kazutaka; and Kubota, Tadashi, 3,641,653.
 Hatanaka Chemical Industry Co., Ltd.: See—
 Matsubara, Tsuneji, 3,635,353.
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 Fujino, Masahiko; Hatanaka, Chitoshi; Nishimura, Osamu; and Sanno, Yasushi, 3,651,039.
 Hatanaka, Tsutomu: See—
 Tada, Fusao; Inamine, Seiei; and Hatanaka, Tsutomu, 3,674,897.
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 Abe, Isamu; Yashiro, Hideo; Sori, Naoyuki; Hatano, Sotaro; Katsumoto, Tomiyasu; and Suzuki, Tadao, 3,670,395.
 Hatano, Tadao: See—
 Hara, Hikoharu; Ohi, Reichi; Sugiyama, Masatoshi; and Hatano, Tadao, 3,642,481.

Hara, Hikoharu; and Hatano, Tadao, 3,652,277.
 Yamamoto, Nobuo; Hatano, Tadao; Shimamura, Isao; and Iwano, Haruhiko, 3,695,883.
 Hatat, Kazumi: See—
 Kodama, Hisashi; Sekigawa, Tsuneo; Hatat, Kazumi; and Nakaya, Akimichi, 3,702,538.
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 Hataya, Humio: See—
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 Hataya, Yukio: See—
 Sawairi, Hitoshi; Kurihara, Yoshio; Takahashi, Kazuhiko; Hayakawa, Yoshihiko; and Hataya, Yukio, 3,702,968.
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 Hatch, Alan R.: See—
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 Hatch, Clifford V. Temperature controlled water dispensing device for animals. 3,691,997, 9-19-72, Cl. 119-71.000.
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 Froebe, Ronald L.; and Hatch, Howard H., 3,704,436.
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 Jones, Giffin D.; Geyer, Gerald R.; and Hatch, Melvin J., 3,686,279.
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 Hatco Corporation: See—
 Hatch, Kenneth G., 3,636,308.
 Hatfield, John Rawson: See—
 United States of America, National Aeronautics and Space Administration, 3,699,511.
 Hatfield, Lowell D.: See—
 Foster, Bennie J.; Gutowski, Gerald E.; and Hatfield, Lowell D., 3,668,202.
 Hatfield, Paul E.: See—
 Allison, Robert J.; Hatfield, Paul E.; and Frummerman, Robert, 3,669,623.
 Hathaway, Charles T. Plate graining apparatus. 3,648,412, 3-14-72, Cl. 51-61.
 Hathaway Instruments, Inc.: See—
 Bright, James A.; and Wilson, Craig L., 3,684,964.
 Chamberlain, Harold B., 3,652,964.
 Fox, Dean H., 3,652,963.
 Hathaway, Milton R., Jr. Pickup truck and trailer passageway device. 3,638,991, 2-1-72, Cl. 296-23.
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 Swain, William W.; and Hathaway, Richard A., 3,660,614.
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 Hatley, Elbert Troy: See—
 Benson, Allen B.; and Hatley, Elbert Troy, 3,665,513.
 Hatley, Fred J. Card game board and card-holding means. 3,635,478, 1-18-72, Cl. 273-148.
 Hatori, Minoru: See—
 Koga, Koichi; Hatori, Minoru; and Akamatsu, Takashi, 3,671,543.
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 Fukasawa, Noburu; and Hatori, Yukiyo, 3,675,227.
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 Hatsutori, Masafumi: See—
 Komatsu, Youji; Tamura, Takeshi; Fujii, Kinya; and Hatsutori, Masafumi, 3,665,034.
 Hatton, Barry: See—
 Davies, Walter J.; Hatton, Barry; Boyd, George C.; and Hanlan, Harvey E. W., 3,704,676.
 Hatton, Jay T. Blower attachment for reel type lawn mower. 3,665,687, 5-30-72, Cl. 56-12.9.
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 Hatton, Richard L., to Precision Paper Tube Company. Variable inductor and method. 3,707,693, 12-26-72, Cl. 336-136.000.
 Hattori, Atsushi: See—
 Ishibashi, Keiji; Okaniwa, Tokio; Hattori, Atsushi; and Arai, Masatoshi, 3,702,805.
 Hattori, Hiroshi: See—
 Mitsukawa, Konosuke; Hattori, Hiroshi; Hikoda, Toyohiko; and Masubuchi, Yoshinori, 3,669,792.
 Hattori, Hiroyuki: See—
 Komori, Shigehiro; and Hattori, Hiroyuki, 3,675,999.
 Komori, Shigehiro; and Hattori, Hiroyuki, 3,677,222.
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 Boyer, William M.; and Hattori, Kiyoshi, 3,654,219.
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 Hattori, Michio: See—
 Ikeda, Yoneichi; Hattori, Michio; and Kiyomiya, Yutaka, 3,649,179.
 Ikeda, Yoneichi; Takeda, Tsukasa; Hattori, Michio; Kiyomiya, Yutaka; and Yamamoto, Takashi, 3,694,322.
 Hattori, Tatsuaki: See—
 Imoto, Saburo; Ikari, Kyoichiro; Mori, Hirosaburo; and Hattori, Tatsuaki, 3,650,805.

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Tanaka, Akira; Hattori, Tsuyoshi; Anno, Hiroto; and Kawahara, Testuyo, 3,673,283.
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Magee, Edward F.; and Haube, Stephen G., 3,665,086.
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Davidson, Arthur R.; Haubner, John E.; and White, George A., 3,642,495.
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- Hauck, Edgar: *See*—
Zieg, Wilhelm; Schmidt, Georg; Hauck, Edgar; Massell, Ingo; and Greubel, Gustav, 3,635,111.
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Price, William Chandler; Hauck, Erwin A.; and Vigil, Jacob F., 3,693,161.
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Narayanan, Venkatachala Lakshmi; Hauck, Frederic Peter; and Weisenborn, Frank Lee, 3,642,869.
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Buzby, Robert Y.; Hammang, John T.; Hudak, Ronald A.; and Osvold, Harry C., 3,632,146.
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Beck, Fritz; Himmele, Walter; Haufe, Juergen; and Brunold, Andreas, 3,652,430.
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Widder, Rudi; Distler, Harry; and Haug, Erwin, 3,664,864.
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Reuss, Guenter; Engelbach, Heinz; and Haug, Juergen, 3,651,160.
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Edwards, James B.; and Haug, Warren R., 3,676,152.
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Benson, Sidney W.; Haugen, Gilbert R.; and Jackson, Roland S., 3,647,387.
- Haugen, John M. Negative container. 3,651,983, 3-28-72, Cl. 220-31.
- Haugen, Leif Gunnar: *See*—
Holtermann, Hugo; Haugen, Leif Gunnar; and Wille, Knut, 3,637,824.
- Salvesen, Sigbjorn; Haugen, Leif Gunnar; Haavaldsen, Johan; and Nordal, Vegard, 3,702,866.
- Haugen, Ronald L.: *See*—
Dussourd, Jules L.; and Haugen, Ronald L., 3,696,588.
- Hauger, John H.: *See*—
Conroy, Robert E.; and Hauger, John H., 3,668,704.
- Haugh, Clarence G.: *See*—
Johnson, Paul E.; Haugh, Clarence G.; Warren, George F.; and Kratky, Bernard A., 3,648,409.
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Bortz, Seymour A.; Shipley, Linden E.; and Haughwout, Lefferd B., 3,689,614.
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- Hauk, Klaus: *See*—
Barth, Hubert; and Hauk, Klaus, 3,635,493.
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Chace, Richard L.; and Haun, Burton O., 3,702,983.
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- Haun, John W.: *See*—
Hoyt, Charles T.; Haun, John W.; Hensel, Dwight L.; Hansen, Clarence M.; Lovely, Walter G.; and Bruhn, Hjalmar D., 3,671,077.
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Dogl, Ernst; Funck, Albrecht; Wellach, Dieter; and Winkler, Hans-Georg, 3,672,373.
- Goldbach, Manfred, 3,665,932.
- Heitmann, Bob, 3,690,327.
- Kochalski, Horst; Rudszinat, Willy; David, Harry; Erdmann, Otto; Rode, Ludwig; and Suck, Hans, 3,662,880.
- Richter, Willy, 3,645,273.
- Rudszinat, Willy; and David, Harry, 3,685,633.
- Schubert, Bernhard; Schubert, Alfred; and Berlin, Herbert, 3,664,891.
- Wahle, Gunter; and Kasperek, Alois, 3,672,522.
- Wahle, Gunter, 3,687,316.
- Wochnowski, Waldemar; and Friebel, Heinz, 3,655,043.
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McCoy, Charles S.; and Haunschild, Willard M., 3,650,944.
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Brockmuller, Friedrich Franz; and Haupt, Karl, 3,637,093.
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Korb, Eugene V.; and Haupt, Robert C., 3,667,563.
- Scheinkoenig, Robert J.; and Haupt, Robert C., 3,700,259.
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Marshall, Edwin L.; Bocian, Harvey; and Hauptman, Neil L., 3,702,027.
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- Hauptmann, Gunter: *See*—

- Moller, Friedrich; Hauptmann, Gunter; and Patzelt, Heinz-Wolfgang, 3,694,510.
- Hauptmann, Heinz: *See*—
Weber, Karl-Heinz; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Hauptmann, Karl Heinz, 3,707,539.
- Hauptmann, Karl Heinz: *See*—
Weber, Karl-Heinz; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Hauptmann, Karl Heinz, 3,684,798.
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Weber, Karl-Heinz; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Hauptmann, Karl Heinz, 3,684,798.
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- Haury, Vernon E.: *See*—
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- Hause, James R.: *See*—
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- Hauser, Abel: *See*—
Jacobi, Hans-Rudolf; Hauser, Abel; and Hoffmann, Manfred, 3,642,974.
- Hauser, Alfred: *See*—
Sennwald, Kurt; Hauser, Alfred; and Lork, Winfried, 3,647,867.
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- Hauser, Henry A.: *See*—
Morrison, William F.; and Hauser, Henry A., 3,677,715.
- Hauser, Kenneth L.: *See*—
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- Muszumanski, Trude; and Kurz, Gunter, 3,694,056.
- Pammer, Gottfried; and Walz, Karl, 3,666,206.
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Lysaght, Michael J.; and Hausslein, Robert W., 3,684,580.
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- Hausweiler, Arnold: *See*—
Hagedorn, Ferdinand; Wedemeyer, Karlfried; Scherhag, Bernhard; and Hausweiler, Arnold, 3,686,194.
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Weaver, Merle L.; and Hautala, Earl, 3,669,685.
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Koepp, Ronald L.; and Havas, Janos, 3,663,277.
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Guenther, Karl R.; and Havekost, Donald G., 3,655,608.
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- Havens, Richard Calvin, to Motorola, Inc. Electrically and mechanically tunable microwave power oscillator. 3,688,219, 8-29-72, Cl. 331-107.00r.
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Carlson, Arthur, Jr., 3,699,219.
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Van Brakel, Russel A., 3,643,275.
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- Haverkamp, Klaus Dieter: *See—*
Kraemer, Friedrich; Mandel, Jörn; Mayer, Siegfried; Rohrig, Klaus; Schulz, Hans-Peter; Weidenmüller, Hilmar; Haverkamp, Klaus Dieter; and Motz, Jürgen, 3,664,826.
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Haviland, James B., Jr.; and Balkema, Charles R., 3,661,481.
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Davison, Ellard D., Jr.; and Haviland, Merrill L., 3,686,973.
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Horatschke, Rudolf; Holy, Zdenek; Havlas, Jiri; Kostecky, Premysl; and Rejnart, Vlastimil, 3,643,990.
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Hudson, Allan C.; Kinnear, John M.; and Havstad, Harold R., 3,643,660.
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Nickell, Louis G., 3,660,072.
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Harz, Willi, 3,687,207.
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- Hawes, Edward L. Emergency sign assembly. 3,672,323, 6-27-72, Cl. 116-28.
- Hawes, James D., to Tektronix, Inc. Cathode ray tube having auxiliary deflection plate to correct pincushion distortion. 3,670,199, 6-13-72, Cl. 315-13.00r.
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Donninger, Cyril; Schofield, John A.; and Hawes, John E., 3,701,779.
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George, Kenyon P.; and Hawes, Roland C., 3,707,331.
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Hawes, Roland J., Jr.; and Daniel, Milton P. (said Daniel assor. to said), 3,670,923.
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- Hawk, George W.; Geyer, Lewis H.; Mastropole, Alfred J.; and Garmjost, Kenneth D., to Moog Inc. Secondary injection thrust vector control. 3,646,762, 3-7-72, Cl. 60-204.
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Bonney, Kenneth Victor, 3,698,664.
- McRae, David Milwain; and Watt, Andrew Douglas, 3,695,558.
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Doel, R. Garth; Bricknell, William H.; and Osipenko, Stephen, 3,643,712.
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Bloomer, David John, 3,694,632.
- Bodine, Albert G., 3,700,888.
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- Hawkes, Ivor; and Swithenbank, Joshua. Gas burners. 3,695,820, 10-3-72, Cl. 431-354.000.
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O'Shea, Ronald J.; Haase, Bernd W.; and Hawkins, Albert W., 3,656,271.
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- Hawkins, Edwin George Edward: *See—*
Capp, Clifford William; Harris, Brian Walton; and Hawkins, Edwin George Edward, 3,676,430.
- Hawkins, Edwin George Edward, to BP Chemicals (U.K.) Limited. Production of caprolactam. 3,654,268, 4-4-72, Cl. 260-239.3.
- Hawkins, Frank H.: *See—*
Hedrick, Geoffrey S.; Hawkins, Frank H.; and Van Os, William, 3,662,535.
- Hawkins, Gordon L.: *See—*
Totah, Raymond P.; Hawkins, Gordon L.; Soo, Peter H.; and Wolfe, George, Jr., 3,654,000.
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- Hawkins, Harold V.; Dick, Ralph A.; and Bongort, Edgar A., to Columbus McKinnon Corporation. Pendant hoist control device. 3,654,415, 4-4-72, Cl. 200-168.
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- Hawkins, John Charles, to Rubery, Owen & Co. Limited. Fastening means for the doors of freight containers, transport vehicles and the like. 3,653,704, 4-4-72, Cl. 292-218.
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Hawkins, Roy I., 3,684,032.
- Hawkins, Paul Maddison, to General Alarm Corporation. Apparatus for forming a wiring system. 3,639,193, 2-1-72, Cl. 156-433.
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Brown, Philip; and Hawkins, Peter, 3,641,955.
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Ffowces-Williams, John Eirwyn; Hawkins, Roy; Dawson, Hylton; and Smith, William, 3,706,353.
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- Hawkins, William M., to Hercules Incorporated. Digital to analog converter. 3,705,399, 12-5-72, Cl. 340-347.0da.
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Hale, Everett W.; Hawkinson, Paul H.; and Robbeloth, Edward T., 3,672,653.
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- Hawley, George F.; and Buettner, John H., to Ivanhoe Research Corporation, mesne. Methods and apparatus for automatically transferring and registering fabric workpieces and for combining them. 3,664,657, 5-23-72, Cl. 270-58.
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Gerber, Reinhold; Kerrigan, James Edward; and Hawley, Harry Ray, 3,676,543.
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- Hawley, John D.: *See—*
Smith, William M.; Norton, Thomas W.; and Hawley, John D., 3,661,085.
- Hawley Manufacturing Corporation: *See—*
Overmyer, Robert C.; and Scheel, John R., 3,698,137.
- Overmyer, Robert C.; and Nordman, Adolph J., 3,705,545.
- Hawley Products Company: *See—*
Stewart, John S., 3,676,278.
- Hawley, Robert L.: *See—*
Hoer, Ralph A.; Frederiksen, Christopher W.; and Hawley, Robert L., 3,694,221.
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- Hawryluk, John: *See—*
Hawryluk, Alexandra S.; and Hawryluk, John, 3,675,396.
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Wright, Allen C., 3,642,031.
- Haws, John F. Apparatus for erecting poured concrete structures. 3,659,977, 5-2-72, Cl. 425-62.
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Buchanan, Wilbert Bernard; and Haws, Leon, 3,704,458.
- Hawthorne, John O.; and Mihelic, Edward L., to United States Steel Corporation. N-substituted 2-aminomethyl-2'-biphenyl-carboxylic acid and derivatives. 3,668,232, 6-6-72, Cl. 260-471.00a.
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- Hawthorne, Vaughn T. Air brake hose coupler gasket. 3,680,875, 8-1-72, Cl. 277-171.000.
- Hawthorne, Vaughn T., to Keystone Industries, Inc. End-of-car impact absorbing device. 3,682,324, 8-8-72, Cl. 213-8.000.
- Hawthorne, Vaughn T. Railroad car air brake failure indicator. 3,691,982, 9-19-72, Cl. 116-70.000.
- Hawthorne, Vaughn T. Interlocking coupler. 3,698,571, 10-17-72, Cl. 213-153.000.
- Hawthorne, Vaughn T., to Keystone Industries, Inc. Hopper car door lock. 3,707,306, 12-26-72, Cl. 292-113.000.
- Hawthorne, William C. Apparatus and methods for feeding sheets of material from stacks with one side in vertical registration. 3,677,537, 7-18-72, Cl. 271-29.000.
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- Hawyer, Ira M. Weighing scale assembly. 3,679,011, 7-25-72, Cl. 177-134.000.
- Hay, Allan S., to General Electric Company. 4-Phenyl 2-(2'-hydroxy-methyl-terphenyl-5'-yl)-dibenzofuran and 4,4'-diphenyl-2,2'-bibenzofuran. 3,673,219, 6-27-72, Cl. 260-346.20m.
- Hay, Charles N., to General Motors Corporation. Combination hydraulically and mechanically actuable disc brake with hydraulic wear adjustment. 3,643,763, 2-22-72, Cl. 188-71.8.
- Hay, Charles N., to General Motors Corporation. Adjustable self-aligning bearing mount. 3,700,298, 10-24-72, Cl. 308-194.000.
- Hay, Donald A.: *See—*
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- Finlay, Walter L.; Fisher, Henry J.; and Hay, Donald A., 3,677,745.
- Hay, Henry: *See—*
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- Hay, John A.; and Johnson, Donald W., to Fuller Laboratories, Inc. Disposable speculum for animals. 3,631,852, 1-4-72, Cl. 128-3.
- Hay, Leon: *See—*
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- Hay, Robert R., to Hewlett-Packard Company. Frequency measuring system utilizing means for momentarily stopping the variable frequency generator. 3,643,126, 2-15-72, Cl. 315-26.
- Hay, Russell G.: *See—*
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- Hay, Russell G.; McNulty, John G.; and Walsh, William L., to Gulf Research & Development Company. Esterification of carboxylic acids with organic halides in the presence of water. 3,634,474, 1-11-72, Cl. 260-410.9.
- Hay, Russell G.; McNulty, John G.; and Walsh, William L., to Gulf Research & Development Company. Process for converting trialkyl aluminums to aluminum alkoxides. 3,641,086, 2-8-72, Cl. 260-448.
- Hay, Russell G.; McNulty, John G.; and Walsh, William L., to Gulf Research & Development Company. Reaction of a dialkyl ether with HCl or HBr in the presence of an organic acid. 3,644,546, 2-22-72, Cl. 260-657.
- Hay, Russell G.; McNulty, John G.; and Walsh, William L., to Gulf Research & Development Company. Process for converting trialkylaluminum compounds to aluminum alkoxides. 3,651,131, 3-21-72, Cl. 260-448.
- Hay, Russell G.; Murphy, Clarence R.; and Walsh, William L., to Gulf Research & Development Company. Hydrobromination of alpha-olefins with prior air-blowing. 3,683,037, 8-8-72, Cl. 260-663.000.
- Hay, Russell G.; McNulty, John G.; and Walsh, William L., to Gulf Research & Development Company. Process for preparing esters. 3,686,274, 8-22-72, Cl. 260-475.00r.
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 Hay, Wayne W., to Airco, Inc. Heated vaporizer anesthesia machine. 3,703,172, 11-21-72, Cl. 128-188.000.
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 Izumitani, Tetsuro; and Toda, Seiichi, 3,656,976.
 Hayakawa Denki Kogyo Kabushiki Kaisha: See—
 Yamazaki, Toshio; Abu, Takao; Sato, Takefumi; Nishida, Koji; and Okamoto, Tosiaki, 3,652,133.
 Hayakawa, Fumio: See—
 Maeda, Hiroshi; Hasegawa, Koichi; Sekiguchi, Hisashi; and Hayakawa, Fumio, 3,691,228.
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 Hayakawa, Ken: See—
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 Hayakawa, Ken; and Tamada, Mitsuaki, to Tokico Ltd. Discrimination card for card reader. 3,652,829, 3-28-72, Cl. 235-61.12.
 Hayakawa, Masahiro, to Amada Co., Limited. Work start synchronizer in plural press brakes coupling operation. 3,680,339, 8-1-72, Cl. 72-28.000.
 Hayakawa, Masatoshi: See—
 Hashimoto, Yoshiaki; and Hayakawa, Masatoshi, 3,665,812.
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 Hayakawa, Yoshihide; Kawano, Hideo; and Kato, Hirotetu, to Fuji Photo Film Co., Ltd. Direct positive silver halide photographic light-sensitive elements. 3,656,961, 4-18-72, Cl. 96-108.
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 Hayakawa, Yoshihiro: See—
 Onishi, Akira; Anzai, Shiro; Irako, Koichi; Fujio, Ryota; Hayakawa, Yoshihiro; Kojima, Minoru; and Kawamoto, Hiroshi, 3,644,314.
 Onishi, Akira; Irako, Koichi; Hayakawa, Yoshihiro; Shimomura, Takeshi; Iwami, Koichi; and Miyamoto, Shoji, 3,660,365.
 Hayakawa, Yoshizide: See—
 Sato, Masamichi; Matsumoto, Seiji; Honjo, Satoru; and Hayakawa, Yoshizide, 3,689,768.
 Hayakawa, Yosikazu: See—
 Matsui, Shonji; Hayakawa, Yosikazu; and Hirashima, Kenzo, 3,687,486.
 Matsui, Shunji; Hayakawa, Yosikazu; and Hirashima, Kenzo, 3,689,105.
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 Hayami, Seinoshin: See—
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 Hayami, Tadao, to Kabushiki Kaisha Kōparu. Device for selectively switching-over the speed of feeding film in motion picture projector. 3,666,357, 5-30-72, Cl. 352-180.000.
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 Hayanami, Hiroshi: See—
 Nagoshi, Kazuo; and Hayanami, Hiroshi, 3,645,668.
 Hayasaka, Enakichi. Homopole-type AC generator. 3,668,447, 6-6-72, Cl. 310-166.
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 Hayase, Joshua Y.: See—
 Blasbalg, Herman L.; Hayase, Joshua Y.; Crutchfield, Richard C., Jr.; and Najjar, Hann F., 3,700,820.
 Hayase, Masashi: See—
 Edge, Andrew F.; and Hayase, Masashi, 3,665,138.
 Hayase, Yoshiaki: See—
 Tsuchida, Takashi; Hayase, Yoshiaki; and Fujisawa, Yoshirou, 3,674,561.
 Hayase, Yoshio: See—
 Nagata, Wataru; and Hayase, Yoshio, 3,673,284.
 Hayash, Edward F., Jr.; Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., to Upjohn Company, The. Cellular polyoxazolidinone elastomers from polyisocyanates and polyepoxides. 3,673,128, 6-27-72, Cl. 260-2.500.
 Hayashi, Akifumi: See—
 Sota, Kaoru; Hayashi, Akifumi; and Amano, Takehiro, 3,683,005.
 Hayashi, Chusaku, to Hayashi Seisakusha Co., Ltd. Motor control circuit for pad holder. 3,641,412, 2-8-72, Cl. 318-470.
 Hayashi, Etsuo: See—
 Yoshikawa, Kengi; and Hayashi, Etsuo, 3,704,048.
 Hayashi, Hideaki: See—
 Matsuda, Hitoshi; Hayashi, Hideaki; Araki, Tetsuro; and Kooa, Shinichi, 3,689,079.
 Umeda, Saburo; Kizuka, Tokio; Iwai, Kiyoshi; Tsunoda, Susumu; and Hayashi, Hideaki, 3,648,945.
 Hayashi, Hiroaki: See—
 Chiku, Takewo; Ninomiya, Kiyoshi; and Hayashi, Hiroaki, 3,707,589.
 Hayashi, Hiroyuki: See—
 Obuchi, Satoru; Fukuoka, Tokuji; Nagato, Saburo; Murakami, Kunio; Shigeta, Tamikazu; and Hayashi, Hiroyuki, 3,682,687.
 Hayashi, Ikuo: See—
 Suzuki, Yoshiji; Hayashi, Ikuo; Karasawa, Kazuo; and Shimada, Mitsuhiro, 3,700,953.
 Hayashi, Isao, to Hayashi Telempu Co., Ltd. Manufacturing of sun-visors or glare shields for motor vehicles. 3,655,849, 4-11-72, Cl. 264-98.
 Hayashi, Izjo, to Bell Telephone Laboratories, Incorporated. Double heterostructure laser diodes. 3,691,476, 9-12-72, Cl. 331-94.500.
 Hayashi, Jun: See—
 Nagae, Tadashi; Oishi, Yasushi; and Hayashi, Jun, 3,640,716.
 Nagae, Tadashi; Oishi, Yasushi; and Hayashi, Jun, 3,706,556.
 Hayashi, Juntaro: See—
 Ikuo, Yoriko; Okabayashi, Minoru; Ono, Keisuke; Mizugaki, Yoshikazu; and Hayashi, Juntaro, 3,674,129.
 Hayashi, Katsumi: See—
 Ohkubo, Kinji; and Hayashi, Katsumi, 3,663,227.
 Ohkubo Kinji; Hayashi, Katsumi; and Sano, Kazuya, 3,676,124.
 Hayashi, Kimiaki: See—
 Watanabe, Toshio; Tsukamoto, Goro; Hayashi, Kimiaki; Sato, Masanori; and Iwasawa, Yoshio, 3,647,799.
 Hayashi, Kiyohide: See—
 Adachi, Toshio; Onishi, Masayoshi; and Hayashi, Kiyohide, 3,671,655.
 Adachi, Toshio; Hayashi, Kiyohide; and Okura, Yukio, 3,700,026.
 Hayashi, Koichiro: See—
 Ito, Akihiko; Nakase, Yoshiaki; Kojima, Katsumi; Yoshida, Masaru; Iwai, Tadashi; Hayashi, Koichiro; and Okamura, Seizo, 3,677,922.
 Ito, Akihiko; Yoshida, Masaru; Nakase, Yoshiaki; Iwai, Tadashi; Miura-Gun, Kanagawa-Ken; Hayashi, Koichiro; and Okamura, Seizo, 3,684,767.
 Ito, Akihiko; Nakase, Yoshiaki; Yoshida, Masaru; Sakamoto, Masahiro; Kaetsu, Isao; Iwai, Tadashi; Hayashi, Koichiro; and Okamura, Seizo, 3,686,085.
 Nakase, Yoshiaki; Yoshida, Masaru; Ito, Akihiko; Iwai, Tadashi; Hayashi, Koichiro; Okamura, Seizo; and Kojima, Katsumi, 3,703,454.
 Okamura, Seizo; Hayashi, Koichiro; and Nakayama, Yasuharu, 3,642,723.
 Hayashi, Kuniomi: See—
 Kikuchi, Makoto; and Hayashi, Kuniomi, 3,634,974.
 Hayashi, Masaaki: See—
 Furuya, Akio; Hayashi, Masaaki; Nagami, Kouichi; Uchida, Masakatsu; Nishino, Sakae; Asada, Toshikatsu; Nagao, Yasuo; Matsuda, Hiroyoshi; and Tsuchiya, Harufumi, 3,689,446.

Niwa, Shohei; Oki, Kazuo; Hayashi, Masaaki; and Morimoto, Yuukichi, 3,689,679.
 Hayashi, Masaharu, to Aisin Seiki Kabushiki Kaisha. Fan assembly. 3,642,382, 2-15-72, Cl. 416-169.
 Hayashi, Masahiro: See—
 Sueda, Hideo; Yamawaki, Takeshi; Kida, Keiichi; Hayashi, Masahiro; Endo, Kazuo; and Kaneko, Mamoru, 3,639,553.
 Taniguchi, Tetsuji; Fukui, Kakichi; Imai, Shiro; Hayashi, Masahiro; and Seki, Koichi, 3,678,722.
 Hayashi, Masahiro; Seki, Koichi; and Chinbe, Hiroshi, to Hitachi, Ltd. Integral bearing mounting and dismounting apparatus. 3,689,126, 9-5-72, Cl. 308-207.000.
 Hayashi, Masayuki; and Yamane, Mitsunori, to Mitsubishi Denki Kabushiki Kaisha. Pulse generator. 3,651,438, 3-21-72, Cl. 335-207.
 Hayashi, Naonori: See—
 Akeyoshi, Kazuyuki; and Hayashi, Naonori, 3,694,897.
 Hayashi, Noburo; Katsumi, Mamoru; Ogata, Yuzuru; Arai, Sumio; Kurita, Yoshiaki; and Inamori, Yoshihiro, to Kao Soap Co., Ltd. Process for preparing amphoteric surface active agents. 3,639,468, 2-1-72, Cl. 260-534.
 Hayashi, Roshio: See—
 Miyake, Yasuhiko; Takayanagi, Eifu; Narita, Shigeo; Shin, Masaaki; Hayashi, Roshio; and Sakurai, Koichi, 3,676,053.
 Hayashi Seisakusha Co., Ltd.: See—
 Hayashi, Chusaku, 3,641,412.
 Hayashi, Shigeki: See—
 Komatsu, Koei; Okuya, Eitaro; Tomioka, Katsuyoshi; Sakai, Masato; Hayashi, Shigeki; Yasunaga, Hidetoshi; and Kogure, Akira, 3,669,943.
 Hayashi, Shigeyuki: See—
 Horie, Tatsuo; and Hayashi, Shigeyuki, 3,646,237.
 Hayashi, Shinichi: See—
 Yamamura, Katsumi; Miyasaka, Tsugumitsu; Hayashi, Shinichi; Yamamoto, Masao; and Matsubara, Yukio, 3,677,909.
 Hayashi, Shozo: See—
 Asano, Hiroaki; Koide, Tsuyoshi; Ohtsu, Ikuo; Hayashi, Shozo; and Kobayashi, Hiroshi, 3,643,383.
 Hayashi, Tadao: See—
 Kita, Yasuo; and Hayashi, Tadao, 3,685,537.
 Hayashi, Takao; and Matsukawa, Hiroharu, to Fuji Photo Film Co., Ltd. Clay-coated sheet for pressure-sensitive copying sheet. 3,682,680, 8-8-72, Cl. 117-36.200.
 Hayashi, Takayoshi: See—
 Takamizawa, Minoru; Hayashi, Takayoshi; Uzawa, Kazumoto; Takita, Masatoshi; and Kudo, Yoshiaki, 3,642,596.
 Hayashi, Tatsuo: See—
 Inada, Masami; Hayashi, Tatsuo; and Takayama, Katuki, 3,650,573.
 Inada, Masami; and Hayashi, Tatsuo, 3,685,867.
 Okamoto, Tosiaki; Inada, Masami; Takayama, Katuki; Hayashi, Tatsuo; Nishida, Koji; Sakakibara, Naoki; and Kamiya, Masao, 3,656,817.
 Hayashi Telempu Co., Ltd.: See—
 Hayashi, Isao, 3,655,849.
 Hayashi, Toshio, to Minolta Camera Kabushiki Kaisha. Electric shutter control circuitry. 3,668,987, 6-13-72, Cl. 95-11.000.
 Hayashi, Yasunori: See—
 Osaki, Keisuke; Egashira, Hiroshi; and Hayashi, Yasunori, 3,675,206.
 Hayashi, Yasutaka; and Arakawa, Hideo, to Kobushiki Kaisha Toyota Jido Shokki Seisakusho and Kabushiki Kaisha Toyota Chuo Kenyu Sho. Control apparatus for fluid actuator. 3,695,023, 10-3-72, Cl. 57-99.000.
 Hayashi, Yoshiaki: See—
 Tatamatsu, Kenzo; Hosono, Hiroo; Katagiri, Toshio; Hayashi, Yoshiaki; and Ando, Hiroyuki, 3,700,818.
 Hayashi, Yoshihiro: See—
 Seo, Kiyokazu; and Hayashi, Yoshihiro, 3,693,147.
 Hayashi, Yoshihiro, to Kabushiki Kaisha Tokai Rika Denki Seisakusho Nishikasugaigun. Device in an automobile for detecting a pull-out motion of a seat belt. 3,689,881, 9-5-72, Cl. 340-52.000.
 Hayashi, Yoshiki; Sasaki, Hiromi; and Matsumura, Toichi, to Matsushita Electric Industrial Co., Ltd. Method for making electrically conducting layer of copper iodide. 3,677,816, 7-18-72, Cl. 117-217.000.
 Hayashi, Yoshimasa: See—
 Nakajima, Yasuo; Hayashi, Yoshimasa; and Sugihara, Kunihiko, 3,633,554.
 Nakajima, Yasuo; and Hayashi, Yoshimasa, 3,636,934.
 Nakajima, Yasuo; and Hayashi, Yoshimasa, 3,646,764.
 Nakajima, Yasuo; Hayashi, Yoshimasa; and Nagumo, Sin-ichi, 3,670,496.
 Nakajima, Yasuo; Hayashi, Yoshimasa; and Sugihara, Kunihiko, 3,673,993.
 Nakajima, Yasuo; and Hayashi, Yoshimasa, 3,675,633.
 Nakajima, Yasuo; Hayashi, Yoshimasa; Yoshimura, Toru; Sugihara, Kunihiko; and Nagumo, Shin-ichi, 3,680,318.

Hayashi, Yutaka; and Tarui, Yasuo, to Kogyo Gijutsuin. Method of manufacturing microstructures. 3,690,966, 9-12-72, Cl. 148-187.000.
 Hayashibara Company: See—
 Hirao, Mamoru; and Mitsuhashi, Masakazu, 3,692,580.
 Kurimoto, Masashi; Sugimoto, Kaname; and Hirao, Mamoru, 3,677,896.
 Mitsuhashi, Masakazu; Hirao, Mamoru; and Sugimoto, Kaname, 3,705,039.
 Okada, Shigetaka; and Tsuyama, Naoto, 3,701,714.
 Sakai, Shuzo; Miyake, Toshio; and Sato, Yoshinari, 3,691,013.
 Sugimoto, Kaname; Yoshida, Mikihiro; and Kurimoto, Masashi, 3,632,475.
 Yoshida, Mikihiro; Mitsuhashi, Masakazu; and Hidao, Mamoru, 3,705,811.
 Hayashibara, Yuji: See—
 Kato, Tetsuji; Izumi, Mikio; Hayashibara, Yuji; and Suenaga, Kazuo, 3,655,824.
 Hayashida, Motoyuki: See—
 Muroki, Takumi; and Hayashida, Motoyuki, 3,648,672.
 Tadokoro, Tomoo; Hayashida, Motoyuki; and Yoshimura, Shigetake, 3,657,893.
 Hayatsu, Kazuo: See—
 Hamada, Takaki; Nakashio, Seizo; Maruta, Isao; Hayatsu, Kazuo; Seto, Tetsuki; and Kono, Yoichi, 3,700,630.
 Haycock, Ernest W., to Shell Oil Company. Cathodic protection of closely spaced oil well casings. 3,674,662, 7-4-72, Cl. 204-147.000.
 Haycock, Ernest W.; and Prober, Richard, to Shell Oil Company. Method of carrying out electrochemical processes in a fluidized-bed electrolytic cell. 3,703,446, 11-21-72, Cl. 204-23.000.
 Hayday, William, to Power Car Door Corporation. Door actuator. 3,653,154, 4-4-72, Cl. 49-280.
 Hayden, David M. Utility caddy for roller painting. 3,663,982, 5-23-72, Cl. 15-257.000.
 Hayden, Howard Wayne, Jr.; Gibson, Robert Cameron; and Brophy, Jere Hall, to International Nickel Company, Inc., The. Stainless steel having improved corrosion and fatigue resistance. 3,689,325, 9-5-72, Cl. 148-12.000.
 Hayden, John T., Jr.; and Plasiewicz, Casimir F., to Westinghouse Electric Corporation. Method for heat treating metallic strip material. 3,655,460, 4-11-72, Cl. 148-13.1.
 Hayden, Percy: See—
 Clark, Duncan; and Hayden, Percy, 3,637,867.
 Clark, Duncan; and Hayden, Percy, 3,641,162.
 Hayden, William G., to Chemcraft Incorporated. Method of forming a molded article of manufacture with strengthening members formed therein. 3,702,355, 11-7-72, Cl. 264-92.000.
 Haydon, Arthur W., to Tri-Tech, Inc. Clock system. 3,643,420, 2-22-72, Cl. 58-24.
 Haydon, Arthur W.; and Crossley, Harry E., to Tri-Tech, Inc., mesne. Time delay relay. 3,665,348, 5-23-72, Cl. 335-68.
 Haydon, Arthur W., to Tri-Tech, Inc., mesne. Cam actuated switch assembly. 3,679,988, 7-25-72, Cl. 307-133.000.
 Haydon, Arthur W., to Tri-Tech, Inc. Clock system. 3,685,278, 8-22-72, Cl. 58-24.000.
 Haydon, Arthur W., to Tri-Tech, Inc. Clock system. 3,690,059, 9-12-72, Cl. 58-24.000.
 Haydu, Bartley A. Transfer and lift mechanism. 3,655,070, 4-11-72, Cl. 214-1.
 Hayes, Alan Michael: See—
 Faulkes, Kenneth Milford; and Hayes, Alan Michael, 3,683,345.
 Hayes, Barbara E.: See—
 Lofquist, Robert A.; and Hayes, Brendan T., 3,655,821.
 Hayes, Barry James: See—
 Ball, Alan; Hayes, Barry James; and Matthews, Albert John, 3,641,195.
 Hayes, Brendan T.: See—
 Lofquist, Robert A.; and Hayes, Brendan T., 3,655,821.
 Hayes, Brian: See—
 Hayes, Edward J., Jr.; and Hayes, Brian, 3,647,504.
 Hayes, Bruce Ian, to Beasley French & Company Limited. Bag making machines. 3,643,557, 2-22-72, Cl. 93-93.
 Hayes, C. I., Inc.: See—
 Paulson, Carl G., 3,704,871.
 Pine, Wilson C.; Western, Herbert W.; and Kimball, William H., 3,642,263.
 Western, Herbert W.; Gronquist, Ernest C., Jr.; Ott, Marvin J., Jr.; and Gunther, Donald E., 3,656,720.
 Hayes, Charles F.; and Steffey, David R., to General Motors Corporation. Constant-area vectoring nozzle. 3,640,469, 2-8-72, Cl. 239-265.35.
 Hayes, Charles U.: See—
 Bonafino, Edward J.; Doolittle, Frederick W.; Hayes, Charles U.; and Yarrington, James C., 3,706,370.
 Hayes, Charles W. Spaced multi-wall construction unit. 3,686,811, 8-29-72, Cl. 52-223.000.
 Hayes, Charles W., to United Aircraft Corporation. Hollow turbine blade. 3,697,192, 10-10-72, Cl. 416-96.000.
 Hayes, Claude Cecil, Jr.: See—

- Arian, Charles Mourad; Mahler, Hans Hermann; Hayes, Claude Cecil, Jr.; and Tanner, Hal W., Jr., 3,695,219.
- Hayes, Edward J.; and Stelzer, William, to Kelsey-Hayes Company. Auxiliary valve for controlling master cylinder brake pressure in a vehicle braking and skid control system. 3,653,725, 4-4-72, Cl. 303-21.
- Hayes, Edward J., Jr.; and Hayes, Brian. Pressure sensitive laminate. 3,647,504, 3-7-72, Cl. 117-36.7.
- Hayes, Fay A.: See—
Myers, Robert R.; and Hayes, Fay A., 3,688,908.
- Hayes, Frederick Vincent, to Gulf & Western Systems Company. Dual alarm and master box control circuit. 3,651,330, 3-21-72, Cl. 307-64.
- Hayes, Geoffrey, to Glass, Marvin, & Associates, mesne. Board game apparatus. 3,649,021, 3-14-72, Cl. 273-134.
- Hayes, George D.: See—
Anderson, Dwayne Roy, 3,647,232.
- Hayes, Harold B.; and Huff, Gerald L., to Lilly, Eli, and Company. Process for preparing 7-amino cephalosporamic acid. 3,641,018, 2-8-72, Cl. 260-243.
- Hayes, Jerry R., to Nelson, L. R., Mfg. Co., Inc. Nozzle coupling. 3,655,164, 4-11-72, Cl. 251-347.
- Hayes, John B.; and Knight, Bruce L., to Marathon Oil Company. Mobility control in flooding reservoirs containing water-sensitive clay minerals. 3,677,344, 7-18-72, Cl. 166-252.000.
- Hayes, John Burch, to Deere & Company. Combine sweep conveyor. 3,646,373, 2-29-72, Cl. 130-26.
- Hayes, John C., to Universal Oil Products Company. Catalytic composite of platinum, tin and germanium with carrier material and reforming therewith. 3,632,503, 1-4-72, Cl. 208-139.
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- Hayes, John C., to Universal Oil Products Company. Hydrogenation of aromatic hydrocarbons. 3,637,879, 1-25-72, Cl. 260-667.
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- Hayes, John C., to Universal Oil Products Company. Catalytic reforming process. 3,645,888, 2-29-72, Cl. 208-139.
- Hayes, John C., to Universal Oil Products Company. Dehydrogenation method and catalytic composite for use therein. 3,647,719, 3-7-72, Cl. 252-466.
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- Hayes, John C., to Universal Oil Products Company. In situ regeneration and resulfiding of a platinum- and sulfur-containing catalyst in a hydrocarbon conversion plant containing metallic sulfide scale. 3,660,308, 5-2-72, Cl. 252-416.
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- Hayes, Lawrence E.: See—
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- Squires, William C.; and Hayes, Lawrence E., 3,644,176.
- Hayes, Lawrence P., to International Business Machines Corporation. Printed circuit generator. 3,668,990, 6-13-72, Cl. 95-12.000.
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- Hayes, Leonard L.; and Hottinger, Gerald J., to Potlatch Forests, Inc. Log positioning apparatus. 3,643,715, 2-22-72, Cl. 144-209.
- Hayes, Leonard L. Hand truck attachment. 3,647,236, 3-7-72, Cl. 280-41.
- Hayes, Leonard L., to Potlatch Forests, Inc. Sheet material accumulator. 3,651,961, 3-28-72, Cl. 214-6.
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- Hayes, Robert A.: See—
Werner, Byron H.; and Hayes, Robert A., 3,660,532.
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Gould, Joseph C.; and Hayes, Robert L., 3,694,117.
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- Hayes, Roy J., to Gardner-Denver Company. Muffler for pneumatic tool. 3,635,299, 1-18-72, Cl. 181-36.
- Hayes, Stanley I., Jr., to USM Corporation. Integral microporous article and process of making. 3,668,056, 6-6-72, Cl. 161-159.000.
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- Hayes, Thomas A. Trolling device for boats. 3,633,531, 1-11-72, Cl. 114-145.
- Hayes, Thomas J., Jr., to Anbeck Corporation. Double acting slips. 3,670,374, 6-20-72, Cl. 24-263.0ad.
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- Hayes, Woodrow L.: See—
Jones, Derek; and Hayes, Woodrow L., 3,652,043.
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Wickham, Robert G., 3,641,800.
- Hayfield, Peter Charles Steele: See—
Cotton, Joseph Bernard; Bennett, William Raymond; Bell, John Alan; and Hayfield, Peter Charles Steele, 3,645,862.
- Hayford, John W.: See—
Tucker, William M.; Gardner, Barrie; and Hayford, John W., 3,647,646.
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- Hayhurst, Lewis J.; Avery, William L.; and Gels, Clarence B., to Swift & Company. Tamale manufacture. 3,649,303, 3-14-72, Cl. 99-182.
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- Hayman, David Frank: See—
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- Hayman, Dennis J., to Hydrometals, Inc., mesne. Single handle faucet valve. 3,680,592, 8-1-72, Cl. 137-625.400.
- Hayman, Jack H., Jr.: See—
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- Haymore, Ralph B., to Envirotech Corporation. Flotation apparatus. 3,679,056, 7-25-72, Cl. 210-221.000.
- Hayne, Thomas F.; and Whited, Charles A., to Xerox Corporation. Photosensitive misfeed detector. 3,684,890, 8-15-72, Cl. 250-223.000.
- Hayne, Wilbur L.: See—
Liche, Hubert J.; and Hayne, Wilbur L., 3,657,127.

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- Haynes, Charles K. Pullet trailer. 3,633,963, 1-11-72, Cl. 296-24.
- Haynes, George M., to Whitestone Chemical Corporation. Partially saponified ethoxylated triglycerides of ricinoleic acid. 3,663,583, 5-16-72, Cl. 260-410.7.
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Kodama, Jiro K.; Haynes, George R.; and Albert, James R., 3,658,993.
- Haynes, Harold L.: See—
Morrison, Albert R.; and Haynes, Harold L., 3,664,855.
- Haynes, Harvey H., to United States of America, Navy. Underwater shock-absorbing and deceleration device. 3,699,689, 10-24-72, Cl. 61-69.000.
- Haynes, Harvey H.; Kahn, Lawrence F.; and Hoofnagle, Rodger A. Underwater connecting device. 3,704,679, 12-5-72, Cl. 114-51.000.
- Haynes, James N., to Hercules Incorporated. Azidoformates and their use. 3,686,231, 8-22-72, Cl. 260-349.000.
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- Haynes, Joel E. Liquid level sensor incorporating pulse techniques. 3,670,765, 6-20-72, Cl. 137-392.000.
- Haynes, John R. Welding torch oscillator. 3,633,812, 1-11-72, Cl. 228-27.
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- Haynes, Richard Humphrey, to Tracked Hovercraft Limited. Linear induction motor secondary member. 3,667,397, 6-6-72, Cl. 104-148.0lm.
- Haynes, Richard T.; Langguth, Robert P.; and Liss, Raymond L., to Monsanto Company. Enzyme additives. 3,634,267, 1-11-72, Cl. 252-137.
- Haynes, Winfield Scott, Jr.; and Miller, Carroll T., to Dow Chemical Company. The Method for the polymerization of alkenyl aromatic monomers. 3,639,372, 2-1-72, Cl. 260-93.5.
- Hayre, Harbhajan Singh. Remote actuated pollution and oil flow control system. 3,697,952, 10-10-72, Cl. 340-147.00r.
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Dreckmann, Hubert; Wilson, Charles B.; and Wagenblast, Richard K., 3,696,290.
- Hays, Kenneth E.: See—
Morrow, Robert S.; Penn, Lloyd D.; and Hays, Kenneth E., 3,707,671.
- Hays, Kenneth Scott: See—
Werner, Walter Myers; Vockroth, William Joseph; and Hays, Kenneth Scott, 3,681,512.
- Hays, Lance G.: See—
United States of America, National Aeronautics and Space Administration, 3,648,083.
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- Hays Manufacturing Company: See—
Catania, Carmen, 3,633,868.
- Hays, Richard Young, to Du Pont de Nemours, E. I., and Company. Method and apparatus for melt-spinning hollow fibers. 3,686,377, 8-22-72, Cl. 264-40.000.
- Hays, Robert G.: See—
Ashton, Clark L.; Hays, Robert G.; and Pennell, Ronald C., 3,681,154.
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- Hays, Robert G., to Motorola, Inc. Gaseous non-preferential etching of silicon. 3,679,502, 7-25-72, Cl. 156-17.000.
- Hays, Robert Guy; Pennell, Charles Ronald; Reed, Edwin Emmett; and Volk, Charles Edward, to Motorola, Inc. Method of doping semiconductor substrates. 3,690,969, 9-12-72, Cl. 148-188.000.
- Hays, Russell Duane, to Schaub Engineering Co. Flow regulator. 3,643,685, 2-22-72, Cl. 137-501.
- Hays, Willard C.; and Smith, James D., to Industrial Nucleonics Corporation, mesne. Cross-axis control for three or four roll calendars. 3,691,940, 9-19-72, Cl. 100-41.000.
- Hays, William R.: See—
Clark, William H.; and Hays, William R., 3,699,072.
- Hayssen Manufacturing Company: See—
James, Robert C.; Wilson, David A.; and Pringle, Frank E., Jr., 3,664,086.
- James, Robert C.; Vogel, Walter H.; and Sorenson, Richard D., 3,680,446.
- Pringle, Frank E., Jr.; West, George Allan; Vogel, Walter H.; Saffranski, Richard W.; and Drake, Frederick R., 3,681,890.
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- Vogel, Walter H.; Cochrane, Richard H.; and James, Robert C., 3,652,357.
- Hayssen Manufacturing Company, mesne: See—
Saffron, Ronald G., 3,659,998.
- Hayter, Roy G.; and Bishop, Eugene T., to Shell Oil Company. Block copolymers having improved physical properties. 3,639,523, 2-1-72, Cl. 260-880.
- Hayward, Charles R.: See—
Carroll, Robert L.; and Hayward, Charles R., 3,677,734.
- Hayward, Leonard. Cigarette smoking device. 3,695,275, 10-3-72, Cl. 131-171.000.
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Erlich, Giora, 3,640,310.
- Hayward, Norman G. Means for illumination of gun sights and the like. 3,678,590, 7-25-72, Cl. 33-241.000.
- Hayward, Richard E., Jr., to Phillips Petroleum Company. Method of producing a soft outer surface of fine denier fiber on a nonwoven fabric. 3,684,601, 8-15-72, Cl. 156-148.000.
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- Haywood, Ralph E. Warning device for indicating locked position of door. 3,643,249, 2-15-72, Cl. 340-274.
- Hazard, Herbert R.: See—
Davis, James A.; Talbert, Sherwood G.; Hazard, Herbert R.; and Gibeaut, William A., 3,663,203.
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Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., 3,661,282.
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- Hazard, Robert E., to Polytop Corporation. Dispensing closure with rupturable diaphragm seal. 3,653,546, 4-4-72, Cl. 222-83.
- Hazard, Robert E., to Polytop Corporation. Rotatable spout closures with latch structures. 3,655,099, 4-11-72, Cl. 222-153.
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- Hazard Sensor Inc.: See—
Scanlan, Warren F., 3,676,738.
- Hazel, Herbert K.: See—
Cochran, Thomas J.; Hazel, Herbert K.; and Rance, William G., Jr., 3,691,864.
- Hazel, Herbert K., to International Business Machines Corporation. Wiring apparatus. 3,646,307, 2-29-72, Cl. 219-80.
- Hazelhurst, Gerald D., to Mark Products, Inc. Marine streamer cable. 3,696,329, 10-3-72, Cl. 340-7.00r.
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Hakka, Leo E.; Bata, George L.; and Hazell, John E., 3,674,439.
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Clifford, Thomas J.; and Nelson, Robert C., 3,675,860.
- Dennis, Paul S., Jr., 3,662,326.
- Herring, Frederick G., 3,668,569.
- Loughlin, Bernard D., 3,641,259.
- Masak, Raymond J.; and Baurle, Herbert F., 3,704,465.
- Maune, James J., 3,673,606.
- Reeber, Nicholas J., 3,644,668.
- Vasile, Carmine F., 3,670,271.
- Hazeltine Research, Inc.: See—
Verga, John, 3,640,124.
- Wallingford, Clarence Robert, 3,641,369.
- Hazemag Hartzkerkleinerungs- und Zementmaschinenbau Gesellschaft m.b.H.: See—
Hemessath, Gerhard, 3,659,794.
- Von Conrad, Eugen; Rosner, Kurt; and Meyer, Ludwig, 3,659,792.
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Leutelt, Helmut, 3,659,691.
- Hazen, Edward J., to Bendix Corporation, The. Quartz pressure sensor. 3,645,137, 2-29-72, Cl. 73-398.
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Schoenewaldt, Erwin F.; Hazen, George G.; and Shuman, Richard F., 3,660,372.
- Hazen Research, Inc.: See—
Hadzgeriga, Pablo, 3,681,931.
- Hazen, Wayne C., 3,676,106.
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Clendenning, John R., 3,637,655.
- Hazlewood, John F.; and Ruehl, Herbert T., to Kelley Company, Inc. Protective bumper. 3,664,075, 5-23-72, Cl. 52-173.000.

- Hazlewood, Lewis F., to Kidde, Walter, & Company, Inc. Disposable tourniquet cover. 3,654,931, 4-11-72, Cl. 128-327.
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- Nagafuchi, Kazumi; Inada, Hitoshi; Ohmura, Nobuaki; Manago, Seiji; Tsunashima, Asaji; and Hazu, Masataka, 3,636,787.
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- Hazzard, Noel D.: *See—*
- Gach, Francis X.; Fanton, Ralph E.; and Hazzard, Noel D., 3,699,905.
- Hazzard, Robert C.: *See—*
- Stephenson, Earle W.; Newberry, James G.; and Hazzard, Robert C., 3,659,793.
- H.B.P. Manufacturing Incorporated: *See—*
- Bryan, William Roy, 3,635,638.
- HCA Food Corporation: *See—*
- Finley, Ronald K.; Langlois, Donald J.; and Nicholson, Robert H., 3,659,315.
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- Heacox, Russel L., to P & Z Company, Inc. Process and apparatus for the installation of jack piles. 3,685,301, 8-22-72, Cl. 61-51.000.
- Head, Beverly P., Jr.: *See—*
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- Head, Claude D., III, to Texas Instruments, Incorporated. Method of operating a computer to read information from cards. 3,705,416, 12-5-72, Cl. 235-61.11e.
- Head, Glenn Dale; and Hadley, Howard C., to Deere & Company. Crop harvester. 3,646,732, 3-7-72, Cl. 56-2.
- Head, Gordon Edwin; Jones, Kenneth Morgan; and Gendle, Eric, to Imperial Chemical Industries Limited. Polyester catalyst recovery. 3,647,362, 3-7-72, Cl. 23-22.
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- Fogle, William A., Jr.; Jason, Joseph B.; and Head, Richard A., 3,677,173.
- Head Wrightson and Company, Limited: *See—*
- Lorrek, Johannes; and Lorrek, Josef, 3,707,280.
- Headrick, Edward E. Apparatus for confining floating materials. 3,662,891, 5-16-72, Cl. 210-242.
- Heady, Orville E.; Towell, John F.; and Standifer, Richard L., to United States of America, Atomic Energy Commission. Plutonium hexafluoride reduction. 3,671,199, 6-20-72, Cl. 23-284.000.
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- Heal, Jeremy C.; Snape, Raymond; and Gower, Philip B., to USM Corporation. Automatically lasting machines. 3,660,857, 5-9-72, Cl. 12-127.
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- Heald Machine Company, The: *See—*
- Deranian, Diran; Hume, Norman S.; and Uhtenwoldt, Herbert R., 3,634,980.
- Hahn, Robert S.; and Lindsay, Richard P., 3,634,976.
- Hahn, Robert S.; and Keefe, Thomas R., 3,640,138.
- Hahn, Robert S.; and St. Andre, Arthur F., 3,642,378.
- Hahn, Robert S.; Youden, David H.; and St. Andre, Arthur F., 3,644,049.
- Hahn, Robert S.; and Lindsay, Richard P., 3,694,969.
- Hohler, Frederick A., 3,688,443.
- Jacobson, Alden H., 3,635,109.
- Robillard, Edward G.; Lizotte, Robert H.; and Uhtenwoldt, Herbert R., 3,634,979.
- Uhtenwoldt, Herbert R.; Hohler, Frederick A.; and Robillard, Edward G., 3,634,978.
- Uhtenwoldt, Herbert R.; Grotewold, William H.; and Humes, Norman S., 3,643,382.
- Uhtenwoldt, Herbert R.; Grotewold, William H.; and Straub, Bruno E., 3,650,076.
- Uhtenwoldt, Herbert R.; Grotewold, William H.; and Wlodyka, Edmund E., 3,657,843.
- Uhtenwoldt, Herbert R., 3,664,718.
- Uhtenwoldt, Herbert R.; and Lynch, James M., 3,688,447.
- Uhtenwoldt, Herbert R., 3,691,699.
- Heald, Sherman T.: *See—*
- Hammer, Herman J.; Heald, Sherman T.; and Royce Frank A., 3,689,725.
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- Boothe, Willis A.; and Healey, Anthony J., 3,678,953.
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- Healey, Daniel J., III; and Driscoll, Michael M., to United States of America, Navy, mesne. Wide deviation voltage controlled crystal oscillator with temperature compensation. 3,697,890, 10-10-72, Cl. 331-116.000.
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- Oldfield, Harry; Healey, Gordon Terry; and Ridgway, John Anthony, 3,659,788.
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- Healey, Robert Joseph; and Stocker, Helmut, to Bell Telephone Laboratories, Incorporated. Constant current series regulator with control of bias current energizing control circuit of the regulator. 3,652,922, 3-28-72, Cl. 323-4.
- Healey, Robert Joseph, to Bell Telephone Laboratories, Incorporated. Low level amplifier. 3,668,539, 6-6-72, Cl. 330-17.000.
- Healis, George A., to Behring Corporation. Screwdriving apparatus. 3,662,797, 5-16-72, Cl. 144-32.000.
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- Cinotti, William R.; Panico, Joseph; and Barton, Robert J., 3,645,260.
- Panico, Joseph; and Lopin, Michael, 3,702,613.
- Panico, Joseph J., 3,670,736.
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- Fairaizl, Max L.; and Schneerman, John F., 3,668,734.
- Healy, Elton F. Dual crankshaft internal combustion engine. 3,680,396, 8-1-72, Cl. 74-44.000.
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- Sanner, Gary L.; and Hebeler, Charles B., 3,701,971.
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- Cizmar, John R.; and Hebeler, Herbert A., 3,687,000.
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- Hansen, Arne H.; and Hebenstreit, Lester Victor, 3,643,515.
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- Nyefler, Franz, 3,698,177.
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- Hefti, Willy, 3,645,002.
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- Mehrhof, Werner; Irmischer, Klaus; Hecht-Lucari, Giorgio; Kraft, Hans-Gunther; and Kieser, Hartmut, 3,639,599.
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- Horn, Kurt, 3,703,123.
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- Heckmann, Carl-Justus; and Heckmann, Michael, 3,685,811.
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- Heckmann, Carl-Justus; and Heckmann, Michael, 3,685,811.
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- Uebel, Philipp; Heckner, Helmut; and Schulin, Gotthilf, 3,651,873.
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- Benteler, Helmut; Hartmann, Franz-Josef; and Hefendehl, Heinz, 3,668,918.
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- Ziegler, George William, Jr.; Apa, Armand Samuel; and Heffner, Donald Elwood, 3,654,793.
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Hausberg, Gerhard; and Hegemann, Karl-Rudolf, 3,631,656.
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Kohl, Robert F.; and Heian, Glenn A., 3,692,287.
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Essex, Andrew Michael; and Heiart, Robert Bernard, 3,666,633.
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Stournas, Stamoulis; Heiba, El-Ahmadi I.; and Dessau, Ralph M., 3,706,541.
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- Heiberger, Francis E., to Danly Machine Corporation. Digital control of press synchronization. 3,675,098, 7-4-72, Cl. 318-85.000.
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Pondelicek, William J.; and Schmidt, Vernon F., 3,645,319.
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Frind, Horst; Heid, Christian; and Aman, Horst, 3,640,803.
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Kaufman, Jack B.; and Heid, Raymond G., 3,678,603.
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Schultz, John R.; Heidacher, John W.; Sharer, John M.; Adams, James S.; and Damico, Frank M., 3,660,591.
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Pammer, Erich; and Heidegger, Peter, 3,681,132.
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Asbill, Clarence M.; and Heidelberg, Frederic H., 3,646,942.
- Heidelberg Druckmaschinen Aktiengesellschaft: See—
Barthel, Karl, 3,682,472.
Gramlich, Otto, 3,635,464.
Sternberg, Hubert H. A., 3,680,481.
Wirz, Arno, 3,675,917.
Wirz, Arno, 3,695,606.
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Ellis, Larry C.; Chorkey, William J.; and Heideman, Robert J., 3,666,256.
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Zichr, Georg; and Heidenbluth, Heinz-Dieter, 3,653,983.
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Burkhardt, Horst, 3,636,538.
Ernst, Alfons; and Hoffling, Rudolf, 3,675,331.
Hofmann, Otto, 3,650,626.
Schwefel, Ernst, 3,638,186.
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Ernst, Alfons; and Jung, Werner, 3,705,518.
Schmitt, Walter, 3,681,605.
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Graybill, Harold W.; Heider, James E.; and Sponseller, Harold P., 3,679,341.
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Eberlein, Wolfgang; Heider, Joachim; Machleidt, Hans; and Engelhardt, Gunther, 3,644,330.
Eberlein, Wolfgang; Nickl, Josef; Heider, Joachim; Dahms, Gerhard; and Kobinger, Walter, 3,696,091.
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Kunkle, Gerald E.; and Heidish, William E., 3,666,432.
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Rainey, George E.; Heidmeyer, Donald H.; and Davis, Donald E., 3,641,618.
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Bosken, Hugo F.; and Heidt, Alfred K., 3,659,538.
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Bunting, Arthur; and Heighton, Arthur Victor, 3,645,498.
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Fintel, William Achard; Heighton, Harold Hubbard; and Rossman, John Guise, Jr., 3,705,227.
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Press, Irving D.; and Heigis, Henry E., 3,633,945.
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Beekmans, Nicolaas Marinus; Heijne, Leopold; and Vink, Adrianus Teunis, 3,654,112.
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Mohr, Bernhard; Engel, Heinz; and Heijnis, James Watt Ijsbrand, 3,698,614.
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Maskal, John; Thompson, Ivan M.; and Heikel, Henrik R., 3,639,158.
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Bakke, Jan Magnus; and Heikman, Harald Erik, 3,699,120.
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Wieschel, John E.; Zanzig, Jerald G.; Czarnecki, Robert M.; and Murray, Claire W., 3,682,336.
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Fischer, Hermann; Heil, Eduard; Swoboda, Johann; and Thoma, Richard, 3,634,300.

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Miller, David E.; and Heil, Robert C., 3,662,163.
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Heil, Oskar, 3,636,278.
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Anderson, Richard M.; Parrish, Hushel L., Jr.; and Spade, Kenneth L., 3,691,786.
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Lutz, Leland H.; Heileman, Richard C.; Upstone, Harlan R.; Leonard, John M.; and Ottow, Melvin A., 3,639,950.
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Lock, Everett H.; and Heilhecker, Joe K., 3,673,676.
Maurer, William C.; Heilhecker, Joe K.; and Graham, Robert L., 3,645,331.
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Hazen, Stanley M.; and Heilman, William J., 3,647,923.
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Tillner, Siegfried; Heilmann, Heinz; and Ludemann, Joseph, 3,634,707.
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Scholtis, Walter; Ploch, Siegfried; Schattauer, Friedrich; Schonfuss, Martin; and Heilmann, Horst, 3,646,781.
- Heilmann, Le Roy W., to Nooter Corporation. Tank construction. 3,685,508, 8-22-72, Cl. 126-378.000.
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Goldmacher, Joel E.; and Heilmeier, George H., 3,703,331.
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Coty, Vernon F.; Heilweil, Israel J.; and Leavitt, Richard I., 3,672,953.
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Halbartschlager, Ingomar; and Heim, Alfred, 3,700,089.
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Tomiyama, Eijiro; and Heim, John H., 3,667,156.
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McCloskey, Albert R.; and Rozentals, Alfred, 3,656,821.
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- Heiman, John C., to Dow Chemical Company, The. Recovery of dicyclopentadiene from cracked petroleum. 3,676,509, 7-11-72, Cl. 260-666.0py.
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Schotten, Alfons; and Heimbach, Franz, 3,648,841.
Schotten, Alfons; and Heimbach, Franz, 3,655,056.
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Wilke, Gunther; Heimbach, Paul; and Delliehausen, Claus, 3,660,440.
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- Hein, Frank J.; and Fleck, Donald G., to TRW Inc. Heat reflector. 3,680,625, 8-1-72, Cl. 164-127.000.
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- Heine, Heinz: *See*—
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- Heine, Helmut A., to Proper Manufacturing Co., Inc. and Optotechnik - G.m.b.H. Battery-operated devices. 3,643,083, 2-15-72, Cl. 240-10.66.
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- Heineman, William R.: *See*—
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- Heinemann Electric Company: *See*—
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- Heinemann, Klaus: *See*—
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- Heinen, Joseph: *See*—
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- Weindler, Berno; Ruprecht, Robert; and Grimm, Heinrich, 3,636,785.
- Heinlen, Frederick Jay, to AMP Incorporated. Method and apparatus for manufacturing lead frames. 3,650,232, 3-21-72, Cl. 113-1.
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- Wiemer, Erich, 3,707,237.
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- Heinrich, Peter, Jr.: *See*—
Niccum, Forest G.; Kudlaty, Walter J.; Dauer, Charles W.; and Heinrich, Peter, Jr., 3,647,083.
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- Heintzelman, William J.; and Naiman, Michael I., to Petrolite Corporation. Reaction products of wax-anhydride compounds and alcohol. 3,699,154, 10-17-72, Cl. 260-485.00j.
- Heinz, David M.: *See*—
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- Hackett, Robert H.; Hartmann, Charles D.; and Elias, Brady M. (said Hartmann and said Elias assors. to), 3,643,362.
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Wippermann, Josef, 3,707,226.
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- Helderman, James F., to Ladd Tool Company, Inc., mesne. Suspension clip structure and apparatus and method for securing same to a work surface. 3,665,583, 5-30-72, Cl. 29-254.
- Heldt, Carl R. Structural toys. 3,698,123, 10-17-72, Cl. 46-29.000.
- Heldt, Roger, to French, Thomas & Sons Limited. Curtain heading tape. 3,665,977, 5-30-72, Cl. 139-387.000.
- Helen Krohn: *See—*
- Fleischer, Oscar, 3,641,696.
- Helene Industries, Inc.: *See—*
- Spangler, Ross; and Materre, Christine, 3,654,938.
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- Helfer, Lawrence R.; and Hunkeler, Ernst J., to Gleason Works, The. Work holders for use with apparatus for transferring work blanks and workpieces in bevel gear making machines. 3,635,323, 1-18-72, Cl. 198-33.
- Helfgen, Werner: *See—*
- Rohde, Wilhelm; and Helfgen, Werner, 3,683,742.
- Helfgott, Theodore: *See—*
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- Helfrey, Paul F.: *See—*
- Hass, Robert H.; Helfrey, Paul F.; and Kay, Nicholas L., 3,655,551.
- Helfrich, George F.: *See—*
- Cochran, Rex W.; Helfrich, George F.; Hoblit, Louis D.; and Liu, Gordon Y. T., 3,632,799.
- Helgeland, Walter; Lazott, James B.; Duke, Philip J.; Taggart, William J.; Geacox, George W.; and Brandsma, Abe, to Sprague Electric Company. Vitreous enamel resistor. 3,645,784, 2-29-72, Cl. 117-215.
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- Helger, Roland: *See—*
- Hartel, Arnold; Helger, Roland; and Lang, Hermann, 3,689,364.
- Krafczyk, Friedrich; and Helger, Roland, 3,657,118.
- Helgeson, Peter L.; and Egervary, Tibor I., to Raytheon Company. Continuous clean oven conversion. 3,706,302, 12-19-72, Cl. 126-19.00r.
- Helgstrand, Ake John Erik: *See—*
- Carlsson, Lars Anders Fritz; Helgstrand, Ake John Erik; Sjöberg, Berndt Olof Harald; and Stjernstrom, Nil Erik, 3,637,714.
- Heli-Coil Corporation: *See—*
- Setzler, Paul C., 3,654,688.
- Helical Line Products Co.: *See—*
- Bonds, Albert C., 3,684,221.
- Helicorporation: *See—*
- Garfinkle, Marvin, 3,669,564.
- Helinski, Edward F., to International Business Machines Corporation. Fluid-operated diaphragm logic devices. 3,680,590, 8-1-72, Cl. 137-608.000.
- Heljula, Kuldar: *See—*
- Grell, John; Heljula, Kuldar; and Martin, David Eric, 3,632,663.
- Helke, Robert C.: *See—*
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- Helker, George J. Power driven vehicle for surface travel on a body of water. 3,670,684, 6-20-72, Cl. 114-66.05p.
- Hell, Dr.-Ing., Rudolf: *See—*
- Taudt, Heinz; and Keller, Hans, 3,657,472.
- Hell, Peter-Matthias: *See—*
- Scheuermann, Horst; and Hell, Peter-Matthias, 3,689,481.
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- Hell, Rudolf, Dr.-Ing.: *See—*
- Colditz, Armin O.; and Schmidt, Werner, 3,643,067.
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- Gertung, Kurt, 3,666,951.
- Keller, Hans, 3,651,249.
- Koll, Roman, 3,652,992.
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- Henning, Eberhard, 3,671,666.
- Helland, Howard M., to Appleton Mills. Adjustable fabric for use as a papermaking felt with zig-zag patterned cross-machine yarns. 3,652,389, 3-28-72, Cl. 162-275.
- Helland, Kristian L.: *See—*
- Gawron, Stanley A.; and Helland, Kristian L., 3,691,375.
- Helland, Russell Earl, to Cameron-McIndoo Limited. Container adapted to incorporated adjustable shelving or the like. 3,650,588, 3-21-72, Cl. 312-306.
- Hellar, Martin W.; and Kiener, Michael A., to Addressograph-Multi-graph Corporation. Simultaneous conversion and fusion of electrostatically produced printing masters. 3,701,673, 10-31-72, Cl. 117-17.500.
- Hellbarth, Heinz; Wendel, Wolfram; and Schulz, Alfred, to U.S. Philips Corporation. Input stage for a receiver, particularly for the medium wave. 3,646,449, 2-29-72, Cl. 325-383.
- Helle, Gordon W., to Sawmill Hydraulics, Inc. Apparatus for splitting and chopping timber. 3,640,323, 2-8-72, Cl. 144-193.
- Helleman, Albert Joseph, to Gevaert-Agfa N.V. Web winding apparatus. 3,642,221, 2-15-72, Cl. 242-56.
- Heller, Aaron L. Information retrieval system. 3,682,300, 8-8-72, Cl. 209-80.500.
- Heller, Adam: *See—*
- Brecher, Charles; Heller, Adam; and Pappalardo, Romano, 3,681,252.
- Heller, Adam, to New England Nuclear Corporation. Distyryl-benzene-derivative scintillator solutions. 3,644,211, 2-22-72, Cl. 252-301.2.
- Heller, George L.; Eckert, Frank J.; De Land, Charles L.; and Dingman, Robert W., to Citics Service Company. Process and apparatus for the manufacture of carbon blacks having improved dispersion and plate wear characteristics. 3,642,446, 2-15-72, Cl. 23-2094.
- Heller, Gunter: *See—*
- Haberkorn, Ottmar; and Heller, Gunter, 3,690,749.
- Heller, Hansjorg: *See—*

- Kirchmayr, Audolph; Peterli, Hans Jakob; and Heller, Hansjorg, 3,706,700.
- Kirchmayr, Rudolf; Heller, Hansjorg; and Rody, Jean, 3,642,813.
- Kirchmayr, Rudolf; Heller, Hansjorg; and Rody, Jean, 3,646,054.
- Regenass, Franz; Schlumbom, Peter Christoph; and Heller, Hansjorg, 3,669,936.
- Heller, Harold: *See—*
- Corte, Herbert; and Heller, Harold, 3,687,912.
- Heller, Harold M., to Dennison Manufacturing Company. Dispensing package with article-retaining tear strip. 3,685,648, 8-22-72, Cl. 206-78.00b.
- Heller, Horst A.: *See—*
- Mehnert, Walter E.; and Heller, Horst A., 3,671,850.
- Heller, Hubert H.: *See—*
- Durr, Alfred W.; Gunsser, Otto; and Heller, Hubert H., 3,688,362.
- Heller, Karl-Heinz; Kreuder, Manfred; and Merz, Karl, to Farbenfabriken Bayer Aktiengesellschaft. N-(β -Cyanovinyl)-indolines. 3,637,745, 1-25-72, Cl. 260-326.11.
- Heller, Kenneth G. Bonding machine. 3,668,047, 6-6-72, Cl. 156-541.000.
- Heller, Martin G.; and Kelly, Donald D. Apparatus for processing transistor leads. 3,640,113, 2-8-72, Cl. 72-332.
- Heller, Martin G.; and Kelly, Donald. De-reeling apparatus for electrical components. 3,701,298, 10-31-72, Cl. 83-23.000.
- Heller, Paul R.; Brenner, William C.; and Phillosky, Harold M., to Westinghouse Electric Corporation. Transposed conductor for dynamoelectric machines. 3,647,932, 3-7-72, Cl. 174-34.
- Heller, Rudolf. Method of producing shaped bodies of low specific gravity. 3,640,787, 2-8-72, Cl. 156-77.
- Heller, Walter E., & Company, mesne: *See—*
- Clark, Norman R., 3,656,754.
- Meixner, Edwin J., 3,638,003.
- Wangard, William, 3,660,683.
- Wangard, William; and Fleeton, David W., 3,665,090.
- Heller, William C., Jr.: *See—*
- Heller, William C., Jr.; Leatherman, Alfred F.; and Christian, Robert L. (said Leatherman and said Christian assors. to said), 3,705,819.
- Leatherman, Alfred F., 3,706,176.
- Heller, William C., Jr.; and Davis, Donald W. Method of producing packaging material. 3,654,006, 4-4-72, Cl. 156-108.
- Heller, William C., Jr. Printing method using electric through-field to indelibly lodge particles. 3,665,856, 5-30-72, Cl. 101-426.
- Heller, William C., Jr.; Leatherman, Alfred F.; and Christian, Robert L., said Leatherman and said Christian assors. to said Heller, William C., Jr. Drying by induction heating. 3,705,819, 12-12-72, Cl. 117-93.200.
- Heller, William C., Jr., mesne: *See—*
- Leatherman, Alfred F., 3,652,361.
- Heller, Zindel H., to Technicon Instruments Corporation. Apparatus for the elimination and/or detection of scatter signals in atomic fluorescence spectroscopy analysis means. 3,669,544, 6-13-72, Cl. 356-85.000.
- Hellerbach, Joseph, to Hoffmann-La Roche Inc. 2-(2-Piperidyl) acetamides. 3,654,288, 4-4-72, Cl. 260-293.76.
- Hellerbach, Joseph; Szente, Andre; and Walser, Armin, to Hoffmann-La Roche Inc. Process for the preparation of benzodiazepine-2-one derivatives. 3,657,223, 4-18-72, Cl. 260-239.3.
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- Hellerbach, Joseph; and Szente, Andre. (1,3) Oxazino (3,2-D) (1,4) benzodiazepine derivatives and process for the preparation thereof. 3,696,095, 10-3-72, Cl. 260-239.30t.
- Hellerich, Walter, to Arbed S.A. Article of manufacture. 3,636,675, 1-25-72, Cl. 52-659.
- Hellermann, Eberhard: *See—*
- Lingg, Gerhard; and Hellermann, Eberhard, 3,704,773.
- Lings, Gerhard; and Hellermann, Eberhard, 3,666,073.
- Hellermann, Paul, G.m.b.H.: *See—*
- Kabel, Heinrich, 3,670,782.
- Kabel, Heinrich, 3,695,308.
- Hellige, Fritz, & Co., G.m.b.H.: *See—*
- Muhl, Gerhard, 3,658,726.
- Streu, Benno, 3,642,361.
- Hellings, Thomas David Grinter: *See—*
- Reynolds, Kenneth; and Hellings, Thomas David Grinter, 3,666,467.
- Hellman, Erik, to Allmanna Svenska Elektriska Aktiebolaget. Mandrel for use in manufacturing a hollow elongated thin-walled metallic body and method of using such mandrel. 3,640,116, 2-8-72, Cl. 72-476.
- Hellman, Robert W.: *See—*
- Harris, John L.; and Hellman, Robert W., 3,696,453.
- Hellmann, Reinhold: *See—*
- Schneggenburger, Roger G.; and Hellmann, Reinhold, 3,639,139.
- Hellmer, Lars; and Nolle, Wolfgang, to Pintsch Bamag Aktiengesellschaft. Process for the preparation of nitric acid of different concentrations. 3,634,031, 1-11-72, Cl. 23-160.
- Hellmig, Ehrhard; and Recz, Ziegel, Erich, to Agfa-Gevaert Aktiengesellschaft. Material and a process for the production of color corrected reproductions. 3,663,220, 5-16-72, Cl. 96-6.
- Hellmig, Ehrhard, to Agfa-Gevaert Aktiengesellschaft. Process for the production of negative or positive continuous-tone or screened images thereof. 3,676,122, 7-11-72, Cl. 96-23.000.
- Hellmuth, Walter W., to Texaco Inc. Overbased alkaline earth metal sulfonate lube oil composition manufacture. 3,679,584, 7-25-72, Cl. 252-33.400.
- Hellquist, Ivan A., to AGA Aktiebolag. Breathing gas regulator for aviators. 3,672,384, 6-27-72, Cl. 137-39.000.
- Hellqvist, Ake Oscar Wilhelm, to Aktiebolaget Gustavsbergs Fabrik. Float-actuated valve. 3,633,610, 1-11-72, Cl. 137-398.
- Hellriegel, Edmund: *See—*
- Forsting, Bernard; Hellriegel, Edmund; and Pfadenhauer, Dieter, 3,700,076.
- Hellsten, Martin; and Emanuelsson, Jan, to Mo Och Domsjö Aktiebolag. Detergent compositions containing a sequestrant and optionally a bleaching agent having a reduced tendency to attack copper, zinc and aluminum. 3,655,569, 4-11-72, Cl. 252-99.
- Hellstrom, Harold Richard. Quick open flexible package. 3,635,376, 1-18-72, Cl. 222-107.
- Hellstrom, Harold Richard. Quick-opening fulcrum package. 3,689,458, 9-5-72, Cl. 206-56.0aa.
- Hellwarth, George A.: *See—*
- Boinodiris, Stavros; and Hellwarth, George A., 3,697,980.
- Hellwig, Helmut W., to United States of America, Army. Molecular frequency standard. 3,668,293, 6-6-72, Cl. 13-31.000.
- Hellwig, Helmut W., to United States of America, Army. Molecular frequency standard. 3,693,008, 9-19-72, Cl. 250-41.300.
- Hellwig, Karl: *See—*
- Lohr, Ludwig; and Hellwig, Karl, 3,650,250.
- Helm, Edward J., to Koppers Company, Inc. System for collecting dust and smoke when coke is pushed from a coke oven. 3,647,636, 3-7-72, Cl. 202-263.
- Helm, Frank R., to Champion Paper Products Company. Web splicing apparatus. 3,645,463, 2-29-72, Cl. 242-58.1.
- Helm, Herbert W.: *See—*
- Smithe, Eliot S.; and Helm, Herbert W., 3,641,883.
- Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Apparatus for aligning the pins on aligner chains of an envelope machine. 3,646,858, 3-7-72, Cl. 93-62.
- Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Apparatus for feeding a band of overlapped blanks to a separator. 3,650,527, 3-21-72, Cl. 271-76.
- Helm, Herbert W.; and Weir, Edgar V., to Smithe, F. L., Machine Company, Inc. Drive mechanism for an envelope machine. 3,656,036, 4-11-72, Cl. 318-41.
- Helm, Herbert W.; and Weir, Edgar V., to Smithe, F. L., Machine Company, Inc. Method and apparatus for controlling the heat intensity of an envelope machine drier. 3,657,825, 4-25-72, Cl. 34-41.
- Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Arrangement for adjustable split scoring of seal and bottom score of an envelope of a bag blank. 3,664,240, 5-23-72, Cl. 93-58.1.
- Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Apparatus for conveying envelope blanks through the seal flap adhesive drying section of an envelope making machine. 3,666,261, 5-30-72, Cl. 271-45.000.
- Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Patch cutting and application system for two independently timed patches on an envelope blank. 3,707,422, 12-26-72, Cl. 156-511.000.
- Helm, Jack D.: *See—*
- Conner, Joseph R.; Shovlin, Thomas F.; and Helm, Jack D., 3,680,421.
- Helm Tractor & Equipment Company: *See—*
- Holm, William Z., 3,699,922.
- Helmcke, Conrad: *See—*
- Bogenberger, Richard; Helmcke, Conrad; and Kritikos, Athanasios, 3,691,533.
- Helmer, Josef, to Daimler-Benz Aktiengesellschaft. Form-locking connection of torque-transmitting structural parts, especially in automatic motor vehicle transmissions. 3,706,364, 12-19-72, Cl. 192-48.920.
- Helmerich & Payne, Inc.: *See—*
- Howe, Ralph W., 3,682,186.
- Smith, Marvin Glenn, 3,699,735.
- Wright, Gerald T.; and Smith, Marvin G., 3,680,276.
- Helmers, Helmut; Werner, Georg; and Rix, Albert, to Olympia Werke AG. Apparatus for braking a tabulating carriage movement. 3,664,480, 5-23-72, Cl. 197-64.000.
- Helmes, Christiaan T.: *See—*
- Helmes, Gerardus P.; Helmes, Wilhelmina P. M.; Helmes, Christiaan T.; Helmes, Johan P. H.; and Helmes, Franciscus J., 3,655,479.
- Helmes, Franciscus J.: *See—*

- Helmes, Gerardus P.; Helmes, Wilhelmina P. M.; Helmes, Christiaan T.; Helmes, Johan P. H.; and Helmes, Franciscus J., 3,655,479.
- Helmes, Gerardus P.; Helmes, Wilhelmina P. M.; Helmes, Christiaan T.; Helmes, Johan P. H.; and Helmes, Franciscus J., to Helmes Machinefabriek N.V. Method for gluing a strip of material against the side of a flat work piece, like a table leaf, and a device for performing this method. 3,655,479, 4-11-72, Cl. 156-212.
- Helmes, Johan P. H.: *See—*
- Helmes, Gerardus P.; Helmes, Wilhelmina P. M.; Helmes, Christiaan T.; Helmes, Johan P. H.; and Helmes, Franciscus J., 3,655,479.
- Helmes Machinefabriek N.V.: *See—*
- Helmes, Gerardus P.; Helmes, Wilhelmina P. M.; Helmes, Christiaan T.; Helmes, Johan P. H.; and Helmes, Franciscus J., 3,655,479.
- Helmick, James William: *See—*
- Sherman, James Webster; and Helmick, James William, 3,687,168.
- Helmick, James William, to Johns-Manville Corporation. Method of forming fibrous bodies with dissimilar densities and apparatus therefor. 3,652,377, 3-28-72, Cl. 161-166.
- Helmick, James William; Goebel, Brownell Wesley; and Current, John Marvin, to Johns-Manville Corporation. Method and apparatus for fabricating flexible tubing. 3,682,746, 8-8-72, Cl. 156-429,000.
- Helmick, William E., to PPG Industries, Inc. Peracid treatment of keratinous fibers. 3,634,020, 1-11-72, Cl. 8-111.
- Helmig, Richard W., and Steinmetz, Floyd, to Rotographic Machinery Company, The. Loop stabilize web fed variable repeat cutter-creser system. 3,667,352, 6-6-72, Cl. 93-58,20r.
- Helminen, Toivo. Roll assembly. 3,633,493, 1-11-72, Cl. 100-162.
- Helminen, Toivo A., to Kimberly-Clark Corporation. Method and apparatus for affixing fasteners to a moving web. 3,668,771, 6-13-72, Cl. 29-431,000.
- Helmrich, William F., to Ex-Cell-O Corporation. Aerating fuel nozzle. 3,684,186, 8-15-72, Cl. 239-400,000.
- Helms, August R.: *See—*
- Rightmire, Glenn K.; Bossler, Alfred T.; Burnell, Arthur E.; and Helms, August R., 3,706,330.
- Helms, Charles Robert, to Container Corporation of America. Wraparound carrier. 3,635,452, 1-18-72, Cl. 229-40.
- Helms, Charles Robert, to Container Corporation of America. Divider partitions for bottle carriers. 3,662,879, 5-16-72, Cl. 206-65.
- Helms, Charles Robert, to Container Corporation of America. Finger hole arrangement for article carriers. 3,692,232, 9-19-72, Cl. 229-52,00b.
- Helms, Clifford J.; and Papadopoulos, Stelios B., to Data Products Corporation. Printer hammer bank assembly. 3,643,595, 2-22-72, Cl. 101-93.
- Helms, Clifford J.; and Papadopoulos, Stelios B., to Sperry Rand Corporation, mesne. Linear positioner. 3,666,977, 5-30-72, Cl. 310-13.
- Helms, Clifford J.; McMillan, Norman; and Papadopoulos, Stelios B., to Sperry Rand Corporation, mesne. Magnetic disc assembly. 3,700,855, 10-24-72, Cl. 219-388,000.
- Helms, Gerd: *See—*
- Brendt, Dieter; Helms, Gerd; and Keunecke, Gerhard, 3,699,008.
- Gehrken, Hubert; Helms, Gerd; Keunecke, Gerhard; and Krimphove, Herbert, 3,650,906.
- Gehrken, Hubert; Helms, Gerd; Keunecke, Gerhard; and Krimphove, Herbert, 3,655,521.
- Helms, Horace H., Jr.: *See—*
- Rozner, Alexander G.; and Helms, Horace H., Jr., 3,634,283.
- Helms, Horace H., Jr.; and Rozner, Alexander G., to United States of America, Navy. Pyrotechnic composition. 3,695,951, 10-3-72, Cl. 149-19,000.
- Helms, Hosea W. Power sanding device. 3,656,920, 4-18-72, Cl. 51-170.
- Helms, Millard O.; and Dunbar, Oris G. Vehicle wheel temperature monitoring system. 3,691,523, 9-12-72, Cl. 340-57,000.
- Helms, Thomas F., to Idex Corporation. Apparatus for testing articles. 3,633,406, 1-11-72, Cl. 73-45.5.
- Helmschrott, Norbert: *See—*
- Vogtlin, Karl; Holtz, Hermann; and Helmschrott, Norbert, 3,683,401.
- Helmuth, Klapp: *See—*
- Possberg, Jobst; Rostock, Kai; Nickl, Eligius; Otmar, Zajcek; and Helmuth, Klapp, 3,696,079.
- Helmuth, Werner; Frank, Dieter; and Drachenberg, Werner, to Akzona Incorporated. Process for the production of nonwoven webs of continuous filaments. 3,676,245, 7-11-72, Cl. 156-181,000.
- Helmuth, Gene R.: *See—*
- Asbelle, Charles C.; Arrigo, Michael F.; Hunting, Kenneth E.; and Helmuth, Gene R., 3,673,613.
- Helmuth, James G., to Chadwick-Halmuth Electronics, Inc. Stabilization of multiple shaker systems. 3,654,804, 4-11-72, Cl. 73-71.6.
- Helpert, Edward Philip: *See—*
- Rembert, Lawrence Arnold; and Helpert, Edward Philip, 3,670,153.
- Helrigel, Robert A.: *See—*
- Keithley, Harry E.; and Helrigel, Robert A., 3,699,882.
- Helrigel, Robert A.; and Ward, Roderick K., to Gulf & Western Industrial Products Company. Press frame. 3,665,847, 5-30-72, Cl. 100-231,000.
- Helrigel, Robert A.; and Ward, Roderick K., to Gulf & Western Industrial Products Company. Shut height counter drive for presses. 3,687,069, 8-29-72, Cl. 100-257,000.
- Helsell, John B. Ski slope traversing and conditioning vehicle. 3,650,343, 3-21-72, Cl. 180-5.
- Helseth, Richard Lee: *See—*
- Dunphy, Kenneth Robert; and Helseth, Richard Lee, 3,705,636.
- Helsley, Grover Cleveland: *See—*
- Duncan, Robert Louis, Jr.; and Helsley, Grover Cleveland, 3,642,779.
- Lunsford, Carl Dalton; Welstead, William John, Jr.; and Helsley, Grover Cleveland, 3,651,085.
- Welstead, William John, Jr.; and Helsley, Grover Cleveland, 3,634,441.
- Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. Benzimidazo[1,2-d][1,4]benzodiazepin-6(5H)-ones. 3,642,778, 2-15-72, Cl. 260-239.3.
- Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 4-(1-Substituted-3-pyrrolidinyl)-2H-1,4-benzoxazin-3(4H)-ones. 3,644,350, 2-22-72, Cl. 260-244.
- Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. Certain 1-[3-(lower-alkyl or phenyl carbamoyloxy)propyl]-4-phenyl-1,2,3,6-tetrahydropyridines and derivatives thereof. 3,644,381, 2-22-72, Cl. 260-295.
- Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 1-Carbamoyl-3-phenylpyrrolidines. 3,644,398, 2-22-72, Cl. 260-326.3.
- Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 1-Substituted-3-phenylpyrrolidines. 3,644,414, 2-22-72, Cl. 260-326.3.
- Helsley, Grover Cleveland; and Boswell, Robert Frederick, Jr., to Robins, A. H., Company Incorporated. 3-Aryloxy -8-carbamoyl-nortropanes. 3,657,253, 4-18-72, Cl. 260-292,000.
- Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 3-Aryl-8-carbamoyl nortropanes. 3,657,257, 4-18-72, Cl. 260-292,000.
- Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 11, 12-Dihydrodibenz [b,f] azocin-6 (5H)-ones. 3,676,432, 7-11-72, Cl. 260-239,30t.
- Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 1-Nitrosopyrrolidines. 3,694,458, 9-26-72, Cl. 260-326,50l.
- Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 4-[1-(*r*-Benzoylalkyl)-3-pyrrolidinyl]-2 H-1, 4-benzoxazin-3(4H)-ones. 3,699,105, 10-17-72, Cl. 260-244,00r.
- Helson, Lloyd W.: *See—*
- Grove, George L.; Stewart, Irving J.; and Helson, Lloyd W., 3,638,364.
- Helson, Charles J., to North American Rockwell Corporation. Material removing device. 3,661,315, 5-9-72, Cl. 228-20.
- Helson, Clyde W. Removable push rod guide for engine assembly. 3,698,060, 10-17-72, Cl. 29-200,00p.
- Helson, Marion P. Pipe laying apparatus. 3,686,888, 8-29-72, Cl. 61-72,100.
- Helvy, Fred Anderson, to RCA Corporation. Method of making a multialkali photocathode with improved sensitivity to infrared light and a photocathode made thereby. 3,658,400, 4-25-72, Cl. 316-5.
- Helwig, Lawrence E.; and Lewis, Leon L., to United States Steel Corporation. Corrosion resistant tin-free steel and method for producing same. 3,634,147, 1-11-72, Cl. 148-6.35.
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- Hemwall, Robert W., to Shell Oil Company. Leather lubricating process and composition. 3,656,881, 4-18-72, Cl. 8-94.23.
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- Crouthamel, Carl E.; Coleman, Lester F.; Bernstein, George J.; and Henault, Peter B., 3,663,363.
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- Boese, Harold L.; and Hencey, Thomas R., Jr., 3,681,609.
- Henchcliffe, Alfred L.: *See—*
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- Henderson, Albert E., Jr. Quick cure process for making superphosphates of low fluorine content. 3,672,828, 6-27-72, Cl. 23-109,000.
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- Henderson, Charles R., to LTV Aerospace Corporation. Harmonic information detection technique. 3,681,528, 8-1-72, Cl. 178-6.800.
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- Henderson, Craig, to Emerson & Cuming, Inc., mesne. Spray dried product for feed in the manufacture of hollow glass spheres and process for forming said spray dried product. 3,699,050, 10-17-72, Cl. 252-317,000.
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- Henderson, David L.: *See—*
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- Henderson, William E.; and Ross, Camilla B. Freezing-mixing process. 3,684,540, 8-15-72, Cl. 106-164,000.
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- Hendrickson, Paul G., to Kelsey-Hayes Company. Disk parking and service brake having servo action on parking brake only. 3,703,944, 11-28-72, Cl. 188-72.200.
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- Hendrickson, Robert T., to Hendrickson Mfg. Co. Vehicle suspension system. 3,653,683, 4-4-72, Cl. 280-124.
- Hendrickson, Roger L. Collapsible trap for crustaceans. 3,678,612, 7-25-72, Cl. 43-66.000.
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Kesterson, James W.; Hendrickson, Rudolph; and Atkins, Cedric Donald, 3,660,105.
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Kesterson, James W.; Hendrickson, Rudolph; and Atkins, Cedric Donald, 3,660,105.
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Rogers, Patrick F.; and Hendrickson, Warren L., 3,672,304.
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- Hendry, Allen J.; and Maier, Alfred E., to Westinghouse Electric Corporation. Motor operated circuit breaker control. 3,654,535, 4-4-72, Cl. 318-267.
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Becraft, Donald E., 3,640,400.
- Hendry, Charles Malcolm: See—
Champ, Antony E.; and Hendry, Charles Malcolm, 3,697,492.
- Hendry, David James: See—
Light, John Lloyd, 3,632,048.
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Johnson, Bruce K.; and Hendry, Donald H., 3,640,194.
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Michelotti, Joseph E.; and Henery, Vern A., 3,652,246.
- Hengehold, Leo L. Universal milling and boring machines. 3,654,818, 4-11-72, Cl. 74-331.
- Hengelhaupt, Hans-Georg; and Teichmann, Friedrich, to Triumph Werke Nurnberg AG. Device to cast off wound ribbon from a spool. 3,702,652, 11-14-72, Cl. 197-151.000.
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Pohlmann, Hans P.; Gutberlet, Louis C.; and Hengstebeck, Robert J., 3,651,162.
- Hengstebeck, Robert J., to Standard Oil Company (Indiana). Process for hydrocracking nitrogen-containing feedstocks. 3,657,110, 4-18-72, Cl. 208-89.
- Hengstler, J. K.G.: See—
Gruler, Josef; Borgonovi, Bruno; Streitberger, Ernst Friedrich Henning; and Kratt, Kurt Wilhelm, 3,646,326.
- Haller, Willi, 3,644,711.
- Kratt, Kurt, 3,670,152.
- Henicke, Heinz: See—
Rother, Wolfgang; Mordig, Eberhard; Wenzel, Erwin; Cronert, Dieter; Sand, Karl; Kasbohm, Joachim; Henicke, Heinz; Landmann, Helmut; and Stocker, Winfried, 3,701,881.
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Logan, William A.; Holmes, Richard M.; Denny, William M.; Mahon, Michael J.; Skalski, Stephen, III; Henige, Gerald L.; and Bedekar, Shreekant, 3,686,641.
- Henigman, Bobby J.: See—
Vassar, Jack K.; and Henigman, Bobby J., 3,650,365.
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Aggias, Zissis, 3,632,665.
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- Baum, Wilhelm; and Gierichs, Michael, 3,698,917.
- Berg, Markus; Fries, Walter; and Kirstahler, Alfred, 3,676,340.
- Berg, Markus; Fries, Walter; and Lohr, Albrecht, 3,689,424.
- Bloching, Helmut, 3,700,601.
- Budnowski, Manfred; and Lieske, Edgar, 3,707,527.
- Eckert, Hans-Werner; and Heins, Arnold, 3,637,495.
- Eckert, Hans-Werner; and Heins, Arnold, 3,654,166.
- Eckert, Hans-Werner; and Perner, Johannes Jurgen, 3,704,228.
- Elmar, Reinwald; and Galinke, Joachim, 3,707,465.
- Fries, Walter; Berg, Markus; Dohr, Manfred; and Kirstahler, Alfred, 3,676,338.
- Frotscher, Herbert; and Petzold, Manfred, 3,639,296.
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- Geisler, Roland; Jansen, Georg; and Germscheid, Hans Gunther, 3,687,858.
- Germscheid, Hans Gunther; and Geisler, Roland, 3,657,077.
- Gotte, Ernst, 3,640,883.
- Gotte, Ernst; and Heyden, Rudi, 3,649,544.
- Grunewald, Werner, 3,701,627.
- Hartenstein, Josef, 3,700,570.
- Heins, Arnold; Eckert, Hans-Werner; and Bellinger, Horst, 3,644,204.
- Jakobi, Gunter, 3,635,827.
- Kaloff, Hans K., 3,647,869.
- Klement, Gunter, 3,677,809.
- Lindner, Kurt; and Eichler, Elfriede, 3,658,712.
- Meye, Reinhold Walter; and Thor, Gunter, 3,663,671.
- Nagel, Horstmar; Berg, Markus; Lohr, Albrecht; and Adler, Wilfried, 3,700,600.
- Nosler, Heinz Gunter; Wessendorf, Richard; and Bellinger, Horst, 3,668,135.
- Nosler, Heinz Gunter; and Schnegelberger, Harald, 3,671,654.
- Plappert, Jurgen; and Pieper, Friedrich, 3,661,631.
- Reinwald, Elmar; and Galinke, Joachim, 3,707,466.
- Ruggeberg, Hans, 3,692,552.
- Saran, Herbert; and Budnowski, Manfred, 3,655,624.
- Saran, Herbert; and Budnowski, Manfred, 3,704,281.
- Schlusler, Hans-Joachim, 3,672,821.
- Schmadel, Edmund, 3,663,444.
- Schnegelberger, Harald; and Altenschopfer, Theodor, 3,679,589.
- Schussler, Hans-Joachim; and Scharf, Rolf, 3,696,057.

- Stein, Werner; and Flory, Klaus, 3,703,469.
- Stolpa, Gerhard, 3,676,468.
- Umbach, Wilfried; Mehren, Rainer; and Stein, Werner, 3,637,864.
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- Umbach, Wilfried; Mehren, Rainer; and Stein, Werner, 3,661,851.
- Umbach, Wilfried; Mehren, Rainer; Stein, Werner; and Gott, Ernst, 3,662,003.
- Umbach, Wilfried; Mehren, Rainer; and Stein, Werner, 3,662,004.
- Walter, Dieter; Fries, Walter; and Gotte, Ernst, 3,673,096.
- Wegemund, Bernd; and Galinke, Joachim, 3,642,750.
- Wegemund, Bernd; and Tauber, Gunter, 3,660,526.
- Wegemund, Bernd; and Galinke, Joachim, 3,661,876.
- Werdehausen, Achim; Heins, Arnold; and Dohr, Manfred, 3,650,962.
- Werdehausen, Achim; and Dohr, Manfred, 3,650,963.
- Werdehausen, Achim; and Krings, Peter, 3,686,128.
- Wessendorf, Richard; Nosler, Heinz Gunter; and Bellinger, Horst, 3,639,444.
- Wessendorf, Richard; and Bellinger, Horst, 3,651,124.
- Wessendorf, Richard, 3,658,921.
- Ziehr, Georg; and Heidenbluth, Heinz-Dieter, 3,653,983.
- Henkel, Allmen P., to Western Printing Machinery Co. Planetary sheet slowdown and laydown mechanism. 3,703,282, 11-21-72, Cl. 271-79.000.
- Henkel, Jahn-Joachim: See—
Mentschel, Hellmut; and Henkel, Jahn-Joachim, 3,704,965.
- Henkel, Michael A.: See—
Dreiza, John E.; Henkel, Michael A.; and Morgan, William F., 3,638,565.
- Henkel, Norman K., to Harris-Intertype Corporation. Disconnect arrangement for multi-unit printing press. 3,699,886, 10-24-72, Cl. 101-183.000.
- Henkel, Robert I.: See—
Johnson, Ralph L.; and Henkel, Robert I., 3,650,057.
- Henkenhae, Horst: See—
Schone, Helmut; Henkenhae, Horst; Vetter, Lothar; and Krause, Horst, 3,686,771.
- Henkes, John L., Jr., to General Electric Company. Stereoscopic enhancement of pictorial displays. 3,701,581, 10-31-72, Cl. 350-144.000.
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- Henkler, Herbert; Hartmann, Heinrich; Gulbins, Klaus; and Wilhelm, Hans, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Bonding photosensitive plates, sheeting or film to metallic supports. 3,654,021, 4-4-72, Cl. 156-331.
- Henle, Robert A.: See—
Bossen, Douglas C.; Henle, Robert A.; Hsiao, Mu Y.; Maley, Gerald A.; and Pricer, W. David, 3,675,200.
- Carter, William C.; Henle, Robert A.; Jessep, Donald C., Jr.; and Wadia, Aspi B., 3,688,265.
- Castrucci, Paul P.; Gates, Harlan R.; Henle, Robert A.; Pricer, Wilbur David; Morton, Robert M.; Mason, John W.; and North, William D., 3,641,516.
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- Henley, John C., III. Position locator. 3,690,009, 9-12-72, Cl. 33-1.0mp.
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- Henmi, Teruji: See—
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- Henmi, Yoshinori; Suzuki, Hideaki; and Kamiya, Tadao, to Nippon Toki Kabushiki Kaisha. Process for the manufacture of resin-bound abrasive grinder. 3,632,320, 1-4-72, Cl. 51-298.
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- Hennart, Claude: See—
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- Hennebert, Jacques: See—
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Cramer, Robert L.; Henneman, John W.; and Dunbar, Jack E., 3,693,653.
- Hennemuth, William R.: See—
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- Hennen, John Joseph, to Deere & Company. Harvesting machine. 3,701,239, 10-31-72, Cl. 56-13.500.
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- Hennessey, James J., Jr.; and Bollinger, Luther L., Sr., to Hennessey Products, Incorporated. Railway axle journal stop. 3,684,331, 8-15-72, Cl. 308-40.000.
- Hennessey, John A.: See—
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- Hennessey, John A., to Vendo Company, The. Coin totalizing apparatus. 3,642,108, 2-15-72, Cl. 194-1.
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Hagemeyer, Gunther; and Hennig, Eberhardt, 3,656,442.
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- Hennig, Hans Joachim; and Fischer, Peter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of polyisocyanates which contain a carbodiimide-isocyanate adduct. 3,640,966, 2-8-72, Cl. 260-77.5.
- Hennig, Karl-Friedrich; Reinecke, Erich; Merz, Herbert; Werner, Egon; Isernhagen, Fritz; Holthausen, Erwin; and Klatt, Alfred, to Westinghouse Bremsen- und Apparatebau GmbH. Anti-wheel slide apparatus for vehicles. 3,695,734, 10-3-72, Cl. 303-21.00f.
- Hennig, Kurt: See—
Hennig, Arnold; and Hennig, Kurt, 3,691,588.
- Hennig, Ralph R.: See—
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- Hennig, Walter, to Schwarzkopf Development Corporation. Process for production of rotary anodes for Roentgen tubes. 3,649,355, 3-14-72, Cl. 117-217.
- Henning, Bodo, to Volkswagenwerk Aktiengesellschaft. Safety steering wheel for power vehicles. 3,675,505, 7-11-72, Cl. 74-552.000.
- Henning, Donald S., to Autotrol Corporation. Snap action valve actuator. 3,685,792, 8-22-72, Cl. 251-75.000.
- Henning, Donald S., to Autotrol Corporation. Flapper valve assembly. 3,685,794, 8-22-72, Cl. 521-303.000.
- Henning, Eberhard, to Hell, Rudolf, Kommanditgesellschaft. Apparatus for producing corrected photographic color rastered reproductions. 3,671,666, 6-20-72, Cl. 178-6.70r.
- Henning, Gerardus Johannes: See—
Brouwer, Jan Nicolaas; Henning, Gerardus Johannes; and Van Der Wel, Hendrik, 3,682,880.

- Henning, Hans-Joachim: *See*—
Holzem, Heinz; and Henning, Hans-Joachim, 3,659,091.
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- Henning, Harley Barry, to Raytheon Company. Optical correction apparatus. 3,688,101, 8-29-72, Cl. 235-181.000.
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- Henning, Lester A.: *See*—
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- Henning, Robert W., to Olin Corporation. Tubular magazine and dispenser therefor. 3,698,115, 10-17-72, Cl. 42-49.00r.
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- Henning, Wolfgang. Hose clip. 3,648,335, 3-14-72, Cl. 24-279.
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- Hennings, Klaus: *See*—
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Bergquist, Dwight H., 3,648,753.
- Hennis, Henry E.; and Priddy, Duane B., to Dow Chemical Company, The. 2,2-Isopropylidenebis(6-lower alkoxy-m-phenylene)methylenebis(2-thiopseudourea) dihydrochloride. 3,636,109, 1-18-72, Cl. 260-564.
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Forter, Willy; Henrard, Armand; Kehrer, Fritz; Keller, Urs Martin; and Wasem, Hans, 3,671,514.
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Colardelle, Joel Serge; Girard, Pierre; and Henri, Claude Paul, 3,689,710.
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- Henrich, Werner. Wire drawing apparatus. 3,664,169, 5-23-72, Cl. 72-278.
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- Henrici, Gisela Henrici; and Martin, Salvador Olive, to Monsanto Company. Process for preparing 1,4-hexadiene. 3,647,902, 3-7-72, Cl. 260-680.
- Henrici, Helmut, to Linde Aktiengesellschaft. Method of and system for dissipating the heat generated by electronic control devices in cryogenic installations. 3,656,540, 4-18-72, Cl. 165-1.
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Scheiner, Bernard J.; Lindstrom, Roald E.; and Henrie, Thomas A., 3,639,222.
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- Henriksen, Neils Juul: *See*—
Petersen, Tom Kastrup; and Henriksen, Neils Juul, 3,701,939.
- Henrikson, Donald F.: *See*—
McGeough, Patrick L.; Gilbert, George J.; and Henrikson, Donald F., 3,651,434.
- Henriksson, Sune Torsten: *See*—
Kristoffersson, Harry; and Henriksson, Sune Torsten, 3,707,307.
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Bosonnet, Marc Edgar Marie; and Henrion, Michel Andre Robert, 3,657,483.
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- Henriot, Maurice. Prefabricated heating, ventilating and air conditioning unit. 3,685,575, 8-22-72, Cl. 165-48.000.
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Moseley, Royston L.; and Knowles, Peter M., 3,676,286.
- Henry, Carl L., to Regal Manufacturing Company. Yarn traverse mechanism. 3,680,801, 8-1-72, Cl. 242-43.100.
- Henry, Charles Frederick, to McCulloch Corporation. Multiple segment centrifugal clutch. 3,640,365, 2-8-72, Cl. 192-105.
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Wiley, Morris A.; Lacoste, Roger G.; Henry, Clemence J.; and Waldbillig, James O., 3,640,872.
- Henry, Colin Alexander: *See*—
Cothran, Samuel Bynum; and Henry, Colin Alexander, 3,685,644.
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Baum, Martin D.; and Henry, Cyrus P., Jr., 3,652,275.
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Lienemann, Darlo; and Henry, Daniel, 3,670,671.
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Hoff, Dale R.; and Henry, David W., 3,637,702.
- Sarett, Lewis H.; Hoff, Dale R.; and Henry, David W., 3,682,949.
- Henry, David W.; Hoff, Dale R.; and Patchett, Arthur A., to Merck & Co., Inc. Nitroimidazolyl derivatives. 3,632,817, 1-4-72, Cl. 260-309.000.
- Henry, David W., to United States of America, Army. 2-Phenyl-4-(1-adamantyl)-6-dimethylaminomethylphenol. 3,642,899, 2-15-72, Cl. 260-570.9.
- Henry, David W., to Merck & Co., Inc. 1-Substituted-5-nitroimidazole-2-carboximidates carboxylic acids. 3,644,392, 2-22-72, Cl. 260-309.
- Henry, David W.; and Hoff, Dale R., to Merck & Co., Inc. Novel nitroimidazole hydrazone derivatives. 3,646,016, 2-29-72, Cl. 260-240.
- Henry, Dominique, to Thomson-CSF. Telecommunication repeater traveling wave tube, frequency converting. 3,684,963, 8-15-72, Cl. 325-11.000.
- Henry, Donald E.: *See*—
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- Henry, Donald E., to Gulf & Western Industries, Inc., mesne. Process control system. 3,632,251, 1-4-72, Cl. 425-166.
- Henry, Francis B. Live action backboard. 3,692,307, 9-19-72, Cl. 273-29.00a.
- Henry, Frederick D. Flow valve. 3,636,981, 1-25-72, Cl. 137-625.46.
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Davies, Ben; and Henry, George R., 3,635,740.
- Henry, James L., to National Cash Register Company, The. Film canister. 3,670,982, 6-20-72, Cl. 242-71.200.
- Henry, James L.; and Schimpf, Luther G., to Bell Telephone Laboratories, Incorporated. Subscriber loop range extender. 3,671,676, 6-20-72, Cl. 179-16.00f.

- Henry, James William, to Eastman Kodak Company. Environmentally disintegratable plastic compositions comprising copolymers of ethylene and carbon monoxide and a degradation accelerator. 3,676,401, 7-11-72, Cl. 260-63.00c.
- Henry, Jean Claude: *See*—
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- Henry, Jean Claude; and Billon, Gerard, to Merlin Gerin Societe Anonyme. Double pressure compressed air electric apparatus having an air drying device. 3,701,867, 10-31-72, Cl. 200-148.00e.
- Henry, Jean Francois: *See*—
Fishman, Jerry Haskel; Henry, Jean Francois; and Tessore, Susanne, 3,645,860.
- Henry, Jean-Claude, to Merlin Gerin, Societe Anonyme. Compressed gas circuit interrupter having a closed-cycle high pressure heating circulation. 3,703,619, 11-21-72, Cl. 200-148.00e.
- Henry, Jennie. Method and apparatus for pleating fabric. 3,643,336, 2-22-72, Cl. 33-174.
- Henry, Joseph P.: *See*—
Trecker, David J.; Henry, Joseph P.; and Lynn, John W., 3,646,132.
- Henry, Luke F., to Allis-Chalmers Manufacturing Corporation. System to control plugging of vehicle direct current motor. 3,694,721, 9-26-72, Cl. 318-341.000.
- Henry, Malcolm C.; and Krebs, Adolf W. Methods of repelling rodents using tetrovalent organo-lead compounds. 3,683,090, 8-8-72, Cl. 424-293.000.
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Johnson, Lyman A.; and Henry, Michael F., 3,652,224.
- Henry, Michael F., to General Electric Company. Pre-passivation-anodic inhibitor-color method for detecting cracks in metal bodies. 3,664,883, 5-23-72, Cl. 148-6.200.
- Henry, Nelson R.; and Middour, Donald R., to Woodman Company, Inc., The. Vibrating clamp product settler. 3,668,815, 6-13-72, Cl. 53-24.
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- Henry, Nelson R.; and Middour, Donald R., to Woodman Company, Inc., The. Cam interrupted sealing jaws for product stripping. 3,685,250, 8-22-72, Cl. 53-100.000.
- Henry, Nelson R. Automatic filling and weighing apparatus. 3,706,587, 12-19-72, Cl. 177-1.000.
- Henry, O. Lee; and Pierce, William C., to Lear Siegler, Inc. Suspension structure for land vehicles. 3,707,298, 12-26-72, Cl. 280-124.00r.
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Drapen, Myron E.; and Henry, Ormond Lee, 3,675,330.
- Henry, Patrick M., to Hercules Incorporated. Isocyanate synthesis from amines and carbon monoxide catalyzed by PdCl₂. 3,641,092, 2-8-72, Cl. 260-453.
- Henry, Ralph E., to Dresser Industries, Inc. Packing for compressors, pumps or the like. 3,685,840, 8-22-72, Cl. 277-28.000.
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Ayres, William M.; and Henry, Ronald A., 3,677,841.
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Jones, Evan, 3,700,206.
- Luks, Kraemer D.; Jones, Evan; and Krause, Richard J., 3,653,839.
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Collins, Arthur A.; and Henry, Wesley B., 3,662,401.
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Grote, Herbert E.; and Henry, Wilbur G., 3,642,644.
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Alleman, Raymond Arthur; and Henry, William Nelson, 3,640,792.
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- Hensarling, Thomas P.: *See*—
Yatsu, Lawrence Y.; Jacks, Thomas J.; and Hensarling, Thomas P., 3,702,857.
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- Henschel, Werner, to Buss A.G. Mixing and kneading device. 3,650,511, 3-21-72, Cl. 259-104.
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Fortunato, Vincent, 3,647,078.
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Wiese, Lee R., 3,704,792.
- Henschen, Homer Ernst: *See*—
Desso, Jerome Andrew; and Henschen, Homer Ernst, 3,651,444.
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- Hense, Kurt R.: *See*—
Bacr, Herbert J.; Hense, Kurt R.; and Hofferer, Richard, 3,680,706.
- Hensel, Dwight L.: *See*—
Hoyt, Charles T.; Haun, John W.; Hensel, Dwight L.; Hansen, Clarence M.; Lovely, Walter G.; and Bruhn, Hjalmar D., 3,671,077.
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- Henselman, Richard O.; and Burkard, Herbert G., to Esso Research and Engineering Company. Synergistic dewaxing and composition. 3,639,226, 2-1-72, Cl. 208-37.
- Hensen, David, to Machinery and Gears Hansen. Series of gear speed reducers. 3,673,885, 7-4-72, Cl. 74-421.00r.
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- Hensenne, Joseph F., to Elphiac. Furnace and method of making same. 3,666,250, 5-30-72, Cl. 263-46.000.
- Henshaw, Charles Edward, to Pennwalt Corporation. Vacuum drying and stoppering apparatus. 3,668,819, 6-13-72, Cl. 53-102.000.
- Henshaw, David Ernest; and Stern, Lionel, to Commonwealth Scientific and Industrial Research Organization. Roller support means for roller twisting apparatus. 3,693,339, 9-26-72, Cl. 57-77.402.
- Henshaw, Jo Ann: *See*—
Aszalos, Adorjan; Robison, Robert S.; Kraemer, Nancy; Henshaw, Jo Ann; and Giannini, Mary Suzanne, 3,674,867.
- Henshaw, John M. Variable pattern three-dimensional game board. 3,661,391, 5-9-72, Cl. 273-131.
- Henshu Seishi Kabushiki Kaisha: *See*—
Tachibana, Sachihiko; Nakai, Susumu; Makino, Yoichi; Matsumura, Hisashi; Tabuchi, Kimitaka; Hiraoka, Michio; Akoh, Shigeichi; and Orito, Hiroshi, 3,644,078.
- Henslee, Cletus Ray. Movable stake pockets. 3,633,516, 1-11-72, Cl. 105-390.
- Hensler, Paul, to Porsche, Dr.-Ing. H.C.F., K.G., Firma. Installation in internal combustion engines for preventing the escape of fuel out of the mixture formation system into the atmosphere. 3,678,912, 7-25-72, Cl. 123-136.000.
- Hensley, Albert L., Jr.: *See*—
McCaulay, David A.; Hensley, Albert L., Jr.; and Mahoney, John A., 3,705,096.
- Hensley, Albert L., Jr., to Standard Oil Company (Indiana). Hydrocracking catalyst. 3,687,869, 8-29-72, Cl. 252-455.00z.
- Hensley, Billy R., to Certain-Teed Products Corporation. Closed mat forming system. 3,642,554, 2-15-72, Cl. 156-377.
- Hensley, Billy R. Vertically drain flat structures. 3,687,021, 8-29-72, Cl. 94-9.000.
- Hensley, Emmerly P.: *See*—
D'Arcy, Robert M.; Birtell, James C.; Hensley, Emmerly P.; and Pryor, Robert C., 3,667,744.
- Hensley, James L., to Carborundum Company, The. Sawing apparatus. 3,634,975, 1-18-72, Cl. 51-35.
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Henson, James H.; and Henson, Artel R., 3,687,053.
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- Henson, Douglas R.: *See*—
Worthington, Walter J.; and Henson, Douglas R., 3,657,852.
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Henson, Glen E.; and Fisher, Milton W. (said Fisher assor. to said), 3,640,530.
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Devitt, James J.; Henson, Rudy D.; and Powell, Thomas E., 3,632,701.
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- Hentschel, Gerhard: *See—*
Baumann, Gustav; and Hentschel, Gerhard, 3,658,179.
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Doring, Wolfgang; Frenzel, Bertram; Hentschel, Hans-Dieter; Kemter, Heinz; Mickenautsch, Werner; and Schmidt, Harry, 3,665,732.
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Rossler, Heinrich; and Hentschel, Manfred, 3,641,840.
- Hentschel, Valter Sven Erwin: *See—*
Hentschel, Gerhard Oskar, 3,692,684.
- Hentz, Lyle J.: *See—*
Cassidy, Glenn; Hartman, Donald A.; Hentz, Lyle J.; and Horn, William D., 3,702,952.
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Kuchenthal, Gunther; and Hentschel, Wolfgang, 3,646,689.
- Henzi, Rene: *See—*
Losi, Salvatore; Henzi, Rene; and Meyer, Andre, 3,692,641.
- Heob, Norvel J.; and Stoor, Jon D., to MSL Industries, Inc. Fan. 3,644,066, 2-22-72, Cl. 417-354.
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Engel, Christopher M.; and Hepner, Charles F., 3,643,011.
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Cooper, Lloyd R., 3,696,859.
- * Siegwart, Robert V., 3,680,907.
- Heppert, Donald E.: *See—*
Lal, Joginder; and Heppert, Donald E., 3,666,737.
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Bennett, Anthony B.; and Heppes, Aladar, 3,685,037.
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Glover, John B., 3,645,547.
- Hepworth, Paul: *See—*
Dart, Edward Charles; Foster, Richard Gregory; and Hepworth, Paul, 3,660,508.
- Foster, Richard Gregory; Joy, David Richard; Hepworth, Paul; and Dart, Edward Charles, 3,641,173.
- Foster, Richard Gregory; and Hepworth, Paul, 3,646,232.
- Foster, Richard Gregory; and Hepworth, Paul, 3,660,363.
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- Heraeus, W. C., GmbH: *See—*
Reichelt, Walter; Ruthardt, Konrad; and Speidel, Hermann, 3,672,850.
- Seiz, Richard, 3,697,237.
- Heraeus-Schott Quarzschmelze GmbH: *See—*
Bayer, Otto, 3,666,414.
- Jagdt, Reinhard; and Kloss, Ingo, 3,644,022.
- Herald Press, Inc., The: *See—*
Meyer, Herbert, 3,707,259.
- Heran, Robert F.; and Blackman, Calvin C. Method and apparatus for heating annular work pieces. 3,633,891, 1-11-72, Cl. 263-42.
- Herb, Carl C.: *See—*
Traver, Darwin G.; and Herb, Carl C., 3,677,164.
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- Herb, Philip J.: *See—*
O'Loughlin, Francis A.; and Herb, Philip J., 3,697,669.
- Herbage, Bernard S. Hub installing retaining and withdrawing device and method. 3,698,836, 10-17-72, Cl. 416-146.000.
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Trieschmann, Hans-Georg; Wisseroth, Karl; Scholl, Richard; and Herbeck, Rudolf, 3,639,377.
- Wisseroth, Karl; Trieschmann, Hans-Georg; Dodel, Peter; Hoehf, Lothar; Herbeck, Rudolf; and Scholl, Richard, 3,687,917.
- Herbell, Thomas P.: *See—*
Quatinetz Max; Wecton, John W.; and Herbell, Thomas P., 3,676,084.
- Herbenar, Edward J.: *See—*
Cass, Richard; and Herbenar, Edward J., 3,692,295.
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Orth, Peter, 3,665,306.
- Herbert, Alfred, Limited: *See—*
Harman, Julius; and Norman, Michael Eric, 3,689,088.
- Herbert, Daniel H. Pivotable axle. 3,700,255, 10-24-72, Cl. 280-81.00a.
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Balle, Walter, 3,641,855.
- Balle, Walter; and Held, Gerhard, 3,645,828.
- Herbert Products, Inc.: *See—*
Herbert, William C., Jr., 3,667,132.
- Herbert, William C., Jr., 3,697,806.

- Herbert, Wilhelm: *See—*
Bratzler, Karl; Herbert, Wilhelm; Hoehne, Reinhard; and Storp, Klaus, 3,637,352.
- Herbert, William, to Black Clawson Company, The. Screening apparatus. 3,698,649, 10-17-72, Cl. 241-44.000.
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- Herberts, Kurt, Dr., & Co. vorm. Herberts Otto Louis: *See—*
Ottmann, Gerhard; and Lilienbeck, Clemens, 3,656,998.
- Herberts, Kurt, Dr., & Co. vorm. Otto Louis Herberts: *See—*
Dobbelstein, Arnold; Hille, Hans-Dieter; and Momm, Anneliese Geb. Koziok, 3,676,403.
- Dobbelstein, Arnold; Hille, Hans-Dieter; and Holfort, Horst, 3,707,403.
- Gentsch, Erich; Berderke, Klaus; Seider, Walter; Fullner, Hans Jürgen; and Muhlmann, Christa, 3,700,483.
- Herbertz, Hans-Adolf: *See—*
Fetting, Fritz; Bockhorn, Henning; and Herbertz, Hans-Adolf, 3,661,494.
- Herbes, William Frank: *See—*
Stockel, Richard Frederick; Herbes, William Frank; and O'Brien, Samuel James, 3,644,083.
- Stockel, Richard Frederick; and Herbes, William Frank, 3,704,325.
- Herbold, Robert J.: *See—*
Buck, Willard E.; Herbold, Robert J.; and Sherman, Randy J., 3,698,514.
- Herbold, Werner R., to Blanc & Co. Holder for dished receptacles. 3,657,776, 4-25-72, Cl. 24-81.
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- Herbst, Burton C.: *See—*
Herbst, Lewis R.; Herbst, Burton C.; and Herbst, Wayne K., 3,706,356.
- Herbst, David R.: *See—*
Smith, Herchel; and Herbst, David R., 3,644,425.
- Herbst, John A., to Bogue Electric Manufacturing Company. Frequency meter. 3,704,414, 11-28-72, Cl. 324-79.00d.
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- Herbst, Wayne K.: *See—*
Herbst, Lewis R.; Herbst, Burton C.; and Herbst, Wayne K., 3,706,356.
- Herbsthofer, Franz Joseph, to Massey-Ferguson G.m.b.H. Rotating grain tank unloader. 3,664,525, 5-23-72, Cl. 214-17.00d.
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- Herbstman, Sheldon: *See—*
Patel, Jitendra A.; Herbstman, Sheldon; Peck, Reese A.; and Wilson, Raymond F., 3,668,117.
- Herbstman, Sheldon; and Peck, Reese A., to Texaco Inc. Process for improving the gel strength and flow properties of crude oil. 3,684,685, 8-15-72, Cl. 208-37.000.
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- Hercher, Michael; and Pike, Harold Alan, to Spectra Physics, Inc., mesne. Dye laser tunable by longitudinal dispersion in the dye cell. 3,707,687, 12-26-72, Cl. 331-94.500.
- Herckelboud et Fils: *See—*
Herckelboud, Jacques Pierre Albert, 3,676,957.
- Herckelboud et Fils Societe Anonyme: *See—*
Liouville, Roger, 3,670,781.
- Herckelboud, Jacques Pierre Albert, to Herckelboud et Fils. Spring grinding machines. 3,676,957, 7-18-72, Cl. 51-118.000.
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- Hercules Galion Products, Inc.: *See—*
Schwarz, John F.; and Bennett, Richard H., 3,643,588.
- Schwarz, John F., 3,681,569.
- Hercules Incorporated: *See—*
Aldrich, Paul H.; Bartell, Don G.; and Espy, Herbert H., 3,686,109.
- Andrews, Ray, 3,639,310.
- Bennahmias, Daniel; Locklin, Harry Paul; and Locklin, Paul Gordon, 3,682,854.
- Blunt, Barry W., 3,681,256.
- Bonyata, John O.; and Rohrbaugh, Lynn G., 3,637,444.
- Bower, Barton K.; and Long, Wendell P., 3,666,743.
- Bower, Barton K., 3,704,259.
- Bower, Barton K., 3,705,916.
- Boylan, Francis J., 3,705,859.
- Braak, Edmund C., 3,703,868.
- Brack, Karl, 3,632,586.
- Brack, Karl, 3,671,475.
- Brack, Karl, 3,706,685.
- Brack, Karl, 3,706,715.
- Breslow, David S., 3,640,974.
- Breslow, David S., 3,657,047.
- Breslow, David S., 3,670,023.
- Breslow, David S., 3,696,126.
- Buchanan, Jack M., 3,655,859.
- Buntin, George A., 3,644,521.
- Burkle, William C., 3,683,809.
- Burroughs, Ralph H.; and Cox, Paul R., Jr., 3,667,608.
- Carpenter, Charles W., 3,640,786.
- Cessna, Lawrence C., Jr., 3,651,187.
- Chien, James C. W.; and Schwarz, Robert J., 3,640,946.
- Cronin, Edward W., 3,649,731.
- Cronin, Edward W., 3,661,813.
- Dehm, Henry C.; and Mellow, Dale F., 3,655,836.
- Dehm, Henry C., 3,658,763.
- Dehm, Henry C.; and Mellow, Dale F., 3,676,533.
- DeVry, Frank E., 3,663,167.
- Downs, Ned E., 3,669,275.
- Driscoll, Hiram E., 3,683,811.
- Duswalt, Allen A., 3,692,687.
- Edwards, Louis J., 3,636,512.
- Edwards, Louis J.; Hopkins, Bruce D.; and Rice, Dennis D., 3,680,963.
- Evans, Richard H., 3,684,594.
- Fahnoe, Eric R., 3,638,101.
- Fee, Harry R.; and Hurley, Eldon K., 3,653,992.
- Feild, George B., 3,693,850.
- Foglesong, Rosalina S.; and Jabloner, Harold, 3,632,675.
- Fritz, Fred A., 3,654,866.
- Fritz, Fred A., 3,687,075.
- Gardner, William H.; and Stanley, Norval F., 3,637,490.
- Gelb, Leonard L., 3,681,185.
- Giambra, Edward H., 3,659,007.
- Gilby, Patricia G., 3,639,292.
- Gilby, Patricia G.; and Heineman, William R., 3,679,557.
- Gill, James W., 3,632,570.
- Gimler, John R.; Jurman, Stephen E.; and Schnettler, Robert W., 3,662,127.
- Gish, David S., 3,635,413.
- Golladay, Arthur D.; and Moran, Kevin E., 3,707,415.
- Graham, Donald P., 3,640,222.
- Gregory, George P., 3,658,914.
- Hall, John N., 3,651,186.
- Hall, John N., 3,704,485.
- Hamilton, John F.; and Pederson, Donald J., 3,640,585.
- Haubein, Albert H., 3,687,966.
- Haubein, Albert H., 3,702,760.
- Hawkins, William M., 3,705,399.
- Haynes, James N., 3,686,231.
- Heck, Richard F., 3,658,917.
- Heck, Richard F., 3,700,727.
- Heck, Richard F., 3,705,919.
- Henry, Patrick M., 3,641,092.
- Higgins, Wade L., Jr., 3,693,341.
- Jackson, David B., 3,684,142.
- Jamison, Joel D., 3,632,598.
- Jamison, Joel D., 3,668,213.
- John Andrew, 3,666,836.
- Jones, George F.; and Mendel, John R., 3,668,172.
- Josephson, Roy R., 3,636,168.
- Josephson, Roy R., 3,655,707.
- Keim, Gerald, 3,686,151.
- Keim, Gerald I., 3,700,623.
- Kim, Charles W., 3,631,666.
- Kim, Charles W., 3,680,303.
- Kim, Charles W., 3,705,070.
- Koll, Laurel A., 3,640,461.
- Kruse, Walter M., 3,641,067.
- Kutner, Abraham, 3,666,715.
- Lees, Ronald D.; and Smith, Ronald W., 3,691,086.
- Lehmann, Leonard T., 3,697,347.
- Leibfried, Raymond T., 3,670,013.
- Long, Wendell P., 3,635,935.
- Long, Wendell P., 3,639,378.

- Long, Wendell P., 3,639,379.
 Long, Wendell P., 3,694,422.
 Lukach, Carl A.; and Spurlin, Harold M., 3,645,890.
 MacDuff, Richard, 3,699,199.
 MacDuff, Richard; and Stewart, Paul M., 3,677,530.
 MacDuff, Richard, 3,704,188.
 Mahlman, Bert H., 3,664,981.
 Mahlman, Bert H., 3,665,059.
 Mahlman, Bert H., 3,689,597.
 Mahlman, Bert H.; and Spurlin, Harold M., 3,705,123.
 Matlack, Albert S.; and Schwarz, Robert J., 3,705,209.
 Moore, Alvin G., 3,631,729.
 Moore, Alvin G., 3,667,293.
 Newman, Philip G., 3,637,445.
 Nixon, Joseph R., Jr., 3,672,961.
 Olt, Robert L., 3,685,163.
 Pilcher, Frank C., 3,684,421.
 Rave, Terence W., 3,686,280.
 Roberson, William D., 3,656,963.
 Rosher, Ronald; and Simmons, Ronald L., 3,697,341.
 Samluk, Stanley D., 3,650,446.
 Sanderson, Thomas F., 3,655,635.
 Schappell, Frederick G., 3,668,259.
 Schappell, Frederick G., 3,681,316.
 Schuemann, Wilfred C., 3,635,095.
 Schwarz, Robert J., 3,645,962.
 Sloan, Martin F., 3,637,638.
 Sloan, Martin F., 3,692,720.
 Spurlin, Harold M., 3,676,466.
 Steller, Kenneth E., 3,642,667.
 Stow, Frederic S., Jr., 3,645,809.
 Sutphin, John A.; and Whippin, Marlen G., 3,642,961.
 Thomson, J. Brent, 3,697,551.
 Thomson, J. Brent, 3,705,911.
 Thomson, J. Brent, 3,706,592.
 Trask, James H., 3,649,191.
 Vandenberg, Edwin J., 3,632,840.
 Vandenberg, Edwin J., 3,634,303.
 Vandenberg, Edwin J., 3,637,613.
 Vandenberg, Edwin J., 3,639,267.
 Vandenberg, Edwin J., 3,640,908.
 Vandenberg, Edwin J., 3,645,917.
 Vandenberg, Edwin J., 3,655,586.
 Vandenberg, Edwin J., 3,657,149.
 Vandenberg, Edwin J., 3,657,158.
 Vandenberg, Edwin J., 3,657,159.
 Vandenberg, Edwin J., 3,660,314.
 Vandenberg, Edwin J., 3,678,136.
 Vandenberg, Edwin J.; and Willis, William D., 3,694,258.
 Vandenberg, Edwin J., 3,706,706.
 Walker, John F., 3,647,759.
 White, Dorothy E., 3,657,171.
 Willis, William D., 3,691,113.
 Hercules Incorporated, *mesne*: *See*—
 Houseman, John, 3,668,108.
 Staffin, Herbert Kenneth; and Staffin, Robert, 3,694,924.
 Hercules Manufacturing Company, Inc.: *See*—
 Kuchyt, Charles, 3,691,890.
 Hercules Packing Corporation: *See*—
 Horvath, Guy E., 3,643,968.
 Horvath, Guy E., 3,664,908.
 Hercules Protective Fabric Corporation: *See*—
 Hyman, Seymour; Bernstein, Bruce S.; and Kapoor, Ramesh (said Bernstein and said Kapoor assors. to), 3,705,938.
 Herczfelf, Bonita Falkner; Herczfelf, Peter R.; and Klafter, Richard D., to Drexel University. Heart rate and respiratory monitor. 3,704,706, 12-5-72, Cl. 128-2.00r.
 Herczfelf, Peter R.: *See*—
 Herczfelf, Bonita Falkner; Herczfelf, Peter R.; and Klafter, Richard D., 3,704,706.
 Herczog, Andrew: *See*—
 Asher, John W.; and Herczog, Andrew, 3,699,620.
 Herczog, Andrew; and Smith, Harold R., to Corning Glass Works. Method of making refractory metal carbide thin film resistors. 3,665,599, 5-30-72, Cl. 29-620.000.
 Herd, David P., to Rockwell Manufacturing Company. Well completion and apparatus. 3,678,996, 7-25-72, Cl. 166-500.
 Herd, Harold H.: *See*—
 Buckingham, Robert L.; and Herd, Harold H., 3,647,501.
 Herd, Harold H.; and Sun Theresa I., to International Business Machines Corporation. Method of making conductive silver images and emulsion therefor. 3,647,456, 3-7-72, Cl. 96-38.4.
 Herd, Joseph, to Maschinenfabrik Goebel GmbH. Perforating mechanism. 3,706,250, 12-19-72, Cl. 83-345.000.
 Herdeg, Donald F.: *See*—
 Rockwell, Adelbert W., Jr.; Herdeg, Donald F.; and Tardiff, Armand L., 3,641,651.
 Herden, Robert B. Camera in gun form. 3,688,665, 9-5-72, Cl. 95-12.000.
 Herden, Robert B., to Singer Company, The. Prismatic font accessing in phototypesetters. 3,698,297, 10-17-72, Cl. 95-4.50r.

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 Shultz, John E.; and Herderhorst, Wilfred W., 3,676,025.
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 Ragen, Robert A.; Herendeen, Carl E.; and Wood, Gary R., 3,678,471.
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 Hergeth KG Maschinenfabrik und Apparatebau: *See*—
 Wirth, Walter, 3,686,714.
 Herglotz, Harold J., to Westvaco Corporation. Overwrapped dispensing carton. 3,635,393, 1-18-72, Cl. 229-175.
 Hering, Klaus: *See*—
 Volker, Theodor; and Hering, Klaus, 3,697,583.
 Herion, John F., to FMC Corporation. Production of alkali-metal polyphosphates by spray drying. 3,661,514, 5-9-72, Cl. 23-107.
 Herion, Dieter: *See*—
 Griehl, Wolfgang; and Herion, Dieter, 3,642,971.
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 Garvin, Hugh L.; Herman, Elvin E.; and Law, Russell R., 3,659,510.
 Herman, Elvin E., to Hughes Aircraft Company. Signal converting system using barrier grid-type storage tube. 3,633,064, 1-4-72, Cl. 315-12.
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 Rembaum, Alan; and Hermann, Allen M., 3,641,470.
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 Fest, Christa; and Hermann, Gunther, 3,636,105.
 Fest, Christa; and Hermann, Gunther, 3,657,454.
 Schrader, Gerhard; and Hermann, Gunther, 3,686,257.
 Hermann, Hans Dieter: *See*—
 Burg, Karlheinz; Gutweiler, Klemens; and Hermann, Hans Dieter, 3,639,349.
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 Hermann, Leroy Nicholas: *See*—
 Ackermann, Harry John; Blessin, Louis Dewey; Hermann, Leroy Nicholas; Ririe, Max Henry; and Swinbank, Everett John, 3,693,593.
 Hermann, Philip E.: *See*—
 Giontzenli, Kiamil; and Hermann, Philip E., 3,651,420.
 Hermann, Robert. Firearm lock. 3,634,963, 1-18-72, Cl. 42-1.
 Hermann, Robert A.: *See*—
 Divecha, Amarnath P.; Lare, Paul J.; Ordway, Fred, Jr.; Hermann, Robert A.; Van Blaricon, Orville B.; and Hahn, Henry, 3,668,748.
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 Fellows, Charles T.; and Hermann, Stanley R., 3,639,166.
 Fellows, Charles T.; Hermann, Stanley R.; and Hochwalt, Norman C., 3,689,316.
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 Hermanns, Henry M.: *See*—
 Mannherz, Elmer D.; and Hermanns, Henry M., 3,695,104.
 Hermanns, Leonard S., to Mech-El Industries, Inc. Apparatus for improving alignment of beam leaded bonding tools. 3,700,155, 10-24-72, Cl. 228-3.000.
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 Hermes, Walter L.: *See*—
 Corwin, Howard R.; Hermes, Walter L.; and Jones, Charles, 3,691,792.
 Hermes, Walter L.; and Jones, Charles, to Curtiss-Wright Corporation. Rotor and gear assembly for rotary mechanisms. 3,655,302, 4-11-72, Cl. 418-61.
 Hermetic Coil Co., Inc.: *See*—
 Davis, Dhu Aine J., 3,634,878.
 Davis, Dhu Aine J., 3,660,791.
 Hermieu, Max R. L., to Machines Automatiques Modernes. Photoelectric measuring devices. 3,664,752, 5-23-72, Cl. 356-206.
 Hermle, Paul A.; and Payne, Philip A., to Eastman Kodak Company. Apparatus for positioning strip ends in a splicing alignment. 3,654,034, 4-4-72, Cl. 156-502.
 Herms, Gunter. Housing for roller blinds. 3,658,111, 4-25-72, Cl. 160-26.
 Hermsdorf, Horst: *See*—
 Psencik, Erich; Hermsdorf, Horst; and Vltavsky, Horst, 3,684,565.
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 Scott, J. O.; and Hern, Charles L., 3,661,208.
 Hern, John F.; Surlitta, Zygmunt M.; and Michaluk, Bob D., to Lear Siegler, Inc. Sofa bed assembly. 3,634,893, 1-18-72, Cl. 5-37.
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 Hernandez, Francois: *See*—
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 Hernandez, Manuel. Rotatable electric contact. 3,654,582, 4-4-72, Cl. 339-8.
 Hernandez, Snowden. Multipurpose adjustable occlusal fork. 3,693,260, 9-26-72, Cl. 32-32.000.
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 Morgan, Daniel H.; and Herndon, Jackie E., 3,654,598.
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 Herndon, Nancy: *See*—
 Siegal, Burton L.; and Herndon, Steve, 3,637,448.
 Herndon, Robert R. Trailer stabilizer. 3,690,694, 9-12-72, Cl. 280-150.500.
 Herndon, Steve: *See*—
 Siegal, Burton L.; and Herndon, Steve, 3,637,448.
 Herner, Raymond F.: *See*—
 Hammond, Michael J.; and Herner, Raymond F., 3,649,216.
 Hammond, Michael J.; and Herner, Raymond F., 3,684,546.
 Hernqvist, Karl G., to RCA Corporation. Ion discharge tube employing cathaphoretic techniques. 3,639,804, 2-1-72, Cl. 315-108.
 Hernqvist, Karl Gerhard, to RCA Corporation. Gas laser discharge tube. 3,683,295, 8-8-72, Cl. 331-94.500.
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 Herog, Milton W.: *See*—
 Fisher, Robert; and Herog, Milton W., 3,650,408.
 Herold, Carl D., Jr.: *See*—
 Bidell, Frederick W.; Herold, Carl D., Jr.; and Lindholm, James H., 3,706,933.
 Herold, Guenther K.: *See*—
 Deem, Brian C.; and Herold, Guenther K., 3,645,585.
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- Heron Establishment: See—
- Garavelli, Giancarlo, 3,660,988.
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- Herper, Eugen: See—
- Romhild, Peter; and Herper, Eugen, 3,669,371.
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- Herr, Charles H.: See—
- Franz, Maurice F.; Herr, Charles H.; Newman, Harry B.; and Webber, Philip S., 3,667,309.
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- Herremans, Pieter Gommer. Photographic colour correction method. 3,684,501, 8-15-72, Cl. 96-5.000.
- Herrero, Jose: See—
- Rheiner, Alfred, Jr.; Fernex, Michel; and Herrero, Jose, 3,674,872.
- Herrett, Wilfred H., to Acme Manufacturing Company, Inc. Planting machine and size-adjustable hopper therefor. 3,683,829, 8-15-72, Cl. 111-73.000.
- Herrick, Aaron B.: See—
- Jungermann, Eric; Herrick, Aaron B.; and Carlo, Armando, 3,650,831.
- Herrick, Catlyle S., to General Electric Company. Metallic laminated structure and method. 3,652,355, 3-28-72, Cl. 156-151.
- Herrick, Frank T.: See—
- Reuter, Floyd W.; and Herrick, Frank T., 3,684,026.
- Herrick, Franklin W.: See—
- Casebier, Ronald L.; Herrick, Franklin W.; Gray, Kenneth R.; and Johnston, Frederic A., 3,677,818.
- Herrick, Franklin Willard: See—
- Gray, Kenneth Russell; Van Blaricom, Lloyd Eugene; Herrick, Franklin Willard; and Deweyert, Harvey Rudolph, 3,706,545.
- Herriman, John Dennis; and Hare, Alan Lawrence, to British Titan Limited. Apparatus for oxidizing a metal halide. 3,657,107, 4-18-72, Cl. 204-323.
- Herrin, Lenard H.: See—
- Herrin, Melvin B.; and Herrin, Lenard H., 3,645,024.
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- Herring, James M., Jr.: See—
- Santos, Gerard R.; and Herring, James M., Jr., 3,674,107.
- Herring, James M., Jr., to Boothe Airside Services, Inc., mesne. Vehicle control line connections. 3,646,282, 2-29-72, Cl. 191-12.
- Herring, James M., Jr., to Budd Company, The. Lateral car stabilizing system. 3,695,186, 10-3-72, Cl. 105-171.000.
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- Herrington, Francis Walter; and McClure, James D. Wheel assembly. 3,690,648, 9-12-72, Cl. 271-51.000.
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- Herrington, Richard A.: See—
- Oelke, Waldemar W.; O'Connell, Thomas B.; and Herrington, Richard A., 3,637,362.
- Herriott, Donald Richard: See—
- Gallagher, John Everett; and Herriott, Donald Richard, 3,694,088.
- Herriott, Donald Richard; and Rawson, Eric Gordon, to Bell Telephone Laboratories, Incorporated. Focus and magnification adjustment of a high-performance camera. 3,677,651, 7-18-72, Cl. 356-126.000.
- Herrlich, Michael: See—
- Gottweis, Gert; Herrlich, Michael; Klas, Gunther; Schober, Joachim; Thiede, Peter; and Zachaus, Eberhard, 3,676,978.
- Herrmann, Berthold: See—
- Gruschka, Bernhard; and Herrmann, Berthold, 3,691,768.
- Herrmann, Carl, Associates, Inc.: See—
- Mahl, Gunard O. B., 3,643,625.
- Herrmann, Cleo: See—
- Yant, Milfred R., 3,652,447.
- Herrmann, Donald Charles; and Bazin, Lucas John, to RCA Corporation. Feedback clipper. 3,651,339, 3-21-72, Cl. 307-237.
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- Herrmann, Friedrich: See—
- Golde, Hans; Herrmann, Friedrich; Kouth, Herbert; and Marr, Fritz, 3,675,371.
- Golde, Hans; and Herrmann, Friedrich, 3,681,874.
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- Herrmann, Helmut: See—
- Clauss, Gerhard; and Herrmann, Helmut, 3,682,241.
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- Herrmann, Kurt: See—
- Ankenbrand, Fritz; Herrmann, Kurt; and Wilke, Werner G., 3,681,138.
- Herrmann, Otto: See—
- Krall, Heriberto; Maag, Helmut; Herrmann, Otto; and Posl, Rudolf, 3,669,176.
- Herrmann, Pierre, to Compteurs Schlumberger. Infrared gas analyser. 3,678,262, 7-18-72, Cl. 250-43.50r.
- Herrmann, Samuel: See—
- Yant, Milfred R., 3,652,447.
- Herrmann, Thomas R. Drafting apparatus and method of use thereof. 3,638,318, 2-1-72, Cl. 33-75.
- Herrmann, Wolfgang: See—
- Satzinger, Gerhard; and Herrmann, Wolfgang, 3,634,489.
- Herrnring, Heinz Gunther, to Montblanc-Simplo GmbH. Fountain pen. 3,659,954, 5-2-72, Cl. 401-223.
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- Herron, Lorne Robert: See—
- Lauber, Ernst Abraham; and Herron, Lorne Robert, 3,647,263.
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- Herron, Ronald L.: See—

- Smith, Robert D.; and Herron, Ronald L., 3,660,192.
- Herschberger, Russell R.: See—
- Goslin, Gerald E.; Herschberger, Russell R.; and Mach, George J., 3,667,718.
- Herscovici, Saul: See—
- Lemons, David Forrest; Marquart, Gordon Le Roy; and Herscovici, Saul, 3,701,393.
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- Hersey Products, Inc.: See—
- Foster, Harry C., 3,685,735.
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Herzer, Kurt; and Mertens, Wolfgang, 3,655,241.
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Mertens, Wolfgang, 3,692,356.
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Strangfeld, Reiner, 3,686,997.
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Mawhinney, Albert B.; and Herzog, Ellwood P., 3,670,407.
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Popper, Thomas L.; Herzog, Hershel L.; and Shapiro, Elliot L., 3,707,487.
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Klotzbach, Kurt; and Herzog, Johann, 3,669,808.
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Fisher, Robert; and Herzog, Milton W., 3,661,271.
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Fukumura, Masataka; Shimago, Kozo; Okano, Shigeru; Nakatani, Hiroshi; and Hesaka, Kenji, 3,666,756.
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Brooker, Leslie G. S.; Fumia, Arthur, Jr.; and Heseltine, Donald W., 3,652,289.
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Gorgens, Joseph E.; Heske, William A.; and Goff, Randall, 3,691,843.
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Burkhalter, Robert, Jr.; Heskett, Don Edward; and Hoover, Frank Kryder, 3,669,148.
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Davis, Lewis M.; and Hesling, Donald M., 3,695,622.
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Alvi, Zia R.; Heslop, Victor L.; and Summerlin, Frederick A., 3,695,088.
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Hill, Vernon L.; Nichols, Harry R.; and Hess, Alan L., 3,679,494.
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Cathers, Richard T.; Douglass, William M.; Hess, Frederick D., Jr.; Morris, John; and Roberts, James E., 3,666,211.
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Hess, Marlin F.; and Hess, Grace A., 3,670,798.
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De Angelis, Gerald George; and Hess, Hans-Jurgen Ernst, 3,706,747.
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Cole, Edward L.; and Hess, Howard V., 3,642,620.
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Knell, Bernhard; Desfossez, Paul; Hess, Walter; and Schulz, Hans-Dieter, 3,638,713.
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Porter, William I.; Hindsley, Frank W.; and Hesse, James E., 3,688,406.
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Barton, Derek H. R.; and Hesse, Robert H., 3,687,943.
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Hesse, Holger; and Ruben, Henning M., 3,700,000.
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Plester, Karl Heinz; and Hessel, Heinz, 3,656,411.
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Sjoo, Bertil Roland, 3,705,519.
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Beck, Otto; and Spalding, Georg, 3,700,854.
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Seckelmann, Herbert, 3,680,746.
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Murphy, John F., 3,644,010.
- Hesston Corporation: *See—*
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- Gaeddert, Melvin V.; and Wiggers, Verlin, 3,669,123.
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- McCanse, James E., 3,680,292.
- White, Allen A.; Garrison, Harold Keith; and Brooks, Dean P., 3,691,741.
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- Hester, Jackson B., Jr., to Upjohn Company. The. Tetra- and hexahydro-phenylpyrrolo benzodiazepines and intermediates. 3,651,083, 3-21-72, Cl. 260-326.5.
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- Hester, James F. Material handling apparatus, method and article formed therefrom. 3,664,284, 5-23-72, Cl. 112-152,000.

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- Hester, Thomas M., Sr. Multipurpose table. 3,653,339, 4-4-72, Cl. 108-1.
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Sickel, Hans-Werner, 3,664,695.
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Chambers, William W.; and Heston, David J., 3,642,389.
- Heston, Eugene E. Screen changer mounting. 3,675,934, 7-11-72, Cl. 277-12.000.
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- Heth, Gene A., to Whirlpool Corporation. Automatic control with room air sampling means for window air conditioner. 3,635,044, 1-18-72, Cl. 62-157.
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Akgulian, Sahag C.; Haffner, Donald G.; and Heth, Sherman C., 3,668,844.
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Hutchinson, Eric; and Hetherington, Gordon, 3,699,308.
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Bonneville, Gerald D.; Hetke, Adolf; and Free, William N., 3,702,169.
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- Hetrich, Arthur Ronald, to Raybestos-Manhattan, Inc. Method and apparatus for forming corrugated plastic tubing. 3,692,889, 9-19-72, Cl. 264-92.000.
- Hetrich, Harold Arthur, to Western Electric Company, Incorporated. Fluidic masking apparatus for etching. 3,701,705, 10-31-72, Cl. 156-345.000.
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Kim, Manfred; Hahner, Reinhard; Stroeze, Reinhold; Hettich, Alfred; and Burklin, Max, 3,680,642.
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- Hettick, George R.; and Lawson, Shelby D., to Phillips Petroleum Company. Catalytic cracking method. 3,658,693, 4-25-72, Cl. 208-93.
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Nieswandt, Werner; Linge, Hermann; Pirzer, Hans; Hoerauf, Werner; and Hetz, Herbert, 3,639,659.
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Cervenka, Joseph J.; and Hetzler, Marvin E., 3,646,654.
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- Hetzinger, Erich: See—
Fritsch, Walter; Hetzinger, Erich; and Wörner, Karl, 3,705,508.
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Huntzinger, Gerald O.; Hetzler, Lewis R.; and Templin, Jackson R., 3,646,301.
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Scherer, Otto; and Heubach, Gunther, 3,632,821.
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Brinckman, Eric Maria; Van Den Heuvel, Walter August; Vanhalst, Johan Eugene; and Heugebaert, Frans Clement, 3,700,452.
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- Vrancken, Marcel Nicolas; Brinckman, Eric Maria; and Heugebaert, Frans Clement, 3,674,483.
- Willems, Jozef Frans; Heugebaert, Frans Clement; and Pollet, Robert Joseph, 3,667,957.
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Richard, Georges A. L.; Cognet, Jean-Marie F.; Heullant, Jean; and Vallier, Jean-Pierre, 3,662,067.
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Barnett, Allen M.; Galginitis, Simeon V.; and Heumann, Frederick K., 3,703,656.
- Heuner, Robert Charles; and Fillmore, Richard Plumb, to RCA Corporation. Field-effect transistor circuit for detecting changes in voltage level. 3,702,943, 11-14-72, Cl. 307-235.000.
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Frederiksen, Christopher W.; and Heusdens, Wilhelmus, 3,662,671.
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Kiesow, Wilhelm; and Heuser, Gerhard, 3,701,196.
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Parker, Gordon M.; and Heuser, Raymond C., 3,690,927.
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- Heusler, Karl; and Woodward, Robert Burns, to Ciba-Geigy Corporation. Isopropenylmercapto-3- α -acylamino-azetidin-4-ones. 3,703,512, 11-21-72, Cl. 260-239.00a.
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- Heverly, Harold R.: See—
Delong, William T.; Szumachowski, Edwin R.; and Heverly, Harold R., 3,704,149.
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Pelle, Jozsef; and Varga, Laszlo, 3,689,018.
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- Hewes, Ellsworth D.; and Kaupp, Norbett H., to Xerox Corporation. Xerographic reproduction machine. 3,661,452, 5-9-72, Cl. 355-3.
- Hewitt, Daniel B. Incineration apparatus. 3,682,599, 8-8-72, Cl. 23-277.00c.
- Hewitt, Fred G., to Sperry Rand Corporation. Magneto-optic phase correlator. 3,639,744, 2-1-72, Cl. 235-181.
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- Hewitt, John H., to Goodyear Tire & Rubber Company, The. Automatic tension sensing apparatus for belt conveyor. 3,675,482, 7-11-72, Cl. 73-144.000.
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- Hewitt, Robert E.: See—
Britt, James E.; and Hewitt, Robert E., 3,670,700.
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- Lyles, James M.; Hewitt, Robert E.; Hilt, Glenn L.; and Britt, James E., 3,638,610.
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Dumesnil, Maurice E.; Hewitt, Robert R.; and Bozarth, Joseph L., 3,650,778.
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Adler, Imre; Felts, Louis; and Klucheff, Nicholas S., 3,642,153.
- Diantonio, Daniel J., 3,643,793.
- Faunce, Stuart F.; Stout, William E.; and Koehler, Harold W., 3,661,246.
- Lippmann, Arthur W., 3,666,188.
- Hewko, Lubomyr O.: See—
Kepple, Richard K.; Hewko, Lubomyr O.; and Rogers, Arden W., 3,702,084.
- Hewko, Lubomyr O., to General Motors Corporation. Roller traction drive. 3,641,842, 2-15-72, Cl. 74-665.
- Hewko, Lubomyr O.; and Kepple, Richard K., to General Motors Corporation. Transmission. 3,702,083, 11-7-72, Cl. 74-752.00e.
- Hewlett, Clarence Wilson, Jr., to General Electric Company. Rectifier bridge type wattmeter. 3,662,264, 5-9-72, Cl. 324-142.
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Cubbon, Robert C. P.; Braid, John E.; and Hewlett, Colin, 3,639,425.
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Allen, Daniel E., 3,701,992.
- Bagley, Alan S.; Band, Ian T.; and Hill, Charles M., 3,632,998.
- Bagley, Alan S.; Cutler, Leonard S.; and Rando, Joseph F., 3,656,853.
- Band, Ian T., 3,693,097.
- Barrett, John C.; Borden, Howard C.; and Loebner, Egon E., 3,701,123.
- Besser, Leslie, 3,649,925.
- Bohley, Thomas K., 3,649,852.
- Chaney, Robert L., 3,699,383.
- Cochran, David S.; and McGhee, Glenn E., 3,668,697.
- Cutler, Leonard S.; and Hammond, Donald L., 3,667,038.
- Cutler, Leonard S.; Holloway, Joseph H.; and Turner, Wilson R., 3,675,149.
- Dukes, John N., 3,674,371.
- Dukes, John N., 3,679,934.
- Dukes, John N., 3,701,042.
- Dupre, John J., 3,668,554.
- Gordon, Gary B., 3,638,001.
- Gordon, Gary B.; and Garman, Jonathan D., 3,654,446.
- Gordon, Gary B., 3,670,245.
- Gordon, Gary B., 3,697,960.
- Gray, Douglas A.; and Heinz, William W., 3,633,104.
- Gustafson, Charles H., 3,673,323.
- Hammond, Donald L., 3,655,265.
- Hammond, Donald L., 3,701,583.
- Hay, Robert R., 3,643,126.
- Hearn, John R., 3,644,015.
- Hearn, John R., 3,653,765.
- Hiskes, Ronald, 3,697,320.
- Jackson, Weldon H.; Robison, Billie J.; and Hewlett-Packard Company, 3,661,758.
- Justice, Gregory, 3,639,846.
- Kruger, William P., 3,699,997.
- Kusters, John A., 3,632,193.
- Kusters, John A., 3,687,521.
- Kusters, John A., 3,698,792.
- Lacey, Richard F.; Cutter, Leonard S.; and Turner Wilson S., 3,670,171.
- Lightner, Gene E., 3,680,377.
- Mast, Robert E., 3,697,851.
- Mordan, William J., 3,706,904.
- Osborne, Thomas E., 3,641,328.
- Osborne, Thomas E., 3,668,461.
- Osborne, Thomas E., 3,704,448.
- Ritzenthaler, Jean, 3,671,852.
- Schmidhauser, Rolf, 3,639,843.
- Skokan, Zdenek E., 3,643,109.
- Spangler, Richard M., 3,675,213.
- Spangler, Richard M., 3,678,466.
- Spangler, Richard M., 3,693,162.
- Suzuki, Kazu, 3,638,549.
- Szente, Pedro A.; and Joly, Robert, 3,671,888.
- Taylor, Robert L., 3,697,862.
- Tickle, Andrew C., 3,660,827.
- Wade, John M., 3,653,059.
- Hewlett-Packard GmbH: See—
Reidmann, Manfred; and Eichner, Martin, 3,677,709.
- Hexcel Corporation: See—
Bishop, Ernest M., 3,687,882.
- Hull, Harold Robert, 3,675,522.
- Jackson, Wendell T.; Garrett, Beverley R.; and Vicars, Earl C., 3,673,058.
- Jackson, Wendell T.; and Balaban, Martin M., 3,690,161.
- Taylor, Robert S., 3,704,090.
- Hey, Denis; and Dieterman, Alfred Johannes, to Energy Industries (Canada) Ltd., mesne. Production of wet process phosphoric acid. 3,653,827, 4-4-72, Cl. 23-165.
- Heyden, Gary F.: See—
Flournoy, James W.; and Heyden, Gary F., 3,638,983.
- Heyden, Guenter, to Winkler & Dunneberg Maschinenfabrik und Eisengiesserei KG. Apparatus for attaching backing to a die. 3,686,980, 8-29-72, Cl. 76-4.000.
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Gotte, Ernst; and Heyden, Rudi, 3,649,544.
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Muller, Erwin; and Heydkamp, Wolfgang, 3,663,603.
- Traubel, Harro; Zorn, Bruno; König, Klaus; and Heydkamp, Wolfgang, 3,646,178.
- Heydt, Gerald B.: See—
Ackermann, Friedrich W.; Casani, Ronald T.; Klawitter, William A.; and Heydt, Gerald B., 3,634,072.
- Heye, Hermann: See—
Becker, Kurt, 3,644,111.
- Borchering, Karl, 3,678,630.
- Fischer, Knut, 3,687,559.
- Sendt, Alfred, 3,640,517.
- Heye, Hermann, Firma: See—
Sendt, Alfred, 3,644,110.
- Heyek, Gerhard. Cutter head for dry shaving apparatus. 3,704,518, 12-5-72, Cl. 30-346.510.
- Heyer, John A., to Victory Metal Manufacturing Corporation. Vaporizer with external heating element. 3,683,153, 8-8-72, Cl. 219-275.000.
- Heyer, William T.; and Soukup, Dale F. Timer valve. 3,638,682, 2-1-72, Cl. 137-624.12.
- Heyer, William T., to Heyer-Schulte Corporation. Device and method for measuring intracranial pressure. 3,669,094, 6-13-72, Cl. 128-2.
- Heyer, William T., to Heyer-Schulte Corporation. Drainage catheter with anti-clogging means. 3,669,116, 6-13-72, Cl. 128-350.00r.
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Rassmann, Christoph; and Heyer, Willy, 3,640,581.
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Heyer, William T., 3,669,094.
- Heyer, William T., 3,669,116.
- Heyl and Patterson, Inc.: See—
Rose, Bennie A., 3,695,185.
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- Heyl, Walter, to Linde Aktiengesellschaft. Axial-piston machine. 3,678,804, 7-25-72, Cl. 91-507.000.
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Wrona, Carl; and Heylands, Wilhelmus Frinciscus Aloysius, 3,653,601.
- Heylen, Renaat Frans: See—
Van Den Heuvel, Walter August; Willems, Jozef Frans; Philippaerts, Herman Adelbert; Beels, Roland Francois; and Heylen, Renaat Frans, 3,661,584.
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Klumpp, Ferdinand, Jr., 3,701,505.
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- Heyman, Philip Michael; and Gorog, Istvan, to RCA Corporation. Method of improving the α of a cathodochromic display device. 3,706,845, 12-19-72, Cl. 178-7.50d.

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Gabler, Hellmut; Harnisch, Heinz; Heymer, Gero; Merkenich, Karl; and Pirig, Wolf-Dieter, 3,639,287.
Kern, Winfried; Heymer, Gero; and Harnisch, Heinz, 3,652,205.
Krahl, Fritz; Hammel, Dieter; Heymer, Gero; and Harnisch, Heinz, 3,705,232.
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Amiard, Gaston; and Heymes, Rene, 3,707,540.
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Mowat, Keith B.; and Heyn, William O., 3,640,542.
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Spindt, Charles A.; and Heynick, Louis N., 3,665,241.
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Krikorian, Garo H., 3,696,522.
- Hi-Line Plastics Incorporated: *See*—
Pike, Daniel W., 3,680,495.
- Hi-Shear Corporation: *See*—
Duncan, William E.; Kau, Harry L. F.; and Livermont, Lawrence H., 3,636,746.
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- Hi-Speed Checkweigher Co., Inc.: *See*—
Del Rosso, Victor, 3,640,384.
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- Hi-Ton Machine Tools Limited: *See*—
Harratt, Anthony James, 3,670,456.
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Battistoni, John J.; and Hibbard, William E., 3,635,797.
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Kenworthy, Earl L.; and Hibbs, Russell R., 3,643,261.
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Eto, Yoshizumi; and Hibi, Masao, 3,647,947.
Eto, Yoshizumi; and Hibi, Masao, 3,647,948.
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Moriyama, Hiromi; and Hibi, Susumu, 3,653,121.
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Takenaka, Haruo; Okuyama, Hiroshi; Hibino, Noburo; and Ohta, Eiichi, 3,667,283.
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Bash, Winston D.; and Hickey, Frank D., 3,661,201.
- Hickey, Harvey Edward: *See*—
McIntyre, Hal Byers; and Hickey, Harvey Edward, 3,696,514.
- Hickey, Kenneth R.: *See*—
Eichel, Hermann J.; Hickey, Kenneth R.; and Springman, Frank R., 3,663,690.
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Hickman, Albert F., 3,692,326.
- Hickman, Ella Sue: *See*—
Fredrickson, James D.; and Hickman, Ella Sue, 3,683,937.
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Hammer, Clarence Frederick; and Hickman, James Joseph, 3,657,394.
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Howard, Donald W.; and Hickner, George B., 3,674,320.
Lewis, Richard L.; Hickner, George B.; and Harokopus, William P., 3,701,568.
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Holt, Frederick Rodney, 3,657,566.
Holt, Frederick Rodney, 3,660,772.
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Clark, Donald George; and Hicks, Derek J., 3,638,877.
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Hicks, Margaret L., 3,640,465.
- Hicks, James P.: *See*—
Gramera, Robert E.; and Hicks, James P., 3,632,535.
- Hicks, John J., Jr.: *See*—
Mueller, Werner H.; Hicks, John J., Jr.; and Campbell, Charles R., 3,636,100.
Mueller, Werner H.; Campbell, Charles R.; and Hicks, John J., Jr., 3,654,355.
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- Hicks, Raymond John, to Vickers Limited. Gear trains. 3,633,441, 1-11-72, Cl. 74-801.
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Chinchen, Godfrey Charles; and Hicks, Thomas Cecil, 3,650,713.
- Hicks, Thomas D. Molding core grit. 3,705,863, 12-12-72, Cl. 260-22.0tn.
- Hicks, W Glen: *See*—
Wendorf, Clarence F.; and Hicks, W Glen, 3,685,852.
- Hickson, Donald A.: *See*—
Csicsery, Sigmund M.; Hickson, Donald A.; and Jaffe, Joseph, 3,640,904.
- Hicok, Hershel E. Method of rigidly securing members with a recessed fastener. 3,702,085, 11-7-72, Cl. 76-107.00a.
- Hida, Takashi: *See*—
Kitano, Shin; Momose, Yutaka; Ishikawa, Kazuo; and Hida, Takashi, 3,656,600.
- Hidai, Takeshi: *See*—
Masuda, Noboru; and Hidai, Takeshi, 3,657,686.
- Hidaka, Mikio: *See*—
Yamada, Keisho; Nagai, Shigeki; Odan, Kyoji; Nakamura, Yasuo; and Hidaka, Mikio, 3,636,066.
Yamada, Keisho; Nagai, Shigeki; Odan, Kyoji; Nakamura, Yasuo; and Hidaka, Mikio, 3,641,100.
Yamada, Keisho; Nagai, Shigeki; Odan, Kyoji; Arima, Yasutaka; and Hidaka, Mikio, 3,641,101.
Yamada, Keisho; Umemura, Sumio; Ohdan, Kyoji; Hidaka, Mikio; Fukuda, Kazuo; and Sawazi, Masao, 3,688,002.
- Hidaka, Tsuneo: *See*—
Nishikawa, Yukiyasu; and Hidaka, Tsuneo, 3,676,692.
- Hidaka, Tsuneyoshi; Morita, Akiyoshi; Honjo, Yoshihiko; and Nishimura, Takashi, to Victor Company of Japan, Limited. Color video signal correction system. 3,681,518, 8-1-72, Cl. 178-5.20r.
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Allen, Robert E.; Thompson, Charles R.; and Hidalgo, John, 3,655,680.
- Hidao, Mamoru: *See*—
Yoshida, Mikihiko; Mitsuhashi, Masakazu; and Hidao, Mamoru, 3,705,811.
- Hidassy, Laszlo: *See*—
Farkas, Paul; and Hidassy, Laszlo, 3,648,738.
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Lehovec, Krut; Hielscher, Frank H.; and Preier, Horst M., 3,670,198.
- Hien, Manfred: *See*—
Schmitt, Paul; Hien, Manfred; and Kemmerling, Karl-Heinz, 3,688,962.
- Hiestand, Armin: *See*—
Zbinden, Hans Rudolf; and Hiestand, Armin, 3,668,228.
- Hiestand, Armin, to Ciba Limited. Aqueous emulsions. 3,644,253, 2-22-72, Cl. 260-28.
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Morikawa, Takashi; Higake, Sotomatsu; Sumi, Mitsugu; Urifu, Tohoru; and Yamamoto, Manabu, 3,696,605.
- Higaki, Koh: *See*—
Miyoshi, Munetugu; Niwa, Kouichi; Ohnishi, Takanobu; Danno, Tamotsu; and Higaki, Koh, 3,652,531.
- Higaki, Taiji: *See*—
Akiyama, Toyomi; and Higaki, Taiji, 3,634,135.
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Adachi, Kazuo; Tai, Akira; and Higashi, Fukuji, 3,635,888.
- Higashi, Herbert I.: *See*—
Oster, Stanley; Higashi, Herbert I.; and Dorner, Otto, 3,681,758.
- Higashi, Hideo; and Morinaga, Kotaro. Process of monesterification of dicarboxylic acids. 3,657,279, 4-18-72, Cl. 260-345.5.
- Higashi, Kazuhiro: *See*—
Uekusa, Genzo; Tanimura, Shigeru; Higashi, Kazuhiro; and Sumoto, Takao, 3,679,949.
- Higashi, Kunio: *See*—
Nomura, Fumio; Takamiya, Yutaka; Mizuno, Sakuhiko; Higashi, Kunio; and Shimamoto, Toshihiro, 3,703,698.
- Higashi, Louis M.; and McEvers, Herbert R., to Karex, Inc., mesne. Magnetic coating formulation of recording tape. 3,650,828, 3-21-72, Cl. 117-235.
- Higashi, Louis M., to Memorex Corporation. Epoxy binder for magnetic coating composition. 3,655,595, 4-11-72, Cl. 260-18.
- Higashi, Seiya; and Kobayashi, Kenro, to Kokusai Denki Kabushiki Kaisha. Crystal pulling apparatus having means for maintaining liquid-solid crystal interface at a constant temperature. 3,700,412, 10-24-72, Cl. 23-273.0sp.
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- Higashide, Eiji: *See*—
Kishi, Toykazu; Harada, Setsuo; Misuno, Komci; Higashide, Eiji; and Shibata, Motoo, 3,691,181.
Nakazawa, Koiti; Shibata, Motoo; Higashide, Eiji; Kanzaki, Toshihiko; Yamamoto, Hiroichi; Miyake, Akira; Ueyanagi, Jisaburo; and Iwasaki, Hidesuke, 3,655,879.
Shibata, Motoo; Yamamoto, Hiroichi; Higashide, Eiji; Mizuno, Komei; Imanishi, Mashiko; and Miyake, Akira, 3,678,161.
Yamamoto, Hiroichi; Suzuki Takashi; Higashide, Eiji; Fugono, Takeshi; and Mizuno, Komei, 3,676,300.
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- Higashikawa, Shizuo: *See*—
Kume, Toyohiko; and Higashikawa, Shizuo, 3,663,665.
- Higashikuze, Michiaki: *See*—
Ikai, Masaru; Ishii, Toshikazu; and Higashikuze, Michiaki, 3,664,069.
- Higashimori, Shosuke: *See*—

- Ashikaga, Tadao; and Higashimori, Shosuke, 3,679,544.
 Higashimura, Einosuke; and Nakamura, Eiichi, to Mitsubishi Rayon Co., Ltd. Acrylamide type soil stabilizer containing either sodium or ammonium acrylate. 3,651,002, 3-21-72, Cl. 260-29.6.
 Higashinakagawa, Iwao: *See—*
 Murakami, Yoshio; Higashinakagawa, Iwao; Yasuda, Nobuaki; and Sato, Motoharu, 3,653,007.
 Murakami, Yoshio; Higashinakagawa, Iwao; Yasuda, Nobuaki; and Takeno, Syozo, 3,671,312.
 Yasuda, Nobuaki; Ogawa, Takenobu; Murakami, Yoshio; Higashinakagawa, Iwao; Takeno, Syozo; and Tanaka, Norio, 3,699,619.
 Higdon, Joseph W., Jr. Drawer frame. 3,639,027, 2-1-72, Cl. 312-330.
 Higdon, William T.: *See—*
 Robinson, Joseph D.; Loren, Jay D.; and Higdon, William T., 3,657,730.
 Higginson, Frank G., Jr.; and Sehnert, Robert J., to Ludlow Typograph Company. Apparatus for the production of coded intelligence on a record medium. 3,664,577, 5-23-72, Cl. 234-15.
 Higgins, Calvin E.: *See—*
 Thompson, Robert Q.; Stark, William M.; and Higgins, Calvin E., 3,691,279.
 Higginbotham, Gordon John Spencer; and Hall, Douglas Wilson, to Rolls-Royce Limited. Method and apparatus for producing a metal article. 3,677,324, 7-18-72, Cl. 164-60.000.
 Higginbotham, Roy F.; Blonder, Fred D.; and Snyder, David E., to Datatype Corporation. Optical reader system. 3,639,730, 2-1-72, Cl. 235-61.11.
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 Higginbotham, William W., to Monroe Auto Equipment Co. Vehicle leveling system. 3,653,676, 4-4-72, Cl. 280-6.
 Higginbotham, William W., to Monroe Auto Equipment Co. Vehicle leveling system switch having vibrating preventing means. 3,691,336, 9-12-72, Cl. 200-166.00h.
 Higginbotham, William W., to Monroe Auto Equipment Co. Air spring shock absorber unit. 3,692,296, 9-19-72, Cl. 267-65.000.
 Higginbottom, Robert: *See—*
 Andrew, Herbert Francis; and Higginbottom, Robert, 3,646,002.
 Higgins, David H.: *See—*
 Miller, Robert L.; and Higgins, David H., 3,699,422.
 Higgins, Edward Ted, to Line & Rope Clamps, Inc. Line clamp. 3,644,966, 2-29-72, Cl. 221-134.
 Higgins, Edward Ted, to Line & Rope Clamps, Inc. Line clamp. 3,704,488, 12-5-72, Cl. 24-126.00a.
 Higgins, Francis J., to Courtaulds Limited. Tube furnace. 3,641,249, 2-8-72, Cl. 13-22.
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 Higgins, Horatio Leslie, to Westinghouse Brake and Signal Company Limited. Spring-force applying means. 3,704,653, 12-5-72, Cl. 92-29.000.
 Higgins, Irwin R.: *See—*
 Harding, Charles I.; Russell, Lamar V.; Steeves, W. Malcolm; and Higgins, Irwin R., 3,660,040.
 Higgins, Irwin R.; and Ferner, Jack D., to Chemical Separations Corporation. Split loop contactor. 3,677,937, 7-18-72, Cl. 210-19.000.
 Higgins, James H. Plastic foam spray gun with substantially instantaneous cleaning feature. 3,690,557, 9-12-72, Cl. 239-112.000.
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 Higgins, John B.; and Gatti, Arno, to General Electric Company. Formation of high-strength high-modulus coated filaments. 3,668,006, 6-6-72, Cl. 117-231.000.
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 Higgins, Lawrence M. Automatic dump system for contaminants collected in a slurry processing sump. 3,700,102, 10-24-72, Cl. 209-158.000.
 Higgins, Lester A.: *See—*
 Alexander, James; and Higgins, Lester A., 3,688,467.
 Anderson, Andrew W.; Alexander, James; Leszczynski, Martin E.; and Higgins, Lester A., 3,656,273.
 Higgins, Louis W.: *See—*
 Zubaty, Martin V.; and Higgins, Louis W., 3,703,614.
 Higgins, Ralph G., Jr.: *See—*
 Allman, William T., Jr.; Joseph, Charles W.; and Higgins, Ralph G., Jr., 3,669,788.
 Higgins, Robert B.: *See—*
 Goodman, Brian L.; and Higgins, Robert B., 3,704,788.
 Koller, William B.; Higgins, Robert B.; and Haylett, James W., 3,702,481.
 Higgins, Wade L., Jr., to Hercules Incorporated. Yarn treatment process. 3,693,341, 9-26-72, Cl. 57-157.00r.
 Higgins, William T., to Kelsey-Hayes Company. Winch launch system. 3,702,690, 11-14-72, Cl. 254-187.000.
 Higgs, Kenneth O., to Texaco, Inc. Alarm system for consistometer. 3,668,677, 6-6-72, Cl. 340-236.
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 High Energy Processing Corporation: *See—*
 Flynn, John G., 3,661,650.
 High, Richard A.; and Vesper, George J., to McGraw-Edison Company. Continuous rinse and cool-down control. 3,672,189, 6-27-72, Cl. 68-12.00r.
 High, Robert L.: *See—*
 Rogols, Saul; and High, Robert L., 3,652,295.
 High Voltage Power Corporation: *See—*
 Trump, John George; Skillicorn, Brian; and Johnson, Byron Lee, 3,684,991.
 Higham, George T.: *See—*
 Wadiak, Michael; and Higham, George T., 3,643,701.
 Higham, Peter: *See—*
 Leane, John Bryant; and Higham, Peter, 3,699,428.
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 Highland Laboratories: *See—*
 Poitras, Edward J.; and Wlodyka, Edwin W., 3,652,053.
 Highland, Stanley E. Traversing skips. 3,702,124, 11-7-72, Cl. 182-14.000.
 Highsmith, Phillip E. Ferromagnetic material in a magnetic field as a propulsion system. 3,697,908, 10-10-72, Cl. 335-209.000.
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 Hight, Roland W.: *See—*
 Levine, Morris; Brane, Ralph M.; and Hight, Roland W., 3,657,169.
 Levine, Morris; Brane, Ralph M.; and Hight, Roland W., 3,684,676.
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 Higounenq, Francis J.: *See—*
 Alric, Andre A. L.; Porte, Gilbert R. A.; Glotin, Joseph M. H.; Higounenq, Francis J.; and Boussin, Serge P., 3,703,675.
 Higuchi, Akio: *See—*
 Nakai, Shoji; and Higuchi, Akio, 3,672,589.
 Tsukuma, Shin; and Higuchi, Akio, 3,675,862.
 Higuchi, Masaru: *See—*
 Takasu, Itaru; Higuchi, Masaru; and Hotta, Hiroshi, 3,665,015.
 Higuchi, Noboru; Ogawa, Yutaka; and Watanabe, Akihiro, to NGK Insulators, Ltd. Method of manufacturing porcelain for electric insulators by controlling grain size. 3,674,519, 7-4-72, Cl. 106-46.000.
 Higuchi, Shigetaka: *See—*
 Kawasaki, Meiro; and Higuchi, Shigetaka, 3,702,270.
 Makino, Yoshimi; Higuchi, Shigetaka; Kamiya, Iwao; and Masuya, Yoshikazu, 3,654,163.
 Makino, Yoshimi; Higuchi, Shigetaka; Kamiya, Iwao; and Masuya, Yoshikazu, 3,694,261.
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 Higuchi, Toshikazu: *See—*
 Ono, Hiroshi; and Higuchi, Toshikazu, 3,647,850.
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 Higuera, Robert E., to SanRoy Development Co., Inc. Insulating plug. 3,658,096, 4-25-72, Cl. 138-90.
 Hiiragi, Mineharu: *See—*
 Kigasawa, Kazuo; Hiiragi, Mineharu; Wagatsuma, Nagatoshi; and Kusama, Osamu, 3,644,373.
 Hikawa, Koji: *See—*

- Shimoda, Tsunezo; Hikawa, Koji; Yahata, Shuichi; and Obata, Mitsugu, 3,650,614.
 Hiki, Azuma: *See—*
 Ito, Tetsuro; and Hiki, Azuma, 3,652,267.
 Hikida, Ryotaro; Awano, Taikichi; Itoh, Junichiro; Danno, Atsushi; Matsui, Masao; Inaba, Mitigi; and Isogai, Mituyuki, to Kabushiki Kaisha Toyota Chuo Kenkyusho and Aisin Seiki Kabushiki Kaisha. Vibratory impact tender. 3,683,659, 8-15-72, Cl. 72-150.000.
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 Hikita, Shiniti: *See—*
 Hasegawa, Katsumi; Ando, Akio; Okada, Morio; Kohno, Yukio; Aoi, Norihiro; Kamo, Tadasu; Hikita, Shiniti; and Fukuda, Atsushi, 3,650,486.
 Hikita, Yoshihiko: *See—*
 Hiraoaka, Michito; and Hikita, Yoshihiko, 3,682,265.
 Hikoda, Toyohiko: *See—*
 Mitsukawa, Konosuke; Hattori, Hiroshi; Hikoda, Toyohiko; and Masubuchi, Yoshinori, 3,669,792.
 Hikosaka, Mitsuo. On-line real time data processing system. 3,665,416, 5-23-72, Cl. 340-172.5.
 Hikota, Toyohiko: *See—*
 Toki, Masamichi; Hikota, Toyohiko; and Okamoto, Miyoshi, 3,706,613.
 Hilados Y Tintes Soler, S.A.: *See—*
 Calvet, Francisco Vancells, 3,679,356.
 Hilaire, Marcel Marius Adrien, to Societe Forezienne de Moulinage et Texturation. Process for obtaining a sponge-textured thread from natural silk thread. 3,667,208, 6-6-72, Cl. 57-156.
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 Hilberg, Ronald P.: *See—*
 Hook, William R.; Hilberg, Ronald P.; and Dishington, Roland H., 3,694,769.
 Hilberg, Ronald P., to TRW Inc. Laser with combined Q-switch and synchronized cavity dump circuit. 3,673,504, 6-27-72, Cl. 328-210.000.
 Hilberg, Wolfgang, to Licentia Patent-Verwaltungs-G.m.b.H. Data storage system. 3,688,279, 8-29-72, Cl. 340-173.0sp.
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 Hilbert, Edward E.: *See—*
 United States of America, National Aeronautics and Space Administration, 3,665,417.
 Hilbert, Francis H.: *See—*
 Cecchin, Gildo; and Hilbert, Francis H., 3,644,677.
 Hilbert, Francis H., to Motorola, Inc. Signal reconstruction circuit. 3,652,950, 3-28-72, Cl. 330-30.
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 Hilbig, Jack H., to Rohr Corporation. Method and apparatus for suppressing the noise of a fan-jet engine. 3,655,009, 4-11-72, Cl. 181-33.
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 Hild, Henry F.; Manecke, Siegfried E.; and Shaw, James L., to Robertshaw Controls Company. Thermostatic control device and system utilizing the same. 3,665,362, 5-23-72, Cl. 337-322.
 Hildebrand, Bernard P.: *See—*
 Haines, Kenneth A.; and Hildebrand, Bernard P., 3,632,183.
 Hildebrand, David: *See—*
 Hanna, Daniel C.; Ebeling, Jack F.; and Hildebrand, David, 3,701,356.
 Hildebrand, Dietrich: *See—*
 Kirschneck, Helmut; Hildebrand, Dietrich; and Breidbach, Gunter, 3,643,270.
 Hildebrand, Dietrich; and Neufang, Karl, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of high bulk textile materials from polyacrylonitrile. 3,679,354, 7-25-72, Cl. 8-130.100.
 Hildebrand, Hans, to Norton Company. Endless abrasive belt having an overlapping joint. 3,643,387, 2-22-72, Cl. 51-399.
 Hildebrand, Peter: *See—*
 Hohnerlein, Gunther Ernst; Meinhardt, Gunther Max; and Hildebrand, Peter, 3,692,064.
 Hildebrand, Victor F.: *See—*
 McDevitt, James Palm Harbour; and Hildebrand, Victor F., 3,641,916.
 Hildebrandt, Albert R., to Standard International Corporation. Electrical component. 3,649,939, 3-14-72, Cl. 336-65.
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 Hildick-Smith, Gavin: *See—*
 Robinson, Raymond C. V.; Hildick-Smith, Gavin; and Swindlehurst, Thomas, Jr., 3,632,740.
 Hildreth, Clarence L., to Ethyl Corporation. Chloridizing alumina-containing ore. 3,704,113, 11-28-72, Cl. 75-1.000.
 Hilfiker, Harold O.: *See—*
 Hilfiker, William K.; and Hilfiker, Harold O., 3,631,682.
 Hilfiker Pipe Co.: *See—*
 Hilfiker, William K.; and Hilfiker, Harold O., 3,631,682.
 Hilfiker, William K.; and Hilfiker, Harold O., to Hilfiker Pipe Co. Reinforced concrete cribbing. 3,631,682, 1-4-72, Cl. 61-47.
 Hilfman, Lee: *See—*
 Pollitzer, Ernest L.; and Hilfman, Lee, 3,663,425.
 Hilfman, Lee, to Universal Oil Products Company. Hydrocarbon conversion catalyst and method of manufacture. 3,640,903, 2-8-72, Cl. 252-451.
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 Hilgemann, Willi, to Windmoller & Holscher. Apparatus for coiling moving webs of paper, plastics film or other sheet materials. 3,687,387, 8-29-72, Cl. 242-56.00a.
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 Hilgers, Giovanni; Hitzemann, Gerhard; and Kulling, Achim, to Titagesellschaft mbH. Means for producing pyrogenic titanium dioxide pigment. 3,694,168, 9-26-72, Cl. 23-284.000.
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 Hill, Benjamin T., Jr. Portable dual motion picture viewer. 3,701,596, 10-31-72, Cl. 352-129.000.

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Bagley, Alan S.; Band, Ian T.; and Hill, Charles M., 3,632,998.
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Marland, Joseph A.; and Hill, Charles W., 3,633,713.
- Hill, Clifford W. Decorative lamp shades. 3,675,008, 7-4-72, Cl. 240-108.000.
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- Hill, Donald Allan: *See—*
Essex, Duane Arnold; Haverdink, Virgil Dean; and Hill, Donald Allan, 3,700,039.
- Hill, Donald C., to Eaton Corporation. Piston ring. 3,704,893, 12-5-72, Cl. 277-171.000.
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Payne, Stanley D.; Hill, Donald E.; and Walker, Robert G., 3,685,118.
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Bukosky, Allen A.; Flavin, Michael A.; Hill, Donald G.; Huizinga, Donald D.; and Ritchey, James F., 3,670,111.
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Bartlett, Peter G.; Clark, Larry K.; and Hill, Frank W., 3,654,494.
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Shaw, Kenneth, 3,702,645.
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Highfield, Peter Edward; and Hill, Gordon John, 3,695,969.
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Fathauer, George H., 3,675,120.
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Rutledge, Nolan W.; Mercer, Ronald H.; and Hill, Herbert Charles, Jr., 3,673,982.
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Wong, Robert; and Hill, Homer G., 3,669,638.
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Carpenter, Earl W.; and Hill, Jerome E., 3,634,768.
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Edelberg, Alan Y.; and Hill, Jimmy E., 3,645,468.
- Hill, John A.; and La Via, Anthony L., to Squibb, E. R., & Sons, Inc. Sweetening compositions containing saccharin and dipeptides. 3,695,898, 10-3-72, Cl. 99-141.000.
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Collins, Arthur A.; Hill, John D., III; and Hungerford, Laurence D., 3,659,271.
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Collins, Arthur A.; and Hill, John Dan, III, 3,692,941.
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Stephenson, Leslie; and Hill, Margaret Elizabeth, 3,660,437.
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Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., 3,700,723.
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Hall, Henry B.; and Hill, Norman W., 3,638,619.
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Ashworth, Brian Thomas; Harper, Donald; and Hill, Peter, 3,642,727.
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Boissevain, Mathew G.; and Hill, Robert C., 3,697,755.
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Lahm, James; and Hill, Robert D., Jr., 3,703,699.
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- Hill, Rodney S., to ILC Industries, Inc. Protective garment. 3,688,314, 9-5-72, Cl. 2-2.10a.
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Root, James R.; and Hill, Thomas D., 3,677,517.
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Harding, William R.; and Hill, Vincent G., 3,635,089.
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Heck, Joseph G.; and Hill, Warner M., 3,704,204.
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McGee, Harold, 3,642,039.
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Burst, Francis J.; and Adams, James S., 3,633,225.
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Tupper, Myron D.; and Hille, Arvin A., 3,674,220.
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Hille, Dale H., 3,664,679.
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Dobbelstein, Arnold; Hille, Hans-Dieter; and Momm, Anneliese Geb. Koziok, 3,676,403.
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Howard, Lawrence, 3,657,513.
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Bricker, Carl E.; and Hillegass, Kenneth P., 3,687,247.
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Lampson, George P.; Tytell, Alfred A.; Field, Arthur K.; and Hilleman, Maurice R., 3,666,646.
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Wilhelm, Manfred; and Hillenbrand, Bernhard, 3,684,495.
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De Mauriac, Richard A.; and Hiller, Gary Lynn, 3,679,422.
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Hieber, Ellsworth E.; Taquino, Thomas P.; and Hillery, Frank Edward, 3,668,976.
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Coburn, William K.; and Hillger, Richard E., 3,649,735.
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Aylies, Sargeant E.; Hillhouse, Mial T.; Kyriakis, Alexander; and Pengilly, Brian W., 3,634,339.
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Sunderman, Elwin; and Hilliard, Merle, 3,664,677.
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Hillier, Elmer W., 3,651,602.
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George, John Barrett; and Hilliker, Stephen Earl, 3,651,409.
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Malet, Michael Anley; and Hills, David Leslie, 3,667,880.
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Fielden, Roy; Green, Albert Lawrence; and Hills, Derek William, 3,655,757.
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Turkot, Matthew E., 3,687,415.
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Watson, Roger W.; Brannen, William T., Jr.; and Hillstrom, Warren W., 3,652,616.
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Schmitz, Joseph F.; and Hilmanowski, James R., 3,633,241.
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Colliver, David John; and Hilsum, Cyril, 3,673,469.
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Lyles, James M.; Hewitt, Robert E.; Hilt, Glenn L.; and Britt, James E., 3,638,610.
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Balint, Lajos, 3,679,344.
Chromy, Franz, 3,674,101.
Chromy, Franz, 3,690,390.
Gstohl, Norbert; and Tauern, Dankmar, 3,701,879.
Hartmann, Manfred, 3,651,546.
Maier, Elmar; and Rangger, Herbert, 3,637,127.
Maier, Elmar; and Rangger, Herbert, 3,679,118.
Maier, Elmar, 3,682,364.
Schmuck, Peter, 3,637,225.
Schmuck, Peter, 3,688,522.
- Hilti Aktiengesellschaft, *mesne: See—*
Flesch, Friedrich; and List, Hansjorg, 3,662,644.
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Wollweber, Hartmund; Hiltmann, Rudolf; and Stendel, Wilhelm, 3,686,199.
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Hilvitz, Arthur L.; Hilvitz, Philip E.; Hilvitz, Harvey M.; and Campbell, Richard, 3,667,372.
- Hilvitz, Philip E.: *See—*
Hilvitz, Arthur L.; Hilvitz, Philip E.; Hilvitz, Harvey M.; and Campbell, Richard, 3,667,372.
- Hilzinger, Fritz: *See—*
Hilzinger, Fritz; and Hilzinger, Fritz, 3,651,811.
- Himebaugh, Donald T.: *See—*
Brown, James L.; Himebaugh, Donald T.; and Montgomery, James R., 3,655,985.
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Beck, Fritz; Himmele, Walter; Haufe, Juergen; and Brunold, Andreas, 3,652,430.
Goelz, Horst; Suter, Hubert; Fust, Juergen; and Himmele, Walter, 3,635,968.
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Johnson, Dennis E.; Woodland, Lawrence R.; Kensler, Charles J.; and Himmelfarb, Philip, 3,647,632.
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Wegerich, Anton; Arend, Wolfgang; Himmelhan, Emil; and Wittwer, Arnold, 3,657,315.
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- Himmelmann, Wolfgang: *See—*
Grabhofer, Herbert; Himmelmann, Wolfgang; and Glabisch, Dietrich, 3,635,715.
Kreuder, Manfred; Metzner, Wolfgang; Sobel, Johannes; Himmelmann, Wolfgang; and Nittel, Fritz, 3,687,671.
Matejec, Reinhard; Meyer, Rudolf; and Himmelmann, Wolfgang, 3,639,128.
Nittel, Fritz; Sobel, Johannes; and Himmelmann, Wolfgang, 3,705,805.
- Saleck, Wilhelm; Himmelmann, Wolfgang; Meyer, Rudolf; Moll, Franz; and Huckstadt, Harlad, 3,637,391.
- Schulz, Gunter; Himmelmann, Wolfgang; and Randolph, August, 3,676,144.
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Hess, Karl-Gunter; Himmelsbach, Paul; and Thomas, Otto, 3,656,422.
Hess, Karl-Gunter; Himmelsbach, Paul; and Thomas, Otto, 3,682,072.
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Sato, Akio; Misu, Hiroshi; Shiba, Keisuke; and Hinata, Masanao, 3,635,721.
Sato, Akio; Sonoda, Minoru; Shiba, Keisuke; Hinata, Masanao; and Nozoe, Tetsuo, 3,687,674.
Shiba, Keisuke; Hinata, Masanao; Sato, Akira; and Misu, Hiroshi, 3,649,288.
Shiba, Keisuke; Hinata, Masanao; Tsuji, Nobuo; Miyazako, Takushi; and Sato, Akira, 3,650,762.
Shiba, Keisuke; Hinata, Masanao; Tsuji, Nobuo; and Sato, Akira, 3,674,499.
Shiba, Keisuke; Hinata, Masanao; Yoshida, Makoto; Imai, Shinichi; Sato, Akira; and Watanabe, Shigaru, 3,682,640.
- Hinbest, Lionel Frederick: *See—*
Hemsley, Brian; Hinbest, Lionel Frederick; and Marshall, Joseph William, 3,666,885.
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- Hinck, Helmut: *See—*
Sinn, Hansjoerg; Hinck, Helmut; Gruetzmacher, Hans Friedrich; and Bandermann, Friedhelm, 3,651,112.
- Hinckley, John D. Adjustable floor and ceiling supported chinning bar. 3,642,278, 2-15-72, Cl. 272-62.
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Kusterer, James E., Jr.; and Hind, John D., 3,703,353.
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- Hinde, Doris: *See—*
Mitchell, Thomas; and Grossman, Frederick, 3,665,773.
- Hinden, Milton; and Porat, David, to Duro-Dyne Corporation. Sheet metal resistance welding pin. 3,701,878, 10-31-72, Cl. 219-98.000.
- Hinden, Stephen David: *See—*
Shaw, Irving Franklin; and Hinden, Stephen David, 3,703,472.
- Hinderaker, Philip D.; and Nelson, Karl E., to Minnesota Mining and Manufacturing Company. Magnetic insect screen. 3,679,505, 7-25-72, Cl. 156-71.000.
- Hinderer, Helmut E.: *See—*
Bach, Hartwig C.; and Hinderer, Helmut E., 3,642,902.
Bach, Hartwig C.; and Hinderer, Helmut E., 3,644,328.
Bach, Hartwig C.; and Hinderer, Helmut E., 3,697,478.
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- Hinderer, Rolf, GmbH: *See—*
Hinderer, Rolf, 3,703,729.
- Hindermann, Peter: *See—*
Kolliker, Hans-Peter; Staub, Alfred; and Hindermann, Peter, 3,689,510.
Schwander, Hans Rudolf; Zenhausern, Anton; and Hindermann, Peter, 3,649,652.
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Geil, John H., 3,662,400.
- Hindin, Eugene. Rivet panel fastener. 3,687,496, 8-29-72, Cl. 287-189.36d.
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Hindle, Thomas; and Banks, Vincent Pinder, 3,680,599.
Hindle, Thomas; and Banks, Vincent Pinder, 3,680,602.
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Hindle, Thomas; and Banks, David Dugmore, 3,698,444.
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- Hinds, Francis Michael: *See—*
Brown, George A.; and Hinds, Francis Michael, 3,655,122.
- Hinds, Walter E.: *See—*
Tarbox, John W.; Hinds, Walter E.; and Castro, Rodolfo, 3,699,630.
- Hinds, William H.: *See—*
Wantland, Charles F.; Juge, Frank E., Jr.; and Hinds, William H., 3,679,577.
- Hindsley, Frank W.: *See—*
Porter, William I.; Hindsley, Frank W.; and Hesse, James E., 3,688,406.
- Hine, Stewart Charles: *See—*
Wilkinson, Alan; Hine, Stewart Charles; and Bosher, David Robert, 3,644,739.
- Hine, Wilbur H., Jr.: *See—*
Hine, Wilbur H., Jr.; Murray, Ronald D.; and Lang, Richard E., 3,656,866.
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- Hingst, Gerd: *See—*
Kundler, Walter; and Hingst, Gerd, 3,660,743.
Kundler, Walter; and Hingst, Gerd, 3,670,227.
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- Hinkle, Oliver E.: *See—*
Carothers, Olen E.; and Hinkle, Oliver E., 3,664,550.
- Hinkley, Clyde E.; and Lusk, William A. Pace setter. 3,691,984, 9-19-72, Cl. 116-116.000.
- Hinkley, David F.: *See—*

- Hoinowski, Alexander M.; and Hinkley, David F., 3,636,093.
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Tanimura, Shigeru; Maejima, Norio; Yoshimura, Kiyokazu; and Hinoda, Seisuke, 3,639,867.
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- Hinojosa, Oscar: *See—*
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- Hozumi, Shiro; Hirai, Kenichi; Tanigawa, Yoshiyuki; Yoshida, Katsuro; and Sugihara, Kanji, 3,673,666.
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- Takamizawa, Akira; and Hirai, Kentaro, 3,666,831.
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- Kokubu, Kaoru; and Hirai, Osami, 3,643,304.
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- Higuchi, Toshio; Miyabe, Hideyuki; and Hiramatsu, Takeo, 3,650,160.
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- Scott, Allan W.; and Hiramatsu, Yukio, 3,654,509.
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- Ukai, Jun; and Hiramatu, Masaki, 3,637,973.
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- Tanaka, Eiichi; Hiramoto, Toshiyuki; and Nohara, Norimasa, 3,691,379.
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- Schrader, Gerhard; Eue, Ludwig; Hack, Helmut; Hirane, Seiichi; Aya, Masahiro; Kishino, Shigeo; and Fukazawa, Nobuo, 3,636,143.
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- Horie, Hajime; Hirano, Tadao; Okuyama, Hideo; and Ishimoto, Atumi, 3,632,419.
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- Saitoh, Kohichi; Ohkubo, Nobuo; Sobajima, Katsunobu; and Hirano, Takeshi, 3,672,656.
- Hirano, Tomiyoshi: See—
- Ohmae, Kenji; Hirano, Tomiyoshi; and Akaishi, Takao, 3,662,208.
- Hirao, Mamoru: See—
- Kurimoto, Masashi; Sugimoto, Kaname; and Hirao, Mamoru, 3,677,896.
- Mitsuhashi, Masakazu; Hirao, Mamoru; and Sugimoto, Kaname, 3,705,039.
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- Asai, Shojiro; Hirao, Motohisa; and Maruyama, Eiichi, 3,697,338.
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- Haga, Teruhide; Yamaguchi, Hisashi; and Hirao, Yotaro, 3,671,255.
- Hiraoka, Hiroyuki: See—
- Srinivasan, Rangaswamy; and Hiraoka, Hiroyuki, 3,647,656.
- Hiraoka, Kozi: See—
- Dohi, Tadahiro; Yu, Taneyoshi; Nakagawa, Takayuki; and Hiraoka, Kozi, 3,651,132.
- Hiraoka, Michio: See—
- Tachibana, Sachihiko; Nakai, Susumu; Makino, Yoichi; Matsumura, Hisashi; Tabuchi, Kimitaka; Hiraoka, Michio; Akoh, Shigeichi; and Orito, Hiroshi, 3,644,078.
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- Hirasawa, Kotaro: See—
- Yuminaka, Takeo; Iwasaka, Tatsuo Co., Ltd.; Matsuzawa, Hideto; Kawatake, Koichi; and Hirasawa, Kotaro, 3,642,099.
- Hirashima, Kenzo: See—
- Matsui, Shunji; Hayakawa, Yosikazu; and Hirashima, Kenzo, 3,687,486.
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- Ginsberg, Arthur; and Hirata, Atsumu, 3,643,375.
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- Hirata, Kinya: See—
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- Naito, Takeo; Hirata, Miyoshi; and Isoda, Sumiro, 3,674,833.
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- Aoki, Chihiro; and Hirata, Takashi, 3,650,615.
- Hishida, Yukio; Kato, Takami; Hirata, Takashi; and Kurachi, Hisao, 3,642,110.
- Hirate, Jun: See—
- Ito, Yutaka; and Hirate, Jun, 3,673,324.
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- Hire, Charles John, to Fasco Industries, Inc. Thermostatic switch for fire alarm system. 3,686,605, 8-22-72, Cl. 337-334.000.
- Hirn, Hans, to American Can Company. Positive feed transfer for pin conveyor. 3,655,026, 4-11-72, Cl. 198-25.
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- Iwai, Isseu; Kishida, Yukichi; Hiroaka, Tetsuo; and Nakamura, Norio, 3,687,968.
- Hirohashi, Atsuko: See—
- Yamamoto, Hisao; Hirohashi, Atsuko; Izumi, Takahiro; and Koshiba, Masao, 3,673,243.
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Kagari, Yoshiharu; Ogawa, Toshiya; and Hirokawa, Koichi, 3,689,742.
Kagari, Yoshiharu; Hirokawa, Koichi; and Hasegawa, Toru, 3,690,251.
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Shoji, Osamu; Hironaka, Jouji; and Kotani, Hirotada, 3,647,626.
- Hironosuke, Kada: *See—*
Arikawa, Masayasu; Godai, Tomokazu; Arai, Toshio; Hironosuke, Kada; and Akihiko, Iochi, 3,679,866.
- Hirooka, Masaaki: *See—*
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, 3,635,924.
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; Yabuuchi, Hiroshi; and Takao, Hiroyoshi, 3,647,753.
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, 3,647,771.
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; Yabuuchi, Hiroshi; and Takao, Hiroyoshi, 3,671,492.
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, 3,700,647.
Oshima, Teruo; Wada, Takeshi; Nagase, Tsuneyuki; Masuko, Fujio; Hirooka, Masaaki; and Taniguchi, Isoji, 3,671,506.
Yamamoto, Keisaku; Takao, Hiroyoshi; Hirooka, Masaaki; and Oshima, Teruo, 3,655,583.
Yamamoto, Keisaku; Takao, Hiroyoshi; Hirooka, Masaaki; and Oshima, Teruo, 3,674,755.
Yasui, Seimei; Hirooka, Masaaki; and Oshima, Teruo, 3,649,573.
Yasui, Seimei; Hirooka, Masaaki; and Oshima, Teruo, 3,678,018.
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- Hirosawa, Koichiro: *See—*
Kubo, Seitoku; Ohnuma, Kiyoshi; and Hirosawa, Koichiro, 3,646,836.
- Hirosawa, Norio, to Kuretoishi Kabushikaisha. Belt-mold forming apparatus grinding wheels. 3,689,187, 9-5-72, Cl. 425-363.000.
- Hirose Electric Co., Ltd.: *See—*
Kawai, Mitsuru, 3,680,033.
- Hirose, Hiromitsu: *See—*
Morita, Ken-ichi; Suzuki, Zennosuke; and Hirose, Hiromitsu, 3,678,093.
- Hirose, Juichi: *See—*
Nakao, Osakazu; Nakagawa, Saburo; Hirose, Juichi; Yamazaki, Shigeyuki; Amano, Takashi; Nakamura, Toshio; and Yamamoto, Hiroyuki, 3,658,735.
Nakao, Osakazu; Nakagawa, Saburo; Hirose, Juichi; Yamazaki, Shigeyuki; Amano, Takashi; Nakamura, Toshio; and Yamamoto, Hiroyuki, 3,669,916.
- Hirose, Katsumi: *See—*
Hayakawa, Shohei; Matsushima, Takashi; Minato, Hitoshi; and Hirose, Katsumi, 3,660,568.
- Hirose, Kazutoyo: *See—*
Honda, Kiyoshi; Miyazaki, Mitsumasa; Nomura, Shozaburo; Akiyama, Kazuo; and Hirose, Kazutoyo, 3,694,415.
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- Hirose, Masahiro: *See—*
Sadakata, Kazuo; Sasaki, Minoru; Hirose, Masahiro; Nakamura, Yasuo; Mikida, Yukio; Ito, Kazuo; and Kimura, Kuninobu, 3,639,513.
- Hirose, Masanao. High frequency noise prevention cable. 3,683,309, 8-8-72, Cl. 338-214.000.
- Hirose, Ryusho; and Takano, Eiichi, to Canon Kabushiki Kaisha. Zoom lens capable of extreme closeup photography. 3,659,921, 5-2-72, Cl. 350-186.
- Hirose, Takashi: *See—*
Kamata, Yoshihiro; and Hirose, Takashi, 3,676,322.
- Hirose, Tatsuo: *See—*
Abc, Isao; Hirose, Tatsuo; and Ohshima, Kotaro, 3,699,976.
Hirose, Yasunori, to Nippon Gakki Seizo Kabushiki Kaisha. Keying circuit for simultaneously switching a plurality of circuits. 3,663,737, 5-16-72, Cl. 84-1.260.
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Ikeda, Shigehi; Ishizaki, Ayaaki; Hirose, Yoshio; and Shiro, Teruo, 3,674,639.
Niwa, Kunimori; Shibai, Hiroshiro; Yasunaga, Masahiro; Hirose, Yoshio; and Shiro, Teruo, 3,669,844.
- Hirose, Yoshiyuki, to Kabushiki Kaisha Daini Seikosha. Timepiece with an automatic hand-set mechanism by standard time announcement. 3,638,417, 2-1-72, Cl. 58-24.
- Hiroshi, Hanada, to Canon Kabushiki Kaisha. Process for preparing photoconductive powders. 3,691,104, 9-12-72, Cl. 252-501.000.
- Hiroshi, Horino; and Masato, Matsuo, to Japanese Geon Company, Ltd., The. Vinyl chloride polymer compositions. 3,694,525, 9-26-72, Cl. 260-899.000.
- Hiroshi, Ueki, to Kurita Industrial Co., Ltd. Cleaning composition. 3,686,123, 8-22-72, Cl. 252-87.000.
- Hiroshima Kago Kabushiki Kaisha: *See—*
Ijiri, Yoshinobu; Yano, Yoshiaki; and Yoshida, Hiroshi, 3,668,133.
- Hiroshima Kasei, Ltd.: *See—*
Miyachi, Kiyoichi; Hashino, Shinsuke; and Hongu, Tomokazu, 3,675,346.
- Hiroshima, Tatsuo: *See—*
Shiraiwa, Toshio; and Hiroshima, Tatsuo, 3,670,239.
- Hirota, Eiichi: *See—*
Kawamata, Tadashi; Hirota, Eiichi; Mihara, Toshihiro; and Terada, Yukio, 3,640,871.
- Hirota, Hatsu, to Toyo Plywood Co., Ltd. Decorative overlay paper covered plywood and process of manufacturing the same. 3,654,044, 4-4-72, Cl. 161-2.
- Hirota, Haru. Friction reduced conveying apparatus of helical chain conveyor type. 3,706,371, 12-19-72, Cl. 198-181.000.
- Hirota, Kashiichi, to Kyowa Denki Kagaku Kaisha. Pallet. 3,678,868, 7-25-72, Cl. 108-51.000.
- Hirota, Nobuyoshi; and Onoshima, Yoshio, to Mitsubishi Jukogyo Kabushiki Kaisha. Formaldehyde-gelatin composition for gas pressure testing which forms a long lasting foam. 3,664,965, 5-23-72, Cl. 252-408.
- Hirota, Sadaichi. Method of making confectioned mushrooms. 3,658,554, 4-25-72, Cl. 99-102.
- Hirota, Tatsuo. Eye-liner device. 3,682,559, 8-8-72, Cl. 401-278.000.
- Hirota, Tatsuo, to Pentel Co., Ltd. Push-button type writing instrument with a cap. 3,690,778, 9-12-72, Cl. 401-66.000.
- Hirotsu, Tadashi: *See—*
Tanaka, Masatami; and Hirotsu, Tadashi, 3,642,257.
Tanaka, Masatami; and Hirotsu, Tadashi, 3,690,621.
- Hirotsu, Yoshiyuki: *See—*
Aishima, Itsuho; Sakurai, Hisaya; Takashi, Yukichi; Morita, Hideo; Hirotsu, Yoshiyuki; and Hamada, Tetsuo, 3,661,878.
- Hirozawa, Koichiro: *See—*
Murakami, Noboru; and Hirozawa, Koichiro, 3,672,243.
- Hirozawa, Koichiro, to Aisin Seiki Kabushiki Kaisha. Speed responsive transmission. 3,662,621, 5-16-72, Cl. 74-731.
- Hirozawa, Koichiro, to Aisin Seiki Kabushiki Kaisha. Control mechanism for automatic speed change assembly. 3,675,512, 7-11-72, Cl. 74-869.
- Hirozawa, Koichiro; and Asano, Tadao, to Aisin Seiki Kabushiki Kaisha. Speed change mechanism. 3,677,104, 7-18-72, Cl. 74-336.000.
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- Hirozawa, Koichiro, to Aisin Seiki Kabushiki Kaisha. Speed controller for a diesel engine. 3,693,605, 9-26-72, Cl. 123-140.0mp.
- Hirozawa, Koichiro; and Takahashi, Shigeo, to Aisin Seiki Kabushiki Kaisha. Speed changer. 3,704,768, 12-5-72, Cl. 192-3.570.
- Hirs, Gene, to Hydromotion Engineering Company. Method of and apparatus for filtering. 3,669,882, 6-13-72, Cl. 210-33.000.
- Hirs, Gene; and Wykoff, Richard H., to Hydromotion Filter Company. Method of filtering a mixture of liquid and fibrous solid contaminants. 3,695,433, 10-3-72, Cl. 210-67.000.
- Hirs, Gilles Gerardus, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid. Bearings and seals with a grooved bearing surface. 3,655,248, 4-11-72, Cl. 308-9.
- Hirs, Gilles Gerardus, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid Handel en Verkeer. Aerostatic or hydrostatic bearing. 3,656,819, 4-11-72, Cl. 308-9.
- Hirs, Joseph: *See—*

- Graser, Toni; and Hirs, Joseph, 3,675,635.
- Hirsbrunner, Hans G.: *See—*
Santala, Teuvo J.; and Hirsbrunner, Hans G., 3,701,654.
- Hirsbrunner, Hans G.; and McBride, Lyle E., Jr., to Texas Instruments, Incorporated. Composite thermistor temperature sensor having step-function response. 3,644,864, 2-22-72, Cl. 338-25.
- Hirsch, Allen F., to Ortho Pharmaceutical Corporation. O-(Nitroaryl) oximes of 3-keto steroids. 3,686,237, 8-22-72, Cl. 260-397.300.
- Hirsch, Charles J., to RCA Corporation. Time delay device. 3,688,131, 8-29-72, Cl. 307-293.000.
- Hirsch, Christian Worm; and Johnsen, John Normann, to International Standard Electric Corporation. Power cable. 3,666,879, 5-30-72, Cl. 174-128.
- Hirsch, Clarence A.: *See—*
Little, Edwin D.; and Hirsch, Clarence A., 3,639,115.
- Hirsch, Donald, to Bell Telephone Laboratories, Incorporated. Adaptive equalizer for digital data systems. 3,648,171, 3-7-72, Cl. 325-42.
- Hirsch, Hans, & Sohne, Firma: *See—*
Hirsch, Hermann, 3,650,585.
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- Hirsch, Irving C. Collapsible stool. 3,663,058, 5-16-72, Cl. 297-439.
- Hirsch, Karl; Riedl, Wilhelm; Winkler, Siegmund; and Pirker, Hans, to Hirsch Plastikwaren Karl Hirsch OHG, Firma. Latern slide cover. 3,686,784, 8-29-72, Cl. 40-159.000.
- Hirsch, Nathan M. Apparatus for washing blood cells. 3,677,710, 7-18-72, Cl. 23-258.500.
- Hirsch, Peter, to Bell Telephone Laboratories, Incorporated. Arrays with nulls steered independently of main beam. 3,670,335, 6-13-72, Cl. 343-100.0sa.
- Hirsch, Peter M.; Jordan, James A., Jr.; and Lesem, Louis B., to International Business Machines Corporation. Computer generated filtering method. 3,642,350, 2-15-72, Cl. 350-162.
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Hirsch, Karl; Riedl, Wilhelm; Winkler, Siegmund; and Pirker, Hans, 3,686,784.
- Hirsch, Robert L., to International Telephone and Telegraph Corporation. Electrostatic field apparatus for reducing leakage of plasma from magnetic type fusion reactors. 3,655,508, 4-11-72, Cl. 176-5.
- Hirsch, Robert L., to International Telephone and Telegraph Corporation. Electrostatic containment in fusion reactors. 3,664,920, 5-23-72, Cl. 176-1.
- Hirsch, Roger B. Gauging system for press brakes. 3,704,611, 12-5-72, Cl. 72-36.000.
- Hirsch, Roger D., to Bangor Punta Operations, Inc. Snowmobile having articulated bogey wheel suspension means. 3,684,043, 8-15-72, Cl. 180-5.00r.
- Hirsch, Stanley; and Schneider, Irving, to Structural Industries, Inc. Frame construction. 3,698,114, 10-17-72, Cl. 40-155.000.
- Hirsch, Winfred S., to Weck, Edward, & Company, Inc. Bandage having an integral reservoir. 3,658,065, 4-25-72, Cl. 128-296.
- Hirschberg, Joseph G., to Research Corporation. Image recording method and device. 3,644,014, 2-22-72, Cl. 350-3.5.
- Hirschberg, Kenneth A., to United States of America, Army, mesne. Seismic system for real-time reporting. 3,699,509, 10-17-72, Cl. 340-15.000.
- Hirschburger, Eugen, KG: *See—*
Hirschburger, Kurt, 3,683,650.
- Hirschburger, Kurt, to Hirschburger, Eugen, KG. Device for treating strand-like material. 3,683,650, 8-15-72, Cl. 68-5.00d.
- Hirschel, Joel. Mass spectrometer detector arrays. 3,636,345, 1-18-72, Cl. 250-41.9.
- Hirschfeld, Tomas. Hydrocarbon detector. 3,695,847, 10-3-72, Cl. 23-232.00r.
- Hirschfeld, Tomas; and Matsu, Noboru, to Block Engineering, Inc. Hydrocarbon detector system. 3,697,226, 10-10-72, Cl. 23-254.00r.
- Hirschhorn, Leo. Porcelain bonding dental gold alloy. 3,679,402, 7-25-72, Cl. 75-165.000.
- Hirschhorn, Sidney H. Rope clamps. 3,698,042, 10-17-72, Cl. 24-19.000.
- Hirschkron, Robert: *See—*
Sturgess, Geoffrey John; Hoffman, Jacob Sherman; Vdovjak, John William; and Hirschkron, Robert, 3,703,259.
- Hirschman, Howard I.; and Evers, James C., to Pitney Bowes-Sage, Inc. Flash tube holder assembly. 3,692,994, 9-19-72, Cl. 240-11.40r.
- Hirschman, Paul S.: *See—*
Day, John J.; and Hirschman, Paul S., 3,658,034.
Day, John J.; and Hirschman, Paul S., 3,682,138.
Day, John J.; and Hirschman, Paul S., 3,685,489.
Day, John J.; and Hirschman, Paul S., 3,696,788.
- Hirschman, Shalom Z. Catamenial device. 3,690,321, 9-12-72, Cl. 128-285.000.
- Hirschmann, Jack B., Jr., to Bonton, H. L., Company, Inc. Manually formable spectacle temple. 3,649,106, 3-14-72, Cl. 351-117.
- Hirschmann, Joachim: *See—*
Krock, Alwin; Page, Hans-Peter; and Hirschmann, Joachim, 3,705,389.
- Hirschmeier, Horst: *See—*
Ewe, Gerhard; Dennerlein, Hugo; Schmidt, Heinrich; Hirschmeier, Horst; and Fechter, Willi, 3,650,468.
- Hirschy, Harlan W.: *See—*
Hubin, Anthony S.; and Hirschy, Harlan W., 3,686,050.
- Hirsh Company, The: *See—*
Ferdinand, Irwin J.; and Kulbersh, Irwin R., 3,639,026.
Ferdinand, Irwin J.; and Kulbersh, Irwin R., 3,645,486.
Ferdinand, Irwin J.; and Kulbersh, Irwin R., 3,654,879.
Ferdinand, Irwin J.; Kulbersh, Irwin R.; and Cassiere, Gerald D., 3,691,966.
- Hirsh, Ivan Yehudi: *See—*
Pocock, Frederick; and Hirsh, Ivan Yehudi, 3,633,590.
- Hirshberg, Philip I. Method and apparatus for administering digitalizing medications. 3,651,806, 3-28-72, Cl. 128-214.
- Hirshen, Sanford; and Van Der Ryn, Sim, to Hirshen/Van der Ryn. Endless inflatable device. 3,676,276, 7-11-72, Cl. 161-17.
- Hirshen/Van der Ryn: *See—*
Hirshen, Sanford; and Van Der Ryn, Sim, 3,676,276.
- Hirshfeld, Julian J.: *See—*
Hacklander, Egon H.; Hirshfeld, Julian J.; and Reuben, Bertie J., 3,706,529.
- Hirshfeld, Julian J.; and Reuben, Bertie J., to Monsanto Company. Improving soil resistance through the use of rare earth metal containing compounds. 3,645,780, 2-29-72, Cl. 117-138.8.
- Hirshfeld, Julian J.; and Reuben, Bertie J., to Monsanto Company. Zirconium anti-soil treatment of synthetic fibers and resultant article. 3,671,292, 6-20-72, Cl. 117-62.000.
- Hirshfeld, Julian J.; Reuben, Bertie J.; and Hacklander, Egon H., to Monsanto Company. Glue and dye in nylon-jute carpet dyeing. 3,682,582, 8-8-72, Cl. 8-18.000.
- Hirshon, Jack M.; and Warner, Philip D., to TRW Inc. Semiconductor device and method of making the same. 3,678,346, 7-18-72, Cl. 317-234.00r.
- Hirst, Archie John, to Dunlop Company Limited, The. Vehicle suspensions. 3,680,888, 8-1-72, Cl. 280-124.00r.
- Hirst, Charles M., Jr.; and Lipshild, Eugene C., to Orscheln Brake Lever Mfg. Company. Parking brake operating means. 3,693,472, 9-26-72, Cl. 74-518.000.
- Hirst, David Graham Spencer, to Procter & Gamble Company, The. Lime soap dispersants and compositions containing them. 3,660,470, 5-2-72, Cl. 260-501.12.
- Hirst, Ian Johnson: *See—*
Tilly, John Frederick; and Hirst, Ian Johnson, 3,637,955.
- Hirst, Robert G.; and Desnoyers, George J., to General Electric Company. Insulating coating and method of making the same. 3,705,826, 12-12-72, Cl. 148-6.160.
- Hirst, Sidney. Transformer with variable secondary reactance. 3,686,464, 8-22-72, Cl. 219-131.000.
- Hirt, Andrew J., to Hanger Supply Company. Pipe hanger. 3,652,045, 3-28-72, Cl. 248-62.
- Hirt Combustion Engineers: *See—*
Hirt, John H., 3,637,343.
- Hirt, John H., to Hirt Combustion Engineers. Method for incineration of combustible material in a continuous flow of a gaseous medium. 3,637,343, 1-25-72, Cl. 23-2.
- Hirt, Thomas J.; Kissinger, Richard D.; Kendall, John P.; and Frantzen, Karl H., to Northern Natural Gas Company. Apparatus for heating gases to high temperatures. 3,707,644, 12-26-72, Cl. 313-231.000.
- Hirt, Wilhelm; Lehnerdt, Hagen; Weckesser, Ernst; Weinhold, Gottfried; and Wrigge, Friedrich Wilhelm, to Vereinigte Aluminium-Werke Aktiengesellschaft. Apparatus for improving the heat economy of an electrolytic cell for the production of aluminum. 3,673,04, 6-27-72, Cl. 204-243.00r.
- Hirth, Alfred: *See—*
Lingg, Gerhard; and Hirth, Alfred, 3,705,001.
- Hirth, William R., to Optonics Corporation. Framing adjuster for single frame filmstrip projector. 3,694,064, 9-26-72, Cl. 352-163.000.
- Hirtreiter, Walter J. Method and apparatus for balancing a body about an axis. 3,690,152, 9-12-72, Cl. 73-66.000.
- Hirtz, Hanns Joachim: *See—*
Hirtz, Hans; and Hirtz, Hanns Joachim, 3,695,267.
- Hirtz, Hans; and Hirtz, Hanns Joachim. Inhalator for moist air. 3,695,267, 10-3-72, Cl. 128-192.000.
- Hiruma, Kenji, to Kabushiki Kaisha Ricoh. Shutter for use in a camera. 3,633,485, 1-11-72, Cl. 95-60.
- Hiruma, Kenji, to Kabushiki Kaisha Ricoh. Eye-level eyepiece shielding device for eye-level and waist-level viewfinder. 3,643,573, 2-22-72, Cl. 95-42.
- Hiruma, Kenji, to Ricoh Co., Ltd. View-finder for single lens reflex cameras. 3,651,735, 3-28-72, Cl. 88-1.5.
- Hiruma, Teruo: *See—*
Akuta, Tomohiko; Honsyo, Yoshi; Hashirizaki, Sinya; Hiruma, Teruo; and Kurasawa, Kazuo, 3,678,192.
- Hiruta, Makoto: *See—*

- Suzuki, Hisao; Musashi, Akira; Hiruta, Makoto; and Muramoto, Hiroo, 3,678,014.
 Hiruta, Mitto: *See*—
 Ishida, Shinichi; Fujita, Norimasa; Oshima, Yoshisada; Tanaka, Teturo; and Hiruta, Mitto, 3,657,189.
 Hiruta, Shiro: *See*—
 Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Tetsuhiro, Kusunose; Isumaki, Tatsuchi; and Ota, Masami, 3,700,662.
 Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Kusunose, Tethiro; Tsumaki, Tatsuchi; and Ota, Masami, 3,705,877.
 Hisabayashi, Satoshi, to Iwatsu Electric Co., Ltd. Cutting device of a copy machine. 3,650,170, 3-21-72, Cl. 83-349.
 Hisada, Takeo; Nakajima, Fumio; Nishi, Takeshi; and Sugiyama, Kunro, to Tokico Ltd. Liquid level detecting apparatus. 3,680,579, 8-1-72, Cl. 137-81,500.
 Hisaka Works, Ltd.: *See*—
 Izeiki, Hazime, 3,631,923.
 Hisamatsu, Tokuchi: *See*—
 Honda, Makoto; Kubota, Yasuhiro; Aoshima, Atsushi; Hisamatsu, Tokuchi; and Ueda, Minoru, 3,666,632.
 Hisamori, Tetsuo: *See*—
 Okada, Hiroshi; Osakada, Atsushi; Minami, Satoyuki; Aoki, Toshikazu; Hisamori, Tetsuo; Koyanagi, Hironobu; and Otsuka, Hiromi, 3,692,602.
 Hisatome, Tomio: *See*—
 Taniguchi, Kaname; Furukawa, Fujio; Hisatome, Tomio; and Kimura, Yoshito, 3,677,660.
 Hisatsune, Hideyoshi. Lock having magnets incorporated in rotary tumblers. 3,633,393, 1-11-72, Cl. 70-276.
 Hisatsune, Tomio: *See*—
 Uchiyamada, Kameo; Sato, Kazuo; and Hisatsune, Tomio, 3,684,309.
 Hiscock, Earle F. Sail rig. 3,693,571, 9-26-72, Cl. 114-102,000.
 Hiscocks, Stephen Edward Ralph, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Electrical device substrates. 3,688,018, 8-29-72, Cl. 174-68,500.
 Hiscox, Harold C.; and Arnold, Larry R., to Westinghouse Electric Corporation. Precision approach and landing system. 3,634,862, 1-11-72, Cl. 343-108.
 Hiscox, Leonard R., to Girling Limited. Braking systems for vehicles. 3,664,712, 5-23-72, Cl. 303-21.
 Hiscox, Leonard Remy, to Girling Limited. Anti-skid control system utilizing a pump circuit for producing a voltage dependent on frequency. 3,652,134, 3-28-72, Cl. 303-21.
 Hiser, Robert Darrell: *See*—
 Knopf, Robert John; Bowne, Lloyd Marshall; and Hiser, Robert Darrell, 3,663,506.
 Hisey, Richard M.: *See*—
 Kauffman, Harold L.; and Hisey, Richard M., 3,666,582.
 Hishida, Yukio; Kato, Takami; and Kurachi, Hisao, to Brother Industries Ltd. Repeat action mechanism for power operated typewriters. 3,638,775, 2-1-72, Cl. 197-17.
 Hishida, Yukio; Kato, Takami; Hirata, Takashi; and Kurachi, Hisao, to Brother Industries Ltd. Power operated typewriter with interlock means. 3,642,110, 2-15-72, Cl. 197-107.
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 Hispano Suiza (Swiss) S.A.: *See*—
 Vignon, Louis, 3,686,847.
 Hiszpanski, Jan A., to I-T-E Imperial Corporation. High performance fitting. 3,707,302, 12-26-72, Cl. 285-116,000.
 Hit Archery Co., Inc.: *See*—
 Hitt, Otis H., 3,674,001.
 Hitachi Cable, Ltd.: *See*—
 Miyadera, Yasuo; Masuko, Tatuo; Muroi, Tadashi; Okada, Shinichi; and Noguchi, Hiroshi, 3,639,342.
 Tanaka, Eiichi; Fukuda, Takeji; Yamaji, Kenkichi; Miyake, Yasuhiko; Ota, Hiroshi; and Kimura, Katsuo, 3,646,796.
 Hitachi Chemical Company, Ltd.: *See*—
 Maeda, Yo; Suzuki, Satoshi; Nakamura, Yoshiharu; Masubuchi, Yoritomo; Ueyama, Tamotsu; Fukutomi, Naoki; and Takahashi, Hiroshi, 3,646,670.
 Miyadera, Yasuo; Masuko, Tatuo; Muroi, Tadashi; Okada, Shinichi; and Noguchi, Hiroshi, 3,639,342.
 Muroi, Tadashi; Sato, Mikio; and Ogata, Masatzugu, 3,705,129.
 Nakamura, Syuhei; and Takakamo, Hironobu, 3,635,484.
 Nakamura, Masaji; Tsukui, Michio; Mukai, Junji; Narahara, Toshikazu; and Noguchi, Sumio, 3,705,208.
 Ogata, Masatzugu; Sato, Mikio; Watanabe, Yutaka; and Suzuki, Hiroshi, 3,637,572.
 Tsukui, Michio; Watanabe, Yutaka; Suzuki, Hiroshi; Kitamura, Masahiro; and Mori, Yoshisuke, 3,658,750.
 Uchida, Shinji; Nishizawa, Hiroshi; and Sone, Yasuo, 3,655,628.
 Hitachi Construction Machinery Co., Ltd.: *See*—
 Ikeda, Toshimichi, 3,659,419.
 Hitachi Electronics Engineering Co., Ltd.: *See*—
 Kiyomiya, Hiromoto; Fukumiya, Yukio; Aoki, Mithuzi; and Mama, Hiromichi, 3,703,611.
 Hitachi, Ltd.: *See*—
 Abe, Yoritune, 3,638,447.
 Abe, Zenmon; Suzuki, Takaji; Tsuneoka, Masayuki; Kimura, Eiichi; Akazome, Teizo; Obayashi, Kanji; and Kasai, Gengo, 3,658,055.
 Akahori, Hiroshi; Ohnuma, Yoshiro; and Kubozoe, Morioki, 3,636,346.
 Akatsu, Mitsuharu; Kinoshita, Tomoo; and Iwasaki, Tadahiko, 3,706,003.
 Akcyama, Kenji; and Miyamoto, Norimasa, 3,686,698.
 Akcyama Masamoto; and Takahashi, Sohji, 3,678,575.
 Amano, Hisao; Ueda, Akiteru; Yokoyama, Kenjiro; and Ogata, Fumio, 3,662,248.
 Araya, Takeshi; and Udagawa, Tsugio, 3,693,858.
 Asai, Shojiro; Hirao, Motohisa; and Maruyama, Eiichi, 3,697,338.
 Doi, Tetsuo; and Sagae, Shoji, 3,662,395.
 Ejiri, Masakazu; Kamoi, Akira; Numakura, Toshio; Isoda, Kenichi; and Mori, Ryutaro, 3,634,689.
 Emoto, Masayuki; and Maki, Yoshiyuki, 3,698,956.
 Eto, Yoshizumi; and Hibi, Masao, 3,647,947.
 Eto, Yoshizumi; and Hibi, Masao, 3,647,948.
 Ezawa, Masayoshi, 3,689,792.
 Fujino, Nobuhiro, 3,638,467.
 Fujisaki, Yoshio; Suzuoki, Akira; and Ishibashi, Eiichi, 3,639,673.
 Fukui, Kakichi; and Imai, Shiro, 3,638,468.
 Fukushima, Masakazu; and Kimura, Katuhiro, 3,639,797.
 Goto, Kimio; and Nakamura, Hiroyasu, 3,647,975.
 Goto, Tadashi, 3,672,206.
 Hachisu, Mikio; Niyama, Eisuke; Sasaki, Ryoichi; Hataya, Humio; and Fukui, Yutaka, 3,658,516.
 Hachisu, Mikio; Saito, Chikanori; Sitamura, Osamu; and Nambu, Yasuo, 3,659,323.
 Hara, Takeshi; Nakao, Shoichi; and Teranishi, Katsuya, 3,658,166.
 Hashimoto, Hiroshi; Satou, Takehide; Sudo, Kengo; and Ono, Naoya, 3,694,092.
 Hashimoto, Takesaburo, 3,684,163.
 Hayashi, Masahiro; Seki, Koichi; and Chinbe, Hiroshi, 3,689,126.
 Hibi, Susumu; and Fujiwara, Hideo, 3,636,534.
 Hohsho, Yukio; Yamada, Koichiro; Oyama, Yoshishige; Teranishi, Takao; and Suzuki, Seikou, 3,669,423.
 Hojo, Toki; Sasaki, Toshio; Motojima, Hiroshi; and Sasaki, Hideaki, 3,681,171.
 Hojo, Toki; Matui, Takao; and Kimura, Rikiti, 3,684,384.
 Homma, Noriyuki, 3,697,967.
 Hosoda, Taisei; Uzuhashi, Hideo; Osiyama, Hiroichi; and Ioka, Kazuo, 3,657,899.
 Hujita, Minoru; Nagata, Minoru; and Kubo, Seiji, 3,636,372.
 Ichiki, Toshinobu; Okuda, Hironori; and Arai, Keiji, 3,643,118.
 Ichiryu, Ken; and Takenoshita, Mitsuki, 3,672,398.
 Ihochi, Takahiko, 3,644,798.
 Ii, Chikaf, 3,634,630.
 Iida, Shinya; Sato, Hitoshi; and Takeda, Yutaka, 3,660,734.
 Imura, Tsutomu; Kurokawa, Susumu; and Emoto, Masayuki, 3,640,867.
 Ikegami, Kazutoshi; Ikeda, Hideo; Takeuchi, Kazumi; Kitamura, Kosuke; and Takahashi, Susumu, 3,648,179.
 Ishimatsu, Kenji; and Tabuchi, Hideho, 3,633,478.
 Isogai, Tokio; Isikawa, Eiichi; Yuza, Hisashi; Tahara, Takasi; Miyashita, Takao; and Ikemoto, Norio, 3,654,543.
 Ito, Hisatsugu, 3,683,266.
 Itoh, Yokichi; and Hashimoto, Norikazu, 3,642,526.
 Kadono, Shinji, 3,686,515.
 Kaino, Yoku, 3,639,675.
 Kajiwara, Toshiyuki; Nakanishi, Tsuneo; and Sato, Tatsuhiro, 3,635,417.
 Kamiyama, Takamitsu; and Maki, Michiyoshi, 3,645,808.
 Kanda, Kimio, 3,664,743.
 Kanda, Kimio; and Ono, Kunio, 3,697,866.
 Kano, Tsuyoshi; Otomo, Yoshiro; and Yamamoto, Hajime, 3,655,577.
 Kasai, Shozo; Shimizu, Daisaburo; and Katagiri, Shinjiro, 3,643,191.
 Kasama, Ryoji; and Kuriyama, Sigeru, 3,659,119.
 Kasama, Ryoji; and Suda, Seiji, 3,659,565.
 Kasano, Hiroyuki; and Kawamura, Masao, 3,678,302.
 Kasano, Hiroyuki; Kurata, Kazuhiro; Ogirima, Masahiko; Kawamura, Masao; and Kusumoto, Hazime, 3,694,759.
 Katto, Hisao; Kobayashi, Kazunari; Koga, Yasushi; and Koyama, Machiko, 3,668,095.
 Kawabe, Ushio; Kimura, Hiroshi; and Doi, Toshio, 3,662,689.
 Kawabe, Ushio; Kimura, Hiroshi; Tomeoku, Hiroshi; and Doi, Toshio, 3,673,444.

- Kawamura, Seiichi; Arano, Isamu; and Nakajima, Fumito, 3,660,626.
 Kawamura, Takao, 3,689,266.
 Kawamura, Takao, 3,703,655.
 Kawasaki, Jun; and Uehara, Hiroshi, 3,675,219.
 Kimura, Chikara, 3,679,900.
 Kimura, Katuhiro; and Kaneko, Yoichi, 3,639,856.
 Kimura, Naokazu, 3,643,222.
 Kishino, Tatsuo, 3,660,702.
 Kiyomiya, Hiromoto; Fukumiya, Yukio; Aoki, Mithuzi; and Mama, Hiromichi, 3,703,611.
 Kobayashi, Kazuo, 3,649,385.
 Koga, Yasushi; Kozuka, Hirotosugu; and Tauchi, Shoji, 3,682,699.
 Kojima, Hiroomi; Nomura, Sadao; and Kumada, Akio, 3,667,828.
 Kondo, Eioku; Usuda, Hirotaka; Suzuki, Hidemasa; and Furuya, Tuneso, 3,647,981.
 Kondo, Toshio; and Tamura, Hifumi, 3,699,381.
 Koshikawa, Tsuneji; and Kobayashi, Masaharu, 3,634,759.
 Kotera, Nobuo; and Katayama, Yoshifumi, 3,665,190.
 Kubo, Masaharu; Hori, Ryoichi; and Nagata, Minoru, 3,703,710.
 Kubokura, Kuniaki; and Sugiyama, Iwao, 3,659,172.
 Kumada, Akio; and Koga, Masashi, 3,661,442.
 Kumada, Akio; Suzuki, Kenkichi; and Kitta, Kenichi, 3,670,211.
 Kumada, Akio, 3,684,351.
 Kurokawa, Noriyuki; and Minami, Hiroshi, 3,692,990.
 Kurose, Tadashi; Kagaya, Ryuichi; Ono, Kunio; and Kanda, Kimio, 3,689,828.
 Machida, Takehiko; Yoshida, Yukio; Fujii, Noriyoshi; and Yokoyama, Kenjiro, 3,636,431.
 Machida, Takehiko; Yoshida, Yukio; Iwata, Koji; and Yokoyama, Kenjiro, 3,659,186.
 Masuhara, Toshiaki; Nagata, Minoru; and Kubo, Masaharu, 3,700,981.
 Matsumura, Koji; and Seki, Kunio, 3,643,152.
 Matsuura, Shigeo, 3,638,301.
 Miki, Ryoji; Kayashima, Kouzo; and Tsuneo, Uraki, 3,688,200.
 Minami, Shigeo; and Fukuda, Kenji, 3,663,106.
 Minami, Shigeo, 3,683,164.
 Minami, Tohru; Nishio, Mikio; Toyama, Ichiro; Kawano, Shigeyoshi; Imai, Masumi; Takuma, Yutaka; and Kitanosono, Hidehiro, 3,688,555.
 Minowa, Tsutomu, 3,694,661.
 Mitani, Masao; Aihara, Katuzo; Kudo, Mitsuhiko; Hara, Nobuhiro; Irie, Fujio; and Yamafuji, Kaoru, 3,697,826.
 Mitsui, Nobuo; Hatakeyama, Takanobu; and Komuro, Katsu, 3,687,235.
 Mitsui, Tsuneo; Nakayama, Keizo; Kobayashi, Tetsuo; and Okuda, Kenzo, 3,657,728.
 Miyadera, Yasuo; Masuko, Tatuo; Muroi, Tadashi; Okada, Shinichi; and Noguchi, Hiroshi, 3,639,342.
 Miyata, Yoshihiko, 3,688,360.
 Mizuno, Kaoru; Kitamura, Tetsuo; Nakao, Shoichi; Yasuda, Takchiko; Ueno, Akio; Yoshikawa, Kyunjojo; Yuminaka, Takeo; and Sakata, Kazuhiro, 3,662,905.
 Moriyama, Hiromi; and Hibi, Susumu, 3,653,121.
 Mouri, Katsuo; Miyazaki, Gentaro; and Nabeyama, Hiroaki, 3,691,475.
 Murakami, Tadao; Kikuchi, Ken; Tomozaki, Riyouzou; and Ohuchi, Yasushi, 3,703,227.
 Murata, Norio; Takeda, Toshihiko; Sakai, Hirochika; and Matsuda, Nobuyuki, 3,680,653.
 Murata, Toshio; and Yasui, Atsushi, 3,633,530.
 Murato, Kenichi; Takei, Kenji; and Takayama, Masayuki, 3,646,891.
 Muroi, Tadashi; Sato, Mikio; and Ogata, Masatzugu, 3,705,129.
 Nagai, Hiroshi, 3,699,565.
 Nagata, Minoru; and Sato, Kozi, 3,652,347.
 Nagata, Takao; Takasaka, Masahiro; and Kimura, Ichiro, 3,698,414.
 Nakagami, Norihiko; Tanaka, Yasuyuki; Kotaka, Katsuhiko; and Seki, Masamitsu, 3,652,806.
 Nakagami, Noriyuki, 3,656,008.
 Nakajima, Toshihiko; and Yumde, Yasufumi, 3,685,886.
 Nakamura, Toshio; Arai, Hidetoshi; Tatekawa, Shozo; and Kawai, Sadaharu, 3,663,077.
 Nakamura, Masaji; Tsukui, Michio; Mukai, Junji; Narahara, Toshikazu; and Noguchi, Sumio, 3,705,208.
 Nishikazu; and Sato, Mikio; Watanabe, Yutaka; and Suzuki, Hiroshi, 3,637,572.
 Nishida, Hideo; Yamaguchi, Kunihiko; Kumasaka, Noriyuki; Sugita, Yutaka; and Fujiwara, Hideo, 3,673,581.
 Nishimura, Takeo, 3,699,011.
 Nishiyama, Shizuo; and Tanaka, Makoto, 3,681,527.
 Ogata, Masatzugu; Sato, Mikio; Watanabe, Yutaka; and Suzuki, Hiroshi, 3,637,572.
 Ogawa, Hiroshi; Yamane, Sigeto; Nakagawa, Hisasi; and Uchida, Akinari, 3,672,355.
 Ogura, Mitsuo; and Fukazawa, Shinichi, 3,667,624.
 Ogura, Mitsuo; and Itoh, Satoshi, 3,703,706.
 Ohama, Tsuyoshi; and Iwasaki, Tetsuji, 3,681,118.
 Ohashi, Shin-ichi; and Nomoto, Hiroshi, 3,636,378.
 Ohta, Masaya, 3,635,774.
 Oikawa, Mitsuru; Tamura, Shozo; and Okabe, Tadao, 3,688,359.
 Oishi, Asao; Yabuki, Takashi; and Morigutt, Kazuo, 3,636,360.
 Oishi, Asao; Doi, Takao; and Ueno, Yoshimasa, 3,658,436.
 Oishi, Asao; and Sashino, Shozzo, 3,669,560.
 Okabe, Tadao; Tanaka, Makoto; Tamura, Shozo; Fukushima, Masakazu; and Oikawa, Mitsuru, 3,668,002.
 Okabe, Tadao; Oikawa, Mitsuru; Tanaka, Makoto; and Nagashiro, Waichi, 3,703,374.
 Okabe, Takahiro; Nagata, Minoru; and Makimoto, Tsugio, 3,707,036.
 Okoshi, Takanori; and Migitaka, Masatoshi, 3,639,857.
 Okuyama, Kenichi, 3,691,494.
 Okuyama, Toshiaki; and Watanabe, Hiroshi, 3,660,739.
 Omura, Ito; Kondo, Toshio; and Tamura, Hifumi, 3,686,499.
 Ono, Minoru; and Momoi, Toshimitu, 3,645,807.
 Onoda, Yoshimitsu; and Tsuboi, Takashi, 3,686,548.
 Oshima, Ryoichi; Miyamoto, Seigo; Kanemoto, Kazuo; and Ichikawa, Michio, 3,683,637.
 Osoegawa, Hideru; and Kobayashi, Katuei, 3,641,663.
 Osoegawa, Hideru; and Kobayashi, Katuei, 3,673,478.
 Oshige, Takayoshi; and Iizuka, Kikuo, 3,696,311.
 Ozawa, Minoru; Morito, Tadashi; and Ishigami, Masahiro, 3,686,598.
 Sagusa, Hisayuki; Takeuchi, Seiji; and Arikawa, Yoshijiro, 3,694,160.
 Sakabe, Akira; and Sugimoto, Kinji, 3,665,149.
 Sakai, Toshinori, 3,707,703.
 Sakamoto, Yuzaburo; and Otsuki, Keizo, 3,659,821.
 Sakamoto, Yuzaburo; and Toyooka, Morio, 3,672,047.
 Sakurai, Katumi; and Odajima, Kenji, 3,682,789.
 Sakurai, Yo; Tamura, Teizo; and Hashimoto, Norikazu, 3,656,229.
 Sasaki, Akio; Sakata, Hiroshi; and Tsuboi, Nobuyoshi, 3,653,329.
 Sasaki, Ryoichi; and Irino, Toru, 3,635,770.
 Sasaki, Ryoichi; and Asano, Choichi, 3,682,717.
 Sato, Kogo; Kato, Hiroshi; and Ohnishi, Shinji, 3,672,984.
 Sato, Shintaro; and Kato, Shigeo, 3,636,719.
 Seki, Kunio; and Matsumura, Koji, 3,643,159.
 Seki, Susumu, 3,673,396.
 Seki, Susumu; Noumi, Makoto; and Takaoka, Tadashi, 3,679,879.
 Sekine, Kenji; and Kaneko, Yoichi, 3,665,341.
 Shigetani, Masayuki; and Aoki, Katsumi, 3,641,832.
 Shima, Seiya, 3,670,851.
 Shimada, Hiroshi; Nagai, Mitsuru; Ohfujii, Mitsuo; and Sasaki, Toshiyuki, 3,690,305.
 Shimbo, Chiaki; Kojima, Hiroomi; Sekiya, Michio; Takeyasu, Kiyoo; and Sadao, Nomura, 3,658,409.
 Suda, Seiji; and Ishizaki, Masayuki, 3,636,931.
 Suda, Seiji, 3,682,144.
 Takahashi, Kazusaburo; Sasaki, Takeshi; Takeuchi, Hisauke; Morita, Keiichi; and Toda, Tadatoshi, 3,652,904.
 Takahashi, Sankichi; Otake, Katsumoto; and Horiuchi, Toshiaki, 3,707,442.
 Takahashi, Susumu; Nakashima, Hisao; and Migitaka, Masatoshi, 3,660,178.
 Takashashi, Yoshinori; Sasaki, Rokuro; Watanabe, Kikuo; and Takizawa, Masau, 3,685,618.
 Takashima, Tuneso, 3,682,563.
 Takemoto, Takeo; Miyata, Yoshihiko; and Kawamura, Takao, 3,647,960.
 Taniguchi, Kenji; Imaizumi, Ichiro; and Hotta, Atsuo, 3,657,575.
 Taniguchi, Tetsuji; Fukui, Kakichi; Imai, Shiro; Hayashi, Masahiro; and Seki, Koichi, 3,678,722.
 Tanno, Kiyohiko, 3,684,368.
 Tauchi, Shoji; Miwa, Ichiro; and Homma, Makoto, 3,707,410.
 Tokuyama, Takashi; and Mori, Takaaki, 3,632,433.
 Tominaga, Yoshio; Kawagoe, Hiroto; and Teranishi, Yuichi, 3,688,165.
 Toriyama, Kazuhisa, 3,659,102.
 Tsuchimoto, Takashi, 3,635,767.
 Tsuchimoto, Takashi; Tokuyama, Takashi; and Komatsubara, Kiichi, 3,660,171.
 Tsukada, Toshihisa, 3,680,049.
 Tsukioka, Hideo; and Shito, Nobuhiko, 3,657,468.
 Tsukuda, Kiyoshi; Kamel, Tatsya; and Ogawa, Takuzo, 3,688,164.
 Tsukui, Michio; Watanabe, Yutaka; Suzuki, Hiroshi; Kitamura, Masahiro; and Mori, Yoshisuke, 3,658,750.
 Tutui, Mitukuni; and Watanabe, Hiroshi, 3,683,881.
 Uchida, Atsuyoshi; and Miyata, Yoshihiko, 3,670,376.
 Uchino, Koichi; and Inomata, Hiroshi, 3,680,960.
 Umeda, Junichi, 3,634,872.
 Umeda, Junichi, 3,636,416.

Watai, Mitsuo; and Koya, Ito, 3,673,446.
 Watanabe, Akinori; Takahashi, Yoshinori; Yahiro, Seinosuke; and Watanabe, Kikuo, 3,707,206.
 Yamabe, Masahiro, 3,639,080.
 Yamada, Eiichi; Arakawa, Yoshiteru; Yamamoto, Masayuki; and Nagatomo, Hiroto, 3,641,974.
 Yamaguchi, Isao, 3,659,339.
 Yamamoto, Masayuki; Toki, Hisashi; and Shibuya, Hideo, 3,668,004.
 Yamamoto, Masayuki; Toki, Hisashi; and Shibuya, Hideo, 3,697,334.
 Yamane, Mikiya; Saito, Akira; Matsumoto, Katsuyoshi; Kawasumi, Kenichi; Murayama, Kazuo; and Sugiyama, Hiroshi, 3,642,340.
 Yano, Masayoshi; and Noda, Tamotsu, 3,654,457.
 Yasuda, Tetutarō; and Nakanishi, Tsuneo, 3,638,523.
 Yoshikawa, Mituhiko; Nihei, Hiroshi; and Shibasaki, Hiroichi, 3,691,423.
 Yuminaka, Takeo; Iwasaka, Tatsuo Co., Ltd.; Matsuzawa, Hideto; Kawatake, Koichi; and Hirasawa, Kotaro, 3,642,099.
 Hitachi Maxell, Ltd.: See—
 Kawakami, Akira, 3,642,539.
 Hitachi Metals, Ltd.: See—
 Hiraoka, Michito; and Hikita, Yoshihiko, 3,682,265.
 Sasaki, Ryoichi; and Irino, Toru, 3,635,770.
 Hitachi Powdered Metals Co., Ltd.: See—
 Takahashi, Mitsuo; Ito, Koji; and Kaga, Sadao, 3,694,127.
 Hitachi Shipbuilding and Engineering Co., Ltd.: See—
 Ashida, Hiroshi, 3,694,893.
 Ikuo, Yorio; Okabayashi, Minoru; Ono, Keisuke; Mizugaki, Yoshikazu; and Hayashi, Juntaro, 3,674,129.
 Nakai, Tuneso; Ando, Akira; Minchisa, Setuzi; Kaneko, Shunsuke; Siraki, Yosinori; Inui, Tatsu; Nakazima, Hiroyuki; and Tominaga, Naotugu, 3,660,629.
 Nishimaki, Ko; and Yoshikawa, Isamu, 3,670,917.
 Satone, Hiroyuki, 3,689,366.
 Hitchock Gas Engine Co., Inc., The: See—
 Worobel, Walter J., 3,698,025.
 Hitchins, Gary O.: See—
 Reeves, John R.; and Hitchins, Gary O., 3,688,177.
 Hitco: See—
 Hatch, Donald Monroe; and Wood, Walter W., 3,633,631.
 Look, Lance G.; and Erickson, David G., 3,666,210.
 Wissner, Irving E., 3,659,493.
 Hite, Perry J.: See—
 Sarkozi, Miklos; Szabo, Andras I.; and Hite, Perry J., 3,697,896.
 Hitemp Wires, Inc.: See—
 Mancino, John J., 3,683,103.
 Hitomi, Teichi; Kotera, Noboru; and Sakamoto, Hitoshi, to Dai Nippon Torio Kabushiki Kaisha. Thermoluminescent materials. 3,682,833, 8-8-72, Cl. 252-301.00r.
 Hitosugi, Takeo. Universal automatic bending press. 3,686,952, 8-29-72, Cl. 72-396.000.
 Hitt, Donald C., to International Business Machines Corporation. Instruction execution and re-execution with in-line branch sequences. 3,654,448, 4-4-72, Cl. 235-153.
 Hitt, James J.: See—
 Cheng, Theodore; and Hitt, James J., 3,657,480.
 Hitt, Otis H., to Hit Archery Co., Inc. Archery bow combination with draw force multiplying means. 3,674,001, 7-4-72, Cl. 124-24.000.
 Hittel, Erwin Ross; and Rennie, Foster Wilson, to Du Pont de Nemours, E. I., and Company. Process of recovering polyester from polyester films having polymeric coatings. 3,652,466, 3-28-72, Cl. 260-2.3.
 Hittel, William C.; and Sachs, Charles M., to International Playtex Corporation. Foundation garment. 3,699,971, 10-24-72, Cl. 128-491.000.
 Hittle, Eugene C.: See—
 Collins, Edward C.; and Hittle, Eugene C., 3,698,780.
 Hittmair, Paul: See—
 Kaiser, Wolfgang; Nitzsche, Siegfried; Wohlfarth, Ernst; and Hittmair, Paul, 3,677,996.
 Kaiser, Wolfgang; Nitzsche, Siegfried; Wohlfarth, Ernst; Strasser, Alois; and Hittmair, Paul, 3,677,997.
 Kaiser, Wolfgang; Nitzsche, Siegfried; Wohlfarth, Ernst; and Hittmair, Paul, 3,678,003.
 Nitzsche, Siegfried; Kaiser, Wolfgang; Wohlfarth, Ernst; and Hittmair, Paul, 3,647,725.
 Nitzsche, Siegfried; Kaiser, Wolfgang; Wohlfarth, Ernst; and Hittmair, Paul, 3,674,738.
 Nitzsche, Siegfried; Kaiser, Wolfgang; Wohlfarth, Ernst; and Hittmair, Paul, 3,677,784.
 Hittmair, Paul; Kaiser, Wolfgang; Nitzsche, Siegfried; and Wohlfarth, Ernst, to Wacker-Chemie G.m.b.H. Room temperature vulcanizable organopolysiloxane elastomer materials. 3,644,434, 2-22-72, Cl. 260-375.
 Hittman Associates, Inc.: See—
 Frank, Louis; and Kling, Harry P., 3,645,703.
 Kaufman, William M.; and Kling, Harry P., 3,667,286.

Yang, Jen T.; Walter, Robert; and Mallory, Charles W., 3,694,353.
 Hitz, Rudolf: See—
 Martin, Henry; Duerr, Dieter; and Hitz, Rudolf, 3,660,484.
 Hitzel, Charles F., to Diamond Shamrock Corporation. Removal of conductive coating from dimensionally stable electrodes. 3,684,577, 8-15-72, Cl. 134-2.000.
 Hitzemann, Gerhard: See—
 Hilgers, Giovanni; Hitzemann, Gerhard; and Kulling, Achim, 3,647,377.
 Hilgers, Giovanni; Hitzemann, Gerhard; and Kulling, Achim, 3,694,168.
 Hitzman, Donald O.; and Alquist, Henry E., to Phillips Petroleum Company. Microbial synthesis from aldehyde containing hydrocarbon derived products. 3,642,578, 2-15-72, Cl. 195-28.
 Hitzman, Donald O., to Phillips Petroleum Company. Hydrocarbon recovery employing aqueous medium driving fluid having increasing viscosity. 3,650,326, 3-21-72, Cl. 166-246.
 Hivert, Andre: See—
 Galmiche, Philippe Marie; and Hivert, Andre, 3,690,934.
 Hivert, Andre; Lepetit, Pierre; and Walder, Andre, to Office National d'Etudes et de Recherches. Methods of preparing fibrous metal materials and to materials prepared thereby. 3,695,869, 10-3-72, Cl. 75-211.000.
 Hivert, Andre R.: See—
 Gohin, Gilles M.; and Hivert, Andre R., 3,658,507.
 Hives, Paul M. Door hinge. 3,646,636, 3-7-72, Cl. 16-140.
 Hix, Charles M., Jr., to Arcadia Refining Company. Underwater storage device. 3,675,427, 7-11-72, Cl. 61-500.
 Hixson, William J. Adjustable cam follower. 3,675,631, 7-11-72, Cl. 123-90.520.
 Hiya, Ryu, to Nippon Gakki Seizo Kabushiki Kaisha. Touch-responsive tone envelope control circuit for electronic musical instruments. 3,634,594, 1-11-72, Cl. 84-1.1.
 Hiya, Ryu, to Nippon Gakki Seizo Kabushiki Kaisha. Touch-responsive tone envelope control circuit for electronic musical instruments. 3,636,232, 1-18-72, Cl. 84-1.24.
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 Hiya, Ryu, to Nippon Gakki Seizo Kabushiki Kaisha. Keyer control circuit for electronic musical instruments. 3,657,463, 4-18-72, Cl. 84-1.26.
 Hiya, Ryu, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument with expression control device for simultaneous controlling different tone signals by different amounts. 3,672,253, 6-27-72, Cl. 84-1.270.
 Hiya, Ryu, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument having automatic bass tone selector. 3,697,664, 10-10-72, Cl. 84-1.170.
 Hiya, Takami: See—
 Yoshimura, Ippei; Fukue, Norihiko; Sakamoto, Hiroshi; Murofushi, Hisashi; Hiya, Takami; and Matsunaga, Takao, 3,679,707.
 Hiya, Yasuo: See—
 Seki, Toshio; Hiya, Yasuo; and Sato, Yoshitaka, 3,702,858.
 Hiya, Yoshio; Fujita, Haruo; Tsunetomi, Eiichi; Okada, Kan; and Kude, Satoshi, to Nippon Steel Corporation. Automatic oscillating arc welding method and apparatus. 3,681,564, 8-1-72, Cl. 219-125.00r.
 Hiya, Ryo, to Nippon Gakki Seizo Kabushiki Kaisha. Automatic ensemble device for a keyboard electronic musical instrument. 3,694,562, 9-26-72, Cl. 84-1.190.
 Hiyo, Hiroshi; and Kanda, Masao, to Fuji Photo Film Co., Ltd. Method of coating by delaying the control signal for operating the coating apparatus. 3,700,490, 10-24-72, Cl. 117-120.000.
 Hizume, Akio; Ohya, Shuji; and Tanaka, Shigehito, to Mitsubishi Jukogyo Kabushiki Kaisha. Vibration force exciting method and apparatus. 3,651,688, 3-28-72, Cl. 73-71.5.
 Hjelm, Erik V. Pickup truck box mounted cab. 3,652,121, 3-28-72, Cl. 296-26.
 Hjelmquist, Stig Gunnar. Lawn-mowers with horizontally rotating knives. 3,705,484, 12-12-72, Cl. 56-320.200.
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 Dettloff, Richard L.; and Hlavaty, Victor, 3,638,552.
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 Hoad, John G., & Associates: See—
 Hoad, John G., 3,670,669.
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 Hoagland, Porter, Jr., 3,659,242.
 Hoagland, Le Roy F.: See—
 Perdue, Richard R.; Hoagland, Le Roy F.; and Kuehne, Richard O., 3,694,991.
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 Hoagland, Raymond L.: See—
 Ryan, James D.; and Hoagland, Raymond L., 3,643,808.
 Hoarau, Roland J.: See—
 Besson, Jean R.; Cumer, Joseph F.; and Hoarau, Roland J., 3,669,549.
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 Hoback, John T.; and Holub, Fred F., to General Electric Company. Process for producing polyamide acid and polyimides. 3,663,728, 5-16-72, Cl. 260-29.20n.
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 Chiasson, Wilbert A.; Barhorst, Ralph E.; and Muter, Bryce A., 3,688,180.
 Hobart, James Lee; and Mefferd, Wayne S., to Coherent Radiation Laboratories. Optical cavity for a laser. 3,683,297, 8-8-72, Cl. 331-94.500.
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 Athey, Stuart E., 3,646,948.
 Athey, Stuart E.; and Geiger, Paul B., 3,707,156.
 Davis, Kenneth E., 3,673,852.
 Fox, Gerald B.; Dudley, Wray E.; and Athey, Stuart E., 3,706,317.
 Hartley, Richard S., 3,645,310.
 Hartley, Richard S.; and Houser, Franklin Douglass, 3,672,420.
 Hartley, Richard S.; Churley, George; and Houser, F. Douglass, 3,695,171.
 Pratley, Clifford, 3,704,736.
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 Hobbs, Alfred J.: See—
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 Hobbs, Anthony Edward Walter, to British Railways Board. Dampened railway car truck. 3,690,271, 9-12-72, Cl. 105-199.00r.
 Hobbs, Charles C.: See—
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 Hobbs, Charles C.; and Bedford, John A., to Celanese Corporation. Separation of formic acid from acetic acid. 3,660,483, 5-2-72, Cl. 260-541.
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 Hobbs, Jeanie Wright: See—
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 Hobbs, Jim F.; and Smyser, Craig, to Shirco, Inc. Incinerator. 3,648,630, 3-14-72, Cl. 110-8.
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 Hobbs, Millice Floyd: See—
 Shepherd, John Alexander; and Hobbs, Millice Floyd, 3,705,098.
 Hobbs, Milton M., to Westinghouse Electric Corporation. Dump valve. 3,656,708, 4-18-72, Cl. 251-63.6.

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- Bohm, Heinz-Dieter; Muller, Unna Wolfgang; and Hobert, Herbert, 3,706,365.
- Hobgood, James B.: *See—*
- Barwick, Frederick E., III; Smith, Vernon C.; McCullough, Robert W.; and Hobgood, James B., 3,650,663.
- McCullough, Robert W.; Smith, Vernon C.; Barwick, Frederick E., III; and Hobgood, James B., 3,644,080.
- Hobgood, James Barnette: *See—*
- Smith, Vernon C.; Hobgood, James Barnette; and Barwick, Frederick E., III, 3,644,079.
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- Cochran, Rex W.; Helfrich, George F.; Hoblitt, Louis D.; and Liu, Gordon Y. T., 3,632,799.
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- Baxter, Michael David, 3,687,006.
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- Hobrough, Gilbert L., 3,651,416.
- Hobrough, Gilbert L., 3,659,939.
- Hobrough, Gilbert L., 3,674,369.
- Hobrough, Gilbert L., 3,686,489.
- Hobson, H. M., Limited: *See—*
- Glaze, Stanley George; Smith, Charles Philip; and Courtenay, Jerzy Leon, 3,692,260.
- Hobson, David J.: *See—*
- Cooksey, Frank; Dix, Terence A.; and Hobson, David J., 3,705,439.
- Hobson, H. M., Limited: *See—*
- Courtenay, Jerzy Leon; and Neal, Francis John, 3,631,944.
- Courtenay, Jerzy Leon; and Simmons, John Richard, 3,635,242.
- Glaze, Stanley George, 3,675,225.
- Greenland, Leonard Sidney; Smith, Charles Philip; and Marshall, David, 3,655,134.
- Marshall, David; and Lloyd, Arthur Leslie, 3,643,428.
- Neal, Francis John; Courtenay, Jerzy Leon; and Simmons, John Richard, 3,640,092.
- Smith, Charles Philip; and Glaze, Stanley George, 3,638,672.
- Westbury, Roy, 3,653,226.
- Westbury, Roy; and Simmons, John Richard, 3,667,344.
- Hobson, Richard W.: *See—*
- Chen, Albert C.; Butter, Stephen A.; and Hobson, Richard W., 3,687,988.
- Hobson, Russell B., Jr., to Per Corporation. Filter tube and connection thereof to tube sheet. 3,642,141, 2-15-71, Cl. 210-323.
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- Weber, Kenneth E.; Hoch, Geraldine H.; and Wanamaker, John L., 3,664,808.
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- van Zyl, Bernard; and Hoch, Robert L., 3,648,610.
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- Brook, John W.; and Hoch, Samuel, 3,647,748.
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- Hochgesand, Gerhard: *See—*
- Bratzler, Karl; Doerges, Alexander; Hochgesand, Gerhard; and Grunewald, Gerhard, 3,653,810.
- Hochhauser, Arthur; and Clark, Frank, to DCA Food Industries, Inc. Fried cake mix composition. 3,694,228, 9-26-72, Cl. 99-92.000.
- Hochheiser Electronics Corporation: *See—*
- Hochheiser, Jerome S.; Zermeno, Louis; and Sitler, Galen, 3,663,895.
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- Hochlehnert, Franz: *See—*
- Frohlich, Alfons; Hochlehnert, Franz; and Rademacher, Werner, 3,680,604.
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- Moser, Kurt; Hochli, Beat; Volker, Theodor; and Wicht, Paul, 3,651,026.
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- Hochstein, Roland: *See—*
- Thiele, Heinz; Becker, Dietrich; Hochstein, Roland; Rockstroh, Horst; and Lieckfeldt, Hans, 3,701,309.
- Hochstetler, Alan R.: *See—*
- Kitchens, Garry C.; Hochstetler, Alan R.; and Kaiser, Kent, 3,678,119.
- Kitchens, Garry C.; Hochstetler, Alan R.; and Kaiser, Kent, 3,681,470.

- Hochstrasser, Elisabeth Geb. Wack: *See—*
- Blaschke, Kurt, 3,689,113.
- Hochstrasser, Jürgen: *See—*
- Blaschke, Kurt, 3,689,113.
- Hochtief A.G. für hoch-und Tiefbauten vorm. Gebr. Helfmann: *See—*
- Vaessen, Franz, 3,683,574.
- Hochwalt, Norman C.: *See—*
- Fellows, Charles T.; Hermann, Stanley R.; and Hochwalt, Norman C., 3,689,316.
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- Enters, Edward W.; Price, Warren H.; Davies, John W., III; and Hochwitz, Lynn E., 3,678,770.
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- Chiu, Thomas T.; Hock, Kenneth R.; and Nagle, Floyd B., 3,669,718.
- Hock, Walter L.; and Meyers, William E., to Kraftco Corporation. Control system for freezers. 3,667,244, 6-6-72, Cl. 62-136.
- Hocke, Gunter: *See—*
- Nehring, Rudolf; Hocke, Gunter; and Ludwig, Gerhard, 3,702,348.
- Zur Hausen, Manfred; Hocke, Gunter; and Knepper, Wilhelm, 3,652,674.
- Hockenberry, Terry O.: *See—*
- Haswell, Walter T., III; Hockenberry, Terry O.; and Williams, Everard M., 3,663,787.
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- Lewis, James C.; Lewis, Scott C.; and Hockett, Robert M., 3,702,046.
- Hockin, John: *See—*
- Lund, Carl H.; Hockin, John; and Woulds, Michael J., 3,677,331.
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- Hockings, Eric Francis: *See—*
- Moss, Herbert Irwin; and Hockings, Eric Francis, 3,676,610.
- Hockley Chemical Company Limited, The: *See—*
- Corbett, Sydney C., 3,693,639.
- Hockmeyer, Clive E.: *See—*
- Girard, Laurent H.; Hockmeyer, Clive E.; and Ouellette, Marcel C., 3,643,316.
- Hocks, Peter: *See—*
- Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,651,100.
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- Dever, James L.; and Hodan, James J., 3,632,690.
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- Gordon, Irving; Hodan, James J.; and Dever, James L., 3,646,173.
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- Hodder, Wayne Kassell, to Bell & Howell Company. Information recording and reproduction apparatus with signal dispersion and restoration filters. 3,651,277, 3-21-72, Cl. 179-100.2.
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- Hodgdon, Russell B., Jr., to Ionics, Incorporated. Bifunctional cation exchange membranes and their use in electrolytic cells. 3,657,104, 4-18-72, Cl. 204-301.
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- Hodge, Dean E.: *See—*
- Karr, Melvin R.; and Hodge, Dean E., 3,669,676.
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- Hodge, George Alwyn, 3,640,566.
- Hodge, Edward B., to Commercial Solvents Corporation. Zearalenone reduction. 3,697,548, 10-10-72, Cl. 260-343.20f.
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- Hodge, Frederick J., to Minnesota Mining and Manufacturing Company. Dropout compensator having a self-balancing switch. 3,699,246, 10-17-72, Cl. 178-6.600.
- Hodge, George Alwyn, to Hodge Investments Pty. Ltd. and Hodge Distributors Pty. Ltd. Invalid chair. 3,640,566, 2-8-72, Cl. 297-68.
- Hodge, George R.; and Patsis, Angelos V., to Du Pont de Nemours, E. I., and Company. Coating composition of an isocyanate terminated polyurethane, a vinyl chloride polymer and polysiloxane. 3,642,936, 2-15-72, Cl. 260-827.
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- Hodge, James G. Method and apparatus for removing cylinder liners of automotive vehicle diesel engines. 3,685,132, 8-22-72, Cl. 29-427.000.
- Hodge, John D., Jr.: *See—*
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- Ruehle, William H.; Hodge, John D., Jr.; and Gray, William C., 3,671,929.
- Hodge, Peter Charles, to Simms Group Research and Development Limited. Braking apparatus. 3,661,427, 5-9-72, Cl. 303-21.
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- Schmitz, Robert D., 3,700,533.
- Hodges, Claire F.: *See—*
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- Hodges, Frederick R. Drinking receptacle. 3,666,110, 5-30-72, Cl. 210-469.000.
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- Hodges, James Kelly, to Michigan Chemical Corporation. Production of active magnesia. 3,689,218, 9-5-72, Cl. 423-155.000.
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- Hodges, John. Plastic garbage bag holder and sealer. 3,695,565, 10-3-72, Cl. 248-97.000.
- Hodges, John Barry; and Maybury, Gordon Howard. Winding formers for use in the manufacture of rotor assemblies for dynamo electric machines. 3,671,906, 6-20-72, Cl. 336-208.000.
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- Schmitt, Jack N.; and Hodges, Paul E., Jr., 3,633,454.
- Hodges, Peter Kinson, to Girling Limited. Liquid reservoirs. 3,678,232, 7-18-72, Cl. 200-84.00c.
- Hodges, Richard L., to Cities Service Company. Control of fluid dynamics in spiraling gas streams. 3,658,289, 4-25-72, Cl. 251-118.
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- Hodges, Robert James, to International Standard Electric Corporation. Apparatus for displaying and printing information. 3,641,585, 2-8-72, Cl. 346-74.
- Hodges, Roy Kenneth, 50% to Poole, Kenneth. Cattle feed trough treating apparatus and method. 3,643,274, 2-22-72, Cl. 15-56.
- Hodges, William & Co., Inc.: *See—*
- Kesilman, Sol; Kravitz, Milton; and Penn, Hyman B., 3,675,598.
- Hodges, Willmer F.: *See—*
- Palmer, Donald M.; Cotton, Charles C.; and Hodges, Willmer F., 3,696,599.
- Hodgins, Howard A.: *See—*
- Hoffsommer, Walter A.; and Hodgins, Howard A., 3,633,524.
- Hodgins, Howard A., to Enterprise Machine and Development Corporation. Vibratory bowl for feeding buttons. 3,655,028, 4-11-72, Cl. 193-33.

- Hodgins, Howard A., to Enterprise Machine and Development Corporation. Cycle control means for sewing machines. 3,665,872, 5-30-72, Cl. 112-67.000.
- Hodgins, Patrick M.: *See—*
Carter, William R.; Slaybaugh, Charles Jay; and Hodgins, Patrick M., 3,640,420.
- Hodgkinson, Robert, to Steam Power Systems, Inc. Valve actuation system for steam engine. 3,662,553, 5-16-72, Cl. 60-105.
- Hodgman Manufacturing Company, Inc.: *See—*
Hodgman, Willis K., Jr., 3,676,015.
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- Hodgson, Alfred W., to Westinghouse Electric Corporation. Power fuse apparatus. 3,639,873, 2-1-72, Cl. 337-187.
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Seeter, Richard E., Jr.; and Hodgson, George T., Jr., 3,705,276.
- Hodgson, Jo. Wrist bands. 3,677,450, 7-18-72, Cl. 224-4.00e.
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- Hodgson, Peter: *See—*
Dean Hubert W.; and Hovey, Almon G., 3,634,280.
- Hodgson, Robert A.: *See—*
Gravis, Charles K., III; Wood, Harold S.; and Hodgson, Robert A., 3,648,434.
- Hodgson, Robert A., to Maloney-Crawford Tank Corporation. Reconciling hygroscopic liquids used in gas dehydration with reverse osmosis. 3,651,617, 3-28-72, Cl. 55-32.
- Hodgson, Robert F.: *See—*
Petro, John D.; and Hodgson, Robert F., 3,693,350.
- Hodgson, Rodney T., to International Business Machines Corporation. Vapor discharge cell. 3,654,567, 4-4-72, Cl. 331-94.5.
- Hodgson, Stamford, to BP Chemicals Limited. Surface stabilisation process. 3,643,444, 2-22-72, Cl. 61-36.
- Hodgson, William S. Technique for recovering sea moss and the like. 3,691,737, 9-19-72, Cl. 56-9.000.
- Hodgson, William W., and Ash, David J., to International Telephone and Telegraph Corporation. Method for incorporating bread improvers in continuous bread making. 3,666,486, 5-30-72, Cl. 99-91.000.
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Milner, Peter James; and Hodkin, Richard Keith, 3,640,587.
- Hodogaya Chemical Co., Ltd.: *See—*
Kado, Masaru; Kimura, Ichiro; and Sugiyama, Hironari, 3,671,216.
- Hodogaya Chemical Industry Co., Limited: *See—*
Ozutsumi, Minoru; Maeda, Shigeo; and Nakajyo, Teruo, 3,706,725.
- Hodogaya Kagaku Kogyo Kabushiki Kaisha: *See—*
Iizuka, Masao; Igari, Norio; and Maeda, Shigeo, 3,654,259.
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Weichet, Jaroslav; Blaha, Ludvik; Hodorova, Jarmila; Dlabac, Antonin; and Trcka, Vaclav, 3,637,759.
- Hodshire, Vincent B. Fish catching instrumentality. 3,702,512, 11-14-72, Cl. 43-15.000.
- Hodsman, James Burr, to Canadian Johns-Manville Company, Limited. Material securing and transporting apparatus. 3,688,421, 9-5-72, Cl. 38-102.100.
- Hoerber, Gerhard: *See—*
Hubel, Egon; and Hoerber, Gerhard, 3,670,237.
- Hoebergs, Jean Marie Mathieu. Automatic vending machine for cooked or fried food product particularly for french-fried potatoes. 3,685,432, 8-22-72, Cl. 99-357.000.
- Hoechst Fibers Incorporated, mesne: *See—*
Mobius, Heinzhorst; Keil, Gunter; and Jakob, Franz, 3,663,508.
- Hoeck, William N., to Sperry Rand Corporation. Stable solid dielectric microwave resonator and separable wave guide means. 3,636,480, 1-18-72, Cl. 333-83.
- Hoeckele, Max, to Pfisterer, Karl, Fabrik elektrotechnischer Spezialartikel. Portable press. 3,660,883, 5-9-72, Cl. 29-203.
- Hoef, William A., to Weck, Edward & Company, Inc. Method of forming an end taper on plastic tubing. 3,694,280, 9-26-72, Cl. 156-73.000.
- Hoefel, James D.; and Kubach, Reinhold W., to Dayton Electronic Products Company. Billing demand recorder. 3,673,607, 6-27-72, Cl. 346-17.000.
- Hoefleur, Albert, to Regus A.G. Spring-loaded hammer. 3,682,254, 8-8-72, Cl. 173-49.000.
- Hoefleur, Albert. Clamp. 3,685,663, 8-22-72, Cl. 211-106.000.
- Hoefleur, Albert. Welding paste for resistance welding copper parts. 3,697,339, 10-10-72, Cl. 148-24.000.
- Hoefle, Milton L.: *See—*
Short, Franklin W.; and Hoefle, Milton L., 3,657,270.
- Hoefle, Milton L.; and Holmes, Ann, to Parke, Davis & Company, m-(Amino-s-triazolyl)benzenesulfonamides and their production. 3,666,771, 5-30-72, Cl. 260-308.
- Hoeflinger & Karg: *See—*
Wurst, Helmut; and Matthis, Hans, 3,646,631.
- Hoeflin, Melvin W., to Colgate-Palmolive Company. Spherical device for conditioning fabrics in dryer. 3,633,538, 1-11-72, Cl. 118-76.
- Hoeflinger, Richard P., to United States of America, Air Force. Combined steady-state/dynamic total head probe. 3,677,079, 7-18-72, Cl. 73-147.000.
- Hoefnagels, Jan Antonius: *See—*
Delzenne, Gerard Albert; Smets, Georges Joseph; and Hoefnagels, Jan Antonius, 3,652,285.
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- Hoefst, Wolfgang: *See—*
Kreuz, Otto; and Hoefst, Wolfgang, 3,648,758.
- Hoeg, Donald F.: *See—*
Schlott, Richard J.; Hoeg, Donald F.; and Pendleton, John F., 3,647,803.
- Hoegge, Robert A.: *See—*
Hinkle, Ewan M.; and Hoegge, Robert A., 3,633,951.
- Hoegge, Robert A., to Shur-Lok Corporation. Tamper-proof two-way locking nut. 3,674,075, 7-4-72, Cl. 151-21.00b.
- Hoegerle, Karl; Muller, Jean-Claude; Vogel, Christian; and Raumpf, Jurg, to Geigy Chemical Corporation. 2-Ureido-benzamides, their production and use. 3,646,136, 2-29-72, Cl. 260-553.
- Hoegerle, Karl, to Geigy Chemical Corporation. Process for the production of 1,2,4,5-tetrahydro-3-azepines. 3,652,543, 3-28-72, Cl. 260-239.
- Hoegger, Anton, to Muller, Hans. Method of regenerating filter aids. 3,674,146, 7-4-72, Cl. 210-73.000.
- Hoehn, Hans; and Schulze, Ernst, to Squibb, E. R., & Sons, Inc. Dipyrzolo [3,4-β:3,4D]-pyridin-3-ones. 3,669,950, 6-13-72, Cl. 260-295.50t.
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- Hoehn, Hubert H.: *See—*
Appler, Robert L.; and Hoehn, Hubert H., 3,667,849.
- Hoehn, Marvin M.: *See—*
Hamill, Robert L.; and Hoehn, Marvin M., 3,705,238.
- Williams, Robert H.; and Hoehn, Marvin M., 3,674,774.
- Hoehn, Rudolph; and Jadatz, Harald B., to Slater Electric, Inc. Tap switch. 3,684,847, 8-15-72, Cl. 200-67.00a.
- Hoehn, Wolfgang, to ITT Industries, Inc. Integrable revolution measuring circuit with supply voltage transient suppression. 3,706,035, 12-12-72, Cl. 324-169.000.
- Hoehne, Gerd: *See—*
Soehner, Gerhard; and Hoehne, Gerd, 3,648,155.
- Hoehne, Reinhard: *See—*
Bratzler, Karl; Herbert, Wilhelm; Hoehne, Reinhard; and Storp, Klaus, 3,637,352.
- Hoehr, Lothar: *See—*
Wisseroth, Karl; Trieschmann, Hans-Georg; Dodel, Peter; Hoehr, Lothar; Herbeck, Rudolf; and Scholl, Richard, 3,687,917.
- Hockenga, Piet E.: *See—*
Vincken, Leonardus M. J.; Agerbeek, Paul F.; and Hockenga, Piet E., 3,681,928.
- Hockje, Howard H.; Strain, Franklin; and Wilson, William L., to PPG Industries, Inc. Process for preparing pigmentary metal oxide. 3,642,442, 2-15-72, Cl. 23-202.
- Hoeksema, Herman: *See—*
Bergy, Malcolm E.; Hoeksema, Herman; Johnson, LeRoy E.; and Kinch, Donald G., 3,651,219.
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- Sebek, Oldrich K.; and Hoeksema, Herman, 3,652,536.
- Hoeksema, Roy. Method of making tire weighting device. 3,633,263, 1-11-72, Cl. 29-412.
- Hoekstra, Gerald B.; and Jacobs, Robert B., to Standard Oil Company (Indiana). Process and catalyst for hydroprocessing a resid hydrocarbon. 3,674,680, 7-4-72, Cl. 208-111.000.
- Hoekstra, Jan P.: *See—*
Blum, Joseph M.; and Hoekstra, Jan P., 3,668,025.
- Hoell, Paul C., to Du Pont de Nemours, E. I., and Company. Apparatus for copying magnetic tapes. 3,699,267, 10-17-72, Cl. 179-100.20e.
- Hoelscher, Max W.: *See—*
Novajovsky, William A.; and Hoelscher, Max W., 3,701,061.

- Hoelscher, Robert L.: *See—*
Adams, Lloyd M.; and Hoelscher, Robert L., 3,697,017.
- Hoelzinger, Walther J.; Wenninger, Johann; Mayer, Walter; Zoegeritz, Karl; Schroetter, Hermann; and Braun, Werner, to Boise Cascade Corporation. Apparatus for impregnating corrugated cardboard. 3,669,064, 6-13-72, Cl. 118-39.000.
- Hoelzle, Gerd: *See—*
Montmolin, Rene de; Hoelzle, Gerd; Angliker, Hans-Joerg; and Peter, Richard, 3,642,764.
- Hoelzle, Gerd; and Ulrich, Paul, to Ciba Limited. Quaternary nitrogen compound assisted reactive dyeing. 3,632,294, 1-4-72, Cl. 8-54.2.
- Hoelzle, Gerd, to Ciba Limited. Fiber-reactive phthalocyaninesulfonamidoarylazostilbenylpyrazolone dyestuffs. 3,637,646, 1-25-72, Cl. 260-147.
- Hoernick, Hermann H., to Girling Limited. Hydraulic brakes. 3,704,652, 12-5-72, Cl. 92-5.000.
- Hoernig, Ernest, to Staubli Ltd. Dobbies. 3,665,972, 5-30-72, Cl. 139-68.000.
- Hoernig, James R.: *See—*
Gailus, Walter J.; and Hoernig, James R., 3,690,507.
- Hoenselaer, Wilhelm: *See—*
Burmeister, Karl-Heinz; Hoenselaer, Wilhelm; and Moes, Lothar, 3,642,265.
- Hoepfel, Raymond W. Oil base gel having low viscosity before gelation and method of producing same. 3,705,107, 12-5-72, Cl. 252-316.000.
- Hoer, Cletus A., to United States of America, Navy. Broad-band lumped-element directional coupler. 3,701,057, 10-24-72, Cl. 333-10.000.
- Hoer, Ralph A.: *See—*
Hawley, Robert L.; Frederiksen, Christopher W.; and Hoer, Ralph A., 3,642,490.
- Hoer, Ralph A.; and Calvert, Francis E., to Ralston Purina Company. Method for producing a bay protein product. 3,649,293, 3-14-72, Cl. 99-17.
- Hoer, Ralph A., to Ralston Purina Company. Protein fiber forming. 3,662,672, 5-16-72, Cl. 99-17.
- Hoer, Ralph A.; Frederiksen, Christopher W.; and Hawley, Robert L., to Ralston Purina Company. Enzyme modified protein process. 3,694,221, 9-26-72, Cl. 99-17.000.
- Hoerauf, Werner: *See—*
Nieswandt, Werner; Linge, Hermann; Pirzer, Hans; Hoerauf, Werner; and Hetz, Herbert, 3,639,659.
- Hoerbig, Ventilwerke Aktiengesellschaft: *See—*
Bauer, Friedrich; and Kohler, Robert, 3,703,912.
- Grunwald, Eduard; and Tuymer, Walter J., 3,661,295.
- Hoerner, Alfred J., to Minnesota Mining and Manufacturing Company. Torque transmitting device. 3,687,251, 8-29-72, Cl. 192-46.000.
- Hoerner Waldorf Corporation: *See—*
Jeffers, James E., 3,655,112.
- Hoerner-Waldorf Corporation: *See—*
Dutcher, Daniel P., 3,664,493.
- Dutcher, Daniel P., 3,670,881.
- Dutcher, Daniel P., 3,675,764.
- Hennessey, Russell J.; and McLaren, Edwin C., 3,692,227.
- Isakson, Eugene H., 3,682,369.
- Klitze, Loren J., 3,679,146.
- Locke, Frank W., 3,674,133.
- Rodley, Frederick T., 3,682,372.
- Rohde, John J.; and Robinson, Jack B., 3,682,367.
- Tolaas, William M., 3,685,640.
- Tull, Herbert G., III, 3,701,314.
- Wolf, Donald G., 3,695,505.
- Hoerres, William E.: *See—*
Liggett, James J., 3,684,529.
- Hoerst, Donald J., to General Electric Company. Coanda expansion exhaust nozzle suppressor. 3,648,800, 3-14-72, Cl. 181-33.
- Hoerter, John: *See—*
Weinssen, John; Carrazza, James A.; Hoerter, John; Kaye, Seymour M.; and Weingarten, Garry, 3,645,208.
- Hoesch Aktiengesellschaft: *See—*
Bottcher, Wolfgang; Kopineck, Hermann-Josef; Schlusnus, Karl-Heinz; and Sommerkorn, Gernot, 3,685,348.
- Fabian, Wolfgang; Sevenich, Theodor; and Kuhn, Klaus, 3,648,861.
- Gull, Karl-Heinz; and Marke, Bernt-Dieter, 3,687,483.
- Husten, Werner; and Siemensmeyer, Heinrich, 3,652,141.
- Klinkosch, Reinhard, 3,650,863.
- Nellen, Wilhelm; Sevenich, Theodor; and Wladika, Hans, 3,693,393.
- Sablotny, Adalbert, 3,696,226.
- Hoesch, Eberhard & Sohne: *See—*
Schotten, Alfons; and Heimbach, Franz, 3,655,056.
- Hoesch-Chemie G.m.b.H.: *See—*
Bergmann, Gerhard, 3,650,671.
- Hoeschele, Guenther Kurt, to Du Pont de Nemours, E. I., and Company. Polyurethane elastomers and forms prepared from polyamine curing agents. 3,635,851, 1-18-72, Cl. 260-2.5.
- Hoeschele, Guenther Kurt, to Du Pont de Nemours, E. I., and Company. Process for making 4,4'-methylene bis (2-chloroaniline). 3,636,117, 1-18-72, Cl. 260-570.
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- Hoever, Heinz; and Orth, Herbert, to Berstorff, Hermann, Maschinenbau GmbH. Calendar roll adjustment apparatus. 3,670,644, 6-20-72, Cl. 100-168.000.
- Hof, Jan Sjouke; and Otten, Gerardus, to U.S. Philips Corporation. Apparatus for selectively examining radioactive samples. 3,654,472, 4-4-72, Cl. 250-106.
- Hofele, Adolf, Firma: *See—*
Thierer, Walther, 3,693,580.
- Hofer, Arnold: *See—*
Steffen, Jurg; and Hofer, Arnold, 3,656,988.
- Hofer, Franz; and Schuler, Claus, to Aktiengesellschaft Brown, Boveri & Cie. Method for producing intermetallic compound permanent magnet material. 3,684,499, 8-15-72, Cl. 75-211.000.
- Hofer, Gerald: *See—*
Eckert, Konrad; and Hofer, Gerald, 3,644,064.
- Eckert, Konrad; Eheim, Franz; Hofer, Gerald; and Koster, Claus, 3,699,939.
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Vorreither, Hans-Klaus; Obendorf, Werner; Menzl, Kurt; and Hofer, Harald, 3,642,811.
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Burdet, Evelyne; and Hofer, Kurt, 3,686,246.
- Hofer, Kurt, to Sandoz, Ltd. Phenol sulfide derivatives. 3,707,565, 12-26-72, Cl. 260-608.000.
- Hofer, Lawrence J. E.; Carpenter, David B.; and Thompson, Edward A., to Calgon Corporation, mesne. Separation of hydrocarbons with activated carbon. 3,689,404, 9-5-72, Cl. 208-310.000.
- Hofer, Lawrence John Edward; and Manes, Milton, to Calgon Corporation. Recovery of adsorbate from activated carbon. 3,670,424, 6-20-72, Cl. 34-9.000.
- Hofer, Wolfgang; Schrader, Gerhard; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. O-lower alkyl-O-(2-carbisopropoxyphenyl) phosphoric acid diester amides. 3,660,540, 5-2-72, Cl. 260-941.
- Hoferer, Richard, to Filterwerk Mann & Hummel GmbH. Control device for the air-intake of carburetor-type internal combustion engines. 3,653,366, 4-4-72, Cl. 123-122.
- Hofert, Paul: *See—*
Arzt, Friedrich; and Hofert, Paul, 3,679,850.
- Hoff, Charles Nicholas, to General Binding Corporation (Canada) Limited. Collator. 3,656,739, 4-18-72, Cl. 270-58.
- Hoff, Dale R.: *See—*
Carlson, John A.; Hoff, Dale R.; and Rooney, Clarence S., 3,646,027.
- Fisher, Michael H.; Hoff, Dale R.; and Bochis, Richard J., 3,686,110.
- Fisher, Michael H.; Hoff, Dale R.; and Bochis, Richard J., 3,705,174.
- Henry, David W.; Hoff, Dale R.; and Patchett, Arthur A., 3,632,817.
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- Sarett, Lewis H.; Hoff, Dale R.; and Henry, David W., 3,682,949.
- Hoff, Dale R.; and Henry, David W., to Merck & Co., Inc. 1-[Hydroxyalkyl]-2-morpholinomethyl-5-nitroimidazoles. 3,637,702, 1-25-72, Cl. 260-247.5.
- Hoff, Dale R.; and Fisher, Michael H., to Merck & Co., Inc. Acylaminobenzimidazole derivatives. 3,646,049, 2-29-72, Cl. 260-302.
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McCloskey, Chester M.; Rees, Donald E.; and Hoff, George, 3,649,546.
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- Hoff, George L.: *See—*

- McCloskey, Chester M.; Rees, Donald E.; and Hoff, George L., 3,692,841.
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- Hoff, Jean C., to Kawecky Berylo Industries, Inc. Introducing a grain refining or alloying agent into molten metals and alloys. 3,634,075, 1-11-72, Cl. 75-135.
- Hoffa, Jack L.: *See—*
- Rochte, Jerry E.; Martin, Donald N.; Hoffa, Jack L.; and Moore, George V., 3,645,690.
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- Weaver, Chester H.; and Hoffberger, Charles C., III, 3,663,040.
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- Voight, Richard W.; and Hoffenberg, David S., 3,652,232.
- Hoffer, Donald R.: *See—*
- Nemec, Joseph W.; and Hoffer, Donald R., 3,642,843.
- Hoffer, Max: *See—*
- Gruenman, Vsevolod; and Hoffer, Max, 3,636,039.
- Hoffer, Max; and Mitrovic, Milan, to Hoffmann-La Roche Inc. 1-Methyl-2-isopropyl-5-nitroimidazole and water soluble salts thereof. 3,634,446, 1-11-72, Cl. 260-309.
- Hoffer, Max; and MacDonald, Alexander, Jr., to Hoffmann-La Roche Inc. 1-Methyl-2-substituted 5-nitroimidazoles. 3,652,579, 3-28-72, Cl. 260-309.
- Hoffer, Max, to Hoffmann-La Roche Inc. 5,6-Dihydro-9, 8-dimethyl-3-nitro-8H imidazo (2-1-c) (1,4)oxazine. 3,676,439, 7-11-72, Cl. 260-244.000.
- Hofferer, Richard: *See—*
- Baer, Herbert J.; Hense, Kurt R.; and Hofferer, Richard, 3,680,706.
- Hoffman, Albert H.: *See—*
- Ziegler, Carrel G.; and Hoffman, Albert H., 3,633,704.
- Hoffman, Albert Louis; and Longstaff, Derek Elden, to Motorola, Inc. Diffused alloyed emitter and the like and a method of manufacture thereof. 3,649,882, 3-14-72, Cl. 317-235.
- Hoffman, Alfred A., Jr., to Phillips Petroleum Company. Controlling apparatus of a reactor. 3,645,697, 2-29-72, Cl. 23-253.
- Hoffman, Alfred E., to Universal Oil Products Company. Antiozonant composition and use thereof in natural and synthetic rubber compositions. 3,663,505, 5-16-72, Cl. 260-45.9.
- Hoffman, Arnold, to Polaroid Corporation. Photosensitive layer from the electrolysis of silver and halide ions. 3,695,876, 10-3-72, Cl. 96-29.000.
- Hoffman, Benedict J. Electric teeter totter switch. 3,651,293, 3-21-72, Cl. 200-153.
- Hoffman, Bernard A., to Schramm, Inc. Large diameter earth drill. 3,655,001, 4-11-72, Cl. 175-213.
- Hoffman, Bernard L., to Krause, Frederick A., Associates, Inc. Hydraulic system. 3,678,726, 7-25-72, Cl. 72-351.000.
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- Hoffman, Carroll B. Thin film mill. 3,666,186, 5-30-72, Cl. 241-45.
- Hoffman, Charles F. Wrench. 3,672,245, 6-27-72, Cl. 81-367.000.
- Hoffman, Clarence A.: *See—*
- Emerson, David E.; Weems, George W.; and Hoffman, Clarence A., 3,662,588.
- Pradt, Louis A.; Gitchel, Wayne B.; and Hoffman, Clarence A., 3,654,070.
- Hoffman, Daniel S.: *See—*
- Dolcimascolo, Charles; Hoffman, Daniel S.; Jones, Hugh L.; and Mercik, James E., 3,702,482.
- Hoffman, David M., to Sun Oil Company. Preparation of organic perchlorates. 3,660,455, 5-2-72, Cl. 260-453.
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- Hampe, Walter R.; Simon, Albert B.; Hampton, William H.; and Decker, William E., 3,692,127.
- Hoffman, Donald O., to American Optical Corporation. Method of treating lens polishing pads. 3,698,937, 10-17-72, Cl. 117-113.000.
- Hoffman, Emil De Coudres, to Westinghouse Electric Corporation. Metering system having a remote register. 3,641,537, 2-8-72, Cl. 340-205.
- Hoffman, Eric J., to United States of America, Navy. Variable passive voltage transient generator. 3,657,555, 4-18-72, Cl. 307-108.
- Hoffman, Ernest G.: *See—*
- Voegelin, Howard J.; Hoffman, Ernest G.; and Lapointe, Lloyd J., 3,644,717.
- Hoffman, Ernest G.; and Ryan, William P., to Mite Corporation. Keyboard operated telegraph transmitter using reed switches and magnetic shunts. 3,651,259, 3-21-72, Cl. 178-17.
- Hoffman, Ernest G., to Veeder Industries Inc. Wheel indexing mechanism. 3,680,402, 8-1-72, Cl. 74-125.000.
- Hoffman, Frank P. Combined drainage stop-valve conical strainer device. 3,665,526, 5-30-72, Cl. 4-287.
- Hoffman, George A.: *See—*
- Hill, Roger Gettys; and Hoffman, George A., 3,685,375.
- Hoffman, George A., to Gettys Manufacturing Company, Incorporated. Machine tool velocity control system. 3,707,662, 12-26-72, Cl. 318-578.000.
- Hoffman, George M., to White Motor Corporation. Control system for starting up and synchronizing a plurality of generators and method of operation. 3,646,356, 2-29-72, Cl. 307-87.
- Hoffman, George W., to N L Industries, Inc. Production of polysilicic acid by ion exchange. 3,649,556, 3-14-72, Cl. 252-313.
- Hoffman, Harold Henry, to Bell Telephone Laboratories, Incorporated. Signal threshold crossing counter employing monostable multivibrator to suppress extraneous crossing indications. 3,678,396, 7-18-72, Cl. 325-474.000.
- Hoffman, Harold L.: *See—*
- Burnette, Robert W.; Hoffman, Harold L.; and Lukes, Richard V., 3,638,933.
- Hoffman, Harry S., Jr.: *See—*
- Cielo, John R.; and Hoffman, Harry S., Jr., 3,694,726.
- Hoffman, Harry S., Jr., to International Business Machines Corporation. Adjustable ferroresonant transformer. 3,649,940, 3-14-72, Cl. 336-132.
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- Hoffman, Helen B.: *See—*
- Stehlin, Theodore A., 3,684,240.
- Stehlin, Theodore A., 3,686,092.
- Hoffman, Hellmut; Hammann, Ingeborg; and Behrenz, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Thiazolo-(thiono) phosphoric (phosphonic) acid esters. 3,687,963, 8-29-72, Cl. 260-300.000.
- Hoffman, Herbert J., to United States of America, Air Force. Mixture ratio control. 3,633,434, 1-11-72, Cl. 74-470.
- Hoffman, Herbert N., to General Electric Company. Gear type flexible coupling. 3,651,662, 3-28-72, Cl. 64-9.
- Hoffman, Herbert N., to General Electric Company. Integrated journal and thrust bearing. 3,702,719, 11-14-72, Cl. 308-160.000.
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- Burt, Warren T.; and Hoffman, Herman J., 3,668,308.
- Hoffman, Herwig; Jescher, Gerhard; Kuerzinger, Alfred; Schmidt, Erwin; Schoenleben, Willibald; Voges, Dieter; and Winderl, Siegfried. Production of 6-alkoxy-5,6-ethoxy-4H-pyrans. 3,691,205, 9-12-72, Cl. 260-345.900.
- Hoffman, J. Gordon. Self-locating electrical connector for large planar surfaces. 3,649,953, 3-14-72, Cl. 339-64.
- Hoffman, Jacob Sherman: *See—*
- Sturgess, Geoffrey John; Hoffman, Jacob Sherman; Vdovjak, John William; and Hirschkrone, Robert, 3,703,259.
- Hoffman, James P.: *See—*
- Mills, Ivor W.; Dimeler, Glenn R.; Atkinson, William A., Jr.; and Hoffman, James P., 3,654,127.
- Hoffman, Jay; and Hohenstein, Robert M., to Singer Company, The, mesne. Three-axis accelerometer. 3,680,392, 8-1-72, Cl. 73-516.000.
- Hoffman, John A. Electrically converted fire tube boiler and method. 3,691,344, 9-12-72, Cl. 219-321.000.
- Hoffman, John P.; and Booth, Robert C., to Bethlehem Steel Corporation. One-probe method and apparatus for detecting correlating, and classifying defects in test members. 3,673,493, 6-27-72, Cl. 324-37.000.
- Hoffman, John T. Dispenser for reel of filament material. 3,696,697, 10-10-72, Cl. 83-649.000.
- Hoffman, Joseph Adrian: *See—*
- Murray, Robert William; and Hoffman, Joseph Adrian, 3,636,023.
- Song, John; Hoffman, Joseph Adrian; and Susi, Peter Vincent, 3,649,667.
- Hoffman, Joseph K.; and Russell, James P., to Air Products and Chemicals, Inc., mesne. Preparation of telomers of vinyl esters. 3,642,876, 2-15-72, Cl. 260-491.
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- Hoffman, Joseph Willard; and Demler, Henry William, Sr., to AMP Incorporated. Crimping tool and die assembly. 3,706,219, 12-19-72, Cl. 72-402.000.
- Hoffman, Lawrence C., to Aerojet-General Corporation. Closed cycle power system. 3,658,043, 4-25-72, Cl. 123-119.
- Hoffman, Lawrence C.; Rudnicki, Mark I.; and Williams, Howard W., to Aerojet-General Corporation. Closed cycle engine system. 3,702,110, 11-7-72, Cl. 123-119.00a.
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- Hoffman, Lewis C.; and Nakayama, Takashi, to Du Pont de Nemours, E. I., and Company. High dielectric constant ceramic bodies and compositions for producing same comprising iron oxide. 3,666,505, 5-30-72, Cl. 106-39.

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- Spruyt, Harry; and Hoffman, Louis, 3,687,328.
- Hoffman, Louis S.; and Spruyt, Harry, to Beech-Nut, Inc. Support structure. 3,696,940, 10-10-72, Cl. 211-126.000.
- Hoffman Manufacturing Company: *See—*
- Jones, Robert, 3,704,815.
- Hoffman, Mark; and Lindquist, Claude Alan, Jr., to Pfizer Inc. Light diffusion device. 3,655,263, 4-11-72, Cl. 350-126.
- Hoffman, Mary V., to General Electric Company. Uranyl-activated strontium zinc pyrophosphate phosphors. 3,666,674, 5-30-72, Cl. 252-301.1.
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- Hoffman, Otto L., to Gulf Research & Development Company. Herbicide resistant corn seed method. 3,702,759, 11-14-72, Cl. 71-77.000.
- Hoffman, Paul; and Hodge, John D., Jr. Fisherman's soap. 3,650,968, 3-21-72, Cl. 252-142.000.
- Hoffman, Paul. Laminated paper with reinforcing scrim. 3,671,372, 6-20-72, Cl. 161-58.000.
- Hoffman, Paul. High voltage capacitor. 3,689,811, 9-5-72, Cl. 317-259.000.
- Hoffman, Paul; and Craig, Herbert W., to Hudson Pulp & Paper Corporation. Remoistening adhesive compositions. 3,696,065, 10-3-72, Cl. 260-17.4st.
- Hoffman, Paul R., to Brunswick Corporation. Split detecting and scoring system. 3,649,014, 3-14-72, Cl. 273-54.
- Hoffman, Paul R., to Burroughs Corporation. Tape control mechanism. 3,662,970, 5-16-72, Cl. 242-180.
- Hoffman, Robert C.: *See—*
- Di Stefano, Edmund J.; Enderley, Arthur E.; and Hoffman, Robert C., 3,654,589.
- Hoffman, Robert E., to General Motors Corporation. Washer load sensor control. 3,648,487, 3-14-72, Cl. 68-12.
- Hoffman, Robert N.; and Kern, Loyd R., to Atlantic Richfield Company. Drilling method and bit. 3,698,491, 10-17-72, Cl. 175-329.000.
- Hoffman, Robert R., to Abcor Water Management Company, Inc., mesne. Membrane system which includes a tube sheet for securing supported membrane tubes therein. 3,643,805, 2-22-72, Cl. 210-321.
- Hoffman, Sanford G.; Jackson, Earl V.; Starkweather, Gary K.; and Zucker, Edwin, to Xerox Corporation. Multiple exposure imaging apparatus. 3,703,335, 11-21-72, Cl. 355-51.000.
- Hoffman, Stephen J.; and Schonegg, Louis E., to Regency Electronics, Inc. Radio receiver. 3,665,318, 5-23-72, Cl. 325-470.
- Hoffman, Vincent L.: *See—*
- Siddall, Don F.; and Hoffman, Vincent L., 3,661,120.
- Hoffman, William D.; and Larson, Allen E., to Atlantic Richfield Company. Foundry mold process and pattern composition. 3,655,414, 4-11-72, Cl. 106-38.8.
- Hoffman, William K.; and Sumilas, John W., to International Business Machines Corporation. Modified storage circuit for shift register. 3,648,063, 3-7-72, Cl. 307-221.
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- Hoffman, William K., to International Business Machines Corporation. Field effect transistor circuit. 3,663,835, 5-16-72, Cl. 307-246.000.
- Hoffman-La Roche Inc.: *See—*
- Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, 3,641,047.
- Chodnekar, Madhukar Subraya; Thommen, Hans; and Schwieter, Ulrich, 3,705,177.
- De Ritter, Elmer; and Raymond, Joseph Edward, 3,676,556.
- Furst, Andor; Muller, Peter; Muller, Marcel; and Kagi, Dieter, 3,676,467.
- Marbet, Roman, 3,665,020.
- Schwieter, Ulrich; Thommen, Hans; and Weiser, Harald, 3,681,082.
- Hoffmann, Alfred; and Klein, Heinrich, to Siemens Aktiengesellschaft. Tornado-flow apparatus for separating particulate substance from gases, particularly adhesive liquids from gases. 3,641,743, 2-15-72, Cl. 55-236.
- Hoffmann, Anton R., to Gerrard, A. J., & Company. Feeding device for strapping machine. 3,672,596, 6-27-72, Cl. 242-75.430.
- Hoffmann, Arthur Kentaro: *See—*
- Weinberg, Norman Louis; and Hoffmann, Arthur Kentaro, 3,632,489.
- Hoffmann, Arthur W.; Locuty, Pierre; and Buhlmann, Walter, to Gebr. Hoffmann AG. Method of fabricating fluid-tight containers. 3,660,194, 5-2-72, Cl. 156-191.
- Hoffmann, Bernd; Bollig, Georg; and Dopfer, Otto, to Schloemann Aktiengesellschaft. Production of patented steel wire. 3,645,805, 2-29-72, Cl. 148-156.
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- Hoffmann, Conrad E., to Du Pont de Nemours, E. I., and Company. Derivatives of 2-camphanamines as anti-influenza agents. 3,659,015, 4-25-72, Cl. 424-325.
- Hoffmann, Daniel: *See—*
- Mazuir, Rene A.; and Hoffmann, Daniel, 3,686,744.
- Hoffmann, Daniel E.: *See—*
- Mazuir, Rene A.; and Hoffmann, Daniel E., 3,707,170.
- Hoffmann, Donald R., to Ford Motor Company. Rod end connector. 3,679,249, 7-25-72, Cl. 287-93.000.
- Hoffmann, Donald R.; and White, Charles E., to Ford Motor Company. Latch assembly. 3,691,799, 9-19-72, Cl. 79-84.000.
- Hoffmann, Erich: *See—*
- Beulker, Franz; and Hoffmann, Erich, 3,651,652.
- Hoffmann, Ernst; to Schmidt, Kranz, & Co., GmbH. Compression pipe coupling. 3,679,241, 7-25-72, Cl. 285-340.000.
- Hoffmann, Gotfred O., to Tri-Tech, Inc., mesne. Stepper motor with stator biasing magnets. 3,671,841, 6-20-72, Cl. 318-696.000.
- Hoffmann, Gunther; and Zabel, Bernd, to Goltermann, Wandel U. Pulse-frequency tester. 3,696,293, 10-3-72, Cl. 324-78.00q.
- Hoffmann, Hans: *See—*
- Leontaritis, Lambis; Schon, Nikolaus; Hoffmann, Hans; and Sayed, Aziz El, 3,696,498.
- Leontaritis, Lambis; Schon, Nikolaus; and Hoffmann, Hans, 3,706,124.
- Poddig, Dieter; and Hoffmann, Hans, 3,652,989.
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- Hoffmann, Heinrich, to Daimler-Benz Aktiengesellschaft. Piston. 3,656,770, 4-18-72, Cl. 277-189.5.
- Hoffmann, Hellmut: *See—*
- Schlor, Hanshelmut; Hoffmann, Hellmut; Regel, Erik; and Scheinplig, Hans, 3,705,930.
- Hoffmann, Hellmut; and Scheinplig, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Bromoalkyl-(D1)-thiophosphoric acid esters. 3,641,224, 2-8-72, Cl. 260-964.
- Hoffmann, Hellmut; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. Alkyl esters of thiazolotriazolyl phosphoric and phosphonic acids and amides, and thiono counterparts. 3,682,943, 8-8-72, Cl. 260-306.700.
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- Hoffmann, Helmut: *See—*
- Hahn, Wilhelm; and Hoffmann, Helmut, 3,635,026.
- Hoffmann, Herwig: *See—*
- Decker, Martin; Schmidt, Joseph; Hoffmann, Herwig; and Pistor, Hans Joachim, 3,671,566.
- Fuerst, Ernst; Adam, Karl; Hoffmann, Herwig; Pilch, Kurt; Winderl, Siegfried; and Sanne, Walter, 3,649,627.
- Hoffmann, Herwig; Lissner, Oskar; Merkel, Karl; and Scholz, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for preparing moldings from polyepoxides and polyamines. 3,658,728, 4-25-72, Cl. 260-2.
- Hoffmann, Horst: *See—*
- Krauch, Carl Heinrich; and Hoffmann, Horst, 3,682,808.
- Hoffmann, Horst; Krauch, Carl Heinrich; Otto, Hans-Werner; and Volkert, Otto, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Reflective metal plate with photopolymerizable layer containing metal complex dye. 3,674,494, 7-4-72, Cl. 96-86.00p.
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- Hoffmann, James E.; and Ernst, Runyon G., to American Metal Climax, Inc. Recovery of silver from electrolytic copper refinery slimes. 3,658,510, 4-25-72, Cl. 75-99.
- Hoffmann, Jorg H.: *See—*
- Miller, Ralph; and Hoffmann, Jorg H., 3,681,416.
- Hoffmann, Karl-Heinz: *See—*

Hundhausen, Eckhard; and Hoffmann, Karl-Heinz, 3,684,321.
Hoffmann, Kurt, to Fairchild Camera and Instrument Corporation. Logic network with a low power shift register. 3,636,376, 1-18-72, Cl. 307-221.
Hoffmann, Louis Adolph. Apparatus for injecting treatment fluids into meats and the like. 3,695,166, 10-3-72, Cl. 99-257,000.
Hoffmann, Manfred: *See—*
Jacobi, Hans-Rudolf; Hauser, Abel; and Hoffmann, Manfred, 3,642,974.
Hoffmann, Manfred; and Schulze, Peter, to Siemens Aktiengesellschaft. Circuit for rapid excitation and de-excitation of an electromagnetic switch. 3,702,425, 11-7-72, Cl. 317-151,000.
Hoffmann, Martin: *See—*
Marwede, Gunter; Pampus, Gottfried; and Hoffmann, Martin, 3,646,161.
Hoffmann, Norbert H., 1/4 to Beni, Albert J., 1/4 to Bourdo, Charles A. and 1/4 to Galbraith, W. Keith. Analog to digital converter for positional coordinates. 3,646,547, 2-29-72, Cl. 340-347.
Hoffmann, Otto: *See—*
Krynitzky, Alexander; Schott, Arthur K.; and Hoffmann, Otto, 3,656,392.
Hoffmann, Peter: *See—*
Arlt, Dieter; Hagemann, Hermann; Hoffmann, Peter; and Ugi, Ivar, 3,661,965.
Marquarding, Dieter; Ugi, Ivar V.; Kleimann, Helmut; and Hoffmann, Peter, 3,647,775.
Hoffmann, Richard. Electric heat sealing machine. 3,684,620, 8-15-72, Cl. 156-380,000.
Hoffmann, Viktoria. Heating container. 3,683,889, 8-15-72, Cl. 126-263,000.
Hoffmann, Walter: *See—*
Hoffmann, Helmut; and Hoffmann, Walter, 3,655,012.
Hoffmann, Wilhelm: *See—*
Krone, Heinz; and Hoffmann, Wilhelm, 3,696,992.
Hoffmann-La Roche Inc.: *See—*
Albrecht, Harry Allen; and Plati, John Thomas, 3,706,761.
Archer, Giles Allan; and Sternbach, Leo Henryk, 3,646,011.
Archer, Giles Allan; and Sternbach, Leo Henryk, 3,678,036.
Bartholini, Giuseppe, 3,646,213.
Bartholini, Giuseppe, 3,701,829.
Beaman, Alden Gamaliel; and Tautz, William Paul, 3,646,057.
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, 3,679,698.
Beaman, Alden Gamaliel; and Miller, O. Neal, 3,682,932.
Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, 3,700,698.
Becher, Elisabeth; Els, Hans; and Schocher, Arno Johannes, 3,634,461.
Berger, Julius; Marusich, Wilbur Lewis; and Mitrovic, Milan, 3,652,763.
Berger, Julius; and Rosenberger, Michael, 3,657,070.
Berger, Julius, 3,657,421.
Berger, Julius; and Marusich, Wilbur Lewis, 3,662,063.
Berger, Julius; Epps, Richard H.; Jenkins, Edward M.; and Tabenkin, Benjamin, 3,663,373.
Berger, Leo; and Corraz, Alfred John, 3,646,045.
Berger, Leo; and Corraz, Alfred John, 3,654,290.
Berger, Leo; Grunberg, Emanuel; Stempel, Arthur; and Sternbach, Leo Henryk, 3,657,436.
Bohni, Erika; Ruegg, Rudolf; and Ryser, Gottlieb, 3,705,249.
Bollag, Werner; Ramuz, Henri; and Spiegelberg, Hans, 3,634,506.
Bretschneider, Hermann; Grassmayr, Klaus; Hohenlohe-Oehringen, Kraft; and Grussner, Andre, 3,654,357.
Bretschneider, Hermann; Klotzer, Wilhelm; and Franzmair, Rudolf, 3,665,012.
Bretschneider, Hermann; Kraft, Innsbruck; Grussner, Andre; and Zur Nedden, Klaus, 3,707,558.
Brossi, Arnold; Focella, Antonino; Rachlin, Albert Israel; and Teitel, Sidney, 3,636,080.
Brossi, Arnold; and Pecherer, Benjamin, 3,654,343.
Brossi, Arnold; and Teitel, Sidney, 3,684,810.
Brust, Bernard; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,637,675.
Buckert, Herbert Alfred; and Lorch, Eckehard, 3,660,559.
Cekoric, Thomas, Jr.; Evans, George; and Searcy, Ronald, 3,668,075.
Cekoric, Thomas, Jr.; Evans, George; and Searcy, Ronald, 3,671,399.
Cekoric, Thomas, Jr.; and Evans, George, 3,671,400.
Chodnek, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; Schwieter, Ulrich; and Suchy, Milos, 3,686,222.
Chodnek, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; and Schwieter, Ulrich, 3,705,187.
Cosentino, Louis Ciro, 3,662,745.
Den Hollander, Charles William; Leimgruber, Willy; and Mohacsi, Ernest, 3,682,925.
Derieg, Michael Edward; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,651,046.
Earley, James Valentine; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,644,335.

Earley, James Valentine; Fryer, Rodney Ian; Ye-Fong Ning, Robert; and Sternbach, Henryk, 3,681,341.
Edenhofer, Albrecht; and Spiegelberg, Hans, 3,674,799.
Edenhofer, Albrecht; and Spiegelberg, Hans, 3,701,777.
Edenhofer, Albrecht; and Spiegelberg, Hans, 3,705,168.
Edenhofer, Albrecht; Ramuz, Henri; and Spiegelberg, Hans, 3,706,755.
Eder, Ulrich; Berndt, Hans-Detlef; Kerb, Ulrich; Wiechert, Rudolf; Zollner, Georg; Buchschacher, Paul; Furlenmeier, Andre; Furst, Andor; and Muller, Marcel, 3,661,897.
Fahrenholtz, Kenneth Earl, 3,636,058.
Field, George Francis; and Sternbach, Leo Henryk, 3,651,047.
Field, George Francis; Sternbach, Leo Henryk; and Zally, William Joseph, 3,678,038.
Field, George Francis; Sternbach, Leo H.; and Zally, William Joseph, 3,687,967.
Field, George Francis; and Sternbach, Leo Henryk, 3,697,545.
Freedman, Samuel Orkin; Gold, Phil; and Krupay, John Henry, 3,663,684.
Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,706,734.
Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,707,473.
Fryer, Rodney Ian; and Grunberg, Emanuel, 3,681,360.
Furst, Andor; Muller, Marcel; and Muller, Peter, 3,642,839.
Furst, Andor; Kagi, Dieter; Muller, Marcel; and Muller, Peter, 3,644,438.
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,651,100.
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,655,650.
Furst, Andor; Muller, Marcel; Muller, Peter; Schocher, Arno Johannes; and Bacher, Elisabeth, 3,700,702.
Gasche, Urs; Lindlar, Herbert; Rutishauser, Max; and Steiner, Riedholz Kurt, 3,700,501.
Gerecke, Max; and Zimmermann, Jean Pierre, 3,700,659.
Gloor, Urs; Ruegg, Rudolf; and Ulrich, Schwieter, 3,670,031.
Grethe, Guenter; and Uskokovic, Milan Radoje, 3,666,763.
Gruenman, Vsevolod; and Hoffer, Max, 3,636,039.
Guevrekian, Lawrence Norayr, 3,636,941.
Guigan, Jean, 3,633,768.
Guigan, Jean, 3,677,091.
Gutmann, Hugo; Marbet, Roman; and Schwieter, Ulrich, 3,687,990.
Gutzwiller, Juerg Albert Walter; and Uskokovic, Milan Radoje, 3,663,554.
Hajos, Zoltan George; and Oliveto, Eugene Paul, 3,644,429.
Hajos, Zoltan George, 3,692,803.
Halbartschlag, Ingomar; and Heim, Alfred, 3,700,089.
Hansen, Hans John, 3,697,638.
Hegedus, Balthasar; and Zeller, Paul, 3,637,804.
Hegedus, Balthasar; and Zeller, Paul, 3,641,097.
Hegedus, Balthasar, 3,647,815.
Hellerbach, Joseph, 3,654,288.
Hellerbach, Joseph; Szente, Andre; and Walser, Armin, 3,657,223.
Hellerbach, Joseph; Szente, Andre; and Walser, Armin, 3,671,518.
Hoffer, Max; and Mitrovic, Milan, 3,634,446.
Hoffer, Max; and MacDonald, Alexander, Jr., 3,652,579.
Hoffer, Max, 3,676,439.
Jaffe, Gerald Myer; and Rehl, William Richard, 3,660,463.
Kierstead, Richard Wightman; and Lemahieu, Ronald Andrew, 3,635,954.
Kierstead, Richard Wightman, 3,646,065.
Kierstead, Richard Wightman; and Rosen, Perry, 3,655,653.
Kierstead, Richard Wightman; and Rosen, Perry, 3,657,227.
Kierstead, Richard Wightman, 3,707,537.
Kiss, Joseph, 3,699,103.
Klaui, Heinrich; and Schlegel, Wolfgang, 3,637,772.
Klaui, Heinrich, 3,655,406.
Klein, Bernard, 3,653,841.
Klein, Bernard, 3,667,915.
Koff, Arnold; and Magid, Louis, 3,655,852.
Kyburz, Emilio; and Spiegelberg, Hans, 3,632,857.
Kyburz, Emilio; and Spiegelberg, Hans, 3,637,854.
Kyburz, Emilio; and Spiegelberg, Hans, 3,641,153.
Laucournet, Robert; and Turpin, Pierre, 3,679,315.
Leimgruber, Willy; and Mohacsi, Ernest, 3,634,429.
Leimgruber, Willy; and Schenker, Fausto Eugenio, 3,661,913.
Leimgruber, Willy; and Weigele, Manfred, 3,678,051.
Leimgruber, Willy; and Weigele, Manfred, 3,681,331.
Leimgruber, Willy; and Weigele, Manfred, 3,689,498.
Leimgruber, Willy; and Weigele, Manfred, 3,700,679.
Lerner, Irwin; and McGrath, Robert Paul, 3,700,774.
Liemgruber, Willy; and Weigele, Manfred, 3,655,716.
Magid, Louis, 3,646,192.
Malatestinic, Nicholas; and Ziering, Albert, 3,679,666.
Manz, Ulrich; and Schwieter, Ulrich, 3,659,024.
Marbet, Roman, 3,632,860.
Metlesics, Werner; and Sternbach, Leo Henryk, 3,644,336.

Metlesics, Werner; and Sternbach, Leo Henryk, 3,644,419.
Metlesics, Werner; and Wehrli, Pius Anton, 3,651,113.
Micheli, Robert Angelo, 3,646,119.
Mount, Bruce Elson; and Massie, Harold Lee, 3,663,932.
Neugroschel, Eric; and Paterson, Alexander Scott, 3,703,337.
Newmark, Harold Leon, 3,703,580.
Ning, Robert Ye-Fong; and Sternbach, Leo Henryk, 3,635,948.
Ning, Robert Ye-Fong; and Sternbach, Leo Henryk, 3,644,334.
Ning, Robert Ye-Fong; and Sternbach, Leo Henryk, 3,686,308.
O'Brien, Jay Philip; and Rachlin, Albert Israel, 3,686,331.
Osbond, John Mervyn; and Philpott, Peter George, 3,655,684.
Osbond, John Mervyn; and Wickens, James Charles, 3,663,591.
Pawson, Beverly Ann; and Saucy, Gabriel, 3,641,156.
Pfiffner, Albert; and Schwieter, Ulrich, 3,697,543.
Rheiner, Alfred, Jr.; Fernex, Michel; and Herrero, Jose, 3,674,872.
Richterich, Roland, 3,676,080.
Rosenberger, Michael; and Saucy, Gabriel, 3,644,407.
Rosenberger, Michael, 3,654,326.
Ruegg, Rudolf; and Schwieter, Ulrich, 3,665,039.
Ruegg, Rudolf; and Schmialek, Peter, 3,665,040.
Ruegg, Rudolf, 3,692,797.
Saucy, Gabriel, 3,671,539.
Saucy, Gabriel, 3,691,189.
Saucy, Gabriel; and Scott, John William, 3,700,661.
Saucy, Gabriel, 3,703,527.
Schaeren, Sidney Frank, 3,669,984.
Sheth, Prabhakar Ranchordas; and Katz, Gilbert, 3,632,778.
Stempel, Arthur; and Sternbach, Leo Henryk, 3,657,344.
Surmatis, Joseph Donald, 3,651,145.
Surmatis, Joseph Donald; and Walser, Armin, 3,661,997.
Surmatis, Joseph Donald, 3,694,491.
Turpin, Pierre, 3,645,142.
Udenfriend, Sidney, 3,689,221.
Uskokovic, Milan Radoje, 3,646,068.
Uskokovic, Milan Radoje, 3,666,775.
Uskokovic, Milan Radoje, 3,673,217.
Uskokovic, Milan Radoje, 3,704,324.
Weinstock, Marcel, 3,671,575.
Ye-Fong Ning, Robert; and Sternbach, Leo Henryk, 3,682,892.
Zentner, Margaret Rose, 3,636,200.
Hoffmaster, George R.; and Prins, Jack M., to ESB Incorporated. Adjustable temples for spectacles. 3,649,107, 3-14-72, Cl. 351-118.
Hoffmeister, Dietrich; and Schleich, Fritz, to Zeiss-Stiftung, Carl; d/b/a Carl Zeiss. Method of marking a transparent material. 3,657,085, 4-18-72, Cl. 204-157,10r.
Hoffmeister, Erich, to Kaltenbach & Voigt. Dental drive. 3,631,742, 1-4-72, Cl. 74-798.
Hoffmeister, Erich, to Kaltenbach & Voigt. Dental angle handpiece head. 3,637,050, 1-25-72, Cl. 184-6.
Hoffmeyer, William R., to General Electric Company. Stator slot and winding arrangements. 3,633,056, 1-4-72, Cl. 310-180.
Hoffmeyer, William R.; and Rediger, Alvin L., to General Electric Company. Method of manufacturing magnetic laminations for dynamoelectric machine. 3,650,167, 3-21-72, Cl. 83-41.
Hoffel Instruments Incorporated: *See—*
Uphoff, Russel L., 3,673,325.
Hoffsis, Earl W.: *See—*
Carter, Rex D.; and Hoffsis, Earl W., 3,651,949.
Hoffsommer, Walter A.; and Hodgins, Howard A., to Enterprise Machine and Development Corporation. Button feeding and positioning device for sewing machines. 3,633,524, 1-11-72, Cl. 112-113.
Hoffstadt, Walter F., to GAF Corporation. Process for producing polymethine dyes. 3,646,017, 2-29-72, Cl. 260-240.1.
Hofft, Miller, Inc.: *See—*
Brooks, Stanley H. W.; and Raddin, Harry A., 3,668,286.
Hofgesang, Edwin M., to Continental Oil Company. Defoaming compositions and methods of producing same. 3,671,460, 6-20-72, Cl. 252-358,000.
Hofheim, Taunus: *See—*
Radschait, Kurt; Kelkheim, Taunus; Stache, Ulrich; Haede, Werner; Hofheim, Taunus; Fritsch, Werner; Neuenhain, Taunus; and Lindner, Ernst, 3,681,344.
Radschait, Kurt; Kelkheim, Taunus; Fritsch, Werner; Neuenhain, Taunus; Haede, Werner; Stache, Ulrich; Hofheim, Taunus; and Lindner, Ernst, 3,682,891.
Hofing, Frederick H., to Westinghouse Electric Corporation. Electrical inductive apparatus. 3,702,451, 11-7-72, Cl. 336-70,000.
Hofken, Wilfried; and Eckstein, Walter, to L'Orange GmbH. Fuel injection device. 3,635,403, 1-18-72, Cl. 239-90.
Hofliger & Karg: *See—*
Andra, Rolf, 3,672,113.
Hofling, Erich; and Breu, Hanspeter, to Swiss Aluminum Ltd. Method of making lacquer coatings by means of electro-phoretic deposition. 3,647,658, 3-7-72, Cl. 204-181.
Hofling, Rudolf: *See—*
Ernst, Alfons; and Hofling, Rudolf, 3,675,331.
Hofman, Emiel Alexander, to Gevaert-Agfa N.V. Method of producing photographic images by rapid processing. 3,637,389, 1-25-72, Cl. 96-66.
Hofman, Emiel Alexander; Ghys, Theofil Hubert; and Depoorter, Henri, to Gevaert-Agfa N.V. Method of producing photographic images by rapid processing. 3,647,460, 3-7-72, Cl. 96-66.
Hofman, Emiel Alexander; and Vandeputte, Camille Angelina. Silver complex diffusion transfer process. 3,684,508, 8-15-72, Cl. 96-29,000.
Hofman, Johannes H. A.: *See—*
Garritsen, Johan W.; and Hofman, Johannes H. A., 3,652,552.
Hofman, Milos: *See—*
Weigl, Bedrich; Janku, Milos; Prikryl, Milos; Hubeny, Jaroslav; and Hofman, Milos, 3,643,301.
Hofman, Petrus Simon: *See—*
Van Der Stelt, Cornelis; and Hofman, Petrus Simon, 3,635,989.
Hofmann, Albert: *See—*
Acker, Josef; Hofmann, Albert; and Fruhholtz, Georg, 3,696,845.
Petrzika, Theodor; Hofmann, Albert; Schenk, Hansruedi; Troxler, Franz; Frey, Albert; and Ott, Hans, 3,647,801.
Stadler, Paul; Hauth, Hartmut; Wersin, Gernot; Guttmann, Stephan; Hofmann, Albert; Stutz, Peter; and Willems, Hans, 3,652,569.
Hofmann, Alfred: *See—*
Mueller-Tamm, Heinz; and Hofmann, Alfred, 3,655,504.
Mueller-Tamm, Heinz; and Hofmann, Alfred, 3,663,334.
Hofmann, Christian; and Neumann, Jorg, to Jenoptik Jena G.m.b.H. Optical systems having Fresnel surfaces for imaging near-axis points without meridional coma. 3,653,751, 4-4-72, Cl. 350-211.
Hofmann, Christian; and Neumann, Jorg, to Jenoptik Jena G.m.b.H. Fresnel optical systems having echelons on at least one of its faces. 3,679,294, 7-25-72, Cl. 350-211,000.
Hofmann, Detlef. Control transmission. 3,667,303, 6-6-72, Cl. 74-190.
Hofmann, Dionys; and Ende, Dietrich, to Hofmann, Dionys, Maschinenfabrik. Means for the correction of unbalance in an automobile wheel. 3,688,380, 9-5-72, Cl. 29-243,560.
Hofmann, Dionys, Maschinenfabrik: *See—*
Hofmann, Dionys; and Ende, Dietrich, 3,688,380.
Hofmann, Eberhard: *See—*
Holtzschmidt, Ulrich; and Hofmann, Eberhard, 3,637,828.
Hofmann, Eberhard; and Holtzschmidt, Ulrich, to Goldschmidt, Th., A.-G. N-Substituted diaminopyridines. 3,647,808, 3-7-72, Cl. 260-296.
Hofmann, Eberhard, to Bosch, Robert, G.m.b.H. Roller tappet guard. 3,668,945, 6-13-72, Cl. 74-569,000.
Hofmann, Eberhard; and Holtzschmidt, Ulrich. Biocidal preparation. 3,686,405, 8-22-72, Cl. 424-263,000.
Hofmann, Erich; Krull, Ernst; Johannsen, Werner Hans; Oberheim, Robert; and Scheibel, Josef, to Braun Aktiengesellschaft. Slide projector and viewer. 3,669,534, 6-13-72, Cl. 353-21,000.
Hofmann, Friedrich: *See—*
Lienau, Rainer; and Hofmann, Friedrich, 3,658,483.
Hofmann, Fritz, to Messerschmitt-Bolkow Gesellschaft mit beschränkter Haftung. Method and apparatus for converting multiple commands into command units for transmission. 3,670,248, 6-13-72, Cl. 325-141,000.
Hofmann, Gottfried, to United States Steel Corporation. Construction for connecting and aligning sections of a guide-roll rack. 3,633,655, 1-11-72, Cl. 164-282.
Hofmann, Gottfried; and Stull, James T., to United States Steel Corporation. Trap door to prevent water from descending into starter bar pit. 3,670,804, 6-20-72, Cl. 164-274,000.
Hofmann, Gottfried; and Stull, James T., to United States Steel Corporation. Guide-roll rack and supporting structure therefor. 3,672,438, 6-27-72, Cl. 164-282,000.
Hofmann, Gunter A.G.: *See—*
Lund, Roger E.; and Hofmann, Gunter A.G., 3,641,384.
Lutz, Michael A.; and Hofmann, Gunter A.G., 3,678,289.
Hofmann, Hansdieter: *See—*
Hardung-Hardung, Heimo; Corsepis, Horst; and Hofmann, Hansdieter, 3,706,647.
Hofmann, Heinrich: *See—*
Singelmann, Dietrich E.; and Hofmann, Heinrich, 3,688,732.
Hofmann, Heinrich, to Messerschmitt-Bolkow Gesellschaft mit beschränkter Haftung. Gas generator and tubular solid charge construction therefore. 3,687,080, 8-29-72, Cl. 102-101,000.
Hofmann, Horst; and Katz, Helmut, to Siemens Aktiengesellschaft. Dispenser cathode structure. 3,676,731, 7-11-72, Cl. 313-346,0dc.
Hofmann, Horst; Huebner, Erwin; and Katz, Helmut, to Siemens Aktiengesellschaft. Indirectly heated dispenser cathode. 3,681,644, 8-1-72, Cl. 313-346,0dc.
Hofmann, Juergen: *See—*
Bronstert, Klaus; Buchholz, Karl; Echte, Adolf; and Hofmann, Juergen, 3,658,946.
Hofmann, Kurt, to Hartmann & Braun Aktiengesellschaft. Device for metering a particular quantity of fluid. 3,690,146, 9-12-72, Cl. 73-23,100.

- Hofmann, Otto, to Heidenhain, Johannes, Dr. Method of and apparatus for the automatic scanning of parts of stereograms by optical comparison of the images. 3,650,626, 3-21-72, Cl. 356-2.
Hofmann, Richard E.: See—
Hofmann, Robert G.; and Hofmann, Richard E., 3,635,738.
Hofmann, Robert G.; and Hofmann, Richard E. Packaged meat product and procedure for making it. 3,635,738, 1-18-72, Cl. 99-169.
Hofmann, Rudolf: See—
Vukosovic, Lovro; and Hofmann, Rudolf, 3,643,405.
Hofmann, Ulrich: See—
Wiederhut, Wolfgang; Landenberger, Helmut; and Hofmann, Ulrich, 3,677,035.
Hofmann, Wilfried; and Pfeife Josef, to Agfa-Gevaert Aktiengesellschaft. Microfilm flow type apparatus. 3,689,151, 9-5-72, Cl. 355-64,000.
Hofmann-Igl, Ernest, to Wernld, Wilhelm, Buromobelfabrik. Desk. 3,658,397, 4-25-72, Cl. 312-194.
Hofmeijer, Jan: See—
Griffioen, Albert; Hofmeijer, Jan; Van Milligen, Paul Cornelis; Tonissen, Jörn Yding; and Van Zanten, Jacobus Martinus, 3,665,718.
Hofmeister, Heinz-Karl, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Method of preparing ammonium amido-sulfonate. 3,661,516, 5-9-72, Cl. 23-114.
Hofmeister, John M. Connecting device for articles of clothing. 3,699,617, 10-24-72, Cl. 24-81.0gs.
Hofmeister, Laurence C., to Bendix Corporation, The. Flight control system including automatic altitude locking means. 3,666,213, 5-30-72, Cl. 244-77.00d.
Hofmeister, Richard J.: See—
Gallas, John D.; and Hofmeister, Richard J., 3,703,323.
Hofmeister, Richard J.; and Salners, Edward A. Electronic chassis assembly for a television receiver. 3,679,829, 7-25-72, Cl. 178-7,900.
Hofschild, Clewell Stephen: See—
Croasdale, William Herbert; French, Harlan Sumner; Hofschild, Clewell Stephen; and Johnson, Donald Owen, 3,648,741.
Hofstein, Steven R., to Princeton Electronic Products, Inc. Multi-image and signal storage on a storage tube target. 3,639,910, 2-1-72, Cl. 340-172.5.
Hofstein, Steven R., to Princeton Electronic Products, Inc. Image transducing storage tube. 3,646,391, 2-29-72, Cl. 315-12.
Hoft, Richard G.; and Kume, Tsuneo, to Emerson Electric Co. Thyristor C. C. switch. 3,694,730, 9-26-72, Cl. 321-21,000.
Hogan, Arnold U.: See—
Young, Robert L.; Wood, Russell E.; Farney, Samuel D.; and Hogan, Arnold U., 3,702,211.
Hogan, Bernard E., Jr. Tire retreading method. 3,698,975, 10-17-72, Cl. 156-96,000.
Hogan, Elmer R.; and Simpson, John I., to Smith-Berger Manufacturing Corporation. Fish-beheading and cleaning apparatus. 3,670,363, 6-20-72, Cl. 17-55,000.
Hogan Faximile Corporation: See—
Sperling, Arthur W., 3,632,430.
Hogan, Harold E.: See—
Hagemeyer, Hugh J., Jr.; Hogan, Harold E.; and Johnson, Sam H., Jr., 3,701,760.
Hogan, James J., to Goodyear Aerospace Corporation. Solid state correlator. 3,638,006, 1-25-72, Cl. 235-181.
Hogan, John P.: See—
Bunting, William W., Jr.; Buskirk, Robert E.; Hogan, John P.; and Mahla, Elbert M., 3,704,975.
Hogan, John P., to Phillips Petroleum Company. Low density ethylene-butene copolymers. 3,666,736, 5-30-72, Cl. 260-88.2.
Hogan, Roy E., to Phillips Petroleum Company. Tower structure. 3,645,104, 2-29-72, Cl. 61-46.5.
Hogan, Walter J.: See—
Cook, William C.; and Hogan, Walter J., 3,641,558.
Hogan, Walter J.; and Malden, Ancile E., to International Business Machines Corporation. Staggered video digital TV system. 3,641,559, 2-8-72, Cl. 340-324.
Hoganas AB: See—
Wastenson, Erik Goran; and Bockstiegel, Georg Heinrich Artur Gerhard, 3,704,115.
Hogarth, Harold P. Apparatus for straightening metallic fishing rod mandrels and method of using same. 3,688,539, 9-5-72, Cl. 72-109,000.
Hogben, Peter Reginald; and Short, Eric. Mould for producing shaped articles from foam forming compositions. 3,656,730, 4-18-72, Cl. 249-134.
Hogberg, Knut Bertil: See—
Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; Kneip, Paul Hans Otto Josef; and Rohte, Oskar Adolf, 3,637,660.
Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; and Rohte, Oskar Adolf, 3,682,973.
Hogberg, Lars-Gunnar: See—
Eriksson, Erik Helmer; Frisk, Olof Edvin; Hogberg, Lars-Gunnar; Lofgren, Stig-Gunnar; and Tjarnstrom, Sven Paul, 3,659,636.
Hoge, Henri H., to Rhomega System, Incorporated. Variable frequency control circuit. 3,681,620, 8-1-72, Cl. 307-271,000.
Hoge, John H.: See—
Albert, Robert J.; and Hoge, John H., 3,650,784.
Hogel, John J., to General Electric Company. Fast initial response nuclear reactor control system. 3,671,390, 6-20-72, Cl. 176-24,000.
Hogel, Joseph E.; and Spethmann, Donald H., to Honeywell Inc. Pressure discriminator. 3,638,857, 2-1-72, Cl. 236-1.
Hogenmuller, Roger: See—
Garnier, Roger; Hogenmuller, Roger; and Massebeuf, Jacques, 3,660,348.
Hogfeldt, Frank: See—
Sorensen, Bent; and Hogfeldt, Frank, 3,662,169.
Hogg, Arthur: See—
Kirkby, Henry William; and Hogg, Arthur, 3,663,208.
Hogg, James W. Adhesive hanger. 3,633,865, 1-11-72, Cl. 248-467.
Hogg, Jerry D.: See—
Barnett, Elben Ray; and Barnett, Raymond Ray, 3,665,203.
Hogg, Walter R.: See—
Coulter, Wallace H.; and Hogg, Walter R., 3,686,486.
Klein, Robert I.; and Hogg, Walter R., 3,706,030.
Hogg, Walter R., to Coulter Electronics, Inc. Pulse analyzing apparatus. 3,668,531, 6-6-72, Cl. 328-150,000.
Hogg, Walter R.; and Figueroa, David R., to Coulter Electronics, Inc. Dynamic range splitter for an analyzer of particle-produced pulses. 3,670,150, 6-13-72, Cl. 235-151.3.
Hogg, Walter R., to Coulter Electronics, Inc. Particle analyzing apparatus. 3,689,833, 9-5-72, Cl. 324-71.0cp.
Hogg, Walter R., to Coulter Electronics, Inc. Axial trajectory sensor for electronic particle study apparatus and method. 3,700,867, 10-24-72, Cl. 235-151,300.
Hogg, Walter R., to Coulter Electronics, Inc. Axial trajectory sensor having grating means controlled by pulse duration measuring. 3,701,029, 10-24-72, Cl. 328-91,000.
Hogg, William J.; Jackson, Charles A.; Harvin, Septimus A.; and Whitesel, Joseph C., to Thiokol Chemical Corporation. Woven article as a carpet scrim. 3,695,983, 10-3-72, Cl. 161-71,000.
Hoggar, Clive William, to Marconi Company, Limited, The. Memory cells. 3,668,656, 6-6-72, Cl. 340-173,0ff.
Hoglund, Edward: See—
Stade, Bertil; and Hoglund, Edward, 3,633,558.
Hoglund, Edward; and Stade, Bertil. Pipe clamp. 3,633,254, 1-11-72, Cl. 24-276.
Hoglund, Michael J., to Honeywell Inc. Proportional fluidic gain changer. 3,687,150, 8-29-72, Cl. 137-81,500.
Hoglund, Nils, to Tri-Ordinate Corporation, mesne. Apparatus for simultaneously drilling and tapping a plurality of work pieces at each of a plurality of positions. 3,669,558, 6-13-72, Cl. 408-43,000.
Hoglund, Nils O., to Tri-Ordinate Corporation. Cam control grinding machine. 3,663,188, 5-16-72, Cl. 51-101,00r.
Hogrebe, Herbert C., to Dazor Manufacturing Corporation. Articulated carrying frame. 3,662,981, 5-16-72, Cl. 248-278.
Hogrebe, Herbert C., to Dazor Manufacturing Corporation. Wall bracket base assembly. 3,695,568, 10-3-72, Cl. 248-223,000.
Hogstrom, Edwin F.: See—
Rood, Alvin A.; Hogstrom, Edwin F.; and Stumphauzer, William C., 3,702,107.
Stumphauzer, William C.; Hogstrom, Edwin F.; Nord, Eric T.; Schneider, Richard E.; and Rood, Alvin A., 3,697,313.
Hogstrom, Edwin F.; Stumphauzer, William C.; and Nord, Eric T., to Nordson Corporation. Method for coating the interiors of hollow bodies. 3,640,758, 2-8-72, Cl. 117-96.
Hogue, Ephraim W., to United States of America, Postmaster General. Color gradient detector device. 3,670,169, 6-13-72, Cl. 250-226,000.
Hogue, Hiral: See—
Beaudoin, Jean Paul; Hogue, Hiral; and Larocque, Jacques, 3,695,423.
Hogue, Robert M. Strobe flash apparatus. 3,675,073, 7-4-72, Cl. 315-149,000.
Hogya, Bernard J.: See—
Chiang, John S. C.; and Hogya, Bernard J., 3,671,344.
Hogya, Bernard James; and Mc Manamon, Joseph Thomas, to FMC Corporation. Cleaning and brightening of lead-tin alloy-resisted circuit boards. 3,644,155, 2-22-72, Cl. 156-20.
Hohberger, Clive P., to Allen-Bradley Company, mesne. Transient reduction apparatus for hydraulic system. 3,665,948, 5-30-72, Cl. 137-81,500.
Hohenberg, Reiner Mathias; and Knitter, Heinz, to Bunker-Ramo Corporation, The. Reciprocating switch assembly for distribution panels. 3,699,280, 10-17-72, Cl. 200-16,00a.
Hohenegger, Helmut: See—
Mollet, Hans; Hohenegger, Helmut; Keller, Karlheinz; and Keller, Rudolf, 3,637,340.
Hohenlohe-Oehringen, Kraft: See—

- Bretschneider, Hermann; Grassmayr, Klaus; Hohenlohe-Oehringen, Kraft; and Grussner, Andre, 3,654,357.
Hohenschutz, Heinz: See—
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Milazzo, Carl J., 3,638,779.
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Uhtenwoldt, Herbert R.; Hohler, Frederick A.; and Wlodyka, Edmund E., 3,688,444.
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Wagenblast, Ernst; and Hohlwegler, Heinz, 3,637,098.
Wagenblast, Ernst; and Hohlwegler, Heinz, 3,656,644.
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Bien, Hans-Samuel; Hohmann, Walter; Vollmann, Heinrich; and Heinrich, Leister, 3,704,252.
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Roth, Helmut; Sohner, Gerhard; Hohne, Gerd; and Issler, Jorg, 3,651,793.
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Hohrai, Yoshiki: See—
Sato, Mikio; Hohrai, Yoshiki; and Fuziyoshi, Kozi, 3,635,056.
Hohsho, Yukio; Yamada, Koichiro; Oyama, Yoshishige; Teranishi, Takao; and Suzuki, Seikou, to Hitachi, Ltd. Carburetor. 3,669,423, 6-13-72, Cl. 261-36,00a.
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Yang, Tse T., 3,633,308.
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Hauser, Martin; and Hoinacki, Christine Elizabeth, 3,655,622.
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Hoier, Erik: See—
Johansson, Rolf; and Hoier, Erik, 3,680,940.
Hoji, Kazuhiko: See—
Yamamura, Yuichi; Yoshinaga, Tetsuo; Tsunoda, Kiyoshi; Tsutsumi, Yoshiatsu; and Hoji, Kazuhiko, 3,636,208.
Hojo, Katsuo: See—
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Hojo, Mitsuo. Automatic warmer. 3,644,709, 2-22-72, Cl. 219-439.
Hojo, Shiro; and Komiya, Kuniko, to Japan Gas-Chemical Company, Inc. V₂O₅/TiO₂/K₂SO₄ catalyst suitable for preparation of phthalic anhydride. 3,692,699, 9-19-72, Cl. 252-440,000.
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Hokama, Takeo: See—
Kahn, Henry; and Hokama, Takeo, 3,669,947.
Scardiglia, Frank; Disen, Israel J.; and Hokama, Takeo, 3,663,658.
Hokamura, Sadakazu: See—
Takiyama, Eiichiro; and Hokamura, Sadakazu, 3,676,524.
Hokanson, Lyle W., to Heath & Sherwood Drilling Limited. Drill rod structures. 3,658,368, 4-25-72, Cl. 285-333.
Hokanson, Lyle W.; and McBean, John W., to Heath & Sherwood Drilling Limited. Drill rod structure. 3,667,784, 6-6-72, Cl. 285-173,000.
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Hoke, Donald I.: See—
Gordon, Joseph; Kaufman, Paul R.; and Hoke, Donald I., 3,649,688.
Hoke, Donald I., to Lubrizol Corporation, The. N-3-Aminoalkyl amides, polymers thereof, and method for their preparation. 3,666,810, 5-30-72, Cl. 260-561,00n.
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Hoke, Gilbert J., to Dunlop Tire and Rubber Corporation. Tire thread. 3,706,334, 12-19-72, Cl. 152-209,000.
Hoke Incorporated: See—
Pugliese, Joseph A., 3,695,647.
Hokkaido Sugar Company, Ltd.: See—
Shimizu, Junichi; and Kaga, Toshio, 3,664,927.
Hokko Chemical Industry Co., Ltd.: See—
Sato, Katsumi; Nakamura, Takashi; Nakamura, Masaru; Hirasawa, Kazuo; Hamada, Mitsuo; Takahashi, Kenzi; Yashima, Masaaki; Ozaki, Toshiaki; Yamamoto, Sigeo; Ooishi, Tadashi; Fujinami, Akira; Horiuchi, Fukashi; and Nodera, Katsuji, 3,703,526.
Hokuriku Electric Industry Co., Ltd.: See—
Endo, Tsunehiko, 3,648,364.
Hokushin Electric Works, Ltd.: See—
Tsunoda, Satoshi, 3,704,942.
Holan, George, to Monsanto Australia Limited. 1,1-Di(p-substituted phenyl)-2,2-dichlorocyclopropanes propanes. 3,642,910, 2-15-72, Cl. 260-613.
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Holan, Leif A.; stockholders of Winona Industries, Inc.: See—
Holan, Leif A., 3,672,415.
Holan, Leif A., Wernz, William, and Miesbauer, Rudolph; stockholders of Winona Industries, Inc.: See—
Holan, Leif A., 3,690,356.
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Holava, Henry Michael; and Partyka, Richard Anthony, to Bristol-Myers Company. 4,4-Diphenylhexahydroazepine compounds. 3,666,752, 5-30-72, Cl. 260-239,00b.
Holbert, Dimitry, to Standard Alliance Industries, Inc. Conveyor. 3,678,861, 7-25-72, Cl. 104-172,000.
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Holbert, Marvin L., Jr., to Gray Tool Company. Tie-back system for underwater completion. 3,664,423, 5-23-72, Cl. 166-297.
Holbrook, Franklin K.: See—

- Rickard, Donn J.; Rohm, Robert F.; and Holbrook, Franklin K., 3,682,207.
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- Wise, Henry; and Holbrook, Larry L., 3,658,069.
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- Selin, Clifford E.; Lyon, Lloyd B.; Holbrook, Stanford T.; and Hammond, Francis H., 3,702,340.
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- Gasaway, Glen P.; and Holbrook, Thomas Render, 3,642,516.
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- Crans, Roland C., 3,644,099.
- Schwalm, Donald J.; and Bayer, Edward C., 3,662,996.
- Holdaway, Daniel O., to International Business Machines Corporation. Radiant energy mark sensor. 3,699,350, 10-17-72, Cl. 250-225,000.
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- Von Hollen, Dieter; and Holder, Heinz, 3,697,718.
- Holder, Jean: *See—*
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- Holderbank Management & Consulting Ltd.: *See—*
- Bosshard, Ulrich Walter, 3,703,277.
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- Holderith, William J., to Becton, Dickinson and Company. Plasma separator system. 3,654,925, 4-11-72, Cl. 128-272.
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- Habashi, Fathi; Dugdale, Raymond; and Holderreed, Francis L., 3,650,679.
- Holdham, Bertram Roy, to Polydesigns Limited. Foldable platform device. 3,696,762, 10-10-72, Cl. 108-134,000.
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- Thompson, Sam W.; and Holdingsworth, Roy B., 3,688,741.
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- Hardy, Clarence James; and Holdoway, Michael Joseph, 3,704,147.
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- Burgess, James F.; Kopezewski, Robert F.; and Holeman, John M., 3,679,299.
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- Holford, Warren L.: *See—*
- Williams, Richard E.; and Holford, Warren L., 3,668,559.
- Holfort, Horst: *See—*
- Dobbelstein, Arnold; Hille, Hans-Dieter; and Holfort, Horst, 3,707,403.
- Holick, Michael F.: *See—*
- De Luca, Hector F.; Schnoes, Heinrich K.; and Holick, Michael F., 3,697,559.
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- Aronoff, Arnold, 3,698,522.
- Holiday, Morton J. Connector for control circuits for a tape perforator. 3,656,085, 4-11-72, Cl. 339-91.
- Holiday Vehicle Specialties, Inc.: *See—*
- Clark, Arthur C.; and Timmons, Ted, 3,695,676.
- Holiday, William, to Mattel, Inc. Self teaching machine. 3,662,078, 5-9-72, Cl. 35-9.
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- Boik, Arnold R.; and Holk, Albert J., Jr., 3,690,706.
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- Vessey, Clifford A.; Albon, Colin; and Holker, Kenneth, 3,706,603.
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- Holl, Helmar H.: *See—*
- Kleinschmidt, Johann O.; Walter, Heinz E.; and Holl, Helmar H., 3,667,413.
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- Holl, William H.: *See—*
- Brainard, Norman R.; and Holl, William H., 3,647,017.
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- Chierici, Osvaldo F., 3,635,170.
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- Godley, Augustus P.; Fuller, Francis M.; Houk, Charles R.; Holland, Henry A. Nelson; and Gendron, George J., 3,641,775.
- Holland Hitch Company: *See—*
- Korodi, Miklos B.; and Runyan, Clarence R., 3,675,946.
- Neff, Charles G.; and Carrier, Louis V., 3,640,549.
- Holland, I., Limited: *See—*
- Juffs, Christopher Paul, 3,650,163.
- Holland, Islaye, to USM Corporation, mesne. Manufacture of shoe components. 3,631,553, 1-4-72, Cl. 12-1.
- Holland, J. H., Company, The: *See—*
- Holland, John H., 3,670,909.
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- Bettencourt, Joseph, 3,677,620.
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- Field, Donald G., 3,645,198.
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- Hollard, Daniel: *See—*
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Korol, Maurice G.; and Holley, Thomas H., 3,636,714.
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Etes, Donald E., 3,640,741.
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- Hollows, Frank Brian, to Imperial Chemical Industries, Limited. Preparation of fire-extinguishing material comprising heating biuret with sodium or potassium hydroxide. 3,642,621, 2-15-72, Cl. 252-51.
- Hollox, Graham E.; Precht, Walter; Lye, Robert G.; and Westwood, Albert R. C., to Martin-Marietta Corporation. High temperature TiC-VC structural materials. 3,661,599, 5-9-72, Cl. 106-43.
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Hoeffle, Milton L.; and Holmes, Ann, 3,666,771.
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Holmes, Raymo W.; and Holmes, Elizabeth E., 3,698,779.
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Symoniak, Martin Francis; Torke, David Allen; and Holmes, Ervine Stout, 3,700,589.
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Martin, Kenneth C.; Baxter, Michael D.; and Holmes, John F., 3,687,579.
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Theis, James V., Jr.; McCord, John B.; and Holly, Harry H., 3,707,336.
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- Holly, James A., to Hollymatic Corporation. Electrical connector. 3,676,835, 7-11-72, Cl. 339-73.000.
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Pioli, Alexander Joseph Peter; Hollyhead, William Brian; and Todd, Peter Frank, 3,681,317.
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Holly, James A., 3,654,665.
Holly, James A., 3,676,835.
Holly, James A., 3,683,442.
Holly, James A., 3,693,213.
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Goldmark, Peter C.; and Hollywood, John M., 3,678,181.
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Norr, Artur Valter Leopold; and Holm, Fritz Bertil Willy, 3,654,085.
- Holm, Herbert K.: *See—*
Holm, Thomas E., 3,707,229.
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Gynt, Lars; and Holm, Lennart, 3,706,285.
- Holm, Leroy W.: *See—*
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Sarem, Amir M.; and Holm, Leroy W., 3,704,990.
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Graff, Richard; and Holm, Svend A., 3,662,229.

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- Holmes, John T.: See—
Visser, Donald R.; Holmes, John T.; Nelson, Paul A.; and Bartholme, Louis G., 3,683,272.
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Siegel, Joel, 3,654,455.
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Hilderbrand, Bernard P., 3,655,258.
Langlois, Gary N., 3,687,219.
Lee, Jerald D., 3,632,181.
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Neeley, Victor I.; and Libby, Hugo L., 3,640,598.
Sturdevant, Eugene J., 3,667,946.
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Weber, Bob L., 3,647,289.
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Jordon, Heinz, 3,635,263.
Knabe, Uwe, 3,699,740.
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Fock, Jurgen; and Holtschmidt, Ulrich, 3,689,592.
Fock, Jurgen; and Holtschmidt, Ulrich, 3,694,418.
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Fehler, Adolf; Greune, Christian; and Holzhauser, Hilbert, 3,688,495.
- Holzhi, Don Earl, to Deere & Company. Impact mowing machine. 3,673,772, 7-4-72, Cl. 56-13.100.
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Glaski, Frederick A.; Holzl, Robert A.; and Kaplan, Richard B., 3,640,689.
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Zerna, Wolfgang; and Muhe, Ludwig, 3,696,573.
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Medawar, George E.; and Hom, Felix, 3,702,220.
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De Jager, Evert; and Homan, Jan Daniel Herman, 3,678,027.
- Homan, Oris T., to Triangle Industries, Inc., mesne. Case-hardened metals. 3,634,145, 1-11-72, Cl. 148-6.11.
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Walker, Harold R.; and Kamen, Ira, 3,639,686.
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Levinstein, Stanley; and Lepow, Edward J., 3,635,178.
- Home Metal Products Company: See—
Stalker, James E., 3,695,164.
- Homeier, Ronald F.; and Richardson, Larry E., to FMC Corporation. Dual bend conveyor. 3,651,924, 3-28-72, Cl. 198-189.
- Homeier, Ronald F., to FMC Corporation. Training apparatus for driven belts. 3,693,781, 9-26-72, Cl. 198-202.000.
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Hoffmann, Hellmut; Hammann, Ingeborg; and Homeyer, Bernhard, 3,700,687.
- Schliebs, Reinhard; Schlor, Hanshelmut; and Homeyer, Bernhard, 3,644,598.
- Schlor, Hanshelmut; Hammann, Ingeborg; and Homeyer, Bernhard, 3,641,223.

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- Homier, Robert I.; and Posh, Raymond C., to Lear Siegler, Inc. Adjustable seat assembly. 3,692,271, 9-19-72, Cl. 248-394.000.
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Sassa, Atsuo; Yukutomi, Masuo; Shinkawa, Hirotoishi; Moriya, Tuneso; and Homma, Keisuke, 3,697,566.
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Sato, Fujio; and Homma, Ko, 3,686,466.
- Homma, Ku, to Akai Electric Company Limited. Magnetic transducer head with separable pole tips. 3,684,839, 8-15-72, Cl. 179-100.0zc.
- Homma, Makoto: See—
Tauchi, Shoji; Miwa, Ichiro; and Homma, Makoto, 3,707,410.
- Homma, Noriyuki, to Hitachi, Ltd. Magnetic thin film memory. 3,697,967, 10-10-72, Cl. 340-174.0ca.
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- Homs, Douglas M. Key for sprinkler valve. 3,635,106, 1-18-72, Cl. 81-121.
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- Homs, Douglas M. Adjustably positioned paper dill and punch. 3,689,167, 9-5-72, Cl. 408-53.000.
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Belknap, Charles B.; and Drum, James R., 3,687,326.
- Drum, James R.; and Temple, Philip A., 3,705,754.
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- Honaker, Harold H.: See—
Manilla, Charles E.; Honaker, Harold H.; and Gothard, David O., 3,652,235.
- Manilla, Charles E.; Honaker, Harold H.; and Gothard, David O., 3,678,567.
- Honda Giken Kogyo Kabushiki Kaisha: See—
Ashikawa, Noboru; and Maruno, Fujiya, 3,700,083.
- Date, Tasuku; and Hashimoto, Eiichi, 3,670,710.
- Honda, Shoichi, 3,656,361.
- Honda, Soichiro; and Shimojima, Hiroyuki, 3,639,882.
- Honda, Soichiro, 3,650,249.
- Honda, Soichiro, 3,669,203.
- Honda, Soichiro, 3,690,429.
- Kobayashi, Yozaburo, 3,675,944.
- Koyama, Mikihiro, 3,698,503.
- Koyama, Mikihiro; and Inagaki, Takashi, 3,705,733.
- Michiuchi, Masayuki, 3,664,209.
- Nishikawa, Masao, 3,693,747.
- Nishimura, Sadanori, 3,678,952.
- Sakata, Mamoru; Komori, Hiroyuki; and Fujii, Katsuhiko, 3,649,959.
- Senzaki, Takaya, 3,667,020.
- Washizawa, Yoshikazu, 3,638,744.
- Watanabe, Yoshinori, 3,655,016.
- Yoshino, Hiroyuki, 3,667,440.
- Honda, Hiroshi: See—
Okada, Hitoshi; Kaneko, Masaharu; Kato, Yoshiaki; and Honda, Hiroshi, 3,646,069.
- Honda, Ichiro: See—
Okamoto, Kazuo; Eguchi, Naoki; Sakao, Nasuo; Honda, Ichiro; and Suzuki, Eizo, 3,647,571.
- Honda, Kiyoshi; Miyazaki, Mitsumasa; Nomura, Shozaburo; Akiyama, Kazuo; and Hirose, Kazutoyo, 1/2% to Dainippon Ink and Chemicals, Incorporated and 1/2% to Dainippon Ink Institute of Chemical Research, The. Coating resinous composition. 3,694,415, 9-26-72, Cl. 260-77.5cr.
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Tokitomo, Soichi; Honda, Masakazu; Nakayama, Fumio; and Ueno, Keisiro, 3,675,541.
- Honda, Masasada: See—
Ota, Tomiyoshi; Takigawa, Katunobu; and Honda, Masasada, 3,699,948.
- Honda, Masatsugu; and Shinozaki, Masanobu, to Victor Company of Japan, Limited. Protective circuit for an all stage direct-coupled transistor output transformerless-output condenserless amplifier. 3,691,427, 9-12-72, Cl. 317-31.000.
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Fukuda, Tadanori; Takahashi, Masao; Ogihara, Shoji; and Sekiya, Masato, 3,706,589.
- Honda, Shoichi, to Honda Giken Kogyo Kabushiki Kaisha. Silent chain-transmission apparatus. 3,656,361, 4-18-72, Cl. 74-240.000.
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Akamatsu, Toshiaki; and Honda, Shou, 3,633,438.
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- Honda, Takeshi: See—
Okumura, Shinji; Otsuke, Shinichiro; Yamanoi, Akio; Yoshinaga, Fumihiko; Honda, Takeshi; Kubota, Koji; and Tsuchida, Takayasu, 3,660,235.
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Iwami, Ichiro; Honda, Toshio; and Fukuura, Yukio, 3,673,022.
- Honda, Toshio; Kubota, Eishi; Fukuura, Yukio; and Kobayashi, Yoneji, to Bridgestone Tire Company Limited. Adhesive for adhering a polyester fibrous material or an inorganic material with a rubber and method thereof. 3,705,868, 12-12-72, Cl. 260-29.70r.
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Doi, Yoshikazu; and Honda, Yasuo, 3,672,748.
- Honda, Yukio; and Kawamura, Tsukasa, 1/2 to Tamura Electric Works, Limited and 1/2 to Yukio Honda. Remote meter reading system having electro-mechanical oscillators. 3,654,605, 4-4-72, Cl. 340-151.
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Chujo, Kiyoshi; and Honda, Zenjiro, 3,634,329.
- Hondermarck, Jean Claude; Bennett, Ian Cameron; and Guillo, Jacques, to British Petroleum Company Limited, The. Cultivation and recovery of micro-organisms. 3,705,082, 12-5-72, Cl. 195-28.00r.
- Honeiser, Vladimir Paul: See—
Brand, John Seemann; and Honeiser, Vladimir Paul, 3,652,332.
- Honet Hydraulic Units Limited: See—
Wiles, David John; and Wright, John Milford, 3,644,911.
- Honey, Alfred John: See—
Britt, Jack; and Honey, Alfred John, 3,640,638.
- Honey, Charles C.: See—
Heinrichs, Frank W., Jr.; Polasky, Alex F.; Honey, Charles C.; and Toothman, Lawrence R., 3,681,516.
- Honey, Francis J.: See—
Harrison, Lee, III; Honey, Francis J.; Tajchman, Edwin J.; and Bowles, Lloyd W., 3,662,374.
- Harrison, Lee, III; Honey, Francis J.; and Tajchman, Edwin J., 3,700,792.
- Honey, Francis J.; and Wells, Frank D., to Computer Image Corporation. Frequency selector and synthesizer. 3,689,917, 9-5-72, Cl. 340-324.00a.
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Honeycutt, Sammy C., to Lithium Corporation of America. Preparation of microcrystalline waxes. 3,652,696, 3-28-72, Cl. 260-668.
Honeywell Inc.: See—
Aagard, Roger L.; and Schmit, Francis M., 3,705,395.
Acker, William F., 3,652,946.
Adams, James R., Jr., 3,673,436.
Ages, Frederik J., 3,654,963.
Agrawala, Ashok K.; Dixon, Samuel J.; and Sollman, George H., 3,689,903.
Andrews, John R., Jr., 3,657,478.
Andrews, John R., Jr., 3,660,675.
Archer, Alva I., 3,702,025.
Aske, Robert L., 3,636,880.
Ball, Thomas E.; and Anderson, Vincent R., 3,701,962.
Ballinger, Dale O., 3,662,397.
Ballinger, Dale O., 3,662,398.
Ballinger, Dale O., 3,683,382.
Baring, John A., 3,653,069.
Beck, Charles H.; and Meyers, William F., 3,646,425.
Beckert, Adolf F., 3,660,636.
Belson, Ross A.; and Palombo, Gaston A., 3,644,806.
Benson, Victor M.; and Klein, Stuart K., 3,651,482.
Bentsen, Louis J., 3,670,745.
Bergin, William P., 3,701,145.
Betz, Bernard K., 3,705,295.
Bicking, Robert E., 3,667,013.
Blecher, Stephen, 3,697,161.
Boehme, Robert M., 3,684,841.
Borelli, Ronald F.; Despres, Daniel C.; and Garand, Donald J., 3,687,107.
Borelli, Ronald F.; and Garand, Donald J., 3,701,337.
Bower, Robert G.; Eveland, Baisel L.; Markowitz, Ivan N.; and Masterson, Earl E., 3,693,967.
Breikss, Ivars P., 3,702,382.
Bulleyment, Keith J., 3,643,150.
Burton, Robert V., 3,648,564.
Buttweiler, Thomas B.; and Titus, Joseph S., 3,648,056.
Carlson, Donovan R.; and Maruska, William O., 3,640,225.
Cashin, William F.; and Mourning, James R., 3,673,867.
Corker, William R., 3,642,344.
Cummings, John P.; and Berg, Richard E., 3,676,321.
Currie, William E., 3,699,587.
De Bretagne, Yves; and Manier, Francis, 3,707,676.
Demark, Anthony M., 3,654,545.
Dickey, Marcus P.; and McIntyre, Donald C., 3,644,784.
Doki, Yoshikuni, 3,698,247.
Dougherty, William R., 3,703,829.
Duncan, Stephen H., 3,659,818.
Eachus, Joseph J., 3,660,774.
Eachus, Joseph J., 3,685,016.
Engle, Gordon A., 3,674,969.
Enrique, Bernal G., 3,632,212.
Familton, Stanley G., 3,707,215.
Findeisen, Heinz H., 3,633,162.
Forman, Herbert W.; and Muse, Everett W., 3,654,434.
Freedborn, John C., 3,638,130.
Frey, Karl A.; and Schliffke, Warner F., 3,685,216.
Fulkerson, David E., 3,700,924.
Gilman, Gareld I.; and Wallace, Robert H., 3,693,044.
Givens, Richard C.; and Glass, Robert A., 3,657,722.
Grenda, Edward P.; Guiguizian, Jacques; and Shneider, Harold M., 3,693,019.
Hagadorn, Margery F., 3,683,445.
Hanas, Walter E., 3,635,067.
Harper, Samuel D., 3,633,175.
Hawkins, Royal R., 3,674,177.
Hogel, Joseph E.; and Spethmann, Donald H., 3,638,857.
Hoglund, Michael J., 3,687,150.
Holtey, Thomas O., 3,651,472.
Hron, Roland L.; and Jannink, Franciscus A., 3,671,169.
Hron, Roland L., 3,672,811.
Hutch, Frederick S.; and Phares, Bruce G., 3,665,414.
Jayaram, M. R.; and Sidaris, Nickolas J., 3,654,591.
Joesting, Frederick D., 3,648,716.
Joesting, Frederick D., 3,672,567.
Johnson, Gary N.; and Wilson, Larry E., 3,703,681.
Jordan, William F., Jr., 3,653,004.
Juvonen, Toivo A.; and Robillard, Gene A., 3,693,374.
Kane, Hugh, 3,639,866.
Kane, Hugh, 3,648,203.
Kane, Hugh; and Richardson, George W., 3,663,908.
Kane, Hugh, 3,676,628.
Kardashian, Vahram S., 3,657,641.
Kautz, Murrell F., 3,680,023.
Kefilas, John H., 3,655,441.
Kizilos, Apostolos P., 3,686,951.
Kreidermacher, Leonard L., 3,634,883.
Kreidermacher, Leonard L.; and Hudson, David M., 3,641,331.
Kuntz, Leland E., 3,674,094.
Lazar, Jeffrey M., 3,672,339.
Lee, Tzuo-Chang, 3,663,091.

Lee, Tzuo-Chang; and Zook, James D., 3,650,602.
Lee, Tzuo-Chang, 3,698,010.
Lee, Tzuo-Chang, 3,706,080.
Leffmann, Paul H., 3,651,402.
Leidy, Lester R., Jr., 3,666,336.
Lone, Peter R., 3,698,004.
Lowe, Peter R., 3,700,955.
Lowe, Peter Robert, 3,646,370.
Malcolm, Ronald D.; Phelan, William J.; and Sangiolo, Thomas L., 3,698,007.
Markowitz, Ivan N.; and Cherian, Abraham, 3,636,313.
Martin, Ronald L., 3,664,580.
Maskal, Haim, 3,705,758.
McConnell, Robert G., 3,634,867.
McConnell, Robert G., 3,696,782.
Mekota, John E., Jr.; Hudson, David M.; Rankin, Thomas G.; and Champagne, Jean E., 3,657,705.
Merchant, John, 3,663,098.
Mercier, Alfred C., 3,681,691.
Merhar, Donald M., 3,701,903.
Meyer, Jack R., 3,668,529.
Miller, Robert C.; and Nevins, Glenn R., 3,666,076.
Miller, Robert L., 3,686,513.
Miller, Robert L.; and Higgins, David H., 3,699,422.
Moore, Dana W., 3,681,767.
Mott, Richard C., 3,669,561.
Murata, Eiji; and Ito, Kohoku, 3,675,540.
Myers, Edward B., 3,635,247.
Nelson, Richard E., 3,654,948.
Nicholas, Merle E., 3,703,697.
Ogawa, Shinichiro; and Fukuda, Ryuhei, 3,693,645.
Packer, Marvin, 3,692,548.
Paul, Ian Andrew, 3,675,050.
Peterson, Dean M., 3,635,550.
Piccirilli, Albert T.; Cochrane, Frederick P.; and Redner, Eugene S., 3,652,943.
Pileckis, John, 3,705,990.
Pinckaers, Balthasar H., 3,660,718.
Pinckaers, Balthasar Hubert, 3,694,663.
Pinckaers, Balthasar Hubert, 3,702,431.
Plumley, Christopher, 3,707,714.
Power, Gerald P., 3,674,566.
Prescott, Robert S., 3,673,507.
Proulx, George G., 3,701,494.
Raudsep, Ilmar G., 3,673,555.
Recks, John A., 3,660,823.
Regitz, William M., 3,653,034.
Regitz, William M.; and Dundon, Thomas M., 3,706,084.
Resh, John S., 3,691,331.
Resh, John S., 3,700,843.
Royster, Larry H., 3,673,441.
Saliga, Thomas V., 3,659,212.
Sanford, Douglas C., 3,648,105.
Sawamura, Robert T., 3,643,073.
Scheer, David W., 3,648,141.
Scheer, David W., 3,653,027.
Schoenwitz, Frank H. W., 3,636,560.
Schoenwitz, Frank H. W., 3,641,530.
Schoenwitz, Frank H. W., 3,697,953.
Scott, Myrsyl W.; and Stelzer, Ernest L., 3,638,026.
Semienko, Peter P.; and Toledo, Emil, 3,669,865.
Sharp, Alexander; and Allan, Donald William, 3,689,771.
Shiosaki, James T., 3,691,552.
Shneider, Harold M.; and Bower, Robert G., 3,701,524.
Sidaris, Nickolas J., 3,688,981.
Sine, Joseph D., 3,649,368.
Smith, Kenneth B., 3,693,182.
Sollman, George H.; and Dixon, Samuel J., 3,671,960.
Sollman, George H., 3,678,503.
Sollman, George H.; and Dixon, Samuel J., 3,697,977.
Sparrow, Hubert T., 3,638,153.
Spethmann, Donald H., 3,692,240.
Srivastava, Keshava; and Agrawala, Ashok K., 3,685,033.
Stauffer, Norman L., 3,671,681.
Stern, David M., 3,683,369.
Strohmeyer, Garry G., 3,668,686.
Strong, Roger K., 3,662,601.
Swanson, Frank D.; and Gregornik, Norm, 3,649,599.
Templeton, Leroy N., Jr.; Grant, Paul J.; and Strassberg, Daniel D., 3,633,093.
Thoen, Richard, 3,662,610.
Thron, John E.; Woods, William E.; Belletiere, Ronald; and Stein, Howard, 3,648,252.
Trull, Gary E., 3,704,719.
Tyler, Tommy N., 3,633,720.
Wainio, Allan C., 3,690,581.
Warren, James S., 3,705,783.
Warrington, Bertil Eck; and Cash, Michael J., 3,699,588.
Wilwerding, Dennis J., 3,679,991.
Wilwerding, Dennis J., 3,706,911.
Wiseley, Thomas D.; and Rallis, Roy, 3,688,056.

Wu, Alan C., 3,706,083.
Yu, Frank K., 3,686,629.
Zook, James David, 3,696,346.
Honeywell Information Systems, Inc.: See—
Aguirre, Michael C., 3,702,942.
Armstrong, Thomas R., 3,696,402.
Blessin, Ronald W.; and Kennedy, James A., 3,680,057.
Bond, Kenneth L.; and Schooley, James A., 3,662,402.
Campbell, Donald J., 3,639,912.
Campbell, Donald J.; Heffner, William J.; Jennings, Paul H.; and King, Jane E., 3,665,487.
Cooper, Stuart B., 3,681,529.
Cuccio, Allen B. J., 3,653,028.
Duben, Franklin T., 3,703,711.
Edfors, John Eric; Romano, Domenic; and Quattrini, Victor, 3,691,432.
Fox, David J.; King, Jane E.; and Nardelli, Orazio J., 3,670,306.
Genuit, Luther L.; and Nowell, John R., 3,656,052.
Howell, Thomas H., 3,700,870.
Howell, Thomas H., 3,701,094.
Kefalas, John H., 3,707,706.
Kindell, Jerry L.; and Trubisky, Leonard G., 3,699,326.
Klavins, Aldis, 3,699,525.
Lee, Fred S., 3,676,873.
Markowitz, Ivan N.; and Bower, Robert G., 3,668,496.
Nowell, John R., 3,679,964.
Nowell, John R.; and Genuit, Luther L., 3,697,853.
Nowell, John R., 3,707,684.
Olney, Frederick Darwin, Jr., 3,701,329.
Pichal, Henri T., 3,676,785.
Reichhard, Robert W., 3,701,126.
Rhodes, Russell R., 3,668,432.
Ripplinger, Roland E., 3,648,168.
Ruth, Richard L., 3,676,861.
Scanlon, F. Taylor, 3,681,782.
Srivastava, Keshava; and Dixon, Samuel J., 3,656,149.
Honeywell Information Systems Inc., mesne: See—
Beard, Albert L.; and Hunter, John C., 3,665,415.
Blessin, Ronald W.; and Kennedy, James A., 3,680,051.
Coleman, Larry R., 3,675,524.
Drenten, Richard C., 3,643,204.
Ester, Charles E., 3,665,369.
Fields, John H., 3,644,792.
Finch, DeVer C.; and Kennedy, James A., 3,676,858.
Genuit, Luther L.; and Lackey, Roger D., 3,636,541.
Jones, William H., 3,699,554.
Lipp, James P., 3,643,228.
Lipp, James P.; and Jones, William H., 3,671,935.
Maggio, Anthony F., Jr., 3,671,945.
Milford, Richard E.; and Hanchett, Lenand J., Jr., 3,638,238.
O'Keefe, James Edward, 3,632,973.
Olney, Frederick D., Jr., 3,646,246.
Olney, Frederick D., Jr., 3,701,838.
Ruth, Richard L.; and Shelly, William A., 3,643,223.
Tinkelenberg, William G.; and Fredenberg, James D., 3,660,799.
Webb, Larry Joe, 3,699,438.
Honeywell Information Systems Italia: See—
Cattaneo, Sergio, 3,698,529.
Cucciat, Carlo; and Buttafava, Pietro, 3,692,983.
Forlani, Franco; and Rodari, Gianpiero, 3,691,401.
Kassabgi, Georges; and Compare, Giampiero, 3,676,746.
Honeywell Information Systems Italia S.p.A.: See—
Bonzano, Giorgio, 3,636,867.
Bonzano, Giorgio, 3,656,041.
Castoldi, Fabrizio, 3,707,121.
Kassabgi, Georges; and Vinsani, Mario, 3,657,527.
Vinsani, Mario; and Carnevale, Angelo, 3,649,910.
Vinsani, Mario; and Trinca, Celio, 3,662,369.
Hong, Kyonghi. Impedance protector. 3,688,227, 8-29-72, Cl. 335-7.000.
Hong, Se J., to International Business Machines Corporation. Error detection circuit for decoders. 3,693,152, 9-19-72, Cl. 340-146.1ag.
Hong, Soon Pil. Automotive visor. 3,692,355, 9-19-72, Cl. 296-97.00g.
Hong, Sung Kul. Projection screen. 3,704,055, 11-28-72, Cl. 350-128.000.
Hong, Sung Whee: See—
Schichman, Daniel; and Hong, Sung Whee, 3,701,702.
Hongo, Toshio. Combination hydraulic shearing and pressbrake machine. 3,668,919, 6-13-72, Cl. 72-453.
Hongu, Tomokazu: See—
Miyachi, Kiyoichi; Hashino, Shinsuke; and Hongu, Tomokazu, 3,675,346.
Honig, David. Amusement device. 3,636,650, 1-25-72, Cl. 46-1.
Honig, Hans Ludwig: See—
Scheibitz, Maria; Von Konig, Anita; Kampfer, Helmut; Mayer, Dietmar; Sasse, Klaus; Kolb, Gunter; Honig, Hans Ludwig; and Meiser, Werner, 3,690,884.
Honig, Hans Ludwig; Suling, Carlhans; Dieterich, Dieter; and Reischl, Artur, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of modified cationic emulsion polymers with cationic polyurethane. 3,684,758, 8-15-72, Cl. 260-29.6nr.
Honig, Hans Ludwig; Balle, Gerhard; Keberle, Wolfgang; and Dieterich, Dieter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of modified anionic emulsion polymers with anionic polyurethane. 3,705,164, 12-5-72, Cl. 260-29.6nr.
Honig, Helmut: See—
Dillenburg, Helmut; Honig, Helmut; and Moser, Wilhelm, 3,700,414.
Honig, William. Collapsible luggage bag. 3,647,035, 3-7-72, Cl. 190-45.
Honig, William M.; Paschke, Richard H.; and Haggag, Jacob, to Cavitron Corporation. Magnetostrictive drive circuit feedback core. 3,654,540, 4-4-72, Cl. 318-118.
Honigsbaum, Richard F. Alternating current electro-fluid dynamic energy conversion device. 3,638,054, 1-25-72, Cl. 310-10.
Honigsmid-Grossich, Rudiger: See—
Termin, Erich; Rogler, Walter; Joch, Wilhelm; and Honigsmid-Grossich, Rudiger, 3,679,724.
Honjo, Satoru: See—
Pbuchi, Kazuo; and Honjo, Satoru, 3,653,938.
Sato, Masamichi; Tamai, Yasuo; Matsumoto, Seiji; and Honjo, Satoru, 3,642,515.
Sato, Masamichi; Matsumoto, Seiji; and Honjo, Satoru, 3,681,065.
Sato, Masamichi; Fukushima, Osamu; Miyazuka, Hajime; Takimoto, Masaaki; Matsumoto, Seiji; Tamai, Yasuo; and Honjo, Satoru, 3,685,907.
Sato, Masamichi; Matsumoto, Seiji; Honjo, Satoru; and Hayakawa, Yoshizide, 3,689,768.
Takimoto, Masaaki; Sato, Masamichi; and Honjo, Satoru, 3,655,966.
Tamai, Yasuo; Matsumoto, Seiji; and Honjo, Satoru, 3,655,419.
Tamai, Yasuo; Osada, Chiaki; Ono, Hisatake; and Honjo, Satoru, 3,660,086.
Tamai, Yasuo; and Honjo, Satoru, 3,668,126.
Tamai, Yasuo; and Honjo, Satoru, 3,672,988.
Tamai, Yasuo; and Honjo, Satoru, 3,682,825.
Tamai, Yasuo; and Honjo, Satoru, 3,692,523.
Tamai, Yasuo; Sato, Masamichi; Matsumoto, Seiji; and Honjo, Satoru, 3,703,400.
Honjo, Satoru; and Tsuji, Nobuo, to Fuji Photo Film Co., Ltd. Method of producing an electrophotographic and electrographic recording member. 3,656,949, 4-18-72, Cl. 96-1.5.
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Honjo, Yoshihiko: See—
Hidaka, Tsuneyoshi; Morita, Akiyoshi; Honjo, Yoshihiko; and Nishimura, Takashi, 3,681,518.
Hidaka, Tsuneyoshi; and Honjo, Yoshihiko, 3,702,897.
Honjoh, Masao L.; and Sifniades, Stylianos, to Allied Chemical Corporation. Acetate derivatives of 4-nitro-1-hydroxy olefins and process for the preparation thereof. 3,637,816, 1-25-72, Cl. 260-488.
Honkasalo, Jorma B.: See—
Bryk, Petri; Haani, Martti; Honkasalo, Jorma B.; Kinnunen, Jorma; Lindsjo, Olle; Nyholm, Erik; Poijarvi, Jaakko; Rastas, Jussi; and Kangas, Juhani, 3,677,696.
Honkasalo, Jorma Bruno: See—
Bryk, Petri; Honkasalo, Jorma Bruno; and Malmstrom, Rolf Einar, 3,681,046.
Honma, Hideo: See—
Fujishima, Satoru; and Honma, Hideo, 3,648,184.
Honma, Shiro: See—
Kashiwa, Norio; Tohoru, Tomoshige; Kobayashi, Toshio; and Honma, Shiro, 3,705,886.
Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi,

- Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar Takao; Sudo, Takao; and Tomita, Teiji, to Tokyo Shibaura Denki Kabushiki Kaisha. Apparatus for printing railway tickets and the like. 3,696,717, 10-10-72, Cl. 95-4.500.
- Honn, James B.: *See—*
Platz, Gerald M.; and Honn, James B., 3,669,347.
- Honnef, Peter. Golf practice device. 3,666,271, 5-30-72, Cl. 273-185.
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Heinz, Hubert; and Honsberg, Gunter, 3,704,837.
- Honsberg, Wolfgang, to Du Pont de Nemours, E. I., and Company. Absorption and hydrolysis of carbon oxysulfide. 3,660,017, 5-2-72, Cl. 23-2.
- Honsho, Norihisa; Yasuda, Satoshi; and Wakahata, Tamotsu, to Matsushita Electric Industrial Co., Ltd. Method for molding thermoplastic articles having through-holes therein. 3,649,728, 3-14-72, Cl. 264-40.
- Honshu Paper Company: *See—*
Ohmori, Koichiro, 3,700,518.
- Honshu Paper Manufacturing Company Limited: *See—*
Kamio, Shigeo, 3,650,890.
- Honsinger, Vernon B., to Allis-Chalmers Manufacturing Company. Synchronous reluctance motor. 3,652,885, 3-28-72, Cl. 310-163.
- Honsyo, Yoshi: *See—*
Akuta, Tomohiko; Honsyo, Yoshi; Hashirizaki, Sinya; Hiruma, Teruo; and Kurasawa, Kazuo, 3,678,192.
- Honzik, Richard A., to Northrop Corporation. Electron beam line scanner with transverse binary control. 3,701,922, 10-31-72, Cl. 315-10.000.
- Hood, Charles R.: *See—*
Close, Kenneth S.; Harm, Alson R.; and Hood, Charles R., 3,631,649.
- Hood, Clarence E.: *See—*
Webb, Byron K.; and Hood, Clarence E., 3,635,004.
- Hood, Edwin Elliott: *See—*
Frei, Karl; and Hood, Edwin Elliott, 3,675,740.
Frei, Karl; and Hood, Edwin Elliott, 3,675,741.
- Hood, Eugene B.: *See—*
Montgomery, William W.; and Hood, Eugene B., 3,707,150.
- Hood, Frederick E.; Davis, Harry T.; and Gemert, Lee Van, to Hood Sailmakers, Inc. Jib sail raising system. 3,658,025, 4-25-72, Cl. 114-105.
- Hood, Geoffrey Markham: *See—*
Harris, David Neil; Hood, Geoffrey Markham; and Sheller, Alan, 3,682,857.
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- Hood, Irvin D.: *See—*
Walkup, Norris W.; Mauck, James W.; and Hood, Irvin D., 3,631,584.
- Hood, James D.; and Stranch, James G., to Eastman Kodak Company. Non-cratering fusible polyester-cellulose ester coating composition. 3,654,198, 4-4-72, Cl. 260-16.
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Tohey, Hubert E.; Masiuk, Alphonse M.; Hood, John W.; and Irvin, Dee L., 3,669,165.
- Hood, Larry H., to Continental Oil Company. Deposition of aluminum on a galvanized surface. 3,652,321, 3-28-72, Cl. 117-50.
- Hood, Maxwell G., to Fowler Rex Pty. Limited. Centrifugal cement slurry mixer. 3,667,735, 6-6-72, Cl. 259-151.
- Hood, Robert B., to Fairchild Camera and Instrument Corporation. Zero crossing power line control system. 3,633,095, 1-4-72, Cl. 323-18.
- Hood Sailmakers, Inc.: *See—*
Davis, Harry T., 3,653,353.
- Hood, Frederick E.; Davis, Harry T.; and Gemert, Lee Van, 3,658,025.
- Hood Sponge Rubber Company: *See—*
Berwanger, John J., 3,654,061.
- Hoofnagle, Rodger A.: *See—*
Haynes, Harvey H.; Kahn, Lawrence F.; and Hoofnagle, Rodger A., 3,704,679.
- Hoogetboom, Theodorus: *See—*
Jonannes, Adrianus; and Hoogetboom, Theodorus, 3,687,119.
- Hoogenboom, Leo, to Mechanical Technology Incorporated. Power transducers. 3,657,581, 4-18-72, Cl. 310-8.2.
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- Hoogenhout, Klaas: *See—*
Schoots, Peter J.; Brugmans, Johannes Thomas; and Hoogenhout, Klaas, 3,702,053.
- Hoogovens Delfstoffen N.V.: *See—*
Moddermeijer, Jan H.; and Zijlstra, Dirk Jochum, 3,654,825.
- Hook, Corey T., Jr., to FMC Corporation. Method and apparatus for forming bags. 3,656,415, 4-18-72, Cl. 93-13.
- Hook, Melvin S., to Burns Machine Co. Manual override pressure operated switch. 3,676,619, 7-11-72, Cl. 200-81.00h.
- Hook, Richard Wayne: *See—*
Hunter, George Dwight; and Hook, Richard Wayne, 3,666,284.
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- Hook, Richard Wayne; and Zaun, Richard David, to Deere & Company. Root crop harvester. 3,695,360, 10-3-72, Cl. 171-58.000.
- Hook, William R.: *See—*
Dishington, Roland H.; and Hook, William R., 3,638,025.
- Hook, William R.; Hilberg, Ronald P.; and Dishington, Roland H., to TRW, Inc. Low-loss laser Q-switch. 3,694,769, 9-26-72, Cl. 331-94.500.
- Hooker Chemical Corporation: *See—*
Albrecht, Joachim; Hansen, Hans; Oppen, Dieter; Rausch, Werner; and Schiefer, Peter, 3,632,447.
Burden, Peter; and Whitton, Colin Alfred, 3,645,790.
Camilleri, Louis T.; and Forgiome, Anthony F., 3,706,710.
Campbell, Donald H.; and Liu, Chong-Tan, 3,681,209.
Carlson, Ronald H., 3,636,160.
Carlson, Ronald H., 3,655,573.
Carlson, Ronald H., 3,661,953.
Carlson, Ronald H., 3,661,960.
Carlson, Ronald H., 3,666,817.
Carlson, Ronald H., 3,677,956.
Carlson, Ronald H., 3,681,140.
Carr, Russell L. K.; and Baranaukas, Charles F., 3,700,695.
Dachs, Norman W.; and Gruber, Robert, 3,646,220.
Dachs, Norman W., 3,666,776.
Dannels, Bobby F.; and Shepard, Alvin F., 3,644,533.
Dannels, Bobby F.; and Shepard, Alvin F., 3,644,537.
Dannels, Bobby F.; and Shepard, Alvin F., 3,697,459.
Dever, James L.; and Hodan, James J., 3,632,690.
Dever, James L.; and Hodan, James J., 3,641,225.
Dever, James L.; and Hodan, James J., 3,661,841.
Dever, James L.; and Carlson, Richard D., 3,687,983.
Dittel, Friedrich; and Jorns, Peter, 3,674,699.
Dorfman, Edwin; and Emerson, William E., 3,637,628.
Dorfman, Edwin; and Emerson, William E., 3,637,629.
Dorfman, Edwin; and Emerson, William E., 3,637,630.
Dorfman, Edwin; and Emerson, William E., 3,644,300.
Dorfman, Edwin; Emerson, William E.; Bean, Claude T., Jr.; and Carr, Russell L. K., 3,669,941.
Dreifus, Harry, 3,694,171.
Emerson, William E., 3,684,534.
Emerson, William E.; and Dorfman, Edwin, 3,689,472.
Gallagher, William P., 3,650,708.
Geering, Emil J.; and Dachs, Norman W., 3,636,074.
Geering, Emil J.; and Stratton, George B., 3,646,083.
Geering, Emil J.; and Stratton, George B., 3,647,885.
Geering, Emil J.; Shatz, Malcolm H.; and Leon, Edward, 3,684,587.
Gelfand, Samuel, 3,655,765.
Gordon, Irving; Hodan, James J.; and Dever, James L., 3,646,173.
Grazen, Frank S.; Buike, Melvin L.; and Bryzinsky, Frank M., 3,658,751.
Greenbaum, Sheldon B.; Weil, Edward D.; and Newcomer, Jack S., 3,687,831.
Grotheer, Morris P.; and Peterson, John A., 3,632,444.
Grotheer, Morris P., 3,690,845.
Hacias, Kenneth J., 3,664,852.
Hindersinn, Raymond R.; and Ilardo, Charles S., 3,645,953.
Hindersinn, Raymond R., 3,645,971.
Hindersinn, Raymond R.; Hopkins, George C.; and Ilardo, Charles S., 3,689,456.
Hoch, Paul E., 3,661,998.
Hodan, James J.; and Schall, William L., 3,703,496.
Jaszka, Daniel J., 3,667,912.
Lee, Sung Ki, 3,647,757.
Lee, Sung Ki, 3,647,919.

- Lee, Sung Ki, 3,660,340.
- Lin, Kingso C.; Quinn, Edward J.; and MacKay, John K., 3,642,585.
- Lin, Kingso C., 3,650,914.
- Lin, Kingso C.; and Geering, Emil J., 3,655,423.
- Lin, Kingso Chingsung, 3,650,803.
- Lin, Kingso Chingsung, 3,650,911.
- Lin, Kingso Chingsung, 3,660,495.
- Lin, Kingso Chingsung, 3,673,285.
- Lin, Kingso Chingsung, 3,681,481.
- Lorin, Guy, 3,645,797.
- Mac Kay, John K., 3,666,637.
- Marciniak, Harry W., 3,666,617.
- Matsushima, Yasunobu; and Matsumura, Tamotsu, 3,632,452.
- Maund, John Keith; and Hands, Clifford Henry George, 3,677,720.
- Mawson, Desmond Leonard; and Malone, Bernard, 3,664,406.
- Miller, George T., 3,681,511.
- Miller, George T., 3,697,306.
- Miller, George T., 3,706,602.
- Minklei, Alfred O., 3,658,661.
- Murphy, Donald P., 3,663,447.
- Murphy, Donald P., 3,663,476.
- Murphy, Donald P., 3,671,465.
- Murphy, Donald P., 3,681,250.
- Peterson, John A.; and Marciniak, Harry W., 3,634,311.
- Peterson, John A.; and Ross, Albert H., 3,645,895.
- Peterson, John A., 3,655,335.
- Prahl, Walter H.; Eggert, Jay P.; Lederman, Sol J.; Scremin, Eric H.; and Ulrich, Albert C., 3,644,542.
- Prahl, Walter H.; and Lederman, Sol J., 3,673,262.
- Proctor, James Ernest; Paddock, Norman Lovelace; and Searle, Harold Trevor, 3,667,922.
- Quinn, Edward J.; and MacKay, John K., 3,642,584.
- Quinn, Edward J., 3,655,531.
- Rausch, Werner; Oei, Hans Young; and Moller, Siegfried, 3,671,332.
- Rosenberg, David D.; and Spinney, David U., 3,637,479.
- Russell, William S., 3,681,207.
- Shatz, Malcolm H.; and Leon, Edward, 3,697,331.
- Tideswell, Richard B.; and Stone, Jonathan A., 3,686,106.
- Tienber, Albert C., 3,650,880.
- Wagner, George, 3,695,924.
- Wagner, George M., 3,650,806.
- Wagner, George M.; and Vullo, William J., 3,672,818.
- Wagner, George M., 3,702,776.
- Weil, Edward D.; and Schlichting, Hans L., 3,639,487.
- Weil, Edward D.; and Smith, Keith J., 3,644,415.
- Weil, Edward D.; and Smith, Keith J., 3,644,416.
- Weil, Edward D., 3,651,129.
- Weil, Edward D., 3,655,618.
- Weil, Edward D.; Smith, Keith J.; and Geering, Emil J., 3,657,447.
- Weil, Edward D.; and Linder, Jerome, 3,668,242.
- Whitesell, George, 3,674,672.
- Witschard, Gilbert, 3,650,807.
- Hooker Chemical Corporation, *mesne*: *See—*
Lawrence, Willis Thompson, 3,653,429.
- Hooker, James Ray, to United States of America, Atomic Energy Commission. Nuclear fuel body and process for making same. 3,644,604, 2-22-72, Cl. 264-5.
- Hooker, John M., to General Electric Company. Fly's eye lens process. 3,704,511, 12-5-72, Cl. 29-592.000.
- Hooker, Leslie A.: *See—*
Vitche, Edward T.; Hooker, Leslie A.; and Lauder, Richard P., 3,636,605.
- Hooker, Marvin L., Jr.: *See—*
Rutherford, Kenneth R.; Hooker, Marvin L., Jr.; and Alibrandi, Joseph P., 3,671,866.
- Hooker, Richard, III, to Eastman Kodak Company. Fiber optics encoding-decoding apparatus and method of fabricating the same. 3,702,275, 11-7-72, Cl. 156-174.000.
- Hookings, Paul Henry Heathcote: *See—*
Sibakin, Jaroslav George; Roeder, Gordon Alan; and Hookings, Paul Henry Heathcote, 3,690,867.
- Hooper, Alan Thomas, to United Kingdom Atomic Energy Authority. Nuclear reactors. 3,658,645, 4-25-72, Cl. 176-61.
- Hooper, Bernard. Two-stroke engines. 3,641,987, 2-15-72, Cl. 123-71.
- Hooper, Clive Williams: *See—*
Key, Kenneth Andrew; and Hooper, Clive Williams, 3,656,291.
- Hooper, Felix E.: *See—*
Cutting, Arch E.; Owens, Carlos L.; Williams, Dewey H.; and Hooper, Felix E., 3,677,305.
- Hooper, George H. Tide-powered unit and floating platform utilizing same. 3,690,790, 9-12-72, Cl. 417-331.000.
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- Hooper, Robert C.: *See—*
Cunningham, James A.; Fuller, Clyde R.; Hooper, Robert C.; and Wakefield, Robert H., 3,654,526.
- Hooper, William Coggin, Jr., to Trunkline Gas Company. Method and apparatus for connecting a pipeline across an obstruction. 3,635,036, 1-18-72, Cl. 61-72.1.
- Hooper, William J., to Electrodynamic Gravity, Inc. Apparatus for generating motional electric field. 3,656,013, 4-11-72, Cl. 310-10.
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- Hoose, Werner: *See—*
Fricke, Wilhelm; and Hoose, Werner, 3,633,847.
- Hoover Ball and Bearing Company: *See—*
McMahon, Harold I.; and Niewulis, Albin J., 3,645,523.
Meyers, John S.; and Wolofski, Nicholas, 3,669,498.
Nichols, Dwight E., 3,651,537.
Rupert, Samuel J.; and Ziegler, William E., 3,640,667.
Rupert, Samuel J.; and Ziegler, William E., 3,665,063.
Slominski, Walter V., 3,665,529.
Slominski, Walter V.; Kitchen, John P.; and Mandusky, Jack C., 3,680,157.
Stephens, Dennis T.; and Flores, Peter, 3,702,676.
Wiese, Delmar R., 3,647,106.
Wolofski, Nicholas, 3,697,133.
Ziegler, William E., 3,675,521.
- Hoover Company, The: *See—*
Clausse, Georges Jean Louis-Marie, 3,701,063.
Dyer, Robert F., 3,676,890.
Knapp, Robert S., 3,703,777.
Oxel, Berton R., 3,635,371.
Smith, Anthony, 3,698,377.
Steele, Johathan Peter, 3,703,091.
- Hoover, Frank Kryder: *See—*
Burkhalter, Robert, Jr.; Heskett, Don Edward; and Hoover, Frank Kryder, 3,669,148.
Heskett, Don E.; Hoover, Frank Kryder; and Burkhalter, Robert, Jr., 3,675,777.
Heskett, Don Edward; Hoover, Frank Kryder; Burkhalter, Robert, Jr.; and Anderson, Douglas West, 3,685,659.
- Hoover, James M. (St. Chamond, Firminy, St. Etienne Jacob-Holtzer): *See—*
Arnett, Charles J.; and Hoover, James M. (St. Chamond, Firminy, St. Etienne Jacob-Holtzer), 3,650,154.
- Hoover, John R. E.: *See—*
Berges, David A.; Dunn, George L.; and Hoover, John R. E., 3,701,775.
Dunn, George L.; and Hoover, John R. E., 3,639,613.
Dunn, George L.; and Hoover, John R. E., 3,707,480.
- Hoover, Merwin F.: *See—*
Boothe, Jerry E.; Hoover, Merwin F.; and Schiegg, Dallas L., 3,678,110.
- Hoover, Merwin Frederick: *See—*
Varveri, Fannie S.; Julia, Robert J.; and Hoover, Merwin Frederick, 3,639,208.
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Dobinson, Bryan; Hope, Paul; and Winterbottom, Kenneth, 3,706,528.
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Hope, Henry E.; and Hope, Stephen F., 3,656,676.
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Unmuth, George Eugene; and Hopkins, Charles Howard, 3,632,540.
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Froning, Herman D., Jr.; Hopkins, Dean F.; and Klevatt, Paul L., 3,637,167.
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Foltz, Thomas R.; Hegarty, Gerald R.; Hopkins, Ervin W.; and Wilcox, Joseph C., 3,696,662.
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Hopkins, John P., 3,706,125.
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Braun, Richard E.; Hopkins, Lionel G.; Sheehan, Neil J.; and Sanchez, Edward J., 3,678,576.
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Melamed, Nathan T.; Roland, George W.; and Hopkins, Richard H., 3,659,221.
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Roland, George W.; Hopkins, Richard H.; and Melamed, Nathan T., 3,686,586.
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Huhn, Helmut; and Hoppe, Lutz, 3,692,748.
- Hopper, Inc.: *See—*
Suverkrop, Don, 3,685,668.
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Shelton, James R.; and Hopper, Roger J., 3,678,017.
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Seyferth, Dietmar; Hopper, Steven P.; and Darragh, Kird V., 3,694,477.
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Doctoroff, Michael; Hoppert, Bernt D.; and Lecce, Steven H., 3,645,600.
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Clark, Kenneth William; and Hopton, Reginald Frank, 3,651,583.
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Barochovsky, Antonin; Horacek, Ladislav; Krulik, Zdenek; Snitily, Miloslav; Stancel, Frantisek; and Wilfert, Milos, 3,659,410.
- Horacek, Peter: *See—*
Crabtree, Ronald; and Horacek, Peter, 3,674,252.
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Siclar, Francesco; Horak, Edgardo; and Rosso, Mario, 3,682,864.
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Gauzza, Harry J.; and Horanoff, Eugene V., 3,695,556.
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Horbach, Edwin, 3,680,645.
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Horbach, Edwin, 3,680,645.
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Horbach, Edwin, 3,680,645.
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Hobrough, Gilbert L.; and Wood, George A., 3,687,547.
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Barozzi, Gian Piero; and Horeschi, Giancarlo, 3,703,986.
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Albrecht, William L.; Fleming, Robert W.; and Horgan, Stephen W., 3,673,191.
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Fogle, Mark V.; and Horger, Georg, 3,697,437.
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Nakagawa, Takashi; Tsutsumi, Tadashi; and Hori, Hiroo, 3,670,213.
- Hori, Hiroshi: *See—*
Kobayashi, Sakae; Hori, Hiroshi; and Matsunaga, Toshio, 3,695,527.
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Shioda, Hirohisa; Namiki, Isamu; Hori, Hisako; and Katsuyama, Yoshihisa, 3,639,483.
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Fukushima, Takaaki; Takizawa, Haruki; Hori, Kikuo; Sato, Yoshito; and Mizumori, Haruhiko, 3,671,623.
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Takezawa, Isao; Muto, Masataro; and Hori, Koichi, 3,675,606.
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Otsuki, Susumu; Hori, Kyoichi; and Miyanoara, Isao, 3,674,651.
Wakiyama, Satoshi; and Hori, Kyoichi, 3,689,582.
- Hori, Masao: *See—*
Ando, Masao; and Hori, Masao, 3,678,243.
- Hori, Mikio: *See—*
Fujimura, Hajime; Hori, Mikio; Masuda, Toru; Sawa, Yoichi; and Kato, Takeshi, 3,686,167.
- Hori, Ryoichi: *See—*
Kubo, Masaharu; Hori, Ryoichi; and Nagata, Minoru, 3,703,710.
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Saikawa, Isamu; Matubara, Yasumasa; and Hori, Takako, 3,694,436.
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Ishida, Moriyoichi; Hori, Terutsugu; Otsuka, Yuzuru; Sato, Kunimitsu; Inoue, Katsuyuki; and Ogata, Yoshio, 3,702,341.
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Naya, Mikio; Yamaguchi, Haruki; and Horie, Izumi, 3,672,217.
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Terai, Shiro; Suzuki, Toshio; Hasegawa, Yoshihumi; Horiguchi, Shojiro; Nakamura, Michiei; Kimata, Shizuo; and Suzuki, Tadanobu, 3,671,476.
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Takahashi, Shiro; and Horiguchi, Tadao, 3,702,135.
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Hosokawa, Tomoyuki; Wada, Chuzo; and Horii, Hiroshi, 3,638,091.
- Horii, Kazuo: *See*—
Ueoka, Hisayoshi; Horii, Kazuo; and Umeya, Kazumasa, 3,673,119.
- Ueoka, Hisayoshi; Horii, Kazuo; Umeya, Kazumasa; and Maruyama, Syunsuke, 3,704,266.
- Horii, Stoshi: *See*—
Miyake, Akira; Horii, Stoshi; and Ueyanagi, Jisaburo, 3,678,160.
- Horiike, Minoru: *See*—
Matsushita, Shigenori; Sato, Fumitaka; Chujo, Hisao; and Horiike, Minoru, 3,683,360.
- Horikawa, Hideichi: *See*—
Katayama, Shitomi; and Horikawa, Hideichi, 3,640,971.
- Horikawa, Noboru R.: *See*—
Sams, Robert H.; Linton, Robert W.; and Horikawa, Noboru R., 3,679,610.
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Nakayama, Toshio; and Horikawa, Shoichi, 3,652,247.
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- Horikawa, Yoshikazu: *See*—
Ogi, Hideo; Ozaki, Haruo; Mishiro, Masaru; Horikawa, Yoshikazu; and Mori, Shunji, 3,646,772.
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Taneda, Yasuo; Naka, Kiyomi; and Horiike, Akihiro, 3,695,877.
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Koda, Ken'ichi; Kikuchi, Shoji; Wada, Tsuneo; Kuwabara, Yoshimi; Horiokoshi, Akira; Tanimura, Kensaku; and Sugita, Sadao, 3,704,128.
- Horin, Shoji: *See*—
Arai, Haruhiko; and Horin, Shoji, 3,684,749.
- Horin, Shoji: *See*—
Maruta, Iwao; Arai, Haruhiko; and Horin, Shoji, 3,668,170.
- Horinaka, Ryoji: *See*—
Nakahara, Yasuji; Ohmura, Jukichi; and Horinaka, Ryoji, 3,666,708.
- Horino, Masao: *See*—
Takauchi, Minoru, 3,659,262.
- Horisaka, Kazuyoshi: *See*—
Tsuno, Shigeru; Horisaka, Kazuyoshi; Yamaguchi, Akiyuki; Adachi, Kikuo; and Umezawa, Osamu, 3,658,966.
- Horiuchi, Fukashi: *See*—
Fujinami, Akira; Horiuchi, Fukashi; Nodera, Katsuji; Ozaki, Toshiaki; Yamamoto, Sigeo; and Oishi, Tadashi, 3,636,044.
- Fujinami, Akira; Ozaki, Toshiaki; Horiuchi, Fukashi; Yamamoto, Sigeo; Akiba, Keiichi; Tanaka, Katsutoshi; Ooba, Shigehiro; Oishi, Tadashi; Nodera, Katsuji; and Kameda, Nobuyuki, 3,668,217.
- Matsui, Masanao; and Horiuchi, Fukashi, 3,666,798.
- Sato, Katsumi; Nakamura, Takashi; Nakamura, Masaru; Hirakawa, Kazuo; Hamada, Mitsuo; Takahashi, Kenji; Yashima, Masaki; Ozaki, Toshiaki; Yamamoto, Sigeo; Oishi, Tadashi; Fujinami, Akira; Horiuchi, Fukashi; and Nodera, Katsuji, 3,703,526.
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Oshima, Keiji; Yamada, Shozo; Sakurai, Fujio; Iwasa, Yoshisuke; Horiuchi, Koichi; Uchida, Unosuke; Nomura, Teruhiko; and Tominaga, Yasushi, 3,699,203.
- Horiuchi, Michio: *See*—
Matsumaga, Kenji; Horiuchi, Michio; and Suzuki, Takao, 3,685,413.
- Matsunaga, Kenji; and Horiuchi, Michio, 3,682,064.
- Horiuchi, Tatsuo: *See*—
Matsui, Isamu; Nagasawa, Isao; Horiuchi, Tatsuo; Uchida, Hiroshi; and Uehara, Masao, 3,687,382.
- Horiuchi, Toshiaki: *See*—
Takahashi, Sankichi; Otake, Katsumoto; and Horiuchi, Toshiaki, 3,707,442.
- Horiuchi, Yoshikazu: *See*—
Ohyama, Yasushi; Futaki, Kiyoshi; Tosa, Senji; Horiuchi, Yoshikazu; and Takemura, Akira, 3,666,471.
- Horix Manufacturing Company: *See*—
Waxlax, Chester E., 3,698,452.
- Horizon Industries Ltd.: *See*—
Engelsner, Harvey J., 3,694,845.
- Horizons Incorporated: *See*—
Fotland, Richard A.; Straughan, Virgil E.; and Cameron, John, 3,658,533.
- Lewis, James M.; and Shirey, John E., 3,697,276.
- Ramins, Lothar, 3,697,272.
- Reynard, Kennard A.; and Rose, Selwyn H., 3,700,629.
- Rose, Selwyn H.; and Reynard, Kennard A., 3,702,833.
- Wainer, Eugene, 3,647,422.
- Wainer, Eugene; Petro, Victor P.; Fox, Robert D.; Shirey, John E.; and Smerillo, John A., 3,660,096.
- Wainer, Eugene, 3,706,673.
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Perry, John E., 3,697,257.
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Scherer, Otto; and Horlein, Gerhard, 3,660,436.
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Lindstrom, Oscar H.; and Fischer, Nathan A., 3,659,639.
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Claxton, Gerald L.; and Horn, Darrell C., 3,667,201.
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Horn, Fordyce H., 3,634,150.
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Robinson, John C.; and Horn, Myron K., 3,691,384.
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Cassidy, Glenn; Hartman, Donald A.; Hentz, Lyle J.; and Horn, William D., 3,702,952.
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Grider, Lyle D.; Hornagold, John T.; and Rathi, Ram N., 3,686,862.
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Copley, Stephen M.; Giamei, Anthony F.; Hornbecker, Merton F.; and Kear, Bernard H., 3,690,368.
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Dunn, John Malcolm; and Hornbrook, George Kenneth, 3,696,373.
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Hartz, Norman; and Horne, Bruce K., 3,636,479.
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Gulbenk, Aylin H.; Horne, Dorothy J.; and Johnston, Howard, 3,663,543.
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Smith, Francis Rawdon; and Horne, John E., 3,677,554.
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Holcombe, Cressie E., Jr.; and Horne, Ottis J., Jr., 3,660,031.
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Carlson, Earl J.; and Horne, Samuel E., Jr., 3,657,209.
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Elbert, Donald L.; Findlay, Hugh T.; and Horne, William H., 3,682,683.
- Horne-Boatright Chemical Company, Inc.: *See*—
Horne, Victor A., Jr.; and Bradley, Lawrence D., 3,704,671.
- Horneff, Hans: *See*—
Becker, Werner; and Horneff, Hans, 3,637,920.
- Brembach, Burkart; Eisinger, Alfred; Horneff, Hans; and Zahn, Heinrich, 3,660,595.
- Horner, Edmund E.: *See*—
Grunwald, John J.; and Horner, Edmund E., 3,634,262.
- Grunwald, John J.; and Horner, Edmund E., 3,657,023.
- Horner, Jack E.; and Lanier, Jack K. Reciprocating motor with magnetic drive means. 3,636,391, 1-18-72, Cl. 310-24.
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Hornig, Lothar Heinz; Neu, Hermann; and Probst, Otto, 3,642,885.
- Hornig, Anneliese, nec Muni: *See*—
Arpe, Hans-Jürgen; and Hornig, Lothar Heinz, 3,642,875.
- Hornig, Anneliese, nec Munich: *See*—
Hornig, Lothar Heinz; and Arpe, Hans-Jürgen, 3,687,993.
- Krekeler, Hans; Meidert, Helmut; Riemenschneider, Wilhelm; and Hornig, Lothar Heinz, 3,676,508.
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Keberle, Wolfgang; Hornig, Heinz; and Sinn, Gustav, 3,686,387.
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Boldt, Manfred; Arpe, Hans-Jürgen; and Hornig, Lothar, 3,644,486.
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Arpe, Hans-Jürgen; and Hornig, Lothar Heinz, 3,642,875.
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Levy, Edward F.; Karlson, Roy H.; and Hornig, Ursula E., 3,638,327.
- Horning, Frederick G.: *See*—
Young, William G.; and Horning, Frederick G., 3,663,062.
- Horning, James Leroy: *See*—
Callender, Jack E.; Halbedel, Don Edward; Bagwell, Benjamin J.; Horning, James Leroy; Lissakers, Erik Axel; Long, Joseph Harold; and Schweitzer, Cameron C., 3,702,381.
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- Hornle, Reinhold: *See*—
Wolf, Karlheinz; Haus, Artur; Hornle, Reinhold; and Mager, Theodor, 3,653,936.
- Hornor, Eugene M.; and Hyde, William J., to Western Electric Company, Incorporated. High-frequency cables. 3,651,243, 3-21-72, Cl. 174-34.
- Hornreich, Richard M.: *See*—
Franklin, Dennis M.; Hornreich, Richard M.; and Rubinstein, Harvey, 3,701,983.
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Horn, Herbert, 3,656,969.
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Freedman, Paul; Freedman, Gerald; Wahls, Robert A.; and Hornstein, Harvey R., 3,652,127.
- Hornstein, Harvy R.: *See*—

- Freedman, Paul; Freedman, Gerald; Wahls, Robert A.; and Hornstein, Harvy R., 3,680,915.
- Hornstein, Herbert, to Feldmuhle Aktiengesellschaft. Shrink-on packaging for motor vehicles. 3,653,497, 4-4-72, Cl. 206-46.
- Hornung, Elmer H.: *See—*
- Toedtman, John A.; and Hornung, Elmer H., 3,688,246.
- Hornung, Gerhard, to Justus Reiker & Co. Ski boot or shoe. 3,686,778, 8-29-72, Cl. 36-2.5a1.
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- Hornung, Karl-Heinz: *See—*
- Riemhofer, Franz; Dittmann, Walter; Hornung, Karl-Heinz; and Schutze, Ernst-Christian, 3,668,275.
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- Hornung, Louis M.: *See—*
- Davis, William H.; Hornung, Louis M.; Lindsey, Royce D.; and Tanner, Howard C., 3,647,041.
- Hornung, Louis Michael, to International Business Machines Corporation. Working device code method of I/O control. 3,668,651, 6-6-72, Cl. 340-172.5.
- Hornung, Stephen A.: *See—*
- Stichweh, James H.; Hornung, Stephen A.; and Duckwall, Paul, III, 3,645,361.
- Stichweh, James H.; Hornung, Stephen A.; and Duckwall, Paul, III, 3,665,223.
- Horodysky, Andrew G.: *See—*
- Garrison, George H.; Horodysky, Andrew G.; and Philips, Howard E., 3,651,150.
- Horodysky, Andrew G., to Mobil Oil Corporation. Process for preparing overbased zinc phosphorodithioates. 3,691,220, 9-12-72, Cl. 260-429.900.
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- Horoszko, Jan: *See—*
- Kedzior, Andrzej; Horoszko, Jan; Olszowski, Tadeusz; Romaniec, Edward; and Zaremba, Stanislaw, 3,682,448.
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- Horowitz, Donald J., to Lockheed Aircraft Corporation. Optical probe. 3,670,426, 6-20-72, Cl. 35-12.00n.
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- Horowitz, Raymond H.: *See—*
- Hillman, Juanita J.; and Horowitz, Raymond H., 3,671,516.
- Woo, Jung Woo; Waters, Paul F.; Horowitz, Raymond H.; and Hadermann, Albert F., 3,662,046.
- Horowitz, Robert R., to S & H Industries, Inc. Power-operated tailgate with maximum rearward displacement between fully elevated and fully lowered positions. 3,637,097, 1-25-72, Cl. 214-771.
- Horr, William A.: *See—*
- Piatek, Edward Walter; and Horr, William A., 3,699,828.
- Horres, Eugene S. Eye contact lens manipulator. 3,645,576, 2-29-72, Cl. 294-1.
- Horrobin, Gerald V.; Hutton, John F.; and Knowles, Peter M., to Beakbane, Henry (Fortox) Limited. Couplings. 3,642,309, 2-15-72, Cl. 285-226.
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- Horse, Edgar T., 3,633,432.
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- Koerner, Harry E.; and Horse, William C., 3,707,630.
- Horsfall, Geoffrey D. S.: *See—*
- Pulman, Prockter T.; and Horsfall, Geoffrey D. S., 3,645,236.
- Pulman, Prockter T.; and Horsfall, Geoffrey D. S., 3,658,445.
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- Horsley, Edward A., to Dominion Bridge Company, Limited. Molded nylon master switch with improved pivoted cam operator. 3,657,493, 4-18-72, Cl. 200-6.
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- Horsley, Lee H.: *See—*
- Seeburger, Harold O.; and Horsley, Lee H., 3,655,522.
- Seeburger, Harold O.; and Horsley, Lee H., 3,655,523.
- Horsley, Orville E.: *See—*
- Meyer, Ronald J.; Horsley, Orville E.; and Eichel, Herman J., 3,663,703.
- Meyer, Ronald J.; Horsley, Orville E.; and Eichel, Herman J., 3,676,559.
- Meyer, Ronald J.; Horsley, Orville E.; and Eichel, Herman J., 3,692,914.
- Horsman Dolls, Inc.: *See—*
- Kosicki, Witold W.; and Hollingsworth, Charles M., 3,638,351.
- Horsman, Larry R.: *See—*
- Capowski, Robert S.; Unterberger, Robert M.; and Horsman, Larry R., 3,699,530.
- Horst, Heinz: *See—*
- Kampf-Emden, Gerd; Horst, Heinz; and Klapdohr, Friedrich, 3,643,999.
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- Horstman, Gilbert F. Centrifugal clutch. 3,680,674, 8-1-72, Cl. 192-105.00a.
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- Dee, Colin W., 3,685,875.
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Imada, Osamu; Hoshiai, Kazuo; and Tanaka, Masatami, 3,645,846.
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Sakai, Hiroshi; Izumi, Zenji; Kitagawa, Hideji; Mamada, Satoshi; and Hoshina, Masakuni, 3,660,527.
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Sato, Sanro, 3,636,945.
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Mizobuchi, Yasuo; and Hoshino, Isao, 3,668,635.
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Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, 3,647,552.
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Suzuki, Munchiko; Hosokawa, Etsuo; and Waki, Misao, 3,634,304.
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Hiraga, Hisao; Ito, Syunichi; Inoue, Keitaro; and Hosoya, Hidenharu, 3,632,366.
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Lombardi, Frank G.; and Hostattler, Fritz, 3,663,511.
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Hinks, William L.; and Hosterman, Harry L., 3,696,655.
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Muto, Masataro; Yagasaki, Masaaki; and Hosumi, Ken, 3,633,896.
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Devore, Ernest W.; and Hotaling, Kenneth L., 3,643,135.
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Hotchkiss, John E., 3,638,643.
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Robbins, Neal R.; Ring, Howard Daniel; Wright, Gerard C.; Ceelen, Theodore M.; and Hotchkiss, Stuart E., 3,686,678.
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Blanchet, James P.; Hotes, Charles M.; and Reynolds, Thomas J., 3,669,329.
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Taniguchi, Kenji; Imaizumi, Ichiro; and Hotta, Atsuo, 3,657,575.
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Takasu, Haru; Higuchi, Masaru; and Hotta, Hiroshi, 3,665,015.
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Hori, Toshio; Hotta, Junichi; Kiyoshi, Mabuchi; and Nakajima, Yoshio, 3,634,377.
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Kenmochi, Hirohito; Hotta, Seiji; and Akamatsu, Takashi, 3,632,611.

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Surash, John J.; Giorgianni, Edward J.; and Hotter, Lynn R., 3,647,461.
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Gasser, Hermann; and Hotz, Hansruedi, 3,701,182.
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Ciegler, Alex; and Hou, Ching Tsang, 3,666,630.
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Canonic, Domenic A.; Cole, Nancy C.; and Houck, Clarence W., 3,673,038.
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Bonner, Charles W., Jr.; and Houck, Curtis T., 3,696,817.
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Ballantyne, Jack R.; and Houck, Melvin E., 3,705,402.
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- Houdaille Industries, Inc.: *See—*
Barber, Joseph J., 3,675,107.
Barmasse, Edmund E., 3,688,878.
Baturka, Walter, 3,652,100.
Cady, Percy L., Jr., 3,670,610.
Eggert, Glenn J., 3,691,580.
Greeley, Anthony P., 3,641,839.
Hall, Jeffrey, 3,707,031.
Hammond, Earl J., 3,672,691.
King, John L., Jr., 3,649,129.
King, John L., Jr.; and Koch, Roland G., 3,663,028.
Koch, Roland G.; and King, John L., Jr., 3,658,352.
Krynitzky, Alexander; Schott, Arthur K.; and Hoffmann, Otto, 3,656,392.
McLean, Ronald L., 3,640,149.
Roberts, Robert D., 3,652,873.
Roberts, Robert D., 3,674,112.
Roberts, Robert D., 3,707,203.
- Rumsey, Rollin Douglas, 3,631,761.
- Rumsey, Rollin Douglas, 3,702,202.
- Schober, Thomas G., 3,673,393.
- Schultz, John Clayton, 3,663,124.
- Slawson, Kenneth Leonard, 3,634,662.
- Slawson, Kenneth Leonard, 3,689,821.
- Houdin, Henri; and Perzo, Rene. Elevated reservoir for use with offshore oil wells. 3,648,466, 3-14-72, Cl. 61-46.
- Hougen, Everett D. Hole saw. 3,648,508, 3-14-72, Cl. 72-325.
- Hougen, Kenneth O. Vacuum actuated automatic transfer device. 3,640,319, 2-8-72, Cl. 141-42.
- Hougen, Leif Reidar; and Stensholt, Erling Olav, to Falcenbridge Nickel Mines, Limited. High purity nickel product. 3,684,481, 8-15-72, Cl. 75-5ba.
- Hough, Douglas Gordon: *See—*
Lasko, John Jay; and Hough, Douglas Gordon, 3,701,563.
- Hough, Harold L.: *See—*
Coombs, Peter M.; and Hough, Harold L., 3,666,180.
- Hough, Hoscason & Company, Limited: *See—*
Harris, Colin; and Meacham, Eric Richard, 3,694,366.
- Hough Manufacturing Corporation: *See—*
Howes, Edward P.; and Gillham, John A., 3,638,376.
- Hough, Robert J., to Oberg Manufacturing Company, Inc. Method of making hose clamps. 3,691,601, 9-19-72, Cl. 29-150.000.
- Hough, William D., to Leisign Engineering Company, Inc. Gutter and water supply system for swimming pools. 3,641,594, 2-15-72, Cl. 4-172.17.
- Hough, William T. Vessel having an osmotic membrane as an enclosing part thereof. 3,696,931, 10-10-72, Cl. 210-244.000.
- Hough, William T. Solvent extraction into comestible solute. 3,702,820, 11-14-72, Cl. 210-22.000.
- Houghtalen, Howard G.: *See—*
Angelo, Raymond W.; and Houghtalen, Howard G., 3,635,454.
- Houghton, Frank A.; and Yesowich, Thomas N., to Burroughs Corporation. Record card reader, feeder and transport device. 3,680,853, 8-1-72, Cl. 271-3.000.
- Houghton, George E.; and Dixit, Sudhakar G., to Garlock Inc. Fibrous graphite packing. 3,646,846, 3-7-72, Cl. 87-1.
- Houghton, Graham K.; and Humphreys, Wendell L. Counterweight bag tensioning device. 3,683,595, 8-15-72, Cl. 55-302.000.
- Houghton, James: *See—*
Nicklin, Thomas; Farrington, Frederick; and Houghton, James, 3,639,648.
- Houghton, Larry R., to Whirlpool Corporation. TV remote control system. 3,678,392, 7-18-72, Cl. 325-392.000.
- Houghton, Leonard E.: *See—*
Pettit, George R.; Houghton, Leonard E.; Knight, John C.; and Bruschweiler, Fred, 3,687,944.
- Houghton, Lionel, to Mego International, Inc. Growing hair doll. 3,694,957, 10-3-72, Cl. 46-135.000.
- Houghton, Richard A.: *See—*
Gluth, Norman P.; and Houghton, Richard A., 3,697,699.
- Houk, Charles R.: *See—*
Godley, Augustus P.; Fuller, Francis M.; Houk, Charles R.; Holland, Henry A.; Nelson; and Gendron, George J., 3,641,775.
- Houk, William J., to Ranco Incorporated. Air damper control for refrigerators. 3,645,108, 2-29-72, Cl. 62-187.
- Houldcroft, Peter Thomas; and Sullivan, Arthur Basil Joseph, to National Research Development Corporation. Thermal cutting apparatus. 3,679,863, 7-25-72, Cl. 219-121.0lm.
- Houle, Conrad G.; and Masseth, Thomas J., to Eastman Kodak Company. Sensitized pyrylium photobleachable dye in gelatin. 3,671,251, 6-20-72, Cl. 96-89.000.
- Houle, Guy J., to Hebert, Maurice E. Water propelling means for vehicles. 3,688,731, 9-5-72, Cl. 115-1.00r.
- Houle, James F.; and VanNorman, Gilden R., to Eastman Kodak Company. Color proofing system. 3,634,087, 1-11-72, Cl. 96-49.
- Houle, James F.; and Van Norman, Gilden R., to Eastman Kodak Company. Coated article having a layer of boehmite and alkyl titanate. 3,694,251, 9-26-72, Cl. 117-62.000.
- Houlihan, William J.: *See—*
Anderson, Paul L.; Houlihan, William J.; and Manning, Robert E., 3,637,690.
Anderson, Paul L.; Houlihan, William J.; and Manning, Robert E., 3,706,744.
Cooke, George A.; Dugger, Harry A.; and Houlihan, William J., 3,657,268.
Cooke, George A.; and Houlihan, William J., 3,686,178.
Eberle, Marcel K.; and Houlihan, William J., 3,632,604.
Eberle, Marcel K.; and Houlihan, William J., 3,682,897.
Eberle, Marcel K.; and Houlihan, William J., 3,699,119.
Habeck, Dietmar A.; and Houlihan, William J., 3,660,402.
Houlihan, William J., to Sandoz-Wander, Inc. Alpha-(tertiary aminomethyl)-phenyl-alpha pyridyl or c-piperidyl-benzyl alcohols. 3,635,967, 1-18-72, Cl. 260-247.5.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 1,2,3,4,6,7-Hexahydro-11b-benzo[a] quinolizines. 3,635,984, 1-18-72, Cl. 260-286.
Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Tetrahydroisoquinoline-2 carboxamides. 3,637,709, 1-25-72, Cl. 260-287.

- Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Substituted benzylideneamino guanidines. 3,637,849, 1-25-72, Cl. 260-564.
- Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Substituted benzylideneamino guanidines. 3,637,850, 1-25-72, Cl. 260-564.
- Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 3-alkyl benzazones. 3,642,777, 2-15-72, Cl. 260-239.
- Houlihan, William J.; and Eberle, Marcel K., to Sandoz-Wander, Inc. Substituted tetrazoloisindoles. 3,642,814, 2-15-72, Cl. 260-308.
- Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Isoindolo[1,2-a] isoquinoline-8-ones. 3,644,369, 2-22-72, Cl. 260-289.
- Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Isoindolo[1,2-a] isoquinolines. 3,644,370, 2-22-72, Cl. 260-289.
- Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 2,5-Benzodiazonin-3-ones. 3,655,648, 4-11-72, Cl. 260-239.
- Houlihan, William J., to Sandoz-Wander, Inc. Octahydropyridazino [1,2-a] pyridazines. 3,657,239, 4-18-72, Cl. 260-250.
- Houlihan, William J., to Sandoz-Wander, Inc. 2,6-substituted-4,5-dihydropyridazin(2H)-3-ones and 1,3-substituted hexahydropyridazines. 3,657,242, 4-18-72, Cl. 260-250.
- Houlihan, William J., to Sandoz-Wander, Inc. Imidazo [2,1-a] isoindoles. 3,657,269, 4-18-72, Cl. 260-309.6.
- Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Benzylideneamino guanidines. 3,657,337, 4-18-72, Cl. 260-551.
- Houlihan, William J., to Sandoz-Wander, Inc. 2-(γ -Chloroalkyl)-6-aryl substituted-4,5-dihydropyridazin (2H)-3-one. 3,658,814, 4-25-72, Cl. 260-250.
- Houlihan, William J.; and Nadelson, Jeffrey, to Sandoz-Wander, Inc. 5-(Substituted-benzyl)-dibenzol[a,d]cycloheptenes. 3,661,910, 5-9-72, Cl. 260-268.
- Houlihan, William J., to Sandoz-Wander, Inc. 1,5-Diazacyclononanes. 3,663,536, 5-16-72, Cl. 260-239.
- Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 2,3,5,6-Tetrahydroimidazo[2,1-b]thiazoles. 3,671,533, 6-20-72, Cl. 260-306.700.
- Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 6,6-Di-lower alkyl-2,3,5,6-tetrahydroimidazo [2,1-b] thiazoles. 3,671,534, 6-20-72, Cl. 260-306.700.
- Houlihan, William J., to Sandoz-Wander, Inc. Dichloro trifluoromethyl phenyl lithium. 3,674,882, 7-4-72, Cl. 260-665.00r.
- Houlihan, William J., to Sandoz-Wander, Inc. Dialkylaminomethylphenyl benzyl alcohols. 3,678,111, 7-18-72, Cl. 260-570.000.
- Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Secondaryamino pyridazines. 3,683,085, 8-8-72, Cl. 424-250.000.
- Houlihan, William J.; and Manning, Robert E. Substituted thiazolo[3,2-a] pyrimidines. 3,686,173, 8-22-72, Cl. 260-251.00a.
- Houlihan, William J.; and Nadelson, Jeffrey. Substituted isochroman or phthalan piperidines. 3,686,186, 8-22-72, Cl. 260-293.580.
- Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 1-Hydroxy-isoindol-3-ones. 3,686,207, 8-22-72, Cl. 260-325.000.
- Houlihan, William J.; and Nadelson, Jeffrey. Substituted dibenz [a,h] azulones and 8-(oxa or thia) substituted dibenz [a,h] azulones. 3,687,975, 8-29-72, Cl. 260-327.00b.
- Houlihan, William J. Substituted tetrahydro-1H-pyrazolo [1,2-b] phthalazines. 3,694,442, 9-26-72, Cl. 260-250.00a.
- Houlihan, William J.; and Nadelson, Jeffrey. 5-(Substituted-benzyl)-benzocycloheptenes and -1-benzothiepinines. 3,694,446, 9-26-72, Cl. 260-268.00c.
- Hoult, David Parks: See—
Cross, Ralph Herbert, III, 3,706,382.
- Hoult, J. A., Enterprises Limited: See—
Hoult, John A., 3,702,702.
- Hoult, John A., to Hoult, J. A., Enterprises Limited. Lacrosse stick. 3,702,702, 11-14-72, Cl. 273-96.00d.
- Hoult, Raymond Oliver, to Coal Industry (Patents) Limited. Apparatus for rinsing small particulate material. 3,706,416, 12-19-72, Cl. 239-193.000.
- Hounshell, James R.; and Pringle, William L., to Pullman Incorporated. Flexible movable enclosure for vehicles. 3,677,197, 7-18-72, Cl. 105-378.000.
- Houot, Jean-Jacques; Pelissier, Yves; and Durand, Jean-Francois, to Etablissement public a caractere industriel et commercial dite: Entreprise de Recherches et d'Activites Petrolieries (ELF). Sealing-tight, controlled-friction connecting device between two ipe elements. 3,645,565, 2-29-72, Cl. 285-18.
- House, Bruce F., to Shelley Manufacturing Company. Plural stack dispenser having common actuation for stacks. 3,640,427, 2-8-72, Cl. 221-127.
- House, Bruce F., to Shelley Manufacturing Company. Operating apparatus for cart. 3,701,396, 10-31-72, Cl. 188-21.000.
- House, Chas. W., & Sons, Incorporated: See—
Tranfield, George, 3,684,284.
- House, John I. Rearview mirror. 3,702,535, 11-14-72, Cl. 60-54.50r.
- House, Ralph: See—
Danzik, Mitchell; and House, Ralph, 3,697,573.
- House, Robert L. Tunnel boring apparatus. 3,672,726, 6-27-72, Cl. 299-31.000.
- House, Ronald Raymond, to American Cyanamid Company. Ceiling tile carrying anti-sag coating. 3,655,431, 4-11-72, Cl. 117-126.
- House, Ronalee, to General Motors Corporation. Three position pivotal switch with improved spring biased joystick actuator and contact. 3,679,847, 7-25-72, Cl. 200-6.00a.
- House, William R.: See—
Glass, Robert I.; Phillips, William; and House, William R., 3,695,125.
- House, William T.: See—
Adams, Clark E.; and House, William T., 3,668,116.
- Houšeknecht, Theodore M., to Fuller Company. Shrinkage compensating cement. 3,649,317, 3-14-72, Cl. 106-90.
- Houseman, John, to Hercules Incorporated, mesne. Solids arc reactors apparatus and method. 3,668,108, 6-6-72, Cl. 204-323.000.
- Houseman, Paul S.: See—
Hickner, George B.; Howard, Donald W.; Houseman, Paul S.; and Carp, Ralph W., 3,704,043.
- Houser, F. Douglass: See—
Hartley, Richard S.; Churley, George; and Houser, F. Douglass, 3,695,171.
- Houser, Franklin Douglass.: See—
Hartley, Richard S.; and Houser, Franklin Douglass., 3,672,420.
- Houser, George G.; and Jenkins, Robert E., to International Business Machines Corporation. Data processor and compactor therefor. 3,680,103, 7-25-72, Cl. 343-17.10r.
- Houser, Philip H., to Mead Corporation, The. Inlet plate for a coating head. 3,645,448, 2-29-72, Cl. 239-15.
- Houser, Philip H., to Mead Corporation, The. Coating head sub-assembly with clean out port. 3,647,138, 3-7-72, Cl. 239-104.
- Houser, Philip H., to Mead Corporation, The. Drop generator with rotatable transducer. 3,701,476, 10-31-72, Cl. 239-102.000.
- Housholder, William R.: See—
Gammill, Adrian Monroe; Guinn, Franklin Keith; Bird, Urban S.; and Housholder, William R., 3,667,423.
- Housley, John Rosindale: See—
Oxley, Peter; and Housley, John Rosindale, 3,639,434.
- Housman, Earl R.: See—
Hale, David A.; and Housman, Earl R., 3,656,102.
- Housman, William A. Card and verification system having card voiding element. 3,641,499, 2-8-72, Cl. 340-149.
- Houst, Douglas R.: See—
Mason, William B.; and Houst, Douglas R., 3,649,896.
- Houston Gamma Ray Company: See—
Ketchbaw, Thomas E.; Foster, Robert D.; and Arvanetakis, Kiriako, 3,691,385.
- Houston, George Porter, Jr., to Bendix Corporation, The. Mechanical raster scanner means using fiber optics for pattern recognition or display. 3,636,365, 1-18-72, Cl. 250-227.
- Houston, Herbert James; Baird, Robert Gordon; Bolt, Kenneth Dale; and Gretziager, Adolf, to Slater, N., Company; division of Slater Steel Industries Limited. Clamping assembly for aerially suspended cables. 3,633,858, 1-11-72, Cl. 248-63.
- Houston, Jack W. Umbrella folding assembly. 3,680,571, 8-1-72, Cl. 135-22.000.
- Houston, Jack W. Foldable umbrella. 3,692,035, 9-19-72, Cl. 135-25.000.
- Houston, James. Toilet for household pets. 3,656,457, 4-18-72, Cl. 119-1.
- Houston, John B., to Burroughs Corporation. Storage system having a head assembly for reading and writing on a record member having a touch indicator circuit. 3,634,835, 1-11-72, Cl. 340-174.1.
- Houston, John M., to General Electric Company. System for conducting heat from an electrode rotating in a vacuum. 3,694,685, 9-26-72, Cl. 313-60.000.
- Houston Natural Gas Corporation: See—
Ebner, Iheran L., 3,683,368.
- Houston, Richard K., to Agrecology, Incorporated. Agriculture irrigating method. 3,643,442, 2-22-72, Cl. 61-12.
- Houston, Robert D., to Xerox Corporation. Digital signal synchronizing system. 3,671,776, 6-20-72, Cl. 307-269.000.
- Houston, Robert J.; and Csicsery, Sigmund M., to Chevron Research Company. Catalyst composition comprising a mixture. 3,639,273, 2-1-72, Cl. 252-455.
- Houston, William L., Jr.: See—
Mitchell, Norris W.; Skraba, Frank W.; and Houston, William L., Jr., 3,681,897.
- Houston, William L., Jr.; and Clark, William C., to Phillips Petroleum Company. Removal of polymer from cracked gas caustic washes or caustic solutions. 3,679,765, 7-25-72, Cl. 260-683.00r.
- Houtz, Kenneth E.: See—
Kampert, Keith W.; and Houtz, Kenneth E., 3,666,332.
- Houtz, Kenneth E., to International Harvester Company. Self aligning and self adjusting thrust bushing assembly. 3,677,613, 7-18-72, Cl. 308-135.000.
- Hovagimyan, Norman; and Van Delft, Robert Neale, to RCA Corporation. Solid state analog cross-point matrix having bilateral crosspoints. 3,639,908, 2-1-72, Cl. 340-166.

- Hovasse, Christian: See—
Bonnel, Bernard; and Hovasse, Christian, 3,656,985.
- Hoven, Hubert: See—
Rofauffs, Hans; Hoven, Hubert; Hippel, Hans; and Schafer, Max, 3,695,199.
- Hover, Borre, to A/S Norsk Viftefabrikk. Ceiling structure with lights. 3,655,961, 4-11-72, Cl. 240-9.
- Hover, Borre, to A/S Norsk Viftefabrikk. Ceiling structure II. 3,687,056, 8-29-72, Cl. 98-40.00l.
- Hover, Paul B., to Tecumseh Products Company. Compressor muffler construction. 3,698,840, 10-17-72, Cl. 417-312.000.
- Hovermarine (Canada) Limited: See—
Richardson, Harold; and Newman, Bruce D., 3,700,064.
- Hovestad, Adrian P. Self-extending dockboard. 3,671,990, 6-27-72, Cl. 14-71.000.
- Hovey, Almon G.: See—
Dean Hubert W.; and Hovey, Almon G., 3,634,280.
- Dean, Hubert William; and Hovey, Almon G., 3,661,790.
- Hovey, Richard J., to American Optical Corporation. Variable density light filtering system. 3,645,909, 2-29-72, Cl. 252-300.
- Hovey, Richard J., to American Optical Corporation. Variable density light filtering means utilizing leuco phenazine dyes. 3,660,299, 5-2-72, Cl. 252-300.
- Hovik, J. Kjell: See—
Furst, Jozef; and Hovik, J. Kjell, 3,705,420.
- Hovis, Donald B.: See—
Kovalcik, John N.; and Hovis, Donald B., 3,697,223.
- Hovius, Eerenst Frans, to U.S. Philips Corporation. Apparatus for aligning two objects which comprises a source of light, a photosensitive detection system and two pattern carriers. 3,671,755, 6-20-72, Cl. 250-237.00r.
- Hovnanian, Vram E.; and Kitzmiller, Edward, to Logic Dynamics, Inc. Microelectronic package, buss strip and printed circuit base assembly. 3,670,208, 6-13-72, Cl. 317-101.
- Hovy, J. W. Hermann: See—
Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Schorre, Gustav; Hovy, J. W. Hermann; and Schorscher, Ernst, 3,669,956.
- Hovy, Jan Willem: See—
Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Schorre, Gustav; Hovy, Jan Willem; and Schorscher, Ernst, 3,669,972.
- Hovy, Jan Willem Herman: See—
Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Schorre, Gustav; Hovy, Jan Willem Herman; and Schorscher, Ernst, 3,669,973.
- Howa Kogyo Kabushiki Kaisha: See—
Ohira, Banri, 3,631,620.
- Sakazaki, Katsuhiko; and Saruhashi, Shigeru, 3,682,491.
- Howa Sangyo Kabushiki Kaisha: See—
Ando, Tsuneo; and Nakashima, Hironori, 3,648,481.
- Howald, Frank Peterson: See—
Giesecke, Elmer William; and Howald, Frank Peterson, 3,640,862.
- Howald, Werner E.: See—
Wright, Jack D.; and Howald, Werner E., 3,632,224.
- Howaldswerke-Deutsche Werft Aktiengesellschaft Hamburg und Keil: See—
Ehluss, Heinz-Gunter; and Wessel, Erich, 3,659,503.
- Howard, Anthony: See—
Greenfield, Stephen J.; Howard, Anthony; and Knapp, Lowell W., 3,697,063.
- Howard, Arthur G.: See—
Crisman, Marilou; and Howard, Arthur G., 3,654,629.
- Sterns, Lorance E.; and Howard, Arthur G., 3,664,458.
- Howard, Arthur G. Tossing game having target surfaces tiltable in response to correctly tossed projectile. 3,656,748, 4-18-72, Cl. 273-102.1.
- Howard Associates, Inc.: See—
Howard, Homer E., 3,704,699.
- Howard, Boyd D.: See—
Sump, Kenneth R.; Robinson, Ramon K.; Drumheller, Kirk; and Howard, Boyd D., 3,666,846.
- Howard, Carlton J.: See—
Port, Eugene B.; and Howard, Carlton J., 3,653,848.
- Howard, Carlton J.; and Port, Eugene B., to Allied Chemical Corporation. Method for recovering dust produced in sodium carbonate manufacture. 3,634,999, 1-18-72, Cl. 55-72.
- Howard, Darwin R. Holder for tetrahedron packages. 3,669,343, 6-13-72, Cl. 229-42.000.
- Howard, David Campbell, to Gas Council, The. Leak clamp assemblies. 3,700,270, 10-24-72, Cl. 285-337.000.
- Howard Displays, Inc.: See—
Kramer, Jerome D., 3,685,664.
- Howard, Donald Kearney; Thomas, Brian Martin; Popplewell, Alan Francis; and Matossi, Dario, to Ciba-Geigy Corporation. Additive for tin electroplating. 3,691,033, 9-12-72, Cl. 204-54.00r.
- Howard, Donald W.: See—
Hickner, George B.; Howard, Donald W.; and Suttle, Ward C., 3,674,318.
- Hickner, George B.; Howard, Donald W.; Houseman, Paul S.; and Carp, Ralph W., 3,704,043.
- Howard, Donald W.; and Eppley, Dewey W., to Bendix Corporation, The. Hydraulic accumulator charge detector and indicating system. 3,662,333, 5-9-72, Cl. 340-52.
- Howard, Donald W., to Bendix Corporation, The. Brake lining temperature probe. 3,674,114, 7-4-72, Cl. 188-1.00a.
- Howard, Donald W.; and Hickner, George B., to Bendix Corporation, The. Adaptive braking control system. 3,674,320, 7-4-72, Cl. 303-21.00p.
- Howard, Dwight Thomas, to Eastman Kodak Company. Document detecting and counting apparatus. 3,660,670, 5-2-72, Cl. 250-219.00c.
- Howard, Edward G., Jr., to Du Pont de Nemours, E. I., and Company. Copolymers of fluoroketone imines with polymerizable unsaturated compounds. 3,671,509, 6-20-72, Cl. 260-87.500.
- Howard, Frank C., to Signode Corporation. Pneumatic piston return system and valve assembly for impact tools. 3,653,299, 4-4-72, Cl. 91-416.
- Howard, Frank S., to United States of America, National Aeronautics and Space Administration. Geysering inhibitor for vertical cryogenic transfer pipe. 3,697,021, 10-10-72, Cl. 244-15.00b.
- Howard, George C., to Pan American Petroleum Corporation. System for lowering a subsea device from a vessel. 3,641,961, 6-15-72, Cl. 114-5.
- Howard, Gerald T.: See—
Nichols, Charles E., Jr.; and Howard, Gerald T., 3,660,214.
- Howard Hardware Products, Inc.: See—
Howard, Joel A., 3,703,234.
- Howard, Harold K., to United States of America, Navy. Bipolar sample and hold circuit. 3,701,152, 10-24-72, Cl. 343-16.00m.
- Howard, Herbert H., to Marine Swimming Pool Equipment Co. Automatically extensible and retractable swimming pool cleaner with housing in bond beam. 3,665,525, 5-30-72, Cl. 4-172.150.
- Howard, Herbert H., to Marine Swimming Pool Equipment Co. Swimming pool skimmer with vacuum and sweeping controls. 3,701,427, 10-31-72, Cl. 210-169.000.
- Howard, Homer E., to Howard Associates, Inc. Capacitor discharge ignition system with revolution limiter. 3,704,699, 12-5-72, Cl. 123-148.00e.
- Howard, James Kent: See—
Ainslie, Norman G.; Cherooff, George; Graff, William S.; Howard, James Kent; and Ross, Rupert F., 3,695,855.
- Howard, James N. Bicycle attachment and combination. 3,653,679, 4-4-72, Cl. 280-32.7.
- Howard, Joel A., to Howard Hardware Products, Inc. Display packages for drills, bits and similar boring tools, providing means to test if proper size for a given bolt, screw or dowell. 3,703,234, 11-21-72, Cl. 206-78.00b.
- Howard, John; and McIntosh, Terence D., to ITT Rayonier Incorporated. Plicatic acid esters. 3,644,481, 2-22-72, Cl. 260-473.
- Howard, John, to International Telephone and Telegraph Corporation. Crystalline plicatin. 3,689,505, 9-5-72, Cl. 260-343.300.
- Howard, John Alban, to Lever Brothers Company. Device for passing a product between zones of different pressure. 3,633,770, 1-11-72, Cl. 214-17.
- Howard, Joseph D.: See—
Howard, Joseph D.; and Brobeck, William M. (said Brobeck assor. to said), 3,637,989.
- Howard, Joseph D.; and Brobeck, William M. (said Brobeck assor. to said), 3,688,087.
- Howard, Joseph D.; and Brobeck, William M., said Brobeck assor. to said Howard, Joseph D. Automatic pricing and inventory control apparatus. 3,637,989, 1-25-72, Cl. 235-61.7.
- Howard, Joseph D.; and Brobeck, William M., said Brobeck assor. to said Howard, Joseph D. Method and apparatus for handling materials. 3,688,087, 8-29-72, Cl. 235-61.90r.
- Howard, Laurence M. Ornamental article. 3,674,616, 7-4-72, Cl. 161-62.000.
- Howard, Lawrence, 140/1500 to Hille, Jack, 140/1500 Andalman, Avrum N.; trustee, 680/1500 Cohen, Arnold L. and 115/1500 to Andalman, Avrum N. Electrical heating cables. 3,657,513, 4-18-72, Cl. 219-200.
- Howard, Lawrence A. Clock mechanism actuated by successively supplied ball weights. 3,672,149, 6-27-72, Cl. 58-2.000.
- Howard, Lawrence K. Character generator. 3,704,343, 11-28-72, Cl. 178-30.000.
- Howard, Lloyd V. Solar distillation irrigation apparatus. 3,653,150, 4-4-72, Cl. 47-29.
- Howard, Michael R., to Ford Motor Company. Method for making gear. 3,678,557, 7-25-72, Cl. 29-159.200.
- Howard, Robert, to Centronics Data Computer Corporation. Print head assembly containing solenoids. 3,690,431, 9-12-72, Cl. 197-1.00r.
- Howard, Robert; Robinson, Prentice I.; and Menhennett, Herbert E., to Centronics Data Computer Corporation. High-speed printer. 3,703,949, 11-28-72, Cl. 197-1.00r.
- Howard, Robert C.: See—
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- Howard, Robert E., to Armo Steel Corporation. Roller entry guide for rod mill. 3,664,074, 5-23-72, Cl. 72-250.
- Howard, Robert J.: *See—*
Cory, Victor W.; Williams, Edgar E.; and Howard, Robert J., 3,670,702.
- Howard, Stephen A.: *See—*
Wray, Paul E.; and Howard, Stephen A., 3,693,420.
- Howard, Thomas W., 1/2 to Metro-Goldwyn-Mayer British Studios Limited. Front projection composite cinematography. 3,634,004, 1-11-72, Cl. 352-47.
- Howard, Velmar E.: *See—*
MacCallum, James A.; Howard, Velmar E.; and Coberley, Daniel A., 3,677,856.
- Howard, Vesper J.: *See—*
Dehlin, Leone S.; and Howard, Vesper J., 3,706,104.
- Howard, Walter B.: *See—*
Rawls, Vaughn; and Howard, Walter B., 3,687,781.
- Howard, Wayne R.; and Sisson, Ronald L., to Clark Equipment Company. Automatic control system for hydrostatic drive. 3,636,705, 1-25-72, Cl. 60-19.
- Howard, Webster E., Jr.; Ludeke, Rudolf; and Stiles, Phillip J., to International Business Machines Corporation. Gated metal-semiconductor transition device. 3,648,124, 3-7-72, Cl. 317-235.
- Howard, William A. Electrical signal generator and liquid level indicator. 3,646,293, 2-29-72, Cl. 200-84.
- Howard, William L., to Dow Chemical Company. The. Crystalline propylene glycol. 3,632,657, 1-4-72, Cl. 260-635.
- Howarth, Graham Arton; and Hoyle, William, to Ciba-Geigy Corporation. Substituted 5-nitrofuryl-pyrazoles. 3,682,953, 8-8-72, Cl. 260-310,00r.
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- Howatt, Glenn N., to Gulton Industries, Inc. Method of eliminating voids in ceramic bodies. 3,635,759, 1-18-72, Cl. 117-212.
- Howden, James & Company Limited: *See—*
Cairns, Walter John; and MacDonald, Ian Norman, 3,642,386.
- Fraser, William Milton; Cairns, Walter John; and Mac Donald, Ian Norman, 3,671,149.
- Howe, Alan Colin Scott, to Laing, John, & Sons Limited. Entrainment of a fluid medium or other additive in a liquid or other formulation. 3,667,737, 6-6-72, Cl. 259-164,000.
- Howe, Alan Colin Scott, to Laing, John, & Sons Limited. Low density concretes and their manufacture. 3,679,445, 7-25-72, Cl. 106-88,000.
- Howe, Charles E.: *See—*
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- Howe, Clarence H. Animal identification tag and installation tool therefor. 3,694,949, 10-3-72, Cl. 40-301,000.
- Howe, Donald R.: *See—*
Schubert, Dudley J.; and Howe, Donald R., 3,705,663.
- Howe, Edwin W. Gyroscopes and suspensions therefor. 3,702,568, 11-14-72, Cl. 74-5,000.
- Howe, Eugene E.; and Huff, Jesse W., to Merck & Co., Inc. Cholic acid and choleic acid compositions and method of treatment. 3,636,210, 1-18-72, Cl. 424-238.
- Howe, Frank D., to Ingersoll-Rand Company. Fluid control valve. 3,656,502, 4-18-72, Cl. 137-327.
- Howe, Frank D., to Ingersoll-Rand Company. Heat exchanger. 3,656,544, 4-18-72, Cl. 165-74.
- Howe, Frank D., to Ingersoll-Rand Company. Cooler for gas. 3,667,541, 6-6-72, Cl. 165-74,000.
- Howe, Frederick J.; and Jimenez, Mario E., to Monsanto Company. Programmed drive systems for drawtowers. 3,636,696, 2-25-72, Cl. 57-95.
- Howe, Guy E. Device for sensing overcurrent and ground leakage current. 3,648,111, 3-7-72, Cl. 317-18.
- Howe, Hans-Ulrich, to Klockner-Humboldt-Deutz Aktiengesellschaft. Cylinders for air cooled reciprocable piston internal combustion engines. 3,659,568, 5-2-72, Cl. 123-41,69.
- Howe, Hans-Ulrich, to Klockner-Humboldt-Deutz Aktiengesellschaft. Cylinder head connection for reciprocable piston internal. 3,699,852, 10-24-72, Cl. 92-169,000.
- Howe, Harald O.; and Zschke, Wolfgang. Manhole setup for sewer systems. 3,654,952, 4-11-72, Cl. 137-363.
- Howe, James W., Jr.: *See—*
Gunter, Josef K.; Gunter, C. Walton; Pattillo, Roy E.; and Howe, James W., Jr., 3,681,815.
- Howe, John Arthur; and Darkins, Brian. Lampholder. 3,646,342, 2-29-72, Cl. 240-152.
- Howe, John Arthur, to TRW Inc., mesne. Electrical switch. 3,670,121, 6-13-72, Cl. 200-67,00g.
- Howe, John Arthur; and Bryan, Leslie Oliver, to TRW Inc. Electrical switch. 3,673,368, 6-27-72, Cl. 200-67,00g.
- Howe, John G., to AMF Incorporated, mesne. Tennis racket. 3,690,658, 9-12-72, Cl. 273-73,00c.
- Howe, Joseph H.; and Morris, Leo R., to Dow Chemical Company. The. (1-Bromo-1-(bromomethyl)-3,3,3-trichloropropyl benzene compounds. 3,634,485, 1-11-72, Cl. 260-465.
- Howe, Leland D., Jr.: *See—*
Carnevale, Richard J.; Howe, Leland D., Jr.; Metz, Thomas A.; Womack, Karl K.; and Zurla, Frank A., 3,656,123.
- Howe, Ralph; and Smith, Leslie Harold, to Imperial Chemical Industries Limited. 1-(4-Acylamino-2-alkylphenoxy)-3-amino-2-propanol derivatives. 3,634,511, 1-11-72, Cl. 260-562.
- Howe, Ralph S., Jr.: *See—*
Van Dorn, Horace B.; and Howe, Ralph S., Jr., 3,679,279.
- Howe, Ralph S., Jr., to Textron, Inc. Antifriction bearing with embedded race inserts. 3,640,592, 2-8-72, Cl. 308-193.
- Howe, Ralph S., Jr., to Textron, Inc. Method of making an antifriction bearing ring. 3,693,226, 9-26-72, Cl. 29-148,40r.
- Howe, Ralph W., to Helmerich & Payne, Inc. Pipeline pump station by-pass. 3,682,186, 8-8-72, Cl. 137-1,000.
- Howe Richardson Scale Company: *See—*
Gile, Richard H., 3,674,097.
- Godwin, Gilbert A.; and Kirkman, Anthony T., 3,643,753.
- Pratt, Chapin A., 3,662,845.
- Howe, Robert K.: *See—*
Baker, Joseph W.; and Howe, Robert K., 3,691,227.
- Howe, Robert K., to Monsanto Company. Herbicidal use of substituted o-phenylenediamines. 3,674,460, 7-4-72, Cl. 71-121,000.
- Howe, Robert K., to Monsanto Company. Preparation of N-alkyl anilino-methylenemalonitrile. 3,702,861, 11-14-72, Cl. 260-465,00c.
- Howe, Spencer D., to Hughes Aircraft Company. Oscillating mechanism. 3,671,766, 6-20-72, Cl. 310-39,000.
- Howe, Spencer D., to Hughes Aircraft Company. Scanning device. 3,678,308, 7-18-72, Cl. 310-36,000.
- Howe, Theodore. Load carrying stacking platforms. 3,664,273, 5-23-72, Cl. 108-53.
- Howe, Theodore. Load-carrying bodies. 3,665,869, 5-30-72, Cl. 108-53.
- Howe, Warren B.: *See—*
Burger, Jack E.; Deutsch, Fritz A.; Howe, Warren B.; and Kyle, William, 3,650,204.
- Howe, William E., to General Motors Corporation. Vapor deposition apparatus with planetary susceptor. 3,633,537, 1-11-72, Cl. 118-48.
- Howe, William J., to Georgia-Pacific Corporation. Heat sealing apparatus for closure of paperboard package flaps. 3,668,369, 6-6-72, Cl. 219-243.
- Howe, William J., to Georgia-Pacific Corporation. Open-top stacking carton and blank therefor. 3,704,823, 12-5-72, Cl. 229-32,000.
- Howe, Wilson S. Quick connect coupler. 3,695,139, 10-3-72, Cl. 85-33,000.
- Howell, Alleyne C., Jr. Rail-type electrification system. 3,649,779, 3-14-72, Cl. 191-45.
- Howell, Charles Frederick; and Greenblatt, Eugene Newton, to American Cyanamid Company. 2-Chloro-7-hydroxy-11-(1-piperazinyl)dibenz [b,f][1,4]oxazepines. 3,660,406, 5-2-72, Cl. 260-268.
- Howell, Charles Frederick; Hardy, Robert Allis Jr.; and Quinones, Nicanor Quinones, to American Cyanamid Company. Treatment of depression with 2-chloro-11-(piperazinyl)dibenz [b,f][1,4]oxazepines and acid addition salts thereof. 3,663,696, 5-16-72, Cl. 424-250.
- Howell, Charles Frederick; Hardy, Robert Allis, Jr.; and Quinones, Nicanor Quinones, to American Cyanamid Company. 2-Chloro-11-(piperazinyl) dibenz [b,f][1,4] oxazepine and acid addition salts thereof. 3,681,357, 8-1-72, Cl. 260-268,00r.
- Howell, Charles Frederick; and Greenblatt, Eugene Newton, to American Cyanamid Company. 7-Amino-2-chloro-11-(4-methyl-1-piperazinyl) dibenz (b,f) (1,4)-oxazepines acting on the central nervous system. 3,705,245, 12-5-72, Cl. 424-250,000.
- Howell, Charles M.; and Anand, Yoginder, to Microwave Associates, Inc. High burnout resistance Schottky barrier diode. 3,649,890, 3-14-72, Cl. 317-235.
- Howell, Charles N., to Ajax Magnethermic Corporation. Scanning type induction heating. 3,689,726, 9-5-72, Cl. 219-10,710.
- Howell, Eddie P.; Youngman, Carl A.; Hardison, Jack E.; and Tribble, Robert E., to Atlantic Richfield Company. Borehole thermal conductivity measurements. 3,668,927, 6-13-72, Cl. 73-154,000.
- Howell, Elgan Neville: *See—*
Hunn, Bernard Albert; and Howell, Elgan Neville, 3,671,721.
- Howell, Eunice Cockburn: *See—*
Altounyan, Roger Edward Collingwood; and Howell, Harry, 3,669,113.
- Howell, F. M., & Company: *See—*
Van Inwagen, Edwin A., 3,648,918.
- Howell, George E., to Reflex Corporation of Canada, Limited. Making a combined lens and reflector. 3,632,695, 1-4-72, Cl. 264-1.
- Howell, Harold D.; Hunter, Thomas O.; and Stinebaugh, Robert E., to United States of America, Atomic Energy Commission. Actuator system. 3,702,620, 11-14-72, Cl. 137-68,000.
- Howell, Harry: *See—*
Altounyan, Roger Edward Collingwood; Howell, Harry; and Rowlands, Martyn Omar, 3,635,219.

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- Howell, John: *See—*
Del Vecchio, Joseph T.; Howell, John; and Bunin, Herbert A., 3,650,578.
- Howell, John B.: *See—*
Dosey, Charles M.; Howell, John B.; and Soares, Silvio, 3,693,096.
- Yates, Lester R.; Dorsey, Charles M., Jr.; Howell, John B.; Conklin, Winfred S.; Sawicki, Joseph J.; Shepherd, Reeves T.; and Soares, Silvio, 3,641,434.
- Howell, John T.: *See—*
Freeman, Harlan G.; Baxter, Gene F.; and Howell, John T., 3,663,481.
- Howell, Jones V., Jr.; and Mayne, David W. Memory module. 3,707,705, 12-26-72, Cl. 340-174,0ma.
- Howell, Lawrence E.: *See—*
Howell, Lawrence E.; and Bailiff, Howard Vance, 3,653,927.
- Howell, Lawrence E.; and Bailiff, Howard Vance, 33 1/2 to each Western Meats, Howell, Lawrence E. and Bailiff, Howard Vance. Method of packaging meat. 3,653,927, 4-4-72, Cl. 99-174.
- Howell, Mark I., to Electrolocation Limited. Plotting apparatus for use in conjunction with surveying instruments. 3,707,002, 12-19-72, Cl. 346-33,00m.
- Howell, Peter E.: *See—*
Ho, Irving T.; Howell, Peter E.; and Jen, Teh-Sen, 3,665,210.
- Howell, Peter T. Adjustable auxiliary handle for shopping cart. 3,697,095, 10-10-72, Cl. 280-47,260.
- Howell, Richard S., to Xerox Corporation. Magnetic incremental cascade development system. 3,683,406, 8-8-72, Cl. 346-74,0es.
- Howell, Richard S.; and Brunner, Robert V., to Xerox Corporation. Dual mode electrographic recorder. 3,686,676, 8-22-72, Cl. 346-74,0es.
- Howell, Roland A. Hot box detector operable with diverse type bearing assemblies. 3,697,744, 10-10-72, Cl. 246-169,00d.
- Howell, Thomas G.: *See—*
Cormeier, Robert J.; Howell, Thomas G.; Corrigan, Charles E.; and Koff, Bernard L., 3,700,348.
- Howell, Thomas G.; and Koff, Bernard L., to General Electric Company. Turbomachinery rotor construction. 3,689,176, 9-5-72, Cl. 416-96,000.
- Howell, Thomas H., to Honeywell Information Systems Inc. Error control arrangement for associative information storage and retrieval. 3,700,870, 10-24-72, Cl. 235-153,000.
- Howell, Thomas H., to Honeywell Information Systems Inc. Error control arrangement for information comparison. 3,701,094, 10-24-72, Cl. 340-146,1al.
- Howell, Wallace E.: *See—*
Eustis, William E. C.; and Howell, Wallace E., 3,703,991.
- Howell, William E.; and Ostroff, Aaron J., to United States of America, National Aeronautics and Space Administration. Star image motion compensator. 3,647,276, 3-7-72, Cl. 350-16.
- Howell, William L. Device for measuring veno capillary filling time. 3,698,382, 10-17-72, Cl. 128-2,00r.
- Howell-Younes, Helen: *See—*
Siddall, Earl D., 3,648,549.
- Howells, Arthur J., Jr.: *See—*
Carlson, Ernest C.; Howells, Arthur J., Jr.; Jennings, Marvin D.; Eastman, Donald R.; and Sheets, Edward G., 3,698,580.
- Howells, Francis Thomas; and Ashe, Anthony Grenfell, to Shandon-Elliott Limited. Sequential processing apparatus. 3,674,040, 7-4-72, Cl. 134-58,00r.
- Howerton, Thomas F., to Carol Company. Razor-blade scraper. 3,665,605, 5-30-72, Cl. 30-169,000.
- Howerton, Glen. Locking gun rack. 3,643,811, 2-22-72, Cl. 211-64.
- Howery, Robert A.: *See—*
Hart, Dennis L.; and Howery, Robert A., 3,677,472.
- Howes, Edward P.; and Gillham, John A., to Hough Manufacturing Corporation. Portable partition. 3,638,376, 2-1-72, Cl. 52-122.
- Howes, Harold L., Jr.; and Koch, Richard C., to Pfizer Inc. 2-Benzylas-triazine-3,5(2H,4H) diones for the control of coccidiosis. 3,655,891, 4-11-72, Cl. 424-249.
- Howes, John Gordon Bernard; and Selway, Rupert Aleck, to Smith, T. J., & Nephew Limited. Substituted 5-(ortho carboxanilido-phenoxy)methyl tetrazoles. 3,649,637, 3-14-72, Cl. 260-308.
- Howes Leather Company, Inc.: *See—*
Schrade, Hans Christoph; Del Giudice, William F.; and Wimer, Charles W., 3,664,162.
- Howes, Leslie D., 50% to Garland Steel Company. System for controlling the burning or stock piling of refuse according to operating conditions of an incinerator. 3,702,594, 11-14-72, Cl. 110-8,00r.
- Howes, Peter A., to Clayton Manufacturing Company, mesne. Engine ignition and power analyzer. 3,650,149, 3-21-72, Cl. 73-117,3.
- Howick, Stanley O. Air washer. 3,702,048, 11-7-72, Cl. 55-238,000.
- Howie, Robert K., Jr., to Grigolet Company, The. Friction fit knob. 3,679,252, 7-25-72, Cl. 292-349,000.
- Howitt, David: *See—*
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- Austin, Christopher Frederic; Crowther, Philip Simpson; Warren, David; and Howitt, David, 3,657,904.
- Howitt, Henry Gazeley, to A.B. Electronic Components Limited. Slide potentiometer. 3,676,826, 7-11-72, Cl. 338-183,000.
- Howkinson, George E. Article holder. 3,679,064, 7-25-72, Cl. 211-43,000.
- Howland, John Sinclair: *See—*
Stevens, Justus Bickford; Meyer, Walter William; and Howland, John Sinclair, 3,658,349.
- Howland, John W.; and Rosso, Juan C.; deceased (by de Rosso, Elsa Vich), said Howland assor. to Gulf Oil Corporation. Thermal insulating fluid. 3,642,624, 2-15-72, Cl. 252-8,55.
- Howland, Robert F.; Haigh, Joseph B., II; and Fusi, Robert W., to General Foods Corporation. Quick-cooking rice product and process for preparing same. 3,694,226, 9-26-72, Cl. 99-80,0ps.
- Howland, Robert W.; and Van Fleet, Richard L., to Singer Company, The, mesne. Simulated aircraft radio aids. 3,663,734, 5-16-72, Cl. 35-10,2.
- Howland, Robert W.; Minnich, George E.; and Van Fleet, Richard L., to Singer Company, The, mesne. Instrument drive signals. 3,694,930, 10-3-72, Cl. 35-12,00f.
- Howland, Robin, to Parker-Knoll Limited. Drop-end seat mechanism. 3,640,567, 2-8-72, Cl. 297-116.
- Howle, Clement Roger, to Aluminum Company of America. Anodized continuously cast decorative plate with textured surface. 3,697,393, 10-10-72, Cl. 204-58,000.
- Howlett, Donald L., to Texaco Inc. Seismic playback/monitor system. 3,685,046, 8-15-72, Cl. 340-347,0da.
- Howlett, Donald L., to Texaco Inc. Amplifier system. 3,688,250, 8-29-72, Cl. 340-15,5dp.
- Howlett, George H.; and Howlett, James W., to Howlett Machine Works. Method of shoring and apparatus therefor. 3,650,112, 3-21-72, Cl. 61-35.
- Howlett, George H.; and Howlett, James W., to Howlett Machine Works. Tendon anchorage. 3,673,644, 7-4-72, Cl. 24-122,600.
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Howlett, George H.; and Howlett, James W., 3,650,112.
- Howlett, George H.; and Howlett, James W., 3,673,644.
- Howlett Machine Works: *See—*
Howlett, George H.; and Howlett, James W., 3,650,112.
- Howlett, George H.; and Howlett, James W., 3,673,644.
- Howlett, Peter Michael: *See—*
Stowell, Keith Christopher; and Howlett, Peter Michael, 3,647,473.
- Howman, Eric James: *See—*
Turner, Leonard; Howman, Eric James; and Bradshaw, Christopher Patrick Cadman, 3,641,189.
- Howmet Corporation: *See—*
Luhit, Gerald W.; Greenberg, Frederick A.; Pirkey, Edward; and Tingquist, Stanley C., 3,687,191.
- Ingalls, John E.; and Yaker, Charles, 3,669,177.
- Near, Glenn Arthur, 3,631,822.
- Schwartz, Charles W.; and Martini, Richard W., 3,640,815.
- Talbot, Albert M.; and Soller, Henry W., 3,662,810.
- Howorko, Adolf: *See—*
Morrison, William B.; and Howorko, Adolf, 3,659,056.
- Howsam, Peter John; and Barton, John Dalton. Wads for cartridges. 3,653,326, 4-4-72, Cl. 102-95.
- Howson Algraphy Limited: *See—*
Lawson, Leslie Edward; Smith, Frank Edward; and Smith, Peter John, 3,634,086.
- Howson, Robert D., to Bell Telephone Laboratories, Incorporated. Preceded ternary data transmission. 3,679,977, 7-25-72, Cl. 325-42.
- Howson, W. H., Limited: *See—*
Moore, Brian Joseph; and Wakinson, Leonard James, 3,701,657.
- Watkinson, Leonard James; and Moore, Brian Joseph, 3,669,668.
- Howtson, James F.; and Friend, Chester A., Jr., to United States of America, Army, mesne. Disposable rocket motor nozzle. 3,688,988, 9-5-72, Cl. 239-265,150.
- Hoxsie, Frank E. Portable self-starting fluorescent lamp. 3,671,803, 6-20-72, Cl. 315-99,000.
- Hoxsie, Frank E., to Lowrance Electronics Manufacturing Corporation. Depth meter having improved time varying gain control. 3,683,324, 8-8-72, Cl. 340-3,00r.
- Hoy, Daniel J.: *See—*
Poziomek, Edward J.; Hackey, Ethel B.; Hoy, Daniel J.; and Friedman, Harry George, Jr., 3,689,223.
- Hoy, John E., to United States of America, Atomic Energy Commission. Personnell neutron dosimeter. 3,699,337, 10-17-72, Cl. 290-83,100.
- Hoy, Kenneth Look; and Milligan, Charles Leonard, to Union Carbide Corporation. Production of polyenamines. 3,668,183, 6-6-72, Cl. 260-65,000.
- Hoya Glass Works: *See—*
Matsuura, Takashi; and Chikanon, Mitsuo, 3,706,688.
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Asahara, Yoshiyuki; and Izumitani, Tetsuro, 3,672,921.
- Ishiguri, Hachiro, 3,672,920.

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- Hoyer, Ekkehard, to Volkswagenwerk Aktiengesellschaft. Sun visor. 3,649,070, 3-14-72, Cl. 296-97.
- Hoyer, Fridolin A., to Allied Chemical Corporation. Process for purifying terephthalic acid. 3,642,884, 2-15-72, Cl. 260-525.
- Hoyer, Georg-Alexander; and Pieroh, Ernst Albrecht, to Schering A.G. Salts of carbamic and thiocarbamic esters with fungicidal and fungistatic action. 3,649,674, 3-14-72, Cl. 260-482.
- Hoyer, Hans; Keil, Gunter; and Happe, Wilhelm, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of shaped structures with improved dye affinity. 3,655,844, 4-11-72, Cl. 264-78.
- Hoyer, Karl: *See—*
- Wilke, Gerhard; Schnell, Gerhard; and Hoyer, Karl, 3,647,014.
- Hoyer, Manfred; and Welke, Helmut, to Klockner-Humboldt Aktiengesellschaft. Method of and device for controlling a multi-stage change gear transmission. 3,682,019, 8-8-72, Cl. 74-745,000.
- Hoyer, Sigurd, to Fairchild Industries, Inc. Collapsible reflector. 3,699,576, 10-17-72, Cl. 343-18,000.
- Hoyer-Gudmand, Mita Maria, to Dan-Fire-Energy ved Mita Gudmand-Hoyer. Method and an apparatus for the production of heat and pressure energy. 3,683,215, 8-8-72, Cl. 310-11,000.
- Hoyle, Albert G., to Kendall Company, The. Low-density bonded nonwoven fabrics and process therefor. 3,676,288, 7-11-72, Cl. 161-158,000.
- Hoyle, Edgar: *See—*
- Hawtree, George; and Hoyle, Edgar, 3,631,731.
- Hoyle, John; and Aspden, Derek, to Rolls-Royce Limited. Method of working cellular material. 3,635,070, 1-18-72, Cl. 72-376.
- Hoyle, William: *See—*
- Howarth, Graham Arton; and Hoyle, William, 3,682,953.
- Howarth, Graham Arton; and Hoyle, William, 3,682,956.
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- Hoyle, William; and Roberts, Gordon Peter, to Geigy Chemical Corporation. 5-Nitrofuryl derivatives. 3,632,577, 1-4-72, Cl. 260-240.
- Hoyle, William; and Savage, Michael Philip, to Ciba-Geigy Corporation. Novel substituted 5-nitrofurfurylideneamino-oxazolidinones. 3,686,170, 8-22-72, Cl. 260-240,00a.
- Hoyler, Alfred, to Bosch, Robert, G.m.b.H. Light for automotive vehicles and wiper therefor. 3,667,082, 6-6-72, Cl. 15-250,02.
- Hoyler, Alfred, to Bosch, Robert, G.m.b.H. Sealing arrangement for eddy current apparatus. 3,668,446, 6-6-72, Cl. 310-20,000.
- Hoyler, Gerhard: *See—*
- Behn, Reinhard; Gottlob, Heinrich; Haid, Hans; Hoyler, Gerhard; and Kessler, Hartmut, 3,670,378.
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- Weigl, Bedrich; Janku, Milos; Prikrly, Milos; Hubeny, Jaroslav; and Hofman, Milos, 3,643,301.
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- Westerkamp, Hugo; and Dubois, Robert, 3,641,284.
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- Andres, Rudolf; and Huber, Guntram, 3,694,028.
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- Aboytes, Peter, 3,676,256.
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- Iannicelli, Joseph; Kunkle, Albert C.; and Maynard, Robert N., 3,661,515.
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- Stubblefield, Charles David; and Wells, John Lee, 3,650,475.
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Davidson, Eugene M., 3,685,332.
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Edc, Ainsley Neville, 3,670,431.
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Nordseth, Marvin P.; and Hueber, Werner G., 3,662,104.
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Hedgpeth, Joel, 3,654,149.
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Rope, Barry S.; and Huffaker, James E., 3,683,486.
Salyer, Walter; and Huffaker, James E., 3,695,878.
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Auer, John H., Jr.; and Huffman, Jerry P., 3,641,575.
Auer, John H., Jr.; and Huffman, Jerry P., 3,653,043.
Auer, John H., Jr.; and Huffman, Jerry P., 3,675,190.
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Johnson, Alford H., 3,680,263.
- Huffman, Tommie R.: See—
Coleman, Michael G.; and Huffman, Tommie R., 3,675,064.
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Hartmann, Frederick; and Huffmann, Billy J., 3,665,419.
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Henschen, Homer Ernest; Huffnagle, Clifton Wesley; and Zell, Dale Richard, 3,663,930.
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Britton, Ralph H., Jr., 3,673,475.
- Hufner, Hans: See—
Krejan, Friedrich; Beese, Ferdinand; Hufner, Hans; Riedel, Franz; and Holzmann, Rainer, 3,665,649.
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Eisele, Hermann; and Huggett, Colin E., 3,668,495.
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Haller, Ivan; and Huggins, Harold A., 3,656,834.
- Huggins, Homer D.: See—
Modine, Arthur B.; Huggins, Homer D.; and Cook, Neal A., 3,707,185.
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Pestka, John A.; and Huggins, James A., 3,650,266.
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- Huggins, James A. Detachable guide needle. 3,656,479, 4-18-72, Cl. 128-214.400.
- Huggins, James M.: See—
Casey, Edward A.; and Huggins, James M., 3,639,291.
- Huggler, Arnold H.; and Weber, Bernhard G. Hip joint prosthesis. 3,658,056, 4-25-72, Cl. 128-92.
- Hughart, Robert P.: See—
Wilson, Peter C.; and Hughart, Robert P., 3,642,139.
- Hughes, Agnes M. Cleaner for wigs. 3,652,422, 3-28-72, Cl. 252-135.
- Hughes Aircraft Company: See—
Ajioka, James S., 3,633,130.
Ajioka, James S., 3,633,208.
Ajioka, James S.; and Rosen, Harold A., 3,680,143.
Andrews, La Vern A.; and Muchlinski, Donald A., 3,699,573.
Bales, Walter D., III; and Cosand, Neal H., 3,665,250.
Ballantyne, Jack R., 3,660,842.
Ballantyne, Jack R., 3,696,415.
Ballantyne, Jack R.; and Houck, Melvin E., 3,705,402.
Berwin, Ted W.; and Rado, John A., 3,643,106.
Berwin, Zolited W., 3,699,356.
Bilow, Norman, 3,669,929.
Bilow, Norman, 3,678,006.
Blair, George R.; and Keller, Sherman R., 3,679,559.
Bleha, William P., Jr.; and Scholl, Ronald F., 3,681,638.
Boucher, Robert J., 3,641,442.
Broadbent, Berne D., 3,670,312.
Calhoun, Donald F., 3,670,956.
Cantwell, Thomas C., Jr.; and Wilmot, Fullerton Richard D., 3,683,380.
Casper, Robert P., 3,678,492.
Chaplin, Richard W.; Holscher, Donald J.; Wasney, Albert, Jr.; and Wheeler, Bryce A., 3,641,261.
Curran, Robert E.; Robertson, Glenn D., Jr.; and Ketchpel, Richard D., 3,698,884.
Dahlinger, Rodney J., 3,679,998.
Dahlinger, Rodney J.; and Farnsworth, Robert P., 3,700,913.
Day, Richard A.; and French, William E., 3,671,728.
De Vaux, Lloyd H.; and Kurtin, Stephen L., 3,693,011.
Dehne, Axel G., 3,640,082.
Dill, Hans G.; Erb, Darrell M.; and Toombs, Thomas N., 3,633,078.
Dill, Hans G., 3,700,976.
Dobratz, Burton E.; and Farnsworth, Robert P., 3,644,740.
Dunlap, Howard L., 3,654,694.

Eckhardt, Wilfried O., 3,659,132.
 Eckhardt, Wilfried O., 3,699,384.
 Edge, Charles F., 3,633,173.
 Ennis, Robert M., Jr.; and Wilson, Robert G., 3,638,111.
 Erickson, Werner, Jr., 3,649,394.
 Evans, Norol T., 3,680,095.
 Farnsworth, Robert P.; and Wyeth, Richard W., 3,666,367.
 Farnsworth, Robert P.; and Dahlinger, Rodney J., 3,668,435.
 Field, Lester M.; Walker, Richard A.; and McKee, William E., 3,640,712.
 Fraser, Allister F., 3,654,050.
 Friedrich, Howard R., 3,696,230.
 Friess, Richard G., 3,659,074.
 Garvin, Hugh L.; Herman, Elvin E.; and Law, Russell R., 3,659,510.
 Gates, Louis E., Jr.; and Lent, William E., 3,634,566.
 Gates, Louis E., Jr., 3,649,426.
 Gates, Louis E., Jr.; and Lent, William E., 3,671,275.
 Gentile, Anthony L.; and Stafsudd, Oscar M., 3,671,203.
 Gerard, Henry M., 3,699,364.
 Gillmer, Arnold H.; and Hance, Harold V., 3,706,991.
 Gourlay, Robert D., 3,666,976.
 Grant, Jon H.; and Bales, Walter D., 3,641,365.
 Gundersen, James L., 3,656,152.
 Hallock, David D.; and Halsted, Abel S., 3,670,262.
 Halsted, Abel S.; and Hallock, David D., 3,670,261.
 Hansen, Jay M.; Holscher, Donald J.; and Prince, Paul R., 3,706,903.
 Hartung, Dale H., 3,662,150.
 Heitzman, James O., 3,668,315.
 Herman, Elvin E., 3,633,064.
 Herman, Elvin E.; and McCord, Henry L., 3,680,099.
 Herman, Elvin E.; Lym, Vernon W.; and McCord, Henry L., 3,703,005.
 Holy, Josef K.; and Toscano, Esteban J., 3,646,419.
 Howe, Spencer D., 3,671,766.
 Howe, Spencer D., 3,678,308.
 Hudspeth, Thomas; and Rosen, Harold A., 3,699,454.
 Hunsperger, Robert G.; and Marsh, Ogden J., 3,649,369.
 Hunsperger, Robert G.; and Marsh, Ogden J., 3,666,567.
 Jacobson, Stanley I.; and Sansbury, John R., 3,674,227.
 Jamba, Douglas M.; and Ennis, Robert M., Jr., 3,641,341.
 Janney, Gareth M., 3,691,477.
 Jones, Sheldon, 3,640,628.
 Jones, Sheldon; and Briggs, Raymond W., 3,644,043.
 Joujon-Roche, Phillip J.; and Smith, Loyd D., 3,691,469.
 Kaspaul, Alfred F.; and Kaspaul, Erika E., 3,660,087.
 Kaspaul, Alfred F., 3,664,249.
 Kaspaul, Alfred F.; and Kaspaul, Erika E., 3,671,238.
 Kaspaul, Alfred F.; and Kaspaul, Erika E., 3,698,946.
 Keene, Carl E.; and Bradley, Ruth D., 3,700,510.
 Kiefer, James E.; and Goodwin, Francis E., 3,653,743.
 King, Harry J., 3,697,793.
 Knapp, Christopher F.; and Ozzimo, Peter S., 3,638,140.
 Knauer, Wolfgang, 3,657,607.
 Koda, Nobuo J., 3,689,789.
 Kolb, William P., Jr.; and Goodwin, Frank E., 3,644,042.
 Koussa, Edward T.; and Iboshi, Lawrence K., 3,706,906.
 Kreinheder, Donald E.; and Shaw, Paul A., 3,633,203.
 Krupke, William F., 3,638,137.
 Kuhn, Henry G.; and Winterbettem, Rose Corless, 3,639,838.
 Kyle, Nanse R., 3,694,166.
 Larrison, John E., 3,657,790.
 LeCompte, George W., 3,643,497.
 Lian, Kenneth T.; and Long, Willis F., 3,641,358.
 Lian, Kenneth T., 3,662,205.
 Lian, Kenneth T.; and Knechtli, Ronald C., 3,668,453.
 Lund, Roger E.; and Hofmann, Gunter A.G., 3,641,384.
 Lutz, Michael A.; and Knechtli, Ronald C., 3,638,061.
 Lutz, Michael A.; and Long, Willis F., 3,660,723.
 Lutz, Michael A.; and Hofmann, Gunter A.G., 3,678,289.
 Lydon, Lloyd E.; Steigleder, Charles J.; and Carpenter, Warren E., 3,705,306.
 MacMullen, Alexander, 3,663,935.
 Margerum, John D., 3,649,549.
 Margerum, John D.; and Jacobson, Alexander D., 3,694,218.
 McDonald, Thomas W., 3,696,393.
 Miller, Larry R., 3,676,660.
 Miller, Leroy J.; and Bilow, Norman, 3,677,976.
 Mitchell, John E., 3,671,918.
 Moulin, Norbert L., 3,669,261.
 Myer, Jon H., 3,663,795.
 Myer, Jon H.; Hasslinger, Robert L.; and Webster, Francis P., 3,663,800.
 Myer, Jon H.; O'Mera, Thomas R.; and Richardson, John M., 3,700,907.
 Nelson, Harry, 3,698,812.
 Nussmeier, Thomas A., 3,654,473.
 Oakes, Malcolm M., 3,641,306.
 Perkins, Carroll R.; Shaffstall, Everett L.; Yoder, Robert N.; and Gundersen, James L., 3,659,286.

Pfiffner, Harold J., 3,646,361.
 Quinn, Richard D., 3,657,635.
 Richardson, Donald W.; Roscoe, Stanley N.; and Streeter, Edward, 3,652,836.
 Richardson, John M., 3,669,528.
 Robinson, Morton; and Cripe, Donald M., 3,649,552.
 Rosen, Harold A., 3,668,567.
 Rowlette, John J., 3,695,937.
 Rust, John B., 3,642,487.
 Rust, John B., 3,649,495.
 Scholl, Ronald F.; and Bleha, William P., Jr., 3,699,374.
 Schwartz, Seymour S.; and Rubin, Charles P., 3,670,358.
 Schweitzer, Bernard P., 3,681,579.
 Seaton, Arthur F., 3,701,162.
 Shaffstall, Everett L.; Perkins, Carroll R.; and Gundersen, James L., 3,646,587.
 Siegfried, Hansen, 3,668,932.
 Sinker, Robert A.; and Williams, George L., 3,665,226.
 Skehan, Bernard J., 3,665,282.
 Slate, Claude C., 3,644,938.
 Stafsudd, Oscar M.; and Haak, Frederik A., 3,701,046.
 Steigleder, Charles J.; Smithey, Linual D.; and Ydon, Lloyd E., 3,696,671.
 Stevens, Eugene H.; and Sullivan, Paul A., 3,659,049.
 Stults, Richard L.; and Curry, Robert W., 3,641,266.
 Tarbox, John W.; Hinds, Walter E.; and Castro, Rodolfo, 3,699,630.
 Taylor, Elmer N., 3,641,257.
 Totah, Raymond P.; Hawkins, Gordon L.; Soo, Peter H.; and Wolfe, George, Jr., 3,654,000.
 Wheeler, Bryce A., 3,634,622.
 Wilmot, Richard D.; and Ballantyne, Jack R., 3,705,936.
 Winters, Paul N., 3,649,916.
 Zimmerman, Robert L.; Schweitzer, Bernard P.; Garvin, Hugh L.; Pedinoff, Melvin E.; and Waldner, Michael, 3,668,662.
 Hughes, Alan T.: See—
 Hughes, David A.; and Hughes, Alan T., 3,690,656.
 Hughes, Alvin W. Stuffing apparatus for sausage batter and the like. 3,670,362, 6-20-72, Cl. 17-39,000.
 Hughes, Austin, to International Research & Development Company Limited. Synchronous alternating current electrical machines. 3,644,766, 2-22-72, Cl. 310-165.
 Hughes, Benjamin F. Lock assembly. 3,656,328, 4-18-72, Cl. 70-276.
 Hughes, Benjamin F. Rotary mower holder with expendable blades. 3,665,692, 5-30-72, Cl. 56-295.
 Hughes, Burton B. Marking consumer items by rendering colorless markings permanently colored with radiation exposure. 3,639,762, 2-1-72, Cl. 250-71.
 Hughes, Charles T.; and Mc Henry, Robert J., to Avco Corporation. Method for forming pyrrone molding powders and products of said method. 3,657,190, 4-18-72, Cl. 260-65.
 Hughes, Charles Thomas; and Paulsen, Duane Owen, to Du Pont de Nemours, E. I., and Company. Method of fixing a chelated organic titanate vehicle to a substrate. 3,682,688, 8-8-72, Cl. 117-168,000.
 Hughes, David A.; and Hughes, Alan T., to Dalan Company. Table game. 3,690,656, 9-12-72, Cl. 273-1,000.
 Hughes, David Geoffrey, to Decca Limited. Receivers for phase comparison radio navigation systems. 3,705,403, 12-5-72, Cl. 343-105,000.
 Hughes, David Geoffrey, to Decca Limited. Receivers for phase comparison radio navigation systems. 3,706,995, 12-19-72, Cl. 343-105,000.
 Hughes, Donald Kent: See—
 Ziegler, George William, Jr.; and Hughes, Donald Kent, 3,678,447.
 Hughes, Donald W., Jr. Battery closure device. 3,669,755, 6-13-72, Cl. 136-170,000.
 Hughes, Edward Victor Lawson, to Corporation of the City of Coventry. Hydrostatic/hydrodynamic shaft bearing arrangements. 3,669,517, 6-13-72, Cl. 308-122.
 Hughes, Garyth: See—
 Bickerdike, Robert Lewis; and Hughes, Garyth, 3,676,160.
 Hughes, Geoffrey W.: See—
 Rokop, Joseph; and Hughes, Geoffrey W., 3,682,233.
 Rokop, Joseph; and Hughes, Geoffrey W., 3,692,292.
 Rokop, Joseph; and Hughes, Geoffrey W., 3,702,154.
 Hughes, George C., to Columbia Gas System Service Corporation, mesne. Variable orifice meter. 3,691,831, 9-19-72, Cl. 73-203,000.
 Hughes, George H., to Beacon Manufacturing Company. Stitched non-woven fabric utilizing foam layer and a fibrous layer. 3,635,785, 1-18-72, Cl. 161-50.
 Hughes, George H., to Beacon Manufacturing Company. Laminated non-woven fabric utilizing a foam layer and a stitched fibrous layer. 3,635,786, 1-18-72, Cl. 161-50.
 Hughes, George H., to Beacon Manufacturing Company. Stitched, self-bonded, non-woven fabric. 3,649,427, 3-14-72, Cl. 161-50.
 Hughes, George H., to Beacon Manufacturing Company. Stitched composite non-woven fabric having a self-bonded fibrous supporting layer and outer fibrous layers. 3,649,428, 3-14-72, Cl. 161-50.

Hughes, George H., to Beacon Manufacturing Company. Needled composite non-woven fabric having a self-bonded fibrous supporting layer and outer fibrous layers. 3,649,429, 3-14-72, Cl. 161-64.
 Hughes, George W. Automobile tire valve adapter. 3,637,002, 1-25-72, Cl. 152-429.
 Hughes, Gordon A.: See—
 Tokolies, Joseph; Hughes, Gordon A.; and Smith, Herchel, 3,671,519.
 Hughes, Gordon Alan; and Smith, Herchel, said Hughes assor. to said Smith, Herchel. Utilization of gon-4-ene therapy in treatment of females and in growth stimulation. 3,666,858, 5-30-72, Cl. 424-243,000.
 Hughes, Graeme, to Imperial Chemical Industries Limited. Frames. 3,634,992, 1-18-72, Cl. 52-731.
 Hughes, Graham K., to Ashland Oil, Inc. Borate quaternary ammonium compounds derived from borate esters of amino secondary alkanols. 3,660,459, 5-2-72, Cl. 260-459,000.
 Hughes, Harold W.; and Shutt, Paul B., to Bendix Corporation, The. Secondary piston stop-wire retainer ring. 3,646,759, 3-7-72, Cl. 60-54.6.
 Hughes, Harry E., Jr.; Morton, Jack A.; and Wachs, Meyer H., to Bell Telephone Laboratories, Incorporated. Manipulation of semiconductor elements by magnetic means. 3,692,168, 9-19-72, Cl. 198-41,000.
 Hughes, Hugh S. Switch holder and guard. 3,678,236, 7-18-72, Cl. 200-169,000.
 Hughes, James D., 1/4 to Breston, Michael P. Educational and recreational device. 3,683,514, 8-15-72, Cl. 35-19,000.
 Hughes, James K.; and Su, Tsung-Yuan, to Phillips Petroleum Company. Polyolefin fibers of improved dye receptivity containing toluene-sulfonamides. 3,639,505, 2-1-72, Cl. 260-873.
 Hughes, John Barry, to U.S. Philips Corporation. Associative storage element. 3,704,456, 11-28-72, Cl. 340-173,000.
 Hughes, John F.: See—
 Secker, Philip E.; and Hughes, John F., 3,636,388.
 Hughes, John Joseph: See—
 Napoli, Louis Sebastian; and Hughes, John Joseph, 3,656,030.
 Napoli, Louis Sebastian; and Hughes, John Joseph, 3,686,624.
 Hughes, John Lawrence; and Liu, Robert Chung-Huan, to Armour Pharmaceutical Company. Guanidine compounds and use of same. 3,681,459, 8-1-72, Cl. 260-565,000.
 Hughes, John M.; Lehnhardt, Stanley E.; and Lochridge, Byron C., to Texas Instruments, Incorporated. Method for field stacking seismic data and system using write after read bulk data storage. 3,646,509, 2-29-72, Cl. 340-15.5.
 Hughes, Johnstone E.: See—
 Sharpe, Everett E.; and Hughes, Johnstone E., 3,707,135.
 Hughes, Larry E.: See—
 Filippi, Ernest A.; Watson, Jack B.; and Hughes, Larry E., 3,695,246.
 Hughes, Nick M.: See—
 Gammill, Edward L.; Hughes, Nick M.; and Rhoden, James A., 3,645,645.
 Hughes, Nigel: See—
 Berrie, Alistair Howard; and Hughes, Nigel, 3,640,674.
 Berrie, Alistair Howard; and Hughes, Nigel, 3,642,427.
 Berrie, Alistair Howard; and Hughes, Nigel, 3,657,214.
 Berrie, Alistair Howard; and Hughes, Nigel, 3,664,996.
 Hughes, Paul R., to United Aircraft Products, Inc. Differentiator in a cooling system. 3,651,863, 3-28-72, Cl. 165-11.
 Hughes, Philip G., to General Electric Company. Switching device for electromagnetic motor starters. 3,641,287, 2-8-72, Cl. 200-16.
 Hughes, Philip Richard: See—
 Eades, Edward Denis Michael; and Hughes, Philip Richard, 3,652,704.
 Hughes, Phillip Haydn: See—
 Jackson, Albert Edward; and Hughes, Phillip Haydn, 3,661,612.
 Hughes, Richard E., to Badger Company, Inc., The. Styrene plant waste heat utilization in a water desalination process. 3,691,020, 9-12-72, Cl. 203-25,000.
 Hughes, Richard J.: See—
 Bidell, Frederick W.; and Hughes, Richard J., 3,676,794.
 Hughes, Richard Smith, to United States of America, Navy. Pulse stretcher. 3,638,045, 1-25-72, Cl. 307-267.
 Hughes, Richard Smith, to United States of America, Navy. Amplitude independent, automatic frequency control discriminator. 3,706,932, 12-19-72, Cl. 325-438,000.
 Hughes, Richard Smith. Pulse repetition frequency detection and lock-on system. 3,706,935, 12-19-72, Cl. 328-155,000.
 Hughes, Robert L.; and Rouse, John E., to Vaskov Industries, Inc. Water heater. 3,704,692, 12-5-72, Cl. 122-161,000.
 Hughes, Robert O.; and Garrett William R., to Smith International, Inc. Reamer-stabilizer. 3,680,646, 8-1-72, Cl. 175-323,000.
 Hughes, Robert R.; and Marjon, Pierre L., to Chemical Specialties Manufacturing Corporation. Foam extractor for rotary scrubber. 3,686,707, 8-29-72, Cl. 15-385,000.
 Hughes, Robert W., to Ingersoll-Rand Company. Liner for aluminum drill guide feed. 3,650,576, 3-21-72, Cl. 308-3.
 Hughes, Robert W., to Ingersoll-Rand Company. Hydraulic centralizer. 3,683,466, 8-15-72, Cl. 24-249,000.

Hughes, Roland O.; and Allen, Joseph H., to North American Rockwell Corporation. Speed altitude command system for aerial vehicles. 3,641,323, 2-8-72, Cl. 235-150.2.
 Hughes, Ronald William; and Boyse, Alan, to Lucas, Joseph, (Industries) Limited. Fuel control apparatus. 3,699,941, 10-24-72, Cl. 123-179,000.
 Hughes, Thomas H., to PPG Industries, Inc. Framing machine and method. 3,685,122, 8-22-72, Cl. 29-235,000.
 Hughes, Thomas R.; and Sieg, Robert P., to Chevron Research Company. Production of gasoline by averaging and reforming. 3,699,035, 10-17-72, Cl. 208-92,000.
 Hughes Tool Co., Aircraft Division: See—
 Conti, John A., 3,658,173.
 Goldin, Morris, 3,687,077.
 Seekins, William C., 3,695,089.
 Hughes Tool Company: See—
 Galle, Edward N., 3,699,675.
 Goldin, Morris, 3,636,647.
 Kelly, Joseph L., Jr.; and Woods, Henry B., 3,682,258.
 Kelly, Joseph L., Jr.; and Gamaunt, Roger L., 3,679,154.
 Verbeke, Pol R., 3,634,794.
 Hughes, William: See—
 Edgar, Owen Burchell; Hughes, William; Lawrance, Derek Robert; Lederer, Gerald; and Ritchie, Colin Foster, 3,679,624.
 Hughes, William B., to Phillips Petroleum Company. Electrochemical generation of soluble nickel (O) catalysts. 3,668,086, 6-6-72, Cl. 204-59.
 Hughes, William B., to Phillips Petroleum Company. Electrochemical production of nickel (I) complexes. 3,674,661, 7-4-72, Cl. 204-73,000.
 Hughes, William B.; and Zuech, Ernest A. Conversion of olefins using complexes of V or N containing no with organo aluminums. 3,691,253, 9-12-72, Cl. 260-683,000.
 Hughes, William B., to Phillips Petroleum Company. Hydrogenation of olefin hydrocarbons using rhodium or iridium halide complexes with metal halides. 3,697,615, 10-10-72, Cl. 260-683,900.
 Hughes, William C., to General Electric Company. Wide frequency response line scan magnetic deflector. 3,673,528, 6-27-72, Cl. 335-210,000.
 Hughes, William G. Step bracket. 3,652,046, 3-28-72, Cl. 248-205.
 Hughes, William L.; Allison, Hansel J.; and Ramakumar, Ramachandra G., to Oklahoma State University. Apparatus for providing AC electrical energy at a preselected frequency. 3,663,945, 5-16-72, Cl. 321-61.
 Hughes, William L.; Allison, Hansel J.; and Ramakumar, Ramachandra G., to Oklahoma State University. High pressure storage vessel. 3,703,976, 11-28-72, Cl. 220-3,000.
 Hughes, William W., to Westvaco Corporation. Dispenser for continuous business forms. 3,669,341, 6-13-72, Cl. 229-33,000.
 Hughey & Phillips, Inc.: See—
 Knudson, Clarence B., 3,652,923.
 Hughey, Vaughn V., to Basic Incorporated. Process for improving the hydration resistance of dead-burned magnesite. 3,677,779, 7-18-72, Cl. 106-58,000.
 Hughson, J. Donald, to General Signal Corporation. Decoding system having plural frequency channels. 3,699,521, 10-17-72, Cl. 340-171,000.
 Hugin, Adolph C. Sewage lift station. 3,655,053, 4-11-72, Cl. 210-152.
 Hugel Industries, Inc.: See—
 Hugel, William B.; Pedrotti, Donald G.; and Perrine, William F., 3,645,230.
 Hugel, William B.; Pedrotti, Donald G.; and Perrine, William F., to Hugel Industries, Inc. Chemical deposition apparatus. 3,645,230, 2-29-72, Cl. 118-49.5.
 Hugler, Klaus, to Klinger, Robert, Kunststoff Spritzgusswerk, Firma. Control valve block for gaseous or liquid fluid media for universal application. 3,707,163, 12-26-72, Cl. 137-271,000.
 Hugli, Hans W.; and Siegel, Vernon H., to Sundstrand Data Control, Inc., mesne. Piezoelectric pressure transducer with acceleration compensation. 3,651,353, 3-21-72, Cl. 310-8.4.
 Hugo, Etienne: See—
 Machon, Raymond; Flechet, Jean; and Hugo, Etienne, 3,664,805.
 Hugon, Emile: See—
 Gutton, Henri; and Hugon, Jean Jacques, 3,670,247.
 Hugon, Jean Jacques: See—
 Gutton, Henri; and Hugon, Jean Jacques, 3,670,247.
 Hugon, Pierre: See—
 Beregi, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Laubie, Michel, 3,651,122.
 Beregi, Laszlo; Hugon, Pierre; and Le Douarec, Jean-Claude, 3,663,595.
 Beregi, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Duhault, Jacques, 3,683,008.
 Beregi, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Duhault, Jacques, 3,683,088.
 Beregi, Laszlo; Hugon, Pierre; and Desnoyers, Pierre, 3,696,117.

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Gutton, Henri; and Hugon, Jean Jacques, 3,670,247.
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Gutmann, Stephan; and Huguenin, Rene, 3,681,355.
Gutmann, Stephan; and Huguenin, Rene, 3,666,762.
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Douzon, Colette A.; Huguet, Gerard J.; Fauran, Claude I.; Raynaud, Guy M.; and Gouret, Claude J., 3,654,298.
Eberle, Jeannine A.; Sergant, Micheline Y.; Fauran, Claude P.; and Huguet, Gerard J., 3,642,898.
Raynaud, Guy M.; Fauran, Claude P.; Turin, Michel J.; Pourrias, Bernard M.; and Huguet, Gerard J., 3,696,100.
- Huguet, Gerard M.: *See—*
Eberle, Jeannine; Sergant, Micheline; Fauran, Claude; and Huguet, Gerard M., 3,639,476.
- Huguet, Juan L., to Celanese Corporation. Separation of a mixture comprising vinyl acetate, ethyl acetate, and acetic acid by distillation. 3,692,636, 9-19-72, Cl. 203-71.000.
- Huguet, Juan Luis, to Celanese Corporation. Tellurium dioxide solutions. 3,637,515, 1-25-72, Cl. 252-182.
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Richard, Norman; Jean, Robert; Huh, William; and Patton, Wilard Thomas, 3,698,000.
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Peter, Kurt; Huhne, Gerd; Kauer, Harald; Overlach, Knud; and Schlicker, Volker, 3,638,212.
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McNabney, Ralph; and Huibers, Derk Th. A., 3,654,126.
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Reber, Robert L.; and Huiskens, James C., 3,678,348.
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Mowrey, Albert C.; Huiskes, John H.; and Brand, Abraham, 3,706,085.
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Bukosky, Allen A.; Flavin, Michael A.; Hill, Donald G.; Huizinga, Donald D.; and Ritchey, James F., 3,670,111.
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Kohler, Roland; Nagel, Erich; Hujer, Friedrich; and Viehrig, Wolfgang, 3,674,365.
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Hunt, Elton B., Jr.; and Hujzak, Karol L., 3,702,884.
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Hirose, Kengo; Ishiwata, Noboru; and Hukawa, Tadaomi, 3,641,394.
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Kelly, Clifford J.; and Hukee, Bernard J., Jr., 3,703,241.
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- Hukin, David Ainsworth. Crucibles. 3,702,368, 11-7-72, Cl. 13-26.000.
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Hall, Ronald Edward; and Hulbert, Larry Norman, 3,676,848.
- Hulbert, Richard W.: *See—*
Nies, Nelson P.; and Hulbert, Richard W., 3,649,172.
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Wogerbauer, Alfred; and Hulek, Anton, 3,707,257.
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Turner, Richard C.; and Stanton, Ronald J., 3,688,369.
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McIntosh, Robert H.; and Hull, Ezekiel H., 3,705,235.
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Gagin, Lawrence Vincent; and Hull, Glenn Ralph, 3,690,135.
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Kopps, Harry A.; and Hull, Howard E., 3,652,020.
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Geisler, Raymond E.; Hull, Leroy E.; and Kirschbaum, Michael E., 3,647,974.
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Jones, Richard Norman; Armand, Joseph Marcel; and Hull, Nadeau, 3,683,978.
- Hull, Neil A.: *See—*
De Claire, James H.; Dully, Floyd I.; and Hull, Neil A., 3,653,711.
- Gionet, Edmond R.; and Hull, Neil A., 3,643,755.
- Gionet, Edmond R.; and Hull, Neil A., 3,695,659.
- Hull, Richard A.: *See—*
Sharp, Allen B.; and Hull, Richard A., 3,685,128.

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Barrett, Arthur Michael; Carter, John; Hull, Roy; Le Count, David James; and Squire, Christopher John, 3,663,607.
- Hull, Thomas Neil, Jr., to General Electric Company. Aircraft engine fan duct burner system. 3,693,354, 9-26-72, Cl. 60-261.000.
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Rademacher, Paul; and Hulland, Burton L., 3,680,116.
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- Huller Rottenburg Gesellschaft mit beschränkter Haftung: *See—*
Fischer, David; Kohler, Rudolf; Roos, Hugo; and Merker, Joachim, 3,685,845.
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Lytton, Kenneth G.; Hullett, David F.; and Miller, George J., 3,700,091.
- Hulley, Bernard James, to Imperial Chemical Industries Limited. Method and apparatus for product sampling. 3,668,934, 6-13-72, Cl. 73-421.00r.
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Ullman, William L.; Baxter James C.; Pearson, Arthur J.; Davis, Robert E.; and Hullhorst, William B., 3,642,034.
- Hullinger, Clifford H.; Cohen, Lawrence; and Yui, Nooyuki Henry, to American Maize-Products Company. Process for making paper using starch having an increased gel strength. 3,640,842, 2-8-72, Cl. 162-175.
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Enders, Edgar; and Hullstrung, Dieter, 3,636,153.
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- Hulme, Kenneth Fraser: *See—*
Davies, Philip Hywel; Hobden, Maurice Vernon; Hulme, Kenneth Fraser; and Jones, Oliver, 3,696,038.
- Huls, Karl. Device for joining together parts of a piece of furniture. 3,666,303, 5-30-72, Cl. 287-20.92.
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Pynchon, George O.; and Hulse, James H., Jr., 3,653,284.
- Hulslander, William L., to Dresser Industries, Inc. Valve with controlled seal deflection. 3,647,181, 3-7-72, Cl. 251-317.
- Hulsman, William H., to Control Design, Inc. Transistorized thermocouple flame detector. 3,701,137, 10-24-72, Cl. 340-228.00r.
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Naskar, Sasanka Sekhar; Hulsmann, Hans-Leo; and Renckhoff, Gustav, 3,705,186.
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- Hulten, Richard E., to McCord Corporation, mesne. Protective device. 3,680,903, 8-1-72, Cl. 293-71.00r.
- Hulter, Heinrich, Jr., Firma: *See—*
Lindner, Gustav, 3,650,176.
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Schneider, Stephen G.; Hultgren, Frank A.; and Barclay, William F., 3,650,848.
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- Hultquist, Gordon W., to Coach and Car Equipment Corporation. Tamper-proof ticket holder for commuter seat. 3,647,259, 3-7-72, Cl. 297-194.
- Hults, Harold W., to Cutler-Hammer, Inc. Miniature positive action toggle switch. 3,636,286, 1-18-72, Cl. 200-69.
- Hults, Harold W., to Cutler-Hammer, Inc. Integrated wire termination system. 3,683,322, 8-8-72, Cl. 339-255.00r.
- Hulver, Virginia Wilson: *See—*
Wilson, John Hart, 3,636,905.
- Hum, Allen S., to General Mills, Inc. Method of glazing hard candy coatings. 3,695,894, 10-3-72, Cl. 99-134.00r.
- Human Factors Research Incorporated: *See—*
O'Hanlon, James F., Jr.; and Sanderson, Glenn A., 3,648,688.
- Humber, Leslie G.: *See—*
Bruderlein, Francois T.; and Humber, Leslie G., 3,657,250.
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Harker, Howard R.; and Humberstone, Geoffrey H., 3,690,635.
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Birchall, Thomas D., 3,643,822.
- Hume, George Dennis. Tank structure. 3,655,057, 4-11-72, Cl. 210-288.
- Hume, Norman S.: *See—*
Deranian, Diran; Hume, Norman S.; and Uhtenwoldt, Herbert R., 3,634,980.
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Uhtenwoldt, Herbert R.; Grotewold, William H.; and Humes, Norman S., 3,643,382.
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- Huml, James O.: *See—*
Layne, Gilbert S.; and Huml, James O., 3,666,442.
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- Humlong, Robert F.: *See—*
Pawsat, Carlton P.; and Humlong, Robert F., 3,647,242.
- Pawsat, Carlton P.; and Humlong, Robert F., 3,659,478.
- Pawsat, Carlton P.; and Humlong, Robert F., 3,701,289.
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- Humlong, Robert F., to Wald Manufacturing Company, Incorporated. Bicycle kickstand. 3,652,105, 3-28-72, Cl. 280-301.
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Maurer, Robert F.; Mc Vay, Robert D.; and Hummel, Donald L., 3,669,581.
- Hummel, Gunter; and Scheer, Erich. Digital clock with alarm. 3,686,879, 8-29-72, Cl. 58-38.000.
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Argabright, Perry A.; Hummel, Jack L.; and Presley, C. T., 3,705,627.
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Haist, Grant M.; and Humphlett, Wilbert J., 3,649,279.
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- Humphrey Elevator and Truck Company: *See—*
Underwood, Timothy J., 3,683,898.
- Humphrey, Floyd B.: *See—*
Nagy, Stanley S.; and Humphrey, Floyd B., 3,702,239.
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Christie, Joseph H.; and Humphrey, James R., 3,647,549.
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- Owens, Boone B.; and Humphrey, James R., 3,661,647.
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- Humphrey Research Associates, mesne: See—
Humphrey, William E., 3,684,374.
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- Humphrey, William J.: See—
Witt, Enrique R.; Humphrey, William J.; and Schnizer, Arthur W., 3,654,352.
- Humphreys Corporation: See—
Poole, John W.; Thorpe, Merle L.; and Vogel, Charles E., 3,694,618.
- Scammon, Lawrence W., Jr., 3,661,764.
- Humphreys, Robert Eric: See—
Doyle, George Mitchell; Humphreys, Robert Eric; and Moring, Peter Lothar Ernst, 3,671,478.
- Humphreys, Thomas F. Accessory receptacle. 3,647,059, 3-7-72, Cl. 206-58.
- Humphreys, Wendell L.: See—
Houghton, Graham K.; and Humphreys, Wendell L., 3,683,595.
- Humphreys, Wendell Lewis. Discharge electrode tensioning means. 3,703,799, 11-28-72, Cl. 55-147.000.
- Humphries, Darral V., to Bethlehem Steel Corporation. Seal for multi-wire strand. 3,639,201, 2-1-72, Cl. 161-143.
- Humphries, Darral V., to Bethlehem Steel Corporation. Method of forming seal for multi-wire strand. 3,671,622, 6-20-72, Cl. 264-263.000.
- Humphries, Darral V., to Bethlehem Steel Corporation. Sealed wire rope and strand and method of making same. 3,681,911, 8-8-72, Cl. 57-149.000.
- Humphries, Darral V., to Bethlehem Steel Corporation. Corrosion resistant plastic composite and method of making. 3,687,798, 8-29-72, Cl. 161-156.000.
- Humphriss, Wesley D.; and Bartlett, Lawrence C., to Eastman Kodak Company. Barrier layers for electrophotographic elements containing a blend of cellulose nitrate with a tetrapolymer having vinylidene chloride as the major constituent. 3,640,708, 2-8-72, Cl. 96-1.5.
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- Hund, Franz, to Farbenfabriken Bayer Aktiengesellschaft. Chromium-dioxide-catalyst. 3,667,913, 6-6-72, Cl. 23-219.
- Hundeck, Joachim: See—
Sennewald, Kurt; Ohorodnik, Alexander; Hundeck, Joachim; Mittler, Werner; Vicrling, Hermann; and Opitz, Wolfgang, 3,660,306.
- Hundere, Alf. Apparatus for determining the thermal stability of fluids. 3,670,561, 6-20-72, Cl. 73-61.200.
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Moll, Hans H.; and Hundt, Werner, 3,638,751.
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Liu, Jui-Chang; and Chan, Teng, 3,672,491.
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Johnson, James C., 3,697,821.
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Hunt, Johnnie B., 3,694,992.
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United States of America, National Aeronautics and Space Administration, 3,698,848.
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Peter, Fritz, 3,645,116.
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De Paolis, Potito U., 3,682,646.
- Dougan, Ernest V., 3,655,402.
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Bell, Ronald J.; and O'Neal, Edward C., 3,641,797.
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Norman, Leslie W.; Hunter, Skillman C.; and Perronc, George L., 3,646,761.
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- Klann, Horst, 3,646,985.
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- Freerks, Conrad T.; Huppert, James C.; and James, Ralph E., 3,645,049.
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- Roch, Gerald V., 3,691,887.
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- MacCallum, James A.; Howard, Velmar E.; and Coberley, Daniel A., 3,677,856.
- Hurletron Controls Division, mesne: See—
- Wright, Robert J., 3,661,081.
- Hurley, Ed, Jr.: See—
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- Hurst, George P. Wire rope suspension system and rope connector for rotary dryers and the like. 3,669,433, 6-13-72, Cl. 263-33.00r.
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- Loos, Herbert; and Kretzschmar, Karl, 3,654,791.
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- Hutchings, Leroi E., to Universal Oil Products Company. Swing-bed guard chamber in hydrogenating and hydrorefining a coke-forming hydrocarbon charge stock. 3,696,022, 10-3-72, Cl. 208-57.000.
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- Hutchins, Alma A. Rotary fluid device with axially expansible vane. 3,639,090, 2-1-72, Cl. 418-111.
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- Hutchins, Samuel F. Apparatus for measuring and indicating the angular position of an antenna. 3,704,449, 11-28-72, Cl. 340-198.000.
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Ofstedahl, Edwin N.; Huttemann, Thomas J., Jr.; and Goffe, Charles A., 3,671,260.
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Degenkolbe, Joachim; and Musgen, Bruno, 3,674,577.
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- Pantke, Heinz-Dieter; and Pohl, Ulrich, 3,634,592.
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Bonavent, Gerard; Huvy, Michel; and Peinado, Marcel, 3,680,729.
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Rampy, C. W.; and Bonham, Alba J., 3,689,743.
- Hycor, Inc.: *See*—
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Ekstrom, Per-Olof; and Hyden, Hans, 3,687,503.
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Conery, William J.; and Kaessen, Donald A., 3,650,481.
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Snider, George P., 3,688,919.
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Stuyvenber, Franciscus D., 3,683,754.
- Hydraulic Industries, Inc.: *See*—
Tennis, Francis H., 3,677,281.
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Johnson, Kermit B., 3,693,767.
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Holm, Wayne E., 3,673,392.
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- Hydro Chemical & Mineral Corporation: *See*—
Osford, Asriel, 3,647,638.
- Hydro Component Research and Development Co.: *See*—
Genz, Orville F., 3,672,807.
- Hydro Conduit Corporation: *See*—
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- St. John, Dudley, 3,656,732.
- Hydro Drive Corporation: *See*—
Schwisow, Vern L., 3,645,644.
- Hydro Flame Corporation: *See*—
Jackson, George W., 3,662,735.
- Hydro Manufacturing, Inc.: *See*—
Gilbert, Samuel, 3,667,683.
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Arnold, James F., 3,704,033.
- White, William E., Jr., 3,695,634.
- Hydro Tower Co.: *See*—
Rauch, Gerald B.; and Bridges, Wade, 3,656,631.
- Hydro-Air Engineering, Inc.: *See*—
Moehlenpach, Walter G.; and Farnsworth, Dennis G., 3,687,239.
- Hydro-Services, Inc.: *See*—
Hinrichs, Jack F., 3,672,575.
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Kiernan, Henry E., 3,654,960.
- Hydro-Test, Inc.: *See*—
Ball, Frank C.; and Knapp, Willard E., 3,685,544.
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- Newberger, Bernard I.; Ehrlich, Stanley W.; and Vergara, Manuel N., 3,666,826.
- Newberger, Bernard I., 3,702,873.
- Weber, Carl L.; Wolk, Ronald H.; and Chervenak, Michael C., 3,677,716.
- Wolk, Ronald H., 3,705,850.
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Corlett, Ewan Christian Brew, 3,640,071.
- Hydrodata, Inc.: *See*—
Johnson, Fielding G.; and Green, James A., 3,688,910.
- Hydroflow Corporation: *See*—
Oglesby, William T., 3,666,917.
- Hydromation Engineering Company: *See*—
Hirs, Gene, 3,669,882.
- Hydromation Filter Company: *See*—
Hirs, Gene; and Wyckoff, Richard H., 3,695,433.
- Hydromecanique et Frottement: *See*—
Caubet, Jacques Jean, 3,658,576.
- Hydrometals, Inc., *mesne*: *See*—
Hayman, Dennis J., 3,680,592.
- Hydronautics, Incorporated: *See*—
Gollan, Arye, 3,674,684.
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- Tulin, Marshall P., 3,647,521.
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Bloch, Rene A.; Furmansky, Mordechai; and Gassner, Saul, 3,700,576.
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- Hydrosonic Corporation: *See*—
Robinson, Seymour, 3,645,255.
- Hydrotech Services, Inc.: *See*—
White, William E., Jr.; and Billingsly, Lloyd E., 3,707,025.
- Hydrovane Compressor Company Limited, The: *See*—
Carter, Alan, 3,669,579.
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Applegarth, John C.; Carroll, Kevin; and Hyland, Donald D., 3,688,440.
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Gramkow, Asger; and Hyldal, Jorgen, 3,696,281.
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Sheehan, Ronald T.; Cowan, Everett C.; and Hyman, Myles, 3,665,688.
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Hyman, Sam M., 3,665,517.
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Ashley, Kenneth, 3,683,596.
- Campbell, David Neil; and Turton, Frank Arnold, 3,704,598.
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- Longbottom, Geoffrey Brian, 3,645,128.
- Nicholds, Kenneth E., 3,645,113.
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Pankoke, Werner; and Kormeyer, Dieter, 3,662,710.

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Ritter, George F., Jr.; and Hymore, Frank J., 3,672,861.
- Hymowitz, Emil W., to United States of America, Navy. Submarine snorkel camouflage method. 3,698,338, 10-17-72, Cl. 114-15.000.
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- Hynd, William Christie, to Pilkington Brothers Limited. Glass melting furnaces having hinged floor insulation. 3,650,726, 3-21-72, Cl. 65-347.
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- Hynes, John F., Jr. Recorder with circular storage element. 3,651,499, 3-21-72, Cl. 340-174.1.
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Suzuki, Masaru; and Hyodo, Masayoshi, 3,641,493.
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- Hytolaine, William Kenneth. Golfers stance gauge including undue sway indicator. 3,638,950, 2-1-72, Cl. 273-187.
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Yamamoto, Atsushi; Omori, Tairiku; and Yasui, Hiroshi, 3,647,629.
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Sommeria, Marcel R., 3,667,023.
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Critchfield, Frank Edward; Hyre, John Edward; and Stout, Eldon Charles, 3,689,531.
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Brownstein, Henry J., 3,675,254.
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Bostad, Wayne W.; and Golik, Ralph F., 3,662,849.
- Downey, William P., 3,659,732.
- Olson, John E.; Bostad, Wayne W.; and Price, Norman L., 3,670,626.
- Schwab, Delmar G., 3,664,129.
- Hyster Company, *mesne*: *See*—
Best, Eric, 3,701,211.
- Hystron Fibers Incorporated: *See*—
Popp, Jürgen; Jakob, Franz; and Mobius, Heinzhorst, 3,634,541.
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Wright, Eric L., 3,637,067.
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Campbell, William B., 3,648,983.
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Johnels, Arne, 3,638,278.
- I-Info Corporation: *See*—
De Pizzol, Armand L., 3,632,196.
- I-T-E Circuit Breaker (Canada) Limited: *See*—
Kerti, Joseph A., 3,692,923.
- Turgeon, Joseph A., 3,679,240.
- I-T-E Imperial Corporation: *See*—
Clark, Robert M., 3,639,671.
- Cronin, John C., 3,703,664.
- Garzon, Ruben D., 3,676,737.
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- Gorin, Eugene, 3,679,811.
- Graybill, Howard W., 3,643,003.
- Gryctko, Carl E.; Strobel, Albert; and Ball, Kenneth D., 3,697,714.
- Gryctko, Carl E.; and Shaffer, Howard R., 3,703,691.
- Hiszpanski, Jan A., 3,707,302.
- Katz, Sherwin D.; and Levon, Joseph M., 3,667,722.
- Kucharski, Leonard J., 3,636,290.
- Kussy, Frank W.; and Heberlein, Gustave E., Jr., 3,663,903.
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- McConnell, Lorne D., 3,704,391.
- Perry, E Robert; and Gorin, Eugene, 3,646,288.
- Reighter, David H., 3,675,392.
- Reighter, David H., 3,684,816.
- Rickert, Frank J.; and Pokorny, Frank J., 3,678,237.
- Rider, Thomas F., 3,633,629.
- Samm, Ralph W.; Perry, Robert F.; and Dodge, David S., 3,660,720.
- Zocholl, Stanley E., 3,656,026.
- Zubaty, Martin V., 3,684,849.
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Kowal, Leonard J., 3,665,604.
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Whitley, James Brooks; and Iannicelli, Joseph, 3,667,689.
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Rindner, Wilhelm; Iannini, Americo; and Garfein, Andre, 3,686,542.
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Ando, Masao, 3,633,063.
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Koussa, Edward T.; and Iboshi, Lawrence K., 3,706,906.
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Longinotti, Franco, 3,641,919.
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Villaneu, Michel, 3,696,567.
- Ibuchi, Kenji, to Victor Company of Japan, Limited. Tape cartridge. 3,682,415, 8-8-72, Cl. 242-197.000.
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- Shimanaka, Hiroshi; Irie, Toshio; Tanda, Toshikuni; and Ichi, Tomoyuki, 3,666,568.
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- Miyakawa, Takashi; Kurita, Tomio; and Ichimura, Akira, 3,643,224.
- Ichimura, Hirohisa: See—
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- Suzuki, Yoshiro; Nagahara, Shigeiro; and Ichimura, Nobuyoshi, 3,674,520.
- Ichimura, Yutaka: See—
- Takayama, Yuzi; Ichimura, Yutaka; Minmami, Shunsuke; Aoyagi, Takanobu; and Takeda, Fumio, 3,703,491.
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- Sakamoto, Yoichi; and Ichinohe, Eisuke, 3,652,960.
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- Langhans, Roy Kenneth, 3,703,380.
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- Perrino, Albert C.; and Israel, Michael G., 3,644,488.
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- Ickes-Braun Glasshouses, Inc.: See—
- Radtke, Carl W., 3,692,350.
- ICM, Inc.: See—
- Smith, Ralph E., 3,666,172.
- ICP, Inc.: See—
- Liebman, Raymond B. J., 3,673,472.
- Murgas, Karl M.; Greenberg, Burton; and Clark, Otto A., 3,700,326.
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- Icraus, John W.: See—

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- Kubota, Tadao; and Ida, Keisuke, 3,674,382.
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- Suzuki, Akira; and Ida, Sagamihara Keisuke, 3,664,771.
- Idaho Pars, Inc.: See—
- Steinke, Richard C., 3,684,308.
- Idayatov, Tofik Kudrat Ogly: See—
- Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Idayatov, Tofik Kudrat Ogly; Proshian, Nea Eachievna; Sarkisov, Rafael Tevosovich; and Stepanian, Ernst Arakelovich, 3,651,774.
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- Ide, Fumio: See—
- Nakatsuka, Kazuo; Ide, Fumio; Ito, Kazuo; and Yamamoto, Norimasa, 3,644,575.
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- Smith, Randal E.; and Egbom, Clarence W., 3,640,385.
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- Strachan, Ronald A., 3,654,429.
- Ideal Security Hardware Corporation: See—
- Waldo, Russell W., 3,677,591.
- Ideal Shoji Kabushiki Kaisha: See—
- Yasuda, Hiroyuki, 3,658,076.
- Ideal Toy Corporation: See—
- Amici, Francis Robert; and Davis, Robert E., 3,650,066.
- Amici, Francis Robert; Davis, Robert E.; and Levine, Richard, 3,698,134.
- Cooper, Julius; and Nielsen, Edwin A., 3,674,269.
- Cooper, Julius, 3,703,048.
- Levine, Richard, 3,653,152.
- Nemeth, Henry; Nielsen, Edwin August; and Berkin, Harvey, 3,667,764.
- Weiss, Gerhart; and Ensmann, Burt W., 3,664,673.
- Ideal Wig Company, Inc.: See—
- Cho, Chaenyung, 3,645,276.
- Ideation, Inc.: See—
- Goss, Donald D., 3,662,514.
- Ideboen, John: See—
- Zitzler, Earl W.; and Ideboen, John, 3,704,195.
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- Ideka, Tadashi: See—
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- Idemitsu Kosan Co., Ltd.: See—
- Kobayashi, Akito; Watanabe, Kiyoshi; Narita, Yoshihiro; Shiota, Eiji; and Iwaoka, Kenji, 3,646,102.
- Ogino, Yoshisada; Igarashi, Akira; and Tsuchiya, Michio, 3,634,532.
- Yamato, Masaru, 3,655,445.
- Idemitsu Petrochemical Co., Ltd.: See—
- Ozaki, Atsumu; and Morooka, Yoshihiko, 3,636,156.
- Identicon Corporation: See—
- Wolff, Gerald, 3,701,097.
- Identicon Corporation, mesne: See—
- Hug, Hans A.; and Jones, Paul W., 3,657,792.
- Jones, Paul W., 3,684,866.
- Identification Corporation: See—
- Jacoby, Ian H.; Giordano, Anthony J.; and Fioretti, Warren H., 3,648,240.
- I dex Corporation: See—
- Helms, Thomas F., 3,633,406.
- I.D.L. Incorporated: See—
- Hackett, Robert H.; Hartmann, Charles D.; and Elias, Brady M. (said Hackett assor. to), 3,643,362.
- Idomoto, Souzo: See—
- Sugimoto, Yoichi; Nakata, Shizuhiro; Nakashima, Atsuo; and Idomoto, Souzo, 3,692,922.
- Idskov, Arne S.; and Nielsen, Jacob A., to Crisplant A/S. Conveyor systems. 3,637,066, 1-25-72, Cl. 198-38.
- IEC-Holden Ltd.: See—
- Winsor, Robert Beck, 3,635,368.
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- Shirasaka, Makoto; Tanabe, Katsumi; Naito, Atsushi; and Ieki, Masako, 3,639,212.
- Iemura, Toshio; Doi, Masaru; and Shimizu, Yoshiaki, to Sanyo Electric Co., Ltd. Magnetic transducer heads. 3,674,944, 7-4-72, Cl. 179-100,20c.
- Ierusalinskaya, Irina Nikolaevna: See—
- Borkovsky, Gennady Mikhailovich; Tsukernik, Vitaly Borisovich; and Ierusalinskaya, Irina Nikolaevna, 3,675,194.
- Ierusalimsky, Boris Nikolaevich: See—
- Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratn, Valentin Isidorovich; Rivlis, Mikhail Evseevich; Savcliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,719.
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- Iesaka, Hiroyuki: See—
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- Ifield, William Robert: See—
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- I.F.S. Incorporation: See—
- Grants, Paul R., 3,704,562.
- Igarashi, Akira: See—
- Ogino, Yoshisada; Igarashi, Akira; and Tsuchiya, Michio, 3,634,532.
- Igarashi, Ryo: See—
- Nakagiri, Masaru; Onoda, Katsuhiro; Igarashi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tohru, 3,702,466.
- Nakanuma, Sho; Tsujide, Tohru; Wada, Toshio; Igarashi, Ryo; and Onoda, Katsuhiro, 3,665,423.
- Onoda, Katsuhiro; Igarashi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tohru, 3,651,490.
- Wada, Toshio; Onoda, Katsuhiro; Igarashi, Ryo; Nakanuma, Sho; and Tsujide, Tohru, 3,646,527.
- Igarashi, Yoshiaki: See—
- Kobayashi, Kazutsugu; Matsumoto, Hisayuki; and Igarashi, Yoshiaki, 3,662,238.
- Kobayashi, Kazutsugu; Igarashi, Yoshiaki; and Matsumoto, Hisayuki, 3,683,248.
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- Iizuka, Masao; Igari, Norio; and Maeda, Shigeo, 3,654,259.
- Iizuka, Masao; Igari, Norio; and Ito, Shinya, 3,661,904.
- Iizuka, Masao; Igari, Norio; and Maeda, Shigeo, 3,679,656.
- Igawa, Keisuke: See—
- Okazaki, Kaoru; Shimokawa, Yoichi; Maeda, Taneo; Igawa, Keisuke; Okagawa, Chikatsu; and Kato, Koichi, 3,639,502.
- Igel, John J.; and Schettl, Myron D., to International Business Machines Corporation. Data recorder and verifier. 3,665,403, 5-23-72, Cl. 340-172.5.
- Igel, Wolfgang: See—
- Krauss, Paul; and Igel, Wolfgang, 3,703,023.
- Igew, Godwill M. Fishing apparatus. 3,688,456, 9-5-72, Cl. 52-121,000.
- Igglesden, Graham Arthur, to Ciba-Geigy AG. Foamed materials and their preparation. 3,692,706, 9-19-72, Cl. 260-2,50f.
- Igi, Keishiro: See—
- Katsuura, Kanji; and Igi, Keishiro, 3,639,352.

Mizuno, Masao; and Igi, Keishiro, 3,700,642.
 Ignatova, Ljudmila Alexandrovna: *See—*
 Gridunov, Ivan Tikhonovich; Unkovsky, Boris Vladimirovich; Donskaya, Marina Maiorovna; Andreev, Leonid Vladimirovich; Korolkova, Galina Sergeevna; Ignatova, Ljudmila Alexandrovna; and Grigorian, Alexandr Grigorievich, 3,681,278.
 Ignell, Rolf Lennart, to Sobrefina SA. Packaging container. 3,666,163, 5-30-72, Cl. 229-14.00b.
 Ignell, Rolf Lennart, to Sobrefina SA. Apparatus for moulding a container component. 3,680,996, 8-1-72, Cl. 425-292.000.
 Ignelzi, Antonio; and Monari, Orlando. Rotary engine. 3,690,095, 9-12-72, Cl. 60-39.270.
 Igneri, Anthony V.; Milack, Joseph, Jr.; and Longo, John, to Fairfield-Noble Corporation. Creasing machine. 3,677,205, 7-18-72, Cl. 112-200.000.
 Iguchi, Masaaki: *See—*
 Hara, Yoshiaki; Masagaki, Akio; and Iguchi, Masaaki, 3,692,293.
 Iguchi, Masakazu: *See—*
 Arimura, Tohru; Kamata, Masamoto; Saito, Morio; Suzuki, Hiromu; and Iguchi, Masakazu, 3,677,045.
 Iguchi, Masayuki: *See—*
 Inoue, Komei; and Iguchi, Masayuki, 3,670,177.
 Inoue, Shigejiro; and Iguchi, Masayuki, 3,652,827.
 Iguchi, Takashi: *See—*
 Takeda, Isao; Iguchi, Takashi; Tsuzuki, Katsuaki; and Nakano, Tooru, 3,658,647.
 Takeda, Isao; Iguchi, Takashi; and Nakano, Tooru, 3,674,640.
 Iha, Kiyoshi: *See—*
 Thomsen, Jack W.; Nupnau, Arthur E.; Kim, Raymond W. H.; Cherniavskiy, Jaroslav; and Iha, Kiyoshi, 3,635,548.
 Iha, Kiyoshi, to Bell & Howell Company. Film cartridge support assembly for projectors. 3,674,347, 7-4-72, Cl. 352-73.000.
 Ihara, Takashi: *See—*
 Komiya, Takao; Tosaka, Umi; Ihara, Takashi; Matsuo, Takehiko; and Ohara, Katsunobu, 3,687,659.
 Matsuo, Takehiko; Tosaka, Umi; Hasegawa, Tetsuo; Ohara, Katsunobu; and Ihara, Takashi, 3,652,315.
 Ihara, Takashi; Matsuo, Takehiko; and Ohara, Katsunobu, to Canon Kabushiki Kaisha. Drum-photosensitive member and method for manufacturing thereof. 3,697,302, 10-10-72, Cl. 117-34.000.
 Ihasz, Richard: *See—*
 Demci, Michael; and Ihasz, Richard, 3,672,049.
 Ihm, Joseph M. Gelled alcohol fuel containing nitrocellulose and boric acid. 3,672,851, 6-27-72, Cl. 44-7.00b.
 Ihochi, Takahiko, to Hitachi, Ltd. High power integrated circuit ceramic package with metallic heat conducting body. 3,644,798, 2-22-72, Cl. 317-234.
 Ihrig, Allen C.; and Wilson, Richmond W., to Corning Glass Works. Radiation target structure and use to cool molten glass. 3,645,712, 2-29-72, Cl. 65-83.
 Ihring, Hanns: *See—*
 Seeger, Ernst; Engel, Wolfhard; Teufel, Helmut; Machleidt, Hans; Ueberberg, Heinrich; and Ihring, Hanns, 3,642,801.
 Ii, Chikai, to Hitachi, Ltd. Communication channel holding system for an automatic telephone exchange. 3,634,630, 1-11-72, Cl. 179-181.
 Iida, Eiichi; Komatsubara, Tsuneo; Ueno, Sadao; Takeuchi, Soichiro; Matui, Etuo; and Sano, Toshio, to Japanese Geon Company, Ltd., The. Process for the preparation of vinyl chloride polymers for paste. 3,654,248, 4-4-72, Cl. 260-87.5.
 Iida, Kazuo: *See—*
 Ichiki, Eiichi; Iida, Kazuo; and Matui, Aturo, 3,652,621.
 Ichiki, Eiichi; Iida, Kazuo; Inoue, Yasuhiko; and Kondo, Yoshihiro, 3,674,541.
 Ichiki, Eiichi; Iida, Kazuo; Inoue, Yasuhiko; and Uyeo, Keizo, 3,691,108.
 Iida, Kinji: *See—*
 Onozuka, Mitsuo; and Iida, Kinji, 3,661,958.
 Iida, Masachika; and Imajyo, Yasutaka, to Tokyo Shibaura Electric Co., Ltd. Electric circuit breaker. 3,646,488, 2-29-72, Cl. 335-16.
 Iida, Seishi; and Unno, Yoichi, to Tokyo Shibaura Electric Co., Ltd. Semiconductor lasers. 3,660,780, 5-2-72, Cl. 331-94.500.
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 Iida, Toshikatsu; and Sato, Bunzi, to Tokyo Shibaura Electric Co., Ltd. Hermetically sealed electric compressor. 3,692,435, 9-19-72, Cl. 417-372.000.
 Iida, Yoshio: *See—*
 Masuyama, Takeshi; Matsuura, Mikio; Iida, Yoshio; and Amemiya, Toshioki, 3,642,664.
 Masuyama, Takeshi; Matsuoka, Michio; and Iida, Yoshio, 3,658,725.
 Masuyama, Takeshi; Amemiya, Toshioki; and Iida, Yoshio, 3,670,216.
 Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,632,528.

Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,632,529.
 Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,634,337.
 Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,682,841.
 Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,689,863.
 Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,699,058.
 Nakata, Koreaki; and Iida, Yoshio, 3,649,880.
 Nakata, Koreaki; and Iida, Yoshio, 3,689,990.
 Iida, Yozo, to Nippon Kogaku K.K. Varifocal lens mount with deformable anti-friction coatings. 3,663,093, 5-16-72, Cl. 350-187.
 Iida, Yozo, to Nippon Kogaku K.K. Motion picture camera capable of automatic overlap photographing. 3,692,395, 9-19-72, Cl. 352-217.000.
 Iida, Yozo; and Nozawa, Hideyo, to Nippon Kogaku K.K. Film winding device for motion-picture cameras. 3,695,551, 10-3-72, Cl. 242-194.000.
 IIG Industries, Inc.: *See—*
 Ball, Donald H.; and Kawulski, Henry, 3,684,396.
 Iijima, Hiroshi: *See—*
 Toyoguchi, Mitsuru; and Iijima, Hiroshi, 3,661,765.
 Iijima, Hiroshi, to Nippon Electric Company, Limited. Pulse regenerating circuit. 3,659,214, 4-25-72, Cl. 328-207.
 Iijima, Hiroshi; Terasaka, Masaji; and Tokita, Osamu, to Nippon Kokan Kabushiki Kaisha. Method of treating steel. 3,701,693, 10-31-72, Cl. 148-6.240.
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 Iijima, Ikuo: *See—*
 Fujimura, Hajime; Tanaka, Tadasu; Iijima, Ikuo; Miyazaki, Michihiko; and Masaki, Masao, 3,642,802.
 Iijima, Kunio: *See—*
 Iwakura, Yoshio; Uno, Keikichi; Kajiyama, Shigeru; Kituda, Yoshihiro; Kusushita, Takao; and Iijima, Kunio, 3,632,536.
 Iijima, Nobuaki; and Takahashi, Tohru, to Iwatsu Electric Co., Ltd. Semi-balanced amplifier. 3,693,108, 9-19-72, Cl. 330-21.000.
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 Iijima, Takashi: *See—*
 Fukuda, Masataro; and Iijima, Takashi, 3,658,591.
 Iijima, Tetsuya: *See—*
 Mori, Yoichi; Okazaki, Nobuo; Ohtsuka, Kunio; and Iijima, Tetsuya, 3,701,293.
 Iijima, Yasuo, to Matsushita Electric Industrial Co., Ltd. Mechano-electrical transducer having a pressure applying pin fixed by metallic adhesion. 3,639,812, 2-1-72, Cl. 317-234.
 Iijima, Yoo; Shimamura, Isao; Kondo, Tokiharu; and Haruhike, Iwano, to Fuji Photo Film Co., Ltd. Developing process. 3,674,491, 7-4-72, Cl. 96-66.300.
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 Iimura, Kazuo; Sawada, Kiyoshi; and Kato, Hiroki, to Toshiba Kikai Kabushiki Kaisha. Method and apparatus for manufacturing reference scales. 3,698,817, 10-17-72, Cl. 356-156.000.
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 Iino, Koji: *See—*
 Nagahisa, Masanori; Kusaka, Yoshimi; Iino, Koji; and Yamamoto, Zemichiro, 3,681,276.
 Iinuma, Yoshio: *See—*
 Komiya, Katsuhiko; and Iinuma, Yoshio, 3,667,212.
 IIT Research Institute: *See—*
 Ali, Mir Akbar; and Pincus, Alexis G., 3,671,380.
 Ali, Mir Akbar; Schwartz, Murray A.; and Li, Pei Ching, 3,677,778.
 Bortz, Seymour A.; Rechter, Harold L.; Reynolds, William E.; and Bazell, Seymour, 3,662,405.
 Camras, Marvin, 3,642,288.
 Camras, Marvin, 3,681,526.
 Camras, Marvin, 3,683,107.
 Camras, Marvin, 3,686,433.
 Camras, Marvin, 3,686,436.
 Camras, Marvin, 3,686,467.
 Camras, Marvin, 3,702,906.
 Camras, Marvin, 3,705,954.

Dahn, Carl James; and Van Den Heuvel, Anthony P., 3,669,022.
 Hill, Vernon L.; Nichols, Harry R.; and Hess, Alan L., 3,679,494.
 Holtz, Frederick C., Jr., 3,655,365.
 van den Heuvel, Anthony P.; Owen, Ronald B.; and Joshi, Shrinivas G., 3,665,225.
 Van Den Heuvel, Anthony P.; Richter, Ronald W.; and Joshi, Shrinivas G., 3,676,721.
 Watmough, Thomas; and Schey, John A., 3,635,068.
 Iizima, Yoshiomi: *See—*
 Minami, Noriaki; Okawa, Tamoutu; and Iizima, Yoshiomi, 3,635,155.
 Iizuka, Hajime: *See—*
 Kawai, Hidetoshi; Iizuka, Hajime; Shinkai, Takuo; and Yoshioka, Yoshiro, 3,665,398.
 Iizuka, Hiroshi: *See—*
 Okazaki, Hiroshi, 3,658,650.
 Iizuka, Kikuo: *See—*
 Oushige, Takayoshi; and Iizuka, Kikuo, 3,696,311.
 Iizuka, Kouichi, to Nippon Piston Ring Kabushiki Kaisha. Piston ring. 3,661,402, 5-9-72, Cl. 277-235.
 Iizuka, Masao; Igari, Norio; and Maeda, Shigeo, to Hodogaya Kagaku Kogyo Kabushiki Kaisha. Cationic triazoleazindole dyestuffs. 3,654,259, 4-4-72, Cl. 260-157.
 Iizuka, Masao; Igari, Norio; and Ito, Shinya, to Hodogaya Kagaku Kogyo Kabushiki Kaisha. 2-Alkyl-4,5-dichloro-aminopyridazones-3 and preparation thereof. 3,661,904, 5-9-72, Cl. 260-250.
 Iizuka, Masao; Igari, Norio; and Maeda, Shigeo, to Hodogaya Kagaku Kogyo Kabushiki Kaisha. Quaternized 1,2,4-triazolium-3-azo dyestuffs. 3,679,656, 7-25-72, Cl. 260-157.000.
 Iizuka, Michio; and Kikuchi, Toshikazu, to Hope Kabushiki Kaisha. Sliding device for ski heel binding. 3,702,194, 11-7-72, Cl. 280-11.50t.
 Iizuka, Noritoshi: *See—*
 Narusawa, Shozo; and Iizuka, Noritoshi, 3,637,072.
 Narusawa, Shozo; and Iizuka, Noritoshi, 3,696,579.
 Iizuka, Yoshihiro, to Citizen Watch Co., Ltd. Buckle construction for a wrist watch bracelet. 3,636,596, 1-25-72, Cl. 24-191.
 Ijiri, Yoshinobu; Yano, Yoshiaki; and Yoshida, Hiroshi, to Hiroshima Kago Kabushiki Kaisha. Detergent oily agent adapted to be well absorbed in fabrics and having detergency. 3,668,133, 6-6-72, Cl. 252-88.000.
 Ijstra, Hendrik J.: *See—*
 Lagerwey, Johannes; Ijstra, Hendrik J.; and Andriess, George F. J., 3,672,472.
 Ikada, Takeo. Cushion. 3,691,569, 9-19-72, Cl. 5-345.000.
 Ikai, Masaru; Ishii, Toshikazu; and Higashikuze, Michiaki, to Toray Industries, Inc. Pneumatic shell structures constructed from synthetic resin films. 3,664,069, 5-23-72, Cl. 52-2.
 Ikarasi, Takeo, to Japan Gas-Chemical Company, Inc. Process for the carboxylation of compounds having a replaceable hydrogen atom. 3,646,131, 2-29-72, Cl. 260-537.
 Ikari, Kyoichiro: *See—*
 Imoto, Saburo; Ikari, Kyoichiro; Mori, Hirosaburo; and Hattori, Tatsuaki, 3,650,805.
 Ikawa, Kenji; and Takami, Fumitaka, to Shinonogi & Co., Ltd. Process for preparing dialkylaminoalkoxycarbonium tetrafluoroborate. 3,673,234, 6-27-72, Cl. 260-453.00r.
 Ikebata, Shigeki: *See—*
 Kurahashi, Koichiro; and Ikebata, Shigeki, 3,665,246.
 Ikeda Bussan Company, Limited: *See—*
 Ishida, Hideo, 3,695,570.
 Ikeda, Fumiaki: *See—*
 Miyazaki, Toshio; Omura, Etouzou; Katakabe, Kyoku; Makita, Minoru; Iwase, Kenji; Tsutsumivit, Hideo; Yotsumoto, Takashi; Ikeda, Fumiaki; Takashima, Yoshiro; Sueyoshi, Hiromu; and Maesaka, Tomio, 3,689,620.
 Ikeda, Hideo: *See—*
 Ikegami, Kazutoshi; Ikeda, Hideo; Takeuchi, Kazumi; Kitamura, Kosuke; and Takahashi, Susumu, 3,648,179.
 Ikeda, Hirosaka: *See—*
 Kawakita, Takao; Ikeda, Hirosaka; Matsumura, Shigeru; and Taniguchi, Kunichiko, 3,671,300.
 Ikeda, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Microwave oven. 3,641,301, 2-8-72, Cl. 219-10.55.
 Ikeda, Hisao, to Matsushita Electric Industrial Co., Ltd. Magnetic tape recording and reproducing device. 3,646,611, 2-29-72, Cl. 274-4.
 Ikeda, Hisayuki: *See—*
 Tamate, Tokutaro; Yagi, Eiichi; and Ikeda, Hisayuki, 3,677,925.
 Yagi, Eiichi; Kojima, Kenko; Ikeda, Hisayuki; Yauchi, Shiro; Shimizu, Tsutomu; Tamate, Tokutaro; and Ikegawa, Hiroyuki, 3,680,841.
 Ikeda, Itsuo; and Katagiri, Nobuyuki, to Kabushiki Kaisha Ricoh. Process for developing an electrophotographic printing material. 3,650,738, 3-21-72, Cl. 96-1.
 Ikeda, Kazuhiko, to National Cash Register Company, The. Keyboard locking device. 3,703,987, 11-28-72, Cl. 235-26.000.

Ikeda, Kazuhiro, to Messrs. Kabushiki Kaisha Mitachi Onkyo Seisakusho. Cartridge for pickup. 3,665,123, 5-23-72, Cl. 179-100.41.
 Ikeda, Koji: *See—*
 Kitano, Ichiro; Koizumi, Ken; Matsumura, Hiroyoshi; Ikeda, Koji; and Uchida, Teiji, 3,658,407.
 Kushihashi, Akira; and Ikeda, Koji, 3,679,386.
 Ikeda, Kozyuro: *See—*
 Tsuda, Yoshizo; Yamamoto, Akinori; and Ikeda, Kozyuro, 3,649,602.
 Tsuda, Yoshizo; Yamamoto, Akinori; and Ikeda, Kozyuro, 3,649,603.
 Ikeda, Masaru: *See—*
 Negishi, Akira; Takayanagi, Kiyoshi; and Ikeda, Masaru, 3,660,082.
 Ikeda, Osamu: *See—*
 Nakazawa, Shozo; and Ikeda, Osamu, 3,705,243.
 Ikeda, Shigeo; Ishizaki, Ayaaki; Hirose, Yoshio; and Shiro, Teruo, to Ajinomoto Co., Inc. and Sanraku Ocean Co., Ltd. Method of producing L-glutamic acid by fermentation. 3,674,639, 7-4-72, Cl. 195-28.00r.
 Ikeda, Tadashi: *See—*
 Nadazawa, Yoshiyuki; Nakamura, Yashuharu; Takci, Haruo; Sato, Akira; and Ikeda, Tadashi, 3,677,765.
 Nakazawa, Giyoshiyuki; Nakamura, Yashuharu; Takci, Haruo; Sato, Akira; and Ikeda, Tadashi, 3,705,809.
 Nakazawa, Yoshiyuki; Nakamura, Yashuharu; Haruo, Takei; Sato, Akira; and Ikeda, Tadashi, 3,681,080.
 Shiba, Keisuke; Tsubota, Motohiko; Sato, Akira; Ikeda, Tadashi; and Ogawa, Akira, 3,679,428.
 Ikeda, Takuo: *See—*
 Sigiyama, Hiroshi; Ikeda, Takuo; and Itani, Takashi, 3,647,827.
 Ikeda, Takuo; Matsumoto, Otohei; and Sugiyama, Hiroshi, to Sumitomo Chemical Company, Ltd. Phenyl-azo-naphthol dyes. 3,649,615, 3-14-72, Cl. 260-199.
 Ikeda, Teppei: *See—*
 Nishio, Fumihiko; Tsuji, Nobuo; Ikeda, Teppei; and Kawaguchi, Hideo, 3,645,740.
 Ikeda, Tetsusaburo, to Iwatsu Electric Co., Ltd. Apparatus for feed-in pen-driving current. 3,683,411, 8-8-72, Cl. 346-139.000.
 Ikeda, Tomoyasu. Intermittent driving device. 3,638,508, 2-1-72, Cl. 74-426.
 Ikeda, Toshimichi, to Hitachi Construction Machinery Co., Ltd. Hydraulic circuit of hydraulically driven vehicle. 3,659,419, 5-2-72, Cl. 60-53.
 Ikeda, Yoneichi; Hattori, Michio; and Kiyomiya, Yutaka, to Nitto Chemical Industry Co., Ltd. Process for the removal of unreacted ammonia. 3,649,179, 3-14-72, Cl. 23-119.
 Ikeda, Yoneichi; Takeda, Tsukasa; Hattori, Michio; Kiyomiya, Yutaka; and Yamamoto, Takashi, to Nitto Chemical Industry Co., Ltd. Method for separating acrylonitrile and acetonitrile by extractive distillation with coolant vapor generation. 3,694,322, 9-26-72, Cl. 203-25.000.
 Ikeda, Yoshiaki: *See—*
 Nitta, Yoshihiro; Ikeda, Yoshiaki; Furue, Toshiyuki; and Shimizu, Takeshi, 3,642,798.
 Nitta, Yoshihiro; Ikeda, Yoshiaki; Furue, Toshiyuki; Shioya, Akitoshi; Sugano, Shigeru; and Shiraki, Yasuyuki, 3,663,548.
 Ikeda, Yoshiro: *See—*
 Kitano, Ichiro; Koizumi, Ken; Ikeda, Yoshiro; and Matsumura, Hiroyoshi, 3,650,598.
 Ikeda, Yoshitsugi, to Olympus Optical Co., Ltd. Telephotographic objective having six lenses forming four lens groups. 3,647,281, 3-7-72, Cl. 350-222.
 Ikeda, Yukisaburo: *See—*
 Kaneko, Ryuichi; Saito, Toshiya; Fujimura, Yasushi; Tanimura, Hiroshi; Nakamura, Totaro; and Ikeda, Yukisaburo, 3,676,585.
 Ikegai Tekko Kabushiki Kaisha: *See—*
 Izumi, Tadayoshi, 3,675,517.
 Togashi, Shozo; Makijima, Yoshijima; Tanaka, Ikuo; and Narita, Kaoru, 3,643,396.
 Ikegai Tekko Kabushiki Kaisha (Ikegai Iron Works, Ltd.): *See—*
 Aihara, Kenzo, 3,661,432.
 Ikegaki, Makoto: *See—*
 Tsuneta, Asahide; Ohta, Yasuo; Ikegaki, Makoto; Sawagata, Shinichi; and Sato, Fumiyuki, 3,659,133.
 Tsuneta, Asahide; and Ikegaki, Makoto, 3,663,854.
 Ikegami, Hideo, to Fujitsu Limited. Gaseous discharge device utilizing cyclotron resonance of electron display. 3,706,912, 12-19-72, Cl. 315-169.0tv.
 Ikegami, Hidetsugu: *See—*
 Takumi, Kenji; Yamamoto, Hisashi; and Ikegami, Hidetsugu, 3,681,599.
 Ikegami, Kazutoshi; Ikeda, Hideo; Takeuchi, Kazumi; Kitamura, Kosuke; and Takahashi, Susumu, to Hitachi, Ltd. Control device with a plurality of controlling units which are simply adjustable both individually and simultaneously to desirable conditions. 3,68,179, 3-7-72, Cl. 325-399.
 Ikegami, Renpei: *See—*

- Suzuki, Yasuhiro; Ikegami, Renpei; and Kishimoto, Takuo, 3,647,090.
- Ikegami, Seiji; and Ueda, Ichiro, to Matsushita Electric Industrial Co., Ltd. Piezoelectric ceramic composition. 3,642,637, 2-15-72, Cl. 252-62.9.
- Ikegami, Shigeru: *See—*
- Fuji, Saburo; Saji, Yasuo; Yamada, Kozo; Makita, Zenji; and Ikegami, Shigeru, 3,689,621.
- Yoshida, Masatoshi; Saji, Yasuo; Saito, Kazuhisa; and Ikegami, Shigeru, 3,701,819.
- Ikegami, Yoshio: *See—*
- Otani, Yasuhiko; Ikegami, Yoshio; and Fujio, Tadami, 3,684,202.
- Otani, Yasuhiko; and Ikegami, Yoshio, 3,695,526.
- Ikegami, Yoshio; Abe, Kuniomi; Nagai, Maskazu; Fukuda, Susumu; and Kakei, Takehiko, to Fuji Photo Film Co., Ltd. Electromagnetic shutter mechanism for a camera. 3,633,484, 1-11-72, Cl. 95-53.
- Ikegawa, Hiroyuki: *See—*
- Yagi, Eiichi; Kojima, Kenko; Ikeda, Hisayuki; Yauchi, Shiro; Shimizu, Tsutomu; Tamalate, Tokutaro; and Ikegawa, Hiroyuki, 3,680,841.
- Ikejima, Yoritaka: *See—*
- Yamada, Norio; Tanaka, Yoshimasa; Ono, Taisuke; and Ikejima, Yoritaka, 3,675,324.
- Ikemoto, Masahiko; Ito, Kiyoshi; Kimura, Kazuhiko; and Nakanishi, Teruo, to Kakenyaku Kako Kabushiki Kaisha. Process for the preparation of O-ethyl-O-p-nitrophenyl-ethylphosphonate. 3,662,036, 5-9-72, Cl. 260-96.9.
- Ikemoto, Norio: *See—*
- Isogai, Tokio; Isikawa, Eiichi; Yuza, Hisashi; Tahara, Takasi; Miyashita, Takao; and Ikemoto, Norio, 3,654,543.
- Iketani, Koichi: *See—*
- Takagi, Kazumi; Murakami, Masahiro; and Iketani, Koichi, 3,666,816.
- Iketani, Tadanao: *See—*
- Uchida, Mitsuo; Iketani, Tadanao; and Mitani, Naoyuki, 3,692,048.
- Iketani, Taisho. Device for automatically and periodically spraying pressurized liquid. 3,684,133, 8-15-72, Cl. 222-54.000.
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- Ikeuchi, Akihiro: *See—*
- Sekiguchi, Takashi; Tokiura, Shohei; Ogihara, Sadahide; Yamamoto, Rokuro; and Ikeuchi, Akihiro, 3,638,824.
- Ikeuchi, Hiroshi, to Denki Onkyo Co., Ltd. Saturable reactor for correcting raster distortion. 3,681,725, 8-1-72, Cl. 335-227.000.
- Ikeuchi, Hiroshi, to Denki Onkyo Co., Ltd. Convergence apparatus for use in color television cathode ray tubes. 3,684,989, 8-15-72, Cl. 335-210.000.
- Ikkaku, Kunihiro: *See—*
- Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiro; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,632,671.
- Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiro; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,657,046.
- Ikoma, Masanobu, to Shinetsu Chemical Company. Method for emulsion polymerization of organosiloxanes. 3,697,469, 10-10-72, Cl. 260-29.2.
- Ikor, Incorporated: *See—*
- Mitchell, Peter G., 3,681,656.
- Ikrath, Kurt: *See—*
- Acker, Morris; Ikrath, Kurt; and Schneider, Wilhelm A., 3,646,562.
- Ikumo, Masahiko: *See—*
- Kurihara, Sumio; Araki, Kazumi; Ueda, Hiroyuki; and Ikumo, Masahiko, 3,632,474.
- Kurihara, Sumio; Araki, Kazumi; Ueda, Hiroyuki; and Ikumo, Masahiko, 3,668,073.
- Ikuo, Yorio; Okabayashi, Minoru; Ono, Keisuke; Mizugaki, Yoshikazu; and Hayashi, Juntaro, to Hitachi Shipbuilding and Engineering Co., Ltd. Overhead traveling sandslinger. 3,674,129, 7-4-72, Cl. 198-44.000.
- Ilagan, Perlita A.: *See—*
- Erby, William A.; Thorsell, Paul W.; and Ilagan, Perlita A., 3,661,796.
- Ilardo, Charles S.: *See—*
- Hindersinn, Raymond R.; and Ilardo, Charles S., 3,645,953.
- Hindersinn, Raymond R.; Hopkins, George C.; and Ilardo, Charles S., 3,689,456.
- Ilayashenko, Georgy Alexandrovich; Laventman, Vilyam Efimovich; Lichman, Nikolai Iosifovich; Rabinovich, Iosif Moiseevich; and Ryaboi, Nikolai Yakovlevich. Plastic moulding machine. 3,632,281, 1-4-72, Cl. 18-30.
- ILC Industries, Inc.: *See—*
- Durney, George P., 3,667,459.
- Durney, George P., 3,699,589.
- Hill, Rodney S., 3,688,314.
- Redden, Robert J., 3,682,225.
- Redden, Robert J., 3,698,045.
- Shepard, Leonard F., 3,667,460.
- Ilico Corporation: *See—*
- Adler, Norman R., 3,705,739.
- Scndrowski, Edward J.; and Maki, Jacob K., 3,651,673.
- Ileks, Eugene. Hand weaving loom. 3,665,971, 5-30-72, Cl. 139-33.000.
- Iler, Ralph K.: *See—*
- Chay, Dong M.; and Iler, Ralph K., 3,676,086.
- Iler, Ralph K.; and Rigby, Eugene B., to Du Pont de Nemours, E. I., and Company. Heterogeneous cobalt-bonded tungsten carbide. 3,660,050, 5-2-72, Cl. 29-182.8.
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- Iles, Brian Rodney: *See—*
- Oakes, Vincent; and Iles, Brian Rodney, 3,665,024.
- Iles, Frank. Pumps. 3,674,383, 7-4-72, Cl. 417-476.000.
- Iles, Gerald S.: *See—*
- Casale, Mira E. A.; Collier, Owen N.; and Iles, Gerald S., 3,637,530.
- Iles, Peter Albert, to United States of America, National Aeronautics and Space Administration. Method of coating solar cell with borosilicate glass and resultant product. 3,653,970, 4-4-72, Cl. 136-89.
- Ilex Optical Company, Inc.: *See—*
- Lewis, Donald E., 3,696,726.
- Lynch, Geraldine B.; and Carlough, Warren A., 3,687,522.
- Ilford Limited: *See—*
- Alcock, David Gerald; Brown, John Colin; Piccotti, Enzo; and Iungius, Vorman John, 3,702,248.
- Brand, Boris Peter, 3,701,661.
- Brown, John Colin; and Cheer, Roy Anthony, 3,677,761.
- Chapman, Eric George Arthur, 3,668,962.
- Douglas, David Ramsay, 3,666,475.
- Harris, Albert Edward; and Blundell, Ian, 3,697,278.
- Hercocck, Robert James; and Scrutton, Simon Lindsay, 3,701,731.
- Lee, Edward William; Tatchell, Keith Reid; Challis, Kenneth John; and Cockerton, Kenneth Archibald, 3,701,680.
- Macdonald, Eric, 3,645,737.
- MacDonald, Eric; and Campbell, Frederick, 3,698,908.
- Piccotti, Enzo, 3,701,662.
- Pratt, John McDonald; and Whitecar, Brian Ronald David, 3,701,660.
- Sharples, Allan; Roston, Arthur John; and Mc Gibbon, Graeme, 3,676,688.
- Williams, Alun Trefor Rhys; and Alcock, David Gerald, 3,702,247.
- Wood, Henry Walter, 3,653,906.
- Wood, Henry Walter, 3,655,384.
- Wood, Henry Walter, 3,655,386.
- ILG Industries Inc.: *See—*
- Lov, William L.; and Blood, Ned, 3,653,116.
- Ilichev, Valery Alexandrovich: *See—*
- Samodaev, Evgeny Timofeevich; Verchenko, Vasily Romanovich; Gorjunov, Vladimir Ivanovich; Andrikanis, Vladimir Konstantinovich; Ilichev, Valery Alexandrovich; Gavrin, Mikhail Grigorievich; and Binkou, Georgy Aronovich, 3,689,351.
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- Bredereck, Hellmut F. I.; Iliopulos, Miltiadis I.; and Wieder, Horst F., 3,702,879.
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- Ill, Manfred: *See—*
- Zippel, Christof; and Ill, Manfred, 3,679,335.
- Illyeni, Andras: *See—*
- Husztly, Dencs; and Illyeni, Andras, 3,648,801.
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- Gronwick, Jerry P.; Illian, Douglas F.; and Westphal, Donald J., 3,691,660.
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- McFarland, Otho K.; Illich, George M., Jr.; and Ling, Wilfred C., 3,689,222.
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- Illingsworth, Bernard D., 3,632,340.
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- Bloch, Herman S.; Illingworth, George E.; and Lester, George W., 3,681,424.
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- White, Irvine Everard, 3,651,978.
- Illini Building Systems, Inc.: *See—*
- Studzinski, James D., 3,662,509.
- Illinois Railway Equipment Company: *See—*
- Nadherny, Rudolph E.; and Smith, Edward Payson, 3,663,025.
- Sweger, Theodore J., 3,670,663.
- Illinois Tool Works Inc.: *See—*
- Achten, Kort Joseph, 3,697,931.
- Andrews, Donald E.; Heck, Daniel C.; and Pestka, John A., 3,707,318.
- Belansky, Rudolph J., 3,656,320.
- Bernin, Victor M., 3,638,221.
- Bernin, Victor M., 3,638,222.
- Bernin, Victor M., 3,698,531.
- Biesecker, Donald Leslie, 3,666,342.
- Bjorklund, Lowell L., 3,678,979.
- Chapman, Robert Dean; and Grant, Swick Edwin, 3,651,704.
- Collier, Frank J., 3,700,135.
- Cunningham, Ernest R.; and Stockdale, William D., 3,687,020.
- Deasy, Raymond E., 3,700,275.
- Dodson, Marshall A.; and Flair, Henry J., 3,633,831.
- Elliott, Phillip M., 3,691,333.
- Erickson, Lloyd A., 3,646,669.
- Erlendbach, Walter, 3,670,297.
- Gutshall, Charles E., 3,678,980.
- Hamman, Denver C., 3,703,747.
- Klygis, M. Julius, 3,680,905.
- Klygis, Mindaugas Julius, 3,700,276.
- Kurz, William I., 3,683,509.
- Lacey, Robert L., 3,698,681.
- Landuyt, John F., 3,675,243.
- Lanius, James Curtis, Jr., 3,699,841.
- Melone, Robert R., 3,683,347.
- Mullaney, Jerry Allen, 3,691,897.
- Owen, Ronald Charles, 3,653,610.
- Pelletiere, Thomas James, 3,702,491.
- Pestka, John A.; and Huggins, James A., 3,650,266.
- Pestka, John A.; and Erickson, Lloyd A., 3,701,302.
- Pomernacki, Henry, 3,632,268.
- Pomernacki, Henry, 3,661,312.
- Pomernacki, Henry; and Saari, Oliver E., 3,661,313.
- Rayburn, Charles C., 3,638,086.
- Rayburn, Charles C., 3,641,640.
- Rayburn, Charles C., 3,648,132.
- Rayburn, Charles C., 3,654,532.
- Ryder, Francis Eugene; and Gordon, Ronald Orville, 3,657,491.
- Saari, Oliver E., 3,631,736.
- Saari, Oliver E.; and Pomernacki, Henry, 3,636,707.
- Saari, Oliver E., 3,667,222.
- Sygnator, Henry A., 3,662,805.
- Sygnator, Henry A., 3,705,442.
- Wagner, David P., 3,687,184.
- Wagner, David P., 3,693,495.
- Waud, Cornelius Byron; and Gruca, Ned J., 3,661,046.
- Waud, Cornelius Byron, 3,682,507.
- Wornke, Louis J.; and Pestka, John A., 3,701,373.
- Illman, Peter; and Roberts, Arthur G., to Mallory, P. R., & Co. Inc. Intermittent motion transmission. 3,648,529, 3-14-72, Cl. 74-112.
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- Fusco, Vito A.; Ogden, Charles T.; and Illman, Walter F., 3,668,852.
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- Illumino Devices, Inc.: *See—*
- Shaw, George, 3,638,898.
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- Ilseeder Hutte: *See—*
- Bock, Ernst; Majewski, Martin; and Bartels, Wilhelm (said Majewski and said Bartels assors. to), 3,653,246.
- Hanig, Siegfried, 3,656,690.
- Ilseeder Hutte, Firma: *See—*
- Hanig, Siegfried; and Langer, Alfred, 3,673,806.
- Ilitis, Charles O., to Kimberly-Clark Corporation. Method of making a two-sided towel. 3,684,603, 8-15-72, Cl. 156-152.000.
- IMA Klessmann: *See—*
- Koehler, Walter, 3,636,815.
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- Nakao, Yoshio; Kuno, Mitsuzo; Yamatodani, Saburo; Imada, Isuke; and Morimoto, Hiroshi, 3,658,648.
- Imada, Katsumi: *See—*
- Oga, Shunichiro; Asano, Kazuo; and Imada, Katsumi, 3,654,316.
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- Matsuura, Hideo; Imagawa, Katsuhiko; and Murase, Yoshihiko, 3,669,214.
- Image Analysing Computers Limited: *See—*
- George, David Sydney, 3,652,146.
- Pieters, Leon Andre, 3,683,108.
- Image Products Corporation: *See—*
- Applequist, James E.; Johnson, James E.; Okers, Clifford B.; Daniels, Donald V.; James, Richard N.; Roberts, Daniel M.; and Guzy, Daniel James, 3,688,656.
- James Richard N.; Applequist, James E.; and Roberts, Daniel M., 3,644,922.
- Image Systems, Inc.: *See—*
- Harlow, Norman E., 3,670,885.
- Image Systems, Inc., mesne: *See—*
- Hagan, James P., 3,631,978.
- Image Corporation, The: *See—*
- Gruber, Frank R., 3,678,819.
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- Imahori, Seiichi: *See—*
- Okada, Hitoshi; Imahori, Seiichi; and Hirako, Susumu, 3,697,525.
- Imahori, Yoshiyuki: *See—*
- Kimura, Hiroshi; Nambu, Takeshi; Inoue, Kiyoshi; Imahori, Yoshiyuki; Yamaguchi, Kenryo; and Umeno, Kyojo, 3,692,384.
- Imahori, Yutaka: *See—*
- Kamegaya, Takeo; Imahori, Yutaka; Ohta, Akira; Kanoh, Tadao; and Ohara, Akio, 3,670,195.

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- Imai, Hiroko: *See—*
- Funada, Kiyotaka; Shinohara, Takashi; and Imai, Hiroko, 3,672,940.
- Kamiya, Nobuyuki; Funada, Kiyotaka; Shinohara, Takashi; and Imai, Hiroko, 3,664,860.
- Imai, Hirozo: *See—*
- Hara, Kazuhiko; and Imai, Hirozo, 3,648,028.
- Imai, Hisao, to Goji Paper Mfg. Co., Ltd. Crystal paper having metallic luster. 3,647,518, 3-7-72, Cl. 117-71.
- Imai, Kazuo: *See—*
- Murakami, Masuo; Kawahara, Shigemi; Inukai, Noriyoshi; Ishida, Sanae; Imai, Kazuo; and Ozasa, Teruaki, 3,687,950.
- Imai, Kinichi: *See—*
- Yoshioka, Yoshio; Imai, Kinichi; Aoki, Hisashi; and Toda, Jun, 3,682,887.
- Imai, Kiyoshi: *See—*
- Koori, Shigeyoshi; Inomata, Hiroshi; and Imai, Kiyoshi, 3,686,731.
- Wada, Tadashi; Itoh, Kunio; Imai, Kiyoshi; and Inomata, Hiroshi, 3,699,073.
- Imai, Masaru; and Ohkawa, Tokio. Guitar. 3,690,210, 9-12-72, Cl. 84-267.000.
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- Minami, Tohru; Nishio, Mikio; Toyama, Ichiro; Kawano, Shigeyoshi; Imai, Masumi; Takuma, Yutaka; and Kitanosono, Hidehiro, 3,688,555.
- Imai, Mitsuo; Shimanaka, Hiroshi; and Irie, Toshio, to Kawasaki Steel Corporation. Reagent for forming an insulating coating on the surface of electrical steel sheets. 3,649,372, 3-14-72, Cl. 148-6.16.
- Imai, Nobuhiro: *See—*
- Goshima, Takeshi; and Imai, Nobuhiro, 3,670,992.
- Goshima, Takeshi; Ohta, Shoji; and Imai, Nobuhiro, 3,687,395.
- Imai, Norio: *See—*
- Senoo, Saburo; Kato, Toshio; Imai, Norio; and Kurihara, Masakazu, 3,642,867.
- Imai, Ryoichiro; and Kawai, Yoshihiko, to Nippon Kokan Kabushiki Kaisha. Method of deoxidizing steel. 3,645,720, 2-29-72, Cl. 75-58.
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- Shiba, Keisuke; Hinata, Masanao; Yoshida, Makoto; Imai, Shinichi; Sato, Akira; and Watanabe, Shigaru, 3,682,640.
- Yoshida, Makoto; and Imai, Shinichi, 3,687,673.
- Imai, Shiro: *See—*
- Fukui, Kakichi; and Imai, Shiro, 3,638,468.
- Taniguchi, Tetsuji; Fukui, Kakichi; Imai, Shiro; Hayashi, Masahiro; and Seki, Koichi, 3,678,722.
- Imai, Tadayuki: *See—*
- Fujimoto, Sakae; and Imai, Tadayuki, 3,667,365.
- Imai, Tadayuki, to Kabushiki Kaisha Ricoh. Mechanism for coupling the exposure meter to the aperture diaphragm control means in an interchangeable lens of a single-lens reflex camera. 3,685,419, 8-22-72, Cl. 95-64.00r.
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- Shibata, Hiroshi; Imai, Teruo; and Kumaki, Shigeji, 3,663,385.
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- Imai, Tunemichi: *See—*
- Ueda, Terumori; and Imai, Tunemichi, 3,654,785.
- Imai, Yoshio; Matsumura, Haruki; Yurugi, Shojiro; and Miyake, Akio, to Takeda Chemical Industries, Ltd. Oxadiazole derivatives. 3,697,530, 10-10-72, Cl. 260-295.00r.
- Imaizumi, Ichiro: *See—*
- Taniguchi, Kenji; Imaizumi, Ichiro; and Hotta, Atsuo, 3,657,575.
- Imaizumi, Kaneyoshi. Blind. 3,658,112, 4-25-72, Cl. 160-172.
- Imajyo, Yasutaka: *See—*
- Iida, Masachika; and Imajyo, Yasutaka, 3,646,488.
- Imajyo, Yasutaka, to Tokyo Shibaura Electric Co., Ltd. Current limiting device. 3,699,489, 10-17-72, Cl. 337-21.000.
- Imamura, Hiroshi: *See—*
- Nakanishi, Michio; Tahara, Tetsuya; Imamura, Hiroshi; and Maruyama, Yutaka, 3,655,681.
- Nakanishi, Michio; Tahara, Tetsuya; Imamura, Hiroshi; and Maruyama, Yutaka, 3,655,682.
- Imamura, Hiroyuki: *See—*
- Iwama, Masakuni; Fujiwara, Mitsuo; Kojima, Tamotsu; Imamura, Hiroyuki; and Yamamoto, Toshihiko, 3,658,545.
- Imamura, Hitoshi; and Katiuri, Keini, to Tokyo Shibaura Electric Co., Ltd. Color television tube shadow mask support studs unequally spaced from screen. 3,660,709, 5-2-72, Cl. 313-85.
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- Imamura, Masatogu: *See—*
- Chikatsu, Tatsusuke; Shimokawa, Shinichi; Yoshida, Yoshinori; Imamura, Masatogu; Nishiwaki, Ituo; Akimoto, Toshio; and Fujiwara, Tatsuji, 3,692,861.
- Imamura, Shigeoshi: *See—*
- Gotohda, Masao; Araki, Kunio; Imamura, Shigeoshi; and Shibabe, Sadami, 3,634,218.
- Imanaka, Hiroshi: *See—*
- Arima, Kei; Tamura, Gakuzo; Imanaka, Hiroshi; Kousaka, Masanobu; and Fukuda, Akio, 3,699,121.
- Imanishi, Kaoru: *See—*
- Higashida, Yutaka; and Imanishi, Kaoru, 3,703,612.
- Imanishi, Kosaku: *See—*
- Kodama, Reiji; Nakasui, Yugo; and Imanishi, Kosaku, 3,660,571.
- Imanishi, Masakazu; Kondou, Kenzi; and Sugiura, Ituo, to Tokyo Shibaura Electric Co., Ltd. Electric pencil sharpener. 3,678,975, 7-25-72, Cl. 144-28.500.
- Imanishi, Mashiko: *See—*
- Shibata, Motoo; Yamamoto, Hiroichi; Higashide, Eiji; Mizuno, Komei; Imanishi, Mashiko; and Miyake, Akira, 3,678,161.
- Imaseki, Isumi: *See—*
- Tsumura, Jusha; Imaseki, Isumi; and Nagasawa, Michio, 3,692,896.
- Imasen Electric Industrial Co., Ltd.: *See—*
- Nishioka, Kenichi, 3,697,946.
- Imashiro, Yoshio; and Masuda, Katsutada, to Takeda Chemical Industries, Ltd. 3-Hydrocarbon-4-tertiary amino methyl sydnones. 3,642,793, 2-15-72, Cl. 260-247.5.
- Imataki, Norio: *See—*
- Kumura, Teruhiko; Imataki, Norio; Hasui, Katuyuki; Inoue, Takeo; and Yasutomi, Kimiaki, 3,650,704.
- Imatt, Alex; and Brand, Derek. Elevated and concealed sprinkler system. 3,701,477, 10-31-72, Cl. 239-276.000.
- Imazeki, Ryoji: *See—*
- Inaba, Seiemon; Yoshitake, Norito; Imazeki, Ryoji; and Kozai, Yoshinori, 3,636,525.
- Yoshitake, Norito; Imazeki, Ryoji; and Ishida, Hiroshi, 3,705,418.
- Imber, Pierre: *See—*
- Delmas, Pierre; and Imber, Pierre, 3,695,764.
- Imbert, Pierre: *See—*
- Pietrucci, Andre; and Imbert, Pierre, 3,659,620.
- Imco, Inc.: *See—*
- Cobly, Herbert T., 3,662,962.
- I.M.I. Division of Becton, Dickinson and Company: *See—*
- Doniguan, Thaddeus M., 3,666,650.
- Doniguan, Thaddeus M., 3,680,557.
- Imler, Vaughn Roger: *See—*
- Johnson, Randall Scott; and Imler, Vaughn Roger, 3,682,613.
- Immel, Otto: *See—*
- Mansmann, Manfred; Zirngibl, Hans; and Immel, Otto, 3,632,575.
- Mansmann, Manfred; Immel, Otto; and Zirngibl, Hans, 3,652,553.
- Immel, Ralph B.; and Collins, James D., to Westinghouse Electric Corporation. Indicator light-resistor mounting assembly. 3,685,049, 8-15-72, Cl. 340-381.000.
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- Immenroth, Otto; and Eschbach, Robert C., to Axelson Fishing Tackle Mfg., Co. Method of making roller tups for fishing rods. 3,691,616, 9-19-72, Cl. 29-434.000.
- Immethun, Peter A.: *See—*
- Malec, Robert E.; and Immethun, Peter A., 3,637,501.
- Immont Corporation: *See—*
- Weisfeld, Joseph; Tringali, Alfred M.; Ackerman, Joseph F.; and Bernardo, Joseph J., 3,650,997.
- Imoehl, Wolfgang; and Borner, Peter, to Schering AG. Hardening of polyepoxy compounds with dicyandiamide and a heterocyclic secondary amine accelerator. 3,655,617, 4-11-72, Cl. 260-47.
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- Impact Plastics, Inc.: *See—*
- Murray, Coyt E.; and Boyter, Walter C., 3,646,746.
- Murray, Coyt E., 3,646,973.
- Imparato, Luigi; Rossi, Enzo; and Del Ross, Sergio, to Snam Progetti S.p.A. Zinc dithiophosphates. 3,654,329, 4-4-72, Cl. 260-429.9.
- Impastato, Frank Anthony. Board game apparatus. 3,642,285, 2-15-72, Cl. 273-134.
- Impastato, Leona Rocha. Instrument for altering garment patterns. 3,639,988, 2-8-72, Cl. 33-11.
- Imperato, Joseph, to Sport Games, Inc. Model airplane. 3,654,729, 4-11-72, Cl. 46-80.
- Imperial Camera Corporation: *See—*
- Irwin, George, 3,665,827.
- Irwin, George, 3,688,671.
- Imperial Chemical Industries Limited: *See—*
- Abbott, Norman Basil; and Chapman, Charles Brian, 3,684,769.
- Aldridge, David Cecil; Broadbent, Douglas; Hemming, Harold George; Turner, William Brian; and Bent, Keith Joseph, 3,661,935.
- Anderson, Norman Stewart, 3,702,280.
- Andrew, Herbert Francis; and Higginbottom, Robert, 3,646,002.
- Andrew, Herbert Francis; and Stead, Cecil Vivian, 3,647,778.
- Andrew, Herbert Francis; and Jackson, Neville, 3,664,995.
- Andrews, Timothy Douglas; Short, Glyn David; and Thomas, Ieuan, 3,671,250.
- Andrews, Timothy Douglas; Short, Glyn David; and Thomas, Ieuan, 3,697,528.
- Ashton, Stanley; and Nicholson, Eric Samuel, 3,665,004.
- Ashworth, Brian Thomas; Harper, Donald; and Hill, Peter, 3,642,727.
- Atherton, John Heathcote; and Plumb, John Beckett, 3,700,713.
- Averill, Frederick John; and Riley, Norman, 3,674,852.
- Bagai, Satish Kumar; and Topham, Arthur, 3,647,496.
- Bain, Thomas William, 3,682,042.
- Baker, Alan Stuart; and Water, Julian Alfred, 3,661,835.
- Baker, Alan Stuart; and Walbridge, Derek John, 3,669,939.
- Baker, Ronald; and Storer, Thomas Kirkly, 3,691,164.
- Baldwin, Tony Lewis; and Burton, Roy Harold, 3,646,745.
- Barlow, George Edward; Checkland, Peter Bernard; and Edington, Robert Alexander, 3,651,193.
- Barnett, Gerald Wilton; and Inshaw, John Leslie, 3,666,501.
- Baron, Thomas Douglas; and Fishwick, Brian, 3,637,651.
- Barr, Dennis Arthur; and Rose, John Brewster, 3,634,355.
- Barrett, Arthur Michael; Carter, John; Hull, Roy; Le Count, David James; and Squire, Christopher John, 3,663,607.
- Bates, John Richard, 3,662,055.
- Batty, John Woolley; Chadwick, Eric Milton; and Crook, James William, 3,644,535.
- Beddoe, Brian; and Hackling, David Charles, 3,688,957.
- Bent, Christopher James; Flynn, Terence David; and Glover, Brian, 3,702,752.
- Bent, Keith Joseph; and Cox, John Michael, 3,682,971.
- Bergwerk, Walter, 3,681,826.
- Berrie, Alistair Howard; and Hughes, Nigel, 3,640,674.
- Berrie, Alistair Howard; and Hughes, Nigel, 3,642,427.
- Berrie, Alistair Howard; and Hughes, Nigel, 3,657,214.
- Berrie, Alistair Howard; and Hughes, Nigel, 3,664,996.
- Beswick, Geoffrey Ernest, 3,661,982.
- Birchall, James Derek; and Cassidy, John Edward, 3,702,774.
- Bishop, Nigel Douglas; and Masters, Joan Irene, 3,641,035.
- Blake, Graham John, 3,654,208.
- Bland, Stephen William, 3,681,345.
- Bloom, Martin S., 3,693,966.
- Boardman, Guy; and Dawson, Fred, 3,639,255.
- Booth, Gerald; Smith, Trevor James; and Vellins, Cyril Eric, 3,657,284.
- Bowden, Roy Dennis, 3,651,071.
- Bowden, Roy Dennis, 3,673,199.
- Bowden, Roy Dennis, 3,704,238.
- Bremner, James Duncan; and McLellan, Ian Alexander, 3,706,826.
- Brian, Robert Coles; and Bland, Peter Douglas, 3,673,087.
- Briggs, Peter James; and Clegg, William Raymond, 3,635,904.
- Briscoe, Josiah Alfred, 3,669,552.
- Broadbent, Graham; and Mansfield, John Rickard, 3,695,113.
- Brock, James, 3,698,612.
- Brocklehurst, Peter John; and Hemingway, Eric, 3,657,139.
- Brooks, David Hugh; Cox, John Michael; and Kay, Ian Trevor, 3,646,094.
- Brooks, Martin Frederick; and Kerrigan, Vincent, 3,641,093.
- Brooks, Martin Frederick; and Kerrigan, Vincent, 3,674,828.
- Buckley, Alan; and Cassin, Christopher, 3,642,976.
- Buckley, Alan; and Thomas, Ieuan, 3,673,162.
- Buckley, Charles Harold; and Mitchell, John, 3,656,986.
- Buckley, Charles Harold; Collier, Geoffrey Lionel; and Mitchell, John, 3,660,130.
- Buckley, Charles Harold; Mitchell, John; and Collier, Geoffrey Lionel, 3,690,906.
- Burgess, Anthony Joseph; Eagles, Alan Charles; and Steel, Margaret Lillian, 3,679,506.
- Burrows, Harold George; and Ingham, Philip Brierley, 3,665,054.
- Bush, Stephen Frederick; Shires, Michael John; Johnson, Frank Williams; and Williams, Richard Anthony, 3,707,547.
- Buteux, Richard Harold Barclay, 3,644,610.
- Buteux, Richard Harold Barclay, 3,700,540.
- Byrd, Geoffrey Charles Morton, 3,695,827.
- Cairns, John Francis, 3,642,790.
- Cairns, John Francis, 3,706,752.
- Campbell, Alastair; Robinson, Peter; and Tipping, James William, 3,661,788.
- Campbell, Alastair; and Robinson, Peter, 3,676,507.
- Campbell, Alastair; and Carruthers, Rosemary Angela, 3,706,816.
- Carby, John Gerard; and Colchester, John Edward, 3,644,383.
- Caunt, Anthony David, 3,645,995.
- Chinchen, Godfrey Charles; and Hicks, Thomas Cecil, 3,650,713.
- Clapson, Brian Edward, 3,637,003.
- Clark, Duncan; and Hayden, Percy, 3,637,867.
- Clark, Duncan; and Hayden, Percy, 3,641,162.
- Clarke, Kenneth; and Bevan, Ronald, 3,699,621.
- Clarke, Michael Raymond; Osmond, Desmond Wilfrid John; and Waite, Frederick Andrew, 3,691,123.
- Clementson, John Joseph; and Glen, Dennis Ward, 3,707,394.
- Coats, Robert Reid; and Greenway, John Michael, 3,704,493.
- Colchester, John Edward; Carey, John Gerard; and Taylor, Michael David, 3,674,797.
- Colchester, John Edward; Cairns, John Francis; and Carey, John Gerard, 3,696,113.
- Colbourne, Neville; and Edwards, Philip Richard, 3,660,030.
- Cooke, Brian Alfred; and Magee, James Arthur, 3,699,031.
- Cooper, Michael Lakin, 3,660,150.
- Cooper, Michael Lakin, 3,660,152.
- Corbett, William Michael; Harrison, David; and Robertson, Michael Mundie, 3,661,501.
- Cornforth, David Arthur; Waddan, Dhafir Yusuf; and Williams, Derek, 3,641,106.
- Cowell, Clifton Douglas; and Martin, Karl Anthonie, 3,651,010.
- Crabtree, Allen, 3,666,759.
- Crabtree, Allen, 3,668,211.
- Craig, William Allan; and Gorton, Owen Allen, 3,684,595.
- Cuthertson, William Wilson, 3,700,400.
- Dart, Edward Charles; Foster, Richard Greogry; and Hepworth, Paul, 3,660,508.
- Davies, Gareth Morse, 3,681,493.
- Davies, George Edward; Dukes, Michael; and Johnston, Thomas Paterson, 3,655,896.
- Davis, Anthony Charles; and Fisher, Ian Stuart, 3,679,541.
- Davis, Anthony Charles; and Amos, Brian Franklyn, 3,706,195.
- Davy, Geoffrey Spencer; and Matthews, Vincent, 3,666,717.
- Dawson, Fred; Mitchell, John; Rogers, Leslie Richard; Todd, William; and Topham, Arthur, 3,661,611.
- Deans, David Robert, 3,668,834.
- Dick, William; and Gorton, Owen Allen, 3,681,156.
- Dinwoodie, Andrew Harper; and Gourlay, George, 3,637,858.
- Dixon, David Rodney; and Cunningham, John Andrew, 3,637,633.
- Dixon, David Rodney; Rose, John Brewster; and Turton, Cecil Nigel, 3,671,486.
- Dodman, David; and Woolley, John Mathers, 3,637,820.
- Dodman, David; Pearson, Kenneth William; and Woolley, John Mathers, 3,700,605.
- Downer, John Michael, 3,639,328.
- Doyle, Peter; and Stacey, Joseph Gilbert, 3,673,198.
- Doyle, Peter; and Stacey, Joseph Gilbert, 3,699,227.
- Dukes, Michael, 3,689,488.
- Dunnell, Alan Keith; Greenwood, David; and Wade, Thomas C. J., 3,686,723.
- Dunning, Robert William; Taylor, Keith Andrew; and Walker, John, 3,642,935.
- Eades, Edward Denis Michael; and Hughes, Philip Richard, 3,652,704.
- Eaton, David Crawford; and Leyland, Boris Nicholas, 3,692,711.
- Eckersley, Dennis, 3,651,055.
- Edgar, Owen Burchell; Hughes, William; Lawrance, Derek Robert; Lederer, Gerald; and Ritchie, Colin Foster, 3,679,624.
- Edington, Robert Alexander; and Aldred, Derek Harry, 3,660,202.
- Edwards, Harry, 3,676,265.
- Eggleston, Philip William, 3,676,906.
- Elliott, David Robert; and Greenway, John Michael, 3,644,968.
- Elliott, David Robert; and Greenway, John Michael, 3,696,478.
- English, Geoffrey; and Mountfield, Brian Arthur, 3,669,910.

- Entwisle, John Hubert; Lec, Denis; and Scrutton, Anthony, 3,701,724.
 Fawcett, Richard; Smith, Arthur William; and Westwood, David, 3,694,169.
 Felstead, Edward, 3,677,321.
 Fielding, Harold Crosbie, 3,632,641.
 Fielding, Harold Crosbie, 3,646,117.
 Fishwick, Brian Ribbons, 3,637,652.
 Flett, Alexander Campbell, 3,644,143.
 Flint, John Anthony; and Blake, Graham John, 3,699,068.
 Foden, Frederick Roger; and O'Mant, Derrick Michael, 3,676,464.
 Fort, Godfrey, 3,652,629.
 Foster, Richard Gregory; Joy, David Richard; Hepworth, Paul; and Dart, Edward Charles, 3,641,173.
 Foster, Richard Gregory; and Joy, David Richard, 3,642,923.
 Foster, Richard Gregory; and Hepworth, Paul, 3,646,232.
 Foster, Richard Gregory; and Hepworth, Paul, 3,660,363.
 Fox, Maurice Rayner; Stewart, Neil David; and Lockett, Alfred Peter, 3,644,137.
 Freeman, Maurice, 3,694,394.
 Freeman, Peter Frank Hilary; Markey, Roger Franklin Joseph; Peacock, Frederick Charles; and Sharpe, Stuart Peter, 3,657,247.
 Freeman, Peter Frank Hilary; Shephard, Margaret Claire; and Snell, Brian Kenneth, 3,670,077.
 Freeman, Peter Frank Hilary, 3,674,877.
 Garforth, John David, 3,636,135.
 Garforth, John David, 3,682,866.
 Garner, Paul Johnson; and Collins, Thomas Robert Stephen, 3,638,299.
 Garner, Paul Johnson, 3,690,797.
 Geoghegan, Michael Joseph Augustine; Turner, John Angus/William; Freeman, Peter Frank Hilary; and Summers, Lindsay Anderson, 3,683,087.
 Ghosh, Ranajit; Bishop, Nigel Douglas; and Bullock, Derek John William, 3,652,566.
 Ghosh, Ranajit; Bishop, Nigel Douglas; and Peacock, Frederick Charles, 3,661,930.
 Ghosh, Ranajit; and Bishop, Nigel Douglas, 3,678,167.
 Gibb, Alexander Ramsay Maund; and Darlow, Brian Benjamin, 3,632,561.
 Gilbert, David Stone, 3,684,598.
 Gilks, James Harris, 3,706,542.
 Greenhalgh, Colin William; and Newton, David Francis, 3,642,837.
 Greenhalgh, Colin William; and Newton, David Francis, 3,691,209.
 Greenway, John Michael, 3,701,246.
 Griffiths, Geoffrey; and Stead, Cecil Vivian, 3,639,662.
 Griffiths, Geoffrey; and Stead, Cecil Vivian, 3,658,782.
 Haggis, Geoffrey Arthur; Jones, Michael Edward Benet; and Knight, Michael Horace, 3,669,920.
 Hall, Alan Frank, 3,686,375.
 Harris, David Neil; Hood, Geoffrey Markham; and Sheller, Alan, 3,682,857.
 Harrison, Michael Edward; and Jones, David Charles, 3,634,319.
 Harvey, Edwin Dennis; and Lodge, Frank, 3,669,994.
 Head, Gordon Edwin; Jones, Kenneth Morgan; and Gendle, Eric, 3,647,362.
 Hepworth, Walter; and Stacey, Gilbert Joseph, 3,661,920.
 Heslop, John Richard William; and Riley, Albert Edward, 3,632,372.
 Hewertson, Warren, 3,652,503.
 Hollows, Frank Brian, 3,642,621.
 Horner, Patrick James, 3,706,794.
 Howe, Ralph; and Smith, Leslie Harold, 3,634,511.
 Hudson, Ronald Augustus, 3,672,907.
 Hughes, Gracme, 3,634,992.
 Hulley, Bernard James, 3,668,934.
 Hurlock, Ronald James; and Nicholson, Eric Samuel, 3,637,584.
 Hutchinson, Francis Gowland, 3,700,752.
 Hutton, Jonathan; and Stacey, Gilbert Joseph, 3,652,575.
 Hynds, John; Phillipson, John Maddison; and Vickers, Edward Jervis, 3,694,408.
 Inglis, Hugh Stewart, 3,644,428.
 Jack, James; Drake, John; Thompson, David Crompton; and Harris, Frederick John, 3,679,391.
 Jackson, John Ernest, 3,640,948.
 James, David, 3,645,957.
 James, David, 3,705,134.
 Jennings, Brian Edmund; Ludekens, William Louis Wallet; and Slater, Robert Edward, 3,642,680.
 Job, Brian Ernest; Pioli, Alexander Joseph Peter; and Medinger, Till, 3,654,254.
 Job, Brian Ernest; and Pioli, Alexander Joseph Peter, 3,658,859.
 Johns, William Richard, 3,661,968.
 Jones, Edward Barry; and Mather, John, 3,646,108.
 Joshi, Kamalakant Krishnarao, 3,644,447.
 Kail, John Alan Elliott, 3,663,488.
 Kail, John Alan Elliott, 3,677,811.
 Kay, Ian Trevor, 3,639,611.
 Kay, Joseph; and Blumenthal, Ernest, 3,667,902.
 Keen, William Ernest; and Kirkaldy, David, 3,642,710.
 Keith, Donald George, 3,649,398.
 Keith, Donald George; Mauck, Horst Egon Fred Ludwig; and Morris, Douglas Barrett, 3,695,959.
 Keith, Donald George, 3,706,172.
 Kennedy-Skipton, Henry Kinmy, 3,649,588.
 Key, Kenneth Andrew; and Hooper, Clive Williams, 3,656,291.
 King, John Howliston; and Smith, Frank, 3,671,415.
 King, John Howliston; and Smith, Frank, 3,679,570.
 Knight, Michael Horace, 3,671,498.
 Komander, Alfons Anzelm, 3,674,527.
 Komoly, Thomas John, 3,673,032.
 Lander, David Robin, 3,664,639.
 Landquist, Justus Kenneth; and Richardson, Dora Nellie, 3,637,856.
 Lang, George Henry, 3,651,060.
 Last, Anthony Graham Marshall, 3,677,980.
 Lawley, Herbert George; Kerr, Robert; and Curry, Duncan Cuthbertson, 3,658,920.
 Lee, Denis, 3,663,280.
 Leigh, Thomas; Thorp, Jeffrey Meyrick; and Waring, Wilson Shaw, 3,652,646.
 Leigh, Thomas; and McArdle, Leslie Arthur, 3,658,967.
 Leigh, Thomas; and Todd, Alexander Henry, 3,681,359.
 Leng, John Lindley; and Vellins, Cyril Eric, 3,632,612.
 Lodge, John Ewart, 3,652,661.
 Lord, Frank Whitley, 3,646,006.
 MacColl, Donald; and O'Pray, Hugh, 3,691,349.
 McGrath, Harry; Moore, Raymond Frederick; and Smith, Eric, 3,639,649.
 McIntosh, Bruce Murray, 3,645,082.
 Middleton, Ronald David, 3,687,904.
 Moody, Anthony Gifford; and Symcox, Robert Owen, 3,670,011.
 Moore, James, 3,666,696.
 Moore, Raymond Frederick; and Smith, Eric, 3,654,196.
 Morman, James Forrester, 3,705,589.
 Morris, Carolyn Ethel Mary, 3,666,711.
 Morris, Carolyn Ethel Mary, 3,695,915.
 Neely, John Waller, 3,681,434.
 Newton, Clifford, 3,667,258.
 Nield, Eric; and Rose, John Brewster, 3,652,726.
 Nield, Eric; and Rose, John Brewster, 3,666,720.
 Nield, Eric, 3,676,404.
 Nightingale, Douglas Daniel; and Payne, Nigel, 3,688,798.
 Nott, Robert Edward; and Lander, David Robin, 3,706,827.
 Oldham, Joseph, 3,634,362.
 O'Mant, Derrick Michael, 3,691,202.
 Osmond, Desmond Wilfred John; Wagstaff, Ian; and Waite, Frederick Andrew, 3,701,747.
 Osmond, Desmond Wilfred John; and Waite, Frederick Andrew, 3,666,430.
 Owen, Ian Thornton, 3,688,623.
 Pacini, Bruno Marcio; Price, Desmond Alfred; and Parikh, Anil Chandrakant, 3,675,408.
 Palluel, Auguste Louis Lucienne, 3,673,137.
 Parr, William Geoffrey, 3,638,329.
 Penfold, John, 3,639,303.
 Pickles, Cynthia Joan; and Bishop, Nigel Douglas, 3,705,914.
 Pioli, Alexander Joseph Peter; Hollyhead, William Brian; and Todd, Peter Frank, 3,681,317.
 Poole, Victor David, 3,651,058.
 Porter, Kenneth; and Richardson, Brian, 3,674,744.
 Postlethwaite, Harvey Ernest, 3,695,593.
 Pratt, John McDonald; and Whitear, Brian Ronald David, 3,701,660.
 Pumphrey, Nicholas William James; and Moss, Keith Graham, 3,706,600.
 Reade, Grahame Melvin, 3,679,791.
 Richardson, Dora Nellie; Walpole, Arthur Leonard; and Paget, George Edward, 3,700,777.
 Rigby, Charles Herbert, 3,673,964.
 Roberts, Robert, 3,654,292.
 Rose, John Brewster; Mathews, Carl Fraser; Nield, Eric; and Vincent, Peter Inledon, 3,634,547.
 Rouse, William, 3,703,099.
 Sanders, Arthur Joseph, 3,639,195.
 Selwa, Tadeusz Ryszard, 3,654,118.
 Sharpe, Stuart Peter; and Snell, Brian Kenneth, 3,651,224.
 Shaw, Richard Elliott; and Ware, Michael, 3,645,806.
 Sills, Stanley Albert; and Foster, Hugh, 3,635,910.
 Sills, Stanley Albert, 3,705,207.
 Smith, Frank; and Entwisle, John Hubert, 3,676,325.
 Smith, Leslie Harold, 3,676,493.
 Snell, Brian Kenneth; and Bishop, Nigel Douglas, 3,676,443.
 Southern, Peter Fulton, 3,642,812.
 Steel, Margaret Lillian; and Cross, William Telford, 3,696,183.

- Stone, Eric William; and White, Wilfred Arthur Stephen, 3,663,160.
 Tambini, Angelo Luigi Alfredo, 3,636,149.
 Taylor, George Wright; and Wood, Derek Harold, 3,639,447.
 Thompson, Eric William; and Marshall, Michael Charles, 3,691,081.
 Thompson, Morice William, 3,639,329.
 Thompson, Morice William; and Walbridge, Derek John, 3,686,114.
 Thomson, Douglas Hogg, 3,654,223.
 Thomson, Jack, 3,686,850.
 Tittle, Barry, 3,679,757.
 Todd, Alexander Henry, 3,634,437.
 Tomlin, Clive Dudley Spencer; and Mangalji, Anil Sunderji, 3,644,388.
 Tregear, Geoffrey W.; Battaerd, Hendrik A. J.; Lang, Gunter A.; Catt, Kevin; and Niall, Hugh D., 3,700,609.
 Turner, Alan Edgar, 3,642,954.
 Waddan, Dhafir Yusuf; and Williams, Derek, 3,642,886.
 Waddan, Dhafir Yusuf; and Williams, Derek, 3,661,995.
 Waddan, Dhafir Yusuf; and Williams, Derek, 3,697,534.
 Walbridge, Derek John, 3,702,836.
 Walmsley, David Arthur Gregson; and Sampson, Roy John, 3,661,871.
 Ward, Peter Manners, 3,695,918.
 Watchorn, Noel; and Broome, Arthur William James, 3,642,488.
 Waters, Graham Thomas, 3,691,750.
 Weightman, Clive Harry, 3,660,868.
 Weston, David Frederick, 3,636,954.
 White, Brian Graham, 3,671,213.
 Wilson, Donald James; and Kenyon, Derek, 3,638,706.
 Wooler, Alan Metcalf, 3,702,274.
 Wright, Donald, 3,652,613.
 Imperial Chemical Industries of Australia and New Zealand Limited: See—
 Baklien, Asbjorn; and Gregory, Jocelyn Margaret, 3,651,088.
 Fox, Richard, 3,696,703.
 Pryor, David Ernest; and Forsyth, Bruce Adam, 3,670,085.
 Pryor, David Ernest; and Forsyth, Bruce Adam, 3,670,086.
 Roberts, Gwyneth M.; Butt, Faye E.; Baklien, Asbjorn; Gregory, Jocelyn M.; and Kuiper, Jan, 3,658,957.
 Imperial Chemical Laboratories, Limited: See—
 Essam, David Maltby, 3,694,402.
 Imperial Manufacturing and Engineering Company: See—
 Fink, Frank J., 3,668,772.
 Fink, Frank J., 3,685,131.
 Imperial Metal Industries (Kynoch) Limited: See—
 Angell, Clifford Hyde, 3,650,861.
 Chase, Michael John; and Smith, Derek Anthony, 3,686,868.
 Cotton, Joseph Bernard; Bennett, William Raymond; Bell, John Alan; and Hayfield, Peter Charles Steele, 3,645,862.
 Goosey, Richard Ernest, 3,666,453.
 Gordon, Stuart; Evans, Geoffrey Ian; and Cunliffe, Alwyn, 3,678,138.
 Kelcher, Robert William, 3,639,180.
 Mc Dougall, Ian Leitch; and Lock, Michael Charles, 3,669,905.
 Trapp, Arthur Hubert, 3,688,700.
 Wilson, Martin Norman; Smith, Peter Faraday; Walters, Colin Russell; Lewin, John David; Broomfield, Robert Walter; and Graham, Robert Leslie, 3,662,093.
 Woolcock, Alan; and Barber, Anthony Clifford, 3,657,466.
 Imperial Oil Limited: See—
 Penzes, Stephen, 3,656,938.
 Imperial Smelting Corporation (Alloys) Limited: See—
 Derham, Leslie Jack; and John, Glen Owen, 3,667,934.
 Imperial Smelting Corporation (N.S.C.) Limited: See—
 Hopkin, William, 3,665,067.
 Tilney-Bassett, Julian Frodo, 3,642,916.
 Imperial Tobacco Company (of Great Britain and Ireland) Limited, The: See—
 Sargrove, John Adolph, 3,703,902.
 Imperial-Eastman Corporation: See—
 Kotsakis, Mike D., 3,684,322.
 Kowal, Leonard J., 3,685,335.
 Maples, William A., 3,683,557.
 Rider, Thomas F., 3,666,220.
 Strybel, Richard V., 3,648,725.
 Imperial-Eastman Corporation, mesne: See—
 Kowal, Leonard J., 3,660,884.
 Kowal, Leonard J., 3,665,591.
 Impola, Clarence N.: See—
 McKillip, William J.; Culbertson, Billy M.; and Impola, Clarence N., 3,640,676.
 Improved Machinery Inc.: See—
 Carlsmith, Lawrence A.; and Hartz, Kenneth E., 3,680,845.
 Luthi, Oscar, 3,680,708.
 Luthi, Oscar; and Schleinkofer, Rudi W., 3,690,571.
 Rich, John Parker; and Carlsmith, Lawrence Allan, 3,700,548.
 Vogel, Karl E., 3,647,067.
 Improved Mechanical Products Pty. Ltd.: See—
 Dixon, Kenneth Raymond; and Sugden, David Burnett, 3,637,333.
 Impulsphysik GmbH: See—
 Frungel, Frank; and Krawarik, Peter, 3,666,945.
 Westendord, Werner, 3,668,674.
 Imre, Julius, to Imre, Inc. Wig construction employing a base of elastic and inelastic strips, 3,645,279, 2-29-72, Cl. 132-53.
 Imredy, Denis S.; and Schleipman, Fred P., to United States Catheter & Instrument Corporation. Catheter electrode for oxygen polarography, 3,682,159, 8-8-72, Cl. 128-2.00c.
 Imreff, Jozsef: See—
 Toth, Mihaly; and Imreff, Jozsef, 3,663,419.
 Imre, Inc.: See—
 Imre, Julius, 3,645,279.
 Imris, Paul. Electrical generation apparatus, 3,638,056, 1-25-72, Cl. 310-261.
 Imris, Paul, to Westinghouse Electric Corporation. Disc-centrifuge apparatus, 3,651,941, 3-28-72, Cl. 209-139.
 IMS Limited, mesne: See—
 Ogle, Robert W., 3,674,028.
 Imura, Toshinori, to Minolta Camera Kabushiki Kaisha. Camera with retractable lens barrel, 3,672,280, 6-27-72, Cl. 95-39.000.
 Imanyitov, Leonid Mikhailovich: See—
 Amosov, Pavel Evgenievich; Imanyitov, Leonid Mikhailovich; Smekhov, Vitaly Konstantinovich; and Trofimov, Valery Leonidovich, 3,666,384.
 In 'T Veld, Cornelis. Separator for liquids of different specific gravities, 3,666,108, 5-30-72, Cl. 210-305.
 Ina, Kazuo: See—
 Sakato, Yajiro; Ina, Kazuo; Yamamoto, Yukitsune; and Morishita, Harumi, 3,645,755.
 Inaba, Kohsaku; Yoshida, Seisaku; Matsura, Shoji; and Murakami, Tsukasa, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Diesel hammer, 3,679,005, 7-25-72, Cl. 173-128.000.
 Inaba, Masao: See—
 Konishi, Tatsuo; and Inaba, Masao, 3,668,492.
 Inaba, Mitigi: See—
 Hikida, Ryotaro; Awano, Taikichi; Itoh, Junichiro; Danno, Atsushi; Matsui, Masao; Inaba, Mitigi; and Isogai, Mituyuki, 3,683,659.
 Inaba, Seiueemon; Yoshitake, Norito; Imazeki, Ryoji; and Kozai, Yoshinori, to Fujitsu Limited. Time shared numerical controller for simultaneous control of a plurality of machine tools, 3,636,525, 1-18-72, Cl. 340-172.5.
 Inaba, Seiueemon; and Kobayashi, Kengo, to Fujitsu Limited. Tool selection system, 3,657,627, 4-18-72, Cl. 318-601.
 Inaba, Seiueemon; Shimizu, Kanryo; and Hashimoto, Yoshihiro, to Fujitsu Limited. Numerical control system for eliminating pitch error and backlash of the feeding mechanism, 3,668,377, 6-6-72, Cl. 235-151.11.
 Inaba, Shigeo: See—
 Arasaki, Seitetsu; Yamamoto, Hisao; and Inaba, Shigeo, 3,647,785.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,632,573.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,632,574.
 Yamamoto, Hisao; Inaba, Shigeo; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Maruyama, Isamu; and Mori, Kazuo, 3,632,805.
 Yamamoto, Hisao; Inaba, Shigeo; Hirohashi, Toshiyuki; Akatsu, Mitsuhiro; Maruyama, Isamu; and Izumi, Takahiro, 3,634,402.
 Yamamoto, Hisao; Kitagawa, Sumio; Inaba, Shigeo; Sakai, Shigeru; Hirohashi, Toshiyuki; Maruyama, Isamu; Akatsu, Mitsuhiro; and Izumi, Takahiro, 3,641,002.
 Yamamoto, Hisao; Inaba, Shigeo; Arasaki, Seitetsu; Maruyama, Isamu; Takahashi, Kei; Saito, Chiharu; and Sakai, Shigeru, 3,651,230.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,652,551.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,658,809.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,663,534.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,697,508.

- Yamamoto, Hisao; Inaba, Shigeho; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Izumi, Takahiro, 3,702,321.
- Yamamoto, Hisao; Inaba, Shigeho; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Izumi, Takahiro, 3,702,323.
- Inaba, Shigeho; Okamoto, Tadashi; Hirohashi, Toshiyuki; Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Yamamoto, Hisao, to Sumitomo Chemical Company, Limited. Production of benzodiazepine derivatives. 3,666,643 5-30-72, Cl. 204-158.000.
- Inaba, Shigeho; Akatsu, Mitsuhiko; and Yamamoto, Hisao, to Sumitomo Chemical Company, Ltd. 1-Hydroxyalkyl-2-aminomethyl-indole derivatives. 3,674,808, 7-4-72, Cl. 260-326.150.
- Inaba, Yoshinari: See—
Yamadai, Tadaaki; Kushida, Tadao; Konishi, Hiroshi; and Inaba, Yoshinari, 3,673,631.
- Inacker, Edward C. Multiple compartment dispensing box. 3,703,955, 11-28-72, Cl. 206-42.000.
- Inacker, Frederick T.: See—
Ammon, John P.; and Inacker, Frederick T., 3,671,917.
Ammon, John Preston; and Inacker, Frederick T., 3,660,726.
- Inacker, Frederick T., to Elco Corporation. Card-edge connectors with contacts interconnected by bus bar. 3,634,814, 1-11-72, Cl. 339-176.
- Inada, Hitoshi: See—
Nagafuchi, Kazumi; Inada, Hitoshi; Ohmura, Nobuaki; Manago, Seiji; Tsunashima, Asaji; and Hazu, Masataka, 3,636,787.
- Inada, Koji: See—
Seko, Maomi; Yomiyama, Akira; Miyake, Tetsuya; Nakagawa, Koji; Yoshida, Muneko; and Inada, Koji, 3,657,099.
- Inada, Masami: See—
Okamoto, Toshiaki; Inada, Masami; and Mori, Koziro, 3,650,574.
Okamoto, Tosiaki; Inada, Masami; Takayama, Katuki; Hayashi, Tatsuo; Nishida, Koji; Sakakibara, Naoki; and Kamiya, Masao, 3,656,817.
- Okamoto, Tosiaki; and Inada, Masami, 3,667,811.
- Inada, Masami; Hayashi, Tatsuo; and Takayama, Katuki, to Aisin Seiki Company Limited. Antiskid brake assembly. 3,650,573, 3-21-72, Cl. 303-21.
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- Inagaki, Shotaro: See—
Kuramoto, Yoshio; and Inagaki, Shotaro, 3,664,246.
Kuramoto, Yoshio; and Inagaki, Shotaro, 3,675,558.
- Inagaki, Takashi: See—
Koyama, Mikihiro; and Inagaki, Takashi, 3,705,733.
- Inagaki, Takefumi, to Fujitsu Limited. Method and apparatus for producing holograms utilizing a plurality of short focus convex lenses. 3,692,380, 9-19-72, Cl. 350-3.500.
- Inagaki, Tatsumi: See—
Kodama, Yutaka; Takai, Akira; and Inagaki, Tatsumi, 3,704,335.
- Inagaki, Tohru: See—
Shirakawa, Tadashi; Inagaki, Tohru; Suzuki, Tadao; and Ogawa, Koji, 3,649,205.
- Inagaki, Tokuchi: See—
Aono, Shigeho; Manaka, Nobuzi; Inagaki, Tokuchi; Nakajima, Yasuo; and Etoh, Yukihiro, 3,673,989.
- Inagaki, Tsuguya: See—
Tomiyasu, Hiroshi; Inagaki, Tsuguya; Kajiura, Hiroshi; and Watanabe, Kinnosuke, 3,640,135.
- Inagami, Masaaki: See—
Komuro, Keiji; Inagami, Masaaki; and Saito, Yoshiomi, 3,639,651.
Komuro, Keiji; Inagami, Masaaki; and Fukuda, Hideo, 3,657,393.
- Inamdar, Sayed-Ibrahim S., to Bechtel International Corporation, mesne. Ground fault detection circuit. 3,696,367, 10-3-72, Cl. 340-255.000.
- Inami, Akira; Shida, Sankichi; and Haga, Mikio, to Matsushita Electric Industrial Co., Ltd. Electric contact grease. 3,632,509, 1-4-72, Cl. 252-33.3.
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Tada, Fusao; Inamine, Seici; and Hatanaka, Tsutomu, 3,674,897.
- Inamine, Shigeo: See—
Ueno, Ryuzo; Miyazaki, Tetsuya; and Inamine, Shigeo, 3,692,534.
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Hayashi, Noburo; Katsumi, Mamoru; Ogata, Yuzuru; Arai, Sumio; Kurita, Yoshiaki; and Inamori, Yoshihiro, 3,639,468.
- Inamoto, Toshiharu: See—
Osugi, Kinichiro; Suzuki, Yoshiaki; Mori, Tokio; and Inamoto, Toshiharu, 3,641,561.
- Inamoto, Yoshihiko: See—
Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Tetsuhiro, Kusunose; Isumaki, Tatsuchi; and Ota, Masami, 3,700,662.
- Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Kusunose, Tethiro; Tsumaki, Tatsuchi; and Ota, Masami, 3,705,877.
- Inamura, Seichi; Kondo, Yusuke; Akita, Minoru; and Chikanari, Kenichi, to Toyo Boseki Kabushiki Kaisha. Apparatus for continuous reaction of high viscous materials. 3,640,509, 2-8-72, Cl. 259-104.
- Inaoka, Kazuyoshi: See—
Furusawa, Hisatomo; Inaoka, Kazuyoshi; and Maruyama, Masahiro, 3,652,782.
- Inaoka, Masato: See—
Yamamura, Yuichi; Fujii, Setsuro; Okano, Atsuji; Hirata, Miyoshi; Abiko, Yasushi; Inaoka, Masato; Noroi, Reimei; Iwamoto, Mashiro; Funabashi, Shoichi; and Kaito, Takeo, 3,699,149.
- Inariba, Tokuzo, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Pulse motor assembly. 3,693,034, 9-19-72, Cl. 310-49.000.
- Inbar, Dan: See—
Suhani, Albert; Sabbah, Benjamin; Inbar, Dan; Yarom, Artzi; and Ben-Zeev, Dan, 3,701,901.
- Inca Inks, Inc.: See—
Remer, Robert K., 3,669,720.
- Inca Metal Products Corporation: See—
Denny, Denny A., 3,647,080.
- Incentive Research & Development AB: See—
Bogren, Hugl; Elfstrom, Gosta; and Tengroth, Bjorn, 3,679,901.
Morichetto, Michele, 3,639,761.
Ullberg, Sven Gustav Folke, 3,690,988.
- Incentive Research & Development AB, mesne: See—
Melin, Karl-Axel, 3,646,318.
- Incho, Harry Hobart: See—
Montgomery, Ronald Eugene; and Incho, Harry Hobart, 3,652,741.
- Incoc Corporation: See—
Sercs, Alex, 3,707,265.
- Incollingo, Italo: See—
Caldo, Cornelio; Danielli, Ezio; Incollingo, Italo; and Protospataro, Francesco, 3,669,829.
- Incornac S. A.: See—
Grisard, Jean; and Grisard, Marcel A., 3,685,227.
- Incoterm: See—
Frieband, Neil G.; and Kendrick, Douglas O., 3,639,911.
- Indak Manufacturing Corporation: See—
Black, Charles E., III; and Schaad, William J., 3,686,449.
Raab, Andrew F., 3,668,353.
Schaad, William J., 3,632,916.
Schaad, William J.; and Schmidt, Fred N., 3,665,128.
Schink, William N.; and Krol, Harry J., 3,659,066.
- Indal Canada Limited: See—
Englhardt, Robert Anton, 3,638,759.
- Indev, Inc.: See—
Corneau, George E., 3,641,976.
Walsh, David L., 3,678,894.
- Index-Werke KG: See—
Link, Helmut, 3,690,201.
- Index-Werke KG Hahn & Tessky: See—
Gumhold, Gunther, 3,693,810.
Link, Helmut, 3,654,819.
- Indian Head Inc.: See—
Neth, Richard M.; Rogers, John M.; and Gallagher, James J., 3,672,011.
- Indian Industries, Inc.: See—
Smith, Max D.; and Adkins, Frank M., 3,703,287.
- Indiana University Foundation: See—
Batz, Simon, 3,678,153.
Muhler, Joseph C., 3,666,855.
Muhler, Joseph C., 3,670,076.
Muhler, Joseph C., 3,676,112.
Muhler, Joseph C.; and Stookey, George K., 3,699,979.
- Indjian, Arpe G. Egg laying toy fowl. 3,660,930, 5-9-72, Cl. 46-117.

- Indramat-Gesellschaft fur Industrie-Rationalisierung und Automatisierung G.m.b.H.: See—
Bartholomaeus, Reinert; and Krohn, Holger, 3,665,807.
Leutner, Volkmar, 3,698,846.
- Inductosyn Corporation: See—
Tripp, Robert W., 3,673,395.
- Inductosyn Corporation: See—
Farand, Clair L., 3,673,584.
Foster, Vincent F., 3,668,587.
Foster, Vincent F.; and Schreitz, Robert A., 3,696,667.
Tripp, Robert W.; and Geller, Robert Z., 3,673,585.
Tripp, Robert W., 3,686,487.
- Inductotherm Corporation: See—
Boehm, Paul C.; and Kennedy, Theodore R., 3,657,602.
- Industra Products, Inc.: See—
Geber, Eugene E., 3,678,766.
Geber, Eugene E., 3,685,119.
Hill, Donald Everett; and Walker, Robert G., 3,686,735.
Payne, Stanley D.; Hill, Donald E.; and Walker, Robert G., 3,685,118.
Walker, Robert G., 3,659,329.
Walker, Robert G.; and Hill, Donald E., 3,694,887.
- Industrial Brush Company: See—
Scruggs, Donald E., 3,633,236.
- Industrial de Cascarillas-CISCANA S.A.: See—
Runton, Leslie A., 3,686,384.
Runton, Leslie A., 3,687,877.
- Industrial Distributors (Sales) Limited: See—
Prowse, Derek Henry George; and Prowse, Stephen Derek, 3,661,137.
- Industrial Dyestuff Company: See—
Bloom, Albert, 3,687,663.
- Industrial Electronic Hardware Corporation: See—
Nanninga, Robert N., 3,632,937.
Pittman, Robert B.; and Keere, Walter P. (said Pittman assor. to), 3,639,888.
- Industrial Electronic Rubber Company: See—
Murray, Myles N., 3,680,187.
- Industrial Filter & Pump Mfg. Co.: See—
Schmidt, Henry Jr., 3,695,443.
Schmidt, Henry Jr.; Crain, Richard W.; and Zievers, James F., 3,695,451.
Zievers, James F., 3,648,842.
Zievers, James F.; Riley, Clay W.; and Crain, Richard W., 3,658,470.
Zievers, James F.; and Novotny, Charles J., 3,681,210.
- Industrial Heater Co., Inc.: See—
McGwire, Thomas A.; and Racine, Emilio A., 3,694,628.
- Industrial Heights, Inc.: See—
Alderfer, Sterling W., 3,682,222.
- Industrial Insulations, Inc.: See—
Malone, Joseph G.; and Smith, H. Morton, 3,687,170.
- Industrial Louvers, Inc., mesne: See—
Vandermeij, Robert J., 3,680,469.
- Industrial Micronics Incorporated: See—
Raickle, John A., 3,653,160.
- Industrial Modular Systems Corporation: See—
Lasch, Cecil A., Jr.; Bingham, George H.; and Berz, Gerhard, 3,645,581.
- Industrial Modulator Systems Corporation: See—
Lasch, Cecil A., Jr., 3,631,758.
- Industrial Nucleonics Corporation: See—
Adams, William L., 3,666,621.
Bossen, David A., 3,655,980.
Cornett, Wendell H., Jr., 3,644,826.
Doering, George I., 3,655,976.
Doering, George I., 3,668,398.
Dukes, John R., 3,655,984.
Fleming, John W., Jr.; and McMullen, James Michael, 3,640,162.
Grant, Michael P., 3,684,953.
Grant, Michael P.; and Freeh, Edward J., 3,697,003.
Hart, Dwight L.; Jagers, Henry T.; and Walker, Charles S., 3,648,035.
Jagers, Henry T.; and Theado, Donald R., 3,684,954.
Jernigan, Ernest D., Jr., 3,655,979.
McMullen, James M.; and Berg, Douglas A., 3,662,174.
Norwich, Alan, 3,646,434.
Rice, James S., 3,676,295.
Rice, James S., 3,703,436.
Shah, Franklin Bong-Sec, 3,654,468.
Shah, Franklin Bong-Sec; and Troutman, Paul Henry, 3,668,401.
Stucky, Duane L.; Donaldson, Richard G.; and Alexander, Allen D., 3,668,397.
Troutman, Paul H., 3,636,327.
- Industrial Nucleonics Corporation, mesne: See—
Fleming, John W., Jr.; and McMullen, James Michael, 3,668,922.
Hays, Willard C.; and Smith, James D., 3,691,940.
- Industrial Patent Development Corporation: See—
Fixler, Jon S., 3,643,953.
Fixler, Jon Scott, 3,695,208.
- Industrial Problem Solves, Inc.: See—
Crook, Richard D., 3,673,668.
- Industrial Propane, Inc.: See—
Hallberg, John E., 3,698,365.
- Industrial Research Laboratory, Inc.: See—
Colinet, Rene D.; and Bulmash, William I., 3,686,987.
- Industrial Research Products, Inc.: See—
Burkhard, Mahlon D.; and Peters, Richard W., 3,681,531.
Burkhard, Mahlon D.; and Peters, Richard W., 3,681,756.
Burkhard, Mahlon D.; and Maxwell, Russell J., 3,692,264.
Carlson, Elmer Victor; and Killion, Mead Clifford, 3,701,865.
- Industrial Science & Technology, Agency of: See—
Araki, Michio; Uchida, Hiroshi; and Kotera, Yoshihide, 3,657,351.
Fujii, Kinjiro; Motoe, Akihiro; and Kasugai, Homuru, 3,684,558.
Fukuta, Kenji; and Miura, Yoshihiro, 3,688,487.
Goto, Tataro, 3,658,486.
Kamogawa, Hiroyoshi; and Kato, Masao, 3,652,492.
Kodera, Yoshihide; Kato, Jun; Shimada, Kazuo; Suzuki, Morio; Ohse, Hidetaka; Ohshima, Satoshi; and Kuriki, Yasunori, 3,654,143.
Kuwahara, Ayako, 3,700,058.
Mita, Akio, 3,653,822.
Nagase, Shunji; Baba, Hajime; Kodaira, Kazuo; and Abe, Takashi, 3,650,916.
Nagase, Shunji; Abe, Takashi; Baba, Hajime; and Kodaira, Kazuo, 3,687,825.
Takasaki, Yoshiyuki, 3,689,362.
Takeyama, Hidehiko; Miyasaka, Kaneyoshi; and Miyazawa, Shinichi, 3,660,950.
Tsuda, Minoru, 3,647,470.
Ueda, Terumori; and Imai, Tunemichi, 3,654,785.
- Industrial Science and Technology, Agency of: See—
Suzuki, Hideo; Ozawa, Yoshiko; and Tanabe, Osamu, 3,647,625.
- Industrial Services of America, Inc.: See—
Gagel, Charles T., 3,687,317.
Gagel, Charles T., 3,688,944.
- Industrial Tool Engineering Company: See—
Celovsky, Michael E., 3,660,628.
- Industrial Tools, Inc.: See—
Nielsen, Waldemar R.; and Mathias, Charles D., 3,672,017.
- Industrial Washing Machine Corporation: See—
Sadwith, Howard M., 3,645,791.
Sadwith, Howard M., 3,675,665.
- Industrias Sigma, S.A.: See—
Mejia, Salvador, 3,665,150.
- Industrie A. Zanussi S.p.A.: See—
Mazza, Lamberto, 3,631,644.
Mazza, Lamberto, 3,658,288.
Mazza, Lamberto, 3,664,159.
Mazza, Lamberto, 3,670,226.
Mazza, Lamberto, 3,679,908.
Mazza, Lamberto, 3,683,651.
- Industrie Pirelli S.p.A.: See—
Barassi, Carlo; Lugli, Giuseppe; Mezzanotte, Mario; and Guermandi, Romano, 3,690,364.
Ferrentino, Antonio, 3,695,297.
Koschatzky, Bruno; Angioletti, Attilio E.; and Madonini, Nino, 3,667,203.
Lombardi, Aurelio; Anelli, Pietro; and Bianchi, Gianfranco, 3,686,428.
Maiocchi, Luigi, 3,703,202.
Tangorra, Giorgio; and Di Giovinazzo, Antonio, 3,658,999.
- Industrie Pirelli S.p.A., mesne: See—
Almenti, Giovanni, 3,686,843.
Angioletti, Attilio E.; and Marocco, Sergio G., 3,672,484.
Barassi, Carlo; Lugli, Giuseppe; and Mezzanotte, Mario, 3,656,533.
Caretta, Renato; and Pacciarini, Antonio, 3,674,899.
De Santis, Ermenegildo, 3,654,813.
Ferrentino, Antonio, 3,701,060.
Franco, Pasini, 3,662,092.
Longoni, Sergio; and Portinari, Antonio, 3,643,727.
Magistrini, Carlo; and Maiocchi, Luigi, 3,667,527.
Oriani, Agostino, 3,672,613.
Pacciarini, Antonio; and Pirovano, Dante, 3,694,290.
Pasquale, Donato, 3,657,961.
Tangorra, Giorgio, 3,655,454.
- Industrie S.p.A., mesne: See—
Ciampolini, Valerio, 3,661,014.
- Industrie-Hartverchromung Praezisionsmechanik G.m.b.H.: See—
Wittel, Karl, 3,644,182.
- Industrie-Werke Karlsruhe Aktiengesellschaft: See—
Engler, Otto; and Muller, Meinhard, 3,632,943.
Engler, Otto; Hammer, Theodor; and Muler, Meinhard, 3,684,619.
Madlener, Paul; and Pecksen, Otto, 3,703,867.
- Industrie-Werke Karlsruhe Augsburg Aktiengesellschaft: See—

- Baumann, Karl-Heinz, 3,662,966.
 Industriele Onderneming Wavin N.V.: *See—*
 De Putter, Warner Jan, 3,665,968.
 De Putter, Warner Jan, 3,682,351.
 De Vries, Jan Roelof, 3,688,650.
 Sigmund, Franck, 3,685,546.
 Van Zon, Cornelis, 3,705,779.
 vanZon, Cornelis, 3,652,109.
 Zon, Cornelis Van, 3,692,336.
 Industriewerk Schaeffler OHG: *See—*
 Jacob, Werner, 3,672,737.
 Schaeffler, Georg, 3,639,019.
 Staneff, Stefan, 3,703,074.
 Industronics Controls, Inc.: *See—*
 Wintriss, George Victor, 3,656,139.
 Indy Lighting, Inc.: *See—*
 Miles, Earl F., Jr., 3,660,651.
 Indyk, Edward F. Automatic socket screw wrench. 3,651,720, 3-28-72, Cl. 81-121.
 Infer-O-Therm Corporation: *See—*
 Martin, Charles K., 3,659,583.
 Infodata Systems Incorporated: *See—*
 Bharwani, Bansi U.; and Kaplowitz, Harry, 3,670,310.
 Inforex, Inc.: *See—*
 Horgan, Thomas B.; Heineck, Arthur W.; and Newcomb, Charles E., 3,657,706.
 Steranko, James J., 3,673,681.
 Information Control Systems, Inc.: *See—*
 Wisner, Daniel A., 3,652,805.
 Information International, Inc.: *See—*
 Fredkin, Edward; and Renold, Walter, 3,693,042.
 Gray, Stephen B., 3,706,071.
 Kurek, Nicholas B.; Gruder, James F.; and Cameron, Dan, Jr., 3,651,517.
 Waller, Robert W., 3,649,819.
 Information Magnetics Corporation: *See—*
 Gillum, Daniel L.; and Gillum, Donald E., 3,665,433.
 Gillum, Donald E., 3,656,015.
 Sutton, David A., 3,681,630.
 Information Printing Systems Corporation: *See—*
 Albo, Ronald T.; and Pastrone, John, 3,656,425.
 Information Storage Systems, Inc.: *See—*
 Halfhill, Martin O.; and Sordello, Frank J., 3,646,420.
 Matthews, Richard D.; Halfhill, Martin O.; Sordello, Frank J.; and Yang, Harold S., 3,670,316.
 Sordello, Frank J., 3,659,175.
 Sordello, Frank J., 3,694,772.
 Information Transfer Corporation: *See—*
 Sims, John C., Jr.; and Brace, Lloyd D., Jr., 3,704,337.
 Information Utilization Corporation: *See—*
 Caiola, Leonard, 3,678,148.
 Infotec, Inc.: *See—*
 Baur, Kenneth R.; and Mehofer, Robert W., 3,637,161.
 Infrared Industries, Inc.: *See—*
 Rupert, Robert E.; and Anderson, Norman C., 3,645,783.
 Infrarodtechnik AB: *See—*
 Elser, Nils Ake; and Nilson, Hans Erik, 3,674,513.
 Ingalls, Arthur L.: *See—*
 Cochran, Gary D.; Cutrona, Louis J.; and Ingalls, Arthur L., 3,687,543.
 Ingalls, Daniel H. H., Jr., to United Data Services. Execution time analyzer. 3,702,005, 10-31-72, Cl. 444-1,000.
 Ingalls, James E. Method of and apparatus for applying labels to articles or packages. 3,676,257, 7-11-72, Cl. 156-351,000.
 Ingalls, Jeffrey D.: *See—*
 Ryan, John T.; and Ingalls, Jeffrey D., 3,671,809.
 Ingalls, John E.; and Yaker, Charles, to Howmet Corporation. Shell manufacturing method for precision casting. 3,669,177, 6-13-72, Cl. 164-26,000.
 Ingalls, Robert A., to Simmonds Precision Products, Inc. Variable speed transmission. 3,662,613, 5-16-72, Cl. 74-371,000.
 Ingherman, Arthur K.: *See—*
 Keogh, Michael J.; and Ingherman, Arthur K., 3,701,806.
 Ingeborg Niess Elektromedizinische Apparate: *See—*
 Hoffmann, Heiner, 3,640,270.
 Ingellis, Joseph Frank. Adjustable furniture. 3,695,702, 10-3-72, Cl. 297-440,000.
 Ingelman, Bjorn G.; and Ceska, Miroslav, to Pharmacia AB. Method for determining endohydrolases capable of breaking down polysaccharides and reagents for carrying out the method. 3,676,303, 7-11-72, Cl. 195-103,500.
 Ingelman, Bjorn G. A.: *See—*
 Bjork, Lars; Erikson, Uno E.; and Ingelman, Bjorn G. A., 3,692,824.
 Ingelman, Bjorn G. A., to Pharmacia AB. Method for the X-ray visualization of body cavities and a preparation for carrying out the method. 3,632,736, 1-4-72, Cl. 424-5.
 Ingelman, Bjorn G. A., to Pharmacia AB. Method for the X-ray visualization of body cavities and a preparation for carrying out the method. 3,632,737, 1-4-72, Cl. 424-5.
 Ingelman, Bjorn G. A., to Pharmacia AB. Method for the X-ray visualization of body cavities and a preparation for carrying out the method. 3,632,738, 1-4-72, Cl. 424-5.
 Ingelman, Bjorn Gustav-Adolf: *See—*
 Bjork, Lars; Erikson, Uno Eugen; and Ingelman, Bjorn Gustav-Adolf, 3,678,152.
 Ingels, Glenn R. Saturated fluid mixtures generator. 3,655,172, 4-11-72, Cl. 261-130.
 Ingenieur Bureau de Ridder N.V.: *See—*
 de Ridder, Gerardus Johannes, 3,671,034.
 Ingenieur Bureau Dr. Brehm AG: *See—*
 Beck, Erich, 3,659,748.
 Beck, Erich, 3,693,791.
 Ingenieurburo fur Rationalisierung der Suss- und Dauerbackwarenindustrie: *See—*
 Gottweis, Gert; Herrlich, Michael; Klas, Gunther; Schober, Joachim; Thiede, Peter; and Zachaus, Eberhard, 3,676,978.
 Ingenieur Bureau de Ridder N.V.: *See—*
 de Ridder, Gerardus Johannes, 3,692,304.
 Ingeniorsfirman Nilcon Aktiebolag: *See—*
 Jonell, Per Olof; and Nilsson, Sven Melker, 3,631,643.
 Ingeniorsfirman Nils Weibull AB: *See—*
 Andersson, Sven A., 3,672,518.
 Ingenious Devices Limited: *See—*
 Parry, John, 3,700,343.
 Ingenito, Michael Joseph, to General Time Corporation. Electromechanical oscillator for controlling a timing motor. 3,634,743, 1-11-72, Cl. 318-138.
 Ingenjors C.G. Hansson AB: *See—*
 Nill, Jan Erik, 3,688,588.
 Ingenjorsfirma Hebe AB: *See—*
 Bergling, Charles; and Birger, Gunnar, 3,685,634.
 Ingeniue, Inc.: *See—*
 Craig, Dwin R., 3,655,274.
 Graig, Dwin R., 3,685,912.
 Ingersoll, Albert A.: *See—*
 Black, Daniel A.; Ingersoll, Albert A.; York, Ira Bill Lee; and Jones, David O., 3,667,340.
 Ingersoll, Clyde E.; and Williams, Reginald V., Sr.; deceased (by Williams, John A.; and Williams, Elizabeth P.; executors), said Ingersoll assor. to Williams Gold Refining Co., Inc. Dental filling. 3,667,937, 6-6-72, Cl. 75-165,000.
 Ingersoll, Henry Gilbert, to Du Pont de Nemours, E. I., and Company. Magnetic recording elements containing stabilized chromium dioxide, a polyurethane binder, and an isocyanate hardening agent. 3,649,541, 3-14-72, Cl. 252-62,54.
 Ingersoll Locks Limited: *See—*
 Berry, Daniel Victor; and Knott, Stanley Gerald Thomas, 3,638,460.
 Ingersoll Milling Company, The: *See—*
 Erkfriz, Donald S., 3,694,876.
 Ingersoll Milling Machine Company, The: *See—*
 Baechle, Hans J.; and Holtey, James O., 3,662,631.
 Clark, Stephen C., Jr., 3,653,161.
 Clark, Stephen C., Jr., 3,653,162.
 Clark, Stephen C., Jr., 3,660,947.
 Clark, Stephen C., Jr., 3,660,948.
 Clark, Stephen C., Jr., 3,664,066.
 Erkfriz, Donald S., 3,660,879.
 Erkfriz, Donald S., 3,662,444.
 Erkfriz, Donald S., 3,701,187.
 Klipping, James L., 3,663,027.
 Ingersoll, Philip: *See—*
 Furlani, John J.; Davis, Harry J.; and Ingersoll, Philip, 3,653,324.
 Ingersoll-Rand Company: *See—*
 Allen, Edward L., 3,643,750.
 Bangert, Kenneth R., 3,648,744.
 Buse, Frederic W., 3,680,976.
 Catterfeld, Robert J.; and Tibbott, David W., 3,656,560.
 Coyne, Francis P., 3,684,039.
 Coyne, Francis P., 3,687,226.
 Davis, Raymond C., 3,644,055.
 Dussourd, Jules L.; and Haugen, Ronald L., 3,696,588.
 Gyongyosi, Laszlo, 3,659,655.
 Gyongyosi, Laszlo, 3,692,123.
 Holdsworth, John E.; and Weir, Dallas M., Jr., 3,698,838.
 Hornschuch, Hanns; and Alderson, William T., 3,640,646.
 Hornschuch, Hanns, 3,649,208.
 Howe, Frank D., 3,656,502.
 Howe, Frank D., 3,656,544.
 Howe, Frank D., 3,667,541.
 Hughes, Robert W., 3,650,576.
 Hughes, Robert W., 3,683,466.
 Leven, Samuel; and Moffitt, Kenneth S., 3,656,561.
 Pauley, Reginald W., 3,643,501.
 Pauley, Reginald W., 3,643,749.
 Tibbott, David W., 3,697,189.
 Treible, Edwin S., Jr., 3,664,183.
 Ulbing, Otmur M., 3,635,442.

- Ingersoll-Rand Research Inc.: *See—*
 Schonewald, Roger L.; and Kevorkian, Victor, 3,648,436.
 Ingerson, Paul G.; and Mayes, Paul E., to University of Illinois Foundation. Modulated impedance feeding system for log-periodic antennas. 3,633,207, 1-4-72, Cl. 343-770.
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 Bokvist, Kjell; and Ingestrom, Curt Holger, 3,673,750.
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 Burrows, Harold George; and Ingham, Philip Brierley, 3,665,054.
 Ingham, Ray E.: *See—*
 Martenson, Earl D.; and Ingham, Ray E., 3,691,916.
 Ingham, Robert M., Jr., to Deering Milliken Research Corporation. Roving stop. 3,636,695, 1-25-72, Cl. 57-84.
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 Ingmarsson, Bjorn Rafnar. Screwdriver with non-slip bit coating means. 3,656,522, 4-18-72, Cl. 145-50.
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 Inglis, George M.: *See—*
 Harvey, Donald M.; and Inglis, George M., 3,636,840.
 Inglis, George M., to Eastman Kodak Company. Lap dissolve slide projector with single shiftable slide tray. 3,677,631, 7-18-72, Cl. 353-83,000.
 Inglis, Hugh Stewart, to Imperial Chemical Industries Limited. Prins-type reactions. 3,644,428, 2-22-72, Cl. 260-345,1.
 Inglis, John, Frozen Foods Company: *See—*
 Cox, James P., 3,669,164.
 Cox, James P., 3,677,315.
 Inglis, Leslie R.: *See—*
 Bollinger, Howard N.; and Inglis, Leslie R., 3,636,586.
 Inglis, Leslie R.; and Peter, Joseph E., to Vortec Corporation. Vortex tube cooling system. 3,654,768, 4-11-72, Cl. 62-5.
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 Ingold, Werner, to Proton AG. Measuring instrument equipped with removable measured value transmitter probe. 3,691,846, 9-19-72, Cl. 73-432,00r.
 Ingram, Brian, to Girling Limited. Two pedal hydraulic braking system. 3,640,067, 2-8-72, Cl. 60-54,6.
 Ingram, Brian, to Girling Limited. Hydraulic braking systems for vehicles. 3,678,688, 7-25-72, Cl. 60-54,60r.
 Ingram, Brian; Spence, Douglas Roy; and Cochrane, Robin Adam, to Girling Limited. Hydraulic systems for vehicles. 3,690,738, 9-12-72, Cl. 303-21,00f.
 Ingram, Brian; Harries, David Anthony; and Phoenix, Lancelot, to Girling Limited. Actuator assemblies for hydraulic braking systems. 3,694,038, 9-26-72, Cl. 303-21,00f.
 Ingram, Brian; and Harries, David Anthony, to Girling Limited. Hydraulic actuating systems. 3,703,079, 11-21-72, Cl. 60-54,50e.
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 Ingram, Carey. Automatic free-fall oceanographic temperature probe. 3,656,345, 4-18-72, Cl. 73-170,00r.
 Ingram, Clarence E.; and Warriner, Louis T. Alarm device utilizing fishing reel ratchet mechanism. 3,686,852, 8-29-72, Cl. 58-21,150.
 Ingram, Clifford G.: *See—*
 Conley, William J., Jr.; and Ingram, Clifford G., 3,684,960.
 Ingram, David John; and Maillardet, Frederick James, to General Electric and English Electric Companies, Limited, The. Winch arrangements. 3,675,794, 7-11-72, Cl. 214-13,000.
 Ingram, Gordon B., to Adair, Michael H. and Reeves, Rosser S., II; in care of Tidderock Corporation, mesne. Bolt handle and pistol grip magazine for an automatic firearm. 3,651,736, 3-28-72, Cl. 89-132.
 Ingram, John Anthony, to National Research Development Corporation. Carrier devices for shoulder-strap support on the back. 3,679,108, 7-25-72, Cl. 224-8,00r.
 Ingram, John D., to Schlumberger Technology Corporation. Acoustic reflection coefficient logging. 3,697,937, 10-10-72, Cl. 340-15,50a.
 Ingram, Maurice S. Lathe tool holder. 3,691,883, 9-19-72, Cl. 82-34,00r.
 Ingram, Roland D.: *See—*
 Morpheu, James R.; Ingram, Roland D.; and Stokes, John R., 3,643,217.
 Ingram, Woodrow Hayes, II, to Monsanto Company. Emulsifiable phenolic resin comprising a resole and a soluble protein. 3,666,694, 5-30-72, Cl. 260-7.
 Ingress Manufacturing Corporation: *See—*
 Harbison, Richard L., 3,634,894.
 Ingress-Plastene, Inc.: *See—*
 van Riper, Richard W., Jr., 3,646,622.
 Ingrey, Sidney Ivor Joseph, to Northern Electric Company Limited. Information on a layer of orthoferrite with an electron beam. 3,701,115, 10-24-72, Cl. 340-173,0cr.
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 Ingvarisen, Arne. Releasable corner joint arrangement for stacking frames for loading pallets. 3,643,988, 2-22-72, Cl. 287-53,5.
 Ingvorsen, Helmut. Substrate-containing test container for the cultivation and inspection of micro organisms. 3,701,717, 10-31-72, Cl. 195-139,000.
 Inhelder, Allen E., to Cross, J. W., Co. Cabinet construction. 3,694,047, 9-26-72, Cl. 312-234,000.
 Injection Plastic Co., Inc., The: *See—*
 Strang, Robert E., 3,645,573.
 Inka, Egons, to Crane Packing Company. Automatic feeder and tape wrapper. 3,648,890, 3-14-72, Cl. 221-236.
 Inklaar, Petrus Adam, to Vasco Industries Corporation. Method of preserving dehydrated raw animal meat. 3,681,095, 8-1-72, Cl. 99-208,000.
 Inks, Clyde G.: *See—*
 Johnson, Alvin C.; and Inks, Clyde G., 3,634,305.
 Inks, Clyde G. Novel carbamate insecticidal compositions. 3,658,959, 4-25-72, Cl. 424-300.
 Inland Container Corporation: *See—*
 Ellison, Lloyd W., 3,635,422.
 Wood, Robert N., 3,653,578.
 Inland Steel Company: *See—*
 Bozeman, Wright D.; and Blackwell, Clifford D., 3,667,425.
 Coppens, Mattheus Johannes Martinus; and Mannaerts, Ivinus Eduardus Maria Josephus, 3,684,132.
 Froman, Griff W., 3,650,910.
 Halley, James W.; Grimes, Donald E.; Mills, Norman T.; and Yalamanchili, Krishna Rao, 3,649,249.
 Halley, James W.; Grimes, Donald E.; Mills, Norman T.; and Yalamanchili, Krishna Rao, 3,704,744.
 Heitmann, William E.; and Garofalo, Frank, 3,704,180.
 Levy, Bernard S., 3,673,009.
 Novak, John P., 3,668,022.
 Schrader, Carlton F.; Taylor, Harold L.; and Heitmann, William E., 3,687,145.
 Valonis, Edmund J., 3,690,134.
 Van Leer, Oscar J., 3,660,188.
 Inland Systems, Inc.: *See—*
 Pierce, Edwin A.; Knob, Richard W.; Roth, Samuel O.; and McKinney, Emery L., 3,643,393.
 Pierce, Edwin A.; Knob, Richard W.; Roth, Samuel O.; and McKinney, Emery L., 3,671,362.
 Inman, Clarence D. Floating marine marker. 3,660,855, 5-9-72, Cl. 9-8.
 Inman, Eric Richard: *See—*
 MacPherson, Ian Alexander; Inman, Eric Richard; Stirling, John Andrew; and Irvine, Alexander McHugh, 3,677,782.
 Inman, Eric Richard; Macpherson, Ian Alexander; and Stirling, John Andrew, to Ciba-Geigy AG. Azomethine pigments. 3,700,709, 10-24-72, Cl. 260-438,100.
 Inman, Gene E.: *See—*
 Andrews, John W.; Schmiel, William J.; Inman, Gene E.; and Jones, James Phillip, 3,643,416.
 Inman, Richard B. Method of making a package. 3,660,960, 5-9-72, Cl. 53-14.
 Inman, Richard B. Carrier and foldable blank for making same. 3,661,417, 5-9-72, Cl. 294-87,2.
 Inmon, Aubrey W.; and Sanderford, Moses Vincent, to U.S. Plywood-Champion Papers Inc. Structural joint. 3,688,458, 9-5-72, Cl. 52-280,000.
 Inmont Corporation: *See—*
 Civardi, Frank Peter, 3,637,415.
 De Graff, John E.; Antoniou, Theodore; and Baganakis, Peter, 3,650,664.
 Kao, Henry C., 3,634,347.
 Keaveney, William P.; and Pappas, James J., 3,637,860.

- McCreary, Mabry L., 3,637,111.
Pappas, James J.; and Keaveney, William P., 3,637,721.
Inmot Corporation: *See—*
Ackerman, Joseph Francis; Weisfeld, Joseph; Savageau, Robert George; and Beerli, George, 3,673,140.
Innerfield, Irving. Stabilized enzymic compositions containing protease and alpha amylase of bacterial origin and method of stabilizing such compositions. 3,682,842, 8-8-72, Cl. 252-539.000.
Inneman, Sven Eric: *See—*
Edstrom, John Olof; Inneman, Sven Eric; Berg, Bengt Henrik; and Mills, Brian Edward, 3,690,850.
Innerspace Corporation: *See—*
Gongwer, Calvin A., 3,653,086.
Innes, John Edwin, to American Cyanamid Company. Aryl- and aryl-aminobenzophenones. 3,639,481, 2-1-72, Cl. 260-570.
Innes, Robert A.; and Rennard, Raymond J., Jr., to Gulf Research & Development Company. Dehydrogenation of ethylbenzene to styrene using SO₂ and ferrite catalysts in the form of spinels or perovskites. 3,644,549, 2-22-72, Cl. 260-669.
Innes, William P.: *See—*
Mersereau, Mark; Rohdenizer, Harold L.; Grunwald, John J.; and Innes, William P., 3,698,940.
Rhodenizer, Harold L.; Grunwald, John J.; and Innes, William P., 3,666,549.
Innis, Robert T.; Berg, Alan J.; and Santilli, James N., to Westinghouse Electric Corporation. Protective system for series capacitors. 3,707,650, 12-26-72, Cl. 317-12.00a.
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Galbarini, Maso; and Cotta Ramusino, Francesco, 3,651,706.
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Galbarini, Maso; and Ramusino, Francesco Cotta, 3,671,133.
Innotech Corporation: *See—*
Merrin, Seymour, 3,676,756.
Innova Corporation, mesne: *See—*
Orth, Richard D.; Surendranath, Jack G.; and Chakravarti, Dip-timan, 3,682,790.
Inoi, Takeshi; Sueyoshi, Koji; Fujii, Masahiro; Shoji, Kenjiro; Shudo, Akio; Yoshizaki, Takayoshi; and Yutaka, Matsuo, to Chisso Corporation. Method for producing β -amino-crotonamide. 3,703,518, 11-21-72, Cl. 260-561.00n.
Inoki, Kazuyoshi; and Nakayama, Yasuaki, to Citizen Watch Co., Ltd. Coil carrier means in an electronic timepiece movement. 3,653,199, 4-4-72, Cl. 58-23.
Inokuchi, Seizi: *See—*
Kubota, Tadao; Matsuzaka, Takashi; and Inokuchi, Seizi, 3,645,358.
Inokuchi, Takahiro: *See—*
Gocho, Yukisato; and Inokuchi, Takahiro, 3,701,030.
Inomata, Hiroshi: *See—*
Koori, Shigeyoshi; Inomata, Hiroshi; and Imai, Kiyoshi, 3,686,731.
Uchino, Koichi; and Inomata, Hiroshi, 3,680,960.
Wada, Tadashi; Itoh, Kunio; Imai, Kiyoshi; and Inomata, Hiroshi, 3,699,073.
Inomata, Isao: *See—*
Ueda, Isao; Kageyama, Takao; and Inomata, Isao, 3,675,165.
Inomata, Suekichi: *See—*
Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.
Inorganic & Metal Treating Chemicals Division: *See—*
Beach, Sidney C.; and Martin, Bernard P., 3,699,016.
Inose, Hideo, to Aisin Seiki Kabushiki Kaisha. Power steering mechanism. 3,706,262, 12-19-72, Cl. 91-378.000.
Inose, Hiroshi; and Saito, Tadao, to Bell Telephone Laboratories, Incorporated. Time division communication system. 3,632,884, 1-4-72, Cl. 179-15.
Inose, Hiroshi; Fujisaki, Hiroya; and Hamada, Takashi, to Sumitomo Electric Industries, Ltd. Road traffic control system. 3,660,812, 5-2-72, Cl. 340-35.
Inose, Hiroshi; Saito, Tadao; Tokunaga, Takehisa; and Tomizawa, Kenji, to Bell Telephone Laboratories, Incorporated. Multiplexed information transmission system. 3,692,942, 9-19-72, Cl. 179-15.0bv.
Inose, Hiroshi; and Saito, Tadao, to Bell Telephone Laboratories, Incorporated. Time division switching system. 3,694,580, 9-26-72, Cl. 179-15.0aq.
Inoue, Atsushi, to Nissan Diesel Motor Co., Ltd. Guide device for multivalve-actuating bridge for an internal combustion engine. 3,633,556, 1-11-72, Cl. 123-90.22.
Inoue, Eiichi; Yamaji, Keizo; Tanaka, Hiroshi; and Saito, Takashi, to Canon Kabushiki Kaisha. Electrostatic image-forming apparatus and process. 3,653,064, 3-28-72, Cl. 346-74.
Inoue, Eiichi; Shimizu, Isamu; and Kobayashi, Hajime, to Canon Camera Kabushiki Kaisha. Imageview photochromic process utilizing spiropyran compounds and halogenated hydrocarbon photoactivators. 3,667,949, 6-6-72, Cl. 96-48.000.
Inoue, Eiichi; Yamaji, Keizo; Tanaka, Hiroshi; and Saito, Takashi, to Canon Camera Kabushiki Kaisha. Apparatus for electrostatic image-forming and processes for use therewith. 3,673,595, 6-27-72, Cl. 346-74.
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Inoue, Hidemu: *See—*
Ito, Hiroo; Nakamura, Seiichi; and Inoue, Hidemu, 3,640,902.
Inoue, Hiraku: *See—*
Iwaoka, Mutsuo; Takegawa, Akio; Inoue, Hiraku; Egami, Katsusuke; Nishikura, Kouiti; Yamashita, Shigeji; and Nagayasu, Tadahi, 3,698,178.
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Inoue, Hiroshi: *See—*
Komeya, Katsutoshi; and Inoue, Hiroshi, 3,653,830.
Inoue, Ichizo: *See—*
Okumura, Kentaro; Inoue, Ichizo; and Kondo, Kazuhiko, 3,632,806.
Okumura, Kentaro; Inoue, Ichizo; Oda, Tatsuo; and Kondo, Kazuhiko, 3,644,349.
Inoue, Isaburo: *See—*
Iwama, Masabuni; Inoue, Isaburo; Takei, Yutaka; and Endo, Takaya, 3,664,841.
Iwama, Masakuni; Inoue, Isaburo; Hanzawa, Teruo; Sakamoto, Kenro; and Endo, Takaya, 3,658,544.
Iwama, Masakuni; Inoue, Isaburo; Hanzawa, Teruo; Sakamoto, Kenro; and Endo, Takaya, 3,669,671.
Iwama, Masakuni; Inoue, Isaburo; Fujiwara, Mitsuo; Hanzawa, Teruo; Kojima, Tamotsu; Yamamoto, Toshihiko; and Endo, Takaya, 3,684,514.
Iwama, Masakuni; Inoue, Isaburo; Hanzawa, Teruo; Sakamoto, Kenro; and Endo, Takaya, 3,694,214.
Inoue, Katsunori: *See—*
Arata, Yoshiaki; and Inoue, Katsunori, 3,650,847.
Arata, Yoshiaki; and Inoue, Katsunori, 3,668,018.
Inoue, Katsuyuki: *See—*
Ishida, Moriyo; Hori, Terutsugu; Otsuka, Yuzuru; Sato, Kunimitsu; Inoue, Katsuyuki; and Ogata, Yoshio, 3,702,341.
Inoue, Kazumasa: *See—*
Nakagawa, Akira; and Inoue, Kazumasa, 3,666,572.
Inoue, Keiji: *See—*
Sakurai, Yasunobu; Sato, Hideo; Shimizu, Masao; and Inoue, Keiji, 3,660,699.
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Inoue, Keitaro: *See—*
Hiraga, Hisao; Ito, Syunichi; Inoue, Keitaro; and Hosoya, Hidenharu, 3,632,366.
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Kimura, Hiroshi; Nambu, Takeshi; Inoue, Kiyoshi; Imahori, Yoshiyuki; Yamaguchi, Kenryo; and Umeno, Kyoza, 3,692,384.
Inoue, Kiyoshi. Shock forming. 3,640,110, 2-8-72, Cl. 72-56.
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Inoue, Masaharu: *See—*
Washio, Shigeaki; and Inoue, Masaharu, 3,658,563.
Inoue, Masahiko; and Tojo, Ken, to Toyota Jidosha Kogyo Kabushiki Kaisha and Kabushiki Kaisha Tokai Rika Denki Seisakusho. Safety belt buckle. 3,639,951, 2-8-72, Cl. 24-230.
Inoue, Masakazu: *See—*
Okamoto, Takehiko; Inoue, Masakazu; Kishimoto, Akihiko; and Sueyoshi, Tadahi, 3,707,585.
Inoue, Masao; and Tamura, Zenzo, to Tokyo Shibaura Electric Co., Ltd. Thin layer chromatographic analysis utilizing mixtures of fluorescent substances and ultraviolet radiation. 3,644,734, 2-22-72, Cl. 250-71.
Inoue, Masatoshi: *See—*
Sagawa, Seiji; Kunihiro, Haruo; Kimura, Osamu; and Inoue, Masatoshi, 3,681,371.
Sagawa, Seiji; Kunihiro, Haruo; Kimura, Osamu; Numata, Kenichiro; and Inoue, Masatoshi, 3,686,132.
Inoue, Michiro; Ishikawa, Hisako; Shimamoto, Takio; and Ishikawa, Masayuki, to Zaidan Hojin Dohmyakukohka Kenkyu Shoreikai. Certain carbamate derivatives of 5-sulfon amido-2-pyridine methanols. 3,635,992, 1-18-72, Cl. 260-294.8.
Inoue, Mitsuhiro: *See—*
Kai, Tsunetoshi; and Inoue, Mitsuhiro, 3,644,120.
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Inoue, Naohiko: *See—*
Uchiyama, Hiromichi; and Inoue, Naohiko, 3,690,400.
Inoue, Noboru: *See—*
Kurokawa, Takaaki; Inoue, Noboru; and Fukuda, Mitsugu, 3,689,244.
Inoue, Noboru; and Wada, Makoto, to Tokyo Shibaura Denki Kabushiki Kaisha. Glass bulb blowing machine. 3,649,238, 3-14-72, Cl. 65-172.
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Inoue, Shigeru: *See—*
Fujii, Kenzo; Kanai, Kazumichi; Inoue, Shigeru; Matsuo, Kiyoshi; and Asakura, Masami, 3,683,057.
Otsuka, Eiji; Kanai, Kazumichi; and Inoue, Shigeru, 3,686,305.
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Inoue, Tadahiko: *See—*
Nishimura, Tatsumi; Inoue, Tadahiko; Tsuboi, Takeo; and Kado, Masaru, 3,671,640.
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Inoue, Takeo: *See—*
Kumura, Teruhiko; Imataki, Norio; Hasui, Katuyuki; Inoue, Takeo; and Yasutomi, Kimiaki, 3,650,704.
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Inoue, Tomiyoshi: *See—*
Hori, Shin; Inoue, Tomiyoshi; Yamamoto, Shozo; Tataru, Kazuo; Kitagawa, Mashi; Watanabe, Masaru; Okada, Yukihiko; and Negishi, Naoki, 3,686,832.
Inoue, Toshitsugu: *See—*
Takano, Hirotsugu; and Inoue, Toshitsugu, 3,680,415.
Inoue, Touru; Yamada, Tetsuya; and Noguchi, Seizo, to Nippon Sheet Glass Co., Ltd. Method for production of fused energy-conducting structure. 3,669,639, 6-13-72, Cl. 65-4.000.
Inoue, Wahei, to Kabushiki Kaisha Maekawa Seisakusho. Automatic control device. 3,633,006, 1-4-72, Cl. 235-151.
Inoue, Yashuhiko: *See—*
Ichiki, Eiichi; Iida, Kazuo; Inoue, Yashuhiko; and Uyeo, Keizo, 3,691,108.
Inoue, Yasuhiko: *See—*
Ichiki, Eiichi; Inoue, Yasuhiko; Kondo, Yoshihiro; and Yako, Tadaaki, 3,657,299.
Ichiki, Eiichi; Iida, Kazuo; Inoue, Yasuhiko; and Kondo, Yoshihiro, 3,674,541.
Inoue, Yutaka; Hotta, Tadao; and Ito, Toshihiko, to Aichi Clock and Electric Implement Mfg. Co., Ltd. Constant speed drive units for driving devices. 3,699,415, 10-17-72, Cl. 318-128.000.
Inouye George T., to TRW Inc. Fluxgate magnetometer drive circuit including a sensor demagnetizer. 3,638,074, 1-25-72, Cl. 317-148.5.
Inouye, Kazuo: *See—*
Taki, Hiroyuki; Inouye, Kazuo; Sakaki, Naruhiko; and Futamata, Masayuki, 3,633,461.
Inouye Kinzoku Kogyo Kabushiki Kaisha: *See—*
Mori, Takao, 3,695,440.
Inouye, Masaru: *See—*
Arai, Sumio; Inouye, Masaru; Ogata, Yuzuru; Niimi, Yukihisa; and Nishimoto, Utiro, 3,666,661.
Inouye, Ryuichiro; Nishikawa, Manaka; and Akano, Akimi, to Mitsui Fluorochemicals Company. Process for stabilization of composition comprising chlorofluoroalkane and aqueous solution of lower alcohol. 3,650,981, 3-21-72, Cl. 252-389.
Inouye, Shingo; and Saul, George, to United States of America, Air Force. Stabilized copper electrode for vacuum arc furnace. 3,634,590, 1-11-72, Cl. 13-31.
Inpat Establishment: *See—*
Marchiello, Giovanni, 3,673,736.
Insect-I-Var Corporation: *See—*
Smith, Charles N., 3,685,198.
Inshaw, John Leslie: *See—*
Barnett, Gerald Wilton; and Inshaw, John Leslie, 3,666,501.
Insinooritoimisto Alpo Makinen & Co.: *See—*
Makinen, Alpo Eino, 3,686,383.
Inskip, Harold Kirkwood; and Adelman, Robert Leonard, to Du Pont de Nemours, E. I., and Company. Copolymers of vinyl alcohol and methyl methacrylate and uses therefor. 3,689,469, 9-5-72, Cl. 260-86.100.
Insolio, Thomas A.; Guzowski, Richard M.; and Steinkamp, Robert A., to Fletcher-Terry Company, The. Glass cutter. 3,682,027, 8-8-72, Cl. 83-12.000.
Inspection Engineering and Equipment, Inc.: *See—*
Kiewicz, Frank M.; and Zink, Paul R., 3,670,420.
Kiewicz, Frank M.; and Zink, Paul R., 3,670,421.
Inspiration Consolidated Copper Company: *See—*
Foard, William H., 3,634,068.
Insta-Foam Products, Inc.: *See—*
Brooks, William R., 3,633,795.
Insta-Snap, Inc.: *See—*
Myers, Herman A., 3,636,800.
Myers, Herman A., 3,657,947.
Myers, Herman A., 3,657,948.
Myers, Herman A., 3,666,260.
Instant Brick Enterprises, Inc.: *See—*
Kirsch, Albert, 3,692,458.
Instapak Corporation: *See—*
Sperry, Charles R., 3,687,370.
Institut de Recherche de l'Hydro Quebec Varennes: *See—*
Zajic, Vladislav, 3,665,249.
Institut de Recherche et de Diffusion Industrielle P.G.E Woog: *See—*
Moret, Michel A., 3,635,593.
Moret, Michel A., 3,696,809.
Institut de Recherches Chimiques et Biologiques Appliquees, I.R.C.E.B.A., mesne: *See—*
Debat, Jacques, 3,659,011.
Institut de Recherches de la Siderurgie Francaise: *See—*
Bojic, Milan, 3,659,944.
Bojic, Milan; and Jorre, Daniel, 3,672,774.
Dumont-Fillon, Jacques; and Roederer, Charles, 3,665,085.
Rouanet, Jean, 3,702,695.
Vayssiere, Pierre; and Gomez-de-Bonilla, Juan Kindelan Y., 3,701,519.
Institut Dr. Ing Reinhard Straumann A.G.: *See—*
Steinmann, Samuel; and Levenberger, Lucien, 3,683,616.
Institut Elektrodinamiki Akademii Nauk: *See—*
Zelensky, Vladimir Alexandrovich, 3,681,768.
Institut Elektrodinamiki Akademii Nauk Ukrainskoi SSR: *See—*
Antonenko, Anatoly Ivanovich, 3,678,312.
Institut Elektrovarki Imeni E. O. Patona: *See—*
Esiban, Eduard Migrantovich; and Danchenko, Mikhail Evgenievich, 3,676,639.
Maximovich, Boleslav Ivanovich; Dudko, Daniil Andreevich; Agafonov, Nikolai Georgievich; Maximov, Igor Petrovich; Andreev, Vadim Grigorievich; Lepilov, Nikolai Yakovlevich; Svinov, Alexei Kapitonovich; Slonimsky, Alexandr Borisovich; Volk, Boris Zakharovich; Gubin, Alexandr Ivanovich; and Katsman, Berta Osipovna, 3,677,330.
Institut Elektrovarki Imeni E.O. Patona: *See—*

- Khrenov, Konstantin Konstantinovich; and Chudakov, Vyacheslav Andreevich, 3,697,914.
 Paton, Boris Evgenievich; Latash, Jury Vadimovich; Medovar, Boris Izrailevich; Emelianenko, July Georgievich; and Kljuev, Mikhail Markovich, 3,670,089.
 Institut Elektrovarkii Imeni E.O. Patona Akademii Nauk Ukrainskoi SSR: *See—*
 Pokhodnya, Igor Konstantinovich; Alter, Vladimir Fedorovich; Kaplenko, Igor Prokofievich; Suprun, Sergei Alexandrovich; Suptel, Alexandr Mikhailovich; Shlepakov, Mikhailovich; and Shlepakov, Valery Nikolaevich, 3,688,376.
 Institut Elementoorganicheskikh Soedineniy Akademii SSSR: *See—*
 Knunians, Ivan Ljudvigovich; German, Lev Solomonovich; and Kazmina, Natalia Borisovna, 3,682,917.
 Institut Francais du Petrole: *See—*
 Rabilloud, Guy; Sillion, Bernard; and de Gaudemaris, Gabriel, 3,642,696.
 Institut Francais du Petrole des Carburants et Lubrifiants: *See—*
 Bonavent, Gerard; Huvay, Michel; and Peinado, Marcel, 3,680,729.
 Delignieres, Robert; and Therond, Jean-Francois, 3,671,723.
 Harbonn, Jacques; and Aubert, Jean-Pierre, 3,680,311.
 Rabilloud, Guy; Sillion, Bernard; and de Gaudemaris, Gabriel, 3,678,005.
 Institut Francais du Petrole des Carburants et Lubrifiants: *See—*
 Alagy, Jacob; Bigache, Francois; and Cha, Bernard, 3,683,035.
 Avrillon, Rene; and Defives, Daniel, 3,662,014.
 Avrillon, Rene; Franckowiak, Sigismund; Gatellier, Claude; and Glikmans, Georges, 3,698,998.
 Baudry, Jean, 3,688,752.
 Boutry, Pierre; Dumas, Jean Claude; and Montarnal, Roger, 3,692,860.
 Capdevielle, Pierre; and Weissmann, Jean, 3,695,289.
 Castela, Andre; and Joubert, Philippe, 3,651,959.
 Chataud, Michel; and Reynard, Remi, 3,686,942.
 Chauvin, Yves; Lefebvre, Gilles; and Uchino, Masahiro, 3,655,810.
 Chevalier, Andre; Grolet, Pierre; and Reynard, Remi, 3,641,658.
 Chevalier, Andre; Grolet, Pierre; and Reynard, Remi, 3,667,112.
 Cosyns, Jean; and Duhaat, Pierre, 3,661,798.
 Dawans, Francois, 3,660,445.
 Derrien, Michel; and Le Page, Jean Francois, 3,674,888.
 Deschamps, Andre; and Renault, Philippe, 3,649,190.
 Duc, Xuong Nguyen; and Bonnamy, Jean Marc, 3,681,927.
 Gabillard, Robert; Louage, Francois; and Desbrandes, Robert, 3,690,164.
 Gatellier, Claude; and Glikmans, Georges, 3,702,283.
 Gosselin, Jean Charles, 3,658,138.
 Harbonn, Jacques, 3,683,258.
 Harbonn, Jacques; and Garnier, Jacques, 3,693,133.
 Jacquin, Yves; and Derrien, Michel, 3,702,291.
 Joubert, Philippe; and Castela, Andre, 3,656,763.
 Juguin, Bernard; and Le Page, Jean Francois, 3,657,150.
 Kulrestha, Girandra Narain; and De Roch, Irene Seree, 3,657,334.
 Laleuf, Rene; and Nechtschein, Jacqueline, 3,686,094.
 Lassau, Christian; and Sajus, Lucien, 3,655,799.
 Lesage, Jean; and Dawans, Francois, 3,696,062.
 Magneville, Pierre; and Duconge, Claude, 3,656,655.
 Magneville, Pierre, 3,685,448.
 Meyer, Colette; and Rebeller, Michel, 3,650,068.
 Phung, Nhu Hung; and Le Febvre, Gilles, 3,640,987.
 Rabilloud, Guy; Sillion, Bernard; and de Gaudemaris, Gabriel, 3,635,892.
 Renault, Philippe; and Gruhier, Henri, 3,658,477.
 Reynard, Remi, 3,687,169.
 Rouchaud, Jean; and Seree De Roch, 3,641,066.
 Salle, Robert; Sillion, Bernard; and de Gaudemaris, Gabriel, 3,706,803.
 Tirasposky, Vladimir; Rouviere, Roger; and Willm, Yves, 3,700,049.
 Torck, Bernard; and Sajus, Lucien, 3,666,825.
 Wiegandt, Herbert Frederick; and Lafay, Regis, 3,662,562.
 Institut Francais Du Petrole des Carburants et Lubrifiants Rueil Malmaison: *See—*
 Chataud, Michel; Grolet, Pierre; and Reynard, Remi, 3,697,114.
 Institut fur Angewandte Physik der Universitat Bern: *See—*
 Banse, Karlheinz Victor Hermann; Seelig, Wolfgang Hagen; Steinger, Jurg Hugo; and Herziger, Gerd Bernd, 3,705,999.
 Broom, Ronald Francis Johnston, 3,663,897.
 Weber, Heinz, 3,676,796.
 Institut fur Plasmaphysik G.m.b.H.: *See—*
 Kafka, Wilhelm, 3,639,672.
 Institut fur Silikon- und Fluorkarbon-Chemie: *See—*
 Dath, Christian, 3,655,714.
 Muller, Richard; and Neef, Hiltrud, 3,658,868.
 Institut fur Silikon- und Fluorkarbon-Chemie: *See—*
 Dath, Christian, 3,646,092.
 Muller, Richard; Frey, Hans; and Dath, Christian, 3,641,082.
 Reichel, Sigrid, 3,665,027.
 Institut geologii i razrabotki goryuchikhskopaemofn: *See—*
 Edigarian, Zorab Parnakovich; Kudinov, Evgeny Ivanovich; and Sukhov, Vladimir Evgenievich, 3,693,730.
 Institut Gornogo Dela Sibirskogo otdelenia Akademii Nauk SSSR: *See—*
 Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tkach, Khaim Berkovich; and Lipovetsky, Lazar Moiseevich, 3,674,099.
 Institut Gornogo Dela Sibirskogo otdelenia Akademii: *See—*
 Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tupitsyn, Konstantin Konstantinovich; and Plavskikh, Vladimir Dmitrievich, 3,705,633.
 Institut Gornogo Dela Sibirskogo Otdelenia AN: *See—*
 Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Nazarov, Nikolai Grigorievich; Tkach, Khaim Berkovich; Demin, Alexandr Ivanovich; and Vorobiev, Dmitry Ivanovich, 3,685,597.
 Institut National de la Recherche Agronomique: *See—*
 Zelter, Zelmen; Delort-Laval, Jean; Lassonnery, Jean; and Rodcaud, Jacques, 3,632,351.
 Institut National de la Sante et de la Recherche Medicale: *See—*
 Rips, Richard, 3,644,352.
 Institut Nationale du Verre A.S.B.L.: *See—*
 Migeotte, Paul, 3,688,235.
 Institut Obsheci i Neorganicheskoi khimii Akademii Nauk SSR: *See—*
 Ermolenko, Igor Nikolaevich; Sviridova, Remma Nikolaevna; and Kuvaeva, Zoya Ivanovna, 3,702,832.
 Institut organicheskoi klimii im. N.D. Zelinskogo AN SSSR: *See—*
 Mikhailov, Nikolai Petrovich; Rapoport, Lev Moiseevich; and Taits, Samuil Zalmanovich, 3,698,235.
 Institut po metaloznanie i tehnologina metalite: *See—*
 Balevski, Angel Tontchev; and Nikolov, Ivan Dimov, 3,650,313.
 Balevski, Angel Tontchev; and Nikolov, Ivan Dimov, 3,693,698.
 Institut po Phiskohimii pri Bulgarska akademia na Naukite: *See—*
 Malinowski, Jordan P., 3,658,540.
 Institut Scientifique et Technique des Peches: *See—*
 Kurc, Georges, 3,693,276.
 Institut Textile de France: *See—*
 Cuvelier, Georges; and Wattiez, Daniel, 3,685,953.
 Delair, Jean-Paul; and Raisin, Jean-Pierre, 3,690,123.
 Parisot, Andre; and Meimoun, Daniel, 3,674,539.
 Institut za Elektroniku in Vakuumsko Tehniko: *See—*
 Tavzes, Radovan; Koron, Jelko; and Kansky, Evgen, 3,657,690.
 Institute for Cancer Research, The: *See—*
 Blumberg, Baruch S.; and Millman, Irving, 3,636,191.
 Mintz, Beatrice, 3,690,310.
 Institute for Industrial Research and Standards: *See—*
 Broderick, Rory Wilson, 3,664,548.
 Institute of Gas Technology: *See—*
 Anderson, Philip J., 3,643,500.
 Baker, Bernard S., 3,663,295.
 Bodle, William W.; and Anderson, Philip J., 3,646,765.
 Klass, Donald L.; and Landahl, Carl D., 3,634,053.
 Klass, Donald L.; and Landahl, Carl D., 3,669,637.
 Kniebes, Duane V., 3,632,283.
 Kniebes, Duane V.; Chisholm, John Adrian; and Stubbs, Robert C., 3,686,930.
 Kweiler, Esher R.; Staats, William R.; and Rosenberg, Robert B., 3,681,002.
 Lee, Bernard Shing-Shu; and Schora, Frank C., Jr., 3,640,016.
 Levitan, Jacob, 3,696,008.
 Linden, Henry R., 3,703,052.
 Mokaam, Raghunath G., 3,690,113.
 Randhava, Sarabjit Singh, 3,663,162.
 Rosenberg, Robert B.; Kweiler, Esher R.; and Staats, William R., 3,698,378.
 Solbrig, Charles W., 3,684,260.
 Wolnak, Bernard; Andreen, Brian; and Wen, Chin-Yung, 3,649,459.
 Institute of Textile Technology: *See—*
 Woodford, Terrence R., 3,678,713.
 Institutet for Halvledarforskning AB: *See—*
 Wallmark, John Torkel, 3,638,078.
 Institutet For Mikrovagsteknik: *See—*
 Andermo, Ingvar, 3,689,157.
 Instituto Chemioterapico Italiano S.p.A.: *See—*
 Garzia, Aldo, 3,692,827.
 Instituto de Angeli S.p.A.: *See—*
 Pala, Gianfranco, 3,686,189.
 Instituto de Quimica Fisica Rocasolano: *See—*
 Espunes, Luis Arizmendi, 3,698,513.
 Instituto Farmacologico Serson S.p.A.: *See—*
 Marchetti, Enzo, 3,658,995.
 Institut for Atomenergi: *See—*
 Lenschow, Rolf Johan, 3,701,227.
 Sauer, Tor Ole, 3,663,366.
 Institutul de Biochimie: *See—*
 Schell, Horst D.; and Ghetie, Victor F., 3,651,041.

- Schell, Horst D.; and Ghetie, Victor F., 3,651,043.
 Institutul de Cercetari in Constructii si Economia Constructiilor: *See—*
 Schwartz, Robert; Manolache, Constantin; Tannenbaum, Marcel; Vasile, Gheorghe; Rey, Vasile; Sima, Constantin; and Camburcanu, Aurel, 3,692,277.
 Institutul de Cercetari Pentru Prelucrare Titeiului: *See—*
 Bucur, Victor; Filotti, Traian Mircea; Georgescu, Eugenia; Mazare, Theodora; Ghejan, Ion; Zirma, Ion; Popescu, Elena Lygia; and Ioszt, Toma, 3,657,153.
 Georgescu, Eugenia; Ghejan, Ion; Bugur, Victor; Zirma, Ion; Mazare, Theodora; Popescu, Elena-Lygia; Olteanu, Bujor; Marulescu, Nicolae; Filotti, Traian-Mircea; Barbul, Marius-Aurel; and Calin, Ion, 3,673,109.
 Georgescu, Eugenia; Ghejan, Ion; Bucur, Victor; Mazare, Theodora; Zirma, Ion; Popescu, Elena Lygia; Budu, Adrian; Olteanu, Bujor; Filotti, Traian Mircea; and Barbul, Marius Aurel, 3,707,509.
 Institutul de Cercetari Si Proiectari Alimentare: *See—*
 Moiescu, Gheorghe; Stoica, Valer; Wolf, Carol; and Spataru, Nicolae, 3,640,206.
 Institutul de Cercetari Tehnologice Pentru Constructii de Masini: *See—*
 Dumitrescu, Traian, 3,673,004.
 Institutul de Fizica: *See—*
 Grigorevici, Radu G.; Devenyi, Andrei Gavril; Florea, Valer; Korony, Gheorghe; Belu, Aretia; and Costachescu, Carol, 3,705,993.
 Institutul de Medicina si Farmacie: *See—*
 Burghel, Thodor; Ichim, Vasile; and Demetrescu, Mihai, 3,650,276.
 Institutul de Virusologie "Stefan S. Nicola E": *See—*
 Horer, Oswald; and Bujor, Eugen, 3,669,554.
 Institutul Oncologic Bucharest: *See—*
 Mogos, Ion; Muscel, Cornel I.; and Dumitrescu, Nicolaie, 3,648,694.
 Institutul Pentru Creatie Stiintifica si Tehnica: *See—*
 Coanda, Henri; and Teodorescu, Constantin, 3,685,614.
 Institutul Politehnic Cluj: *See—*
 Kelemen, Arpad; and Crivii, Mircea, 3,665,498.
 Instituut Voor Bewaring en Verwerking van Landbouwprodukten: *See—*
 Sijbring, Pieter Herman, 3,636,939.
 Sijbring, Pieter Herman, 3,641,924.
 Sijbring, Pieter Herman, 3,687,679.
 Instronics Limited: *See—*
 Cameron, Eugene A., 3,636,256.
 Instrument Systems Corporation: *See—*
 Del Vecchio, Joseph T.; Howell, John; and Bunin, Herbert A., 3,650,578.
 Kaufman, Philip, 3,642,241.
 Klein, Hyman J.; and Trupin, Bennett W., 3,662,425.
 Instrumentation Associates, Inc.: *See—*
 Falk, Donald B., 3,661,528.
 Instrumentation for Medicine Inc.: *See—*
 Asrican, Manfred, 3,680,546.
 Instrumentation Laboratory, Inc.: *See—*
 Blackmer, David E., 3,661,748.
 Blackmer, David E., 3,694,734.
 Gaines, Stanley L., 3,635,251.
 Neuwelt, Robert T., 3,661,010.
 Rolfe, Norman Frederick Ferdinand Joseph, 3,659,082.
 Rosse, Thomas A.; and Blackmer, David E., 3,672,843.
 Rosse, Thomas A.; Blackmer, David E.; Zindler, Jerrold; and Kelley, Thomas F., 3,703,336.
 Spengel, Philip; Gaines, Stanley L.; Maxwell, William; McFayden, Ronald; Rosse, Thomas A.; and Blackmer, David E., 3,658,478.
 Spengel, Philip; and Gaines, Stanley L., 3,664,178.
 Instrumentation Specialties Company: *See—*
 Allington, Robert W.; and Griess, Herbert C., 3,667,056.
 Instrumentation Specialties, Inc.: *See—*
 Allington, Robert W., 3,676,686.
 Instruments for Industry Inc.: *See—*
 Swanson, Elston H.; Fahnstock, James D.; and Wicks, William H., 3,689,849.
 Instruments Systems Corporation, mesne: *See—*
 Mc Cabe, John P., 3,671,685.
 Instytut Wlokien Sztucznych i Syntetycznych: *See—*
 Paszke, Jan; Pstrocki, Henry; Ploszajski, Janusz; Lachman, Rudolf; Stanislaw, Lansy; and Wiszczor, Jan, 3,697,051.
 Insul-Fil Manufacturing Company: *See—*
 Barrington, Jonathan, 3,655,564.
 Insul-R Corporation: *See—*
 Mayo, Cecil J.; and Kilburg, Ronald J., 3,699,275.
 Insulating Fabricator, Inc.: *See—*
 Moore, William C.; and Boos, Alfred J., 3,663,078.
 Inta-Roto, Inc.: *See—*
 Seay, Philip B., 3,670,979.
 Intamin A.G.: *See—*
 Hinterholzer, Hans, 3,645,553.
 Intech Corporation: *See—*
 Glaze, John W., Jr., 3,704,565.
 Intech Incorporated, mesne: *See—*
 Bailey, Dean C., 3,668,543.
 Integral Process Systems, Inc.: *See—*
 Rohrbacher, James T.; and Wagner, Richard C., 3,654,894.
 Integrated Building Industry, Inc.: *See—*
 Collins, Howard W., 3,641,303.
 Integrated Ceilings, Inc.: *See—*
 Curtis, Rolando T., 3,703,307.
 Integrated Controls, Inc.: *See—*
 Vinson, Billy H., 3,696,720.
 Integrated Development and Manufacturing Co.: *See—*
 Davis, Noel, 3,703,814.
 Integrated Mechanical Systems, Inc.: *See—*
 Baker, Alexander; and Vosika, Eugene A., 3,655,041.
 Intel Corporation: *See—*
 Forhman-Bentchowsky, Dov, 3,660,819.
 Vadasz, Leslie L., 3,699,646.
 Vadasz, Leslie L.; and Karp, Joel A., 3,706,079.
 Intellectron Patentverwaltung GmbH: *See—*
 Dethloff, Jurgen; and Grottrup, Helmut, 3,678,250.
 Intelisano, Gianfranco, to Italechemi s.r.l. Istituto Chimico Farmaceutico. Tetracycline derivative, 3,637,826, 1-25-72, Cl. 260-519.
 Intelligent Instruments, Inc.: *See—*
 Slavin, Peter E., 3,641,554.
 Inter Royal Corporation: *See—*
 Engstrom, Carl J., 3,656,805.
 Inter-Locked Fasteners Limited: *See—*
 Winslade, Harry Herbert, 3,675,280.
 Inter-polymer Corporation: *See—*
 Hostettler, Fritz; and Lombardi, Frank G., 3,658,761.
 Hostettler, Fritz; and Lombardi, Frank G., 3,663,515.
 Hostettler, Fritz, 3,666,724.
 Lombardi, Frank G.; and Hostettler, Fritz, 3,663,511.
 Inter-Probe, Inc.: *See—*
 Blomgren, Oscar C., Jr., 3,697,411.
 Blomgren, Oscar C., Sr.; and Blomgren, Oscar C., Jr., 3,670,606.
 Interactive Systems, Inc.: *See—*
 Edwin, Allan I.; and Vlach, Thomas L., 3,694,637.
 Interatom, Internationale Atomreaktorbau GmbH: *See—*
 Fortmann, Manfred, 3,667,644.
 Huns, Rainer; Lancier, Michael; and Becher, Hermann, 3,648,518.
 Interbrev S.A.: *See—*
 Auer, Ulrich W.; and Nicole, Andre, 3,692,068.
 Intercan S.A.: *See—*
 Rogiers, Etienne Marie, 3,653,175.
 Interco Incorporated: *See—*
 Mueller, Charles A., 3,637,107.
 Intercole Automation, Inc.: *See—*
 De Marco, Robert Frank, 3,695,587.
 Matsuoka, James T.; and Cantarutti, Arnindo, 3,700,374.
 Intercontinental Dynamics Corporation: *See—*
 Anderson, John H., Jr., 3,683,690.
 Intercontinental Environmental Controls Ltd.: *See—*
 Gladu, Norman D., 3,660,045.
 Intercontinental Systems, Inc.: *See—*
 Arjani, Farouk D.; Campbell, Kenneth C.; and Smeins, Craig B., 3,664,479.
 Intercosmo s.n.c.: *See—*
 Luciano, De Pietri, 3,677,271.
 Intercraft Industries Corporation: *See—*
 Bell, Randall P.; and Vanderhoef, John P., 3,673,724.
 Lazar, Burton A.; Bell, Randall P.; and Vanderhoef, John P., 3,673,723.
 Interdata, Incorporated: *See—*
 Ellis, David R.; Michels, John; and Gabbert, Ira, 3,675,214.
 Furman, Arthur R.; Jones, Richard; Morland, Charles; and Nestle, Elliot, 3,646,522.
 Interdynamics, Inc.: *See—*
 Trachtenberg, Joseph, 3,634,864.
 Interelectric AG: *See—*
 Mayer, Jurgen, 3,682,017.
 Interface Industries, Inc.: *See—*
 St. Jean, Lloyd E., 3,702,097.
 St. Jean, Lloyd E., 3,702,392.
 Interface Mechanisms, Inc.: *See—*
 Allais, David C., 3,670,145.
 Intergraphic Inc.: *See—*
 Stewart, Wilton A.; and Yu, Ying-Nien, 3,680,805.
 Interlab, Inc.: *See—*
 Layton, Howard M., 3,652,054.
 Layton, Howard M., 3,652,825.
 Layton, Howard M., 3,687,158.
 Interlake, Inc.: *See—*
 Keyser, Naaman H., 3,704,614.
 Madronic, Ivo; and Merdogan, Akgun, 3,666,438.
 Plattner, Robert F.; Weller, Frank C.; and Staron, Edward, 3,687,059.

- Plattner, Robert F.; and Coleman, Bestor P., 3,688,999.
 Plattner, Robert F.; and Kocian, James A., 3,698,310.
 Stahnke, Edward J., 3,674,972.
 Weller, Frank C., 3,672,295.
Interlake Steel Corporation: See—
 Busam, Donald H., 3,658,374.
 Johnson, Robert A., 3,662,678.
 McConnell, Kennedy, 3,689,774.
 Redelman, Paul E., 3,704,800.
 Weller, Frank C., 3,636,861.
 Wochner, Joseph J., 3,648,815.
 Wognum, James N.; Simich, Emil; and Winkler, Alvin L., 3,672,436.
Interlas N.V.: See—
 Stijger, Adrianus G., 3,675,963.
Interlectron Corporation, mesne: See—
 Reavis, Clifford L., Jr., 3,673,037.
Interlego A.G.: See—
 Christiansen, Godtfred Kirk, 3,638,352.
 Christiansen, Godtfred Kirk, 3,667,153.
Intermedcraft Corporation, mesne: See—
 Streckmann, George L., 3,651,280.
Intermenua (Proprietary) Limited: See—
 Breetvelt, Emile, 3,664,221.
Intermountain Research & Development Corporation, mesne: See—
 Seglin, Leonard; and Winnicki, Henry S., 3,655,331.
Intermountain Research and Engineering Company Inc.: See—
 Clay, Robert B., 3,646,844.
 Clay, Robert B.; Cook, Melvin A.; and Udy, Lex L., 3,660,181.
 Cook, Melvin A.; and Udy, Lex L., 3,658,607.
 Cook, Melvin A.; and Balli, Frederick K., 3,660,182.
 Johnson, Raymond A., 3,638,570.
Internal Pipeline Services, Inc.: See—
 Landrum, Ira T., 3,703,947.
International Agri-Systems, Inc.: See—
 Crane, Edward J., 3,673,637.
 Crane, Edward J., 3,689,961.
International Assembly Corporation: See—
 Friberg, Nelson A., 3,641,552.
International Automated Machines, Inc.: See—
 Chung, Yun Hoon, 3,650,390.
 Chung, Yun Hoon, 3,650,391.
 Chung, Yun Hoon, 3,682,366.
International Basic Economy Corporation: See—
 DiTirro, Domenic A., 3,658,082.
International Biophysics Corporation: See—
 Leonard, John E.; and Watanabe, Hideo, 3,681,136.
International Boiler Works Co., The: See—
 Hansen, Erwin, 3,704,693.
International Business Machines Corporation: See—
 Abell, William A., Jr., 3,656,601.
 Abernathy, Roger E.; and Mitrofanoff, Nicholas S., 3,676,852.
 Abolafia, Oscar R.; Butora, John A.; and Orinik, Michael T., 3,705,118.
 Abraham, Dennis G.; and Pawletko, Joseph P., 3,694,725.
 Abramson, Paul; and Goertzel, Gerald, 3,686,576.
 Acquadro, Edward W.; and Monahan, Donald F., 3,706,973.
 Adams, Joseph E.; Di Stefano, Edmund J.; and Enderley, Arthur E., 3,693,087.
 Agin, Gerald J., 3,634,745.
 Agin, Gerald J., 3,668,494.
 Agnihotri, Ram K., 3,644,118.
 Agnihotri, Ram K., 3,669,662.
 Ahn, Kie Y., 3,639,167.
 Ahn, Kie Y.; and Park, Kyu C., 3,656,029.
 Ainslie, Norman G.; Cheroft, George; Graff, William S.; Howard, James Kent; and Ross, Rupert F., 3,695,855.
 Ainsworth, Richard A., 3,668,429.
 Alberts, Gene S.; and Flur, Barry L., 3,647,643.
 Almasi, George S.; and Genovese, Eugene R., 3,680,065.
 Almasi, George S.; Chang, Hsu; Keefe, George E.; and Thompson, David A., 3,691,540.
 Alstad, John K.; Armitage, John D., Jr.; and Bate, Geoffrey, 3,665,431.
 Ambrico, Louis E., 3,657,716.
 Amdahl, Gene M.; Arnold, Richard F.; Dauber, Philip S.; Freiman, Charles V.; Robelen, Russell J.; Schorr, Herbert; and Wierzbicki, John R., 3,670,309.
 Anacker, Wilhelm, 3,643,237.
 Anacker, Wilhelm, 3,646,550.
 Anacker, Wilhelm; and Zappe, Hans H., 3,705,393.
 Andresen, Rolf; Fiorino, Benjamin C.; and Niccore, Fred W., 3,670,304.
 Angelo, Raymond W.; and Houghtalen, Howard G., 3,635,454.
 Antonetti, Vincent W.; Maling, George C., Jr.; Pascuzzo, Albert L.; and Wise, Russell E., 3,688,867.
 Anzelone, Thomas A., Jr.; Larson, Harold A.; and Stricker, Alfred A., 3,677,853.
 Arnold, Richard F.; Dauber, Philip S.; Freiman, Charles V.; Robelen, Russell J.; and Wierzbicki, John R., 3,670,307.
 Arnold, Richard F.; Dauber, Philip S.; and Sussenguth, Edward H., 3,675,215.
 Arseneault, Paul J.; and Feierabend, Louis B., 3,661,309.
 Arulpragasam, Jeganandaraj A., 3,639,904.
 Arulpragasam, Jeganandaraj A.; Binks, Dennis C.; Holmes, John J.; Minshull, John F.; Pinnell, Martin C.; and Williams, Clive, 3,680,052.
 Ash, Eric A.; and Tseng, Samuel Chin-Chong, 3,699,482.
 Ashar, Kanu G., 3,677,837.
 Audretsch, Leo M., Jr.; and Elsner, Matthew, 3,697,697.
 Auletta, Lucien V.; Cornish, Blair E.; Damm, Eugene P., Jr.; Faigenbaum, Mark A.; and Simon, Andrew M., 3,660,263.
 Auletta, Lucien V.; Kim, Yungil; and Simon, Andrew M., 3,663,415.
 Ayling, John K.; and Moore, Richard D., 3,688,280.
 Badami, Angelo V.; Ebert, Ekkehard.; Kemlage, Bernard M.; Kroell, Karl E.; and Pogge, H. Bernhard, 3,669,769.
 Bailey, David L.; and Hinz, Harry C., Jr., 3,641,526.
 Baker, Theodore H.; and Tuman, Daniel, 3,689,803.
 Bakke, Roger M., 3,657,524.
 Bakke, Roger M., 3,671,725.
 Baldwin, Edwin C., Jr.; and Wrenner, Warren R., 3,699,304.
 Balm, Gerald J., 3,651,462.
 Banks, Willard K., 3,666,247.
 Banks, Willard K., 3,666,358.
 Barcomb, James G.; and Kozol, Eugene T., 3,643,039.
 Bardo, Gerald B., 3,638,687.
 Barnard, John D.; Gaito, Carl C.; Giedo, Gary R.; Greene, Thomas G.; Lind, James W.; Perkins, Merlyn H.; and Pross, Charles M., 3,648,175.
 Barrager, Stephen M.; Bate, Geoffrey; and Smith, Sidney H., 3,706,926.
 Barrekette, Euval S.; Baskin, Herbert B.; and Kazan, Benjamin, 3,634,621.
 Barson, Fred; and Lehman, Herbert S., 3,667,115.
 Bartholomew, Gerald E.; Kostuch, Donald J.; Robinson, Thomas E.; and Rohland, William S., 3,697,951.
 Baskin, Herbert B., 3,634,830.
 Baskin, Herbert B.; Belady, Laszlo A.; Evangelisti, Carlo J.; and Morse, Stephen P., 3,680,078.
 Bauermeind, Carl J.; and Zeman, Raymond F., 3,656,060.
 Baumgartner, Richard J.; Lovgren, Jeffrey L.; and McCullough, John W., 3,662,341.
 Bean, Donald E.; Engh, James T.; Hammer, James R.; Schetti, Myron D.; Tashjian, Harry J.; Ullmer, Richard J.; and Kerr, John W., 3,642,197.
 Beausoleil, William F., 3,644,902.
 Beausoleil, William F., 3,648,254.
 Beausoleil, William F.; Ordemann, Fred A., Jr.; Pricer, Wilbur D.; and Vogl, Norbert G., Jr., 3,648,255.
 Beausoleil, William F., 3,654,622.
 Beausoleil, William F.; Brown, David T.; and Walker, Ernest L., 3,670,313.
 Beausoleil, William F.; Ho, Irving T.; Jen, Teh-Sen; and Pricer, W. David, 3,697,962.
 Beausoleil, William F.; Brown, David T.; and Clark, William A., 3,704,452.
 Bederman, Seymour; and Lankford, Larry G., 3,633,011.
 Beesley, James P.; and Gunn, John B., 3,679,959.
 Belleson, James Garman, 3,697,678.
 Benson, Allen B.; and Hatley, Elbert Troy, 3,665,513.
 Berger, Horst H.; and Wiedmann, Sigfried K., 3,643,235.
 Berglund, Neil C.; King, Robert W.; and Swearingen, Kent W., 3,672,297.
 Berglund, Neil C., 3,680,480.
 Berglund, Neil C.; and Petricka, Gerald H., 3,691,947.
 Berkling, Klaus Juergen, 3,646,523.
 Berkman, John W.; and Gravell, Lawrence R., 3,659,779.
 Beumer, Karl W.; Geany, Gerard M.; Haran, John A.; Hecker, Edward P.; Nyman, George E.; and Post, Robert E., 3,643,881.
 Beynon, David S.; and King, Bruce D., 3,666,463.
 Bickford, Jerome R.; and Nicholson, James O., 3,706,887.
 Black, John C.; and Buckley, Frederick, 3,648,061.
 Blackwell, Wayne Waldo; Earle, John Goodell; O'Connell, John Joseph; Pierce, Edwin Bruce; and Shabe, John Edward, 3,704,453.
 Blasbalg, Herman L.; Hayase, Joshua Y.; Crutchfield, Richard C., Jr.; and Najjar, Hann F., 3,700,820.
 Bleher, Johannes Hartmut; Chang, Chi Shih; and Dockerty, Robert Charles, 3,705,419.
 Bluethman, Robert G.; Goldsberry, Paul E.; McConnell, Robert L.; and Simpson, Jack W., 3,654,609.
 Bluethman, Robert G.; and Simpson, Jack W., 3,654,611.
 Blum, Joseph M.; and Hoekstra, Jan P., 3,668,025.
 Blum, Samuel E.; Foster, Luther M.; and Plaskett, Thomas S., 3,642,443.
 Bnaks, Willard K.; and Lyon, James L., 3,690,760.
 Boerger, Frank E.; and White, William H., 3,650,042.
 Boinodiris, Stavros; and Hellwarth, George A., 3,697,980.

- Bonafino, Edward J.; Doolittle, Frederick W.; Hayes, Charles U.; and Yarrington, James C., 3,706,370.
 Bond, Milton F.; and Shatford, John F., 3,694,807.
 Bossen, Douglas C.; and Hsiao, Mu-Yue, 3,634,821.
 Bossen, Douglas C.; and Hsiao, Mu-Yue, 3,671,947.
 Bossen, Douglas C.; Henle, Robert A.; Hsiao, Mu Y.; Maley, Gerald A.; and Pricer, W. David, 3,675,200.
 Bossen, Douglas C., 3,697,948.
 Bouricius, Willard G.; Carter, William C.; Roth, John P.; and Schneider, Peter R., 3,665,173.
 Bouricius, Willard G.; Carter, William C.; Duke, Keith A.; Roth, John P.; and Schneider, Peter R., 3,665,174.
 Bouricius, Willard G.; Carter, William C.; Roth, John P.; and Schneider, Peter R., 3,665,175.
 Bouricius, Willard G.; Carter, William Caswell; Roth, John P.; and Schneider, Peter Robert, 3,665,418.
 Brack, Karl; Gorey, Edward F.; and Schwuttke, Guenther H., 3,666,548.
 Bratek, Richard J., 3,656,671.
 Brayton, Robert K.; Gustavson, Fred G.; and Aachtel, Gary D., 3,705,409.
 Brooks, Kenneth A.; Johnson, Lawrence L.; and Mathewson, James A., 3,693,775.
 Brumbaugh, Philip A.; Harrington, Richard H.; Nemier, Stanley E.; and Nielsen, Thomas C., 3,672,482.
 Buckingham, Robert L.; and Herd, Harold H., 3,647,501.
 Bullock, Michael K.; Miller, Myrl J.; and Voit, William F., Jr., 3,679,099.
 Bunker, William H.; Kerr, John W.; Mitrofanoff, Nicholas S.; and Swearingen, Kent W., 3,680,054.
 Burns, Gerald; Giess, Edward A.; and O'Kane, Daniel F., 3,640,865.
 Burton, Paul T.; Cole, Walter E.; Frassetto, Henry E., Jr.; Gibson, Robert G.; Greenberg, Allan; Handloff, Louis E.; and Radlinsky, Raymond, 3,673,575.
 Buslik, Walter S.; and Chou, Albert S., 3,701,610.
 Cachon, Rene P.; Grundon, Forrest R.; Masterson, Frank H.; Miller, Joseph C.; and Wustrau, Fred E., 3,645,622.
 Cannon, Max R., 3,663,749.
 Capowski, Robert S.; Unterberger, Robert M.; and Horsman, Larry R., 3,699,530.
 Carlsen, Donald W.; Kotla, John J.; and Parker, Arden A., 3,676,646.
 Carlson, Duane G., 3,633,994.
 Carnevale, Richard J.; Howe, Leland D., Jr.; Metz, Thomas A.; Womack, Karl K.; and Zurla, Frank A., 3,656,123.
 Carter, William C.; and Schneider, Peter R., 3,634,665.
 Carter, William C.; Duke, Keith A.; and Jessep, Donald C., Jr., 3,648,239.
 Carter, William C.; Henle, Robert A.; Jessep, Donald C., Jr.; and Wadia, Aspi B., 3,688,265.
 Carter, William C.; Duke, Keith A.; and Jessep, Donald C., Jr., 3,697,949.
 Carter, William C.; and Schneider, Peter R., 3,701,892.
 Carter, William C.; Jessep, Donald C., Jr.; and Wadia, Aspi B., 3,705,357.
 Cassie, John V.; Lima, Philip J.; and McCully, Everette R., 3,646,417.
 Castrucci, Paul P.; Gates, Harlan R.; Henle, Robert A.; Pricer, Wilbur David; Morton, Robert M.; Mason, John W.; and North, William D., 3,641,516.
 Castrucci, Paul P.; Grochowski, Edward G.; North, William D.; and Palfi, Thomas L., 3,648,130.
 Castrucci, Paul P., 3,702,464.
 Chaffee, Mack R.; and Paulson, Thomas M., 3,634,162.
 Chai, Hi D.; Mills, Stephen H.; Pawletko, Joseph P.; Peters, Francis E.; and Young, Carl T., 3,705,370.
 Chambers, James B., 3,643,221.
 Champ, Robert B.; Jurgens, Henry A.; and Thompson, James O., 3,640,714.
 Champ, Robert Bruce; and Shattuck, Meredith David, 3,634,079.
 Chand, Nirmal, 3,639,125.
 Chang, David C.; Schools, Rodman S.; Sincerbox, Glenn T.; and Tao, Tien-Yu, 3,632,214.
 Chang, David C.; and Lipp, James, 3,636,838.
 Chang, Hsu; Keefe, George E.; Lin, Yeong S.; and Rosier, Laurence L., 3,689,902.
 Chang, Hsu; and Genovese, Eugene R., 3,701,125.
 Chang, Leroy L.; and Esaki, Leo, 3,668,480.
 Chapman, Daniel W.; Michaelsen, John D.; and Stryker, Frederick J., 3,666,665.
 Chapman, Daniel W., 3,681,765.
 Chapman, Daniel W.; and Mehta, Rajendra R., 3,681,766.
 Cheney, Raymond E., 3,700,150.
 Chicotka, Richard J., 3,679,501.
 Chittenden, Rudy M.; Deskevich, Stephen; Plummer, Norman R.; Rohrer, Gene D.; and Zaman, Louis F., III, 3,645,392.
 Choquet, Michel F., 3,636,260.
 Chow, Chao K., 3,634,822.
 Cielo, John R.; and Hoffman, Harry S., Jr., 3,694,726.
 Clark, William A., IV; Davies, Charles T., Jr.; Salmond, Kent A.; and Stafford, Thomas S., 3,646,524.
 Clark, William A., IV; Salmond, Kent A.; and Stafford, Thomas S., 3,651,483.
 Clecak, Nicholas J.; and Cox, Robert J., 3,679,670.
 Clecak, Nicholas J.; Cox, Robert J.; and Moreau, Wayne M., 3,695,886.
 Clecak, Nicholas J.; and Cox, Robert J., 3,697,595.
 Closs, Felix H.; Seitzer, Dieter; and Stucki, Peter, 3,647,949.
 Closs, Felix H., 3,647,977.
 Cobb, Richard O.; and Lipp, James, 3,633,183.
 Cochran, Thomas J.; Hazel, Herbert K.; and Rance, William G., Jr., 3,691,864.
 Cochran, Thomas J.; Coughlin, Charles P.; Ficker, Walter W.; Lent, Charles V.; and Sullivan, Joseph M., 3,702,042.
 Cocke, John; Mommens, Jacques H.; and Raviv, Josef, 3,701,111.
 Coffin, Robert T.; Grundmeyer, Raymond W.; Hefner, William H.; and Mitchell, Ferd H., 3,662,389.
 Collier, William W.; and Smith, Ronald M., 3,676,860.
 Colom, Lucas A.; and Levine, Harold A., 3,639,185.
 Colom, Lucas A.; and Levine, Harold A., 3,666,473.
 Conley, William J., Jr.; and Ingram, Clifford G., 3,684,960.
 Cook, William C.; and Hogan, Walter J., 3,641,558.
 Cooper, Leon M., 3,637,306.
 Cormier, Roger L.; Sorg, John H., Jr.; and Thorn, Caryl A., 3,688,274.
 Cornish, Blair E.; Damm, Eugene P., Jr.; and Faigenbaum, Mark A., 3,645,873.
 Courtens, Eric L., 3,650,600.
 Couture, Roger A.; and Lajza, John J., Jr., 3,642,549.
 Cox, Conrad M.; and Fischer, Robert B., 3,681,682.
 Cramer, Lawrence P.; Irons, Harold B.; Kohn, Harold; and Mathis, John P. (said Cramer assor. to), 3,658,629.
 Creedon, John F.; and Kern, Richard W., 3,634,084.
 Cronquist, Donald H., 3,653,568.
 Cronquist, Donald Harry, 3,705,413.
 Crooks, Walter, 3,632,337.
 Crouch, Howard S.; Dickie, Hugh G.; Metcalfe, Albert H.; and Rigbey, Leo J., 3,635,608.
 Crouse, William G., 3,636,382.
 Culver, William H.; and Mehran, Farrokh, 3,643,116.
 Cunningham, James M., 3,653,321.
 Cuomo, Jerome J., 3,697,342.
 Cuomo, Jerome J.; and Laff, Robert A., 3,697,343.
 Cuomo, Jerome J.; Mayadas, Ashok F.; and Rosenberg, Robert, 3,704,166.
 Cuzner, David E.; Rigbey, Leo J.; and Smith, George M., 3,668,487.
 Dahms, Harald; and Hunziker, Heinrich E., 3,648,281.
 Dailey, Jack R.; and Kuntzman, Harry C., 3,706,977.
 Dailey, Jack R.; Kuntzman, Harry C.; and Sargent, John G., 3,706,978.
 Dalziel, Warren L.; Nilson, Jay B.; and Wartner, Donald L., 3,678,481.
 Damm, Eugene P., Jr.; Grobin, Allen W., Jr.; Herel, Edwin H.; and Radovsky, David A., 3,645,859.
 Dauber, Philip S.; Robelen, Russell J.; and Wierzbicki, John R., 3,675,217.
 Davidge, Ronald V.; and Kolpek, Robert A., 3,660,616.
 Davidge, Ronald V.; Locklar, Henry C.; Ralston, James C.; and Ritchie, Robert T., 3,700,328.
 Davidson, Evan E.; and Moore, Richard L., 3,660,822.
 Davis, Roderic A., II, 3,702,007.
 Davis, William H.; Hornung, Louis M.; Lindsey, Royce D.; and Tanner, Howard C., 3,647,041.
 De Witt, David; Dhaka, Vir A.; and Oberai, Avtar S., 3,672,983.
 De Witt, David, 3,707,656.
 DeLong, Egbert D.; Koch, Hans; and Maynard, Kenneth B., 3,672,118.
 Dellehim, John L., 3,707,725.
 Demsky, Herbert M.; Platt, Alan; Rideout, Arthur J.; and Samson, Robert S., 3,650,854.
 Derr, Donald B.; Neff, Gordon W.; and Sambucetti, Carlos J., 3,707,455.
 Detweiler, John R., Jr.; and Tummala, Rao R., 3,640,738.
 Deutsch, Herman; Steward, Edgar H.; and van Gieson, Walter D., Jr., 3,639,694.
 Devore, Ernest W.; and Hotaling, Kenneth L., 3,643,135.
 Dewitt, David, 3,636,384.
 Dhaka, Vir A.; and Kozik, Andrew F., 3,681,147.
 Di Milia, Vincent; Halperin, Arnold; and Koblenz, Morris A., 3,689,747.
 Di Stefano, Edmund J.; Enderley, Arthur E.; and Hoffman, Robert C., 3,654,589.
 Di Stefano, Edmund J.; and Enderley, Arthur E., 3,673,542.
 Dickinson, William H.; and Irwin, John W., 3,645,470.
 Dixon, Roy C.; Hash, Larry J.; and Steen, Robert F., 3,633,168.
 Dobson, Donald R., 3,660,601.
 Dollenmayer, William L., 3,695,741.

Donofrio, Nicholas M.; and Pomeranz, Jehoshua N., 3,676,704.
 Donofrio, Nicholas M.; and Linton, Richard H., 3,706,891.
 Doo, Ven Y.; Regh, Joseph; and Seto, David K., 3,701,659.
 Dowd, Albert A., 3,669,327.
 Drangwid, Karsten E., 3,634,702.
 Drejza, John E.; Henkel, Michael A.; and Morgan, William F., 3,638,565.
 Drejza, John E., 3,640,217.
 Dreyfus, Russell W., 3,657,709.
 Druschel, William O., 3,645,626.
 Druschel, William O., 3,674,487.
 Duffy, Michael C.; Schumann, Paul A., Jr.; and Yeh, Tsu-Hsing, 3,655,457.
 Duffy, Michael C.; and Hudson, Richard L., 3,660,250.
 Dunbar, Robert G., Jr.; and Womack, Karl K., 3,651,475.
 Dupnock, Andrew; Gorey, Edward F.; and Keenan, William A., 3,676,775.
 Dushkes, Sherman Z.; and Trollmann, Conrad, 3,653,572.
 Dushkes, Sherman Z.; and Surtly, Rohinton J., 3,670,944.
 Dym, Herbert; Mazza, Robert V.; and Segar, Lawrence P., 3,662,377.
 Dym, Herbert, 3,668,313.
 Eastman, Hal P., 3,676,851.
 Elbert, Donald L.; Findlay, Hugh T.; and Horne, William H., 3,682,683.
 Elliott, Brian J.; and Staples, John L., 3,704,416.
 Elliott, Joseph E., 3,686,631.
 Elmgren, Jarl A.; and Rodite, Robert R. R., 3,669,871.
 Elmore, Glenn V., 3,668,082.
 Elmore, Glenn V., 3,690,921.
 Evangelisti, Carlo J.; and Rittenhouse, Larry E., 3,668,647.
 Everett, Larry H.; and Judy, Jack H., 3,668,671.
 Faigenbaum, Mark A.; Lasky, Daniel J.; and Weisel, Harold C., 3,669,665.
 Fan, George J.; and Greiner, James H., 3,643,233.
 Fang, Frank F.; and Lean, Eric G., 3,675,140.
 Fang, Frank F.; and Fowler, Alan B., 3,679,492.
 Fang, Frank F.; and Lean, Eric G., 3,679,985.
 Fang, Yang, 3,701,023.
 Faure, Louis H.; and Hardart, Alfred T., 3,647,334.
 Feinberg, Irving; Langdon, Jack L.; and Sitler, Carl L., 3,697,318.
 Findlay, Hugh T.; and Stone, Jerry F., 3,681,186.
 Findlay, Hugh T.; Fuller, Sterritt R., Jr.; and Stone, Jerry F., 3,682,764.
 Fincran, William J., 3,662,881.
 Finnegan, Edward D.; Harper, Leonard Roy; Mitrofanoff, Nicholas S.; and Slutman, Allen C., 3,701,105.
 Fisher, Gene Alan, 3,634,708.
 Fisk, Dale E., 3,691,295.
 Flinders, Michael; Gardner, Peter Lycett; Hallett, Michael Henry; Jones, John W.; Minshull, John Francis; and Taylor, Keith Graham, 3,646,516.
 Flores, Ralph; and Thompson, Herbert E., 3,668,658.
 Fochring, Robert A.; Garnache, Richard R.; and Kenney, Donald M., 3,672,948.
 Forster, Theodor; and Mohr, Theodor O., 3,639,186.
 Fowler, Raymond L.; Parken, Edward W.; Robbins, Larry H.; and Woods, Joe W., 3,666,262.
 Fowler, Raymond L., 3,669,538.
 Franzek, Peter A., 3,689,899.
 Frankeny, Richard F.; and Tuttle, Joey K., 3,675,133.
 Frauenfelder, Lewis S.; and McDowell, Judson A., 3,653,061.
 Freeman, Richard B.; Kawalec, Michael T.; Maholick, Andrew W.; and Stager, Stanley R., III, 3,678,469.
 Frei, Armin H., 3,701,148.
 Freitag, Harlow, 3,654,615.
 Frey, Alexander H., Jr.; Schlosburg, Burton E.; and Tygielski, Ralph E., 3,648,237.
 Froemke, James W., 3,632,997.
 Frost, William Thomas, 3,699,447.
 Furman, Anatol, 3,700,922.
 Furman, Rudolph S.; and Zimmer, Jerrold F., 3,706,491.
 Furois, Philippe C.; and Latta, Garland H., 3,644,756.
 Furois, Philippe C., 3,688,194.
 Gagliani, John, 3,673,289.
 Galetto, Louis V.; and Ramsey, David A., 3,705,333.
 Gamblin, Rodger L.; and Southard, Carl D., 3,656,827.
 Garnache, Richard R.; and Kenney, Donald M., 3,645,545.
 Genovese, Eugene R., 3,662,359.
 Gerbitz, Clarence G., 3,697,852.
 Gersbach, John E., 3,676,703.
 Ghafghaichi, Majid, 3,668,522.
 Giedd, Gary R.; and Perkins, Merlyn H., 3,659,340.
 Glang, Reinhard; Holmwood, Richard A.; Maissel, Leon I.; and Vergnolle, Jean, 3,652,750.
 Godoy, Humbert C.; and Vogelsberg, R. Eric, 3,706,879.
 Goetz, Fred E.; Druzba, Perry R., Jr.; Hause, James R.; and Seeley, Gerard, 3,659,386.
 Goetz, Frederick E.; and Hause, James R., 3,691,694.
 Goldsberry, Paul E., 3,648,249.
 Graham, William I., 3,632,881.
 Grandia, Johannes; and Rohr, Robert Lewis, 3,674,004.
 Greanias, Evon C.; and Levine, Wilbur J., 3,641,500.
 Green, James M., II; Sedgwick, Thomas O.; and Silvestri, Victor J., 3,661,636.
 Green, Richard F.; Scray, Eugene J., Jr.; and Wilder, Donald L., 3,659,087.
 Greenstein, Bernard; Langston, Perry R., Jr.; Narken, Bernt; and Sunners, Brian, 3,663,194.
 Gregor, Lawrence V.; and Zuegel, Markus, 3,658,678.
 Griffing, Brandt M., 3,641,367.
 Griffing, Brandt M., 3,659,238.
 Griffith, Robert L.; and Oldham, Ira B., III, 3,668,631.
 Grubel, Stanley J.; and Merrill, John F., 3,633,113.
 Gukelberger, Thomas F., Jr.; and Kleinfelder, Walter J., 3,682,729.
 Habegger, Millard A., 3,632,187.
 Hagopian, Jacob John, 3,660,617.
 Haines, Robert Samuel, 3,647,540.
 Hall, David W.; Lindholm, John A.; Romankiw, Lubomyr T.; and Schmeckenbecher, Arnold F., 3,702,263.
 Hall, Richard E.; and Segar, Lawrence P., 3,701,099.
 Haller, Ivan; and Huggins, Harold A., 3,656,834.
 Hancke, Peter J.; Judkovics, Monroe; and Urquhart, Robert J., 3,673,399.
 Hardin, William W.; and Traglia, Patrick J., 3,646,584.
 Harper, Leonard Roy, 3,648,072.
 Harr, Jerome D., 3,666,897.
 Harr, Jerome Danforth, 3,705,264.
 Harrington, Richard H., 3,665,852.
 Harris, Erik P.; Lean, Eric G.; and Powell, Carl G., 3,675,150.
 Harris, Richard H.; and Laurer, George J., 3,662,138.
 Harris, Richard H., 3,693,059.
 Harris, Richard H.; and Sedaris, Louis H., 3,694,606.
 Harris, Richard H., 3,699,296.
 Hart, Burt E., 3,649,941.
 Hart, Burt E.; and Peekema, Richard M., 3,652,902.
 Haskell, John W., 3,667,678.
 Hatzakis, Michael, 3,649,393.
 Havas, Janos; and Lechaton, John S., 3,664,942.
 Hayes, Lawrence P., 3,668,990.
 Hazel, Herbert K., 3,646,307.
 Hebert, Roland C., 3,641,877.
 Heilweil, Melvin F.; and McMahon, Maurice T., Jr., 3,633,100.
 Helinski, Edward F., 3,680,590.
 Henle, Robert A., 3,671,772.
 Herd, Harold H.; and Sun, Theresa L., 3,647,456.
 Herron, Christopher C., 3,671,787.
 Hickox, Thomas A.; May, Gordon H.; and Shepard, Joseph E., 3,641,931.
 Hinz, Harry Carl, Jr., 3,639,900.
 Hirsch, Peter M.; Jordan, James A., Jr.; and Lesem, Louis B., 3,642,350.
 Hitt, Donald C., 3,654,448.
 Ho, Irving T., 3,644,850.
 Ho, Irving T.; Maley, Gerald A.; and Waxman, Ronald, 3,662,351.
 Ho, Irving T.; Howell, Peter E.; and Jen, Teh-Sen, 3,665,210.
 Ho, Irving T., 3,676,863.
 Hoberrecht, Verlin L., 3,680,077.
 Hodgson, Rodney T., 3,654,567.
 Hoffman, Harry S., Jr., 3,649,940.
 Hoffman, Harry S., Jr.; and Saia, Jerry, 3,681,623.
 Hoffman, William K.; and Sumilas, John W., 3,648,063.
 Hoffman, William K., 3,648,065.
 Hoffman, William K., 3,663,835.
 Hogan, Walter J.; and Malden, Ancile E., 3,641,559.
 Hohl, Jakob H.; and Raacke, Karl H., 3,654,109.
 Holdaway, Daniel O., 3,699,350.
 Holecsek, Joseph J.; and Zolnosky, Larry D., 3,645,526.
 Hollaway, John T.; and Pingry, Carl O., III, 3,676,859.
 Hollstein, Carl P., Jr., 3,653,062.
 Holovka, Charles Jr.; Demchysyn, Bohdan; and McHugh, John Francis, 3,704,015.
 Hong, Se J., 3,693,152.
 Hoogendoorn, Cornelius; Moody, Mattie; and Schwuttke, Guenter H., 3,644,154.
 Hoogendoorn, Helen M.; Liberman, Herbert E.; Narken, Bernt; and Sunners, Brian, 3,639,976.
 Hoogendoorn, Helen M.; Narken, Bernt; Roeder, Paul J.; and Sunners, Brian, 3,678,211.
 Hornung, Louis Michael, 3,668,651.
 Horowitz, Isaac; Laurich, Lawrence A.; and Niccore, Fred W. (said Laurich and Niccore assors. to), 3,646,452.
 Horton, John W., 3,640,271.
 Horwath, Ronald S.; and Sadagopan, Varadachari, 3,661,436.
 Houser, George G.; and Jenkins, Robert E., 3,680,103.
 Howard, Webster E., Jr.; Ludeke, Rudolf; and Stiles, Phillip J., 3,648,124.
 Hsiao, Mu-Yue; and Mikhail, Wadie F., 3,656,107.
 Hsiao, Mu-Yue; and Mikhail, Wadie F., 3,685,014.

Htoo, Maung S., 3,652,273.
 Hu, Paul Y., 3,668,452.
 Igel, John J.; and Schettl, Myron D., 3,665,403.
 Irwin, John W., 3,641,534.
 Irwin, John W., 3,654,617.
 Iskiyan, James L.; Waddell, James M.; and Way, Donald L., 3,699,526.
 Jakubowski, Marek; and Pawletko, Joseph P., 3,636,429.
 Jakubowski, Marek, 3,645,378.
 James, Randell L., 3,675,216.
 Janssen, Donovan M.; and Meyer, Clarence G., 3,679,283.
 Jensen, Donald F.; Rickenbach, David H.; and Schaffer, Robert R., 3,658,088.
 Johnson, Oliver Duane, 3,706,238.
 Johnson, Robert Allen; Richards, Erwin H.; and Watson, Roy H. A., 3,649,081.
 Johnson, Robert L.; and Leach, David W., 3,670,612.
 Johnston, David L.; and Nelson, Paul E., 3,662,375.
 Johnston, Harold K.; and Larson, Theodore L., 3,702,273.
 Johnston, Harold Kenneth, II, 3,649,358.
 Jones, Gardner D., Jr., 3,633,170.
 Jones, John E.; and Enroe, Paul V., 3,699,312.
 Jones, John Earle, 3,701,886.
 Jones, Richard A., 3,641,556.
 Jordan, Paul V.; Palmieri, John A.; and Wade, William T., 3,678,475.
 Jordan, Paul V., 3,699,362.
 Joshi, Madhukar L.; Platt, Alan; and Wajda, Edward S., 3,649,388.
 Joyce, James M., 3,670,234.
 Judge, Robert L.; and Pearson, Eugene S., 3,676,832.
 Kanazawa, Kay Keiji; and Street, George Bryan, 3,666,554.
 Kanazawa, Kay Keiji; Sciki, Hajime; and Street, George Bryan, 3,700,498.
 Karol, Kenneth N., 3,645,179.
 Karol, Kenneth N., 3,650,021.
 Kaufmann, Morris; and Shultz, Bernard R., 3,669,757.
 Kazan, Benjamin, 3,662,355.
 Kazan, Benjamin, 3,673,594.
 Kekas, Dennis H., 3,668,356.
 Keller, Gunter; Knauff, Gunter; Skuin, Petar; and Vogt, Edwin, 3,649,817.
 Kemerer, Douglas W.; and Pomeranz, Jehoshua N., 3,656,004.
 Kemlage, Bernard M.; and Pogge, Hans B., 3,698,947.
 Kern, Richard W., 3,672,778.
 Keyes, Robert W.; and Weiser, Kurt, 3,642,544.
 Klein, Bergert G., 3,683,228.
 Klein, Donald L.; Mac Intyre, Michael W.; and Rothman, Lawrence J., 3,669,669.
 Knappe, La Verne F., 3,649,857.
 Knauff, Gunter; Koederitz, Fritz; Painke, Helmut; Reichl, Leopold; Lampe, Hans H.; Vachenaucr, Robert; Vogt, Edwin; and Weber, Hermann, 3,659,273.
 Knepper, Delbert M., Sr., 3,676,689.
 Kobayashi, Hisashi, 3,634,773.
 Kobayashi, Hisashi; and Tang, Donald T., 3,648,265.
 Koenig, Harold R., 3,661,761.
 Kocns, Jeffrey G.; and Merillat, Robert D., 3,698,072.
 Kolankowsky, Eugene; and McMahon, Robert F., 3,638,199.
 Kolankowsky, Eugene, 3,638,204.
 Kolankowsky, Eugene; McMahon, Robert F.; and Perlman, David J., 3,643,236.
 Kolpek, Robert A., 3,674,125.
 Kong, Ning, 3,688,866.
 Kozol, Eugene T.; and Wohl, Robert J., 3,676,588.
 Krause, Konrad A.; and Moradzadeh, Yaqub, 3,691,993.
 Kriger, Ronald J., 3,679,915.
 Kruppa, Robert W.; Weber, Edward V.; and Woodard, Ollie C., 3,644,700.
 Kuckein, Paul A.; and Mueller, Francis E., 3,633,202.
 Kuhn, Lawrence; Sadagopan, Varadachari; and Tsui, Robert T., 3,696,312.
 Kurzweil, Fred, Jr.; Prentky, Peter I.; and Hasty, Charles E., 3,632,900.
 Laming, Frank P.; Levine, Solomon L.; and Sincerbox, Glenn T., 3,695,879.
 Lang, Paul C.; La Pine, Anthony N.; and Vaughn, Julian E., 3,701,039.
 Langdon, Jack L., 3,656,028.
 Langendorf, Matthew P.; and Ridings, Charles L., 3,647,985.
 Langendorf, Matthew P., 3,691,300.
 Lasky, Daniel J.; and Weisel, Harold C., 3,666,648.
 Laurer, George J.; and Skatrud, Ralph O., 3,700,859.
 Lautier, Alex Honore; and Monrolin, Jean Louis, 3,668,570.
 Lawrence, George; and Mueller, Hans J., 3,688,285.
 Lay, Frank M., 3,646,384.
 Lay, Frank M., 3,666,981.
 Lean, Eric G.; Pennington, Keith S.; Pole, Robert F.; and Powell, Carl G., 3,633,995.
 Lean, Eric G.; Pole, Robert V.; and Tseng, Samuel Chin-Chong, 3,633,996.
 Lean, Eric G.; Sadagopan, Varadachari; and Tseng, Samuel Chin-Chong, 3,648,081.
 Lean, Erich Gung Hwa; Pole, Robert Valdimir; and Tseng, Samuel Chin-Chong, 3,684,892.
 Lec, Kenneth, 3,681,245.
 Lee, Robert E.; McDermott, Philip S.; and Pan, Edward S., 3,642,529.
 Leighton, Howard N., 3,633,005.
 Lescure, Jean P., 3,663,384.
 Lester, William C.; Nuccio, Carlo; and Ward, Ernest S., 3,652,444.
 Lester, William Carl; Nuccio, Carlo; and Ward, Ernest S., 3,707,452.
 Li, Pei-Ching; and Tsang, Paul J., 3,706,597.
 Libby, Edwin L., 3,694,070.
 Liberman, Richard A., 3,651,474.
 Ling, Huci, 3,633,018.
 Linton, Richard H.; and Palfi, Thomas L., 3,646,525.
 Lipp, James, 3,642,347.
 Lipp, James, 3,664,737.
 Lloyd, Robert H. F., 3,638,081.
 Lloyd, Robert H. F., 3,654,530.
 Loh, Louis S.; Mommens, Jacques H.; and Raviv, Josef, 3,694,813.
 Loh, Louis S.; Monnens, Jacques H.; and Raviv, Josef, 3,701,108.
 Lohmann, Adolf W., 3,637,293.
 Lohrey, Fred H.; and Wiedmann, Siegfried K., 3,643,231.
 Loizides, Edward; Lucas, Donald J.; and Steigerwalt, George F., 3,643,226.
 Lorenz, Max R., 3,677,836.
 Lourie, Janice Richmond; and Woo, Lin S., 3,634,827.
 Luhrs, Otto R., 3,678,220.
 Lumpkin, Oscar J.; and Shiren, Norman S., 3,657,554.
 Lussow, Robert O.; and Wirtz, Louis H., 3,639,143.
 Luttmann, Erwin W.; and Medley, Harold C., 3,666,518.
 Lynott, John J.; and Treseder, Robert C., 3,633,186.
 Lynott, John J., 3,706,857.
 Lyons, Vincent J.; and Sandhu, Jagtar S., 3,658,606.
 Magill, Peter J.; McCurry, Robert E.; and Speicher, Charles A., 3,651,498.
 Maissel, Leon I.; Narken, Bernt; and Sunners, Brian, 3,650,737.
 Maley, Gerald A.; and Walsh, James L., 3,656,117.
 Maley, Gerald A.; and Walsh, James L., 3,660,677.
 Maley, Gerald A.; and Walsh, James L., 3,660,678.
 Maley, Gerald A.; and Walsh, James L., 3,671,763.
 Maley, Gerald A.; and Walsh, James L., 3,671,764.
 Malley, William G.; and Cayton, David W., 3,690,383.
 Marchese, Michael A.; and Morgan, Lynn R., 3,684,484.
 Marshall, James C.; and Stewart, Terrence J., 3,632,454.
 Mathisen, Einar S., 3,677,634.
 May, Frederick T., 3,700,872.
 May, Gordon Herbert, 3,671,719.
 McAuliffe, Gerald K., 3,679,882.
 McCarthy, Justin H., Jr., 3,652,987.
 McConnell, Robert L.; and Simpson, Jack W., 3,648,271.
 McDonnell, James A., 3,651,485.
 Medvecky, Bartholomew P.; Oberai, Avtar S.; and Platt, Alan, 3,676,231.
 Mee, C. Denis, 3,662,361.
 Melnyk, George, 3,702,467.
 Mendel, Eric, 3,662,500.
 Mendel, Eric, 3,662,501.
 Mesley, Nimrod N., 3,642,476.
 Mettraud, Claude G., 3,675,563.
 Metz, Thomas A.; and Womack, Karl K., 3,651,476.
 Middelhoeck, Simon; and Sasso, Giovanni, 3,669,732.
 Minero, Richard H.; Anello, Anthony J.; Furey, Robert G.; and Palounek, Lubos R., 3,660,646.
 Minshull, John F.; and Murphy, Alan S., 3,681,762.
 Missel, Leo, 3,639,218.
 Moffitt, John Stuart, 3,692,936.
 Moradzadeh, Yaqub; and Bettiga, Albert C., 3,682,678.
 Moreau, Wayne M.; and Rottmann, Hans R., 3,676,002.
 Mueller, Francis E., 3,665,437.
 Mueller, Francis E., 3,691,543.
 Mullery, Alvin P.; and Zurcher, Frank W., Jr., 3,648,253.
 Napier, John, 3,691,290.
 Neff, Gordon W.; Sambucetti, Carlos J.; and Tomko, John E., 3,689,378.
 Nelson, Robert Gordon, 3,639,688.
 Nocell, Newton G.; and Roller, Donald C., 3,645,372.
 Norwood, Richard E., 3,643,037.
 Ogden, George D.; and Tencza, Albert D., 3,680,943.
 Oktay, Sevgin; and Schmeckenbecher, Arnold F., 3,706,127.
 Oldham, Ira B., III, 3,668,632.
 Page, Josiah B., 3,702,006.
 Palmer, Myron D., 3,706,612.
 Parker, John E., 3,678,313.
 Parry, Walter E., 3,684,827.
 Patel, Arvind M., 3,703,705.

Patel, Arvindkumar M., 3,638,203.
 Patel, Arvindkumar M.; and Wellbrock, Anton G., 3,662,364.
 Patrick, Robert L.; and Richard, Patrick L., 3,706,974.
 Payne, Arthur D.; and Reinheimer, Harry J., 3,659,089.
 Pennington, Keith S.; Shelton, Glenmore L., Jr.; and Will, Peter M., 3,667,831.
 Phillips, Sidney L., 3,704,211.
 Phinney, Richard R., 3,645,229.
 Picard, Jean L., 3,633,166.
 Picciano, James K.; and Zauchner, Joseph, 3,702,926.
 Pickholtz, Raymond L., 3,675,131.
 Pole, Robert V., 3,654,389.
 Powers, John V.; and Romankiw, Lubomir T., 3,652,442.
 Prael, Marvin E., 3,706,426.
 Prentky, Peter I.; and Wilson, Alonzo A., 3,665,327.
 Putnam, David T.; and Tatum, William C., 3,647,582.
 Putnam, David T., 3,675,373.
 Queener, Carl A., 3,647,293.
 Rahenkamp, Robert A.; and Stewart, William R., Jr., 3,671,683.
 Raier, Wilhelm G., 3,643,240.
 Raviv, Josef, 3,675,211.
 Raviv, Josef; and Wesley, Michael A., 3,675,212.
 Reiley, Forrest A.; and Richcreek, James T., 3,693,165.
 Reinheimer, Harry J., 3,699,323.
 Revitz, Martin; and Turene, Francis E., 3,641,402.
 Revitz, Martin; and Thompson, James M., 3,701,931.
 Rideout, Arthur J., 3,656,034.
 Rigotti, James M., 3,659,841.
 Rinkleib, Helfried O., 3,631,971.
 Rittenhouse, Larry E., 3,705,263.
 Roberts, David C., 3,699,536.
 Rocher, Edouard Y.; and Schuster, Stanley E., 3,657,699.
 Romankiw, Lubomir T.; and Wardly, George A., 3,662,119.
 Rooney, James J.; and Walach, Augustyn Z., 3,670,230.
 Royle, David; and Machol, Guenther K., 3,653,066.
 Ruszczyk, James F.; and Secrist, Duane R., 3,670,112.
 Ruszczyk, James F.; and Secrist, Duane R., 3,681,044.
 Rutz, Elisabeth M., 3,699,344.
 Sadagopan, Varadachari, 3,649,501.
 Saia, Jerry, 3,696,285.
 Salmassy, Oscar E.; and Sullivan, Robert E., 3,704,363.
 Schaefer, John O., 3,666,070.
 Schedewie, Franz, 3,692,397.
 Schlaepfer, Carl E., 3,683,413.
 Schloss, Phillip Christian, 3,696,343.
 Schuenemann, Claus H.; and Spruth, Wilhelm G., 3,681,761.
 Sechler, Robert F., 3,675,218.
 Secrist, Duane R.; and Turk, Harold L., 3,639,701.
 Shafer, Merrill W., 3,704,278.
 Shattuck, Meredith David; and Weiche, William J., 3,676,210.
 Shepard, Joseph Emanuel, 3,681,724.
 Sheppley, William S., Jr., 3,643,389.
 Siegel, Arthur R., 3,704,512.
 Sierra, Hugh M., 3,648,038.
 Simon, Paul, 3,657,806.
 Simone, Roy R. De; and Linton, Richard H., 3,704,384.
 Sims, Jimmy A., 3,637,433.
 Sincerbox, Glenn T., 3,632,182.
 Singh, Shanker; and Singh, Vijendrap P., 3,636,443.
 Singh, Shanker, 3,675,001.
 Skarvinko, Eugene R., 3,669,667.
 Sorokin, Peter P., 3,679,995.
 Speicher, Charles G., 3,645,178.
 Srinivasan, Rangaswamy; and Hiraoka, Hiroyuki, 3,647,656.
 Stahlberg, Eugene G.; Tagawa, James M.; and Tiao, Hui-Li, 3,686,470.
 Steger, Donald J., 3,703,853.
 Stoop, Egbertus P., 3,680,419.
 Strobe, Douglas H.; and Wilson, Alan D., 3,672,744.
 Stuby, Kenneth P., 3,648,131.
 Stuckert, Paul E., 3,634,789.
 Swearingen, Kent W., 3,693,160.
 Tagawa, James M.; and Tiao, Hui-Li, 3,706,979.
 Tait, John B., 3,669,521.
 Tang, Donald T., 3,647,964.
 Tate, Lawrence A., 3,670,314.
 Terman, Lewis Madison, 3,648,066.
 Terry, David W., 3,631,957.
 Terry, David W., 3,676,853.
 Thornley, Richard F. M., 3,665,429.
 Thorpe, Allan C., 3,631,606.
 Tinghitella, Michael J.; and Roon, Kenneth E., 3,694,238.
 Tseng, Samuel Chin-Chong, 3,680,007.
 Uberbacher, Edward C., 3,686,617.
 Utley, Brian G., 3,653,037.
 Van Den Honert, Taco H., 3,663,012.
 Vanderslice, James T., 3,668,420.
 Vinal, Albert W., 3,680,064.
 Vogel, Marcel J., 3,639,188.
 Vogel, Siegfried F., 3,681,226.
 Vora, Madhukar B., 3,703,420.
 Wajda, Edward S., 3,660,180.
 Wardly, George A., 3,679,896.
 Washington, Richard S., 3,651,487.
 Watkins, Robert V., 3,665,103.
 Watts, Robert Z.; and Weiss, Robert L., 3,696,341.
 Weinberger, Arnold, 3,644,906.
 Weisman, Renee L., 3,645,855.
 Weiss, Alfred, 3,662,348.
 Wenner, John W., 3,666,202.
 Werner, Allen J., 3,673,473.
 Wheelock, Charles E., 3,669,018.
 Wheelock, Charles E., 3,669,663.
 Wiedmann, Siegfried K., 3,655,999.
 Wiedmann, Siegfried K., 3,657,612.
 Wiedmann, Siegfried K., 3,676,713.
 Wiedmann, Siegfried K., 3,693,057.
 Wiedmer, Fritz S., 3,676,615.
 Wiedmer, Fritz S., 3,676,616.
 Williams, Kenneth Barnett, 3,697,707.
 Williams, Thomas A., 3,662,188.
 Winnard, James R., 3,693,032.
 Woodall, Jerry M., 3,675,026.
 Yakubowski, Carl, 3,706,475.
 Yao, Ying L., 3,641,360.
 Yhap, Ernesto F., 3,700,873.
 Zaman, Louis F., III, 3,679,986.
 Zurlo, Frank A., 3,648,246.
 International Combustion (Holdings) Limited: *See—*
 Rodgers, Wilfred Newrick, 3,695,299.
 International Company: *See—*
 Togami, Paul G., 3,638,407.
 International Computer Limited: *See—*
 Taplin, Stanley Donovan; and Pettitt, Malcolm Jack, 3,700,825.
 International Computer Products, Inc.: *See—*
 Mauch, Harold A.; and Miller, Robert N., 3,685,021.
 Miller, Robert N., 3,704,401.
 International Computers Limited: *See—*
 Case, Derek Frank; and Stammers, Kenneth, 3,687,650.
 Darwin, George Pember, 3,652,990.
 Derc, Roman; Eitel, Ronald John Frank; and Bragg, Cecil, 3,669,446.
 Draper, James Krishen; and Chick, David Michael, 3,671,779.
 Foster, Alan, 3,665,484.
 Hanslip, Trevor William, 3,683,163.
 Jackson, Howard Rodney, 3,676,857.
 Lutterkort, Hans Heinz, 3,686,560.
 Reynolds, Christopher Finch, 3,633,179.
 Scarrott, Gordon George, 3,694,678.
 Ties, Sidney, 3,671,351.
 Turner, Ian, 3,676,874.
 Twine, Kenneth Frederick C., 3,698,611.
 Whitehead, Cecil Thomas; and Critchley, Anthony Francis Ewart, 3,641,502.
 International Controls Corporation: *See—*
 Shmueli, Kalman; Scott, Robert T.; and Mills, Wallace R., 3,640,318.
 International Data Systems: *See—*
 Nailen, James C., 3,699,254.
 International Development Corporation: *See—*
 Hill, William J., 3,648,762.
 International Dynetics Corporation: *See—*
 Longo, Joseph F., 3,654,855.
 International Education Sewing Manual, Inc.: *See—*
 Wener, Harry, 3,652,143.
 International Electric Research & Equipment Ltd.: *See—*
 Pask, Arthur H.; Sparrow, Robert E.; and Boulanger, Roger J., 3,681,536.
 International Farm Systems, Inc.: *See—*
 Stevens, Roger H.; and Blair, Bruce A., 3,633,547.
 International Fineblanking Corporation: *See—*
 Smith, Roger K., 3,673,908.
 International Flavors & Fragrances Inc.: *See—*
 Beets, Muus G. J.; and van Essen, Harm, 3,702,343.
 Blumenthal, Jack H., 3,637,859.
 Blumenthal, Jack H., 3,647,880.
 Brodnitz, Michael H.; and Pascale, John V., 3,647,481.
 Brodnitz, Michael H.; Pascale, John V.; and Vock, Manfred H., 3,686,323.
 Brodnitz, Michael H.; and Pascale, John V., 3,686,324.
 Evers, William J.; Katz, Ira; Wilson, Richard A.; and Theimer, Ernst T., 3,647,792.
 Evers, William John, 3,666,495.
 Grossman, James D.; Mookherjee, Braja D.; De Simone, Robert; and Theimer, Ernst T., 3,679,749.
 Grossman, James Douglas; De Simone, Robert Santora; and Heeringa, Lambertus Gerke, 3,634,491.
 Grossman, James Douglas; and Light, Kenneth K., 3,701,801.
 Hall, John B., 3,636,113.
 Hall, John B., 3,636,165.
 Hall, John B., 3,636,176.
 Hall, John B., 3,647,826.

Hall, John B., 3,669,908.
 Hall, John B.; and Vock, Manfred, 3,694,232.
 Katz, Ira; Wilson, Richard A.; and Giacino, Christopher, 3,681,088.
 Katz, Ira; Evers, William John; and Giacino, Christopher, 3,706,577.
 Kratz, Philip De C.; and Bondarovich, Henry A., 3,686,004.
 Mitchell, Peter W. D.; and Blumenthal, Jack Herbert, 3,655,722.
 Mookherjee, Braja D., 3,679,750.
 Mookherjee, Braja D.; and Taylor, William I., 3,681,395.
 Mookherjee, Braja D.; and Taylor, William I., 3,681,396.
 Mookherjee, Braja D.; and Betts, Muus G. J., 3,684,809.
 Mussinan, Cynthia; Giacino, Christopher; and Katz, Ira, 3,677,772.
 Pittet, Alan O.; Mason, Michael E.; Theimer, Ernst T.; and Tibbetts, Merrick S., 3,686,177.
 Pittet, Alan O.; and Seitz, Eugene W., 3,687,692.
 Pittet, Alan O.; Muralidhara, Ranya; and Theimer, Ernst T., 3,705,158.
 Pittet, Alan O.; and Muralidhara, Ranya, 3,705,121.
 Theimer, Ernst T., 3,681,464.
 Theimer, Ernst T., 3,703,479.
 Wight, Christian F., 3,660,311.
 International Harvester Company: *See—*
 Asmus, Rodger W.; and Borghoff, William R., 3,667,226.
 Asmus, Rodger W., 3,675,421.
 Asmus, Rodger W., 3,699,677.
 Bardos, John J.; and Poplawski, Joel J., 3,699,679.
 Barkstrom, Reynold; and Peacock, Peter J., 3,635,494.
 Boetto, Charles; Stufflebeam, John F.; and Artman, Noel G., 3,653,449.
 Boetto, Charles; and Orkwiszewski, Wayne L., 3,677,348.
 Boram, William R.; and Aclé, Luis, Jr., 3,700,649.
 Bradshaw, Norman Francis, 3,691,867.
 Carlson, Ernest C.; Howells, Arthur J., Jr.; Jennings, Marvin D.; Eastman, Donald R.; and Sheets, Edward G., 3,698,580.
 Chatterjea, Probir K., 3,677,362.
 Connor, Donald E., 3,658,018.
 Connor, Donald E.; and Boetto, Charles, 3,664,434.
 Deli, Jack M.; Kowaczky, Frank J.; Fanslow, Ronald J.; and Pisani, Marino J., 3,645,350.
 Derrickson, Charles, Jr.; and Rodgers, Robert A., 3,669,488.
 Fetter, John T.; and Olsson, Nils O., 3,696,681.
 Fischer, Raymond C., 3,654,999.
 Fischer, Raymond G., 3,675,945.
 Fort, Edward F., 3,669,083.
 Frase, Roland J.; and O'Neil, Gordon R., 3,638,829.
 Fritz, Edward A., 3,646,735.
 Fritz, Norman George, 3,643,583.
 Fueslein, Jerome L.; and Adams, William M., 3,637,028.
 Fueslein, Jerome L., 3,640,346.
 Fueslein, Jerome L., 3,643,743.
 Fueslein, Jerome L.; and Adams, William M., 3,648,780.
 Fueslein, Jerome L., 3,650,333.
 Fueslein, Jerome L.; and Andrews, Fred R., 3,693,724.
 Gardner, Frank H., 3,704,574.
 Gesior, Augustyn M., 3,662,922.
 Graham, Stanford G.; Sewelin, Ernest R.; Staadt, Richard L.; and Pinney, Jimmie D., 3,638,749.
 Hamouz, George J.; Dalenberg, W. Robert; and Zurek, James W., 3,672,137.
 Hicks, Harlan E., 3,645,324.
 Hillingrathner, Franz, 3,667,317.
 Houtz, Kenneth E., 3,677,613.
 Johnson, Robert W.; and Porter, Robert B., 3,668,943.
 Johnson, Robert W.; and Karpiel, Harvey B., 3,671,070.
 Johnston, Edward J., 3,698,172.
 Kampert, Keith W.; and Houtz, Kenneth E., 3,666,332.
 Keller, Arthur H., 3,664,107.
 Kolinger, Kenneth J., 3,656,558.
 Lienemann, Darlo; and Henry, Daniel, 3,670,671.
 Luft, Robert G., 3,675,966.
 Luft, Robert G., 3,677,358.
 Luft, Robert G., 3,679,018.
 Luft, Robert G., 3,698,759.
 MacDonald, Raymond D., 3,680,233.
 Marquardt, Julius F.; and Wade, Ronald A., 3,668,794.
 Mayer, Walter, 3,648,781.
 McCallum, Donald A., 3,672,134.
 McCallum, Donald A., 3,698,332.
 Meitl, Harold G., 3,633,351.
 Meitl, Harold G., 3,693,774.
 Metcalfe, Arthur G.; and Rose, Fred K., 3,644,698.
 Morkoski, James; and Garriott, Louis B., Jr., 3,698,486.
 Nelson, Vaughn A., 3,653,405.
 Nelson, Vaughn A., 3,668,975.
 Nelson, Vaughn A., 3,670,770.
 Nelson, Vaughn A., 3,698,434.
 Orendorff, John W., 3,635,495.
 Peacock, Peter J.; and Scarnato, Thomas J., 3,672,135.
 Peacock, Peter J.; and Gordon, Paul C., 3,672,136.
 Pool, Stuart D.; and Meitl, Harold G., 3,667,200.
 Porter, Robert B.; Ardel, Clarence A.; and Storck, Robert C., 3,700,081.
 Powilleit, Hansherger, 3,693,763.
 Ruhl, Charles A. L.; Meyer, Edward; and Chatterjea, Probir K., 3,693,503.
 Sammarco, Peter; and Zimmerman, Arnold, 3,648,538.
 Scarnato, Thomas J.; and Peacock, Peter J., 3,633,345.
 Scarnato, Thomas J.; Adams, James R.; Keller, Arthur H.; and Peacock, Peter J., 3,637,237.
 Scarnato, Thomas J.; Meyer, Martin H.; and Peacock, Peter J., 3,641,750.
 Scarnato, Thomas J.; Meyer, Martin H.; and Cicci, George B., 3,645,574.
 Scarnato, Thomas J.; and Patterson, N. Donald, 3,672,132.
 Scarnato, Thomas J.; Tufts, Guy O.; Peacock, Peter J.; and Cicci, George B., 3,672,138.
 Scarnato, Thomas J.; Gordon, Paul C.; Hunter, Stephen R.; Krage, Paul W.; and Zablocki, Richard A., 3,633,779.
 Scarnato, Thomas J.; Dryan, James J.; Lawler, Craig M.; and Sorensen, Robert, 3,678,671.
 Scarnato, Thomas J.; Peacock, Peter J.; Cicci, George B.; Krage, Paul W.; and Kowalik, John J., 3,683,602.
 Scarnato, Thomas J.; and Meyer, Martin H., 3,698,162.
 Scarnato, Thomas J.; Peacock, Peter J.; and Kowalik, John J., 3,699,758.
 Schubert, William L., 3,698,524.
 Segredo, John D., 3,654,752.
 Shore, Daniel B., 3,698,583.
 Skanes, Frederick A.; Aker, Ludwig E.; and Kraemer, Ronald G., 3,662,847.
 Swanson, William C.; Moyer, Donald W.; and Asmus, Rodger W., 3,699,678.
 Tufts, Guy O.; Scarnato, Thomas J.; and Peacock, Peter J., 3,670,483.
 Winker, Bernard L., 3,655,000.
 Young, William P.; and Halgren, John A., 3,669,652.
 Zagotta, Joseph L.; Wallace, R. Eugene; and Burlington, Donald A., 3,680,737.
 Zimmerman, Arnold, 3,690,427.
 Zurek, James W., 3,669,194.
 International Harvester Company of Great Britain Limited, *mesne: See—*
 Brooke, David W. I., 3,669,205.
 Brooke, David William Ingham, 3,669,208.
 Brooke, David William Ingham, 3,669,209.
 Fellgett, Peter Berners; and Whitfield, George Robert, 3,669,207.
 International, Inc.: *See—*
 Wessel, Paul D.; and Nelson, Max A., 3,681,721.
 International Laser Systems, Inc.: *See—*
 Crow, Thomas G., 3,634,779.
 International Lead Zinc Research Organization, Inc.: *See—*
 Overmars, Henricus Gerardus Josef; Van Elven, Aris; and Noltes, Jan Gerrit, 3,641,178.
 Radtke, Schrade F., 3,641,080.
 Radtke, Schrade F., 3,641,081.
 Willemsens, Louis C., 3,658,862.
 International Machinery Corporation, S.A.: *See—*
 Mansfield, Tom, 3,650,374.
 Mencacci, Samuel A., 3,656,528.
 Mencacci, Samuel A., 3,700,386.
 Mencacci, Samuel Alfred, 3,666,177.
 International Materials: *See—*
 Newkirk, Marc S.; and Zulkowski, Peter W., 3,646,924.
 Newkirk, Marc S., 3,682,142.
 International Mfg. Co., Inc.: *See—*
 English, Frank F., 3,649,079.
 International Minerals & Chemical Corporation: *See—*
 Barlow, Jan, Jr.; and Pursell, Herbert P., 3,687,639.
 Batzer, Othmer F., 3,639,578.
 Dancy, William B., 3,656,931.
 Dancy, William B., 3,677,475.
 Forcier, Roy E., 3,636,872.
 Freytag, Arthur H.; and Lira, Emil P., 3,661,549.
 Harnish, Mark E.; and Peters, Merrit A., 3,678,143.
 Harrison, Marvin H., 3,638,791.
 Lang, William J.; and Krajewski, John J., 3,640,826.
 Lang, William J.; and Chelini, Joseph M., 3,644,113.
 Lang, William J.; and Krajewski, John J., 3,645,937.
 Lang, William J., 3,687,846.
 Lang, William J., 3,700,474.
 Schumacher, Joseph S., 3,646,987.
 Stephenson, Earle W.; Newberry, James G.; and Hazzard, Robert C. (said Newberry and said Hazzard assor. to), 3,659,793.
 Ware, James H., 3,632,752.
 International Nickel Company, Inc.: *The: See—*
 Angus, Hamish Carmichael; and Gainsbury, Peter Edward, 3,679,607.

- Ashcroft, Thomas Brian; Betteridge, Walter; and Tracey, Victor Allen, 3,689,320.
 Badia, Frank Arthur; and Ansuini, Frank J., 3,635,702.
 Benjamin, John Stanwood, 3,660,049.
 Benjamin, John Stanwood, 3,696,486.
 Borner, William Gerard, 3,668,081.
 Brookes, Kenneth Joseph Alban, 3,685,727.
 Carriel, Jonathan T.; and Anzenberger, Joseph F., 3,660,446.
 Carriel, Jonathan Turner, 3,689,517.
 Church, Nathan Lewis, 3,702,269.
 Copson, Harry R.; and Dean, Sheldon W., Jr., 3,645,726.
 Curlook, Walter; and Bell, James Alexander Evert, 3,656,934.
 De Paul, Robert Allen, 3,655,366.
 Edson, Aiden P., 3,634,742.
 Eiselstein, Herbert Louis; and Clatworthy, Edward Frederick, 3,663,213.
 Floreen, Stephen, 3,697,258.
 Fontaine, Paul Isidore, 3,690,873.
 Hayden, Howard Wayne, Jr.; Gibson, Robert Cameron; and Brophy, Jere Hall, 3,689,325.
 Head, Michael David; and Thompson, John Robert Michael, 3,688,474.
 Huggins, David Anthony; and Curlook, Walter, 3,672,873.
 Hydrean, Peter Paul, 3,692,514.
 Jordan, David Paul, 3,632,825.
 Larson, Floyd G., Jr.; and De Barbadillo, John J., II, 3,649,251.
 Llewelyn, David Myers, 3,694,186.
 Llewelyn, David Myers, 3,694,187.
 Llewelyn, David Myers, 3,694,188.
 Llewelyn, David Myers, 3,702,761.
 Manilla, Charles E.; Honaker, Harold H.; and Gothard, David O., 3,652,235.
 Manilla, Charles E.; Honaker, Harold H.; and Gothard, David O., 3,678,567.
 Notley, John Michael; and Barr, James, 3,692,642.
 Olson, John Henry; and Vines, Raymond Francis, 3,663,217.
 O'Neill, Charles Edward; and Theubert, Frank Otto, 3,658,475.
 Pargeter, John K.; and Diran, Loris M., 3,647,419.
 Petersen, Walter A., 3,686,027.
 Schneider, Friedrich August, 3,647,544.
 Shaw, Stuart Walter Ker; and Penrice, Peter John, 3,681,059.
 Skomoroski, Robert M., 3,639,219.
 Snape, Edwin; and Schaller, Frank W., 3,655,465.
 Taylor, Brian; and Parry, Philip James, 3,640,777.
 Ward, Laird Gordon Lindsay, 3,651,110.
International Nickel Company, Inc., The: See—
 Badia, Frank Arthur; and Kirby, Gary Neil, 3,676,226.
International Nominees Bahamas Limited, mesne: See—
 Dunham, Tom David; Yeakley, Lester Marvin; and Nagy, Andrew, 3,696,456.
International Paper Company: See—
 Allport, Walter F., 3,674,583.
 Allport, Walter F., 3,674,607.
 Arian, Charles Mourad; Mahler, Hans Hermann; Hayes, Claude Cecil, Jr.; and Tanner, Hal W., Jr., 3,695,219.
 Baxter, Robert O.; Hollis, Clint R.; and Evans, Carlton F., 3,664,238.
 Boggs, Charles L., 3,677,868.
 Boucher, Wilfred M.; Kurlila, John; and Slepp, Alice C., 3,664,335.
 Casavant, George D., 3,671,234.
 Curtis, Arthur E., 3,634,995.
 Galanes, Hector J., 3,670,949.
 Harrison, Allen W., 3,684,086.
 Lahay, Charles Arthur, 3,696,920.
 Leiter, Leigh D.; and Linda, Frank R., 3,655,860.
 Murphy, James A., 3,684,641.
 Murphy, James A.; Lee, Charles A.; and Spravniks, Eduards, 3,707,281.
 Riely, Phyllis E., 3,690,320.
 Roymoulik, Sunanda K., 3,695,995.
 Schwenk, William E., 3,654,842.
 Tuitt, Milton James, 3,701,415.
 Violette, Glenn M.; Paquin, Leon J.; and Lock, James A., 3,700,525.
 Ward, George T., 3,645,842.
International Paper Company, mesne: See—
 Brown, Stirling Robert, 3,672,949.
 Brown, Stirling Robert; and Lee, Charles A., 3,672,952.
 Brown, Stirling Robert, 3,673,026.
 Lee, Charles A.; and Sorrells, Frank D., 3,640,000.
 Lee, Charles A., 3,682,755.
 Lee, Charles Allen; Furbeck, Warren R.; Bartley, Thomas S.; and Beaty, Jeremy, 3,641,627.
 Murphy, James A.; and Brown, Stirling Robert, 3,672,950.
 Murphy, James A.; and Brown, Stirling Robert, 3,673,060.
International Patents & Development Corporation: See—
 Price, Howard; Wallick, Seymour; and Math, Irwin, 3,638,561.
 Woyden, Stanley J., 3,636,863.
International Plasma Corporation: See—
 Beaudry, Harvey James; and Waidtlow, Robert M., 3,648,059.
 Beaudry, Harvey James, 3,648,191.
 Beaudry, Harvey James, 3,678,381.
 Bersin, Richard L., 3,647,676.
 Bersin, Richard L., 3,671,195.
International Playtex Corporation: See—
 Abbate, Ronald A., Jr.; and Fried, Stewart J., 3,658,398.
 Berger, Leonard; Fitzpatrick, William E.; McGinley, James H.; Pfund, Adolf; and Schwartzberg, Ira G., 3,672,122.
 Dostal, Zdenek Denny, 3,695,270.
 Dostal, Zdenek Denny, 3,699,965.
 Hittel, William C.; and Sachs, Charles M., 3,699,971.
International Pollution Controls Corporation: See—
 Cleary, John P.; and Abraham, Schulkin, 3,695,172.
International Products, Inc.: See—
 Whitehead, Jack D., 3,696,801.
International Recreation Products, Inc.: See—
 Hoag, Charles R., 3,665,757.
International Rectifier Corporation: See—
 Clarke, Stephen, 3,643,260.
 Gross, Frederick A., 3,657,925.
 Villax, Ivan, 3,637,463.
 Weinstein, Harold, 3,700,982.
International Research & Development Company Limited: See—
 Mac Nab, Robert Beattie; and Mulhall, Brian Edward, 3,679,920.
International Research & Development Company Limited: See—
 Hughes, Austin, 3,644,766.
 Macnab, Robert Beattie; Ross, John Sterry Hawley; and Wood, Michael Burke, 3,648,082.
 Mc Nab, Ian Roderick, 3,681,633.
 Wilkin, Geoffrey Alan; McNab, Ian Roderick; and Appleton, Anthony Derek, 3,648,088.
International Research & Development Corporation: See—
 McInnes, Alexander G. P., 3,703,223.
International Rubber Industries, Inc.: See—
 Cooper, Donno W., 3,674,067.
 Schrantz, William J., Jr., 3,647,704.
International Salt Company: See—
 De Wittie, H. W.; Kirchstein, John A.; and Atit, Kishore M., 3,647,396.
 Jacoby, Charles H., 3,661,424.
 Jacoby, Charles H., 3,676,078.
 Jacoby, Charles H., 3,702,059.
International Scanatron Systems Corporation: See—
 Clark, John H., 3,651,251.
 Houck, Edward J., 3,670,105.
International Silver Company, The: See—
 Landen, William James; and Lundquist, Gunnar, 3,675,265.
 Landen, William James; and Lundquist, Gunnar F., 3,698,770.
International Siporex Aktiebolaget: See—
 Godin, Stig Olof; and Larsson, Karl Robert, 3,646,643.
International Space Corporation: See—
 Lasater, James A.; and Woodbridge, David D., 3,638,112.
International Standard Corporation: See—
 Beguin, Daniel Edmond, 3,701,160.
International Standard Electric Company: See—
 Greenwood, John Christopher, 3,670,130.
International Standard Electric Corporation: See—
 Abrahamsen, Per Reider, 3,670,104.
 Anderegg, Paul; and Graner, Gerhard, 3,649,419.
 Anderegg, Paul; and Graner, Rolf G., 3,679,522.
 Apitz, Siegfried, 3,637,163.
 Apitz, Siegfried, 3,677,496.
 Ash, Bernard Edwin, 3,653,552.
 Ash, Bernard Edwin, 3,694,565.
 Bamberg, Paul, 3,675,130.
 Basard, Robert; Stoll, Pierre E. C.; and Sedes, Pierre H., 3,665,616.
 Beguin, Daniel Edmond, 3,680,145.
 Beguin, Daniel Edmond, 3,699,583.
 Behlen, Horst, 3,639,827.
 Bellmann, Alfred, 3,671,701.
 Benmussa, Henri; Bui, Ngoc-Sanh; and Troubac, Gerard, 3,639,682.
 Benmussa, Henri; Bui, Ngoc-Sanh; and Troubac, Gerard, 3,662,095.
 Bernutz, Johannes; and Klivar, Erich, 3,636,503.
 Blixt, S. Stefan; and Andersson, Dag Martin, 3,686,662.
 Bonami, Robert Raoul Charles; Lerouge, Claude Paul Henri; and Strube, Didier Charles, 3,653,033.
 Bosc, Henri J., 3,680,096.
 Bosonnet, Marc Edgar Marie; and Henrion, Michel Andre Robert, 3,657,483.
 Bosonnet, Marc Edgar Marie; Henrion, Michel Andre Robert; and Le Corre, Jean-Pierre, 3,689,701.
 Boucher, Raymond Claude Emile; Otto, Jean-Louis Marie; and Taxil, Andre Marc Victorin, 3,634,717.
 Brewster, Arthur Edward, 3,637,934.
 Brewster, Arthur Edward, 3,638,216.
 Brisse, Jacques Daniel Philippe; and Joguet, Jean-Claude, 3,706,992.

- Bruley, Maurice George Marie; and Ferret, Pierre, 3,707,679.
 Burgard, Ernst; and Gross, Jurnjochen, 3,669,279.
 Burian, Theodor; and Krause, Bernhard, 3,681,534.
 Burina, Theodor; and Krause, Bernhard, 3,694,582.
 Colardelle, Joel Serge; Girard, Pierre; and Henri, Claude Paul, 3,689,710.
 Craven, George Frederick, 3,634,788.
 Craven, George Frederick; and Skedd, Richard Finnie, 3,639,862.
 Craven, George Frederick; and Thomas, Raymond Richard, 3,657,668.
 De Jean, Jacques Henri; Leger, Marc Jean Pierre; and Lerouge, Claude Paul Henri, 3,651,467.
 Dietrich, Walter; and Schlupp, Rudolf (said Dietrich assor. to), 3,634,823.
 Dietrich, Walter, 3,639,902.
 Dietrich, Walter, 3,652,991.
 Drake, Cyril Francis; and Amos, Robert Walter James, 3,669,697.
 Dupieux, Jacques Georges; Gadre, Jean-Claude; Le Corre, Jean-Pierre; and Loisel, Jean Francois Pierre Julien, 3,678,206.
 Durteste, Bernard Pierre; Henrion, Michel Andre Robert; and Le Corre, Jean-Pierre (said Durteste and said Henrion assors. to), 3,692,944.
 Durteste, Bernard Pierre Jean; Gadre, Jean-Claude; and Loisel, Jean Francois Pierre Julien, 3,657,698.
 Duval, Georges A.; and Hernandez, Francois, 3,701,853.
 Dymoke-Bradshaw, Leslie E. Basil, 3,692,958.
 Earp, Charles William; and Overbury, Francis Giles, 3,633,204.
 Earp, Charles William; and Overbury, Francis Giles, 3,670,337.
 Earp, Charles William, 3,670,338.
 Eckert, Klaus-Dieter; and Roper, Hans-Joachim, 3,680,117.
 Eckstein, Walter; and Klotz, Roland, 3,656,389.
 Fettweis, Alfred Leo Maria, 3,641,271.
 Fischer, Othmar, 3,643,186.
 Flowers, Thomas Harold, 3,649,771.
 Ford, Robert Brough; and Lloyd, Martin Herbert, 3,656,327.
 Fossum, Lars; and Wangberg, Lennart, 3,696,392.
 Freeman, Albert Leslie, 3,650,026.
 Gaines, Brian R.; and Shemer, Raymond A., 3,641,447.
 Gara, George; and Thorncroft, Roy Charles, 3,657,486.
 Gomel, Lorenzo Martinez, 3,701,084.
 Grundig, Heinz Georg, 3,643,053.
 Guerga, Michel Henri; and Hallier, Bernard Lucien Desire, 3,704,523.
 Hagen, Wolfgang, 3,657,673.
 Haise, Hans Joachim; and Harbort, Hans, 3,638,612.
 Halfmann, Heinrich, 3,651,273.
 Hall, George Thomas William; Van Ijzerloo, Jan Hendrik Sebastiaan; and Althuisen, Nicolaas A., 3,631,753.
 Heirbaut, Edmond Marie; Fabre, Raymond Francis Andrian; Camps, Josephus Henricus Karel; and Mees, Michael Marcel, 3,646,575.
 Herter, Eberhard, 3,673,356.
 Hill, David Roderic, 3,647,978.
 Hirsch, Christian Worm; and Johnsen, John Normann, 3,666,879.
 Hodges, Robert James, 3,636,926.
 Hodges, Robert James, 3,641,585.
 Jochmann, Leonard, 3,683,682.
 King, George; Rayner, John William Frederick; and Powell, Anthony Charles, 3,647,536.
 Klepp, George Francis; and Rowlands, Douglas Henry, 3,634,571.
 Knauer, Hans Ulrich, 3,671,679.
 Knauer, Hans-Ulrich, 3,651,271.
 Knigge, Werner, 3,637,968.
 Kroll, Heinz Ernst Johannes; and Ziegler, Horst Dieter, 3,662,618.
 Lauwers, Andre Ernest Antoon; and Van Brussel, Marcel Arthur, 3,646,276.
 Le Strat, Guy Jean; and Bradanc, Michel, 3,651,269.
 Le Strat, Guy Jean; and Desplanques, Roger, 3,673,333.
 Le Strat, Guy Jean; Lannion, Rene Francois; and Satic, Pierre-Louis Joseph, 3,692,961.
 Lecoanet, Roland S.; and Lepagnol, Jean A. H., 3,692,950.
 Maier, Karl, 3,681,701.
 Maier, Karl, 3,692,945.
 Maillot, Jean Paul, 3,702,969.
 Maillot, Jean-Paul, 3,657,540.
 Maillot, Jean-Paul, 3,665,189.
 Martens, Jean Victor; Natens, Marcel Clement Rene; and De Aguirre, Amanuel, 3,657,631.
 Mason, Peter Arthur, 3,669,370.
 McNelly, Joseph Hood; and Barton, Paul, 3,649,757.
 McNelly, Joseph Hood; and Kitajewski, Ryszard, 3,652,798.
 Micklewright, Percy Leonard; and Scaddan, Ernest Victor, 3,668,763.
 Minks, Werner, 3,707,691.
 Muller, Jean Jacques, 3,688,195.
 Payne, Roy David, 3,678,252.
 Perrault, Jean; and Salle, Adelin E. G., 3,641,494.
 Pinede, Edouard; and De Kam, Abraham, 3,689,705.
 Portugall, Peter, 3,699,293.
 Ralph Frank; and Gingell, Michael John, 3,649,922.
 Ramsay, Melvin Murray; and Barnes, William Geddes, 3,694,659.
 Rees, Frederick Henry, 3,660,605.
 Reeves, Alec Harley; Ramsay, Melvin Murray; Mounter, Anthony Edmund; and Laurence, Simon French, 3,705,307.
 Reines, Jose; and Olson, Walter L., 3,657,485.
 Rieder, Lorenz; and Vester, Klaus, 3,649,928.
 Rolf, Helmut, 3,648,208.
 Russen, Albert, 3,639,861.
 Ruster, Heinz; and Schwanck, Gunter (said Schwanck assor. to), 3,637,949.
 Ruster, Heinz; and Schwanck, Gunter, 3,637,953.
 Schellenberg, Arnold Albert, 3,652,802.
 Schellenberg, Arnold Albert, 3,683,115.
 Schluter, Heinz; and Schonemeyer, Hilmar, 3,660,612.
 Schwanck, Gunter; Ruster, Heinz; Gruger, Wolfgang; and Mantuffel, Ernst, 3,657,487.
 Shaw, Brian Herbert, 3,680,401.
 Simon, Gunther, 3,681,532.
 Simon, Stephane Marcel Clement; and Verhille, Henri Albert Juli, 3,667,001.
 Staiger, Bruno; Schlag, Siegfried; and Hartl, Walter, 3,656,218.
 Sterling, Henley Frank; and Swann, Richard Charles George, 3,655,438.
 Taysom, Patrick Arnold; Lewis, Brian Mark; and Kittel, Clive Francis, 3,646,810.
 Thomas, David M., 3,652,799.
 Thomas, David M., 3,686,441.
 Thomas, David Michael, 3,673,336.
 Tilly, John Frederick; and Hirst, Ian Johnson, 3,637,955.
 Tomica, Alojzy; and Blackwell, John Francis, 3,672,141.
 Toombs, Peter Alan Birrell, 3,681,655.
 Treherne, Thomas Harvey; and Coote, Ewart Peter, 3,645,329.
 Trok, Benjamin, 3,665,290.
 Turriere, Jean Emile, 3,638,882.
 Van Heddegem, Luciaan H. E., 3,685,044.
 Verhoeven, Herman Karel Maria, 3,632,105.
 Verstegen, Willi, 3,697,696.
 Waters, Derek Brian; and Jessop, Anthony, 3,646,517.
 Watson, Christopher Alan; and Maxfield, John Raymond, 3,678,497.
 Weber, Rudolf; and Jahn, Emil, 3,668,960.
 Weinert, Hans, 3,647,580.
 Westmaier, Josef; and Bamberg, Paul, 3,682,006.
 Weston, James Henry, 3,677,106.
 Wiedmann, Heinz, 3,660,599.
 Zakaria, Hisham Mohamed Saadallah, 3,686,593.
 Zwobada, Rene L.; and Regeffe, Andre Jean, 3,638,150.
International Standards Incorporated S.A.: See—
 Sellie, Clifford, 3,650,467.
International Steel Slag Corporation: See—
 Grady, John H., 3,645,708.
International Stretch Products, Inc.: See—
 Sarmiento, Louis, 3,673,820.
International Synthetic Rubber Company Limited, The: See—
 Duck, Edward William; Farmer, John Howard; and Ridgewell, Brian John, 3,644,309.
 Duck, Edward William; Ridgewell, Brian John; and Locke, John Michael, 3,676,409.
 Duck, Edward William; Locke, John Michael; and Amass, Allan John, 3,703,566.
 Jenkins, Derek Keith; and Dixon, Christopher George Piers, 3,641,176.
 Marshall, Philip Ronald; and Ridgewell, Brian John, 3,639,371.
International Systems, Inc.: See—
 Geil, John H., 3,662,400.
International Technidync Corporation: See—
 Mintz, Michael D., 3,695,842.
International Telephone and Telegraph Corporation: See—
 Acevedo, Generoso, 3,681,660.
 Adams, Henry G., 3,701,155.
 Aiani, Richard L.; and Jones, Bill T., Jr., 3,643,124.
 Ake, Nelson E.; and Kling, Harry C., 3,698,976.
 Albanese, Damian F., 3,641,573.
 Anders, Hans Joachim, 3,638,764.
 Anhalt, John W.; and Maston, James W., 3,639,891.
 Anhalt, John W.; and Morrison, Robert M., 3,676,912.
 Anhalt, John William, 3,699,632.
 Anhalt, John W.; Arnold, Bruce K.; and Sugar, Joseph, 3,638,165.
 Asam, Adolf R., 3,693,171.
 Austin, Robert R.; and Creighton, David M., 3,681,206.
 Barr, John E., 3,672,024.
 Batcy, Robert William, 3,684,528.
 Beck, Roland D., 3,656,082.
 Beck, Roland D., 3,663,916.
 Beeli, Johann Battista, 3,676,726.

Beese, Norman C., 3,684,908.
 Belart, Juan, 3,638,426.
 Beutel, Robert C., 3,651,489.
 Blanchenot, John P., 3,706,958.
 Bliley, Ward L., 3,673,549.
 Braddock, Robert C., 3,662,193.
 Brancalone, Salvatore T., 3,678,445.
 Burgess, James Patton; Polkinghorn, Melvin William; and Brzowski, Steve Joseph, 3,668,603.
 Canty, Eugene T., 3,641,438.
 Carlson, Gilbert Fritz, 3,695,105.
 Casebier, Ronald L.; Herrick, Franklin W.; Gray, Kenneth R.; and Johnston, Frederic A., 3,677,818.
 Charlton, Gregory G., 3,653,057.
 Charlton, Gregory G.; Hanratty, Robert J.; and Ohta, Hiram H., 3,670,336.
 Clark, James M., 3,649,758.
 Clark, James M., 3,654,492.
 Clark, James M., 3,662,114.
 Clark, James M., 3,678,200.
 Clark, James M., 3,705,315.
 Concelman, Carl W., 3,694,793.
 Cook, Charles R., Jr., 3,676,922.
 Cooper, Bernard, 3,680,125.
 Cooper, James Joseph, Jr., 3,696,321.
 Cooper, James Joseph, Jr.; and Schurter, Gary Lee, 3,699,497.
 Depenheuer, Otto, 3,649,083.
 Dodington, Sven H., 3,680,119.
 Eberhardt, Edward H., 3,646,265.
 Eberhardt, Edward H., 3,652,790.
 Epstein, George; and Yamanaka, Hideki, 3,663,837.
 Epstein, Marvin A., 3,633,115.
 Erdmann, M. Otto, 3,674,215.
 Felsenheld, Robert A., 3,689,928.
 Fielding, Francis L., 3,670,200.
 Fink, Werner; Schlitz, Erwin; and Werner, Gunther, 3,652,137.
 Fullerton, James, 3,669,005.
 Garcia, Julian; and Carroll, James C., 3,700,817.
 Garcia, Julian A., 3,646,453.
 Gatwood, Robert K., 3,665,222.
 Grant, John M., 3,634,690.
 Grant, John M.; and Stolzy, Albert D., 3,669,550.
 Grant, John M., 3,675,028.
 Gray, Kenneth Russell, 3,694,183.
 Gray, Kenneth Russell; Van Blaricom, Lloyd Eugene; Herrick, Franklin Willard; and Deweyert, Harvey Rudolph, 3,706,545.
 Grayson, Richard Davis, 3,641,968.
 Green, Joseph A., 3,641,445.
 Greene, Robert Raymond; Jacob, Hans Oscar; and Meece, Meredith Wayne, 3,650,639.
 Greenwood, Roger; and Etcheverry, John P., 3,677,298.
 Griffin, Richard H., 3,668,602.
 Guark, Richard J.; and Reicher, Milton D., 3,641,437.
 Gutleber, Frank S., 3,634,765.
 Hall, Henry B.; and Hill, Norman W., 3,638,619.
 Harmuth, Henning Friedolf, 3,668,639.
 Harmuth, Henning Friedolf, 3,678,204.
 Harmuth, Henning Friedolf, 3,705,981.
 Hersberg, David E., 3,648,178.
 Hestad, Alfred M.; and White, Stanley E., 3,660,610.
 Hestad, Alfred M., 3,666,892.
 Hestad, Alfred M.; and Bouknecht, Max A., 3,692,951.
 Himmel, Leon, 3,648,177.
 Hirsch, Robert L., 3,655,508.
 Hirsch, Robert L., 3,664,920.
 Hodgson, William W.; and Ash, David J., 3,666,486.
 Howard, John, 3,689,505.
 Jarger, Harold F., 3,657,661.
 Johnson, George S., 3,676,833.
 Jones, James W., 3,668,702.
 Jovic, Nikola L., 3,692,949.
 Julinot, Helmut D., 3,666,392.
 Julinot, Helmut Dietmar, 3,648,220.
 Kalotay, Paul Zoltan, 3,691,838.
 Kalotay, Paul Zoltan, 3,694,744.
 Kautz, Franz A., 3,631,686.
 Keller, William Fredrick; and Domyan, Frank Francis, 3,656,592.
 Keller, William Fredrick; and Domyan, Frank Francis, 3,675,538.
 Kelly, Joseph Francis; and Prow, Harold James, Jr., 3,702,982.
 Kenworthy, Earl L.; and Hibbs, Russell R., 3,643,261.
 Kim, Sung Chul, 3,696,863.
 Klein, Albert M., 3,643,169.
 Klein, Hans-Christoff; and Byrne, James D., 3,639,009.
 Koenig, Edward W., 3,684,824.
 Lawford, Victor Nicholas, 3,696,659.
 Levine, Arnold M., 3,639,684.
 Lindsay, Wesley N., 3,639,816.
 Lorkart, Hendricus Johannes, 3,704,980.

Lutz, Leland H.; Heileman, Richard C.; Upstone, Harlan R.; Leonard, John M.; and Ottow, Melvin A., 3,639,950.
 Majkrzak, Charles P.; and Polgar, Michael S., 3,704,499.
 Malm, Marvin Forrest, 3,666,997.
 Marbury, Benjamin R.; Hestad, Alfred M.; and Reines, Jose, 3,655,918.
 Mash, Derek Hubert, 3,647,581.
 Mattingly, William R., Jr.; and Goodman, David S., 3,673,548.
 Mc Laughlin, Bernard J.; Petri, George W.; and De Moor, Raymond J., 3,643,203.
 McCloud, George Randall, 3,646,294.
 McLaughlin, Bernard John; and Colvis, Arthur Louis, 3,650,025.
 Meier, Ernst, 3,631,767.
 Miller, Charles Eveleigh; and Schlatter, Gerald Lance, 3,677,067.
 Miller, Charles Eveleigh; and Schlatter, Gerald Lance, 3,701,952.
 Miller, Charles Eveleigh, 3,706,220.
 Mitchell, Reid L.; Muller, Thomas E.; Stevens, Hugh D.; and Tabke, Robert S., 3,670,069.
 Morgan, Thomas E., 3,672,003.
 Morgan, Thomas E., 3,693,230.
 O'Farrell, Francis J., 3,657,718.
 Orthuber, Richard K., 3,634,712.
 Ostwald, Fritz, 3,638,768.
 Ostwald, Fritz, 3,656,633.
 Ostwald, Fritz, 3,657,887.
 Parker, Ernest G.; and Craine, Richard W., 3,691,562.
 Pate, James Ronald, 3,701,896.
 Perrotti, Emmanuel J.; Ranghelli, Joseph C.; and Felsenheld, Robert A., 3,681,769.
 Pitzer, Dorman C.; Braddock, Walter B.; Swann, Richard C. G.; and Pyne, Anthony E., 3,649,888.
 Poylo, Michael C., 3,665,087.
 Poylo, Michael C.; and Staller, Karel J., 3,692,981.
 Quimby, George R.; and Gray, Kenneth R., 3,650,915.
 Rabow, Gerald, 3,643,172.
 Rabow, Gerald, 3,670,252.
 Rabow, Gerald, 3,705,360.
 Ray, William A., 3,662,222.
 Ray, William A., 3,666,173.
 Ray, William A., 3,692,437.
 Reddick, Willis C., 3,707,607.
 Redman, Jerome J., 3,706,493.
 Reilly, Robert A., Jr., 3,633,117.
 Reilly, Robert A., Jr.; Van Etten, James P.; and Heinen, Joseph, 3,654,562.
 Rensin, Ernest L., 3,678,507.
 Ribner, Morris; and Keough, Timothy J., 3,637,948.
 Rue, Charles V.; and Busch, John F., 3,686,800.
 Sanders, Lon L., 3,648,285.
 Sanders, Lon L., 3,680,089.
 Sanders, Lon L., 3,699,571.
 Sapir, Said, 3,662,185.
 Scarlett, Robert M., 3,671,793.
 Schlitz, Erwin; Fink, Werner; and Werner, Gunther, 3,652,136.
 Schlitz, Erwin; and Fink, Werner, 3,656,816.
 Schulz, Egon; Bolega, Ulrich; and Lang, Johann, 3,684,933.
 Smierciak, Edward S.; and Butler, Thomas R., 3,636,244.
 Smith, Harry R., 3,656,170.
 Smith, Harry R., 3,657,652.
 Somerset, Sherman J., 3,701,086.
 Spangler, Paul J.; and Morgan, Thomas E., 3,696,322.
 Spanos, William M.; and Polgar, Michael S., 3,641,578.
 Spanos, William M., 3,673,516.
 Staller, Karel J., 3,659,526.
 Staller, Karel Jan, 3,639,050.
 Staller, Karel Jan; and Lange, Hertwig, 3,684,075.
 Staller, Karel Jan, 3,701,995.
 Staller, Karl Jan, 3,638,510.
 Steinberg, John Charles; and Gray, Kenneth Russell, 3,668,123.
 Stutzman, Guy R.; and Comstock, Allan J., 3,684,910.
 Tabares, Gilbert; and Clifford, Joseph, 3,655,932.
 Tobey, Hubert E.; Masiuk, Alphonse M.; Hood, John W.; and Irvin, Dee L., 3,669,165.
 Tobey, Hubert E.; Moller, George O.; and Twiford, Richard L., 3,695,411.
 Tracy, William K., 3,670,292.
 Tritchler, Joseph J., 3,683,229.
 Upstone, Harlan R.; and Paugh, Edward C., 3,678,441.
 Vaden, James L., 3,678,437.
 Van Etten, James P., 3,685,052.
 Wadding, Richard E., 3,689,704.
 Wallace, Charles H., 3,657,770.
 Waltermire, Clayton L., 3,671,792.
 Weinberg, Murray; and Krause, Irving A., 3,683,279.
 Wittman, John Philip, 3,662,116.
 Wolfgang, Lozure G., 3,705,321.
 Wouda, Sally A., 3,685,252.

International Telephone and Telegraph Corporation, mesne: See—
 Goetzl, Manlio, 3,700,983.
 Russell, Linus E., 3,702,742.
 International Tool Sales, Inc.: See—
 Swisher, James A., 3,655,244.
 International Transportation Service Corporation: See—
 Trigg, Harry E.; and Mitchell, Luther W., 3,707,264.
 International Video Corporation: See—
 Athey, Skipwith W., 3,653,748.
 Dann, Bert H., 3,681,702.
 Dann, Bert H., 3,686,587.
 Internationale Erfinder- und Patentanstalt: See—
 Veloso, Alberto E., 3,689,233.
 Veloso, Alberto E., 3,707,448.
 Internationaler Dienst für Betriebsberatung Marktforschung GmbH: See—
 Nollen, Bernard; and Schuhmann, Hans, 3,631,721.
 Interoceanica, S.A.: See—
 Garcia-Jimenez, Federico; and Flores-Segura, Roberto, 3,645,868.
 Interoro A.G.: See—
 Binns, Thomas David; and Gattiker, David Cyril George, 3,635,803.
 Interpace Corporation: See—
 Bald, Robert E., 3,642,033.
 Danko, Nicholas S., 3,642,413.
 Gebura, Stanley E., 3,635,878.
 Interpace Corporation, mesne: See—
 Graneau, Peter, 3,654,520.
 Interpretation Systems Incorporation: See—
 Dalke, George W., 3,694,743.
 Interrante, Leonard V.: See—
 Browall, Kenneth W.; and Interrante, Leonard V., 3,703,696.
 InterRoyal Corporation: See—
 Benoit, Roland A.; and Curran, John H., 3,649,973.
 Benoit, Roland A., 3,705,282.
 Duprey, Richard H., 3,676,881.
 Interscience Corporation: See—
 Hamma, John C., 3,656,138.
 Intersil Incorporated, mesne: See—
 Moyle, Kenneth J.; and Mann, Richard S., 3,706,840.
 Interstab Limited, mesne: See—
 Oakes, Vincent; and Cross, David F. W., 3,697,463.
 Interstate Container Corporation: See—
 Weisman, Irving, 3,651,928.
 Interstate Foods Corporation: See—
 Husch, Robert L., 3,682,597.
 Intertek Controls, Inc.: See—
 Millis, Hugh L., Jr.; and Hoskinson, Eugene A., 3,676,652.
 Intertel, Inc.: See—
 Holsinger, Jerry L., 3,641,460.
 Holsinger, Jerry L., 3,701,037.
 Intertherm, Inc.: See—
 Barbier, Jean Y., 3,658,206.
 Mc Intosh, Harold A.; Slocum, Gordon K.; and Koskolas, Nick J., 3,652,195.
 Steinman, Gerald W., 3,691,930.
 Intertherm Limited: See—
 Witsey, Noel John Charles; and Clark, James Charles, 3,701,875.
 Intertrade Warenverkehrsgesellschaft Hild & Co.: See—
 Schmidt, Walter, 3,651,753.
 Interverve Etablissement: See—
 Harcuba, Siegfried, 3,659,028.
 Intong AB: See—
 Larsson, Ingemar; and Ohm, Karl-Gustav, 3,656,577.
 Intracolor Corporation, mesne: See—
 Ackermann, Franz; Duennenberger, Max; and Siegrist, Adolf Emil, 3,649,623.
 Intraspac, Inc.: See—
 Alfano, Louis J., 3,688,318.
 Intreprendera "Bucuresti" Pentru Extrazerea Prelucrarea Si Montarea Marmurei Si Pietrei de Constructii: See—
 Gurgui, Constantin; Luca, Vasile; Eckardt, Andrei; and Ciulacu, Paraschiv, 3,705,830.
 Intricate Machine & Engineering Inc.: See—
 Aijala, Sulo A., 3,659,842.
 Inuaki, Akira: See—
 Oshima, Yasuo; Nakazawa, Nobuhiko; Nagasaki, Senkichi; Naito, Takeo; Osada, Yasuaki; Okusa, Naoya; Inuaki, Akira; and Tanaka, Kazuyuki, 3,705,989.
 Inui, Tatsu: See—
 Nakai, Tunes; Ando, Akira; Minehisa, Setuzi; Kaneko, Shunsuke; Siraki, Yosinori; Inui, Tatsu; Nakazima, Hiroyuki; and Tominaga, Naotugu, 3,660,629.
 Inukai, Noriyoshi: See—
 Murakami, Masuo; Kawahara, Shigemi; Inukai, Noriyoshi; Ishida, Sanae; Imai, Kazuo; and Ozasa, Teruaki, 3,687,950.
 Murakami, Masuo; Inukai, Noriyoshi; Koda, Akio; and Nakano, Koji, 3,700,719.
 Invag Aktiengesellschaft: See—
 Hromatka, Otto; and Binder, Dieter, 3,669,959.
 Inventa AG: See—
 Capaul, Marcel; and Sauter, Hermann, 3,689,217.
 Schultze, Hans-Joachim, 3,705,682.
 Wampetich, Matthias J.; and Griehl, Wolfgang, 3,690,926.
 Inventa A.G. für Forschung und Patentverwertung: See—
 Dietzsch, Hans-Joachim; and Dietzsch, Otto, 3,650,870.
 Griehl, Wolfgang; and Herion, Dieter, 3,642,971.
 Griehl, Wolfgang; Hahn, Wolf Dieter; and Plenz, Joachim, 3,644,483.
 Ledergerber, Anton, 3,658,259.
 Ryffel, Kaspar; and Schneller, Heinz, 3,647,758.
 Schnider, Albert; and Hurschler, Werner, 3,654,371.
 Inventa A.G. für Forschung und Patentverwertung Zurich: See—
 Schaaf, Siegfried; and Berther, Clau, 3,637,608.
 Inventio Aktiengesellschaft: See—
 Schibli, Marcel, 3,643,762.
 Inventors and Investors, Inc.: See—
 Lehovec, Kurt; and Seeley, William G., 3,704,376.
 Lehovec, Kurt, 3,704,377.
 Inventors Engineering Inc.: See—
 Vik, Albam M., 3,638,339.
 Vik, Albam M., 3,654,875.
 Investrop AG, mesne: See—
 Waage, Bard M., 3,642,047.
 Inwood, Texas V. Hydrogenation of aromatic hydrocarbons, 3,691,060, 9-12-72, Cl. 208-89,000.
 Ioffe, Benjamin Alexandrovich: See—
 Zheigur, Bruno Domenikovich; Kalnin, Robert Karlovich; Ioffe, Benjamin Alexandrovich; Shevchenko, Alexandr Alexandrovich; Dorofeev, Vyacheslav Semenovich; Mikelson, Artur Eduardovich; and Kirko, Igor Mikhailovich, 3,645,377.
 Ioffe, Benjamin Alexandrovich; and Kalnin, Robert Karlovich. Method for orientation of current-conducting non-magnetic bodies in a magnetic field and a device for carrying same into effect. 3,636,486, 1-18-72, Cl. 335-219.
 Ioffe, Benjamin Alexandrovich; Mikelson, Artur Eduardovich; Makhlin, Aron Judovich; Lapidus, Mikhail Khaimovich; Salmikov, Jury Nikolaevich; Kazhe, Alexandr Zhanovich; and Trushelis, Ivan Avgustovich. Method of orienting electrically conductive bodies, preferably non-magnetic ones, in a magnetic field and apparatus for performing same. 3,651,439, 3-21-72, Cl. 335-219.
 Ioffe, Benjamin Alexandrovich. Apparatus for conveying electrically conductive non-magnetic bodies by a magnetic field while simultaneously orienting the bodies. 3,656,075, 4-11-72, Cl. 335-219.
 Ioffe, Benjamin Alexandrovich; Dorofeev, Vyacheslav Semenovich; and Davydenko, Eduard Prokofievich. Apparatus for the simultaneous contactless separating of individual non-magnetic electrically from a continuous flow and orientation thereof. 3,661,241, 5-9-72, Cl. 198-33.
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 Ioffe, Vladimir Fedorovich; Roitshtein, Garri Shmilevich; Vyatskin, Iosif Yakovlevich; Tsypkin, Vladimir Grigorievich; Alexandrov, Vladimir Nikolaevich; and Semin, Gennady Gavrilovich. Electroerosion machine for machining through holes. 3,659,070, 4-25-72 Cl. 219-69.
 Ioka, Kazuo: See—
 Hosoda, Taisei; Uzuhashi, Hideo; Osiyama, Hiroichi; and Ioka, Kazuo, 3,657,899.
 Iolnai, Julius L.; and Palmer, Patsy B., to Price-Pfister Brass Mfg., Co. Mixing valve. 3,693,663, 9-26-72, Cl. 137-636.100.
 Iomec, Incorporated: See—
 Dryg, Charles J., 3,647,936.
 Weir, Richard D., 3,651,500.
 Ion Physics Corporation: See—
 Gale, Alfred J., 3,653,977.
 Ionescu, Ieodor D.; Uta, Londra Gheorghe F.; and Teodoru, Crizantemelor Aurel D., to Grupul Industrial de Petrochimie. Process for producing high-purity alkali hydroxides. 3,681,214, 8-1-72, Cl. 204-96.000.
 Ionic International Inc.: See—
 Barton, James; and Norton, Patrick H., 3,637,062.
 Ionics, Incorporated: See—
 Hodgdon, Russell B., Jr., 3,657,104.
 Iaconelli, William B., 3,695,444.
 Kirkham, Thomas A.; Arnold, John W.; and Giufreda, Anthony J., 3,669,857.
 Leitz, Frank B., 3,654,125.

- Mc Rae, Wayne A., 3,654,103.
 Parsi, Edgardo J., 3,645,882.
 Parsi, Edgardo J., 3,661,762.
 Paton, Neil E., 3,664,832.
 Swain, Charles Gardner, 3,700,934.
 Ionics Incorporated, *mesne*: *See*—
 Freeman, Donald C., Jr.; and Rogers, Louis J., 3,672,841.
 Iorio, Anthony J.: *See*—
 Kirshenbau, David; and Iorio, Anthony J., 3,648,832.
 Iorns, Martin E.; and Watson, Louis L.: Method of forming reinforced concrete structure. 3,652,755, 3-28-72, Cl. 264-219.
 Iosue, Michael F.; and Sanders, Robert E., to Rogers Corporation. Laminated static charge suppressor and method of making same. 3,652,897, 3-28-72, Cl. 317-2.
 Iosue, Michael F.; Robinson, Ronald F.; Anderson, Paul L.; and Ziobrowski, Edwin P., to Rogers Corporation. Back plane. 3,663,866, 5-16-72, Cl. 317-101.0cm.
 Ioszt, Toma: *See*—
 Bucur, Victor; Filotti, Traian Mircea; Georgescu, Eugenia; Mazarc, Theodora; Ghejan, Ion; Zirna, Ion; Popescu, Elena Lygia; and Ioszt, Toma, 3,657,153.
 Iota Engineering, Inc.: *See*—
 Pulliam, Joseph H.; and McCurnin, Thomas W., 3,701,138.
 Iovine, Carmine P.: *See*—
 Ray-Chaudhuri, Dilip K.; and Iovine, Carmine P., 3,660,360.
 Iowa Manufacturing Company: *See*—
 Jacobson, Wayne B., 3,696,976.
 Iowa Manufacturing Company of Cedar Rapids: *See*—
 Schrimper, Vernon L.; and Fairchild, Louis F., 3,636,832.
 Iowa State University: *See*—
 Zingg, Roy J., 3,644,901.
 Iowa State University Research Foundation: *See*—
 Brass, Ronald W., 3,662,762.
 Pohm, Arthur V.; and Zingg, Roy J., 3,703,713.
 Potter, Allan G., 3,631,542.
 Quick, Graeme R., 3,664,349.
 Quick, Graeme R.; and Buchele, Wesley F., 3,681,901.
 Quick, Graeme R., 3,704,576.
 Iowa State University Research Foundation, Inc.: *See*—
 Brown, Robert G., 3,702,477.
 Handy, Richard L., 3,673,861.
 Robb, David D., 3,646,415.
 Young, James C., 3,668,102.
 Iozza, Emanuele. Ice breaking passive bow. 3,706,295, 12-19-72, Cl. 114-41.000.
 Iozzelli, Adriano. Mixing machine for meats and sausages. 3,647,190, 3-7-72, Cl. 259-104.
 Ipbach, Henry E. Grass cutting apparatus. 3,641,752, 2-15-72, Cl. 56-291.
 Ippen, Erich Peter: *See*—
 Ashkin, Arthur; and Ippen, Erich Peter, 3,674,335.
 Ippen, Erich Peter; Patel, Chandra Kumar Naranbhai; and Stolen, Rogers Hall, to Bell Telephone Laboratories, Incorporated. Broad-band tunable Raman-effect devices in optical fibers. 3,705,992, 12-12-72, Cl. 307-88.300.
 Ippolito, Anthony C.: *See*—
 Arsem, Alvan D.; Schwartz, Harold O.; and Ippolito, Anthony C., 3,706,837.
 Ipri, Alfred Charles, to RCA Corporation. Synchronizing system. 3,688,037, 8-29-72, Cl. 178-69.5tv.
 IPT Corporation: *See*—
 Enderbrock, Edward N.; and Bodine, Charles M., 3,687,546.
 Ira, George O.: *See*—
 Kolster, Edward J.; and Ira, George O., 3,683,484.
 Irako, Koichi: *See*—
 Furukawa, Junji; Saegusa, Takeo; Onishi, Akira; Ishikawa, Takao; Anzai, Shiro; Irako, Koichi; Narumiya, Tsuneaki; and Ishizuka, Yuzo, 3,649,607.
 Onishi, Akira; Anzai, Shiro; Irako, Koichi; Fujio, Ryota; Hayakawa, Yoshihiro; Kojima, Minoru; and Kawamoto, Hiroshi, 3,644,314.
 Onishi, Akira; Irako, Koichi; Hayakawa, Yoshihiro; Shimomura, Takeshi; Iwami, Koichi; and Miyamoto, Shoji, 3,660,365.
 Irakura, Tsutomu; Kasuga, Kazuga; and Segawa, Mitsuru, to Kyorin Seiyaku Kabushiki Kaisha. Benzoylamino substituted 1-benzoyl-piperidines. 3,647,805, 3-7-72, Cl. 260-293.77.
 Irani, Riyad R., to Monsanto Company. Dentifrice compositions containing insoluble salts of amino alkylene phosphonic acids. 3,642,979, 2-15-72, Cl. 424-54.
 Irani, Riyad R.; and Roberts, H. Evan, to Monsanto Chemical Company. Antiseptic compositions containing phenolic bactericides potentiated with phosphonic acid derivatives. 3,671,644, 6-20-72, Cl. 424-346.000.
 Irasek, Eugene H., to National Cash Register Company, The. Random-access information store system. 3,643,241, 2-15-72, Cl. 340-174.1.
 Irby, Donald J.: *See*—
 Plumer, Roy D.; and Irby, Donald J., 3,645,166.
 Ireco Chemicals: *See*—
 Clay, Robert B.; and Doering, William A., 3,649,138.
 Ireland, Glen V. Hydraulic press. 3,676,915, 7-18-72, Cl. 29-251.000.
 Ireland, Henry R.; and Snyder, Paul W., Jr., to Mobil Oil Corporation. Upgrading of crude oil by combination processing. 3,671,419, 6-20-72, Cl. 208-57.000.
 Ireland, Ralph H.; and Lesoravage, Edward C., to United States of America, Navy. Automatic power transfer switch. 3,646,355, 2-29-72, Cl. 307-64.
 Ireland, Robert G.; Manis, Fred L.; and Tegguarden, Ross W., to Stewart-Warner Corporation. Heat exchanger core. 3,703,925, 11-28-72, Cl. 165-151.000.
 Ireland, Robert W.: *See*—
 McCarthy, William J.; and Ireland, Robert W., 3,635,864.
 Irgens, Finn T.: *See*—
 Effhardt, James F.; and Irgens, Finn T., 3,657,867.
 Irgens, Finn T., to Outboard Marine Corporation. Chain saw with gear drive. 3,669,162, 6-13-72, Cl. 143-32.
 Irgens, Finn T., to Outboard Marine Corporation. Two stroke fuel injection engine with scavenged pre-combustion chamber. 3,682,147, 8-8-72, Cl. 123-48.00r.
 Irie, Fujio: *See*—
 Mitani, Masao; Aihara, Katuzo; Kudo, Mitsuhiro; Hara, Nobuhiro; Irie, Fujio; and Yamafuji, Kaoru, 3,697,826.
 Irie, Hiroshi: *See*—
 Terai, Shiro; Sugiyama, Yoshihiko; Suzuki, Toshio; and Irie, Hiroshi, 3,666,520.
 Irie, Hisashi: *See*—
 Ohki, Makoto; Irie, Hisashi; and Okamoto, Kazuo, 3,639,204.
 Irie, Katsumasa. Hood. 3,676,879, 7-18-72, Cl. 2-202.000.
 Irie, Kazuo; and Suzuki, Keiichi, to Fuji Photo Film Co., Ltd. Preparation of inorganic salt crystals. 3,650,757, 3-21-72, Cl. 96-94.
 Irie, Kouhei; Kobayashi, Misao; and Shimamura, Masaru, to Kabushiki Kaisha Meidensha. Explosively actuated ground interrupting device. 3,668,458, 6-6-72, Cl. 313-325.000.
 Irie, Masanori, to Nippon Selfoc Kabushiki Kaisha; a/k/a Nippon Selfoc Co., Ltd. Synthetic resin structures for light conduction and production thereof. 3,639,035, 2-1-72, Cl. 350-96.
 Irie, Namio, to Nissan Motor Company, Limited. Hydraulic control system for automatic transmission. 3,667,323, 6-6-72, Cl. 74-752.00c.
 Irie, Namio; and Ichimura, Hirohisa, to Nissan Motor Company Limited. Control system for an automotive automatic power transmission. 3,695,122, 10-3-72, Cl. 74-864.000.
 Irie, Namio, to Nissan Motor Company, Limited. Hydraulic servo valve. 3,696,839, 10-10-72, Cl. 137-625.610.
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 Irie, Tadasu; and Doi, Kaname, to Sumitomo Electric Industries, Ltd. Hydraulic pressure actuated pressing device for disc brake. 3,667,576, 6-6-72, Cl. 188-345.000.
 Irie, Toshiaki; Sato, Katsuo; and Nanko, Yoshiyuki, to Nippon Electric Company, Limited. Transistor device with plateau emitter and method for making the same. 3,671,340, 6-20-72, Cl. 148-187.000.
 Irie, Toshio: *See*—
 Imai, Mitsuo; Shimanaka, Hiroshi; and Irie, Toshio, 3,649,372.
 Shimanaka, Hiroshi; Irie, Toshio; Tanda, Toshikuni; and Ichi, Tompyuki, 3,666,568.
 Irie, Yoshihiko; and Kimura, Fumio, to Tokico Ltd. Overhead traveling type fuel supplying apparatus. 3,670,930, 6-20-72, Cl. 222-527.000.
 Irie, Yoshihiko; Yamawaki, Shunro; and Ogawa, Yukio, to Tokico Ltd. and Yokico Yuki Ltd. Fuel supplying apparatus. 3,692,212, 9-19-72, Cl. 222-32.000.
 Irie, Yoshio: *See*—
 Imai, Tomio; Irie, Yoshio; and Kanazawa, Yoshinobu, 3,661,594.
 Irie, Yutaka: *See*—
 Tanaka, Toyoki; and Irie, Yutaka, 3,637,305.
 Irik, Gijbert Waldemar: *See*—
 Boersma, Rintje; and Irik, Gijbert Waldemar, 3,665,135.
 Irikura, Tsutomu; and Suzue, Seigo. Process for the preparation of 6-chloro-7-sulfamyl, 3-position substituted 3,4 dihydro-1,2,4-benzothiadiazine 1,1-dioxide. 3,644,348, 2-22-72, Cl. 260-243.
 Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keichi; Shinoda, Hirotaka; and Hasegawa, Yoshinori, to Kyorin Seiyaku Kabushiki Kaisha. Aminoacetonitrile derivatives. 3,679,730, 7-25-72, Cl. 260-465.00d.
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 Irino, Toru: *See*—
 Sasaki, Ryoichi; and Irino, Toru, 3,635,770.
 Irion, Eckart: *See*—
 Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, 3,634,196.

- Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, 3,650,902.
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 Hasegawa, Hiroshi; and Iriuchijima, Makoto, 3,701,810.
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 Barbehenn, Herbert S.; Irizarry, James Michael; and Leszyk, Gerald Martin, 3,682,639.
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 Mori, Hajime; and Irizuki, Mamoru, 3,697,180.
 Irk, Gijbert Waldemar: *See*—
 Boersma, Rintje; and Irk, Gijbert Waldemar, 3,657,504.
 Irland, Max J.: *See*—
 Harvey, James E.; Irland, Max J.; and Lindberg, Victor L., 3,647,285.
 Irmscher, Helmut: *See*—
 Findewirth, Wolfgang; Irmscher, Helmut; Kessler, Gunther; and Leubner, Gunther, 3,651,669.
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 Kramer, Josef; Irmscher, Klaus; Voge, Hans-Otto; and Halpaap, Herbert, 3,689,663.
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 Roeschlaub, Ronald C., 3,683,658.
 Iroquois Promotion: *See*—
 Miller, Murray Edwin, 3,702,511.

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 Stout, John C., 3,656,771.
 Irrigation and Power Equipment Inc., *mesne*: *See*—
 Brown, Perry H.; and Kernodle, Paul C., Jr., 3,648,930.
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 Tobey, Hubert E.; Masiuk, Alphonse M.; Hood, John W.; and Irvin, Dee L., 3,669,165.
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 MacPherson, Ian Alexander; Inman, Eric Richard; Stirling, John Andrew; and Irvine, Alexander McHugh, 3,677,782.
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 Irvine, John Anderson, 3,634,841.
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 Davidson, David Fulton; and Irving, Brian Arthur, 3,705,735.
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 Rowley, Daniel S., 3,647,063.
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 Irwin, John W.: *See*—
 Dickinson, William H.; and Irwin, John W., 3,645,470.
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Nichols, Hal C.; Irwin, Sibley R.; and Collins, Robert K., Jr., 3,680,479.
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Krut, Ronald L.; and Irwin, Thomas J., 3,686,507.
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Carlson, Heinz F.; Isaac, George L.; and Mosely, Graham H., 3,687,345.
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De Villier, Frank; and Isaacs, Brown, 3,659,330.
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Platt, John G.; and Isaacs, Robert O., 3,667,749.
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Riedel, Ernest Paul; and Isaacs, Telma J., 3,639,252.
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Christensen, Carl W.; and Isaacson, Calvin M., 3,649,283.
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Chambers, Robert R.; Isaacson, Henry V.; and Young, David W., 3,640,973.
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Patterson, Roger Lee; and Isachsen, Henning, 3,706,345.
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Dressel, Edwin J.; Petrie, Warren A.; Shaw, Clarence W.; Grinbergs, Janis; Isakson, John E.; and Adams, Martin C., 3,658,222.
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Padovani, Pietro, 3,674,168.
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Sobel, Lucien; Parvi, Ludovic; and Isard, Arsene, 3,707,525.
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Chisholm, Daniel R.; Solomon, Jack M.; and Isbitsky, Bernard, 3,641,022.
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- Ische, Friedrich: *See—*
Spietschka, Ernst; and Ische, Friedrich, 3,647,828.
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- Ischerikova, Galina Antonovna: *See—*
Garnish, Artur Maximovich; Shafransky, Lev Moiseevich; and Ischerikova, Galina Antonovna, 3,679,603.
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Masuda, Mitsuru, 3,705,324.
- Nakamura, Tadashi, 3,641,390.
- Nakamura, Tadashi, 3,673,448.
- Tamura, Mitsuru, 3,633,062.
- Tanaka, Shigeaki; Tamanaka, Yoshimasa; and Nakamura, Tadashi, 3,651,361.
- Tatsuta, Yoshio, 3,656,142.
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Konno, Tsuyoshi; Nakazato, Katsuo; and Ise, Satoshi, 3,670,182.
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Nagamura, Masao; Seya, Hiromichi; Iseki, Takaya; and Suzuki, Mikio, 3,645,700.
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Rossi, Alberto; Walter, Armin; Kessler, Werner; and Iselin, Beat, 3,655,884.
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O'Driscoll, Kenneth F.; and Isen, Allan A., 3,700,761.
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Staffel, Hans; and Isenburg, Dieter, 3,659,047.
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Hennig, Karl-Friedrich; Reinecke, Erich; Merz, Herbert; Werner, Egon; Isernhagen, Fritz; Holthusen, Erwin; and Klatt, Alfred, 3,695,734.
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Solomonov, Nikolai Nikolaevich; Ishanin, Vladimir Pavlovich; and Apalons, Talvalds-Olavs Arnoldovich, 3,668,824.
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Fujisaki, Yoshio; Suzuoki, Akira; and Ishibashi, Eiichi, 3,639,673.
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Blakeslee, Byron Edward; Gajewski, Thaddeus Joseph; and Ishida, Akio, 3,649,474.
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Wada, Koji; and Ishida, Akira, 3,685,726.
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Ohsumi, Yoshio; Matsunaga, Yoshiki; Ishida, Hiroshi; Onoda, Takeshi; Onishi, Masaru; Kasugai, Hiroshi; and Namiki, Tadao, 3,636,034.
- Yoshitake, Norito; Imazeki, Ryoji; and Ishida, Hiroshi, 3,705,418.
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Murakami, Masuo; Kawahara, Shigemi; Inukai, Noriyoshi; Ishida, Sanae; Imai, Kazuo; and Ozasa, Teruaki, 3,687,950.
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Nagamatsu, Kazuo; Yoshino, Masatsugu; Konno, Tsugio; and Ishida, Shinichi, 3,647,743.
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Takagi, Kazumi; and Ishida, Takaharu, 3,644,526.
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Sato, Kunio; Sugihara, Kanji; Wakabayashi, Takashi; and Ishida, Tomio, 3,676,925.
- Ishida, Yoshiyuki: *See—*
Yoshiya, Yoshio; Ishida, Yoshiyuki; and Ito, Masamichi, 3,639,885.
- Ishido, Teruhisa: *See—*
Kai, Tsunetoshi; Hagihara, Takeaki; and Ishido, Teruhisa, 3,677,920.
- Ishidoshiro, Hiroshi: *See—*
Sando, Yoshikazu; Tsuchihashi, Takashi; and Ishidoshiro, Hiroshi, 3,655,328.
- Sando, Yoshikazu; and Ishidoshiro, Hiroshi, 3,665,531.
- Ishifuku Kinzoki Kogyo K.K.; a/k/a Ishifuku Metal Industry Co., Ltd.: *See—*
Inoue, Kiyoshi; and Kaneko, Hideo, 3,689,254.
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- Ishigaki Kiko Co., Ltd.: *See—*
Ishigaki, Eiichi, 3,647,082.
- Ishigaki, Eiichi, 3,677,411.
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- Noda, Ichiro, 3,688,337.
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Ozawa, Minoru; Morito, Tadashi; and Ishigami, Masahiro, 3,686,598.
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- Nogami, Sumitaka; Ishigami, Masaki; and Kurita, Jiro, 3,701,816.
- Ishige, Sadao: *See—*
Kimura, Shiro; Kobayashi, Teruo; Ishige, Sadao; and Kiritani, Masataka, 3,663,571.
- Kimura, Shiro; Kobayashi, Teruo; and Ishige, Sadao, 3,666,525.
- Kimura, Shiro; Kobayashi, Teruo; and Ishige, Sadao, 3,669,710.
- Kimura, Shiro; Kobayashi, Teruo; Ishige, Sadao; and Kiritani, Masataka, 3,669,711.
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Gomi, Shinpei; Takahashi, Masaaki; Ishiguro, Tadashi; Okagami, Akio; Uemoto, Kunihiko; and Kuribayashi, Hiroshi, 3,689,401.
- Ishiguro, Tatsuo, to Nippon Electric Company, Limited. Digital signal reception system. 3,688,039, 8-29-72, Cl. 178-88.000.
- Ishiguro, Toshihiro: *See—*
Morimoto, Shiro; Nomura, Hiroaki; Fugono, Takeshi; Maeda, Kihachiro; and Ishiguro, Toshihiro, 3,660,379.
- Nomura, Hiroaki; Ishiguro, Toshihiro; and Maeda, Kihachiro, 3,658,848.
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Komata, Toranosuke; Ishihara, Katsumi; and Hashimoto, Yasuo, 3,671,226.
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- Ishihara, Masao: *See—*
Sato, Shui; Ishihara, Masao; Sakamoto, Eiichi; Shono, Masayuki; and Sugino, Osakazu, 3,663,230.
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- Ishihara, Nobuji: *See—*
Kigane, Koji; Ishihara, Nobuji; and Kametaka, Atushi, 3,666,542.
- Ishihara Sangyo Co., Ltd.: *See—*
Nishiyama, Ryuzo; Fujikawa, Kanichi; Yokomichi, Isao; and Kimura, Fumio, 3,637,720.
- Ishihara Sangyo Kaisha, Ltd.: *See—*
Higase, Shiro, 3,706,546.
- Ishihara, Satoshi, to Teijin Seiki Co., Ltd. Yarn traversing mechanism. 3,687,383, 8-29-72, Cl. 242-43.000.
- Ishihara, Shigenobu: *See—*
Nakajima, Masaki; Hosogane, Tadayuki; Kobayashi, Shoichi; and Ishihara, Shigenobu, 3,644,579.
- Ishihara, Teruo: *See—*
Yoneda, Naoto; Ishihara, Teruo; Kobayashi, Tetsuji; Kondo, Yasuo; Okumura, Kentaro; Kojima, Michio; and Nose, Takashi, 3,673,195.
- Ishihara, Tetsuo: *See—*
Chujo, Kiyoshi; Ishihara, Tetsuo; and Osawa, Hiroshi, 3,695,922.
- Ishihara, Toshiaki: *See—*
Murata, Tomoji; and Ishihara, Toshiaki, 3,668,376.
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- Ishihara Sangyo Kaisha, Ltd.: *See—*
Yamada, Shigeki; Miyazawa, Kokichi; Naka, Hideaki; and Yoshida, Yoshio, 3,660,078.
- Ishii, Eiji: *See—*
Tachikawa, Takuji; Ohgoshi, Akio; Yoshida, Susumu; Nakayama, Akira; and Ishii, Eiji, 3,638,063.
- Ishii, Hajime; Bannai, Nobuo; and Nishita, Sadao, to Kureha Kagaku Kogyo Kabushiki Kaisha. Processes for suspension-polymerizing vinylidene fluoride and orienting the melt extruded polymer. 3,707,592, 12-26-72, Cl. 264-210.00r.
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Hiratsuka, Michio; Ishii, Jiro; Goto, Tadahiko; and Takeda, Atsuo, 3,681,982.

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- Ishii, Kenjiro: See—
- Umeda, Kaoru; Ishii, Kenjiro; and Endo, Hiroshi, 3,690,532.
- Ishii, Kentaro: See—
- Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,652,345.
- Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,652,346.
- Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,658,605.
- Ishii, Kiyofumi; Toda, Jun; Aoki, Hisashi; and Wakabayashi, Hideo, to Takeda Chemical Industries, Ltd. Sweetening composition. 3,653,923, 4-4-72, Cl. 99-141.
- Ishii, Kiyofumi; Toda, Jun; Aoki, Hisashi; and Kuwada, Yutaka, to Takeda Chemical Industries, Ltd. 2-Benzylthioinosine-5'-phosphate and derivatives thereof. 3,660,378, 5-2-72, Cl. 260-211.5.
- Ishii, Masahito: See—
- Kuwahara, Kenshi; Sonoda, Shigetada; and Ishii, Masahito, 3,705,137.
- Ishii, Masahito, to Mitsui Mining & Smelting Co., Ltd. Photo-sensitive resin composition. 3,684,516, 8-15-72, Cl. 96-115.00r.
- Ishii, Masao: See—
- Susuki, Rinnosuke; Hoshi, Hiroshi; Araki, Shinichi; and Ishii, Masao, 3,677,459.
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- Ishii, Motoki: See—
- Onishi, Akira; Anzai, Shiro; and Ishii, Motoki, 3,639,520.
- Ishii, Shigetaka: See—
- Yokotsuka, Tamotsu; and Ishii, Shigetaka, 3,666,487.
- Ishii, Shogo, to Syntak Company, Ltd. Nail buffer. 3,706,316, 12-19-72, Cl. 132-76.400.
- Ishii, Takami: See—
- Sugiura, Shotaro; and Ishii, Takami, 3,639,347.
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- Ishii, Thomas Koryu, to Mega Power Corporation. Microwave ferrite acceleration sensor. 3,636,752, 1-25-72, Cl. 73-517.
- Ishii, Toshikazu: See—
- Ikai, Masaru; Ishii, Toshikazu; and Higashikuze, Michiaki, 3,664,069.
- Ishii, Toshio: See—
- Takamatsu, Yasuto; Ishii, Toshio; Hayami, Toshio; and Tsubota, Yoshiharu, 3,655,887.
- Ishii, Yoshio; Sakai, Shizuyoshi; Fukuda, Nobuo; Shimada, Shoji; Kurokawa, Kikuo; and Suzuki, Rokuji, to Daido Chemical Industry Co., Ltd. Lubricants for cold rolling and manufacturing the same. 3,654,156, 4-4-72, Cl. 252-49.5.
- Ishijima, Yoshihiro, to Sogawa Machineries & Supplies. Automatic time-unlocked cigaret case. 3,660,998, 5-9-72, Cl. 70-269.000.
- Ishikawa, Hajime: See—
- Sawada, Hiroyuki; Miyawaki, Saburo; and Ishikawa, Hajime, 3,671,359.
- Ishikawa, Hajime; Akedo, Youichi; and Kominami, Toshio. Apparatus for continuously making a hose. 3,658,625, 4-25-72, Cl. 156-429.
- Ishikawa, Haruyoshi: See—
- Torii, Soichi; and Ishikawa, Haruyoshi, 3,695,521.
- Ishikawa, Hidehiko: See—
- Soma, Nobuo; Watatani, Mitsuo; Nakazawa, Junichi; Sato, Yoshio; Kuwabara, Yoshimi; and Ishikawa, Hidehiko, 3,700,682.
- Ishikawa, Hidehiko; Sato, Mikio; and Takada, Syun, to Konishiroku Photo Industry Co., Ltd. Color photograph containing fade-preventing agents. 3,700,455, 10-24-72, Cl. 96-100.000.
- Ishikawa, Hideo: See—
- Sugiura, Shotaro; Ueno, Haruo; Ishikawa, Hideo; Yano, Takefumi; and Shimamura, Tuneso, 3,644,320.
- Ishikawa, Hisako: See—
- Inoue, Michiro; Ishikawa, Hisako; Shimamoto, Takio; and Ishikawa, Masayuki, 3,635,992.
- Ishikawa, Hisashige: See—
- Hotta, Takeshi; and Ishikawa, Hisashige, 3,699,802.
- Ishikawa, Kazuo: See—
- Kitano, Shin; Momose, Yutaka; Ishikawa, Kazuo; and Hida, Takashi, 3,656,600.
- Ishikawa, Kazuo, to Aisin Seiki Kabushiki Kaisha. Hydraulic linking response control vehicles tilt. 3,631,948, 1-4-72, Cl. 192-4.
- Ishikawa, Koichi: See—
- Yoshida, Tsunemi; Ishikawa, Koichi; Ando, Masatoshi; Ueno, Yoshihiko; and Arisawa, Kunio, 3,660,000.
- Ishikawa, Masaoki: See—
- Shinoda, Daizaburo; and Ishikawa, Masaoki, 3,699,408.
- Ishikawa, Masaoki; and Shinoda, Daizaburo, to Nippon Electric Company. Laminated electrode for a semiconductor device. 3,658,489, 4-25-72, Cl. 29-195.
- Ishikawa, Masayuki: See—
- Inoue, Michiro; Ishikawa, Hisako; Shimamoto, Takio; and Ishikawa, Masayuki, 3,635,992.
- Ishikawa, Mitsuo: See—
- Mashimo, Yukio; and Ishikawa, Mitsuo, 3,678,828.
- Nozawa, Yoshikuni; Ishikawa, Mitsuo; and Kikuchi, Junjiro, 3,669,457.
- Ishikawa, Seiti: See—
- Ohniwa, Kazuhiro; and Ishikawa, Seiti, 3,633,460.
- Ishikawa, Shintaro: See—
- Kishikawa, Hiroshi; Ishikawa, Shintaro; and Miyawaki, Kenji, 3,657,163.
- Ishikawa, Takao: See—
- Furukawa, Junji; Saegusa, Takeo; Onishi, Akira; Ishikawa, Takao; Anzai, Shiro; Irako, Koichi; Narumiya, Tsuneaki; and Ishizuka, Yuzo, 3,649,607.
- Ishikawa, Tatsuo: See—
- Matsushita, Shigenori; and Ishikawa, Tatsuo, 3,638,194.
- Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Tetsuhiro, Kusunose; Isumaki, Tatsuichi; and Ota, Masami. Triazine derivatives and compositions thereof. 3,700,662, 10-24-72, Cl. 260-242.
- Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Kusunose, Tetsuhiro; Tsumaki, Tatsuichi; and Ota, Masami, to Asahi Kasei Kogyo Kabushiki Kaisha. Antistatic synthetic resin compositions containing triazine derivatives. 3,705,877, 12-2-72, Cl. 260-75.00m.
- Ishikawa, Teruo; Kawashima, Koji; and Togashi, Tetuo, to Tokyo Shibaura Electric Co., Ltd. High frequency heating apparatus. 3,700,846, 10-24-72, Cl. 219-10.550.
- Ishikawa, Tetsuo: See—
- Inoue, Kiyoshi; Ishikawa, Tetsuo; and Okada, Shingo, 3,703,796.
- Ishikawa, Toshikatsu; and Teranishi, Haruo, to Nippon Carbon Company Limited. Method of producing carbon fibers. 3,705,236, 12-5-72, Cl. 423-447.000.
- Ishikawa, Toshio; and Yamamoto, Yosizi, to Nippondenso Kabushiki Kaisha. Device for preventing continuation of ignition in an automobile gasoline engine. 3,654,481, 4-4-72, Cl. 307-10.
- Ishikawa, Yutaka: See—
- Tomota, Miyaji; Ishikawa, Yutaka; Yamasaki, Hiroo; and Kurita, Yoshio, 3,691,830.
- Yamasaki, Hiroo; Kurita, Yoshio; Ishikawa, Yutaka; and Sawayama, Takehiro, 3,693,438.
- Ishikawajima-Harima Jukogyo Kabushiki Kaisha: See—
- Inaba, Kohsaku; Yoshida, Seisaku; Matsuura, Shoji; and Murakami, Tsukasa, 3,679,005.
- Nakamura, Hajime, 3,632,455.
- Nakamura, Hajime, 3,652,822.
- Ohe, Shuzo, 3,681,203.
- Ohkubo, Hiroyuki; and Saotome, Shigeo, 3,688,541.
- Saiga, Yoshinori; and Mohri, Kazunori, 3,706,343.
- Soh, Dohgi, 3,643,634.
- Tsuji, Shoichi, 3,697,214.
- Ishikura, Jun: See—
- Yoshino, Takachika; Saito, Shigeru; Ishikura, Jun; Sasaki, Yutaka; and Sobukawa, Masukuni, 3,668,147.
- Ishimatsu, Kazuhiko; and Nakahara, Takao, to Nippon Mining Co., Ltd. Apparatus for production of zirconium metal. 3,692,294, 9-19-72, Cl. 266-34.00r.
- Ishimatsu, Kenji; and Tabuchi, Hideho, to Hitachi, Ltd. Photographing method and apparatus utilizing a direct-view type storage tube. 3,653,478, 1-11-72, Cl. 95-12.
- Ishimatsu, Tsuyoshi; Ito, Takashi; Yano, Masamitsu; Takeda, Hajime; and Nagano, Kentaro, to Asahi Glass Co., Ltd. NiCrCo alloys turbine blade with chromium diffusion layer. 3,664,765, 5-23-72, Cl. 416-241.
- Ishimitsu, Akitoshi; Furui, Takeo; Sato, Katsuhiko; and Sawamura, Yasumasa, to Yawata Iron & Steel Co., Ltd. Process for producing a calcium ferrite for making steels. 3,649,248, 3-14-72, Cl. 75-94.
- Ishimori, Akira: See—
- Morii, Eiji; Numasawa, Tadasuke; Iwata, Kouichi; Yamagata, Shoichi; Ishimori, Akira; and Hanai, Hiromi, 3,637,657.
- Ishimoto, Atumi: See—
- Horic, Hajime; Hirano, Tadao; Okuyama, Hideo; and Ishimoto, Atumi, 3,632,419.
- Ishimoto, Sachio; Nakagawa, Koji; Togawa, Haruo; and Chubachi, Sumio, to Teijin Limited. Process for the preparation of adipic acid. 3,649,685, 3-14-72, Cl. 260-533.
- Ishimura, Masabumi: See—
- Iwasawa, Seiji; Ishimura, Masabumi; and Morishita, Kenshichiro, 3,659,431.
- Ishimura, Takeshi: See—

- Nishizawa, Jun-ichi; Sasaki, Ichimon; Ishida, Katsuhiko; Tauchi, Syoji; Ishimura, Takeshi; Seki, Takeo; and Kozuma, Noboru, 3,634,849.
- Ishitani, Akira; and Nukada, Kenkichi, to Toray Industries, Inc. Photosensitive polymeric material and method for the preparation thereof. 3,658,534, 4-25-72, Cl. 96-48.
- Ishitobi, Masami: See—
- Fujita, Hideo; Ishitobi, Masami; Suga, Hiroyoshi; Ishiwari, Keishiro; Yotsui, Yoshikazu; Yamashita, Tadao; Edamitsu, Masayuki; and Moriawaki, Shokichi, 3,701,720.
- Ishiwari, Keishiro: See—
- Fujita, Hideo; Ishitobi, Masami; Suga, Hiroyoshi; Ishiwari, Keishiro; Yotsui, Yoshikazu; Yamashita, Tadao; Edamitsu, Masayuki; and Moriawaki, Shokichi, 3,701,720.
- Ishiwata, Mamoru: See—
- Ohashi, Azusa; and Ishiwata, Mamoru, 3,687,703.
- Ishiwata, Mamoru; and Akio, Huruya, to Fuji Shashin Film Kabushiki Kaisha. Coating method. 3,640,752, 2-8-72, Cl. 117-47.
- Ishiwata, Noboru: See—
- Hirose, Kengo; Ishiwata, Noboru; and Hukawa, Tadaomi, 3,641,394.
- Ishiwata, Samford P. Submerged multistage pump usable as propulsion unit. 3,678,689, 7-25-72, Cl. 60-221.000.
- Ishiyama, Masahiko, to Asahi Glass Co., Ltd. Glass laser materials. 3,677,960, 7-18-72, Cl. 252-301.40f.
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- Ishizaki, Ayaaki: See—
- Ikedo, Shigeo; Ishizaki, Ayaaki; Hirose, Yoshio; and Shiro, Teruo, 3,674,639.
- Ishizaki, Hidenosuke. Socket member of snap fastener. 3,651,547, 3-28-72, Cl. 24-218.
- Ishizaki, Masayuki: See—
- Suda, Seiji; and Ishizaki, Masayuki, 3,636,931.
- Ishizaki, Sumio: See—
- Ozutsu, Minoru; Kawakami, Kazuo; and Ishizaki, Sumio, 3,660,015.
- Ozutsu, Minoru; Kawakami, Kazuo; Ishizaki, Sumio; and Kurosawa, Masatoshi, 3,671,182.
- Ishizawa, Kazutomo; Nagata, Yasunori; Abe, Junnosuke; and Furukawa, Akira, to Kangafuchi Boseki Kabushiki Kaisha. Method for heating pressing plates of continuous flat press. 3,646,992, 3-7-72, Cl. 165-1.
- Ishizawa, Kazutomo; Kubota, Tetsujiro; Miki, Jiro; Matsunaga, Hirot-sugu; and Ohtake, Sadao, to Kangafuchi Boseki Kabushiki Kaisha. Method for automatically treating textile material. 3,653,808, 4-4-72, Cl. 8-158.
- Ishizawa, Masami: See—
- Kinoshita, Ryohet; and Ishizawa, Masami, 3,701,064.
- Ishizuka, Hiroshi. Vacuum separator. 3,663,001, 5-16-72, Cl. 266-34.00v.
- Ishizuka, Hiroshi. Method for preparing zirconium tetrachloride and hafnium tetrachloride. 3,671,186, 6-20-72, Cl. 23-24.00z.
- Ishizuka, Shigeru, to Yokosho Company Ltd. Radio control system for camera. 3,686,672, 8-22-72, Cl. 343-225.000.
- Ishizuka, Yuzo: See—
- Furukawa, Junji; Saegusa, Takeo; Onishi, Akira; Ishikawa, Takao; Anzai, Shiro; Irako, Koichi; Narumiya, Tsuneaki; and Ishizuka, Yuzo, 3,649,607.
- Ishizumi, Kikuo: See—
- Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Yamamoto, Hisao, 3,666,643.
- Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,632,573.
- Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,632,574.
- Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,652,551.
- Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,658,809.
- Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,663,534.
- Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,658,809.
- Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,697,508.
- Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Izumi, Takahiro, 3,702,321.
- Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Izumi, Takahiro, 3,702,323.
- Ishunkin, Veniamin Alexandrovich: See—
- Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Cherkotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexandr; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikailovich; Shevisov, Anatoly Ivanovich; Grinspon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toshev, Alexandr Mikhaivich, 3,687,188.
- Isikawa, Eiichi: See—
- Isogai, Tokio; Isikawa, Eiichi; Yuza, Hisashi; Tahara, Takasi; Miyashita, Takao; and Ikemoto, Norio, 3,654,543.
- Isikov, Sergei Alexandrovich: See—
- Tatiansko, Nikolai Vasilievich; Tsybmal, Alexandr Gavrilovich; Stetsenko, Vladimir Vasilievich; Isikov, Sergei Alexandrovich; Rodenko, Fedor Leontievich; Betcher, Alexandr Samuilovich; Shamrai, Petr Dmitrievich; Dulya, Mikhail Afanasievich; Dudka, Viktor Vailievich; Klimchuk, Ivan Petrovich; and Dolgov, Anatoly Mikhailovich, 3,664,431.
- Iskiyan, James L.; Waddell, James M.; and Way, Donald L., to International Business Machines Corporation. Program selection based upon intrinsic characteristics of an instruction stream. 3,699,526, 10-17-72, Cl. 340-172.500.
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- Isle of Man, The: See—
- Mitchell, Thomas; and Grossman, Frederick, 3,665,773.
- Isley, Ralph E., to Standard Oil Company, The (Ohio). Electrical capacitor having electrically-conductive, impervious connector. 3,656,027, 4-11-72, Cl. 317-230.
- Isley, Sigmund G.: See—
- Brummett, Paul L.; and Isley, Sigmund G., 3,690,478.
- Isley, Walter F., to Teledyne Industries, Inc. Variable compression ratio piston including oil filter means. 3,667,433, 6-6-72, Cl. 123-78.
- Islip, Peter John, to Parke, Davis & Company. Certain 2-imino-5-nitrothiazolines. 3,660,417, 5-2-72, Cl. 260-306.7.
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- Iso, Henry Ervin, to AGA Aktiebolag. Semiconductor cooling system and method. 3,682,237, 8-8-72, Cl. 165-1.000.
- Ismail, Roshdy: See—
- Termin, Eric; and Ismail, Roshdy, 3,641,079.
- Vollkommer, Norbert; Ismail, Roshdy; and Moustafa, Troidorf, 3,691,138.
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Isoda, Sumiro: *See*—
Naito, Takeo; Hirata, Miyoshi; and Isoda, Sumiro, 3,674,833.
Isogai, Mituyuki: *See*—
Hikida, Ryotaro; Awano, Taikichi; Itoh, Junichiro; Danno, Atsushi; Matsui, Masao; Inaba, Mitigi; and Isogai, Mituyuki, 3,683,659.
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Miyamoto, Hiroshi; Isojima, Tsuyoshi; and Minowa, Osamu, 3,701,317.
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Kiyohara, Shinzo; and Shibazaki, Yasuichi, 3,668,085.
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Fujii, Masaru; Sagara, Kazuo; and Isomura, Shuichi, 3,665,276.
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Suzuki, Saburo; Isono, Kiyoshi; and Nagatsu, Junsaku, 3,703,506.
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Isotopes, Inc.: *See*—
Bjarngard, Bengt; and Webb, Geoffrey A. M., 3,657,535.
Strazza, Neal P., 3,652,745.
Isotopes, Inc., *mesne*: *See*—
Baude, John, 3,697,325.
Isoya, Toshiro: *See*—
Seko, Maomi; Ogawa, Shinsaku; Komori, Ryozo; Asuma, Masaro; Isoya, Toshiro; and Sakai, Takamasa, 3,674,653.
Seko, Maomi; Yomiyama, Akira; Ogawa, Shinsaku; Miyake, Tetsuya; Isoya, Toshiro; and Nakagawa, Koji, 3,682,793.
Israel Aircraft Industries, Ltd.: *See*—
Even-Tov, Ori; and Dagan, Pinchas, 3,634,638.
Israel Atomic Energy Commission, The State of: *See*—
Aladjem, Abraham, 3,675,021.
Raviv, Samuel; Rabinovitz, Elsa; and Malkieli, Shimon, 3,635,805.
Israel, Henry M., to Raytheon Company. Resonant charging circuit. 3,675,116, 7-4-72, Cl. 323-17.000.
Israel, Michael G.: *See*—
Perrino, Albert C.; and Israel, Michael G., 3,644,488.
Perrino, Albert C.; and Israel, Michael G., 3,676,406.
Perrino, Albert C.; and Israel, Michael G., 3,687,902.
Israel Mining Industries-Institute for Research and Development: *See*—
Waterman, Jacques Abraham; Shaham, Ilan; and Shorr, Leonard M., 3,674,756.
Israel Ministry of Defence, The State of: *See*—
Popper, Jakhin Boaz, 3,653,325.
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Issa, Manuel: *See*—
Dempsey, George A., Jr.; Koenig, Martin F.; and Issa, Manuel, 3,639,676.
Isserstedt, Goedon S. Security control device. 3,654,522, 4-4-72, Cl. 317-134.
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Yonemitsu, Eiichi; Isshika, Tomiya; Suzuki, Tsuyoshi; and Sanada, Akihiko, 3,691,232.
Isshiki, Tomiya: *See*—
Yonemitsu, Eiichi; Isshiki, Tomiya; Suzuki, Tsuyoshi; and Yashima, Yukio, 3,678,107.
Issler, Jorg: *See*—
Mittag, Hermann; and Issler, Jorg, 3,640,260.
Roth, Helmut; Sohner, Gerhard; Hohne, Gerd; and Issler, Jorg, 3,651,793.
Issler, Jorg; Hohne, Gerd; Strelow, Gert; and Roth, Helmut, to Bosch, Robert, G.m.b.H. Ignition arrangements for internal combustion engines. 3,635,202, 1-18-72, Cl. 123-148.
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Garzia, Aldo, 3,697,563.
Istituto de Angeli S.p.A.: *See*—
Casadio, Silvano; and Pala, Gianfranco, 3,703,528.
Casadio, Silvano; and Pala, Gianfranco, 3,703,534.
Istituto Farmacologico Sero S.p.A.: *See*—
Donini, Pietro, 3,674,865.
Istituto Luso Farmaco d'Italia S.r.l.: *See*—
Manghisi, Elso, 3,642,864.
Istituto Nazionale Chimico Biologico S.r.l.: *See*—
Grippa, Leonida, 3,672,954.
Isumaki, Tatsuiichi: *See*—
Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Tetsuhiro, Kusunose; Isumaki, Tatsuiichi; and Ota, Masami, 3,700,662.
Isumi, Ichizo, to Hakushin Seisakusho Co., Ltd. Gill faller. 3,694,858, 10-3-72, Cl. 19-129.00r.
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Isuzu Motors Limited: *See*—
Yamanouchi, Yuichi, 3,672,338.
ITAB Dogidli KG.: *See*—
Dogigil, Johann, 3,643,070.
Itad Alarm Systems, Inc.: *See*—
Beltrami, Joseph P., 3,656,100.
Itagaki, Kenichi, to Max Corporation. Stapler. 3,640,443, 2-8-72, Cl. 227-120.
Itagaki, Takaharu: *See*—
Okuno, Kenzo; Itagaki, Takaharu; Isogai, Yoshimasa; Yoshida, Kazuo; Fujiki, Konosuke; and Odagawa, Katumi, 3,666,809.
Itakura, Fumitada: *See*—
Saito, Shuzo; Itakura, Fumitada; Nishikawa, Masaaki; and Koike, Tsunehiko, 3,662,115.
Itakura, Jo; Tanaka, Hisao; and Ito, Hiroo, to Toa Gosei Chemical Industry Co., Ltd. Process for preparing 1,5,9-cyclododecatrienes. 3,634,528, 1-11-72, Cl. 260-666.
Ital-Bed Costruzione Letti e Affini S.r.l.: *See*—
Pofferi, Giancarlo, 3,686,805.
Italchemi s.r.l. Istituto Chimico Farmaceutico: *See*—
Intelisano, Gianfranco, 3,637,826.
Italvariatori Perugia S.r.l.: *See*—
Gubbiotti, Lino, 3,656,356.
Itami, Kazuo: *See*—
Yasui, Koichi; Yamamoto, Kazuo; Itami, Kazuo; Fujisawa, Kiyoshi; and Sakai, Toshio, 3,671,279.
Itani, Takashi: *See*—
Sigiya, Hiroshi; Ikeda, Takuo; and Itani, Takashi, 3,647,827.
Itano, Kohci; Nakano, Masashi; and Hashimoto, Mitsuru, to Keuffel & Esser Company. Tribromomethyl sulfonyl pyridazine or phthalazine photoactivators. 3,667,954, 6-6-72, Cl. 96-90.000.
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ITAP S/A-Industria Tecnica de Artefatos Plasticos Rua Prof. Celestino Bourroul: *See*—
Siekierski, Jacques, 3,680,769.
Itasaka, Tokio: *See*—
Kawashimo, Kensuke; Tsukagoshi, Kazuo; and Itasaka, Tokio, 3,707,129.
Itaya, Nobushige: *See*—
Mizutani, Toshio; Itaya, Nobushige; Kitamura, Shigeyoshi; Fujimoto, Keimei; and Okuno, Yositosi, 3,702,851.
Itaya, Nobushige; Kamoshita, Katsuzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Nakai, Shinji; Kameda, Nobuyuki; Fujimoto, Keimei; and Okuno, Yositosi, to Sumitomo Chemical Company, Ltd. Cyclopropanecarboxylic acid esters. 3,666,789, 5-30-72, Cl. 260-468.000.
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Itck Corporation: *See*—
Adachi, Iwao P., 3,669,867.
Adrian, Howard, 3,661,587.
Archambault, Jean-Paul C.; and Holmes, William S., 3,672,899.
Aspden, Ronald, 3,662,499.
Aspden, Ronald, 3,676,960.
Bartlett, Richard F., 3,652,276.
Bauman, Weldon W.; and Collins, Edward, IV, 3,705,358.
Beasley, George A., 3,699,721.
Becker, Andrew D., 3,681,254.
Berman, Elliot; Maher, Robert H.; and Manhardt, John R., 3,634,083.
Berman, Elliot; McLeod, Gerald L.; Pian, Charles H. C.; Stein, Samuel H.; and Pian, Juliette F., 3,658,528.
Bowker, John Kent, 3,671,130.
Bowker, John Kent, 3,696,249.
Buchan, William R., 3,653,742.
Buchan, William R., 3,655,266.
Buchan, William R.; and Aldrich, Ralph Edward, 3,699,347.
Buchan, William R., 3,700,902.
Buchan, William R., 3,704,933.
Case, Laura K., 3,664,836.
Cotter, William L., 3,636,405.
Cronig, Alvin, 3,667,368.
Cronig, Alvin, 3,680,462.
Cunha, Harold; and Koszowski, James A., 3,698,454.
Eastler, William E., Jr., 3,700,437.
Fairbanks, Henry N., 3,698,306.
Forst, Donald J., 3,634,081.
Francis, Ronald, 3,684,507.
Gallet, Jacques Henri; and Gracia, Robert Francis, 3,640,717.
Godfrey, John Montgomery, 3,663,104.
Grain, Clark F., 3,706,560.
Hobrough, Gilbert L., 3,646,336.
Jargiello, Paul Andrew, 3,634,263.
Johnston H. Ronald, 3,677,645.
Johnston, Howard Ronald, 3,636,254.
Johnston, Howard Ronald, 3,655,911.
Keller, Juergen H. H.; and Sprague, Robert Hicks, 3,666,464.
Kruse, Jurgen M.; and Wyman, John E., 3,700,495.
Lerner, Harry, 3,700,449.
McLeod, Gerald L., 3,663,225.
McLeod, Gerald L.; French, Hollis E.; Case, Laura K.; Berman, Elliot; and Casella, Joseph, 3,700,440.
Mowai, Lois E., 3,645,736.
Oliver, Donald S., 3,670,099.
Pfluke, Peter L., 3,635,712.
Philbrick, Richard W.; and Arazi, Efraim R., 3,659,494.
Ravich, Leonard E.; Berman, Elliot; and Ekman, Carl F. W. (said Ravich and said Ekman assor. to), 3,700,447.
Rubenstein, Robert Aaron; and Watson, John Thaxter, 3,638,546.
Sanford, Lloyd C., 3,698,294.
Sanford, Lloyd Clifford, 3,677,150.
Shaw, Robert H.; and Zimmerman, Jerrold, 3,658,631.
Sprague, Robert H., 3,706,559.
Sullivan, John P., Jr., 3,700,451.
Vohl, Paul, 3,677,717.
Vyce, Joseph Richard, 3,658,426.
Wyman, John E., 3,674,489.
Zacchia, Arthur, 3,632,341.
Iten, Clemens A.; and Bickers, Harold B., to Morris, Philip, Incorporated. Multiple blade razor. 3,648,365, 3-14-72, Cl. 30-40.
Iten, Clemens A.; to Morris, Philip, Incorporated. Method of joining two bodies in captive, independently rotatable assembly. 3,673,672, 7-4-72, Cl. 29-443.000.
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Ithaca Gun Company Incorporated: *See*—
Tollinger, James, 3,680,433.
Ithaca Textiles, Inc.: *See*—
Wehrmann, Nicholas, 3,678,515.
Itin, Artur Markovich; Zhed, Jury Mikhailovich; and Nazarov, Vladimir Lvovich. Antifriction thrust bearing of a rotary table. 3,650,583, 3-21-72, Cl. 308-230.
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Itner, Edwin C. Hose holder. 3,645,484, 2-29-72, Cl. 248-80.
Ito, Akihiko: *See*—
Nakase, Yoshiaki; Yoshida, Masaru; Ito, Akihiko; and Okamura, Seizo, 3,652,436.
Nakase, Yoshiaki; Yoshida, Masaru; Ito, Akihiko; Iwai, Tadashi; Hayashi, Koichiro; Okamura, Seizo; and Kojima, Katsumi, 3,703,454.
Ito, Akihiko; Nakase, Yoshiaki; Kojima, Katsumi; Yoshida, Masaru; Iwai, Tadashi; Hayashi, Koichiro; and Okamura, Seizo, to Japan Atomic Energy Research Institute. Polymerization of tetraoxane, in the presence of acetal and a sulfur initiator. 3,677,922, 7-8-72, Cl. 204-159.210.
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Iwao, Norito; Ito, Akira; Maeda, Minoru; Kawaguchi, Tadashi; and Nobukuni, Nakano, 3,653,650.
Ito, Fukuzo; and Sekine, Masaaki, to Tokyo Denki Kagaku Kogyo Kabushiki Kaisha. Endless tape cartridge. 3,645,462, 2-29-72, Cl. 242-55.19.
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Itakura, Jo; Tanaka, Hisao; and Ito, Hiroo, 3,634,528.
Tominaga, Yoshiitsu; Ogasawara, Takahisa; Tatemiichi, Hidemaro; and Ito, Hiroo, 3,632,639.
Ito, Hiroo; and Kimura, Kaoru, to Toa Gosei Chemical Industry Co., Ltd. Process for the preparation of α - β unsaturated monocarboxylic acid esters. 3,639,461, 2-1-72, Cl. 260-486.
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Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; Ito, Humio; and Murakami, Keichi, 3,660,551.
Ito, Ichiji. Index head. 3,633,458, 1-11-72, Cl. 90-56.
Ito, Iko: *See*—
Nakamura, Akihiko; Ito, Iko; and Goto, Mutuo, 3,652,525.
Ito, Isao: *See*—
Miyama, Hajime; Harumiya, Norihiro; Nakao, Mituru; Kimura, Mutsumi; Ito, Isao; and Ohgushi, Katunori, 3,682,800.
Ito, Isao, to Nippondenso Kabushiki Kaisha. Socket mounting structure of ball-and-socket joint used for coupling link members for driving a windshield wiper for vehicles. 3,704,903, 12-5-72, Cl. 287-90.00r.
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Nabeta, Saburo; Yamada, Yuzo; and Ito, Itsuya, 3,706,779.
Ito, Katsuhiko: *See*—
Isobe, Kenjiro; Tsuji, Hitoshi; Kawahata, Shigeo; Mori, Eiji; and Ito, Katsuhiko, 3,657,910.
Mori, Lio; and Ito, Katsuhiko, 3,696,259.
Ito, Katsunori: *See*—
Kato, Takaaki; Kawakubo, Mamoru; Ito, Katsunori; and Wakamatsu, Hisato, 3,665,213.
Kato, Takaaki; Kawakubo, Mamoru; and Ito, Katsunori, 3,673,892.
Wakamatsu, Hisato; Kato, Takaaki; Kawakubo, Mamoru; and Ito, Katsunori, 3,641,844.
Wakamatsu, Hisato; Kato, Takaaki; Kawakubo, Mamoru; and Ito, Katsunori, 3,683,720.
Ito, Kazuo: *See*—
Nakatsuka, Kazuo; Ide, Fumio; Ito, Kazuo; and Yamamoto, Norimasa, 3,644,575.
Sadakata, Kazuo; Sasaki, Minoru; Hirose, Masahiro; Nakamura, Yasuo; Mikida, Yukio; Ito, Kazuo; and Kimura, Kuninobu, 3,639,513.
Ito, Kazuo; and Yotsubayashi, Hiroyuki, to Skegai Tekko Kabushiki Kaisha. Method of and a device for positioning a cutting tool on a tool rest of a machine tool. 3,662,473, 5-16-72, Cl. 33-185.
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Kawamura, Sukeyoshi; Kondo, Kishichiro; Ito, Kenji; Suzuki, Hiroshi; Yasui, Eizo; and Kobayashi, Toshiro, 3,652,635.
- Shimauchi, Shiro; Minemura, Norihiro; Matsui, Takeshi; Ito, Kenji; Shima, Takue; Kawase, Shoji; and Oshima, Masataka, 3,666,403.
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Ikemoto, Masahiko; Ito, Kiyoshi; Kimura, Kazuhiko; and Nakanishi, Teruo, 3,662,036.
- Ito, Kohaku: *See*—
Murata, Eiji; and Ito, Kohaku, 3,675,540.
- Ito, Koji: *See*—
Takahashi, Mitsuo; Ito, Koji; and Kaga, Sadao, 3,694,127.
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Kita, Hideo; and Ito, Kunihiko, 3,637,361.
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Miura, Yotaro; and Ito, Makoto, 3,678,214.
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Hasegawa, Goro; and Ito, Masaharu, 3,674,343.
- Sanada, Noriaki; and Ito, Masaharu, 3,675,562.
- Ito, Masaharu, to Canon Kabushiki Kaisha. Interchangeable lens capable of change over between automatic and manual stop operations. 3,687,047, 8-29-72, Cl. 95-64,00d.
- Ito, Masamichi: *See*—
Yoshiya, Yoshio; Ishida, Yoshiyuki; and Ito, Masamichi, 3,639,885.
- Ito, Masanobu: *See*—
Nakamura, Shizuo; and Ito, Masanobu, 3,652,203.
- Ito, Masatomo; Miyazawa, Yasuo; and Gotoh, Tsuneo, to Showa Denko Kabushiki Kaisha. Sulfur-vulcanizable natural and synthetic rubbery polymers containing xylene diamines as antiozonants. 3,634,316, 1-11-72, Cl. 260-45.9.
- Ito, Michinobu: *See*—
Watanabe, Shigeru; and Ito, Michinobu, 3,673,745.
- Ito, Mikiji; Yamada, Kenji; and Noda, Kazuo, to Nippondenso Kabushiki Kaisha. Exhaust emission purifying device. 3,654,763, 4-11-72, Cl. 60-294.
- Ito, Mitsuru. Blank for forming a garment. 3,675,246, 7-11-72, Cl. 2-115,000.
- Ito, Nobuo: *See*—
Shoda, Shichiro; Ito, Nobuo; and Miki, Toshiro, 3,670,012.
- Ito, Noriki: *See*—
Murakami, Masuo; Kawashima, Yuji; Ito, Noriki; and Yano, Kunichiro, 3,651,063.
- Ito, Osamu: *See*—
Noguchi, Masaaki; Sumiyoshi, Masaharu; Sakakibara, Shigeru; Ito, Osamu; and Kato, Takaaki, 3,667,322.
- Namazawa, Akio; and Ito, Osamu, 3,645,366.
- Sumiyoshi, Masaharu; Sakakibara, Shigeru; Ito, Osamu; and Kato, Takaaki, 3,640,151.
- Sumiyoshi, Masaharu; Ito, Osamu; Wakamatsu, Hisato; Kato, Takaaki; and Kawai, Hisasi, 3,680,410.
- Toyoda, Eiji; Noguchi, Masaaki; and Ito, Osamu, 3,693,479.
- Ito, Osamu, to Nippondenso Kabushiki Kaisha. Slip ratio calculating device. 3,673,400, 6-27-72, Cl. 235-196,000.
- Ito, Riyokichi, to Katsukawa Kogyo Kabushiki Kaisha. Low-deck truck for carrying an article to be treated. 3,670,900, 6-20-72, Cl. 212-14,000.
- Ito, Ryoi; and Kojima, Takeshi, to Kanegafuchi Kagaku Kogyo Kabushiki. 2,3-Dibromo-1,2,4-trichlorobutane. 3,652,690, 3-28-72, Cl. 260-652.
- Ito, Saburo; and Ezaki, Shingo, to New Nippon Electric Company Ltd. Metal halide discharge lamps. 3,634,721, 1-11-72, Cl. 313-225.
- Ito, Shigehiko; and Arai, Hiroshi, to Nippon Denso Kabushiki Kaisha. Safety device for use with automatic automobile window regulator. 3,651,389, 3-21-72, Cl. 318-266.
- Ito, Shigemasa: *See*—
Sakazume, Kaichiro; Ito, Shigemasa; Sato, Shui; Sakamoto, Eiichi; and Oshima, Akio, 3,698,910.
- Ito, Shin: *See*—
Wakamatsu, Hisato; Kawai, Hisasi; Ito, Shin; and Kubo, Seitoku, 3,675,511.
- Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, to Toyota Jidosha Kogyo Kabushiki Kaisha. Shift control system for vehicle automatic transmission. 3,646,835, 3-7-72, Cl. 74-860.
- Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, to Toyota Jidosha Kogyo Kabushiki Kaisha. Automatic shift control system for automatic transmission. 3,650,161, 3-21-72, Cl. 74-866.
- Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, to Toyota Jidosha Kogyo Kabushiki Kaisha. System for controlling the shift point of fluid controlled automatic transmission for vehicles. 3,657,934, 4-25-72, Cl. 74-861.
- Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, to Toyota Jidosha Kogyo Kabushiki Kaisha. Automatic shift control system for an automatic transmission for vehicles. 3,667,325, 6-6-72, Cl. 74-866,000.
- Ito, Shin; and Kubo, Seitoku, to Toyota Jidosha Kogyo Kabushiki Kaisha. Hydraulic control system for automatic transmission. 3,678,787, 7-25-72, Cl. 74-864,000.
- Ito, Shin; and Kubo, Seitoku, Automatic shift control system for automatic transmission. 3,680,411, 8-1-72, Cl. 74-866,000.
- Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, to Toyota Jidosha Kogyo Kabushiki Kaisha. Hydraulic control system for automatic transmission. 3,701,294, 10-31-72, Cl. 74-866,000.
- Ito, Shinji: *See*—
Tsuruta, Masami; Ito, Shinji; and Otsuka, Ichiro, 3,694,522.
- Ito, Shinya: *See*—
Iizuka, Masao; Igari, Norio; and Ito, Shinya, 3,661,904.
- Ito, Shoji: *See*—
Toshimasa, Jinzenji; Ichimura, Kenji; and Ito, Shoji, 3,699,419.
- Ito, Shoji; Fujioka, Kotaro; Okamoto, Mitsuhiro; and Kikuchi, Tetsuya, to Toray Industries, Inc. Multiple yarn package take-up. 3,690,575, 9-12-72, Cl. 242-18,00a.
- Ito, Siro, to Ransburg Electro-Coating Corporation. Nozzle. 3,659,787, 5-2-72, Cl. 239-15.
- Ito, Susumu: *See*—
Tsubouchi, Denji; Ito, Susumu; Toyota, Eisuke; and Wada, Kenji, 3,668,513.
- Ito, Syunichi: *See*—
Hiraga, Hisao; Ito, Syunichi; Inoue, Keitaro; and Hosoya, Hidenaru, 3,632,366.
- Ito, Tadashi: *See*—
Uchiyama, Takashi; Ito, Tadashi; and Matsuda, Mutsuhide, 3,675,547.
- Uchiyama, Takashi; Ito, Tadashi; and Matsuda, Mutsuhide, 3,688,663.
- Ito, Takashi: *See*—
Ishimatsu, Tsuyoshi; Ito, Takashi; Yano, Masamitsu; Takeda, Hajime; and Nagano, Kentaro, 3,664,765.
- Ito, Takayuki: *See*—
Shirota, Hiroharu; Yonemoto, Kunio; Masuda, Tuiyoshi; Ito, Takayuki; and Nagaki, Ryuzo, 3,652,747.
- Ito, Takeshi: *See*—
Kubo, Nobuo; and Ito, Takeshi, 3,679,500.
- Ito, Takuo: *See*—
Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara, Yoshiteru; and Asakura, Kouichi, 3,668,917.
- Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara, Yoshiteru; and Asakura, Kouichi, 3,703,093.
- Ito, Teichiro: *See*—
Nishio, Motohiro; Ito, Teichiro; Koeda, Takemi; and Shibata, Uichi, 3,682,899.
- Ito, Teruyuki, to Toyoda Koki Kabushiki Kaisha. Balancing apparatus for a rotating body. 3,698,263, 10-17-72, Cl. 74-573,000.
- Ito, Tetsuro; Kato, Goshi; and Kimura, Atsuyoshi, to Daido Seiko Kabushiki Kaisha. Free cutting steels. 3,634,074, 1-11-72, Cl. 75-125.
- Ito, Tetsuro; and Hiki, Azuma, to Daido Seiko Kabushiki Kaisha. Carbon steels and alloy steels for cold forging. 3,652,267, 3-28-72, Cl. 75-123.
- Ito, Tomiyasu; Nagata, Koichiro; Ichikawa, Takehiko; and Kato, Tetsuya, to Ajinomoto Co., Inc. Method of preparing an α -amino-lactam. 3,641,003, 2-8-72, Cl. 260-239.3.
- Ito, Toshihiko: *See*—
Inoue, Yutaka; Hotta, Tadao; and Ito, Toshihiko, 3,699,415.
- Ito, Toshio: *See*—
Nomaguchi, Tamotsu; Tabata, Norikazu; and Ito, Toshio, 3,685,950.
- Yamagata, Kiyoshi; Matsuura, Kiyoshi; Ito, Toshio; Miyamoto, Toshio; and Wada, Yuichi, 3,644,860.
- Ito, Yoichi: *See*—
Nakamura, Tutomu; Matsuda, Saburo; and Ito, Yoichi, 3,655,988.

- Ito, Yoshimasa: *See*—
Yoshimura, Susumi; Ito, Yoshimasa; Asakawa, Shirow; and Hasegawa, Katsue, 3,679,944.
- Ito, Yoshio; Katayama, Hajime; Yamaguchi, Masaru; and Nitanda, Hiroshi, to Canon Kabushiki Kaisha. Device for separating recording medium for use in electrophotographic copying machines. 3,684,363, 8-15-72, Cl. 355-3,000.
- Ito, Yoshio; Smiyama, Shinichi; Toyoda, Akinobu; and Minami, Shoichiro, to Japanese Geon Company, Ltd., The. Process for the production of methacrylic acid. 3,686,294, 8-22-72, Cl. 260-530,00n.
- Ito, Yoshio; Katayama, Hajime; and Yamaguchi, Masaru, to Canon Kabushiki Kaisha. Electrophotographic copying machine. 3,689,146, 9-5-72, Cl. 355-8,000.
- Ito, Yoshiyuki; and Aihara, Toru, to Caterpillar Mitsubishi Ltd. Method of remote control of tractors. 3,695,377, 10-3-72, Cl. 180-66,00b.
- Ito, Yukio; Yokouchi, Haruo; and Konno, Kenji, to Fujitsu Limited. Strip-line circulator having movable compensating stub strip overlying central strip-line conductors. 3,651,430, 3-21-72, Cl. 333-1.1.
- Ito, Yutaka; and Hirata, Jun, to Tokyo Broadcasting System, Inc. and Nippon Electric Company, Limited. Video mixing/special effects amplifiers. 3,673,324, 6-27-72, Cl. 178-6,800.
- Itoh, Akira. Cord hangers for hoist. 3,704,350, 11-28-72, Cl. 191-12,00r.
- Itoh, Hiroshi: *See*—
Hori, Kikuo; Yamada, Hiroshi; and Itoh, Hiroshi, 3,695,529.
- Sato, Yoshinari; Itoh, Hiroshi; Sano, Hideki; and Tanaka, Masao, 3,635,046.
- Itoh, Hirotoshi: *See*—
Matsuzawa, Hideo; Itoh, Hirotoshi; and Yoshioka, Teruhiko, 3,647,640.
- Itoh, Junichiro: *See*—
Hikida, Ryotaro; Awano, Taikichi; Itoh, Junichiro; Danno, Atsushi; Matsui, Masao; Inaba, Mitigi; and Isogai, Mituyuki, 3,683,659.
- Itoh, Kazu. Impact acceleration recording device. 3,707,722, 12-26-72, Cl. 346-7,000.
- Itoh, Kunio: *See*—
Wada, Tadashi; and Itoh, Kunio, 3,652,475.
- Wada, Tadashi; and Itoh, Kunio, 3,671,480.
- Wada, Tadashi; Itoh, Kunio; and Kuga, Naoyoshi, 3,677,981.
- Wada, Tadashi; Itoh, Kunio; Imai, Kiyoshi; and Inomata, Hiroshi, 3,699,073.
- Itoh, Masaru: *See*—
Takaoda, Tsuneo; Ohta, Tetsuya; and Itoh, Masaru, 3,691,111.
- Itoh, Mimpai. Cap. 3,651,972, 3-28-72, Cl. 215-41.
- Itoh, Satoshi: *See*—
Ogura, Mitsuo; and Itoh, Satoshi, 3,703,706.
- Itoh, Shigemasa: *See*—
Sakazume, Kaichiro; Sakamoto, Eiichi; Itoh, Shigemasa; Fujimori, Noboru; and Baba, Shigeji, 3,703,377.
- Itoh, Tadayoshi: *See*—
Ayukawa, Yaichi; Naruse, Uhei; Itoh, Tadayoshi; and Miyakawa, Tsuneaki, 3,671,261.
- Itoh, Takashi: *See*—
Sawa, Yoshi; Itoh, Takashi; Kojima, Minoru; and Sotomura, Mikio, 3,639,154.
- Terai, Kiyoshi; Itoh, Takashi; and Sagawa, Ryuichi, 3,658,286.
- Itoh, Teruo: *See*—
Moriki, Juichi; Itoh, Teruo; Shiosaki, Masaharu; Maeda, Yojin; Kuroki, Hisataka; Sumi, Kenshiro; and Shimura, Hidekazu, 3,662,194.
- Itoh, Torazo: *See*—
Ogata, Fumimaro; Naruse, Tsutomu; and Itoh, Torazo, 3,642,565.
- Itoh, Toshio; Miyamoto, Toshio; and Wada, Yuichi, to Mitsubishi Denki Kabushiki Kaisha. Current limiting device. 3,670,282, 6-13-72, Cl. 337-21.
- Itoh, Yohnosuke; Miki, Masataka; Nishiyama, Makoto; Uda, Yuhnosuke; and Terashima, Masaoki, to Nippon Yakin Kogyo Company Limited. Device for handling plates with smooth surface. 3,682,469, 8-8-72, Cl. 271-12,000.
- Itoh, Yokichi; and Hashimoto, Norikazu, to Hitachi, Ltd. Semiconductor surface barrier diode of Schottky type and method of making same. 3,642,526, 2-15-72, Cl. 117-200.
- Itoh, Yokichi; Shirasaka, Nobuhiko; and Tauchi, Shoji, to Kabushiki Kaisha Hitachi Seisakusho. Method of manufacturing semiconductor devices. 3,661,727, 5-9-72, Cl. 204-32,00s.
- Itoh, Yoshio; and Tanaka, Hiroshi, to Canon Kabushiki Kaisha. Electrophotographic apparatus. 3,663,100, 5-16-72, Cl. 355-4.
- Itoh, Yukio: *See*—
Morita, Akiyoshi; and Itoh, Yukio, 3,676,583.
- Itoi, Kazuo: *See*—
Nishida, Takashi; and Itoi, Kazuo, 3,661,883.
- Tanabe, Kenichi; Itoi, Kazuo; and Segawa, Hirozo, 3,651,017.
- Tanomura, Masahisa; and Itoi, Kazuo, 3,664,979.
- Itoaka, Hideo, to Taiyo Kogyo Company Limited. Bonding and assembling process by a magnetic force. 3,697,352, 10-10-72, Cl. 156-272,000.
- Itoki, Nobuo: *See*—
Abe, Kaoru; Matsumoto, Takeji; and Itoki, Nobuo, 3,672,115.
- Itoyama, Hiroshi; and Abe, Hideki, to Matsushita Electric Works, Ltd. Electronic sound alarm clock. 3,681,916, 8-8-72, Cl. 58-39,000.
- Itoyama, Kenji: *See*—
Kadowaki, Takashi; and Itoyama, Kenji, 3,703,568.
- Itskison, Boris Semenovich: *See*—
Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itskison, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorievich, 3,705,793.
- ITT Blackburn Corporation: *See*—
Toedman, John A., 3,644,878.
- ITT Industries, Inc.: *See*—
Anders, Hans Joachim, 3,693,764.
- Belart, Juan; and Seidel, Ulrich, 3,670,122.
- Belart, Juan, 3,683,619.
- Beller, Hans Albert; and Burgdorf, Jochen, 3,658,160.
- Beller, Hans Albert; and Burgdorf, Jochen, 3,661,231.
- Beller, Hans Albert, 3,675,744.
- Depenheuer, Otto, 3,670,300.
- Erdmann, Hans, 3,677,006.
- Erdmann, Hans, 3,693,768.
- Franke, Kurt; and Steffen, Hermann, 3,684,335.
- Gerlach, Albrecht; and Burth, Rolf-Dieter, 3,643,246.
- Hoehn, Wolfgang, 3,706,035.
- Keller, Hans, 3,678,300.
- Keller, Hans, 3,701,052.
- Keller, Hans; and Sauer, Wolfgang, 3,705,362.
- Kreitz, Walter, 3,684,981.
- Kreutter, Erich, 3,701,967.
- Kupfmuller, Karl, 3,677,094.
- Oberthur, Heinrich, 3,682,513.
- Oberthur, Heinrich, 3,682,514.
- Oberthur, Heinrich, 3,702,713.
- Ostwald, Fritz; and Hertell, Siegfried, 3,677,220.
- Ostwald, Fritz; Bender, Alfred; and Nonn, Gerhard, 3,678,954.
- Sandbank, Carl Peter, 3,656,837.
- Schilling, Harald, 3,702,947.
- Ziegler, Helmut, 3,675,308.
- ITT Rayonier Incorporated: *See*—
Howard, John; and McIntosh, Terence D., 3,644,481.
- Mitchell, Reid L.; Murphy, Charles F.; and LaPolla, Edmund M., 3,652,316.
- ITW Limited: *See*—
Fernberg, Paul Carl Roger, 3,653,096.
- ITW-Ateco G.m.b.H.: *See*—
Wibrow, Gunter, 3,706,391.
- Itzler, Sidney: *See*—
Itzler, Sidney; and Towle, Robert G., 3,667,336.
- Itzler, Sidney; and Towle, Robert G., to Itzler, Sidney. Mechanical tuner for string instruments. 3,667,336, 6-6-72, Cl. 84-454,000.
- Jung, Jacques, to Gurtner S.A. Liquefied gas tank distributor valve units. 3,693,652, 9-26-72, Cl. 137-557,000.
- Jungius, Vorman John: *See*—
Alcock, David Gerald; Brown, John Colin; Piccotti, Enzo; and Jungius, Vorman John, 3,702,248.
- Iura, Yukio, to Canon Inc. Apparatus to determine an amount of exposure. 3,683,765, 8-15-72, Cl. 95-10,00c.
- I.V. Pressure Controllers Limited: *See*—
Kirkman, Douglas Frederick, 3,635,249.
- Ivac Corporation: *See*—
Georgi, Heinz W., 3,702,076.
- Ivan, Patrick Crowley. Personal sanitary appliance. 3,683,914, 8-15-72, Cl. 128-285,000.
- Ivan Sorvall Inc.: *See*—
Filz, Charles J., 3,666,171.
- Ivanchenko, Viktor Vasilievich: *See*—
Bodunov, Igor Vasilievich; Modestov, Boris Sergeevich; and Ivanchenko, Viktor Vasilievich, 3,704,076.
- Ivanhoe Research Corporation: *See*—
Minasian, Harry B., 3,669,441.
- Noiles, Douglas G., 3,669,443.
- Rovin, Herman, 3,650,229.
- Rovin, Herman; Cobb, James W.; Opuszenski, Theodore; Willard, Richard H.; Rigat, Raymond, Jr.; and Pellicano, Joseph, 3,670,675.
- Ivanhoe Research Corporation, mesne: *See*—
Hawley, George F.; and Buettner, John H., 3,664,657.
- Ivanov, Alexandr Nikolaevich: *See*—
Petrov, Vitaly Ivanovich; Ivanov, Alexandr Nikolaevich; Olenin, Jury Leonidovich; Eller, Arnold Oskarovich; Butuzov, Anatoly Akimovich; Basin, Abram Moiseevich; Starobinsky, Vladimir Borisovich; Ratner, Efim Rafailovich; and Potapov, Oleg Fedorovich, 3,659,542.
- Ivanov, Anatoly Andreevich: *See*—

- Ioffe, Benjamin Alexandrovich; Kalnin, Robert Karlovich; Dorofeev, Vyacheslav Semenovich; Trushelis, Ivan Augustovich; Zheigur, Bruno Domenikovich; Rizhsky Raion, Salaspils; Ivanov, Anatoly Andreevich; and Preis, Vladimir Viktorovich, 3,661,298.
- Ivanov, Mark Efremovich: *See—*
- Vagin, Alexei Alexeevich; Yablonsky, Stanislav Valerievich; Voloshin, Petr Stepanovich; Sharov, Nikolai Grigorievich; Shborin, Viktor Ivanovich; Novakovsky, Vladimir Efimovich; Kolpakov, Grigory Vasilievich; Ivanov, Mark Efremovich; Lindin, Viktor Mikhailovich; and Lipsky, Daniil Yakovlevich, 3,700,364.
- Ivanov, Valentin Alexandrovich: *See—*
- Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Burtsev, Pavel Semenovich; Yanchevsky, Kazimir Stanislavovich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny oisevich; and Khaidurov, Leonid Konstantinovich, 3,656,810.
- Ivanov, Valery Vasilievich; and Rumyantsev, Valentin Ivanovich. Gun-type device for mechanical assembly work utilizing energy of explosion. 3,645,091, 2-29-72, Cl. 60-26.1.
- Ivanov, Viktor Vasilievich: *See—*
- Britvin, Lev Nikolaevich; Sergeev, Vitaly Andreevich; Spassky, Konstantin Semenovich; Smirnov, Igor Nikolaevich; Scheglov, Gennady Mikhailovich; Shtelmakh, Alexandr Alexandrovich; Prudovsky, Boris Moiseevich; Karakhanian, Vladimir Karpovich; Ivanov, Viktor Vasilievich; and Semenov, Mikhail Ivanovich, 3,659,969.
- Ivanova, Galina Davydovna: *See—*
- Gumenjuk, Boris Andreevich; Peregud, Boris Petrovich; Chervov, Leonid; Granberg, Georgy Ljubimovich; and Ivanova, Galina Davydovna, 3,659,095.
- Ivanovichetov, Vasily; Svetlichny, Boris Nikolaevich; Demidov, Jury Alexeevich; Elin, Nikolai Mikhailovich; Cherepanov, Vladimir Petrovich; Samuilov, Ivan Nikolaevich; and Cheprasov, Ivan Matveevich, to Vsesojuzny Nauchno-Issledovatel'skiy i proektny institut Aljuminievoi magnitvoi i elektrodnoi promyshlennosti. Apparatus for reduction of titanium halides and subsequent vacuum separation of reduction products. 3,684,264, 8-15-72, Cl. 266-9.000.
- Ivanovsky, Georges, to Societe Chimique des Charbonnages. Cross-linkable acetaldehyde co-polymers. 3,661,855, 5-9-72, Cl. 260-67.00.
- Ivanovsky, Jury Dmitrievich: *See—*
- Brukovsky, Igor Pavlovich; Yakovlev, Pavel Borisovich; Gutterman, Kirill Davidovich; Perov, Alexandr Vasilievich; Zhukov, Vladimir Fedorovich; Nekrasova, Larisa Petrovna; and Ivanovsky, Jury Dmitrievich, 3,689,798.
- Ivanowicz, Michael, to Orr Felt Company, The. Papermaking felt. 3,657,068, 4-18-72, Cl. 162-358.
- Ivanto, Osmo Juhani. Method and distributing objects or goods among a number of consecutively placed points of consumption or storage. 3,690,574, 9-12-72, Cl. 241-281.000.
- Ivarsson, Nils Ture, to Goteborgs Bandvaveri AG. Securing element for vehicle safety harnesses. 3,692,361, 9-19-72, Cl. 297-385.000.
- Ivas, Thomas W.: *See—*
- Hansen, Robert B.; Ivas, Thomas W.; and Slavik, William H., 3,668,306.
- Ivchenko, Georgy Semenovich; Berestovoi, Anatoly Mikhailovich; Khanchas, Vladislav Fedorovich; and Nikodimov, Anatoly Pavlovich. Device for unloading bulk material from reservoirs. 3,669,317, 6-13-72, Cl. 222-195.000.
- Ivernel, Alix, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Apparatus for cracking and burning hydrocarbons. 3,649,206, 3-14-72, Cl. 23-259.5.
- Ivers, Richard J.; and McDonough, William H., to Dynamics Research Corporation. Digital resolver. 3,641,565, 2-8-72, Cl. 340-347.
- Iversen, Christian Eduard, to Nordisk Ventilator Co., A/S. Ventilating apparatus. 3,688,681, 9-5-72, Cl. 98-62.000.
- Iversen, Kristian, to Danfoss A/S. Regulating means. 3,704,404, 11-28-72, Cl. 318-290.000.
- Iversen, Nis B.: *See—*
- Jorgensen, Jorgen; Iversen, Nis B.; and Andresen, Jens N., 3,636,287.
- Iversen, Ralph T., to Viking Industries, Inc. Electrical connector. 3,657,682, 4-18-72, Cl. 339-103.
- Iversen, Svend Erik: *See—*
- Knudsen, Erik Stenber; Iversen, Svend Erik; Lund, Svend Aage; and Northeved, Allan, 3,671,858.
- Iverson, Iver H. Fluid pressure engine. 3,695,792, 10-3-72, Cl. 418-176.000.
- Iverson, Keith E. Tension member overload release mechanism. 3,704,633, 12-5-72, Cl. 24-230.001.
- Ives, Andrew Peter, to Lucas, Joseph, (Industries) Limited. Road vehicle electrical system with transducers detecting faults and producing unique outputs operating a receiving and display unit. 3,665,384, 5-23-72, Cl. 340-52.
- Ives, Andrew Peter, to Lucas, Joseph, (Industries) Limited. Electrical systems for road vehicles. 3,683,197, 8-8-72, Cl. 307-10.00r.
- Ives, H. B., Company, The: *See—*
- Coopersmith, Leo; and Woodman, Frank H., Jr., 3,655,228.
- Coopersmith, Leo, 3,656,787.
- Ivester, Joe A. Pipe working tool assembly. 3,631,552, 1-4-72, Cl. 10-89.
- Ivey, Curtis L.; Vance, Alvin M.; and Eisele, Hermann, to Westinghouse Electric Corporation. Slave current control system for a plurality of electric motors coupled to a common load. 3,688,167, 8-29-72, Cl. 318-45.000.
- Ivey, John Saxon; and Frost, Bernard John, to Borg-Warner Limited. Governors. 3,631,872, 1-4-72, Cl. 137-56.
- Ivko, Joseph J. Motor vehicle control panel. 3,637,964, 1-25-72, Cl. 200-86.5.
- Ivy, James R.: *See—*
- Casey, Norris A.; and Ivy, James R., 3,687,318.
- Ivy, Leon H. Method and apparatus for suppressing and substituting signals. 3,659,059, 4-25-72, Cl. 179-100.1.
- IWA-Rechenschieberfabrik F. Riehle KG: *See—*
- Riehle, Harald, 3,697,078.
- Iwaasa, Takashi: *See—*
- Yokotsuka, Tamotsu; Hashimoto, Hikotaka; and Iwaasa, Takashi, 3,674,644.
- Iwabuchi, Osamu: *See—*
- Shimauchi, Shiro; Kitamura, Yuko; Iwabuchi, Osamu; and Matsui, Takeshi, 3,700,399.
- Iwabuchi, Yoshitaka: *See—*
- Kinjo, Hisao; Iwabuchi, Yoshitaka; Takashima, Seiichi; Kato, Takatoshi; and Okano, Keigo, 3,641,278.
- Kinjo, Hisao; Takashima, Seiichi; Kato, Takatoshi; and Iwabuchi, Yoshitaka, 3,646,261.
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- Umeda, Saburo; Kizuka, Tokio; Iwai, Kiyoshi; Tsunoda, Susumu; and Hayashi, Hideaki, 3,648,945.
- Iwai, Tadashi: *See—*
- Ito, Akihiko; Nakase, Yoshiaki; Kojima, Katsumi; Yoshida, Masaru; Iwai, Tadashi; Hayashi, Koichiro; and Okamura, Seizo, 3,677,922.
- Ito, Akihiko; Yoshida, Masaru; Nakase, Yoshiaki; Iwai, Tadashi; Miura-Gun, Kanagawa-Ken; Hayashi, Koichiro; and Okamura, Seizo, 3,684,767.
- Ito, Akihiko; Nakase, Yoshiaki; Yoshida, Masaru; Sakamoto, Masahiro; Kaetsu, Isao; Iwai, Tadashi; Hayashi, Koichiro; and Okamura, Seizo, 3,686,085.
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- Arita, Yukio; Nakao, Yoshiaki; Iwai, Takashi; and Tagaya, Koozoo, 3,633,419.
- Iwai, Toshiharu; and Yamazaki, Kazukiyo, to Nitto Denki Kogyo Kabushiki Kaisha; a/k/a Nitto Electric Industrial Co., Ltd. Composite layer sheet material. 3,666,615, 5-30-72, Cl. 161-185.000.
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- Iwaki, Akio: *See—*
- Yamaguchi, Hiroyoshi; Iwaki, Akio; and Tokura, Hiroshi, 3,690,890.
- Iwaki Co., Ltd.: *See—*
- Sonobe, Kiyomi, 3,698,288.
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- Iwaki, Tsutomu: *See—*
- Fukuda, Masataro; and Iwaki, Tsutomu, 3,666,565.
- Iwaki, Yoshikazu: *See—*
- Hoshino, Yutaka; Iwaki, Yoshikazu; Matsukawa, Koshiro; Nakada, Akira; Sato, Fumio; and Uno, Kazuo, 3,687,913.
- Iwakuma, Takeo: *See—*

- Fujimura, Hajime; Tanaka, Tadasu; Wagatsuma, Mitsuyoshi; Iwakuma, Takeo; and Miyazaki, Michihiko, 3,649,634.
- Iwakura, Hiko: *See—*
- Komeno, Taichiro; and Iwakura, Hiko: 3,673,173.
- Iwakura, Makoto: *See—*
- Shimizu, Tetsuji; and Iwakura, Makoto, 3,651,335.
- Shimizu, Tetsuji; and Iwakura, Makoto, 3,676,734.
- Iwakura, Yoshio; Uno, Keikichi; Kajiyama, Shigeru; Kituda, Yoshihiro; Kusushita, Takao; and Iijima, Kunio, to Matsushita Electric Works, Ltd. Block copolymers prepared by reacting prepolymers containing terminal isocyanate groups with aromatic oligamides. 3,632,536, 1-4-72, Cl. 260-18.
- Iwama, Atsuki: *See—*
- Yoshida, Shoushi; Iwama, Atsuki; Okada, Takashi; and Suda, Tetuo, 3,659,973.
- Yoshida, Shoushi; Iwama, Atsuki; Odaka, Takashi; and Suda, Tetuo, 3,685,929.
- Yoshida, Shoushi; Iwama, Atsuki; Okada, Takashi; and Suda, Tetuo, 3,690,795.
- Iwama, Kiyonori: *See—*
- Tamura, Masahiko; Iwama, Kiyonori; Asahina, Mitsuo; and Okada, Kensuke, 3,646,280.
- Iwama, Masabuni; Inoue, Isaburo; Takei, Yutaka; and Endo, Takaya, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide color photographic emulsion containing yellow-forming coupler. 3,664,841, 5-23-72, Cl. 96-100.000.
- Iwama, Masakuni; Kojima, Tamotsu; Fujiwara, Mitsuo; and Sakamoto, Kenro, to Konishiroku Photo Industry Co., Ltd. Process for forming a photographic image. 3,649,278, 3-14-72, Cl. 96-56.5.
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- Iwama, Seiya: *See—*
- Okamoto, Katsumi; Iwama, Seiya; Ozawa, Sanhiro; and Moriawaki, Tutomu, 3,634,564.
- Iwami, Akira: *See—*
- Tabuchi, Ichiro; Iwami, Akira; Harita, Yasuhiro; and Yamamoto, Toshiaki, 3,669,284.
- Iwami, Akira, to Mitsui Shipbuilding and Engineering Co., Ltd. Container supporting apparatus for container ship. 3,654,887, 4-11-72, Cl. 114-72.
- Iwami, Ichiro; Honda, Toshio; and Fukuura, Yukio, to Bridgestone Tire Company Limited. Process for adhering a polyester fibrous material with a rubber. 3,673,022, 6-27-72, Cl. 156-166.000.
- Iwami, Koichi: *See—*
- Onishi, Akira; Irako, Koichi; Hayakawa, Yoshihiro; Shimomura, Takeshi; Iwami, Koichi; and Miyamoto, Shoji, 3,660,365.
- Iwamoto, Akira: *See—*
- Takenaka, Shigeo; and Iwamoto, Akira, 3,669,949.
- Iwamoto, Mashi: *See—*
- Yamamura, Yuichi; Fujii, Setsuro; Okano, Atsui; Hirata, Miyoshi; Abiko, Yasushi; Inaoka, Masato; Noroi, Reimei; Iwamoto, Mashi; Funabashi, Shoichi; and Kaito, Takeo, 3,699,149.
- Iwamoto, Minoru, to Ricoh Co., Ltd. Device for electrophotocopying machines for detecting whether a usable length of copy paper is left on a roll thereof. 3,675,228, 7-4-72, Cl. 340-259.000.
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- Seko, Maomi; Takahashi, Yasunobu; Iwamoto, Takeaki; and Seno, Shikazo, 3,647,855.
- Iwan, Wilfred D.: *See—*
- George, David J.; and Iwan, Wilfred D., 3,695,767.
- Iwanami, Masaru: *See—*
- Murakami, Masuo; Iwanami, Masaru; Kubo, Kazuo; Sano, Kenji; Kochiya, Masahiro; and Arima, Hideki, 3,665,037.
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- Iwano, Haruhiko: *See—*
- Amano, Hiroyuki; Iwano, Haruhiko; and Shirasu, Kazuo, 3,667,950.
- Yamamoto, Nobuo; Hatano, Tadao; Shimamura, Isao; and Iwano, Haruhiko, 3,695,883.
- Yoneyama, Masakazu; Shimamura, Isao; Iwano, Haruhiko; and Ohi, Reichi, 3,671,247.
- Iwano, Haruhiko; and Shimamura, Isao, to Fuji Photo Film Co., Ltd. Photographic processing for photographing silver halide light-sensitive elements. 3,649,281, 3-14-72, Cl. 96-66.5.
- Iwano, Haruhiko; and Shimamura, Isao, to Fuji Photo Film Co., Ltd. Hardening process for photographic light sensitive elements. 3,677,760, 7-18-72, Cl. 96-50.0pt.
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- Iijima, Yoo; Shimamura, Isao; Kondo, Tokiharu; and Iwano, Kanagawa, 3,687,669.
- Iwao, Norio; Ito, Akira; Maeda, Minoru; Kawaguchi, Tadashi; and Nobukuni, Nakano, to Yawata Iron & Steel Co., Ltd. Method of controlling the exhaust gas flow volume in an oxygen top-blowing converter. 3,653,650, 4-4-72, Cl. 266-35.
- Iwao, Norio; Naito Koichiro; Kawaguchi, Tadashi; Maeda, Minoru; and Norita, Toshihito, to Nippon Steel Corporation. Method for controlling the treatment of exhaust gases in oxygen top-blowing converter. 3,681,052, 8-1-72, Cl. 75-60.000.
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- Kobayashi, Akito; Watanabe, Kiyoshi; Narita, Yoshihiro; Shiota, Eiji; and Iwaoka, Kenji, 3,646,102.
- Iwaoka, Mutsuo; Takegawa, Akio; Inoue, Hiraku; Egami, Katsusuke; Nishikura, Kouiti; Yamashita, Shigeji; and Nagayasu, Tadairo, to Foray Industries, Inc. Method of manufacturing textured yarn having transverse deformities. 3,698,178, 10-17-72, Cl. 57-157.05.
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- Iwasa, Hitoo: *See—*
- Teramoto, Iwao; Iwasa, Hitoo; Miyai, Yukio; and Takeshima, Masumi, 3,675,161.
- Yokozawa, Masami; and Iwasa, Hitoo, 3,698,945.
- Iwasa, Ichiro: *See—*
- OGata, Yuzuru; Arai, Sumio; and Iwasa, Ichiro, 3,682,803.
- Iwasa, Minetaka, to Nippon Electric Company, Ltd. Surface barrier junction diode. 3,646,411, 2-29-72, Cl. 317-235.
- Iwasa, Yoshisuke: *See—*
- Oshima, Keiji; Yamada, Shozo; Sakurai, Fujio; Iwasa, Yoshisuke; Horiuchi, Koichi; Uchida, Unosuke; Nomura, Teruhiko; and Tominaga, Yasushi, 3,699,203.
- Iwasaka, Tatsuo Co., Ltd.: *See—*
- Yuminaka, Takeo; Iwasaka, Tatsuo Co., Ltd.; Matsuzawa, Hidet; Kawatake, Koichi; and Hirasawa, Kotaro, 3,642,099.
- Iwasaki, Hidesuke: *See—*
- Miyake, Akira; Iwasaki, Hidesuke; and Naito, Kenzo, 3,694,548.
- Nakazawa, Koiti; Shibata, Motoo; Higashide, Eiji; Kanzaki, Toshihiko; Yamamoto, Hiroichi; Miyake, Akira; Ueyanagi, Jisaburo; and Iwasaki, Hidesuke, 3,655,879.
- Iwasaki, Hiroshi: *See—*
- Uchida, Naoya; Ohmachi, Yoshiro; Niizeki, Nobukazu; Miyazawa, Shintaro; and Iwasaki, Hiroshi, 3,671,103.
- Iwasaki, Iwao, to University of Minnesota, The Regents of the. Process for recovering nickel from nickel ores. 3,656,935, 4-18-72, Cl. 75-82.
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- Iwasaki, Sadayoshi, to Alps Electric Co., Ltd. Rotary switch having a torsion spring snap mechanism. 3,694,602, 9-26-72, Cl. 200-153.001.
- Iwasaki, Tadahiko: *See—*
- Akatsu, Mitsuharu; Kinoshita, Tomoo; and Iwasaki, Tadahiko, 3,706,003.

Iwasaki, Takao: *See*—
Kadowaki, Takashi; Iwasaki, Takao; Mitsuta, Yutaka; and Shimada, Kenji, 3,691,143.
Kobayashi, Ryueichi; Iwasaki, Takao; Hirano, Junji; and Matsu-mura, Hideki, 3,657,366.
Iwasaki, Tetsuji: *See*—
Ohama, Tsuyoshi; and Iwasaki, Tetsuji, 3,681,118.
Iwasaki Tsushinki Kabushiki Kaisha; a/k/a Iwatsu Electric Co., Ltd.: *See*—
Haga, Ichiro; and Tamada, Saeichi, 3,701,146.
Nakagawa, Toshiya, 3,681,647.
Ozawa, Syuichi; and Tomimura, Noboru, 3,701,056.
Suzuki, Koji, 3,700,917.
Tano, Takeo, 3,654,614.
Uchida, Kozo, 3,667,055.
Uchida, Kozo; and Tsuji, Toshiyuki, 3,671,673.
Uchida, Kozo, 3,676,708.
Iwasawa, Mineo: *See*—
Miyashiro, Shoichi; Shirouzu, Shunji; and Iwasawa, Mineo, 3,659,140.
Iwasawa, Naozumi: *See*—
Kimura, Morio; Watanabe, Tadashi; Murata, Koichiro; and Iwasawa, Naozumi, 3,634,351.
Iwasawa, Seiji; Ishimura, Masahumi; and Morishita, Kenshiro, to Tokyo Shibaura Denki Kabushiki Kaisha; a/k/a Tokyo Shibaura Electric Co., Ltd. Drum shaped vessel assembly. 3,659,431, 5-2-72, Cl. 62-476,000.
Iwasawa, Yoshio: *See*—
Watanabe, Toshio; Tsukamoto, Goro; Hayashi, Kimiaki; Sato, Masanori; and Iwasawa, Yoshio, 3,647,799.
Iwase, Akikazu: *See*—
Hanada, Keiichi; Saito, Kimihiko; and Iwase, Akikazu, 3,703,633.
Iwase, Hideo. Sewing machine for sewing patterns. 3,677,207, 7-18-72, Cl. 112-118,000.
Iwase, Kenji: *See*—
Miyazaki, Toshio; Omura, Etuzou; Katakabe, Kyoku; Makita, Minoru; Iwase, Kenji; Tsutsumiyut, Hideo; Yotsumoto, Takashi; Ikeda, Fumiaki; Takashima, Yoshiro; Sueyoshi, Hiromu; and Maesaka, Tomio, 3,689,620.
Iwashige, Tadahi: *See*—
Iwai, Isei; Kishida, Yukie; and Iwashige, Tadahi, 3,700,688.
Iwashima, Hideo; and Fukao, Satoshi, to Brother Kogyo Kabushiki Kaisha. Keyboard switch assembly. 3,678,424, 7-18-72, Cl. 335-206,000.
Iwashita, Akira; Tsunokawa, Tamio; and Yuyama, Masahiro, to Sumitomo Chemical Company, Ltd. Method for stabilizing acrylamide. 3,699,081, 10-17-72, Cl. 260-561,000.
Iwashita, Hidemaro: *See*—
Seko, Maomi; Yomiyama, Akira; Miyake, Tetsuya; and Iwashita, Hidemaro, 3,673,068.
Suzuki, Isamu; Ichikawa, Kiyoshi; Ohmura, Jyukichi; and Iwashita, Hidemaro, 3,642,703.
Iwata, Akira: *See*—
Kawai, Isamu; Nishikawa, Atsuro; Takagi, Osamu; Iwata, Akira; and Sugiyama, Kohei, 3,657,165.
Iwata, Hiroo: *See*—
Kundo, Kishichiro; Iwata, Hiroo; Yamaguchi, Nario; Shimizu, Sakae; and Tubuko, Kazuo, 3,640,709.
Yamaguchi, Nario; Shimizu, Sakae; Tubuko, Kazuo; Kondo, Kishichiro; and Iwata, Hiroo, 3,707,402.
Iwata, Junki: *See*—
Uozumi, Junzo; and Iwata, Junki, 3,661,129.
Iwata, Koji: *See*—
Machida, Takehiko; Yoshida, Yukio; Iwata, Koji; and Yokoyama, Kenjiro, 3,659,186.
Iwata, Kouichi: *See*—
Morii, Eiji; Numasawa, Tadasuke; Iwata, Kouichi; Yamagata, Shoichi; Ishimori, Akira; and Hanai, Hiromi, 3,637,657.
Iwata, Mitsuo, to Victor Company of Japan, Limited. Automatic operating control for magnetic recording and reproducing apparatus. 3,697,015, 10-10-72, Cl. 242-186,000.
Iwata, Susumu; and Oida, Etsuo, to Kabushiki Kaisha Ricoh. Heat-developable diazotype light-sensitive material. 3,650,750, 3-21-72, Cl. 96-75.
Iwata, Tetuo: *See*—
Kojima, Mikiharu; and Iwata, Tetuo, 3,696,909.
Iwata, Tetuo, to Tokyo Shibaura Denki Kabushiki Kaisha; a/k/a Tokyo Shibaura Electric Co., Ltd. Moving-handrail device in moving stairways and the like. 3,666,075, 5-30-72, Cl. 198-16.
Iwata, Yoshitaka: *See*—
Fukazawa, Yoshiaki; Iwata, Yoshitaka; and Sakurai, Shigeharu, 3,669,797.
Iwatake, Sizuo: *See*—
Mori, Taketoshi; and Iwatake, Sizuo, 3,687,427.
Iwatani & Co., Ltd.: *See*—
Arata, Yoshiaki; and Inoue, Katsunori, 3,650,847.
Arata, Yoshiaki; and Inoue, Katsunori, 3,668,018.
Ishibashi, Wataru; Nakano, Satoru; and Yokotani, Takeo, 3,698,362.
Nakano, Satoru, 3,671,167.

Iwatani, Katsumi: *See*—
Hatanoe, Isao; Kitajima, Kenichi; and Iwatani, Katsumi, 3,641,330.
Konisi, Kenji; Iwatani, Katsumi; and Kakizono, Yukio, 3,657,526.
Iwatat, Yoshinori: *See*—
Higashi, Tadao; Iwatat, Yoshinori; and Ohta, Masae, 3,638,143.
Iwatsu Electric Co., Ltd.: *See*—
Hisabayashi, Satoshi, 3,650,170.
Iijima, Nobuaki; and Takahashi, Tohru, 3,693,108.
Ikeda, Tetsusaburo, 3,683,411.
Kakii, Shunichiro; and Saito, Akira, 3,656,851.
Kishi, Hiroto, 3,691,391.
Kishi, Hiroto, 3,702,403.
Koichi, Kiyoshi, 3,705,296.
Nakaya, Naohisa, 3,648,068.
Nakaya, Naohisa, 3,648,080.
Nakaya, Naohisa, 3,665,324.
Souri, Hiroshi, 3,678,322.
Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,638,187.
Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,671,936.
Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,671,937.
Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,671,941.
Takahashi, Toru, 3,655,996.
Takita, Hajime, 3,651,362.
Takita, Hajime, 3,693,040.
Uchida, Kozo; Nakaya, Naohisa; and Suzuki, Koji, 3,633,066.
Iwatsu, Gakuji: *See*—
Fukui, Hiroshi; Iwatsu, Gakuji; and Kato, Junichi, 3,705,718.
Iwatsuki, Makoto: *See*—
Akamatsu, Akira; Takagi, Yasuo; Iwatsuki, Makoto; Kida, Yoko; and Takeshita, Kazuhisa, 3,695,822.
Iwatuka, Gaku: *See*—
Takaichi, Moriyuki; Hamachi, Naotoshi; Iwatuka, Gaku; and Nakahara, Yoshiteru, 3,645,386.
Iwawaki, Yasutaka: *See*—
Goshima, Takeshi; and Iwawaki, Yasutaka, 3,687,529.
Goshima, Takeshi; Iwawaki, Yasutaka; and Yutaka, Kohtani, 3,702,506.
Iwawaki, Yasutaka; Yoshikawa, Minoru; and Usui, Yukio, to Canon Kabushiki Kaisha. Magnetic recording and reproducing apparatus with time control in cartridge. 3,701,860, 10-31-72, Cl. 179-100,202.
Iwaya, Shoichi, to TDK Electronics Company, Limited. RC composite type circuit component with discharge gap. 3,654,511, 4-4-72, Cl. 315-59.
Iwine Findley Limited: *See*—
Muir, Douglas William Ballantyne, 3,684,961.
I.W.S. Nominee Company Limited: *See*—
Brown, Thomas D.; Rushforth, Michael; Dobinson, Bryan; Wilson, Walter; and Winterbottom, Kenneth, 3,645,781.
Brown, Thomas Desmond, 3,676,057.
Dobinson, Bryan; Hope, Paul; Winterbottom, Kenneth; and Shaw, Trevor, 3,703,352.
Gibson, James Donald Mackay, 3,635,191.
Robinson, Brian; and Fillingham, Stephen Harvey, 3,677,693.
Iyengar, Rama, to Northern Electric Company Limited. Outer conductor for coaxial cable. 3,634,606, 1-11-72, Cl. 174-106.
Iyer, Kishori S.: *See*—
Jones, Peter Hadley; and Iyer, Kishori S., 3,701,770.
Izakson, Khanaan Ilich. Hillside combine harvester. 3,675,404, 7-11-72, Cl. 56-209,000.
Izawa, Shin-ichi; Nakamura, Katsuyuki; and Mizoguchi, Yoshiyuki, to Asahikasei Kogyo Kabushiki Kaisha. Process for the preparation of 2,6-dialkylphenols. 3,670,033, 6-13-72, Cl. 260-621,000.
Izawa, Shinichi: *See*—
Nakanishi, Atsuo; Izawa, Shinichi; and Sato, Mikio, 3,664,977.
Izdatelstvo "Izvestia": *See*—
Dichinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosifovich; Anikanov, Nikolai Ivanovich; Grachev, Leonid Pavlovich; and Frumkin, Mikhail Evseevich, 3,702,186.
Duckhinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosifovich; Anikanov, Nikolai Ivanovich; and Grachev, Leonid Pavlovich, 3,683,586.
Izdebski, Richard J.: *See*—
Warren, Charles W.; and Izdebski, Richard J., 3,650,400.
Izeki, Hazime, to Hisaka Works, Ltd. Plate-type condenser having condensed liquid collecting means. 3,631,923, 1-4-72, Cl. 165-167.
Izen, Manuel: *See*—
Izen, Manuel; and Klotzer, George (said Klotzek assor. to said), 3,649,417.
Izen, Manuel; and Klotzer, George, said Klotzek assor. to said Izen, Manuel. Automatic edge banding apparatus. 3,649,417, 3-14-72, Cl. 156-552.
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Imai, Masaya; Izubayashi, Masuji; Takiyama, Keiichi; Hirai, Mitsuo; and Nikki, Masao, 3,647,904.
Izumi, Isao: *See*—
Okumura, Akihiro; and Izumi, Isao, 3,650,725.
Izumi, John. Interchangeable electrical device. 3,707,697, 12-26-72, Cl. 339-14,000.
Izumi, Kaichi: *See*—
Majima, Kanji; Izumi, Kaichi; and Watanabe, Takao, 3,681,975.
Izumi, Mikio: *See*—
Kato, Tetsuji; Izumi, Mikio; Hayashibara, Yuji; and Suenaga, Kazuo, 3,655,824.
Izumi, Rokuro: *See*—
Nagata, Akio; Ando, Takuji; Izumi, Rokuro; and Sakakibara, Hideo, 3,639,580.
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Hirohashi, Toshiyuki; Izumi, Takahiro; and Yamamoto, Hisao, 3,676,460.
Yamamoto, Hisao; Inaba, Shigeho; Hirohashi, Toshiyuki; Akatsu, Mitsuhiro; Maruyama, Isamu; and Izumi, Takahiro, 3,634,402.
Yamamoto, Hisao; Kitagawa, Sumio; Inaba, Shigeho; Sakai, Shigeru; Hirohashi, Toshiyuki; Maruyama, Isamu; Akatsu, Mitsuhiro; and Izumi, Takahiro, 3,641,002.
Yamamoto, Hisao; Hirohashi, Atsuko; Izumi, Takahiro; and Koshiba, Masao, 3,673,243.
Yamamoto, Hisao; Inaba, Shigeho; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Izumi, Takahiro, 3,702,321.
Yamamoto, Hisao; Inaba, Shigeho; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Izumi, Takahiro, 3,702,323.
Izumi, Takahisa: *See*—
Masuda, Tetsuo; Kurosawa, Kenjiro; Hashimoto, Takeo; and Izumi, Takahisa, 3,696,730.
Izumi, Yasuhiro. Apparatus for manufacture of non-woven fabric. 3,690,990, 9-12-72, Cl. 156-441,000.
Izumi, Zenji: *See*—
Sakai, Hiroshi; Izumi, Zenji; Kitagawa, Hideji; Mamada, Satoshi; and Hoshina, Masakuni, 3,660,527.
Izumitani, Tetsuro: *See*—
Asahara, Yoshiyuki; and Izumitani, Tetsuro, 3,672,921.
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Izumo, Masanori; and Yoshimura, Tatsushiro, to Daikin Kogyo Co., Ltd. Method for preparing polytetrafluoroethylene molding powder. 3,674,762, 7-4-72, Cl. 260-87,500.
Izuo, Ryuji: *See*—
Mizutani, Yukio; Yamane, Reiichi; Sata, Toshikatsu; and Izuo, Ryuji, 3,647,086.
Izura, Yoshiteru: *See*—
Nishiyama, Akira; Fukui, Tooru; Takahashi, Satoshi; Takashima, Yuji; Nakano, Masaaki; Izura, Yoshiteru; and Tanaka, Masaaki, 3,689,155.
Izuta, Tadao, to Nippon Gakki Seizo Kabushiki Kaisha. Stabilizer for archery bow. 3,670,712, 6-20-72, Cl. 124-30,000.
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Izzi, Clement David; and Youngman, Charles Roland, to Nashua Corporation, mesne. Adhesive tape and method of making same. 3,658,574, 4-25-72, Cl. 117-76.
Izzo, Henry J.; and Burton, Charles O., to Gentry Corporation. Process for preparing shelf-stable, free-flowing dehydrated cheese products in granulated or powdered form. 3,694,231, 9-26-72, Cl. 99-115,000.
J. & S., Limited: *See*—
Wylde, Stephen Jack, 3,665,651.
J & T Engineers (Ascot) Limited: *See*—
Helyer, Lawrence Edward, 3,669,354.
Needham, Arthur Michael; and Tindall, David, 3,692,245.
J. L. Manufacturing Co.: *See*—
Foster, John A., 3,692,456.
J. P. Industries, Inc.: *See*—
Thomas, John A., Jr.; and Spangenberg, Gerhard D., 3,659,968.
J-Tec Associates, Incorporated: *See*—
Joy, Robert D., 3,648,647.
Joy, Robert D.; and Colton, Russell F., 3,680,375.
J/B Industries, Inc.: *See*—
May, Eugene Noel, 3,665,132.
J/D Scientific: *See*—
Jensen, David R., 3,706,158.
Jaag, Herbert, to Saba Schwarzwald Apparate-Bau-Anstalt August Schwer Sohne GmbH. Multisection bandpass filter from small signal circuits. 3,701,958, 10-31-72, Cl. 333-70,000.
Jaagus, John J.: *See*—
Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., 3,661,282.
Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., 3,682,296.
Jaatinen, Per Arno: *See*—
Kerttula, Into Isak; and Jaatinen, Per Arno, 3,688,688.
Jablin, Richard; and Leister, Robert G., to Wood, Allan, Steel Company. Drag wipe. 3,672,595, 6-27-72, Cl. 242-75,200.
Jablon, Theodore M.; and Raynor, Russell C., to Dorr-Oliver Incorporated. Continuous sedimentation tank with center-pier supported sediment raking apparatus. 3,704,789, 12-5-72, Cl. 210-531,000.
Jablonek, Harold: *See*—
Foglesong, Rosalina S.; and Jablonek, Harold, 3,632,675.
Jablonski, Edward R., to McGraw Edison Company. Luminaire. 3,654,453, 4-4-72, Cl. 240-25.
Jablonski, Werner L., to Dow Chemical Company. The. Foamable thermoplastic polymer granules and method for making. 3,663,466, 5-16-72, Cl. 260-2.5.
Jabsen, Felix S., to Babcock & Wilcox Company, The. Nuclear fuel rod supporting arrangements. 3,665,586, 5-30-72, Cl. 29-428.
Jabsen, Felix S. Welding nozzle. 3,688,079, 8-29-72, Cl. 219-136,000.
Jacaway, William Arthur, Jr.: *See*—
Armbruster, Frederick Carl; and Jacaway, William Arthur, Jr., 3,640,847.
Jaccard, Andre Robert, to Jaccard Corporation. Meat pressing apparatus. 3,648,600, 3-14-72, Cl. 100-224.
Jaccard, Andre Robert, to Jaccard Corporation. Method of guiding piercing instruments. 3,651,541, 3-28-72, Cl. 17-45.
Jaccard Corporation: *See*—
Jaccard, Andre Robert, 3,648,600.
Jaccard, Andre Robert, 3,651,541.
Jaccodine, Ralph James, to Bell Telephone Laboratories, Incorporated. Method of forming closely spaced conductive layers. 3,693,251, 9-26-72, Cl. 29-625,000.
Jachacz, Edmund A.: *See*—
Barmasse, Alfred C.; and Jachacz, Edmund A., 3,702,486.
Jache, Otto. Lead-acid storage battery having oxidation resistant negative electrode. 3,658,594, 4-25-72, Cl. 136-26.
Jachimek, Thomas P.; and Wrabel, James A., to Seeburg Corporation of Delaware, The. Pulse generator. 3,665,208, 5-23-72, Cl. 307-106.
Jachimek, Thomas P.; and Murrell, Thomas A., to Seeburg Corporation of Delaware, The. Selecting apparatus and method for phonograph. 3,701,970, 10-31-72, Cl. 340-162,000.
Jachimek, Thomas P.; and Mulford, Jack A., to Seeburg Corporation of Delaware, The. Arrangement for translating a train of pulses into logic words. 3,705,423, 12-5-72, Cl. 340-347,000.
Jachimowicz, Ludwik; Reasoner, Edwin W.; and Olszewski, Jerzy A., to General Cable Corporation. Electrical conductor with paper insulation. 3,662,091, 5-9-72, Cl. 174-110.
Jachimowicz, George A.; Minatelli, Mark A.; and Preston, Harold M., to General Mills Chemicals, Inc. Epoxy resin adhesive containing a polymeric fatty-amido amine and monomeric fatty-amido amine mixture as the curing agent. 3,666,695, 5-30-72, Cl. 260-18.
Jachimowicz, Ludwik; and Olszewski, Jerzy A., to General Cable Corporation. Watertight disc coaxial cable. 3,660,589, 5-2-72, Cl. 174-28.
Jacin, Joseph Michael; and Tropello, Sam Duane, 1/2 each to Bell Telephone Laboratories, Incorporated and Western Electric Company, Incorporated. High-pressure packing gland. 3,697,089, 10-10-72, Cl. 277-35,000.
Jack, David: *See*—
Harcourt, David N.; and Jack, David, 3,642,993.
Hartley, David; Lunt, Lawrence H. C.; and Jack, David, 3,644,520.
Hartley, David; Lunt, Lawrence Henry Charles; and Jack, David, 3,701,808.
Jack, David; Hartley, David; and Lunt, Lawrence Henry Charles, to Allen & Hanburys Limited. Phenethylamine derivatives. 3,689,524, 9-5-72, Cl. 260-471,000.
Jack, James; Drake, John; Thompson, David Crompton; and Harris, Frederick John, to Imperial Chemical Industries Limited and Scottish Agricultural Industries Limited. Fertilizer compositions. 3,679,391, 7-25-72, Cl. 71-64,000.
Jack, Ronald H., to Teletype Corporation. Self-testing insertion tool and methods of inserting workpieces. 3,670,388, 6-20-72, Cl. 29-244,000.
Jack, William, Jr. Golf putting practice device. 3,685,833, 8-22-72, Cl. 273-176,000.
Jack-O-Line Corporation: *See*—
O'Brien, John C., 3,678,974.

- Jacke, Stanley E., to Branson Instruments, Incorporated. Sonic dispersing apparatus. 3,645,504, 2-29-72, Cl. 259-2.
- Jacke, Stanley E., to Branson Instruments, Incorporated. Ultrasonic processing apparatus. 3,698,408, 10-17-72, Cl. 134-122.000.
- Jackel, Arthur Paul: *See—*
Elean, Joel E.; and Jackel, Arthur Paul, 3,662,167.
- Jackel, Simon S., to Wyandotte Chemicals Corporation. Bakes goods. 3,669,683, 6-13-72, Cl. 99-91.000.
- Jacks-Evans Manufacturing Company: *See—*
Nielson, Gary E., 3,633,379.
- Jackisch, Philip F., to Ethyl Corporation. Preparation of amino-substituted carboxylic acids. 3,642,887, 2-15-72, Cl. 260-534.
- Jackman, Dennis: *See—*
Hopps, Harvey B.; Jackman, Dennis; and Biel, John H., 3,682,921.
- Hopps, Harvey B.; Jackman, Dennis; and Biel, John H., 3,701,786.
- Jacknow, Burton B.: *See—*
Ciccarelli, Roger N.; and Jacknow, Burton B., 3,672,883.
- Moriconi, Joseph H.; Palermitti, Frank M.; and Jacknow, Burton B., 3,681,107.
- Jacknow, Burton B.; and Moriconi, Joseph H., to Xerox Corporation. Imaging system. 3,653,893, 4-4-72, Cl. 96-1.4.
- Jackovitz, John F.; and Langer, Alois, to Westinghouse Electric Corporation. Preparation of battery plates with iron oxides having a fused coating. 3,650,835, 3-21-72, Cl. 136-25.
- Jacks, Thomas J.: *See—*
Yatsu, Lawrence Y.; Jacks, Thomas J.; and Hensarling, Thomas P., 3,702,857.
- Jacks, Thomas J.; and Yatsu, Lawrence Y., to United States of America, Agriculture. Synthesis of conjugated octadecatrienoic acid using enzymes from tung. 3,661,710, 5-9-72, Cl. 195-30.
- Jacksch, Bruno, to W & M Automation Karl Muller, Firma. Conveyor track for rolling articles with spaced catches. 3,695,408, 10-3-72, Cl. 193-40.000.
- Jackson, Albert Edward; and Russell, Robert Gordon. Apparatus for delivering metered quantities of powdered material towards a point of use. 3,659,751, 5-2-72, Cl. 222-194.
- Jackson, Albert Edward; and Hughes, Phillip Haydn, to Summers, John, & Sons Limited. Method of coating a moving metal strip. 3,661,612, 5-9-72, Cl. 117-22.
- Jackson, Albert Edward, to Summers, John, & Sons Limited. Method of producing a metallic length. 3,681,062, 8-1-72, Cl. 75-208.0cs.
- Jackson, Aldrich L., to Dynasort Corporation. Silverware washing and handling apparatus. 3,682,184, 8-8-72, Cl. 134-63.000.
- Jackson, Aldrich L., to Dynasort Corporation. Silverware washing and handling apparatus. 3,687,264, 8-29-72, Cl. 198-33.0aa.
- Jackson, Andrew D., Jr., 35% to Pohl, Lee W. and 25% to Carinhas, Jack G., Jr. Bilge scavenger. 3,643,802, 2-22-72, Cl. 210-172.
- Jackson, Billy G., to Lilly, Eli, and Company. Cephalosporin compositions. 3,671,449, 6-20-72, Cl. 252-182.000.
- Jackson, Billy G., to Lilly, Eli, and Company. Process for preparing cephalosporin compounds. 3,694,437, 9-26-72, Cl. 260-243.00c.
- Jackson, Bossie, Jr.: *See—*
Kaye, Seymour M.; and Jackson, Bossie, Jr., 3,690,972.
- Jackson, Brian; and Barrett, John Eric, to EMI Limited. Improvements relating to the output power derived from phase modulating. 3,686,588, 8-22-72, Cl. 332-9.00r.
- Jackson, Bruce W., to Du Pont de Nemours, E. I., and Company. Chain transfer linked urethane graft copolymers. 3,689,593, 9-5-72, Cl. 260-859.000.
- Jackson, Byron, Inc.: *See—*
Barron, Charles D., 3,648,814.
- Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,648,858.
- Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,675,900.
- Dickmann, John L.; and Flick, Howard S., 3,635,105.
- Geczy, Bela; and Wilms, Carl Alfred, 3,691,875.
- Langowski, Faustyn C.; and Turner, John W., Jr., 3,655,071.
- Langowski, Faustyn C., 3,695,669.
- Nicolson, Garth Fancher; and Wilms, Carl Alfred, 3,704,638.
- Shirvany, John Anoush, 3,677,017.
- Ticknor, William C., 3,684,272.
- Wilms, Carl Alfred, 3,706,243.
- Jackson, Carl Thomas, to True Temper Corporation. Fiber glass reinforced golf shaft. 3,646,610, 2-29-72, Cl. 273-80.
- Jackson, Carl Thomas, to True Temper Corporation. Apparatus for producing fiber glass articles. 3,676,258, 7-11-72, Cl. 156-392.000.
- Jackson, Charles A.: *See—*
Hogg, William J.; Jackson, Charles A.; Harvin, Septimus A.; and Whitesel, Joseph C., 3,695,983.
- Jackson, Charles A., to Unidynamics/Phoenix, Inc. Pushbutton diaphragm switch with improved dimple actuator and/or capacitance type switch contact structure. 3,643,041, 2-15-72, Cl. 200-5.
- Jackson, Charles L., to Signatron, Inc. Alarm system using coded signalling. 3,701,019, 10-24-72, Cl. 325-64.000.
- Jackson, Clive G. B., to Bendix Corporation, The. Dual-element centrifugal pump pressure responsive flow regulator means. 3,658,440, 4-25-72, Cl. 417-62.
- Jackson Controls Company, Inc.: *See—*
Sears, Charles K., 3,661,342.
- Jackson, David B., to Hercules Incorporated. Adjustable beater bar. 3,684,142, 8-15-72, Cl. 225-97.000.
- Jackson, David H. Pitch-changing tuning device for string instruments. 3,688,631, 9-5-72, Cl. 84-312.000.
- Jackson, David L., to Thomas & Betts Corporation. Method of making a series of electrical connections. 3,643,327, 2-22-72, Cl. 29-628.
- Jackson, David L. Underwater dye-marker release mechanism. 3,670,692, 6-20-72, Cl. 116-124.00b.
- Jackson, Dennis B., to Wiltshire Cutlery Company Proprietary Limited. Knife scabbard or holder. 3,676,961, 7-18-72, Cl. 51-214.000.
- Jackson, Dennis E.; and Rustin, Francis R., to Naremcro, Inc. Flow proportioning device and magnetically operated valve therefor. 3,656,506, 4-18-72, Cl. 137-414.
- Jackson, Donald N. Boat hulls. 3,698,342, 10-17-72, Cl. 114-66.50r.
- Jackson, Donald Richard Patrick. Apparatus for wrapping articles of a shape of thin rectangular parallelepipeds. 3,685,249, 8-22-72, Cl. 53-133.000.
- Jackson, Earl V.: *See—*
Hoffman, Sanford G.; Jackson, Earl V.; Starkweather, Gary K.; and Zucker, Edwin, 3,703,335.
- Jackson, Frederick E. Disposable catheter apparatus. 3,648,704, 3-14-72, Cl. 128-349.
- Jackson, George: *See—*
Sturgeon, George; and Jackson, George, 3,674,389.
- Jackson, George E., to Union Carbide Corporation. Apparatus and method for warp knitting a simulated woven fabric. 3,665,733, 5-30-72, Cl. 66-87.
- Jackson, George E., to Union Carbide Corporation. Simulated-weave, warp-knit fabric, and method for making the same. 3,675,447, 7-11-72, Cl. 66-192.000.
- Jackson, George E. Sheer warp knit garment and method for making same. 3,685,319, 8-22-72, Cl. 66-87.00r.
- Jackson, George E., to Union Carbide Corporation. Foundation garment and method of making same. 3,703,820, 11-28-72, Cl. 66-177.000.
- Jackson, George Edward, to Union Carbide Corporation. Warp knitted garments and apparatus and method for making the same. 3,656,324, 4-18-72, Cl. 66-177.
- Jackson, George Oliver: *See—*
Gatley, John Andrew; and Jackson, George Oliver, 3,702,282.
- Jackson, George W.: *See—*
Elliott, James O.; and Jackson, George W., 3,667,019.
- Gute, Loren R.; and Jackson, George W., 3,670,353.
- Jackson, George W., to Hydro Flame Corporation. Wall-mounted fluid-fuel furnace. 3,662,735, 5-16-72, Cl. 126-85.
- Jackson, George W.; and Whelan, James E., to General Motors Corporation. Engine cam operated air compressor for vehicle leveling system. 3,671,150, 6-20-72, Cl. 417-395.000.
- Jackson, George W.; Long, Paul J., Jr.; and Fannin, Wayne V., to General Motors Corporation. Energy absorbing bumper system. 3,700,273, 10-24-72, Cl. 293-70.000.
- Jackson, Harold Ernest, to Petrol Injection Limited. Fuel injection systems. 3,650,258, 3-21-72, Cl. 123-139.
- Jackson, Harold Ernest, to Petrol Injection Limited. Fuel injection systems. 3,683,870, 8-15-72, Cl. 123-32.0ea.
- Jackson, Harold Ernest, 1/2 to Petrol Injection Limited. Fuel supply systems. 3,685,503, 8-22-72, Cl. 123-127.000.
- Jackson, Harold Ernest, to Petrol Injection Limited. Fuel injection nozzles. 3,685,742, 8-22-72, Cl. 239-407.000.
- Jackson, Harold Ernest, to Petrol Injection Limited. Fuel injector devices. 3,695,518, 10-3-72, Cl. 239-533.000.
- Jackson, Harold G. Leveling device. 3,665,536, 5-30-72, Cl. 14-71.
- Jackson, Harold W.: *See—*
Tewksbury, John M.; Jackson, Harold W.; and Powell, Thomas H., Jr., 3,660,781.
- Jackson, Henry G.: *See—*
Van Doornewaard, Hans; and Jackson, Henry G., 3,679,786.
- Jackson, Homer E., to Navsat Corporation. Aircraft collision warning system. 3,691,559, 9-12-72, Cl. 343-112.00d.
- Jackson, Hosea: *See—*
Mosley, Sterling; and Jackson, Hosea, 3,701,986.
- Jackson, Howard Rodney, to International Computers Limited. Data storage systems. 3,676,857, 7-11-72, Cl. 340-172.500.
- Jackson, Jack M.: *See—*
Darley, Henry C. H.; and Jackson, Jack M., 3,689,410.
- Jackson, James A., to Standard Oil Company (Indiana). Process for removal of aromatic bromine in benzoic acid production. 3,642,883, 2-15-72, Cl. 260-525.
- Jackson, James C., to Phillips Petroleum Company. Method of heat sealing a peelable cover onto a container. 3,701,699, 10-31-72, Cl. 156-69.000.
- Jackson, Jesse, Jr.: *See—*
MacMillan, Robert T.; and Jackson, Jesse, Jr., 3,700,766.

- Jackson, John C., Jr. Method of treating burned skin. 3,655,881, 4-11-72, Cl. 424-144.
- Jackson, John Ernest, to Imperial Chemical Industries Limited. Stabilized polyamides. 3,640,948, 2-8-72, Cl. 260-45.75.
- Jackson, John L., to Technical, Inc. Photographic support system. 3,699,252, 10-17-72, Cl. 178-7.200.
- Jackson, John Maxwell, to Jackson, Max, Developments Limited. Multi-colour printing machine for cylindrical and frusto-conical objects. 3,645,201, 2-29-72, Cl. 101-38.
- Jackson, Keith L., to General Steel Industries, Inc. Railway vehicle truck articulated. 3,661,097, 5-9-72, Cl. 105-119.
- Jackson, Larry L., to Dow Chemical Company, The. Recovery of 1,2,4,5-tetrachlorobenzene and heat transfer agents. 3,647,894, 3-7-72, Cl. 260-650.
- Jackson, Lewis B., Jr. Position control and indicating mechanism. 3,643,141, 2-15-72, Cl. 318-162.
- Jackson, Lloyd J.: *See—*
Willard, Robert C.; Craig, Jimmie M.; and Jackson, Lloyd J., 3,706,277.
- Jackson, Lynden Ashbrooke: *See—*
Ravenscroft, Ivor Albert; and Jackson, Lynden Ashbrooke, 3,703,690.
- Jackson, Max, Developments Limited: *See—*
Jackson, John Maxwell, 3,645,201.
- Jackson, Meryl R., to Greeman Laboratories, Inc. Powder sampler. 3,667,512, 6-6-72, Cl. 141-130.000.
- Jackson, Neville: *See—*
Andrew, Herbert Francis; and Jackson, Neville, 3,664,995.
- Jackson, Paul Louis, to Ford Motor Company. Determination of oxygen in molten steel. 3,674,654, 7-4-72, Cl. 204-1.00t.
- Jackson Products Company: *See—*
Hollister, John L., 3,638,530.
- Jackson, Richard H.; and Schulz, George H., to Gits Bros., Mfg., Co. Seal. 3,687,464, 8-29-72, Cl. 277-153.000.
- Jackson, Richard M. Tire underinflation telltale device. 3,662,703, 5-16-72, Cl. 116-34.
- Jackson, Richard R. Kite. 3,697,023, 10-10-72, Cl. 244-153.00r.
- Jackson, Richard Robert. Self-inflating endotracheal tube. 3,707,151, 12-26-72, Cl. 128-351.000.
- Jackson, Robert C., to Stylon Corporation. Method for assembling groups of flat modular pieces. 3,658,621, 4-25-72, Cl. 156-289.
- Jackson, Robert G., to Conch International Methane Limited. Storage arrangement for liquefied gas. 3,648,880, 3-14-72, Cl. 220-10.
- Jackson, Robert G., to Conch International Methane Limited. In-ground storage arrangement for liquefied gases. 3,662,558, 5-16-72, Cl. 61-5.
- Jackson, Robert G., to Conch International Methane Limited. Off-shore storage tanks. 3,675,431, 7-11-72, Cl. 61-46.000.
- Jackson, Robert G. Stretch-draw tubing process. 3,678,727, 7-25-72, Cl. 72-367.000.
- Jackson, Robert Glover, to Conch International Methane Limited. Storage arrangement for liquefied gases. 3,648,879, 3-14-72, Cl. 220-9.
- Jackson, Robert V.: *See—*
Burkett, Wilford B.; and Jackson, Robert V., 3,659,170.
- Jackson, Robert W.: *See—*
Nelson, Norman A.; and Jackson, Robert W., 3,634,419.
- Nelson, Norman A.; and Jackson, Robert W., 3,642,800.
- Jackson, Roland S.: *See—*
Benson, Sidney W.; Haugen, Gilbert R.; and Jackson, Roland S., 3,647,387.
- Jackson, Roy; and Wehner, John Francis, to Du Pont de Nemours, E. I., and Company. Stable tolylene diisocyanate compositions. 3,652,424, 3-28-72, Cl. 252-182.
- Jackson, Samuel Robert, to Varian Associates. Depressable beam collector structure for electron tubes. 3,666,980, 5-30-72, Cl. 313-39.
- Jackson, Squire Ronald; Greenwood, Kenneth; Heaton, Alban; and Harrison, Alwin. Apparatus for regulation of airflow to flame tubes for gas turbine engines. 3,691,761, 9-19-72, Cl. 60-39.230.
- Jackson, Steven B.; Freieich, Ernest; and Hammond, James D., to Fluor Corporation. Low pressure ethylene recovery process. 3,675,435, 7-11-72, Cl. 62-26.000.
- Jackson, Stewart C.; and Harrison, Arthur, to Tatton, William, & Co. Limited. Methods of drying yarns and apparatus therefor. 3,643,340, 2-22-72, Cl. 34-15.
- Jackson, Stuart P.: *See—*
Evans, Robert W.; and Jackson, Stuart P., 3,660,688.
- Jackson, Stuart P. Standby power circuit utilizing multiple pulse modulation for converting D.C. to A.C. electric power. 3,638,095, 1-25-72, Cl. 321-9.
- Jackson, Stuart P. Converter circuit for A.C. to D.C. with feedback means. 3,644,819, 2-22-72, Cl. 321-20.
- Jackson, Thomas Meirion; Bush, Eric Langley; Rowe, Thomas John; and Moule, David John, to Standard Telephones and Cables Limited. Photolithographic masks. 3,650,796, 3-21-72, Cl. 117-8.
- Jackson, Weldon H.; Robison, Billie J.; and Hewlett-Packard Company, to RF Sputtering system with the anode enclosing the target. 3,661,758, 5-9-72, Cl. 204-298.
- Jackson, Wendell T.; Garrett, Beverley R.; and Vicars, Earl C., to Hexcel Corporation. Honeycomb having laminates of unidirectional strands. 3,673,058, 6-27-72, Cl. 161-68.000.
- Jackson, Wendell T.; and Balaban, Martin M., to Hexcel Corporation. Method and apparatus for testing thin webs in shear. 3,690,161, 9-12-72, Cl. 73-101.000.
- Jackson, Wilbur. Tufting machine stop motion embodying light beam and sensor with triggering circuit responding to yarn breaks. 3,687,095, 8-29-72, Cl. 112-79.00r.
- Jackson, Wilbur C.; and Beck, William P., to Sunbeam Corporation. Electric dry shaver with inclined shaving head. 3,639,984, 2-8-72, Cl. 30-34.1.
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- Jackson, Wilbur F.; and Willson, James R., to Robertshaw Controls Company. Non-linear temperature responsive valve assemblies. 3,664,582, 5-23-72, Cl. 236-93.
- Jackson, William E.: *See—*
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- Jackson, William E., to Goodyear Tire & Rubber Company, The. Composition prepared by treating diamine-ketone mixtures with calcium carbide. 3,645,907, 2-29-72, Cl. 252-182.
- Jackson, William E., to Goodyear Tire & Rubber Company, The. Method for improving the adhesion of polyester compositions. 3,647,513, 3-7-72, Cl. 117-47.
- Jackson, William Herbert: *See—*
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- Jackson, William J. Unloader for storage bins. 3,647,094, 3-7-72, Cl. 214-17.
- Jackson, Winston J., Jr.: *See—*
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- Jackson, Winston J., Jr.; and Caldwell, John R., to Eastman Kodak Company. Low viscosity high strength thermoplastic adhesive. 3,644,267, 2-22-72, Cl. 260-33.6.
- Jackson, Winston J., Jr.; Kuhfuss, Herbert F.; and Caldwell, John R., to Eastman Kodak Company. Shaped articles of blends of polyesters and polyvinyls. 3,644,574, 2-22-72, Cl. 260-873.
- Jackson, Winston J., Jr.; Caldwell, John R.; and Kuhfuss, Herbert F., to Eastman Kodak Company. Linear polyesters having free carboxyl radicals distributed along the molecular chain, coatings thereof and coated substrates. 3,652,502, 3-28-72, Cl. 260-75.
- Jackson, Winston J., Jr.; and Caldwell, John R., to Eastman Kodak Company. Surface brominated fibers comprised of poly (1,4-cyclohexylene-dimethylene terephthalate). 3,654,232, 4-4-72, Cl. 260-75.
- Jackson, Winston J., Jr.; and Watson, Marshall T., to Eastman Kodak Company. Textile yarn. 3,670,489, 6-20-72, Cl. 57-140.000.
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- Jackson, Winston J., Jr., to Eastman Kodak Company. Processable polyester compositions. 3,703,495, 11-21-72, Cl. 260-30.60r.
- Jacky, Germaine F.; and Ehrlich, Richard D., to United States of America, Atomic Energy Commission. Uranium surface preparation for electroless nickel plating. 3,700,482, 10-24-72, Cl. 117-50.000.
- Jacob, Abraham H.; and Franke, John L., to General Instrument Corporation. Touch switch array panel. 3,701,869, 10-31-72, Cl. 200-167.00r.
- Jacob, Adir, to LFE Corporation. Gas discharge apparatus. 3,705,091, 12-5-72, Cl. 205-312.000.
- Jacob, Bernarr A.: *See—*
GaLasso, Francis S.; Jacob, Bernarr A.; and Pinto, Jane P., 3,698,970.
- Jacob, Charles Junior; and Lawton, Gerald Wayne, to RCA Corporation. Method of making electrical connections to a glass-encapsulated semiconductor device. 3,669,734, 6-13-72, Cl. 117-217.
- Jacob, Ezekiel J.: *See—*
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- Jacob, Ezekiel J. Surgical blade package. 3,669,256, 6-13-72, Cl. 206-63.20r.
- Jacob, Francis J.: *See—*
Sterrett, Robert W.; and Jacob, Francis J., 3,677,874.
- Jacob, George M.: *See—*
Storey, William T., II; Procter, Robert F.; Snyder, Charles H. A.; Jacob, George M.; and Mooney, Raymond T., 3,672,046.
- Jacob, Gerald W.; Mogul, Eugene; Boros, Paul Z.; Schiff, David; Reader, Malcolm; and Kamen, Ira, to Comfax Communications Industries, Inc., mesne. Adaptive multiple speed facsimile system. 3,646,256, 2-29-72, Cl. 178-6.
- Jacob, Hans Oscar: *See—*
Greene, Robert Raymond; Jacob, Hans Oscar; and Meece, Meredith Wayne, 3,650,639.

- Jacob, Harry J., Jr., to Warner & Swasey Company, The. Machine tool spindle and control therefor. 3,689,166, 9-5-72, Cl. 408-11.000.
- Jacob, Herbert: *See*—
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- Jacob, Jean-Baptiste, to C.I.T.-Compagnie Industrielle des Telecommunications and Societe Lannionaise d'Electronique. Expanded multi-stage time connection network. 3,674,938, 7-4-72, Cl. 179-15.000.
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- Jacob, Larry Michael: *See*—
Esterly, Daniel David; and Jacob, Larry Michael, 3,652,808.
- Jacob, Louis: *See*—
Guillet, Hubert; Jacob, Louis; Mouchart, Jacques; and Sturel, Bernard, 3,663,087.
- Jacob, Louis, to Commissariat a l'Energie Atomique. Device for improving the optical qualities of a laser beam. 3,674,340, 7-4-72, Cl. 350-157.000.
- Jacob, Oscar Ernst Otto, to Greiff-Werke Gustav Winkler KG. Men's coat. 3,651,520, 3-28-72, Cl. 2-272.
- Jacob, Richard J., to Dayco Corporation. Golf putter with rotatable sole device mounted thereon. 3,680,868, 8-1-72, Cl. 273-174.000.
- Jacob, Richard J., to Dayco Corporation. Loom picker. 3,698,443, 10-17-72, Cl. 139-159.000.
- Jacob, Werner, to Industriewerk Schaeffler OHG. Ball bearing. 3,672,737, 6-27-72, Cl. 308-196.000.
- Jacobe, Jean: *See*—
Allemand, Robert; Brey, Christian; and Jacobe, Jean, 3,703,638.
- Jacobellis, Alphonse A., to Greer Hydraulics, Inc. Relief and unloading valve. 3,636,969, 1-25-72, Cl. 137-115.
- Jacobellis, Alphonse A., to Greer Hydraulics, Inc. Rotary actuator. 3,680,982, 8-1-72, Cl. 417-392.000.
- Jacobi, Hans-Rudolf; Hauser, Abel; and Hoffmann, Manfred, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for the manufacture of moldings of polylactams by activated anionic polymerization of lactams. 3,642,974, 2-15-72, Cl. 264-294.
- Jacobi, Oskar: *See*—
Rieschel, Hans; and Jacobi, Oskar, 3,638,531.
- Jacobi, William I. Movable heat-sealing apparatus. 3,654,043, 4-4-72, Cl. 156-582.
- Jacobitz, Harvey A., to C-H Tool & Die Corporation. Shell reloading apparatus. 3,693,497, 9-26-72, Cl. 86-28.000.
- Jacobowsky, Armin: *See*—
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- Wirtz, Peter; Jacobowsky, Armin; Mittler, Werner; and Gerhardt, Wilfried, 3,696,015.
- Jacobs, Abe: *See*—
Greenberg, Samuel; and Jacobs, Abe, 3,682,571.
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- Jacobs, Albert J.: *See*—
Reyes, Gilbert, 3,656,749.
- Jacobs Associates: *See*—
Williamson, Thomas N., 3,643,998.
- Williamson, Thomas N., 3,650,564.
- Jacobs, Barry Edward Adrian: *See*—
Baker, Peter John; Gale, Graham John; and Jacobs, Barry Edward Adrian, 3,693,646.
- Jacobs, Charles D. Golf ball retrieving club. 3,632,112, 1-4-72, Cl. 273-162.
- Jacobs, Cornelis Adrianus Joannes; Beijer, Louis Benjamin; and Driessen, Antonius Jozephus Gerardus Cornelis, to U.S. Philips Corporation. High-pressure mercury vapour iodide discharge lamp. 3,639,801, 2-1-72, Cl. 313-223.
- Jacobs, David F., to Westinghouse Electric Corporation. Method and apparatus for light detector fabrication without brazing. 3,683,192, 8-8-72, Cl. 250-216.000.
- Jacobs, David F., to Westinghouse Electric Corporation. Method and apparatus for light detector fabrication without brazing. 3,702,402, 11-7-72, Cl. 250-216.000.
- Jacobs, Donald R., to American Home Products Corporation. Merchandising fixture. 3,697,033, 10-10-72, Cl. 248-226.000.
- Jacobs, Earl D., to Sundstrand Data Control, Inc., mesne. Accelerometer. 3,702,073, 11-7-72, Cl. 73-517.000.
- Jacobs, Gerardus Henricus Johannus. Method of and an apparatus for determining the length of fibers suspended in a liquid. 3,705,348, 12-5-72, Cl. 324-71.000.
- Jacobs, Harold; Kerecman, Albert J.; and Schumacher, James D., to United States of America, Army. Laser energy monitor and control. 3,691,478, 9-12-72, Cl. 331-94.500.
- Jacobs, Harry. Versatile grill supports. 3,692,266, 9-19-72, Cl. 248-224.000.
- Jacobs, Harry E., to Atlantic Richfield Company. Treating detergent alkylate. 3,646,238, 2-29-72, Cl. 260-674.
- Jacobs, Harry E.; and Worrell, George R., to Atlantic Richfield Company. Coal processing. 3,663,420, 5-16-72, Cl. 208-8.000.
- Jacobs, Harvey Barry. Emergency percutaneous trans-tracheal high flow oxygen catheter-type resuscitator for restoration of breathing in non-breathing patients. 3,682,166, 8-8-72, Cl. 128-145.800.
- Jacobs, Herbert V.: *See*—
Schwenk, Arthur; Baron, Herschel; and Jacobs, Herbert V., 3,632,106.
- Winston, Eric; and Jacobs, Herbert V., 3,670,673.
- Jacobs, Herbert V.; and Winston, Eric, to Jacobs, Herbert V., mesne. Ply shifter assembly. 3,647,202, 3-7-72, Cl. 271-19.
- Jacobs, Herbert V.; and Kirk, Donald, Jr., said Jacobs assor. to Jacobs Machine Corporation. Apparatus for securing buttons to fabric. 3,650,647, 3-21-72, Cl. 425-109.
- Jacobs, Herbert V., mesne: *See*—
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- Jacobs, James W., to General Motors Corporation. Selective heating system for automatic washing machine. 3,635,229, 1-18-72, Cl. 134-58.
- Jacobs, James W., to General Motors Corporation. Air conditioner with cycling fresh air periods. 3,643,461, 2-22-72, Cl. 62-180.
- Jacobs, James W., to General Motors Corporation. Continuously variable air deflector. 3,645,193, 2-29-72, Cl. 98-94.
- Jacobs, James W., to General Motors Corporation. Thermochromic light flashing system. 3,648,280, 3-7-72, Cl. 340-366.
- Jacobs, James W., to General Motors Corporation. Dishwasher with selectable levels of wash. 3,648,931, 3-14-72, Cl. 239-248.
- Jacobs, James W., to General Motors Corporation. Photochromic time delay unit. 3,654,474, 4-4-72, Cl. 250-206.
- Jacobs, James W., to General Motors Corporation. Dishwasher having improved condensation means. 3,658,075, 4-25-72, Cl. 134-107.
- Jacobs, James W., to General Motors Corporation. Automobile air conditioning compressor superheat safety and ambient switch. 3,702,065, 11-7-72, Cl. 62-158.000.
- Jacobs, John, & Co.: *See*—
Schmidt, Ernst G. F. H.; Walkowsky, Bernhard; Grote, Wilfried Christoph; and Janssen, Matthias (said Schmidt, said Walkowsky, and said Grote assors. to), 3,695,167.
- Jacobs, John H.; and Corrigan, Richard A., to Bell & Howell Company. Lead iodine film. 3,661,586, 5-9-72, Cl. 96-48.
- Jacobs, Justin M., Jr.; and Stafford, Neil S. Transportation system. 3,659,529, 5-2-72, Cl. 104-88.
- Jacobs, Louis J.: *See*—
Felice, Frank T.; Fisher, Robert E.; and Jacobs, Louis J., 3,637,412.
- Jacobs, Louis L. Fish hook setters. 3,699,701, 10-24-72, Cl. 43-15.000.
- Jacobs Machine Corporation: *See*—
Jacobs, Herbert V.; and Kirk, Donald, Jr. (said Jacobs assor. to), 3,650,647.
- Schwenk, Arthur; Baron, Herschel; and Jacobs, Herbert V., 3,632,106.
- Winston, Eric; and Jacobs, Herbert V., 3,670,673.
- Jacobs, Maurice A.: *See*—
Nobile, Charles B.; and Jacobs, Maurice A., 3,653,074.
- Jacobs, Michael Lawrence, to General Electric Company Limited. The. Circuits for private automatic telephone exchange systems. 3,697,704, 10-10-72, Cl. 179-86.000.
- Jacobs, Paul F., to Goodyear Tire & Rubber Company. The. Pneumatic tire. 3,698,462, 10-17-72, Cl. 152-209.000.
- Jacobs, Paul H.; Peay, Robert L.; and Wisherd, David S., to Motorola, Inc. Microstrip impedance matching circuit with harmonic terminations. 3,662,294, 5-9-72, Cl. 333-33.000.
- Jacobs, Philip C., Jr., to Chase-Shawmut Company. The. Convection cooled fuse. 3,693,128, 9-19-72, Cl. 337-166.000.
- Jacobs, Richard L., to Sherwin-Williams Company. The. Method of preparing 3-substituted pyridopyrimidinediones and lumazines. 3,635,973, 1-18-72, Cl. 260-251.5.
- Jacobs, Richard Lee: *See*—
Saaty, Nabil Najib; and Jacobs, Richard Lee, 3,701,796.
- Jacobs, Richard M.; Alexander, Dave W.; and Gronroos, Charles M., to United States of America, Navy. Life support system for deep submersible vehicles. 3,661,107, 5-9-72, Cl. 114-16.000.
- Jacobs, Robert B.: *See*—
Hoekstra, Gerald B.; and Jacobs, Robert B., 3,674,680.
- Jacobs, Theodore A.: *See*—
Spencer, Donald J.; Mirels, Harold; Jacobs, Theodore A.; and Gross, Rolf W. F., 3,688,215.
- Jacobs, Wayne John; Fritz, Robert William; and Peiffer, Howard Richard, to AMP Incorporated. Method of forming electrical contact materials. 3,697,389, 10-10-72, Cl. 204-37.000.
- Jacobs, Willi F.; and Platzer, Maximilian F., to Lockheed Aircraft Corporation. Airfoil including fluidically controlled jet flap. 3,669,386, 6-13-72, Cl. 244-52.000.
- Jacobs, William A.: *See*—
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- Jacobs, William A. Extruding and filling containers made of foamed thermoplastic polymer. 3,696,179, 10-3-72, Cl. 264-45.000.

- Jacobsen, Arnulv Moe, to A/S Norsk Kabelfabrik. Reeling apparatus for army cable. 3,637,158, 1-25-72, Cl. 242-96.
- Jacobsen, Arnulv Moe, to A/S Norsk Kabelfabrik. Method of packaging telephone cable. 3,690,087, 9-12-72, Cl. 53-21.000.
- Jacobsen, Arnulv Moe, to A/S Norsk Kabelfabrik. Cable package for army telephone cable. 3,637,071, 1-25-72, Cl. 206-52.
- Jacobsen, Erik Chresten, to Vilh. Pedersen A/S. Method for die-cutting sheet materials by means of a die-cutting machine and a die-cutting plant for the performance of this method. 3,643,534, 2-22-72, Cl. 83-29.
- Jacobsen, Eudell G.; and Martens, David A., to General Motors Corporation. Engine oil pan. 3,653,464, 4-4-72, Cl. 184-6.2.
- Jacobsen, Gunter: *See*—
Fernholz, Hans; and Jacobsen, Gunter, 3,641,113.
- Krekeler, Hans; Fernholz, Hans; and Jacobsen, Gunter, 3,637,818.
- Jacobsen, Jac., to Jacobsen, Jac., A/S. Device made from insulating material for electrical insulation of a switch in a work-lamp shield. 3,702,931, 11-14-72, Cl. 240-122.000.
- Jacobsen, Jac., A/S: *See*—
Jacobsen, Jac., 3,702,931.
- Jacobsen, Jerome G.: *See*—
Wine, Robert R.; and Jacobsen, Jerome G., 3,641,791.
- Jacobsen, Julius A. Attachment for holding a forage knife on a grinding machine. 3,656,263, 4-18-72, Cl. 51-238.
- Jacobsen Manufacturing Company: *See*—
Akgulian, Sahag C.; and Haffner, Donald G., 3,662,528.
- Akgulian, Sahag C.; Haffner, Donald G.; and Heth, Sherman C., 3,668,844.
- Akgulian, Sahag C.; and Haffner, Donald G., 3,672,696.
- Rogers, Chester D., 3,670,834.
- Rogers, Chester D., 3,685,469.
- Jacobsen, Paul W., to Weber, H. G., and Company, Inc. Stacker for bags and the like. 3,643,816, 2-22-72, Cl. 214-614.
- Jacobsen, Robert K. Four-ball plastic hinge. 3,636,589, 1-25-72, Cl. 16-171.
- Jacobsen, Stephen C.: *See*—
Kolff, Willem J.; and Jacobsen, Stephen C., 3,631,607.
- Jacobsen, Theodor: *See*—
Trieschmann, Hans-Georg; Rau, Wolfgang; Jacobsen, Theodor; and Pfannmueller, Helmut, 3,652,527.
- Jacobson, Alden H., to Heald Machine Company. The. Machine tool. 3,635,109, 1-18-72, Cl. 82-2.
- Jacobson, Alexander D.: *See*—
Margerum, John D.; and Jacobson, Alexander D., 3,694,218.
- Jacobson, Allan I., and Fisher, Philip J. M. Mullion device for window. 3,645,058, 2-29-72, Cl. 52-456.
- Jacobson, Arthur F.; and Jacobson, Harold D. Safety glasses case with ID card holder and pencil carrying pocket protector. 3,647,056, 3-7-72, Cl. 206-5.
- Jacobson, Calvin L.; Morken, Robert E.; and Silver, Norman C. Hammermill hammer and assembly. 3,682,401, 8-8-72, Cl. 241-195.000.
- Jacobson, Charles R.; D'Adamo, Anthony; and Cosgrove, Charlotte E., to Knoll Pharmaceutical Company. Urazoles and their production. 3,663,564, 5-16-72, Cl. 260-308.
- Jacobson, Chester E.: *See*—
Lukens, Alan F.; Holden, Everett S.; and Jacobson, Chester E., 3,648,797.
- Jacobson, Clayton J. Marine vehicle steering assembly. 3,658,026, 4-25-72, Cl. 115-12.
- Jacobson, David R.: *See*—
Barrett, Charles E.; and Jacobson, David R., 3,681,990.
- Jacobson, David S.: *See*—
United States of America, National Aeronautics and Space Administration, 3,705,255.
- Jacobson, Earl D. Fish lure. 3,643,369, 2-22-72, Cl. 43-42.03.
- Jacobson, Eugene, to Sun Chemical Corporation. Decorative bow making apparatus with shaped stapling anvil. 3,661,307, 5-9-72, Cl. 223-46.000.
- Jacobson, Gunnar; and Olsson, Olof Bertil, to Aktiebolaget Bofors. Missile. 3,684,215, 8-15-72, Cl. 244-3.270.
- Jacobson, Gunnar, to Aktiebolaget Bofors. Coupling device for pipes with circular cross sections. 3,701,550, 10-31-72, Cl. 285-39.000.
- Jacobson, Harold D.: *See*—
Jacobson, Arthur F.; and Jacobson, Harold D., 3,647,056.
- Jacobson, Howard C. Air valve structure for hammermill. 3,702,686, 11-14-72, Cl. 241-59.000.
- Jacobson, James J., to Wahl Associates, Inc. Storage and retrieval device. 3,658,185, 4-25-72, Cl. 211-40.
- Jacobson, John E.: *See*—
Carrano, Andrew J., Jr.; Cotsalas, Stephen N.; and Jacobson, John E., 3,679,208.
- Jacobson, John L.: *See*—
Hutton, Duane A.; and Hutton, Wallace, 3,656,638.
- Jacobson, Norman, to Esso Research and Engineering Company. Multifunctional polymeric additive. 3,637,610, 1-25-72, Cl. 260-78.5.
- Jacobson, Oscar D., to Bendix Corporation. The. Hydrostatically supported gyroscope a combined centrifugal and viscous shear rotary pump. 3,643,516, 2-22-72, Cl. 74-5.
- Jacobson, Oscar D., to Bendix Corporation. The. In a hydrostatically supported gyroscope a flexible tube pump providing fluid circulation to hydrostatic bearings of the gyroscope. 3,653,267, 4-4-72, Cl. 74-5.
- Jacobson, Oscar D., to Bendix Corporation. The. Piezoelectric crystal operated pump to supply fluid pressure to hydrostatically support inner bearings of a gyroscope. 3,657,930, 4-25-72, Cl. 74-5.
- Jacobson, Oscar D., to Bendix Corporation. The. Neutrally floated gyro with meniscus centering. 3,657,931, 4-25-72, Cl. 74-5.
- Jacobson, Oscar D., to Bendix Corporation. The. Liquid armature induction pump for an electrically conductive liquid to support a gimbal element of a gyroscope in a hydrostatic bearing. 3,662,609, 5-16-72, Cl. 74-5.
- Jacobson, Robert L.: *See*—
Carey, Ralph A.; and Jacobson, Robert L., 3,660,275.
- Haunschild, Willard M.; Jacobson, Robert L.; and McCoy, Charles S., 3,691,062.
- Jacobson, Robert L.; and Spurlock, Burwell, to Chevron Research Company. Chloride addition during hydrogenation. 3,639,227, 2-1-72, Cl. 208-143.
- Jacobson, Stanley I.; and Sansbury, John R., to Hughes Aircraft Company. Fragmenting cover. 3,674,227, 7-4-72, Cl. 244-121.000.
- Jacobson, Sydney; Knowles, Denis; and Parker, Derek, to Montage Burton Limited. Method of bonding an interlining to a garment using stray field dielectric heating. 3,674,592, 7-4-72, Cl. 156-274.000.
- Jacobson, Wayne B., to Iowa Manufacturing Company. Linearized gate control system for multiple feeder and hopper arrangements. 3,696,976, 10-10-72, Cl. 222-504.000.
- Jacobson, William P., to Anderson Bros. Mfg. Co. Package and blank therefor. 3,656,614, 4-18-72, Cl. 206-65.
- Jacobsson, Jan Roland, to AGA Aktiebolag. Vapor deposition apparatus. 3,695,217, 10-3-72, Cl. 118-49.500.
- Jacobucci, Romeo. Tile holding and placement device. 3,643,992, 2-22-72, Cl. 294-65.
- Jacobus, Charles J. Control system. 3,659,672, 5-2-72, Cl. 180-65.
- Jacobus, Dwight W.; and Simms, Michael L., to General Electric Company. Household refrigerator including exterior ice service. 3,640,088, 2-8-72, Cl. 62-320.
- Jacobus, Rodman M. Pacifier and safety teething ring assembly. 3,653,386, 4-4-72, Cl. 128-360.
- Jacoby, Charles H., to International Salt Company. Geothermal energy recovery from deep caverns in salt deposits by means of air flow. 3,661,424, 5-9-72, Cl. 299-5.
- Jacoby, Charles H., to International Salt Company. Salt solution mining and geothermal heat utilization system. 3,676,078, 7-11-72, Cl. 23-299.000.
- Jacoby, Charles H., to International Salt Company. Grouting fissures in underground rock salt deposits. 3,702,059, 11-7-72, Cl. 61-35.000.
- Jacoby, Frederick J.: *See*—
Earhart, Howard F.; Jacoby, Frederick J.; and Starck, Clemmens B., 3,635,855.
- Jacoby, Frederick J.; Hamb, Frederick L.; and Trent, Lewis C., to Eastman Kodak Company. Photographic subbing materials. 3,658,541, 4-25-72, Cl. 96-87.
- Jacoby, Hans: *See*—
Ledergerber, Alfred; and Jacoby, Hans, 3,643,307.
- Ledergerber, Alfred; Jacoby, Hans; and Fenghler, Gerd, 3,686,986.
- Jacoby, Ian H.; Giordano, Anthony J.; and Fioretti, Warren H., to Identification Corporation. Personnel identification apparatus. 3,648,240, 3-7-72, Cl. 340-146.3.
- Jacoby, John M.: *See*—
Walbeck, Calvin; Jacoby, John M.; Gepp, Carl E.; and Robertson, Louis A., 3,685,450.
- Jacoby, William F., to AMF Incorporated. Adjustable twin-strut handlebar construction. 3,655,219, 4-11-72, Cl. 280-279.
- Jacoby-Bender, Incorporated: *See*—
Luft, Walter, 3,702,670.
- Jacomel, Arthur H.: *See*—
Burch, Darrel W.; and Jacomet, Arthur H., 3,638,774.
- Jaconette, Frank C., to Hubbell, Harvey, Incorporated. Grounding spring for electrical fixtures. 3,663,919, 5-16-72, Cl. 339-14.
- Jaconette, Frank C., to Hubbell, Harvey, Incorporated. Electrical device having an improved mounting strap. 3,688,239, 8-29-72, Cl. 339-14.000.
- Jaconette, Frank C., to Hubbell, Harvey, Incorporated. Electrical receptacle having an improved contact terminal arrangement. 3,689,870, 9-5-72, Cl. 339-217.000.
- Jacovides, Lino J.; Lyon, David M.; and Fisher, Richard M., to General Motors Corporation. Induction motor fabrication method. 3,705,971, 12-12-72, Cl. 219-121.000.
- Jacquelin, Guy, to Centre Technique de l'Industrie des Papiers, Cartons et Celluloses. Continuous manufacture of a paper sheet having a uniform consistency by projection of a slurry under pressure. 3,654,074, 4-4-72, Cl. 162-213.
- Jacquelin, Guy, to Centre Technique de l'Industrie des Papiers, Cartons et Celluloses. Method of and apparatus for continuous extrac-

- tion of liquid from a pasty suspension. 3,669,011, 6-13-72, Cl. 100-118.000.
- Jacquelin, Guy, to Societe d'Exploitation des Brevets Granofibre. Method of treating suspension of fibers to form fibrous aggregates. 3,679,542, 7-25-72, Cl. 162-1.000.
- Jacquelin, Jean, to Compagnie Generale d'Electricite. Basic cell operating with hydrocarbon fuel. 3,703,416, 11-21-72, Cl. 136-86.00r.
- Jacquemet, Andre: *See—*
Torrelli, Aldo; and Jacquemet, Andre, 3,667,626.
- Jacquemin, Werner: *See—*
Strauss, Gunther; Schneider, Klaus; and Jacquemin, Werner, 3,651,153.
- Jacques, David E., to Waveline, Inc., mesne. Milling machine with multiple-spindle attachment. 3,641,873, 2-15-72, Cl. 90-14.
- Jacques Guillon/Designers Inc.: *See—*
Labastrou, Roger, 3,664,011.
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Hoehn, Rudolph; and Jadatz, Harald B., 3,684,847.
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Leyri, Claude, 3,673,786.
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Meder, Andre Fernand; and Jaeggi, Max Rudolf, 3,660,633.
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Newton, George R.; and Jageler, Alfred H., 3,677,081.
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Nolden, Siegfried, 3,683,851.
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Ahlgren, Nils Harald; and Jahr, Odd, 3,685,801.
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Kaltenbach, Klaus, 3,638,416.
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Balmat, Georges; and Jaillet, Jean, 3,639,712.
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- James, David, to Imperial Chemical Industries Limited. Polyamide containing organo metallic compound. 3,705,134, 12-5-72, Cl. 260-78,00r.
- James, David Richard, to Murray Curvex Printing Limited. Method of offset printing or decorating an article with thermoplastic color. 3,688,695, 9-5-72, Cl. 101-211,000.
- James, David W. F.; Spiller, David O.; and Colman, Harvey D., to University College of North Wales. Getter-sputtering apparatus. 3,691,053, 9-12-72, Cl. 204-298,000.
- James, Derek Patrick, to United States Borax & Chemical Corporation. Refractory compositions containing carbon. 3,649,314, 3-14-72, Cl. 106-56.
- James, Edgar T.; and Magri, Dominic, to Swedish Crucible Steel Company. Apparatus for deflashing annular plastic articles. 3,680,568, 8-1-72, Cl. 134-63,000.
- James, Edward Anthony: See—
Di Stefano, Ralph David; and James, Edward Anthony, 3,640,765.
- James, Frazier N., Sr., to Allied Automation, Inc. Document verification and banking machine. 3,635,321, 1-18-72, Cl. 194-4.
- James, Glen S.: See—
Bailey, Robert C.; Estes, Harry A.; James, Glen S.; Klug, James R.; Montillon, Henry A.; Myring, Verne E.; Robertson, Orville H.; Sargeant, Blaine W.; and Sorensen, Neal E., 3,679,200.
- James, Herbert L.: See—
Nordblom, George F.; and James, Herbert L., 3,639,176.
- James, Jack L.: See—
Siedband, Melvin P.; and James, Jack L., 3,634,871.
- Siedband, Melvin P.; Duffy, Philip A., Jr.; and James, Jack L., 3,675,020.
- James, Jack L.; and Euler, Fred J., to CGR Medical Corporation, mesne. Starting voltage suppressor circuitry for an X-ray generator. 3,636,355, 1-18-72, Cl. 250-102.
- James, John W.; and Stevens, Robert, to Aspro-Nicholas Limited. Phloretic acid derivatives. 3,689,540, 9-5-72, Cl. 260-521,00r.
- James, John William: See—
Gittos, Maurice Ward; James, John William; and Verge, John Pomfret, 3,652,570.
- James, Mary Lea: See—
Russell, Carl D., 3,646,630.
- James, Peter; Brennan, Martin J.; and Kappes, Ben E., said Brennan and Kappes assors. to said Peter, James. Computer system utilizing a telephone as an input device. 3,647,973, 3-7-72, Cl. 179-2.
- James, Pierre Lucien Jules, to U.S. Philips Corporation. Device for positioning a patient. 3,652,077, 3-28-72, Cl. 269-322.
- James, Ralph E.: See—
Freerks, Conrad T.; Huppert, James C.; and James, Ralph E., 3,645,049.
- James, Ralph, Jr.: See—
Shelton, Marcus H.; and James, Ralph, Jr., 3,655,851.
- Wylie, Roger; and James, Ralph, Jr., 3,631,605.
- James, Randall L., to International Business Machines Corporation. No clock shift register and control technique. 3,675,216, 7-4-72, Cl. 340-172,500.
- James, Reginald: See—
Watkins, John; and James, Reginald, 3,686,906.
- James, Richard N.: See—
Applequist, James E.; Johnson, James E.; Okers, Clifford B.; Daniels, Donald V.; James, Richard N.; Roberts, Daniel M.; and Guzy, Daniel James, 3,688,656.
- James Richard N.; Applequist, James E.; and Roberts, Daniel M., to Image Products Corporation. High resolution fiber optic display and microfilm printer. 3,644,922, 2-22-72, Cl. 340-324.
- James, Robert C.: See—
Vogel, Walter H.; Cochran, Richard H.; and James, Robert C., 3,652,357.

- James, Robert C.; Wilson, David A.; and Pringle, Frank E., Jr., to Hayssen Manufacturing Company. Gas flushing system for vertical form, fill and seal machines. 3,664,086, 5-23-72, Cl. 53-112.
- James, Robert C.; Vogel, Walter H.; and Sorensen, Richard D., to Hayssen Manufacturing Company. Apparatus for web edge alignment. 3,680,446, 8-1-72, Cl. 93-82,000.
- James, Robert C.; Hart, Charles G.; Rogers, John E.; and Safranski, Richard W. Auger filler and control therefor. 3,687,250, 8-29-72, Cl. 192-12,00d.
- James, Robert E.: See—
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- James, Robert L.; and Tawfik, David A., to Bendix Corporation. The Integrator/synchronizer with infinite memory including a drift-correcting feedback circuit. 3,633,004, 1-4-72, Cl. 235-150,51.
- James, Robin Harold: See—
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- James, Ronald William: See—
Des Champs, Nicholas Howard; Mayo, Kenneth E.; Messier, Douglas Arthur; and James, Ronald William, 3,663,306.
- James, Stanley D.: See—
Arbesman, Paul H.; James, Stanley D.; and Warburton, Donald L., 3,698,960.
- James, Theodore K., to Transworld Drilling Company. Lubricator assembly device. 3,637,009, 1-25-72, Cl. 166-5.
- James, Thomas H., to Eastman Kodak Company. Methine dye sensitizers for emulsions exposed at 180° C. 3,632,348, 1-4-72, Cl. 96-107.
- James, Varnell L.: See—
Fitzgerald, John M.; and James, Varnell L., 3,687,400.
- James, William G.: See—
Kekish, George T.; James, William G.; and Simons, Duane J., 3,640,933.
- Jamesburg Corporation, mesne: See—
Sangster, Arlon G., 3,691,372.
- Jamesbury Corporation: See—
Donnelly, James F.; Gee, Wendell P.; and Phipps, Nelson S., 3,701,286.
- Rawstron, William W.; and Carlson, Edwin S. (said Rawstron assor. to said), 3,661,355.
- Schwartz, Frederick William, Jr., 3,675,679.
- Jamieson, Bruce G.: See—
Gunning, Harry E.; and Jamieson, Bruce G., 3,692,693.
- Jameston, Richard A.; and Mickus, James C., to Cargill, Incorporated. Insecticidal compositions and method of making same. 3,632,759, 1-4-72, Cl. 424-300.
- Jamieson, Ernest J.: See—
Swanson, John W.; Hartman, David A.; Beers, Russel L.; and Jamieson, Ernest J., 3,647,694.
- Jamieson, Ernest J., to Cities Service Oil Company. Gasoline composition. 3,655,351, 4-11-72, Cl. 44-66.
- Jamieson Film Company: See—
Jamieson, Hugh V., Jr.; and Melze, Charles F., 3,661,068.
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- Jamieson, Ian K. Portable device for testing electrical appliances. 3,704,411, 11-28-72, Cl. 324-53,000.
- Jamieson, James Barry, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Flow control devices. 3,643,431, 2-22-72, Cl. 60-39,71.
- Jamieson, John. Method of inscribing cemetery memorials. 3,687,750, 8-29-72, Cl. 156-63,000.
- Jamieson, John W., to Diablo Systems, Inc. Headloading system for magnetic memory disk drives. 3,702,997, 11-14-72, Cl. 340-174,10e.
- Jamieson, Robert S.: See—
Rolfes, Paul E.; and Jamieson, Robert S., 3,651,427.
- Jamieson, Robert S., to Lorain Products Corporation. Variable frequency system. 3,651,414, 3-21-72, Cl. 328-44.
- Jamieson, William Boffey: See—
Ross, William James; and Jamieson, William Boffey, 3,658,797.
- Jamison Door Company: See—
Oden Hal, Fortune; and Jordan, Harry A., 3,652,113.
- Jamison, Joel D., to Hercules Incorporated. O,O-Dialkyl phosphorothioate and phosphorothioate esters of oxazolidine-2,4-dione derivatives as systemic insecticides. 3,632,598, 1-4-72, Cl. 260-307.
- Jamison, Joel D. O,O-dialkyl S-[2-halo-1-(N-succinimido)ethyl] phosphorothioates and phosphorothioates and insecticidal compositions containing them. 3,654,307, 4-4-72, Cl. 260-326,5.
- Jamison, Joel D., to Hercules Incorporated. Certain 2-benzoxazolinone and 2-benzothiazolinone derivatives of O,O-dialkyl S-(2-haloethyl)phosphorothioates and dithioates. 3,668,213, 6-6-72, Cl. 260-304,000.
- Jamison, Robert M.: See—
Frundl, Ronald J.; Hanson, Victor W.; Jamison, Robert M.; and Arnold, Orlan M., 3,666,248.
- Jamison, Robert W.; and Norcross, Paul A., to Union Oil Company of California. Vehicle position marking device. 3,675,199, 7-4-72, Cl. 340-62,000.
- Jamison, Samuel J., to Johnson & Johnson. Fitted bed sheet. 3,694,832, 10-3-72, Cl. 5-334,000.
- Jamison, Saunders E.; and Dunay, Michael. Art of producing shaped, modified, condensation polymers. 3,639,501, 2-1-72, Cl. 260-857.
- Jamison, Saunders E., to Celanese Corporation. Diacid-diol based foams and process of making same. 3,671,471, 6-20-72, Cl. 260-250r.
- Jamison, Saunders E., to Celanese Corporation. Shaped structures. 3,681,472, 8-1-72, Cl. 260-836,000.
- Jamison, Saunders Eliot: See—
Soehngen, John William; Wagner, William Sherwood; Jamison, Saunders Eliot; and Canfield, Dale Kelley, 3,704,192.
- Jamison, Saunders Eliot, to Celanese Corporation of America. Melt extruding process comprising a trioxane monomer and a polymeric binder. 3,681,488, 8-1-72, Cl. 264-176,000.
- Jammaud, Andre, to Societe Industrielle Honeywell Bull Societe (Societe Anonyme). Signaling and control apparatus slidably and swingably mounted on a supporting cabinet. 3,675,084, 7-4-72, Cl. 317-101,00b.
- Jammet, Jean Firmin, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Process for mass production of batteries of electrochemical generators of stacked flat constituents. 3,679,489, 7-25-72, Cl. 136-175,000.
- Jammet, Jean Firmin, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Battery including pair of air-depolarized cells. 3,697,326, 10-10-72, Cl. 136-86,00a.
- Jammet, Jean-Firmin: See—
Blondel, Alain; and Jammet, Jean-Firmin, 3,663,721.
- Jamshidi, Khosrow. Fruits and nuts picking device. 3,664,104, 5-23-72, Cl. 56-332.
- Janakirama Rao, Bhogaraju V., to PPG Industries, Inc. Heat absorbing blue soda-lime-silica glass. 3,652,303, 3-28-72, Cl. 106-52.
- Janc, Zbynek: See—
Kadera, Vaclav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemec, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, 3,647,312.
- Janco Corporation: See—
Jordan, Lewis W.; and Cerniway, Leon A., 3,654,413.
- Janco, Nathan. Apparatus for coating the inside of a cylindrical member. 3,662,709, 5-16-72, Cl. 118-318.
- Janda, Clifford C. Leveler. 3,672,618, 6-27-72, Cl. 248-116,000.
- Janecek, Jaroslav: See—
Jurny, Josef; and Janecek, Jaroslav, 3,693,971.
- Janecek, Jaroslav; and Svoboda, Antonin, to Adamovske strojirny, narodni podnik. Base frame for a printing press. 3,633,495, 1-11-72, Cl. 101-1.
- Janecka, Gustav, to Waldes Kohinoor, Inc. Applicator-operated dispenser for dispensing clip-type external spring retaining rings. 3,662,921, 5-16-72, Cl. 221-312.
- Janecka, Gustav, to Kohinoor, Waldes Inc. Hand applicator for assembling external retaining rings in their grooves by radial application. 3,681,839, 8-8-72, Cl. 29-229.
- Janelid, Ingvar. Power plant driven by a gas turbine, and a method of operating such a power plant. 3,643,426, 2-22-72, Cl. 60-39,02.
- Janelid, Ingvar. Method of preventing leakage during storage of a gas or a liquid in a rock chamber by artificially supplying a gas or a liquid to the rock surrounding the rock chamber. 3,670,503, 6-20-72, Cl. 61-5.
- Janes, Jerry M.: See—
Valdo, Alex R.; and Janes, Jerry M., 3,704,193.
- Janes, John Francis: See—
Curtis, Anthony John; Jaggars, Brian George; and Janes, John Francis, 3,647,847.
- Janes, John Francis; Jaggars, Brian George; and Curtis, Anthony John, to Bush Boake Allen Limited. Perfumery compositions containing patchouli oil and 8-camphene carbinol. 3,673,120, 6-27-72, Cl. 252-522,000.
- Janetos, Nicholas S.: See—
Marzocchi, Alfred; and Janetos, Nicholas S., 3,705,073.
- Janetzke, Marjorie H. Ironing board cover. 3,636,644, 1-25-72, Cl. 38-140.
- Jania, Zbigniew J., to Ford Motor Company. Hydraulic power supply. 3,640,301, 2-8-72, Cl. 137-101.
- Jania, Zbigniew J. Speed control system for an automotive vehicle. 3,648,798, 3-14-72, Cl. 180-105.
- Jania, Zbigniew J.; and Vanderberg, Lawrence J., to Ford Motor Company. Electronic control system for antiskid vehicle brakes. 3,671,081, 6-20-72, Cl. 303-21,00e.
- Jania, Zbigniew J., to Ford Motor Company. Skid control apparatus for vehicle brake system. 3,679,270, 7-25-72, Cl. 303-21,00f.
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- Janiak, Stefan, to Ciba Limited. 2,4-Dinitro-6-alkyl phenyl-cyclopropionates. 3,673,237, 6-27-72, Cl. 260-468,00p.
- Janiak, Stefan; and Rohr, Otto, to Ciba-Geigy AG. Use of arylureas in combating weeds in cotton plantations. 3,705,028, 12-5-72, Cl. 71-120,000.
- Janieck, Mark A. Aquarium platform. 3,699,921, 10-24-72, Cl. 119-5.

- Janich, Hans Jurgen, to Polysius AG. Air sifter. 3,656,618, 4-18-72, Cl. 209-139.
- Janich, Hans Jurgen, to Polysius G.m.b.H. Apparatus for purifying dust loaded waste gases. 3,672,502, 6-27-72, Cl. 209-144.000.
- Janicke, Joseph A. Package for a plurality of articles. 3,669,257, 6-13-72, Cl. 206-65.000.
- Janin, Raymond: *See—*
- Batigne, Daniel; Boichard, Jacques; Gay, Michel; and Janin, Raymond, 3,639,416.
- Boichard, Jacques; Brossard, Bernard; Gay, Michel; and Janin, Raymond, 3,660,481.
- Boichard, Jacques; Brossard, Bernard; Gay, Michel; and Janin, Raymond, 3,661,988.
- Janin, Raymond Marc Clement: *See—*
- Boichard, Jacques; Brossard, Bernard Pierre; Duroux, Jacques Marius; and Janin, Raymond Marc Clement, 3,651,135.
- Janis, Irwin R., to Fairchild Camera and Instrument Corporation. Keyboard controlled electrical code-signal generator system. 3,662,382, 5-9-72, Cl. 340-365.
- Janis, Robert Gerald: *See—*
- Kehl, Lawrence Joseph; Triner, Irvin Richard; and Janis, Robert Gerald, 3,683,150.
- Janisch, Douglas G., to Tecumseh Products Company. Ignition circuit. 3,646,667, 3-7-72, Cl. 29-593.
- Janisch, Ingo; and Fleissner, Heinz, to Vepa A.G. Process and apparatus for the wet treatment of expanded textile material lengths. 3,700,404, 10-24-72, Cl. 88-158.000.
- Janiszewski, Kasimir. Method and apparatus for severing cylindrical stock. 3,659,764, 5-2-72, Cl. 225-2.000.
- Janiz, Zbigniew J.: *See—*
- Berry, James I.; and Janiz, Zbigniew J., 3,668,524.
- Jank, Reinhard, to U.S. Philips Corporation, mesne. Apparatus with an oscillating armature motor. 3,679,921, 7-25-72, Cl. 310-37.000.
- Janke, Bernhard: *See—*
- Frach, Werner; and Janke, Bernhard, 3,660,937.
- Janke, Donald E., to Whirlpool Corporation. Digital dryer control circuit. 3,702,030, 11-7-72, Cl. 34-33.000.
- Janke, Gilbert J.: *See—*
- Blower, Warren A.; Janke, Gilbert J.; and Abraham, Edward D., 3,682,230.
- Jankelson, Bernard. Adjustable headband carrying electrodes for electrically stimulating the facial and mandibular nerves. 3,659,614, 5-2-72, Cl. 128-410.
- Jankowiak, Erwin M.: *See—*
- Kott, Alan C.; Jankowiak, Erwin M.; and Lane, George A., 3,704,187.
- Jankowski, Alfons; Glaesmann, Otto-Ernst; and Haake, Gerhard, to Bergwerksverband GmbH. Method for reinforcing loose rock and coal. 3,698,196, 10-17-72, Cl. 61-45.00b.
- Jankowski, Alfons; and Schuermann, Fritz, to Bergwerksverband GmbH. Cartridge for fixing anchor elements in holes of a support structure. 3,705,646, 12-12-72, Cl. 206-47.00a.
- Janku, Milos: *See—*
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- Jannett, Frederick Joseph; and Mracek, Jaroslav, to Western Electric Company, Incorporated. Method for handling and maintaining the orientation of a matrix of miniature electrical devices. 3,681,139, 8-1-72, Cl. 156-344.000.
- Janney, Gareth M., to Hughes Aircraft Company. Diffraction grating coupled laser ring resonators. 3,691,477, 9-12-72, Cl. 331-94.500.
- Janning, John L., to National Cash Register Company, The. Plasma display panel having display and counter conductors on one plate. 3,652,891, 3-28-72, Cl. 313-109.5.
- Jannink, Franciscus A.: *See—*
- Hron, Roland L.; and Jannink, Franciscus A., 3,671,169.
- Jannuzzi, Frank, Sr. Above-the-ground swimming pool. 3,665,524, 5-30-72, Cl. 4-172.190.
- Janome Sewing Machine Co., Ltd.: *See—*
- Hanyu, Susumu, 3,641,957.
- Hanyu, Susumu; and Kasuga, Noboru, 3,643,612.
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- Kasuga, Noboru, 3,693,563.
- Miura, Ataka, 3,654,536.
- Janosi, Francis L., to Ford Motor Company. Variable ratio brake pedal. 3,646,831, 3-7-72, Cl. 74-518.
- Janosi, Francis L., to Ford Motor Company. Variable ratio brake pedal. 3,678,779, 7-25-72, Cl. 74-516.000.
- Janoski, Edward J.: *See—*
- Moore, Robert E.; and Janoski, Edward J., 3,641,167.
- Janostik, Jaroslav: *See—*
- Chvala, Bretislav; Janostik, Jaroslav; Mares, Jindrich; and Jerabek, Jan, 3,683,644.
- Janousch, Erwin: *See—*
- Gossel, Hartmut; Merkle, Kurt; Memmel, Ferdinand; and Janousch, Erwin, 3,684,542.
- Janovjak, Paul: *See—*
- Bestenreiner, Friedrich; Weiershausen, Walter; and Janovjak, Paul, 3,698,810.
- Janowak, John F.: *See—*
- Ryntz, Edward F., Jr.; Janowak, John F.; and Watton, John F., 3,670,558.
- Jansch, Frantisek J.: *See—*
- Hinze, Horst; and Jansch, Frantisek J., 3,693,352.
- Jansen, Charles L., Jr., to United States Gypsum Company. Building assembly and components. 3,707,060, 12-26-72, Cl. 52-241.000.
- Jansen, Constant Gijsbertus Johannes; Compaa, Klaas; and Vencma, Albertus, to U.S. Philips Corporation. Device having an electric discharge tube comprising a field emission cathode, and discharge tube destined for such a device. 3,688,151, 8-29-72, Cl. 31-348.000.
- Jansen, Francis J.: *See—*
- Reynolds, Robert W.; Bibeau, James K.; and Jansen, Francis J., 3,669,072.
- Jansen, Georg: *See—*
- Geisler, Roland; Jansen, Georg; and Germscheid, Hans Gunther, 3,687,858.
- Jansen, George, Jr., to United States of America, Atomic Energy Commission. Nuclear reactor incorporating means for preventing molten fuel from breaching the containment vessel thereof in the event of a core. 3,702,802, 11-14-72, Cl. 176-38.000.
- Jansen, Gert; and Clauson-Kaas, Niels, to Ciba-Geigy Corporation. Process for the production of salts of 5-formyl-furan-2-sulphonic acid. 3,696,125, 10-3-72, Cl. 260-347.200.
- Jansen, Gunter; and Kling, Hans, to Goetzwerke Friedrich Goetze A.G. Method and apparatus for testing resilient objects for flaws. 3,656,341, 4-18-72, Cl. 73-104.000.
- Jansen, Hansjorg; Wildi, Paul; and Kline, James A., to Gulf Oil Corporation. Forming coil. 3,643,480, 2-22-72, Cl. 72-56.
- Jansen, Heinz: *See—*
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- Jansen, James M., Jr., to United States of America, Atomic Energy Commission. Computer interface. 3,656,116, 4-11-72, Cl. 340-172.5.
- Jansen, Karl, to Austin Company, The. Automatic molding apparatus and mold-making machine therein. 3,654,986, 4-11-72, Cl. 164-173.
- Jansen, Robert A., to Westinghouse Electric Corporation. Shelf and liner assembly. 3,669,520, 6-13-72, Cl. 312-351.000.
- Jansen, Robert A., to Westinghouse Electric Corporation. Refrigerator cabinet structure. 3,684,342, 8-15-72, Cl. 312-214.000.
- Jansen Th., G.m.b.H.: *See—*
- Baum, Heinz, 3,669,405.
- Jansky, Joel W.: *See—*
- Alessi, Patrick A.; and Jansky, Joel W., 3,650,038.
- Janson, Alfons; Poschmann, Franz; and Wittmann, Georg, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Bleaching of wood pulp with dithionite solution stabilized by zinc compound. 3,653,804, 4-4-72, Cl. 8-110.
- Janson, Harry W., to Hoyt Manufacturing Corporation. Solvent reclaimers controls. 3,676,937, 7-18-72, Cl. 34-46.000.
- Janson, Jan, to U.S. Philips Corporation. Commutatorless direct current motor. 3,644,765, 2-22-72, Cl. 310-68.
- Janson, Stig; and Janson, Ulf Stig. Milking installation for cow stables. 3,683,856, 8-15-72, Cl. 119-14.110.
- Janson, Ulf Stig: *See—*
- Janson, Stig; and Janson, Ulf Stig, 3,683,856.
- Jansse, Leonard: *See—*
- De Blok, Jan F.; and Jansse, Leonard, 3,702,151.
- Janssen, Casper Johannes Gerardus Ferdinand: *See—*
- Jonker, Hendrik; Janssen, Casper Johannes Gerardus Ferdinand; and Postma, Lambertus, 3,674,485.
- Janssen, Casper Johannes Gerardus Ferdinand; Jonker, Hendrik; and Thijssens, Theodorus Petrus Gerardus Wilhelm, to U.S. Philips Corporation. Method of providing a printed circuit on a coherent memory plate having store and switching elements. 3,634,168, 1-1-72, Cl. 156-272.
- Janssen, Donovan M.; and Meyer, Clarence G., to International Business Machines Corporation. Cartridge lock actuator. 3,679,283, 7-25-72, Cl. 312-319.000.
- Janssen, Eduard Josef Philomena: *See—*
- Notelteirs, Victor Rosalie; and Janssen, Eduard Josef Philomena, 3,678,319.
- Janssen, Edward W., to Minnesota Mining and Manufacturing Company. Adhesive fixture. 3,637,181, 1-25-72, Cl. 248-205.
- Janssen, Elizabeth Charlotte: *See—*
- Schmidt, Ernst G. F. H.; Walkowsky, Bernhard; Grote, Wilfried Christoph; and Janssen, Matthias, 3,695,167.
- Janssen, Frits Jacques, to U.S. Philips Corporation. Apparatus for electro-medical investigation. 3,650,264, 3-21-72, Cl. 128-2.06.
- Janssen, Gail E.; and Wildenberg, Henry N., to Badger Northland, Inc. Collapsible liner for silo chute. 3,699,732, 10-24-72, Cl. 52-195.000.
- Janssen, Hans-Georg, to Aktiengesellschaft "Weser". Marine towing device. 3,667,418, 6-6-72, Cl. 114-235.00a.
- Janssen, Heinrich: *See—*
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- Janssen, Herman W., to Dresser Industries, Inc. Dual focused log having alternately energized focusing apparatus herein. 3,660,755, 5-2-72, Cl. 324-10.
- Janssen, Hermann W.; and Mooring, James F., to Dresser Industries, Inc. Dual detector compensated density wall logging system. 3,701,902, 10-31-72, Cl. 250-83.30r.
- Janssen, Jerry F.: *See—*
- Hedler, Robert A.; and Janssen, Jerry F., 3,658,530.
- Janssen, Joannes Franciscus Maria: *See—*
- Van Esdonk, Johannes; and Janssen, Joannes Franciscus Maria, 3,665,238.
- Janssen, Lutz Joachim: *See—*
- Morchen, Wolfgang; Hucho, Wolf Heinrich; and Janssen, Lutz Joachim, 3,638,551.
- Janssen, Matthias: *See—*
- Schmidt, Ernst G. F. H.; Walkowsky, Bernhard; Grote, Wilfried Christoph; and Janssen, Matthias, 3,695,167.
- Janssen, Peter Johannes Gubertus, to U.S. Philips Corporation. Circuit arrangement for supplying EHT to the acceleration anode of a picture display tube. 3,702,414, 11-7-72, Cl. 315-29.000.
- Janssen, Peter Johannes Hubertus: *See—*
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- Soudyn, Willem; and Van Wijngaarden, Ineke, 3,646,207.
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- Wetzel, Rolf Emil; and Janssen, Willi, 3,647,417.
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- Leboutet, Hubert; Jaouen, Jean; and Aucoeur, Jeanne, 3,660,658.
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- Richard, Pierre, 3,646,653.
- Japan Aircraft Manufacturing Company Limited: *See—*
- Takahashi, Senji, 3,699,810.
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- Fujimura, Tsutomu; Kamata, Hiroshi; Yamaguchi, Tomio; and Fukue, Hisanobu, 3,636,441.
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- Kinbara, Setsuro; and Kumahara, Tadashi, 3,676,783.
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- Nakase, Yoshiaki; Yoshida, Masaru; Ito, Akihiko; Iwai, Tadashi; Hayashi, Koichiro; Okamura, Seizo; and Kojima, Katsumi, 3,703,454.
- Sakurada, Ichiro; and Okada, Toshio, 3,649,494.
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- Tabata, Yoneho; and Oizumi, Chihoro, 3,679,562.
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- Takehisa, Masaaki; Senrui, Shiro; and Nakajima, Hayato, 3,676,419.
- Japan Bicycle Promotion Institute: *See—*
- Hasegawa, Kazuaki; and Nozaki, Kanzo, 3,631,577.
- Japan Business Automation Co., Ltd.: *See—*
- Oya, Tsutomu; and Ebine, Kiyoshi, 3,665,435.
- Japan Chemurgy Co., Ltd.: *See—*
- Hara, Kazuo; Samoto, Mistunobu; Sawai, Masanobu; and Nakamura, Shiro, 3,704,168.
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- Endo, Kumaji; Ebisawa, Fumio; and Muratani, Masao, 3,643,850.
- Japan Electro Plating Company: *See—*
- Fukanuma, Hirotaka; Fujita, Kenji; and Kashiura, Kenji, 3,658,663.
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- Kuratani, Keiji; and Fukushima, Keitaro, 3,701,820.
- Nakagawa, Kazumi; and Shimoda, Keitaro, 3,644,609.
- Shimoda, Keitaro; Tsutsui, Nobuhiro; Sekiguchi, Hideto; and Sone, Masao, 3,673,053.
- Shimosaka, Yukio; Ueda, Sumimichi; and Nakajima, Shigeru, 3,658,767.
- Takeya, Kenji; Uno, Yoshihiro; and Yamane, Akira, 3,637,611.
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- Japan Furnace Industry Co., Ltd.: *See—*
- Miyazaki, Shuzo, 3,672,808.
- Japan Gas-Chemical Company, Inc.: *See—*
- Asakawa, Kazuo; and Narita, Kaoru, 3,697,546.
- Ayano, Satoshi; and Yabe, Seizo, 3,660,536.
- Fujiyama, Susumu; and Kosuge, Fumisada, 3,644,553.
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Huang, Ching Yun; Ueno, Kazuo; and Masawaki, Keizo, 3,683,044.
Ikarasi, Takeo, 3,646,131.
Suzuki, Takashi; and Iesaka, Hiroyuki, 3,636,177.
Suzuki, Takashi; and Iesaka, Hiroyuki, 3,652,700.
Tanigaki, Teichi, 3,635,897.
Tsuboi, Yukio; Ueda, Yoshio; Ota, Tazuo; and Yoneoka, Mikio, 3,647,054.
Japan Medical Supply Co., Ltd.: *See*—
Yokoyama, Kousou, 3,662,752.
Japan Metals and Chemicals Company Limited: *See*—
Tanabe, Isao, 3,647,375.
Japan Monopoly Corporation, The: *See*—
Abe, Isao; Hirose, Tatsuo; and Ohshima, Kotaro, 3,699,976.
Higase, Shiro, 3,706,546.
Japan Radio Company, Limited: *See*—
Ogawa, Juro; and Fujimoto, Yoshiaki, 3,679,976.
Okino, Mutsuo, 3,683,403.
Japan Spectroscopic Co., Ltd.: *See*—
Hiragaki, Shigehiro; and Mochida, Yoshihiro, 3,679,309.
Japan Steel Works, Ltd.: *See*—
Kobayashi, Sakae; Hori, Hiroshi; and Matsunaga, Toshio, 3,695,527.
Miyan, Kato; and Shimazaki, Masahide, 3,673,007.
Taki, Toshio; and Matsunaga, Toshio, 3,695,528.
Japan Synthetic Rubber Co., Ltd.: *See*—
Chikatsu, Tatsusuke; Shimokawa, Shinichi; Yoshida, Yoshinori; Imamura, Masatugu; Nishiwaki, Ituo; Akimoto, Toshio; and Fujiwara, Tatsuji, 3,692,861.
Harada, Tetsuya; Fuzinami, Nobuo; Hasegawa, Koichi; and Shibata, Akira, 3,656,980.
Komatsu, Koki; Okuya, Eitaro; Tomioka, Katsuyoshi; Sakai, Masato; Hayashi, Shigeki; Yasunaga, Hidetoshi; and Kogure, Akira, 3,669,943.
Onchi, Kotaro, 3,660,324.
Umeno, Masashi; Yabuta, Shiro; and Nishida, Takashi, 3,638,230.
Japanese Geon Company, Ltd., The: *See*—
Akiyama, Shinichi; Minami, Shoichiro; and Toyoda, Akinobu, 3,646,127.
Akiyama, Shinichi; and Minami, Shoichiro, 3,649,684.
Fukui, Toshio, 3,687,925.
Hasegawa, Hiroaki; Kasai, Kouhei; Namizuka, Toshio; and Moriguchi, Katsuo, 3,684,785.
Hiroshi, Horino; and Masato, Matsuo, 3,694,525.
Iida, Eiichi; Komatsubara, Tsuneco; Ueno, Sadao; Takeuchi, Soichiro; Matui, Etuo; and Sano, Toshio, 3,654,248.
Ito, Yoshio; Smiyama, Shinichi; Toyoda, Akinobu; and Minami, Shoichiro, 3,686,294.
Kawahara, Testuyo, 3,660,525.
Komuro, Keiji; Inagami, Masaaki; and Saito, Yoshiomi, 3,639,651.
Komuro, Keiji; Inagami, Masaaki; and Fukuda, Hideo, 3,657,393.
Matsuo, Toshiaki; Chono, Koji; Go, Tadahiho; and Komai, Hirotaka, 3,705,880.
Sakuragi, Taketami; and Akiyama, Shinichi, 3,681,414.
Sugimoto, Katsumi; and Fukui, Sachio, 3,639,512.
Tanaka, Akira; Hattori, Tsuyoshi; Anno, Hirotomo; and Kawahara, Testuyo, 3,673,283.
Japanese National Railways: *See*—
Murato, Kenichi; Takei, Kenji; and Takayama, Masayuki, 3,646,891.
Takahashi, Kensaku; and Yoshida, Kenichi, 3,694,751.
Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,652,345.
Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,652,346.
Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,658,605.
Japs, Archie B.: *See*—
Murphy, Walter T.; and Japs, Archie B., 3,701,681.
Jaquette, Robert D., to Air-Way Manufacturing Company. O-ring mounting machine. 3,665,578, 5-30-72, Cl. 29-211.
Jaquish, John, to Trans-World Display Corporation. Multiple size package display and dispenser. 3,674,175, 7-4-72, Cl. 221-92,000.
Jar, Stig: *See*—
Apelstrand, Lennart; Goteborg, Fagerlund; and Jar, Stig, 3,687,308.
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Mabrouk, Ahmed F.; and Jarboe, Jerry K., 3,634,097.
Jarczyk, Heinrich, to Fernsch G.m.b.H. Luminescent screen and method of making the same. 3,637,413, 1-25-72, Cl. 117-33.5.
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Jarema, John R.: *See*—
Harmer, David E.; Jarema, John R.; and Leng, Douglas E., 3,697,351.
Jarger, Harold F., to International Telephone and Telegraph Corporation. FM demodulator system. 3,657,661, 4-18-72, Cl. 329-122.
Jargiello, Paul Andrew, to Ittek Corporation. Photographic process comprising improved dye bleaching step. 3,634,263, 1-11-72, Cl. 252-102.
Jarke, Ernst H., III: *See*—
Webster, Ranson W., Jr.; and Jarke, Ernst H., III, 3,666,936.
Jarleborg, Martin Holger: *See*—
Hallstrom, Ingemar Gustaf Terje; Jarleborg, Martin Holger; and Tarnblom, Stig-Goran Harry, 3,674,570.
Jarleborg, Martin Holger, to Fagersta Bruks Aktiebolag. Case-hardened steel product and process for its manufacture. 3,661,656, 5-9-72, Cl. 148-12.1.
Jarmalov, Benjamin, to Saxton Products, Inc. Pay-out container for spooled wire and analogous elongated elements. 3,680,810, 8-1-72, Cl. 242-171,000.
Jarman, Alonzo B.: *See*—
Mayer, Gerald C.; Vaka, Gregory A.; Zuckermann, Raymond S.; and Jarman, Alonzo B., 3,701,414.
Jarman, David J. Shear discharge conveying system. 3,670,611, 6-20-72, Cl. 83-81,000.
Jarmar, Sven O., to Sveriges Radio Aktiebolag. Illumination arrangement for recording and/or reproduction in color. 3,644,785, 2-22-72, Cl. 315-298.
Jarmy, Howard I., to Singer-General Precision, Inc. Film transport and film positioning device. 3,650,448, 3-21-72, Cl. 226-45.
Jarnagin, Max L.: *See*—
Sosalla, Harry; Meusburger, Lyle M.; and Jarnagin, Max L., 3,700,040.
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Jarolim, Vaclav: *See*—
Hejno, Karel; Jarolim, Vaclav; Slama, Karel; and Sorm, Frantisek, 3,636,018.
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Jarren, Bert. Universal coupling. 3,633,384, 1-11-72, Cl. 64-31.
Jarret, Jacques: *See*—
Jarret, Jean; and Jarret, Jacques, 3,687,440.
Jarret, Jean; and Jarret, Jacques, to Societe d'Exploitation des Reservoirs Auto-Amortisseurs. Elastomer damping spring. 3,687,440, 8-29-72, Cl. 267-141,000.
Jarrett, Earl K., to Clayton Specialties, Inc. Trigger assembly for article conveying machine. 3,697,710, 10-10-72, Cl. 200-61,410.
Jarrett, James H.: *See*—
Berg, Lloyd; and Jarrett, James H., 3,637,823.
Jarrett, James Harold: *See*—
Wolder, Ernest Harold; and Jarrett, James Harold, 3,664,271.
Jarrett, Steven M.: *See*—
Barker, Gerald C.; and Jarrett, Steven M., 3,646,476.
Jarrett, William F. H.: *See*—

- Jennings, Francis W.; Mulligan, William; Urquart, George M.; McIntyre, William I.; and Jarrett, William F. H., 3,657,415.
Jarusik, Paul; and Pociluyko, Alexander, to Scott Paper Company. Holding device and diaper system utilizing such device. 3,693,621, 9-26-72, Cl. 128-287,000.
Jaruzelski, John J.: *See*—
Makowski, Henry S.; Lynn, Merrill; and Jaruzelski, John J., 3,652,732.
Jarva, Inc.: *See*—
Pine, Marmon, 3,707,330.
Scaravilli, Joseph V., 3,674,314.
Jarvela, Gary N.; and Pyle, Loren L., to Motorola, Inc. Fixed gradient liquid epitaxy apparatus. 3,631,836, 1-4-72, Cl. 118-415.
Jarvela, Gary Nicholas; and Klink, Howard Nassime, to Motorola, Inc. Apparatus for providing epitaxial layers on a substrate. 3,690,290, 9-12-72, Cl. 118-48,000.
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Jarvi, Robert E.: *See*—
Charvat, Vernon K.; and Jarvi, Robert E., 3,689,118.
Jarvik, Robert K. Repeating ligature gun. 3,687,138, 8-29-72, Cl. 128-326,000.
Jarvis Corporation: *See*—
Chamberlain, Harold F., 3,634,908.
Jarvis, Harold: *See*—
Maclean, Peter M.; Shaw, Leslie E.; and Jarvis, Harold, 3,687,765.
Jarvis, James G.: *See*—
Piper, Douglas E.; Jarvis, James G.; and Smith, Dale L., 3,654,893.
Jarvis, James G., to Eastman Kodak Company. Gas-cushion corona charger. 3,646,351, 2-29-72, Cl. 250-49.5.
Jarvis, James G., to Eastman Kodak Company. Xerothermographic process. 3,673,961, 7-4-72, Cl. 101-465,000.
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Jarvis, Richard L.; and Kully, Walter, to American Aviation Corporation. Airplane tooling. 3,669,807, 6-13-72, Cl. 156-581,000.
Jarvis, Richard L.; and Kully, Walter. Airplane tooling. 3,669,811, 6-13-72, Cl. 156-583,000.
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Jaschiski, Klemens: *See*—
Zirngibl, Hans; Jaschiski, Klemens; Brandl, Karl; Beumer, Peter; and Weidmann, Walter, 3,681,895.
Jaseph, Lawrence Flower, to Dover Corporation. Safety system for hydraulic elevators. 3,647,027, 3-7-72, Cl. 187-73.
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Jasinski, Leon: *See*—
Bogut, Henry A.; and Jasinski, Leon, 3,667,026.
Jasinski, Stephen: *See*—
Barone, Antonio C.; and Jasinski, Stephen, 3,703,046.
Jasinski, Victor; and Stone, Raymond A., to Standard Brands Chemical Industries, Inc. Reaction product of a vinyl ester and polypropylene. 3,642,952, 2-15-72, Cl. 260-878.
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Jason, Alfred Charles: *See*—
Lees, Alexander; Richards, John Charles Shenstone; and Jason, Alfred Charles, 3,665,302.
Jason, Joseph B.: *See*—
Fogle, William A., Jr.; Jason, Joseph B.; and Head, Richard A., 3,677,173.
Jason, Robert C.: *See*—
Kiley, John S.; and Jason, Robert C., 3,688,617.
Jasper Corporation, The: *See*—
Slaats, Mathew A., 3,633,593.
Jasper Electronic Mfg. Corporation: *See*—
Welsh, Alan B.; and West, Roger T., 3,663,114.
Jasper, Lane; and Brassner, Joseph L. Bending machine. 3,691,807, 9-19-72, Cl. 72-146,000.
Jasper, Leslie L.: *See*—
Evans, John S., Jr.; and Jasper, Leslie L., 3,690,487.
Jasper, Louis J., Jr., to United States of America, Army. Traveling wave tube. 3,654,565, 4-4-72, Cl. 330-43.
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Gerritsen, Hans G.; Hansma, Hendrik; and Jaspers, Hans, 3,636,137.
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Verot, Jean-Louis; and Jaumier, Jean-Jacques, 3,658,714.
Jaun, Rudolph: *See*—
Bulat, John Ivan; and Jaun, Rudolph, 3,647,092.
Jaupain, Maurice: *See*—
Brichard, Edgar; Jaupain, Maurice; Plumet, Emile; and Deschepper, Pierre, 3,684,560.
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Viers, Jean-Charles; and Jaure, Robert Pierre, 3,702,212.
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Javellaud, Jean: *See*—
Blattmann, Henri; Javellaud, Jean; and Yerouchaimi, David, 3,660,701.
Blattmann, Henri; Javellaud, Jean; and Yerouchaimi, David, 3,686,519.
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Malandro, George H.; and White, Peter, 3,676,849.
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Wollney, John L.; Jawor, Ronald W.; and Sanders, Norman L., 3,646,680.
Jaworek, Dieter, to Boehringer Mannheim G.m.b.H. Thin layer chromatography coating device. 3,707,137, 12-26-72, Cl. 118-415,000.
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Glass, Marvin I.; Breslow, Jeffrey D.; and Jaworski, Eugene, 3,664,670.
Jaxheimer, William W.: *See*—
Misarek, Joseph; and Jaxheimer, William W., 3,668,839.
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Davis, Earl K.; Hansen, Kent W.; and Jayachandra, Yaemmanur, 3,654,505.
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Desai, Nalin Binduprasad; Jayaraman, Ponnusami; Ramanathan, Visvanathan; Artz, Klaus; Naik, Navnitrai Nagarji; and Jenny, Walter, 3,679,657.
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Elliott, John Scotchford; Edwards, Eric Descamp; and Jayne, Gerald John Joseph, 3,632,613.
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Cleveland, Richard E.; Fisher, Jack M.; Glaze, Jack G.; and Jeakle, William G., 3,650,349.
- Jean, Robert: *See—*
Richard, Norman; Jean, Robert; Huh, William; and Patton, Willard Thomas, 3,698,000.
- Jean, Roger: *See—*
Gandon, Louis; Jean, Roger; and Lenoble, Philippe, 3,656,937.
Gandon, Louis; Jean, Roger; and Lenoble, Philippe, 3,656,940.
Michel, Francis; Gandon, Louis; Jean, Roger; and Fer, Pierre, 3,660,026.
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- Jeannotat, Etienne: *See—*
Cachelin, Gerard; and Jeannotat, Etienne, 3,659,383.
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Dunn, Roger S.; Canning, Michael Leo; and Jeansonne, Gerald E., 3,634,833.
- Jeansonne, Gerald Embry: *See—*
Canning, Michael Leo; Dunn, Roger Stanley; and Jeansonne, Gerald Embry, 3,641,661.
- Jebas, Jiri: *See—*
Smitmajer, Zdenek; Blaskovits, Pavel; Krajmer, Anton; and Jebas, Jiri, 3,666,909.
- Jecht, Ulrich: *See—*
Politycki, Alfred; Jecht, Ulrich; and Gullasch, Jurgen, 3,659,098.
- Jeckel, Guenter: *See—*
Guenther, Wolfgang; and Jeckel, Guenter, 3,631,883.
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Jeffers, William D., 3,682,130.
- Jeffers, Andrew R. High contrast display device. 3,682,531, 8-8-72, Cl. 350-156.000.
- Jeffers, James E., to Hoerner Waldorf Corporation. Protective corner pad. 3,655,112, 4-11-72, Cl. 229-14.
- Jeffers, Lonnie R.: *See—*
Tipton, Damon F.; and Jeffers, Lonnie R., 3,707,157.
- Jeffers, Michael F., to Jerrold Electronics Corporation. Maximum channel utilization using single ended amplifiers in a frequency band greater than one octave. 3,665,316, 5-23-72, Cl. 325-308.
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Bentley, Floyd Edward; and Godfrey, Norman Bell, 3,639,928.
Burns, Simon Pierce, 3,655,784.
Cuscurida, Michael, 3,705,132.
Edwards, Gayle Dameron; and Moss, Philip Hotchkiss, 3,681,456.
Godfrey, Norman Bell, 3,666,721.
Kennedy, William Alvis, 3,661,808.
Klein, Howard Paul; Schulze, Heinz; and Speranza, George Philip, 3,654,183.
Lesesne, Sherman D.; and Speranza, George P., 3,645,945.
Lichtenwalter, Myrl; and Yeakey, Ernest Leon, 3,692,789.
Lloyd, Rodney Frederick; and Cuscurida, Michael, 3,706,714.
Malkemus, John D.; and Bell, John B., 3,703,538.
Milligan, John G., 3,639,262.
Moss, Philip H.; and Cuscurida, Michael, 3,655,590.
Muhlbaue, Herbert George, 3,639,403.
Rice, Doris Marvin, 3,632,707.
Rowton, Richard Lee, 3,666,788.
Schulze, Heinz, 3,642,911.
Speranza, George P.; and Cuscurida, Michael, 3,645,925.
Tomomatsu, Hideo, 3,679,723.
Watts, Lewis William; and Moss, Philip H., 3,699,177.
Yeakey, Ernest L., 3,654,370.
Yeakey, Ernest Leon, 3,660,319.
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Berkeley, Arnold D.; Bold, Eugene W.; Jefferson, Donald E.; and Zeller, Gerard A., 3,701,972.
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Salyer, Ival O.; and Jefferson, Robert T., 3,647,721.
Salyer, Ival O.; and Jefferson, Robert T., 3,694,385.
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Henry, Cyrus P., Jr.; and Jeffrey, John R., 3,658,542.
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- Jeffrey, Robert D.: *See—*
Jeffrey, Lawrence W.; and Jeffrey, Robert D., 3,649,010.
- Jeffreys, George A. Live latic acid bacteria cultures and process of producing same. 3,677,897, 7-18-72, Cl. 195-55.000.
- Jeffreys, Kerry David: *See—*
Evans, Edward Michael; and Jeffreys, Kerry David, 3,655,609.

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- Jeffreys, Lyman W., to Armsted Industries Incorporated. Top block shift. 3,646,991, 3-7-72, Cl. 164-342.
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- Jeffries, David: *See—*
Swain, James Bert; and Jeffries, David, 3,689,154.
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- Jeffries, Neal P.: *See—*
Zerkle, Ronald D., 3,664,412.
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Wehrli, Hansuli; and Jeger, Oskar, 3,706,737.
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Libby, Richard L.; Moseley, Robin C.; Jehl, Thomas G.; Rug-giello, William A.; and Dunn, J. Stewart, 3,656,131.
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Petroopoulos, Spyros K.; Jehle, Robert E.; and Halberstam, Mendel M., 3,641,350.
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Bain, Orville J.; and Jelinek, Jerry G., 3,635,480.
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Jellinek, Frank J., 3,654,731.
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Sersale, Riccardo; Franco, Enrico; Jello, Rosario; and Colella, Carmine, 3,694,152.
- Jelsvik, Ronald E.: *See—*
Christopher, Paul G.; and Jelsvik, Ronald E., 3,692,351.
- Jemison, Lawrence L., Jr.: *See—*
Bowman, Karl R.; Jemison, Lawrence L., Jr.; and Parker, Orval H., 3,692,387.
- Jemseby, Anton Wilhelm. Screens for producing a printing plate for image reproduction. 3,634,092, 1-11-72, Cl. 96-116.
- Jen, Teh-Sen: *See—*
Beausoleil, William F.; Ho, Irving T.; Jen, Teh-Sen; and Pricer, W. David, 3,697,962.
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Umbach, Hans; and Jena, Hans, 3,669,580.
- JENAer Glaswerk Schott & Gen.: *See—*
Faulstich, Marga; and Neuroth, Norbert, 3,687,697.
Geffcken, Walter; and Paquet, Volker, 3,690,932.
Petzold, Jurgen; and Scheidler, Herwig, 3,642,504.
Sack, Werner, 3,672,919.
- Jendrisak, Joseph E.: *See—*
Chase, William B.; Jendrisak, Joseph E.; and Kelvey, Harold E., 3,692,015.
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- Jendrychowska-Bonamour, Anna-Maria: *See—*
Chapiro, Adolphe; and Jendrychowska-Bonamour, Anna-Maria, 3,666,693.
- Jeney, George K.: *See—*
Scheublein, William A.; Fister, Louis P.; Fitch, Lawrence H.; and Jeney, George K., 3,658,312.
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Herbenar, Edward J.; and Jenio, Sam, 3,707,094.
- Jenkin, Keith R., to Speedring Corporation. Hydrostatic air bearing. 3,639,791, 2-1-72, Cl. 310-90.
- Jenkins, Anthony; and Cornell, Richard Charles, to Analytical Instruments Limited. Method and apparatus for detecting tracer gas. 3,699,342, 10-17-72, Cl. 250-83.6ft.
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Connors, John A.; Liepelt, Donald W.; and Baulieu, William H., 3,692,276.
- Jenkins, Carlton G., to Sylvania Electric Products, Inc. Rectilinear feed apparatus. 3,684,145, 8-15-72, Cl. 226-173.000.
- Jenkins, Cecil: *See—*
Woolslayer, Homer J.; Woolslayer, Joseph R.; Jenkins, Cecil; and Campbell, Erwin A., 3,633,771.
Woolslayer, Homer J.; Woolslayer, Joseph R.; Jenkins, Cecil; and Campbell, Erwin A., 3,701,435.
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Berger, Julius; Epps, Richard H.; Jenkins, Edward M.; and Tabenkin, Benjamin, 3,663,373.
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Endter, Norman G.; and Jenkins, Frank J., 3,638,703.
- Jenkins, Hedley Brynmor: *See—*
Skelton, Leslie George Victor; Thomas, Godfrey Hunt; and Jenkins, Hedley Brynmor, 3,661,371.
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- Jenkins, Herndon: *See—*
Cale, Albert Duncan, Jr.; and Jenkins, Herndon, 3,660,426.
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Moose, Charles R., Jr.; and Jenkins, James L., 3,660,608.
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- Jenkins, John Paul, to Harris-Intertype Corporation. Delay loop tape cartridge. 3,645,539, 2-29-72, Cl. 274-4.
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Jenkins, Robert Bain, Jr., 3,685,099.
- Jenkins, Murgatroyd H.: *See—*
De Woskin, Irvin S.; and Jenkins, Murgatroyd H., 3,657,857.
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Charlesworth, Eric, 3,686,463.
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- Jenkins, Robert C. Lug template. 3,679,266, 7-25-72, Cl. 301-9.0dn.
- Jenkins, Robert E.: *See—*
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- Jenkins, Victor F.: *See—*
Fraser, James R.; and Jenkins, Victor F., 3,655,631.
- Jenkins, Victor F.; Newton, Geoffrey P.; and Beeken, Michael J., to Laporte Industries Limited. Polymerisation process. 3,682,865, 8-8-72, Cl. 260-75.0ep.
- Jenkins, William Alfred: *See—*
Bollard, David Rooksby; and Jenkins, William Alfred, 3,657,719.
- Jenkinson, Brian E.; Watson, Geoffrey W.; and Foister, Peter B., to Steelweld Limited. Friction-welding apparatus. 3,635,388, 1-18-72, Cl. 228-2.
- Jenkinson, Doris Audrey: *See—*
Carr-Brion, Kenneth Garfield; and Jenkinson, Doris Audrey, 3,666,943.
- Jenkinson, Frank Edward, to Patented Devices (Proprietary) Limited. Location of faults in cables. 3,701,927, 10-31-72, Cl. 317-16.000.
- Jenkinson, Richard D., to Union Carbide Corporation. Ethylene/acrylic acid copolymer emulsions. 3,677,989, 7-18-72, Cl. 260-29.60h.
- Jenkinson, Ronald J.: *See—*
Saxton, Arthur L.; and Jenkinson, Ronald J., 3,687,841.
- Jenkintown Metal Products, Inc.: *See—*
Barrett, Edmund, 3,667,756.
- Jenkner, Herbert: *See—*
Praetzel, Hans Eberhard; and Jenkner, Herbert, 3,660,321.
- Jenkner, Herbert; and Buttgens, Walter, to Chemische Fabrik Kalk GmbH. Method of preparing transparent products consisting largely of polyepibromohydrin. 3,636,163, 1-18-72, Cl. 260-615.
- Jenkner, Herbert; and Praetzel, Hans-Eberhard. Self-extinguishing, coloured moulded articles. 3,658,754, 4-25-72, Cl. 260-45.7.
- Jenks, Herbert R., to Dura Fiber, Inc. Method for making prestressed laminated fiber-glass structures. 3,641,230, 2-8-72, Cl. 264-152.
- Jenks, Theodore E.; and Bittner, Edward R., 1/2 each to Allied Chemical Corporation and Essex Chemical Corporation. Synthetic board inlaid with moisture-cure urethane and method therefor. 3,636,199, 1-18-72, Cl. 264-134.
- Jenn-Air Corporation: *See—*
Field, Thomas R., 3,651,750.
Zintel, James F., 3,664,082.
- Jenner, Myron. Closure device for food-containing bags and the like. 3,639,947, 2-8-72, Cl. 24-30.5.
- Jenner, Myron. Weather seal for building structures. 3,646,716, 3-7-72, Cl. 52-403.
- Jenner, Myron. Mounting arrangement for erected building modules. 3,653,169, 4-4-72, Cl. 52-296.
- Jenner, Myron. Connector structure for modular building assemblies. 3,653,698, 4-4-72, Cl. 287-189.36.
- Jenner, Myron. Gantry construction. 3,680,716, 8-1-72, Cl. 214-1.00h.
- Jenner, Myron. Electrical connections for modular building constructions. 3,689,867, 9-5-72, Cl. 339-97.00r.
- Jennes, Gert; Huther, Edmund; and Wolff, Willi, to Farbenfabriken Bayer Aktiengesellschaft. Elastomeric mixture of a benzene-soluble polychloroprene and a crosslinked chloroprene polymer. 3,692,875, 9-19-72, Cl. 260-890.000.
- Jenness, Raymond C., to Allis-Chalmers Manufacturing Company. Thrust bearing and mounting arrangement therefor. 3,667,819, 6-6-72, Cl. 308-135.
- Jenney, Deane K.: *See—*
Fulmer, Keith H.; and Jenney, Deane K., 3,665,957.
- Jenney, Earle Gifford: *See—*
Mosher, Frank Howard; and Jenney, Earle Gifford, 3,653,411.
- Jennings, Brian Edmund; Ludekens, William Louis Wallet; and Slater, Robert Edward, to Imperial Chemical Industries Limited. Ethylene-vinyl acetate copolymer latex prepared with acrylic seed. 3,642,680, 2-15-72, Cl. 260-29.6.
- Jennings, Brian Michael; and Ager, Johnwalter Albert, to Costain Concrete Company, Limited. Rail fastening assemblies for railroad tracks. 3,700,167, 10-24-72, Cl. 238-349.000.
- Jennings, Charles W., to Continental Can Company, Inc. Self-locking poultry box. 3,687,354, 8-29-72, Cl. 229-34.000.
- Jennings, Doris E. Back scrubber. 3,674,374, 7-4-72, Cl. 401-8.000.
- Jennings, Francis W.; Mulligan, William; Urquart, George M.; McIntyre, William I.; and Jarrett, William F. H., to University Court of the University of Glasgow. Canine hookworm vaccines. 3,657,415, 4-18-72, Cl. 424-88.
- Jennings, Frederick A. Corrosion-inhibiting tool box. 3,642,998, 2-15-72, Cl. 21-2.5.
- Jennings, George H. Fish alarm. 3,646,697, 3-7-72, Cl. 43-17.
- Jennings, George H. Continuous production of aluminium sulphate. 3,667,905, 6-6-72, Cl. 23-123.000.
- Jennings, George M.: *See—*
Buckman, Stanley J.; Lutey, Richard W.; and Jennings, George M., 3,639,209.
- Jennings, Irving C. Method of casting a diffuser element. 3,646,185, 2-29-72, Cl. 264-161.
- Jennings, John D.: *See—*
Anderson, Albin R.; and Jennings, John D., 3,691,720.
Anderson, Aldin R.; Jennings, John D.; and Killerby, Walter E., 3,696,986.
- Jennings, Kenneth J. Apparatus for storing and displaying carpet samples or the like. 3,633,759, 1-11-72, Cl. 211-45.
- Jennings, Lewis F.: *See—*
Bower, Kenneth W.; and Jennings, Lewis F., 3,702,417.
- Jennings, Lyston C., to General Signal Corporation. Pressure override for servo controlled pumps. 3,659,963, 5-2-72, Cl. 417-213.
- Jennings, Marvin D.: *See—*
Carlson, Ernest C.; Howells, Arthur J., Jr.; Jennings, Marvin D.; Eastman, Donald R.; and Sheets, Edward G., 3,698,580.
- Jennings, Paul H.: *See—*
Campbell, Donald J.; Heffner, William J.; Jennings, Paul H.; and King, Jane E., 3,665,487.
- Jennings, Peter H.: *See—*
Stanley, Robert W.; Ames, Horace L.; and Jennings, Peter H., 3,674,424.
- Jennings, Ralph L., to Economy Forms Corporation. Shore tower assembly. 3,650,078, 3-21-72, Cl. 52-122.
- Jennings, Ralph L., to Economy Forms Corporation. Release plate for a collapsible culvert form. 3,693,927, 9-26-72, Cl. 249-11.000.
- Jennings, Robert R., to Dow Chemical Company, The. Process for the secondary recovery of petroleum. 3,687,199, 8-29-72, Cl. 166-274.000.
- Jennings, Thomas A.; and McNeill, William, to United States of America, Army. Negative ion generator. 3,705,998, 12-12-72, Cl. 313-161.000.
- Jennings, Thomas C.: *See—*
Bergman, Kenneth C.; and Jennings, Thomas C., 3,639,319.
- Jennings, Thomas Charles, to Lubrizol Corporation, The. Sealing compositions containing phosphorus- and metal-containing anti-sag agents. 3,647,745, 3-7-72, Cl. 260-41.
- Jennings, Thomas Harold: *See—*
Thomason, James P.; and Jennings, Thomas Harold, 3,692,974.
- Jennings, Uel Duane, to Du Pont de Nemours, E. I., and Company. Process for winding a yarn package. 3,638,872, 2-1-72, Cl. 242-18.1.
- Jennings, Walter B., Jr., to United States of America, Army. Multi-rod single pump source laser. 3,701,048, 10-24-72, Cl. 331-94.500.
- Jennis, Murray, to Goodman, H., & Sons, Inc. Hinged barrettes. 3,705,591, 12-12-72, Cl. 132-48.00r.
- Jenny, Hanns; and Kieslinger, Georges, to Sandoz Ltd; a/k/a Sandoz AG. Process for the production of nonwoven fabrics containing binders. 3,707,395, 12-26-72, Cl. 117-33.50t.
- Jenny, Robert B., to McDonnell Douglas Corporation. Aircraft control system. 3,704,843, 12-5-72, Cl. 244-85.000.
- Jenny, Robert W., to Boeing Company, The. Landing gear gravel and water deflector. 3,670,996, 6-20-72, Cl. 244-103.
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Desai, Nalin Binduprasad; Jayaraman, Ponnusami; Ramanathan, Visvanathan; Artz, Klaus; Naik, Navnitrai Nagarji; and Jenny, Walter, 3,679,657.
Kubba, Ved Parkash; Ramanathan, Visvanathan; and Jenny, Walter, 3,663,529.
- Jenoptik Jena G.m.b.H.: *See—*
Beyer, Hermann; and Schoppe, Gunter, 3,637,280.
Dietrich, Hans; and Weisse, Peter, 3,631,594.
Hofmann, Christian; and Neumann, Jorg, 3,653,751.
Hofmann, Christian; and Neumann, Jorg, 3,679,294.
Huther, Gerhard; Roder, Rolf; and Schmidt, Ulrich, 3,704,954.
Maenz, Harald; and Risch, Gerhard, 3,702,216.
Trebitz, Doris; and Rumpoldin, Ernst, 3,701,588.
Zollner, Friedrich, 3,701,579.
- Jeno's, Inc.: *See—*
Cushman, Robert D., 3,659,507.
Schmitt, Justin M., 3,659,506.
- Jensen, Alan K.; and Desilets, Richard L., to Transaction Systems, Incorporated. Self clocking digital data systems employing data-comparison codes and error detection. 3,688,260, 8-29-72, Cl. 340-146.10r.
- Jensen, Andrew O.: *See—*
Campbell, Albert Evan, Jr.; and Jensen, Andrew O., 3,666,429.
- Jensen, Arne: *See—*
Thorsoe, Flemming; and Jensen, Arne, 3,646,365.

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- Jensen, Arne; and Petersen, Tom Kastrup, to Danfoss A/S. Control arrangement for a three phase with intermediate D.C. regulation. 3,691,439, 9-12-72, Cl. 318-227.000.
- Jensen, Arne, to Danfoss A/S. Control system for an alternating current motor. 3,700,989, 10-24-72, Cl. 318-227.000.
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Bushnell, Dwight J.; and Jensen, Billy M., 3,656,247.
Davis, Louis E.; Jensen, Billy M.; Larson, Floyd L.; Huck, Rainer F.; and Stumph, Stephen L., 3,670,386.
Romney, Russell H.; and Jensen, Billy M., 3,656,687.
- Jensen, Borge: *See—*
Jensen, Jorgen Bent; Jensen, Borge; Krohn, Rasmus; and Keldmann, Erik, 3,700,853.
- Jensen, Charles E.: *See—*
Johnson, Richard A.; Jensen, Charles E.; and Renskers, John O., 3,666,090.
- Jensen, Cornelius: *See—*
Rosenkranz, Otto; and Jensen, Cornelius, 3,637,025.
- Jensen, David R., to J/D Scientific. Multi-magnet magnetic toy. 3,706,158, 12-19-72, Cl. 46-236.000.
- Jensen, Donald F.: *See—*
Draughton, Roland C.; Jensen, Paul D.; and Jensen, Donald F., 3,664,792.
- Jensen, Donald F.; Rickenbach, David H.; and Schaffer, Robert R., to International Business Machines Corporation. Packaging system for pneumatic logic. 3,658,088, 4-25-72, Cl. 137-561.
- Jensen, Douglas S.: *See—*
Zbikowski, Theodore H.; Jensen, Douglas S.; and Pfeilsticker, Lee J., 3,653,147.
- Jensen, Douglas S., to Tonka Corporation. Toy vehicle cab assembly. 3,701,217, 10-31-72, Cl. 46-222.000.
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Williams, Leamon D.; and Jensen, Edward R., 3,666,511.
- Jensen, Edward R.; Long, John E.; and Williams, Leamon D., to CPC International Inc. Novel starch gels and process for making same. 3,666,557, 5-30-72, Cl. 127-32.
- Jensen, Einar W., to Eastman Kodak Company. Film processing apparatus for processing films of different type. 3,699,869, 10-24-72, Cl. 95-94.00r.
- Jensen, Ellsworth O.: *See—*
Shelton, Ray T.; and Jensen, Ellsworth O., 3,684,649.
- Jensen, Eric L.: *See—*
Cvacho, Daniel S.; Fastabend, Patrick A.; Garriques, Alfred L.; and Jensen, Eric L., 3,698,593.
- Jensen, Erik; and Blankenship, Shelby L., to Westinghouse Electric Corporation. Electric resistance convection heater. 3,666,924, 5-30-72, Cl. 219-552.
- Jensen, Erik Kjaer, to Bristol-Myers Company. Heat storing hair roller. 3,696,819, 10-10-72, Cl. 132-33.00r.
- Jensen, Finn Benzion, to Ford Motor Company. Energy absorbing steering column. 3,665,777, 5-30-72, Cl. 74-492.000.
- Jensen, Flemming Edvin, to Smidth, F. L., & Co. Method and apparatus for cooling cement clinker. 3,704,873, 12-5-72, Cl. 263-32.00c.
- Jensen, Gillian C., administratrix: *See—*
Jensen, James L., deceased, 3,693,188.
- Jensen, Hans A.; and Layman, Melvin M., to Mayer, Oscar, & Co., Inc. Packaging machine. 3,645,065, 2-29-72, Cl. 53-73.
- Jensen, Harald: *See—*
Claus, Karl; and Jensen, Harald, 3,689,486.
- Jensen, Harold A.: *See—*
Barnett, Allen M.; Jensen, Harold A.; and Meikleham, Virginia F., 3,647,578.
- Jensen, Harold R., to Western Electric Company, Incorporated. Pulse generator comprising serially connected make and break relays, timing circuit, flip-flop and monostable multivibrator. 3,670,209, 6-13-72, Cl. 317-135.00r.
- Jensen, Howard J.: *See—*
Richmond, Kenneth D.; and Jensen, Howard J., 3,634,572.
- Jensen Industries, Inc.: *See—*
Jensen, John L., 3,659,278.
- Jensen, James L., deceased (by Jensen, Gillian C., administratrix). Read-out and reset control for a memory core. 3,693,188, 9-19-72, Cl. 340-174.00r.
- Jensen, James R., to Pacific Car and Foundry Company. Spring brake control valve. 3,685,870, 8-22-72, Cl. 303-71.000.
- Jensen, John C. Tractor frame structure. 3,661,223, 5-9-72, Cl. 180-54.
- Jensen, John L., to Jensen Industries, Inc. Fire and smoke alarm device. 3,659,278, 4-25-72, Cl. 340-237.
- Jensen, Jorgen Albrecht; and Jensen, Jorgen Gars, to Gram, Hans. Suction apparatus for body cavities. 3,661,144, 5-9-72, Cl. 128-2.
- Jensen, Jorgen Bent; Jensen, Borge; Krohn, Rasmus; and Keldmann, Erik, to Bristol-Myers Company. Apparatus for heating of hairwinders. 3,700,853, 10-24-72, Cl. 219-222.000.
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Jensen, Jorgen Albrecht; and Jensen, Jorgen Gars, 3,661,144.
- Jensen, Klaus: *See—*
Wienand, Michael; Jensen, Klaus; Primessing, Franz; and Alfter, Franz-Werner, 3,679,531.
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Nielsen, Vagn; Lauridsen, Jens Birk; and Jensen, Kristian Stistrup, 3,691,150.
- Jensen, Leif Egon. Demodulator for frequency shift modulated signals. 3,684,969, 8-15-72, Cl. 329-104.000.
- Jensen, Leo Anker. Electronic remote supervision and control of states and processes. 3,689,890, 9-5-72, Cl. 340-171.00r.
- Jensen Machinery Inc.: *See—*
Gerstenberger, Roland W.; and Gunn, David P., 3,706,450.
- Jensen, Marcus M. Environment contaminant control console. 3,665,917, 5-30-72, Cl. 128-2.
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Jensen, Preben W.; and Jensen, Ole, R., 3,661,020.
- Jensen, Paul D.: *See—*
Draughton, Roland C.; Jensen, Paul D.; and Jensen, Donald F., 3,664,792.
- Jensen, Preben W.; and Jensen, Ole, R. Circular roller-band devices. 3,661,020, 5-9-72, Cl. 74-192.
- Jensen, Preben W. Rolling joint mechanisms. 3,696,683, 10-10-72, Cl. 74-89.
- Jensen, Reed J.; and Rice, Walter W., Jr., to United States of America, Atomic Energy Commission. Explosively driven pulsed chemical laser. 3,662,280, 5-9-72, Cl. 331-94.5.
- Jensen, Reilly C.: *See—*
Partridge, Jerry A.; and Jensen, Reilly C., 3,641,226.
- Jensen, Robert A.; and Johnson, Orville M., to Minnesota Mining and Manufacturing Company. Adhesive tape dispenser. 3,676,266, 7-11-72, Cl. 156-521.000.
- Jensen, Thomas H.; and Bennett, Howard M., to PPG Industries, Inc. Method and apparatus for controlling the diameter of glass fibers. 3,652,243, 3-28-72, Cl. 65-2.
- Jenson, Clark E. Tree medication capsule. 3,706,161, 12-19-72, Cl. 47-57.500.
- Jentjens, Andreas Petrus Theodorus Hermanus: *See—*
Klostermann, Frits Theodoor; Jentjens, Andreas Petrus Theodorus Hermanus; and Bouwer, Adrianus Gerardus, 3,688,655.
- Jentsch, Christian Robert, to British Petroleum Company Limited, The. Preparation of unsaturated esters. 3,654,345, 4-4-72, Cl. 260-486.
- Jentsch, Dietrich, to Dorken & Mankel KG. Pivotal support for a door or analogous swingable element. 3,651,538, 3-28-72, Cl. 16-134.
- Jentsch, Dietrich, to Dorken & Mankel KG, Firma. Closing device for doors and analogous structural elements. 3,675,270, 7-11-72, Cl. 16-53.000.
- Jentsch, Dietrich, to Dorken & Mankel, KG. Mounting for built-in door-closing arrangement. 3,694,852, 10-3-72, Cl. 16-129.000.
- Jentsch, Dietrich; and Cleff, Herbert, to Dorken & Mankel KG. Door closer. 3,701,180, 10-31-72, Cl. 16-55.000.
- Jentzsch, Dietrich: *See—*
Frank, Peter; Jentzsch, Dietrich; and Kurger, Helmut, 3,672,227.
- Jenvey, Leslie Richard, to Adwest Engineering Limited. Steering arrangements for motor vehicles. 3,661,032, 5-9-72, Cl. 74-498.
- Jenvey, Leslie Richard, to Adwest Engineering Limited. Steering mechanism for motor vehicles. 3,680,443, 8-1-72, Cl. 91-375.00a.
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- Jephcott, William C.: *See—*
Ratowsky, Simon, 3,668,997.
- Jepsen, Tag L. B., to Basic Incorporated. Flotation concentration of magnesite with emulsified collector reagents. 3,640,382, 2-8-72, Cl. 209-12.
- Jepson, Ivar; Morgan, John W.; and Richmond, James W., to Sunbeam Corporation. Interval timer having magnetic wall portions. 3,699,282, 10-17-72, Cl. 200-38.00a.
- Jerabek, Elihu C., to General Electric Company. Sealed metallic oxide-indium secondary battery. 3,672,997, 6-27-72, Cl. 136-20.000.
- Jerabek, Jan: *See—*
Chvala, Bretislav; Janostik, Jaroslav; Mares, Jindrich; and Jerabek, Jan, 3,683,644.
- Jerabek, Robert D.: *See—*
Plasynski, Joseph E.; and Jerabek, Robert D., 3,640,810.
Plasynski, Joseph E.; and Jerabek, Robert D., 3,699,009.
- Jerchel, Dietrich: *See—*
Ost, Walter; Thomas, Klaus; Jerchel, Dietrich; and Linden, Gerbert, 3,641,062.

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Ost, Walter; Thomas, Klaus; and Jerchel, Dietrich, 3,702,344.
Ost, Walter; Thomas, Klaus; and Jerchel, Dietrich, 3,707,477.
Jerchow, Lewis A.: *See—*
Hansen, Robert A.; and Jerchow, Lewis A., 3,704,547.
Jergins, Allen A. Offshore drilling and well completion method. 3,642,063, 2-15-72, Cl. 166-5.
Jerit, John, to Brand Insulations, Inc. Self-locking prefabricated panels. 3,667,187, 6-6-72, Cl. 52-582.
Jerkeman, Per: *See—*
Forsblad, Lars-Henrik; and Jerkeman, Per, 3,677,886.
Jernakoff, George: *See—*
Van der Grinten, Willem J.; and Jernakoff, George, 3,641,340.
Jernberg, Robert: *See—*
Schaefer, Robert B.; and Jernberg, Robert, 3,631,974.
Jernigan, Albert T. Two-track vehicle. 3,698,500, 10-17-72, Cl. 180-6.7.
Jernigan, Ernest D., Jr., to Industrial Nucleonics Corporation. Radiation gauge for monitoring sheet properties employing a scanned source. 3,655,979, 4-11-72, Cl. 250-83.3.
Jernigan, Marvin E.: *See—*
Newman, Joel S.; and Jernigan, Marvin E., 3,679,295.
Jernstrom, Hans E. I. Simulated container. 3,690,542, 9-12-72, Cl. 229-30.000.
Jerobee Industries, Inc.: *See—*
Congdon, John M., 3,683,546.
Jerobee Industries, Inc., *mesne: See—*
Weglin, Walter; and Wildebour, Charles W., 3,678,577.
Jerolamon, David: *See—*
Van Peppen, Jan F.; and Jerolamon, David, 3,689,479.
Jerome, Chester W. Apparatus for removing excess of material projecting from the true periphery of a bowling ball without modifying such true periphery. 3,675,535, 7-11-72, Cl. 90-11.00r.
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Jerrold Electronics Corporation: *See—*
Fluck, Sydney, Jr., 3,651,403.
Jeffers, Michael F., 3,665,316.
Leitner, Robert T.; and Drake, John E., 3,680,146.
Yastrov, Henry, 3,665,333.
Jerrold Electronics Corporation, *mesne: See—*
Ticknor, Sergei L., 3,673,517.
Jerrold-Jones, Paul, to Beckman Instruments, Inc. Cable connector. 3,685,006, 8-15-72, Cl. 339-117.00r.
Jersey, Chester A.: *See—*
De Corso, Serafino M.; and Jersey, Chester A., 3,668,869.
Jerson, Sidney N.: *See—*
Kuller, Lawrence; and Jerson, Sidney N., 3,683,277.
Jerue, Richard A., to Devlieg Machine Company. Machine tool with automatic tool changing mechanism. 3,689,988, 9-12-72, Cl. 29-568.000.
Jervis Corporation: *See—*
McIntyre, Matthew; and Goodfellow, Harry Edwin, 3,653,276.
Jervis, Roy, to Dunlop Holdings Limited. Cellular structures. 3,679,552, 7-25-72, Cl. 204-37.00r.
Jescher, Gerhard: *See—*
Hoffman, Herwig; Jescher, Gerhard; Kuerzinger, Alfred; Schmidt, Erwin; Schoenleben, Willibald; Voges, Dieter; and Winderl, Siegfried, 3,691,205.
Jeserich, Wolfgang-Dieter: *See—*
Steinhofer, Adolf; Doerfel, Helmut; Falkenstein, Georg; and Jeserich, Wolfgang-Dieter, 3,700,658.
Jeskey, Gerald Vernon: *See—*
Whisler, Howard E.; Shah, Bhupendra Umedchand; Jeskey, Gerald Vernon; and Bloom, Ray Albert, 3,703,924.
Jesnitzer, Friedrich Erdmann; and Rehfeldt, Dietrich, to Redemat S.A. Apparatus for controlling electric welding processes. 3,679,865, 7-25-72, Cl. 219-131.00r.
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Toksvig, Peter K., 3,642,419.
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Jessep, Donald C., Jr.: *See—*
Carter, William C.; Duke, Keith A.; and Jessep, Donald C., Jr., 3,648,239.
Carter, William C.; Henle, Robert A.; Jessep, Donald C., Jr.; and Wadia, Aspi B., 3,688,265.
Carter, William C.; Duke, Keith A.; and Jessep, Donald C., Jr., 3,697,949.
Carter, William C.; Jessep, Donald C., Jr.; and Wadia, Aspi B., 3,705,357.
Jessett & Henry (Food Machinery) Limited: *See—*
Swann, William Richard, 3,643,718.
Jessop, Anthony: *See—*
Waters, Derek Brian; and Jessop, Anthony, 3,646,517.
Jessup, Artie D., to United States of America, National Aeronautics and Space Administration. Variable angle tube holder. 3,649,462, 3-14-72, Cl. 195-127.
Jessup, Richard J., to Udylyte Corporation, The. Apparatus for electroplating workpieces. 3,674,673, 7-4-72, Cl. 204-213.000.
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Jet Line Products, Inc.: *See—*
Hamrick, James C., 3,682,500.
Ruddick, Howard G.; and Long, Kenneth H., 3,689,031.
Jet Snix, Inc.: *See—*
Gray, Brent E., 3,665,619.
Jet-X Corporation: *See—*
Proctor, Rudy R.; and Proctor, Denver L., 3,685,803.
Jeter, John D. Directional drilling apparatus. 3,637,032, 1-25-72, Cl. 175-73.
Jeths, Johannes: *See—*
Von der Eltz, Hans-Ulrich; Jeths, Johannes; and Boecker, Alfons Bernhard, 3,672,815.
Jetrut Inc.: *See—*
Ratcliff, Harvey L., Jr., 3,632,189.
Jetter, Evelyn Speter: *See—*
Einhoven, Willem Gerard; Jetter, Evelyn Speter; and Wheatley, Carl Franklin, Jr., 3,676,229.
Jetz, John J., to Bell Telephone Laboratories, Incorporated. Video inversion technique to counteract slowly moving interference patterns in a video communications system. 3,676,589, 7-11-72, Cl. 178-6.800.
JeuMont-Schneider: *See—*
Darmon, Jacques; and Coffre, Philippe, 3,706,985.
Drye, Lucien, 3,681,629.
Moury, Pierre, 3,634,728.
Ricaud, Pierre; and Cynober, Simon A., 3,706,286.
Ricaud, Pierre A.; and Cynober, Simon A., 3,702,099.
Wiat, Albert; and Cynober, Simon A., 3,675,585.
Wiat, Albert C., 3,639,819.
Jeurissen, Lambert Gaston: *See—*
Conix, Andre Jan; and Jeurissen, Lambert Gaston, 3,706,699.
Conix, Andre Jan; and Jeurissen, Lambert Gaston, 3,706,711.
Jeurissen, Lambert Gaston, to Gevaert-Agfa N.V. Process for preparation of polyesters of dicarboxylic acids and glycols in the presence of crystalline germanate catalysts. 3,654,234, 4-4-72, Cl. 260-75.
Jeurissen, Lambert Gaston; and Conix, Andre Jan, to Gevaert-Agfa N.V. Manufacture of polymers. 3,658,760, 4-25-72, Cl. 260-75.
Jewel Manufacturing Co.: *See—*
Kortick, Morris, 3,634,917.
Jewel Manufacturing Company: *See—*
Flick, Kenneth E., 3,661,411.
Flick, Kenneth E., 3,677,582.
Jewell, George S.: *See—*
Parker, Robert E.; Lodge, Malcolm A.; and Jewell, George S., 3,704,372.
Jewell, J. D., Inc.: *See—*
Harkey, Charles N., 3,703,382.
Jewell, William A. Collapsible combination bed and closet. 3,638,246, 2-1-72, Cl. 5-2.
Jewett, Walter L., to Allied Welder Corporation. Planishing machine. 3,677,053, 7-18-72, Cl. 72-111.000.
Jex, Henry R., to Systems Technology, Inc. Apparatus for determining eye point-of-regard. 3,664,731, 5-23-72, Cl. 351-7.
Jezewski, Walter E.: *See—*
Biederman, Stuart J.; and Jezewski, Walter E., 3,668,760.
Biederman, Stuart J.; and Jezewski, Walter E., 3,689,984.
Jezioranski, Joseph S.; Kenedi, Robert; and Gagnier, Real, to Northern Electric Company Limited. Telephone switching system. 3,636,263, 1-18-72, Cl. 179-18.
Jezuit, Arthur D.: *See—*
Young, William E.; and Jezuit, Arthur D., 3,706,174.
Jezuit, Leslie J.; and Kollars, Harold R., to North American Rockwell Corporation. Dampening system for lithographic printing press. 3,673,959, 7-4-72, Cl. 101-148.000.
JFD Electronics Corporation: *See—*
Grant, Ronald D., 3,696,437.
Grant, Ronald D., 3,707,681.
Metzger, Louis G., 3,681,664.
Metzger, Louis G., 3,705,335.
Jidling, Kjell Esbjorn; and Soderkvist, Lars O. A., to LKB-Produkter AB. Injection and dosing arrangements. 3,646,960, 3-7-72, Cl. 137-565.
Jiffy Manufacturing Co.: *See—*
Gerard, George, 3,668,055.

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Jilbert, Philip Harvey, to United Kingdom Atomic Energy Authority. Interface detection apparatus having a side arm detector with three electrodes. 3,656,055, 4-11-72, Cl. 324-61.
Jilek, Walter: *See—*
Hubner, Franz; and Jilek, Walter, 3,685,358.
Jimenez, Mario E.: *See—*
Howe, Frederick J.; and Jimenez, Mario E., 3,636,696.
Jimerson, Bruce D.; and Moore, Robert H. Household water distillation system. 3,687,817, 8-29-72, Cl. 202-181.000.
Jimerson, Bruce D. Gametoy locomotion apparatus. 3,698,713, 10-17-72, Cl. 273-86.00e.
Jindo, Takashi: *See—*
Kazaoka, Kenichi; and Jindo, Takashi, 3,667,791.
Jindra, Karel; Pavlik, Kamil; Kas, Josef; Kocian, Zdenek; Hanjs, Vaciv; and Tyls, Jaroslav, to Elitex, Zavody textilniho strojirenstvi generalni reditelstvi. Fiber separating roller device for spinning units of pneumatic-mechanical yarn manufacturing machines. 3,681,907, 8-8-72, Cl. 57-58.910.
Jingu, Tomoyasu; and Yamamoto, Tokio, to Diesel Kiki Kabushiki Kaisha. Centrifugal-type injection timing adjusting device for internal combustion engines. 3,654,776, 4-11-72, Cl. 64-25.
Jinnette, Allen J., to Burlington Industries, Inc. Bleaching procedure for fiberglass fabrics. 3,671,179, 6-20-72, Cl. 8-101.000.
Jinsenji, Sei: *See—*
Kakiuchi, Tokusaburo; Ando, Akira; Akiyama, Hideaki; and Jinsenji, Sei, 3,685,767.
Jintan Terumo Co., Ltd.: *See—*
Koremura, Norio, 3,648,693.
Koremura, Norio, 3,664,814.
Jirik, Frank J. Grain divider apparatus. 3,688,587, 9-5-72, Cl. 73-421.00r.
Jirka, Karl; Gutthuber, Johann; and Straubing, Irlbach B., to Kunststoffwerk Gebruder Anger G.m.b.H. & Co. Sealed connector box for electrical cables. 3,705,950, 12-12-72, Cl. 174-138.00f.
Jiskra, Miroslav: *See—*
Boucek, Miroslav; and Jiskra, Miroslav, 3,698,174.
Jituo, Hamai, to Hamai Denkyo Kogyo Kabushiki Kaisha. Manufacturing method for small electric lamps. 3,698,784, 10-17-72, Cl. 316-19.000.
Jivojin, Anton. Manufacturing flexible drinking straws. 3,641,884, 2-15-72, Cl. 93-84.
Jo Bud, Inc.: *See—*
Commans, Donald V., 3,635,516.
Joa, Curt G. Pad folding machine. 3,635,462, 1-18-72, Cl. 270-86.
Joa, Curt G. Absorbent pad. 3,666,611, 5-30-72, Cl. 161-147.
Joa, Curt G. Method of making a laminated mat from plies of fibrous pulp material. 3,673,021, 6-27-72, Cl. 156-62.400.
Joa, Curt G., Inc.: *See—*
Kicla, Gene F.; and Radzins, Edmund, 3,691,915.
Joannes, Giuseppe, to Gruppo Finanziario Termico Fin-Term S.p.A. Heat generator of the smoke-tube type. 3,672,336, 6-27-72, Cl. 122-149.
Joannes, Gustave: *See—*
Sluse, Guy; and Joannes, Gustave, 3,668,005.
Job, Brian Ernest; Pioli, Alexander Joseph Peter; and Medinger, Till, to Imperial Chemical Industries Limited. Polymerisation process. 3,654,254, 4-4-72, Cl. 260-94.9.
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Job, Claude; Landler, Yvan; Lebel, Pierre Henri; and Meillat, Lucile, to Pneumatiques Caoutchouc Manufacture et Plastiques Kleber-Colombes. Adhering rubbers and polyolefines by other than peroxide curing agents. 3,650,874, 3-21-72, Cl. 161-217.
Job, Leonard Austin: *See—*
Verreynne, Abraham Jacob; Job, Leonard Austin; Renolle, Paul; and Richter, Johan C. F. C., 3,660,225.
Jobe, Lowell A., to United States of America, Atomic Energy Commission. Flow rate control method. 3,633,597, 1-11-72, Cl. 137-8.
Jobert, Raymond: *See—*
Allirot, Rene Joseph; Darcas, Claude; and Jobert, Raymond, 3,697,576.
Darcas, Claude; Jobert, Raymond; and Laviron, Charles, 3,699,148.
Jobert, Raymond; and Vuchner, Bernard, to Ugine Kuhlmann. Process of manufacture of acrylic and methacrylic higher esters. 3,686,268, 8-22-72, Cl. 260-465.400.
Jobson, Roger J.: *See—*
Kipping, Vernon L., 3,641,334.
Joch, Wilhelm: *See—*
Termin, Erich; Rogler, Walter; Joch, Wilhelm; and Honigschmid-Grossich, Rudiger, 3,679,724.
Jochems, Joseph Roelof. Amalgam gun. 3,641,673, 2-15-72, Cl. 32-60.
Jochems, Pieter Johannes Wilhelmus; and De Werdt, Reinier. Method of manufacturing an electric device e.g. a semiconductor device. 3,695,955, 10-3-72, Cl. 156-11.000.
Jochim, La Vergne C., to Ti-Mind Incorporated. Retarded clock device with pin ball type switch actuators. 3,684,843, 8-15-72, Cl. 200-35.00r.
Jochimsen, Dieter: *See—*
Kuehnle, Manfred R.; and Jochimsen, Dieter, 3,697,176.
Kuehnle, Manfred R.; Kok, Jurgen; and Jochimsen, Dieter, 3,705,294.
Jochimsen, William George: *See—*
Plotnikoff, Nicholas Peter; Dren, Anthony Thomas; and Jochimsen, William George, 3,706,831.
Jochmann, Leonard, to International Standard Electric Corporation. Method of and an apparatus for determining the bond strength between the metallic sheath and the non-metallic jacket of a cable. 3,683,682, 8-15-72, Cl. 73-88.00b.
Jochum, Peter: *See—*
Schmitt, Werner; Purmann, Robert; Jochum, Peter; and Zahler, Wolf-Dietrich, 3,634,400.
Jocteur, Robert, to Cable de Lyon Alsacienne. Corrugated metal tube for an external conductor or sheath of an electric cable. 3,667,506, 6-6-72, Cl. 138-156.
Jodrey, Robert M.: *See—*
Dentch, Milton P.; Jodrey, Robert M.; Gucstella, Samuel L.; and Larrivee, Jerry J., 3,690,297.
Joe, Edwin Glendon: *See—*
Craigne, William J. S.; Ritcey, Gordon M.; Joe, Edwin Glendon; Melvanin, William; and Smart, Bruce C., 3,702,883.
Joel, Amos Edward, Jr., to Bell Telephone Laboratories, Incorporated. Switching of time division multiplex lines through telephone central offices. 3,652,803, 3-28-72, Cl. 179-18.
Joel, Amos Edward, Jr., to Bell Telephone Laboratories, Incorporated. Mobile communication system. 3,663,762, 5-16-72, Cl. 179-41.
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Joel, Henry G., to Olivetti, Ing., C., & C., S.p.A. Remote illuminating apparatus. 3,702,930, 11-14-72, Cl. 240-41.35r.
Joele, Hector, to Cincinnati Milacron, Inc. Hopper feed device. 3,702,663, 11-14-72, Cl. 221-167.000.
Joelson, Carl R. Method for producing concrete pipe. 3,696,182, 10-3-72, Cl. 264-72.000.
Joens, Allan D.; Johnson, Robert W.; and Riggle, Michael. Remote alarm system. 3,668,675, 6-6-72, Cl. 340-224.
Joerns Furniture Company: *See—*
Gulliver, Barron J., 3,688,319.
Joesting, Frederick D., to Honeywell Inc. Pressure inverter. 3,648,716, 3-14-72, Cl. 137-85.
Joesting, Frederick D., to Honeywell Inc. Multi-unit pneumatic control system. 3,672,567, 6-27-72, Cl. 236-1.00c.
Joguet, Jean-Claude: *See—*
Brisse, Jacques Daniel Philippe; and Joguet, Jean-Claude, 3,706,992.
Johan, Bengt Olof; and Morner, Stellan, to Medioplast AB. Apparatus for destroying hypodermic needles, needle-equipped ampules, hypodermic syringes and the like. 3,683,733, 8-15-72, Cl. 83-199.000.
Johannes, Gunter: *See—*
May, Kurt; and Johannes, Gunter, 3,693,687.
Johannesson, Nils Olof: *See—*
Danell, Curt; and Johannesson, Nils Olof, 3,639,687.
Johannisson, Dag Olof Alfred; and Lundberg, Gustaf Silas Staffan, to AGA Aktiebolag. Gas evacuator for breathing apparatus. 3,662,774, 5-16-72, Cl. 137-115.
Johannisson, Dag Olof Alfred, to AGA Aktiebolag. Humidification equipment for gases. 3,677,527, 7-18-72, Cl. 261-76.000.
Johannsen, Bruno Bernhardt; and Cox, Robert Earl, to Deere & Company. Reversible disk plow. 3,656,556, 4-18-72, Cl. 172-212.
Johannsen, Peter; and Kohler, Robert, to Continental Gummi-Werke Aktiengesellschaft. Emergency supporting ring for vehicle wheels with pneumatic tires. 3,682,218, 8-8-72, Cl. 152-158.000.
Johannsen, Werner Hans: *See—*
Hofmann, Erich; Krull, Ernst; Johannsen, Werner Hans; Oberheim, Robert; and Scheibel, Josef, 3,669,534.
Johannsmeier, Karl-Heinz. Out of contact optical alignment and exposure apparatus. 3,674,368, 7-4-72, Cl. 355-78.000.
Johannsmeier, Karl-Heinz; Stoft, Paul E.; and Larsen, Tor G., said Larsen assor. to Kasper Instruments Inc. Apparatus for the automatic alignment of two superimposed objects, E. G. a semiconductor wafer and mask. 3,683,195, 8-8-72, Cl. 250-219.00r.
Johannsmeier, Karl-Heinz. Wafer loading apparatus. 3,700,567, 10-24-72, Cl. 29-203.00r.
Johannsmeier, Karl-Heinz. Optical alignment and contact printing system with improved chuck assembly. 3,705,769, 12-12-72, Cl. 355-91.000.
Johansen, Alfred M. Shirt button accessory. 3,683,459, 8-15-72, Cl. 24-40.000.
Johansen, Bent Georg, to Bristol-Myers Company. Hairwinder. 3,706,315, 12-19-72, Cl. 132-33.00r.

- Johansen, Birger Johan Walthers, to Birton Klima- Og Koleteknik I/S. Steam generators. 3,682,141, 8-8-72, Cl. 122-451.00r.
- Johansen, Henry Albert. Rescaling device. 3,656,667, 4-18-72, Cl. 222-561.000.
- Johansen, Oddvar, to Nobo Fabrikker A/S. Room-temperature regulator for electric heaters. 3,651,307, 3-21-72, Cl. 219-505.
- Johanson, Edwin S.; Wolk, Ronald H.; and Johnson, Clarence A., to Hydrocarbon Research, Inc. Hydrogenation of low rank coal. 3,700,584, 10-24-72, Cl. 208-10.000.
- Johanson, John E., to Johanson Manufacturing Corporation. Variable disk capacitors. 3,701,932, 10-31-72, Cl. 317-254.000.
- Johanson Manufacturing Corporation: *See—*
- Johanson, John E., 3,701,932.
- Johanson Technology, Inc.: *See—*
- Watson, Alvin N., 3,633,079.
- Watson, Alvin N., 3,633,080.
- Johansson, Anders Lennart: *See—*
- Eriksson, Jan Christer; Lagergren, Hans Ragnar; Johansson, Anders Lennart; and Gillberg, Eisa, 3,634,123.
- Johansson, Arnold Johannes, to Aktiebolaget Bofors. Device for particularly continuous checking and/or indication of curvatures arising in gun barrels. 3,684,383, 8-15-72, Cl. 356-154.000.
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- Johansson, Bengt; and Nilsson, Erland, to Allmanna Svenska Elektriska Aktiebolaget. Spark gap for surge diverters. 3,704,388, 11-28-72, Cl. 315-36.000.
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- Johansson, Hans A. V. Bath litter for therapeutic treatment. 3,675,255, 7-11-72, Cl. 5-82.000.
- Johansson, Hans Arne. Bath system, particularly for wheel-chair constrained disabled persons. 3,662,409, 5-16-72, Cl. 4-145.
- Johansson, Hans Arne Valendier, to Mo och Domsjo Aktiebolag. Tray-like stackable container. 3,701,467, 10-31-72, Cl. 229-31.00r.
- Johansson, Jarl Harald; and Tornqvist, Jan Tore, to Mo och Domsjo Aktiebolag. Process for the preparation of piperazine. 3,682,919, 8-8-72, Cl. 260-268.05y.
- Johansson, John G.: *See—*
- Skinner, Wilfred A.; Johansson, John G.; and Johnson, Howard L., 3,676,447.
- Skinner, Wilfred A.; Johansson, John G.; and Johnson, Howard L., 3,702,324.
- Johansson, Karl Bertil Sune: *See—*
- Sundsten, Owe Wilhelm; and Johansson, Karl Bertil Sune, 3,703,916.
- Johansson, Karl Borje, to Alfa-Laval AB. Suspension arrangement for heat exchanger plates. 3,666,226, 5-30-72, Cl. 248-214.
- Johansson, Leif A. T.: *See—*
- Tillander, Magnus E.; Persson, Ake B.; and Johansson, Leif A. T., 3,641,945.
- Johansson, Lennart: *See—*
- Frank, Kjell; and Johansson, Lennart, 3,703,680.
- Johansson, Rolf; and Hojer, Erik. Ventilating arrangement in dish washing machines. 3,680,940, 8-1-72, Cl. 312-213.000.
- Johansson, Rolf Anders. Apparatus for slip-forming. 3,705,776, 12-12-72, Cl. 425-65.000.
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- Johansson, Rolf Ingvar. Device for separating liquid from a slurry. 3,695,448, 10-3-72, Cl. 210-394.000.
- Johansson, Ronald C.; and Weeklund, Wayne Donald, to Minnesota Mining and Manufacturing Company. Deformable fin spring connector. 3,676,574, 7-11-72, Cl. 174-87.000.
- Johansson, Sven Agden: *See—*
- Aue, Alexander Iskander; Bjorling, Gotthard E.; and Johansson, Sven Agden, 3,649,487.
- Johansson, Sven Yngve David: *See—*
- Brandin, Tore; and Johansson, Sven Yngve David, 3,643,754.
- Johmann, Frank T. Doll capable of playing a game with a child. 3,650,065, 3-21-72, Cl. 46-118.
- Johmann, Frank T. Dolls. 3,672,096, 6-27-72, Cl. 46-120.000.
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- Johmann, Frank T. Pointer spinning mechanical dolls. 3,705,726, 12-12-72, Cl. 273-151.00a.
- John Andrew, to Hercules Incorporated. Blends of polypropylene with hydrogenated hydrocarbon resins. 3,666,836, 5-30-72, Cl. 260-897.00a.
- John, Ansel N. One step lock and release cycle stand. 3,675,784, 7-11-72, Cl. 211-22.000.
- John, Claus, to Danfoss A/S. Electric switch with a snap-action system. 3,656,081, 4-11-72, Cl. 337-346.
- John, E. Roy; and Laupheimer, Robert. Method and system for brain wave analysis. 3,696,808, 10-10-72, Cl. 128-2.10b.
- John, Erwin Roy, to Neuro-Data, Inc. Signal averager. 3,705,297, 12-5-72, Cl. 235-150.530.
- John, Erwin Roy; and Laupheimer, Robert, to Neuro-Data, Inc. Life detecting medical instrument. 3,706,308, 12-19-72, Cl. 128-2.06r.
- John, Glen Owen: *See—*
- Derham, Leslie Jack; and John, Glen Owen, 3,667,934.
- John, Harald; Luehdemann, Rolf; Rittinger, Wilhelm; Sliwka, Artur; and Saum, Walter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Removal of CO₂ and/or H₂S from gases containing olefines and acetylenes. 3,660,016, 5-2-72, Cl. 23-2.
- John, Lennice L.: *See—*
- John, Romeo F.; and John, Lennice L., 3,636,961.
- John, Neusubing B.: *See—*
- Leitmeier, Franz X.; Saller, Franz; and John, Neusubing B., 3,689,134.
- John, Robert S., Jr., to Bell & Howell Company. Audio-visual apparatus. 3,694,061, 9-26-72, Cl. 352-20.000.
- John, Romeo F.; and John, Lennice L. Automatic shampoo machine. 3,636,961, 1-25-72, Cl. 132-9.
- John, Ronald: *See—*
- Fleit, Alexander; and John, Ronald, 3,684,333.
- John, Ronald, to Molins Machine Company Limited. Guards. 3,704,959, 12-5-72, Cl. 408-241.00g.
- John, Willibald; Schmalfeld, Paul; Lange, Paul; and Rammler, Roland, to Metallgesellschaft Aktiengesellschaft. Continuous process of producing shaped metallurgical coke. 3,700,564, 10-24-72, Cl. 201-6.000.
- Johns, Hans: *See—*
- Schone, Helmut; Weishach, Gunter; Johns, Hans; Kuhn, Fritz; and Lein, Werner, 3,647,205.
- Johns, Hans; Schumann, Gunter; and Reichenberger, Kurt, to Veb Druckmaschinenwerk Planeta. Apparatus for regulating a color dosing device in relation to a color doctor roller. 3,696,743, 10-10-72, Cl. 101-365.000.
- Johns, Arne, to I. W. S. Nominee Company Limited. Coiling textile strands. 3,638,278, 2-1-72, Cl. 19-159.
- Johns, Alfred W.; Murtland, James B., Jr.; and Rockwell, Perry Marvin, to Allegheny Ludlum Industries, Inc. Control system for hydraulic extrusion press. 3,649,816, 3-14-72, Cl. 235-151.1.
- Johns, Graham L.: *See—*
- Moss, Gerald; and Johns, Graham L., 3,661,177.
- Johnmeyer, Hillard E., Sr. Trenching implement. 3,663,063, 5-16-72, Cl. 299-86.
- Johns, Calvin Edward, to Otis Elevator Company. Door coupling apparatus for elevators. 3,638,762, 2-1-72, Cl. 187-52.
- Johns, Earl, to Gearhart-Owen Industries, Inc. Logging radial temperature distribution within a well. 3,656,344, 4-18-72, Cl. 73-154.
- Johns, Elvy E., Jr.: *See—*
- Johns, Elvy E., Sr.; Johns, Elvy E., Jr.; and Johns, Jerry E., 3,656,555.
- Johns, Elvy E., Sr.; Johns, Elvy E., Jr.; and Johns, Jerry E. Lawn edger. 3,656,555, 4-18-72, Cl. 172-16.
- Johns, Herman S., to Wellman Industries, Inc. Textile coiler with cooperating drive means and silver can locating means. 3,646,640, 3-7-72, Cl. 19-159.
- Johns, Herman S., to Wellman Industries, Inc. Method for processing sliver. 3,685,102, 8-22-72, Cl. 19-150.000.
- Johns Hopkins University, The: *See—*
- Holcomb, Harry F.; and Martinez, Miguel, 3,703,095.
- Johns, Richard J.; Shepard, Richard H.; and Lindsay, Wardell J., 3,659,586.
- Polk, Albert S., Jr., 3,648,953.
- Rabenhorst, David W., 3,672,241.
- Rabenhorst, David W., 3,682,518.
- Rabenhorst, David W., 3,694,042.
- Rabenhorst, David W., 3,698,262.
- Johns, Ira B., to Monsanto Research Corporation. (Aryloxyaryl) arylphosphorus compounds. 3,670,018, 6-13-72, Cl. 260-545.00p.
- Johns, Jerry E.: *See—*
- Johns, Elvy E., Sr.; Johns, Elvy E., Jr.; and Johns, Jerry E., 3,656,555.
- Johns, Melvin. Push-pull jack apparatus. 3,662,994, 5-16-72, Cl. 254-93.00r.
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- Johns, Stanley K. Dispensing closure. 3,655,105, 4-11-72, Cl. 222-484.
- Johns, Thomas Gerald: *See—*
- Fritz, Joseph Henry; and Johns, Thomas Gerald, 3,693,417.
- Johns, William F., to Searle, G. D., & Co. 3,17-Dioxxygenated 16 α ,17 α -methano-5 α -androstanes and unsaturated congeners. 3,646,074, 2-29-72, Cl. 260-397.4.
- Johns, William Richard, to Imperial Chemical Industries Limited. Organic reduction process. 3,661,968, 5-9-72, Cl. 269-465.8.
- Johns-Manville Corporation: *See—*
- Bettinardi, Edward Robert, 3,697,447.
- Blakeslee, Byron Edward; Gajewski, Thaddeus Joseph; and Ishida, Akio, 3,649,474.

- Chung, Jerome; and Shih, Hsuing, 3,695,763.
- Coglianesi, Fred A.; and Mc Corkle, John E., 3,703,482.
- Corbin, Raymond Le Rae, 3,707,432.
- Corrison, Winfield F., 3,645,564.
- Corrison, Winfield F.; and Heisler, Robert W., 3,682,502.
- Current, John Marvin; and Smalley, Rodney Roger, 3,695,965.
- Daniel, Leonard Irving, 3,637,239.
- Davis, Donald William; Baloga, James Michael; and Olmsted, Bruce Chamberlin, Jr., 3,658,184.
- Donovan, Howard Gleason, 3,701,484.
- Fowler, Richard Payson, 3,645,454.
- Fowler, Richard Payson, 3,677,919.
- Gagin, Lawrence Vincent, 3,687,850.
- Gagin, Lawrence Vincent; and Hull, Glenn Ralph, 3,690,135.
- Genson, Samuel Richard; Petersen, Svend Aage; and Currier, Robert Lee, 3,695,523.
- Greiner, Norman Shirk; and Magee, James Vincent, 3,683,565.
- Harker, Robert Ian, 3,701,828.
- Helmick, James William; Goebel, Brownell Wesley; and Current, John Marvin, 3,682,746.
- Hurley, Elmer Brewington, 3,661,607.
- Kazienko, Henry Joseph; and Palmer, Walter Madison, 3,684,317.
- Kazmierski, John, Jr., 3,633,946.
- MacPherson, Donald Reid, 3,680,699.
- Meserole, Robert H., 3,689,114.
- Palumbo, Henry Joseph, 3,634,309.
- Palumbo, Henry Joseph, 3,645,958.
- Palumbo, Henry Joseph, 3,694,304.
- Perry, Walter Merton, 3,663,192.
- Pintard, Frederick B., 3,653,295.
- Pintard, Frederick Bruce; and Mollick, George Michael, 3,647,247.
- Poltorak, Emil Jacob, 3,639,187.
- Quint, Stephen Mark; and Dalton, John Junior, 3,676,196.
- Ramm, Joseph Louis; Ferraro, Joseph Peter; and Munder, Joseph Anthony, 3,633,943.
- Reimschuessel, George Paul; and Prins, Jacob Matthys, 3,688,768.
- Reynolds, Harold J., Jr., 3,657,041.
- Scheppers, Arthur, 3,687,800.
- Sherman, James Webster; and Helmick, James William, 3,687,168.
- Spencer, Samuel Binford, 3,673,027.
- Terry, Rupert Douglas, 3,660,890.
- Troyer, Richard Lloyd, 3,661,491.
- Yang, Julie Chi-Sun, 3,634,567.
- Yang, Julie Chi-Sun, 3,695,836.
- Johns-Manville Irrigation Corporation: *See—*
- Davis, Wayne Edward, 3,656,024.
- Johnsen, Eric C.; Mc Kinnon, Eugene T.; and Drutz, Alvin S., to Drutz, Alvin S. and said Johnsen assor. to said Mc Kinnon, Eugene T. Selectively variable timer with improved integral clutch cam structure. 3,649,781, 3-14-72, Cl. 200-33.
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- Johnsen, Eric C., to Gem Products, Inc. Motor protector. 3,701,068, 10-24-72, Cl. 337-102.000.
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- Hirsch, Christian Worm; and Johnsen, John Normann, 3,666,879.
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- Lindtveit, Torleif; Johnsen, Leif; and Haegland, Borge F., 3,668,778.
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- Tontini, Remo; and Johnsen, Raymond K., 3,650,472.
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- Johnson & Johnson: *See—*
- Adams, Robert J.; and Overhults, Wendell C., 3,663,501.
- Anderson, Dale L., 3,650,267.
- Ashcraft, Charles Ray, 3,647,507.
- Ashton, William H.; and Russell, Robert S., 3,684,197.
- Balinth, Ivan J.; and Beede, Charles H., 3,635,755.
- Baxter, Frederick J.; and Benoit, Yvonne R., 3,690,277.
- Beede, Charles H., 3,635,754.
- Bommels, Cyrus W.; and Doehner, Donald F., 3,707,518.
- Brooks, Berry A.; and Eisdorfer, Norman R., 3,683,921.
- Buese, George J., 3,649,436.
- Doviak, Peter L.; and Kalwaites, Frank, 3,632,269.
- Drelich, Arthur H.; and Condon, Patricia M., 3,639,327.
- Drelich, Arthur H., 3,661,735.
- Drelich, Arthur H.; and Bowman, Bobby R., 3,692,653.
- Drelich, Arthur H.; and Bowman, Bobby R., 3,706,595.
- Drelich, Arthur Herbert, 3,649,330.
- Farrington, Allan P.; and Nastus, Anthony J., 3,690,563.
- Fiam, Eric, 3,661,142.
- Gasaway, Glen P.; and Holbrook, Thomas Render, 3,642,516.
- Grobner, Wayne W., 3,642,561.
- Hall, Joseph J., 3,702,687.
- Harmon, Carlyle, 3,670,731.
- Jamison, Samuel J., 3,694,832.
- Kalwaites, Frank, 3,656,672.
- Kalwaites, Frank, 3,659,765.
- Kalwaites, Frank; and Doviak, Peter L., 3,666,609.
- Kalwaites, Frank, 3,679,535.
- Kalwaites, Frank, 3,679,536.
- Kalwaites, Frank, 3,681,182.
- Kalwaites, Frank, 3,681,183.
- Kalwaites, Frank, 3,681,184.
- Kalwaites, Frank, 3,682,756.
- Kalwaites, Frank, 3,683,559.
- Kalwaites, Frank, 3,698,039.
- Korpmann, Ralf, 3,676,202.
- Liloia, Gerald J.; May, Louis F., Jr.; Schiff, Norman; Mesek, Frederick K.; Shepherd, Robert C.; and Strickel, William R., 3,663,348.
- Lindquist, Julius A.; and Buese, George J., 3,665,918.
- Link, Martin, 3,690,523.
- Listner, Gregory Julius, 3,650,300.
- Malaney, Frank E., 3,695,269.
- Mesek, Frederick K., 3,668,925.
- Mesek, Frederick K.; and Rapkl, Virginia L., 3,683,916.
- Oelmann, Peter; and Weissuhnn, Peter, 3,640,522.
- Robinson, Raymond C. V.; Hildick-Smith, Gavin; and Swindlehurst, Thomas, Jr., 3,632,740.
- Ruffo, Angelo P., 3,675,403.
- Schiappa, Antonio; and Goff, Richard E., 3,662,787.
- Sliva, Martin E.; and Kwok, Roderic P., 3,667,916.
- Smith, J. Harold, 3,682,738.
- Stoveken, Francis Raymond; and Mayer, Warren Clifford, 3,667,999.
- Surpless, Susan R., 3,654,927.
- Tunc, Deger, 3,661,160.
- Zirnite, Richard N., 3,677,788.
- Johnson & Johnson, mesne: *See—*
- Briskin, Theodore S.; and Remanick, Allen H., 3,666,750.
- Johnson & Quin, Inc.: *See—*
- Johnson, Ralph L.; and Henkel, Robert I., 3,650,057.
- Johnson, A., & Co., Inc.: *See—*
- Wahlstrom, P. Borje; and Adamson, J. Eric, 3,671,389.
- Johnson, A., & Company (London) Limited: *See—*
- Burton, Derek Arthur, 3,669,869.
- Johnson, Alan Edward: *See—*
- Crabtree, John Dinsdale; Grundy, Kenneth Henry; and Johnson, Alan Edward, 3,663,500.
- Johnson, Alan J.; Newman, Jack; and Karparkin, Margaret Howell, to American National Red Cross. Antihemophilic factor prepared from blood plasma using polyethylene glycol. 3,652,530, 3-28-72, Cl. 260-112.
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- Johnson, Alford H., to Huffman, S. E., Corporation. Method and apparatus for grinding end cutting tools. 3,680,263, 8-1-72, Cl. 51-96.000.
- Johnson, Alfred D., to Sylvania Electric Products, Inc. Cathode ray tube faceplate having diverse optical means therein. 3,668,387, 6-6-72, Cl. 313-92.00r.
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- Johnson, Allan M., to CCI Aerospace Corporation. Method and apparatus for regenerating the dialyzing fluid for an artificial kidney. 3,697,418, 10-10-72, Cl. 210-22.000.
- Johnson, Allie A. Fluent material weighing system. 3,680,649, 8-1-72, Cl. 177-99.000.
- Johnson, Alvin C.; and Inks, Clyde G., to Wyandotte Chemicals Corporation. Water soluble compositions resistant to shear degradation of the polymer thereof. 3,634,305, 1-11-72, Cl. 260-33.4.
- Johnson, Anderson Forbes, Jr.: *See—*
- Boyer, Lynn Forrest; and Johnson, Anderson Forbes, Jr., 3,695,928.
- Johnson, Anthony Michael: *See—*
- Davoll, John; and Johnson, Anthony Michael, 3,652,565.
- Johnson, Arthur E.: *See—*
- Albanese, Victor J.; Johnson, Arthur E.; and Dietz, Charles L., 3,703,723.

- Johnson, Arthur F. Process for manufacturing alumina. 3,632,310, 1-4-72, Cl. 23-143.
- Johnson, Arthur F. Electrolytic cell. 3,640,800, 2-8-72, Cl. 204-67.
- Johnson, Arthur F. Method of withdrawing heat and current from molten aluminum cathode electrolytic cells. 3,649,480, 3-14-72, Cl. 204-67.
- Johnson, Arthur F. Effluent filtering process and apparatus for aluminum reduction cell. 3,664,935, 5-23-72, Cl. 204-67.000.
- Johnson, Arthur L.: *See—*
- Fox, Charles J.; and Johnson, Arthur L., 3,705,913.
- Goldman, Martin; and Johnson, Arthur L., 3,647,429.
- Johnson, Arthur Lee, to Eastman Kodak Company. Organic photoconductors. 3,681,068, 8-1-72, Cl. 96-1.500.
- Johnson, Arthur O. In-line fuel flow restricting and filter assembly. 3,655,059, 4-11-72, Cl. 210-446.
- Johnson, Audrey J.: *See—*
- Reimers, James; and Johnson, Audrey J., 3,642,111.
- Johnson, Benjamin M.: *See—*
- Coppinger, Eugene A.; and Johnson, Benjamin M., 3,697,436.
- Johnson, Bennie R. Integral casket handle and base with concealed hinge. 3,698,037, 10-17-72, Cl. 16-112.000.
- Johnson, Bennie R. Casket handle retained by spreadable webs. 3,699,611, 10-24-72, Cl. 16-114.000.
- Johnson, Bernard G. Adjustable corrugated shipping container and or adjustable cardboard shipping carton. 3,672,558, 6-27-72, Cl. 229-37.00r.
- Johnson, Bernt. Device for mounting and demounting a bit. 3,641,655, 2-15-72, Cl. 29-243.
- Johnson, Billie J. Method and means for making a carbon pattern on a flexible printing plate. 3,646,884, 3-7-72, Cl. 101-33.
- Johnson, Bobby G. Insulated prefabricated building module. 3,643,394, 2-22-72, Cl. 52-309.
- Johnson, Bruce K.; and Hendry, Donald H., to Polaroid Corporation. Photographic apparatus for mounting a multi-lamp flash unit. 3,640,194, 2-8-72, Cl. 95-11.
- Johnson, Bruce K., to Polaroid Corporation. Apparatus for copying photographic transparencies. 3,653,760, 4-4-72, Cl. 355-39.
- Johnson, Bruce K., to Polaroid Corporation. Self-cocking photographic shutter. 3,659,513, 5-2-72, Cl. 95-59.
- Johnson, Bruce K., to Polaroid Corporation. Photographic apparatus for processing film material. 3,672,275, 6-27-72, Cl. 95-13.000.
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- Johnson, Bruce K., to Polaroid Corporation. Exposure control mechanism with mechanical flash synchronization. 3,687,034, 8-29-72, Cl. 95-11.50r.
- Johnson, Bruce K., to Polaroid Corporation. Safety override for flash lamp indexing components of an exposure mechanism. 3,688,660, 9-5-72, Cl. 95-11.001.
- Johnson, Burnett H., to Esso Research and Engineering Company. Olefin polymerization to yield predominantly dimers and trimers. 3,642,932, 2-15-72, Cl. 260-683.1.
- Johnson, Byron Lee: *See—*
- Trump, John George; Skillicorn, Brian; and Johnson, Byron Lee, 3,684,991.
- Johnson, Calvin K., to CPC International Inc. Quaternary ammonium alkoxide alkoxy polyol compounds. 3,654,261, 4-4-72, Cl. 260-210.
- Johnson, Calvin Keith, to CPC International Inc. Resin coated sand. 3,692,733, 9-19-72, Cl. 260-38.000.
- Johnson, Carl E.: *See—*
- Keith, Willis C.; and Johnson, Carl E., 3,646,124.
- Roberts, Melvin L.; Johnson, Carl E.; and Miller, Richard C., 3,676,356.
- Johnson, Carl E., to Nalco Chemical Company. Method for making crystalline zeolite Y. 3,692,475, 9-19-72, Cl. 423-329.000.
- Johnson, Carl V.; and Leisio, Reino, to Technicon Corporation. Apparatus for simultaneously controlling the flow of fluids in a plurality of flow paths. 3,650,296, 3-21-72, Cl. 137-624.18.
- Johnson, Carl W.: *See—*
- Voss, Joseph A.; and Johnson, Carl W., 3,683,759.
- Voss, Joseph A.; and Johnson, Carl W., 3,695,970.
- Johnson, Cecil J.: *See—*
- Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., 3,677,204.
- Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., 3,682,591.
- Johnson, Cecil J., to Total Energy Corporation. Method of operating a drier. 3,635,455, 1-18-72, Cl. 263-52.
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- Johnson, Charles B. Foot rest structure for beds. 3,638,250, 2-1-72, Cl. 5-327.
- Johnson, Charles E., to Procter & Gamble Company. The Detergent composition containing proteolytic enzyme elaborated by thermactinomyces vulgaris ATCC 15734. 3,707,504, 12-26-72, Cl. 252-135.000.
- Johnson, Charles H.: *See—*
- Burkhardt, Lawrence E.; and Johnson, Charles H., 3,703,145.
- Weir, Donald M.; Johnson, Charles H.; and Buchanan, John G., 3,632,068.
- Johnson, Charles H., to United States of America, Navy. Low frequency blocking oscillator. 3,668,557, 6-6-72, Cl. 331-112.000.
- Johnson, Charles J. Fold-up flat topped supports. 3,704,674, 12-5-72, Cl. 108-118.000.
- Johnson, Charles R., to Firestone Tire & Rubber Company, The. Process for the polymerization of conjugated dienes. 3,681,304, 8-1-72, Cl. 260-83.700.
- Johnson, Charles R.; and Moosavian, Seid H., to Firestone Tire & Rubber Company, The. Method of removing volatiles from an elastomer. 3,683,511, 8-15-72, Cl. 34-9.000.
- Johnson, Charles R.; and Henderson, Jack F. Utensil for use in cooking tortillas. 3,693,537, 9-26-72, Cl. 99-426.000.
- Johnson, Charles W.; d/b/a Putter-Craft Company: *See—*
- Du Bois, Clair O., 3,702,703.
- Johnson, Christopher Linley; and Whitmarsh, John Robert William, to Rolls-Royce Limited. Gas turbine engine fuel control system. 3,648,460, 3-14-72, Cl. 60-243.
- Johnson, Clair A., to Texas Instruments, Incorporated. Alloying method. 3,680,199, 8-1-72, Cl. 29-498.000.
- Johnson, Clair Allen, to Texas Instruments, Incorporated. Method of housing semiconductors. 3,657,805, 4-25-72, Cl. 29-589.
- Johnson, Clarence. Weighing apparatus. 3,656,569, 4-18-72, Cl. 177-210.
- Johnson, Clarence A.: *See—*
- Johnson, Edwin S.; Wolk, Ronald H.; and Johnson, Clarence A., 3,700,584.
- Johnson, Clarence A., to Hydrocarbon Research, Inc. Two stage counter-current hydrogenation of coal. 3,679,573, 7-25-72, Cl. 208-10.000.
- Johnson, Clarence S.: *See—*
- McKinley, Larry E.; Evans, William E.; and Johnson, Clarence S., 3,683,370.
- Johnson, Clarence S.; and McKinley, Larry E. Full view diver's mask. 3,671,976, 6-27-72, Cl. 2-14.00c.
- Johnson, Craig E.: *See—*
- Henderson, Larry D.; and Johnson, Craig E., 3,702,271.
- Johnson, Curtis C., to Battelle Development Corporation, The. mesne. Quantitative pulsed transilluminator and method of operation. 3,674,008, 7-4-72, Cl. 128-2.00a.
- Johnson, Daniel: *See—*
- Loft, Arne; and Johnson, Daniel, 3,638,422.
- Johnson, David August, to RCA Corporation. Low level DC amplifier with automatic zero offset adjustment. 3,681,703, 8-1-72, Cl. 330-9.000.
- Johnson, David John, to Holmes, M., Manufacturing & Equipment, Ltd. Tire vulcanizing machine. 3,701,615, 10-31-72, Cl. 425-23.000.
- Johnson, David M.: *See—*
- Spandau, Howard D., 3,641,771.
- Johnson, David R.: *See—*
- Sundberg, Bertil J.; and Luksch, Andreas, 3,632,027.
- Sundberg, Bertil J.; and Luksch, Andreas, 3,680,183.
- Sundberg, Bertil J.; and Luksch, Andreas, 3,705,021.
- Johnson, David W.: *See—*
- Corley, Lawrence G.; and Johnson, David W., 3,648,142.
- Johnson, David W., to Arrow-Hart, Inc. Electric reversing switch. 3,649,780, 3-14-72, Cl. 200-1.
- Johnson, Dennis E.; Woodland, Lawrence R.; Kensler, Charles J.; and Himmelfarb, Philip, to Little, Arthur D., Inc. Apparatus for cell culture. 3,647,632, 3-7-72, Cl. 195-142.
- Johnson, Derwyn C.: *See—*
- Beaulieu, Alexander J.; and Johnson, Derwyn C., 3,696,307.
- Johnson, Dewey F. Chain door latch device. 3,705,504, 12-12-72, Cl. 70-93.000.
- Johnson Diversified, Inc.: *See—*
- Menne, Eugene P., 3,703,262.
- Johnson, Donald Edgar, to Delapena Honing Equipment Limited. Honing tools. 3,672,102, 6-27-72, Cl. 51-204.000.
- Johnson, Donald I.: *See—*
- Hetman, Frank W.; and Johnson, Donald I., 3,694,847.
- Johnson, Donald J.: *See—*
- Pindell, Stuart M., Jr.; Johnson, Donald J.; Fickes, Robert E.; Perry, Malcolm R.; and Radcliffe, Wayne K., 3,635,011.
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- Johnson, Donald L. Method of jet breaking veneer to narrow wood flakes. 3,670,791, 6-20-72, Cl. 144-326.00a.
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- Croasdale, William Herbert; French, Harlan Sumner; Hofschild, Clewell Stephen; and Johnson, Donald Owen, 3,648,741.
- Johnson, Donald P.: *See—*
- Hawkes, Richard B.; and Johnson, Donald P., 3,702,129.

- Johnson, Donald W.: *See—*
- Hay, John A.; and Johnson, Donald W., 3,631,852.
- Johnson, Donald W.; Stovall, Ronald J.; and Wheelock, Larry A., to United States of America, Navy. Portable Morse code signaling device. 3,668,684, 6-6-72, Cl. 340-321.00r.
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- Johnson, Douglas, to General Motors Corporation. Casing joint. 3,655,223, 4-11-72, Cl. 285-39.
- Johnson, Douglas, to General Motors Corporation. Turbine cooling control. 3,663,118, 5-16-72, Cl. 415-116.
- Johnson, Douglas A.: *See—*
- Bayle, Guy P.; and Johnson, Douglas A., 3,680,094.
- Johnson, Doyle A. Hydraulic cylinder support for tractors. 3,659,763, 5-2-72, Cl. 224-42.45.
- Johnson, Duane M.; and Razelton, Donald R., to United States of America, Navy. Pyrotechnic composition. 3,698,968, 10-17-72, Cl. 149-19.000.
- Johnson, Dwight N., to Singer Company, The. Pressure reducing regulator. 3,664,369, 5-23-72, Cl. 137-484.400.
- Johnson, E. F. Company: *See—*
- Bowen, Jack L.; and Ryan, James H., 3,693,132.
- Johnson, Edward B. Silver recovery from photographic wastes. 3,671,222, 6-20-72, Cl. 75-83.000.
- Johnson, Edward J., Jr., to Polaroid Corporation. Silver diffusion transfer process with mercapto-purine antifoggant. 3,642,473, 2-15-72, Cl. 96-29.
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- Johnson, Edward P., to Earl and Wright. Deep sea mining method and apparatus. 3,672,725, 6-27-72, Cl. 299-8.000.
- Johnson, Edwin L. Buckle. 3,703,024, 11-21-72, Cl. 24-68.0cd.
- Johnson, Edwin W., to Westinghouse Electric Corporation. Covered welding electrode. 3,645,782, 2-29-72, Cl. 117-205.
- Johnson, Ernest B.: *See—*
- Villers, Walter H.; and Johnson, Ernest B., 3,677,495.
- Johnson, Ernest D., to Goodyear Tire & Rubber Company, The. Safety brake for passenger conveyor. 3,666,074, 5-30-72, Cl. 198-16.00r.
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- Johnson, Ernest E. Trolley mounted electrical outlet. 3,681,542, 8-1-72, Cl. 191-50.000.
- Johnson, Ernest W.: *See—*
- Norsby, Norrain E.; and Johnson, Ernest W., 3,692,535.
- Johnson, Ernest W., to General Mills, Inc. Simulated cooked egg. 3,640,732, 2-8-72, Cl. 99-114.
- Johnson, Ernest W., to General Mills, Inc. Artificial flavored berries and process of preparing same. 3,682,654, 8-8-72, Cl. 99-103.000.
- Johnson, Everett A.; and Silverman, Daniel. Method and apparatus for authentication of information records. 3,677,465, 7-18-72, Cl. 235-61.70r.
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- Johnson, James Reid, 3,658,003.
- Johnson, James Reid, 3,662,472.
- Johnson, Fatima N.: *See—*
- Razdan, Raj K.; and Johnson, Fatima N., 3,705,161.
- Johnson, Fielding G.; and Green, James A., to Hydrodata, Inc. Hand pump. 3,688,910, 9-5-72, Cl. 210-233.000.
- Johnson, Frances H. Pet door apparatus. 3,690,299, 9-12-72, Cl. 119-1.000.
- Johnson, Francis: *See—*
- Parker, William L.; Johnson, Francis; and Martin, John, 3,697,542.
- Johnson, Francis; and Gulbenk, Alin H., to Dow Chemical Company, The. Process for preparing substituted β -haloacrylamides. 3,657,340, 4-18-72, Cl. 260-557.
- Johnson, Frank Williams: *See—*
- Bush, Stephen Frederick; Shires, Michael John; Johnson, Frank Williams; and Williams, Richard Anthony, 3,707,547.
- Johnson, Franklin W.: *See—*
- Wiley, William H.; and Johnson, Franklin W., 3,686,485.
- Johnson, Fred J.: *See—*
- Austin, Timothy K.; and Johnson, Fred J., 3,682,297.
- Johnson, Fred Lee. Garden tractor. 3,661,212, 5-9-72, Cl. 172-258.
- Johnson, Frederick O.: *See—*
- Watson, John D.; Thompson, Francis T.; and Johnson, Frederick O., 3,666,994.
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- Johnson, Frederick S., 3/4 to Consolidated Concrete Limited. Concrete pump. 3,647,325, 3-7-72, Cl. 417-508.
- Johnson, Frithiof V., to United States of America, Navy. Optical viewing system. 3,697,154, 10-10-72, Cl. 350-174.000.
- Johnson Gage Company, The: *See—*
- Johnson, Lowell C., 3,639,996.
- Johnson, Stanley G., 3,654,892.
- Johnson, Gary L.: *See—*
- La Barge, Robert G.; and Johnson, Gary L., 3,674,858.
- Johnson, Gary N.; and Wilson, Larry E., to Honeywell Inc. Thin film line sensor for measuring magnetic field, pressure, vibration or physical displacement. 3,703,681, 11-21-72, Cl. 324-43.00r.
- Johnson, Gary R.: *See—*
- Kammerer, Archer W., Jr.; and Johnson, Gary R., 3,684,041.
- Kammerer, Archer W., Jr.; and Johnson, Gary R., 3,703,213.
- Johnson, George B.: *See—*
- Dickson, Robert L.; Johnson, George B.; and Hansen, Kirby W., Jr., 3,706,854.
- Johnson, George B., Jr., to Communications Satellite Corporation, mesne. Nutation correction system for spin stabilized satellite. 3,643,897, 2-22-72, Cl. 244-1.
- Johnson, George E.; and Newman, Walter, to Leviton Manufacturing Co., Inc. Lampholder for fluorescent lamps. 3,639,887, 2-1-72, Cl. 339-53.
- Johnson, George E., to Leviton Manufacturing Co., Inc. Lampholder mounting assembly with captive nut. 3,681,594, 8-1-72, Cl. 240-51.110.
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- Johnson, Glenn J.: *See—*
- Pearson, John R.; and Johnson, Glenn J., 3,660,660.
- Johnson, Glenn J. Recirculating portable shower for campers, trailers or automobiles. 3,646,618, 3-7-72, Cl. 4-147.
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- Johnson, Gordon, Company: *See—*
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- Johnson, Gordon L.; and Gannoe, Thomas E., to Sylvania Electric Products, Inc. Multiple contact electrical connector. 3,670,294, 6-13-72, Cl. 339-195.00m.
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- Johnson, Guy L., to United States of America, Navy. Fluidic steering control. 3,706,263, 12-19-72, Cl. 91-388.000.
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- Johnson, Harry B., to GAF Corporation. Roofing factory fume and solid waste disposal system. 3,662,695, 5-16-72, Cl. 110-8.00r.
- Johnson, Harry T., to Battelle Development Corporation, The. Inner vane for rotary devices. 3,640,651, 2-8-72, Cl. 418-269.
- Johnson, Henry V., to United States of America, Army. Buoy. 3,674,225, 7-4-72, Cl. 244-31.000.
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- Johnson, Homer R., to Westvaco Corporation. Methane for regenerating activated carbon. 3,639,265, 2-1-72, Cl. 252-411.
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- Johnson, James C.; and Neider-Westermann, Winfried, to Westinghouse Electric Corporation. Air return scoop for air handling luminaires. 3,668,998, 6-13-72, Cl. 98-40.0d1.
- Johnson, James C., to Hunt Electronics Company. Light dimming system having multiple control units. 3,697,821, 10-10-72, Cl. 317-148.500.
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- Johnson, James W., to Telephonic Equipment Corporation. Spike monitoring apparatus. 3,676,605, 7-11-72, Cl. 179-18.0bc.
- Johnson, Jay; and Gardner, Charles R., to Republic Corporation. Liquid proportioning device. 3,650,434, 3-21-72, Cl. 222-31.
- Johnson, Jesse R., to AVM Corporation. Dual diaphragm short travel actuator. 3,683,753, 8-15-72, Cl. 92-48.000.
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- Johnson, Jimmie. Jig for cabinet door construction. 3,665,986, 5-30-72, Cl. 144-288.
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- Johnson, John G.: *See*—
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- Wharton, Ferdinand D.; Johnson, John H.; Fields, Joseph E.; and Machlin, Lawrence J., 3,655,869.
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- Johnson, John N., to General Motors Corporation. High temperature seal. 3,666,001, 5-30-72, Cl. 277-234.000.
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- Johnson, Joseph A., to Jomar Industries, Inc. Stripper for blow molding machine. 3,700,369, 10-24-72, Cl. 425-139.000.
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- Johnson, Keith I.: *See*—
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- Johnson, Keith M.: *See*—
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- Johnson, Kenneth; and Lense, Robert F., to Rexham Corporation, mesne. Packaging machine for forming and filling bags of different lengths and widths. 3,700,388, 10-24-72, Cl. 53-183.000.
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- Dodgen, John N.; and Johnson, Kenneth R., 3,658,376.
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- Johnson, Kermit B., to Hydraulic Products Corporation. Adjustable hydraulic shock absorber. 3,693,767, 9-26-72, Cl. 188-287.000.
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- Johnson, Lauren L., to General Motors Corporation. Commuting reactor for a three-phase inverter. 3,688,182, 8-29-72, Cl. 321-45.00c.
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Gonta, Stewart J.; Hallis, Thomas, Jr.; and Johnson, Lawrence S., 3,660,336.
- Johnson, Le Roy E.: *See*—
Bergy, Malcolm E.; Hoeksema, Herman; and Johnson, Le Roy E., 3,699,223.
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Miller, Alfred H.; and Johnson, Lee F., 3,673,044.
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- Johnson, Leona M., to ATCO Surgical Supports Co. Foundation garment providing orthopedic support. 3,670,738, 6-20-72, Cl. 128-549.000.
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- Johnson, Lowell C., to Johnson Gage Company, The. Screw thread gage with aligner. 3,639,996, 2-8-72, Cl. 33-199.
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Audiffred, Sidney J.; Johnson, Lowell E.; and Pearce, Shairyl I., 3,673,799.
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Coffin, Louis F., Jr.; and Johnson, Lyman A., 3,652,225.
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- Johnson, Manuel C., to Forum Incorporated. Facia reflector assembly. 3,633,025, 1-4-72, Cl. 240-103.
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Bohne, Frederick G.; and Johnson, Mark O., 3,680,208.
- Johnson, Marlyn D.: *See*—
Pfaffendorf, James L.; and Johnson, Marlyn D., 3,707,023.
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Darling, Alan Sydney; and Selman, Gordon Leslie, 3,672,880.
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- Teague, Ernest Douglas, 3,689,987.
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- Fitzgerald, William M.B., 3,634,934.
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Amos, Charles William; Johnson, Maynard Dale; and Dieckmann, John Jacob, 3,685,329.
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- Johnson, Mike E. Compound movable-sided truck hopper. 3,648,859, 3-14-72, Cl. 214-17.
- Johnson, Miller C.: *See*—
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- Johnson, Milton, to Smith, A. O., Inland Inc., mesne. Method of annealing metal powder. 3,668,024, 6-6-72, Cl. 148-126.000.
- Johnson, Milton C.; d/b/a Audio Research Manufacturing Co.: *See*—
Kusich, Robert A., 3,652,807.
- Johnson, Milton R.: *See*—
Lichtman, Irwin A.; Johnson, Milton R.; Sekula, Leo F.; and Dorn, Robert W., 3,639,616.
- Johnson, Milton W. Mixer. 3,635,449, 1-18-72, Cl. 259-179.
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Yang, Kang; Reedy, James D.; Johnson, Morris A.; and Harwood, William H., 3,649,482.
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Butler, Fred C.; Johnson, Nathaniel M.; and Wallace, Clifford G., 3,683,302.
- Johnson, Neil E.: *See*—
Alper, Allen M.; Doman, Robert C.; Johnson, Neil E.; and McNally, Robert N., 3,666,507.
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Gilbo, Charles F.; and Johnson, Norman A., 3,640,045.
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- Johnson, Oliver Duane, to International Business Machines Corporation. Apparatus and method for converting rotary to harmonic reciprocating motion. 3,706,238, 12-19-72, Cl. 74-573.000.
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- Johnson, Orlo J.; and Reske, Albert E., to Tel-E-Lect, Inc. Mobile aerial tower. 3,631,939, 1-4-72, Cl. 182-2.
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Burch, Robert J.; Johnson, Orville L.; and Mouton, Rene P., 3,682,501.
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Jensen, Robert A.; and Johnson, Orville M., 3,676,266.
- Johnson, Paul C., to Berkley & Company Inc. Display for filamentary product with mutually adjacent segments having contrasting colors. 3,693,905, 9-26-72, Cl. 242-159.000.
- Johnson, Paul E.; Haugh, Clarence G.; Warren, George F.; and Kratky, Bernard A., to Purdue Research Foundation. Herbicide resistant seed carriers and process for manufacture thereof. 3,648,409, 3-14-72, Cl. 47-57.6.
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Vanderveen, John W.; Cheng, Paul J.; Mills, K. Louis, Jr.; Venable, Charles R., Jr.; and Johnson, Paul H., 3,676,070.
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Gibson, Robert G.; Mackin, John G., Jr.; Johnson, Paul K.; and Koop, Francis D., Jr., 3,670,511.
- Johnson, Paul Kingston: *See*—
Koop, Francis Detrich, Jr.; Johnson, Paul Kingston; and Russell, Larry Rayner, 3,641,779.
- Johnson, Paul R.: *See*—
Templin, Robert J.; Johnson, Paul R.; and Falberg, Robert F., 3,645,098.
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Cerveney, Daniel H.; Johnson, Perry T.; and Gaston, Donald H., 3,704,025.
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- Johnson, Philip M.; Dudevior, Wilfried G.; and Northrup, Richard M., to Sanders Associates, Inc. Direction determining system. 3,704,070, 11-28-72, Cl. 356-152,000.
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- Bergmann, Paul F., 3,658,038.
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- Johnson, Ralph A., to Deering Milliken Research Corporation. Apparatus for producing non-woven fabrics. 3,638,290, 2-1-72, Cl. 208-1.
- Johnson, Ralph E.: See—
- Faw, Frederick L.; Johnson, Ralph E.; Warren, Constance A.; and Glenn, Dwight W., 3,678,233.
- Zwirn, Robert; Johnson, Ralph E.; and Sacks, Jacob M., 3,702,405.
- Johnson, Ralph G.; and Fryberger, David, to United States of America, Atomic Energy Commission. Touch actuable data input panel assembly. 3,673,327, 6-27-72, Cl. 178-18,000.
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- Johnson, Ralph W.: See—
- Tucker, Roy G.; Blasenak, David H.; and Johnson, Ralph W., 3,702,607.
- Johnson, Randall Scott; and Imler, Vaughn Roger, to PPG Industries, Inc. Apparatus for press bending glass sheets. 3,682,613, 8-8-72, Cl. 65-289,000.
- Johnson, Randall W. Bezel inner guide frame. 3,662,668, 5-16-72, Cl. 98-40.
- Johnson, Randall W. Enclosure for heat exchange device. 3,671,095, 6-20-72, Cl. 312-352,000.
- Johnson, Ray. Wallboard joint blade. 3,683,496, 8-15-72, Cl. 30-169,000.
- Johnson, Ray L., Jr.: See—
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- Johnson, Ray M., to Cryodry Corporation. System for applying microwave energy to a lossy cylindrical object. 3,665,142, 5-23-72, Cl. 219-10,550.
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- Johnson, Rubeim V. Acoustic ear mold for hearing aid. 3,688,863, 9-5-72, Cl. 181-23,000.
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- Davenport, Richard L.; and Niemiec, Gerald M., 3,696,977.
- Dill, Douglas W., 3,640,916.
- Lajiness, Thomas A., 3,707,541.
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- Samuelson, Leon C., 3,647,119.
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- Klein, Carl F., 3,668,703.
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- Leonard, Robert G.; and Surprise, Chester P., 3,661,009.
- McLean, Michael B., 3,697,781.
- Munch, Otto R., 3,699,991.
- Pedersen, Niels E., 3,645,293.
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- Johnson, Stanley G., II, to H. R. Electronics Company. Multi-price, multi-channel coin control means. 3,687,255, 8-29-72, Cl. 194-1,00n.
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- Johnson, Tilden William. Tire, bead buffer in combination with rim adaptors. 3,653,421, 4-4-72, Cl. 152-158.
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- Johnson, Wade A., to Colgate-Palmolive Company. Enzymatic granules. 3,650,967, 3-21-72, Cl. 252-135.
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- Johnson-March Corporation: See—
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- Johnston, Byron E.; and Taussig, Peter R., to Mobil Oil Corporation. Method of preparing aromatic carboxylic acids. 3,649,681, 3-14-72, Cl. 260-524.
- Johnston, Carey W. Comprehensive tire pressure differential sensing and indicating device. 3,693,149, 9-19-72, Cl. 340-58,000.

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- Johnston, Stephen L., to United States of America, Army. Indirect frequency multiplication system. 3,706,048, 12-12-72, Cl. 331-53.000.
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Habermann, Helmut; Roger, Loyer; and Joly, Pierre, 3,702,208.
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Szente, Pedro A.; and Joly, Robert, 3,671,888.
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Johnson, Joseph A., 3,690,799.
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Johnson, Joseph A., 3,697,210.
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Aronson, Arthur H.; Lichy, Edward J.; Guess, Clifford A.; and Samways, Norman L., 3,661,537.
Bucher, John H.; and Held, John F., 3,671,334.
Dennis, William E., 3,648,359.
Korchynsky, Michael; Grozier, John David; Mihelich, John L.; Bell, John R.; and Luyckx, Leon, 3,666,452.
Korchynsky, Michael; Grozier, John David; and Mihelich, John L., 3,666,570.
Korchynsky, Michael; Grozier, John David; and Mihelich, John L., 3,671,336.
Kuszaj, Alex Mark, 3,673,816.
Manka, Dan Paul, 3,673,854.
Paliwoda, Eugene J., 3,674,084.
Rubin, Robert G., 3,700,485.
Schraeder, Albin E., 3,672,216.
Shellenberger, Donald J., 3,674,248.
Sylvester, Robert A.; and Young, Ronald W., 3,637,998.
Wlodek, Stanley Thaddeus, 3,674,445.
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Wilcox, Thomas L., Jr.; and Jones, Ancil A., 3,642,192.
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Scholes, Geoffrey William; and Jones, Anthony Ronald, 3,689,996.
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Aiani, Richard L.; and Jones, Bill T., Jr., 3,643,124.
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Christman, Willard A.; and Jones, Billy R., 3,697,814.
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Corwin, Howard R.; Hermes, Walter L.; and Jones, Charles, 3,691,792.
Hermes, Walter L.; and Jones, Charles, 3,655,302.
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Bryant, Michael I.; and Jones, Charles E., 3,695,326.
Bryant, Michael I.; and Jones, Charles E., 3,698,983.
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Thorp, William; and Jones, Charles Trevor, 3,662,312.
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Johnston, Lynn M.; Jones, Chester G.; Krebs, Frederick G.; and Redman, Samuel A., 3,631,797.
Johnston, Lynn M.; Jones, Chester G.; Neal, Harold D.; and Redman, Samuel A., 3,636,868.
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Walk, George A.; and Jones, Clifford V., 3,695,603.
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Falk, George L.; and Jones, Daniel F., 3,646,773.
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Mickelson, Grant A.; Jones, Darryl L.; and Baral, William J., 3,706,693.
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Lawrenson, Jack; and Jones, David, 3,656,927.
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Mazur, Robert H.; and Jones, David A., Jr., 3,707,559.
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Harrison, Michael Edward; and Jones, David Charles, 3,634,319.
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Beaudoin, Benoit R.; Cohen, Joseph D.; Jones, David H.; Mari-er, Lester J., Jr.; and Raab, Harry F., Jr., 3,671,392.
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Black, Daniel A.; Ingersoll, Albert A.; York, Ira Bill Lee; and Jones, David O., 3,667,340.
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Heilman, Marlin S.; Kranys, Rudolph J.; and Jones, Donald, 3,701,345.
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Saraceno, Anthony J.; Walters, Reed H.; Jones, Donald B.; and Wiehle, William E., 3,664,950.
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Wise, David F.; Tyndall, R. B.; and Jones, Donald E., 3,701,240.
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Anello, Louis G.; Boghosian, Edward Michael; Jones, Edward S.; Minhas, Pritam S.; Price, Alson K.; and Sweeney, Richard F., 3,641,083.
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Sweeney, Richard F.; Khan, Aziz Urrehman; Price, Alson K.; Jones, Edward Stephen; and Otto, Julian A., 3,674,800.
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Jones, John M., Jr., 3,698,038.
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Davis, Billy D.; and Jones, Elvis E., 3,686,101.
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Fisher, Robert D.; Jones, Ernest W.; and Grossi, Eugene A., 3,645,857.
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Luk, Kraemer D.; Jones, Evan; and Krause, Richard J., 3,653,839.
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Bacon, Robert Elwon; Perry, Ernest John; and Jones, Evan Thomas, 3,690,888.
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Doss, Richard C.; and Jones, Faber B., 3,676,201.
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Cook, John Robert; Delmenico, Jack; and Jones, Francis William, 3,684,430.
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Dewey, Raymond D.; Mapes, Robert S.; and Jones, Garth S., 3,674,926.
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Fredrickson, Walter G.; Jones, George M.; and Thraillkill, Howard A., 3,688,275.
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Wamsley, Robert Alan; Barnett, John Edward; Rose, Kenneth Ralph; and Jones, Gerald Stephan, 3,634,298.
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Moffatt, John G.; and Jones, Gordon H., 3,662,031.
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Shen, Tsung-Ying; Walford, Gordon L.; Witzel, Bruce E.; and Jones, Howard, 3,632,760.
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Pruitt, Ronnie M.; and Jones, Howard D., 3,692,707.
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Dolcimascolo, Charles; Hoffman, Daniel S.; Jones, Hugh L.; and Merck, James E., 3,702,482.
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Gaebele, Rolf; and Jones, Jack H., 3,691,302.
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Cragoe, Edward J., Jr.; and Jones, James H., 3,660,400.
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Andrews, John W.; Schmiel, William J.; Inman, Gene E.; and Jones, James Phillip, 3,643,416.
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Brinks, Floyd J.; Day, Lucian P., Jr.; and Jones, Jerry L., 3,678,867.
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Revoir, William H.; and Jones, John A., 3,662,523.
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- Jones, Keith W., to Northern Technical Services, Inc. Load-registry device. 3,707,076, 12-26-72, Cl. 73-141.00a.
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- Jones, Kenneth James: *See—*
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- Jones, Kenneth L.: *See—*
Cyr, Steven J.; Whelan, Mark W.; and Jones, Kenneth L., 3,633,785.
- Jones, Kenneth Morgan: *See—*
Head, Gordon Edwin; Jones, Kenneth Morgan; and Gendle, Eric, 3,647,362.
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Eichin, Harry Paul; and Jones, Kenneth Moritz, 3,639,130.
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- Jones, Mack C.: *See—*
Willis, Grant N., 3,662,301.
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Riordan, Hugh E.; and Jones, Malcolm D., 3,652,886.
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- Jones, Marvin R., to Cameron Iron Works, Inc. Remotely located apparatus for producing well fluids. 3,646,962, 3-7-72, Cl. 137-594.
- Jones Medical Instrument Company: *See—*
Jones, William C.; and Kootsey, Joseph Mailen, 3,659,590.
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Bell, Cyril Ove Robert; and Jones, Neville Murray, 3,706,665.
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Davies, Philip Hywel; Hobden, Maurice Vernon; Hulme, Kenneth Fraser; and Jones, Oliver, 3,696,038.
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- Kochlinger, Allen W.; and Chrouch, Laurence A., 3,688,414.
- Vieson, John W.; and Baker, William A., 3,670,474.
- Jones, Reginald A.: *See—*
Clark, Wallace; Jones, Reginald A.; and Teeters, James L., 3,701,543.
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Hayes, Lester P.; Jones, Rexford W.; and Thompson, William B., 3,637,385.
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Corbin, Ralph L.; Jones, Richard A.; and Byers, Robert G., 3,666,564.
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Brown, Harvey A.; and Jones, Robert B., 3,682,549.
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- Jones, Robert L., 1/2 to Palm, James T. Mold for casting concrete panels. 3,702,180, 11-7-72, Cl. 249-188.000.
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- Jones, Robert S. Grinding machinery and methods. 3,646,708, 3-7-72, Cl. 51-5.
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- Jones, Roy A. Article of manufacture. 3,648,659, 3-14-72, Cl. 119-1.
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Coleman, William H.; Quinn, Robert C.; Novak, Howard L.; Kalbach, Jack J.; and Jones, Seward L., 3,658,438.
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Nye, William M.; and Jones, Stanley W., 3,671,680.
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- Jones, Terence Leslie: *See—*
Causser, Roy; Farren, John; Jones, Terence Leslie; Taylor, Brian Leslie; and Webster, Ronald Kerry, 3,698,819.
- Jones, Thomas Alwyn: *See—*
Firth, Jack Graham; and Jones, Thomas Alwyn, 3,702,397.
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Burke, William F.; Gihring, Daniel A.; and Jones, Thomas E., 3,666,928.
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Fearnlly, Charles; and Jones, Thomas Ivor, 3,639,290.
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- Jones, Viron V., to Keuffel & Esser Company. Etching alcohol-soluble nylon with aqueous solutions. 3,645,732, 2-29-72, Cl. 96-36.
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Fussell, Calvin Raymond, 3,645,138.
- Jones, Warren E.: *See—*
Kirkham, Jackie L.; and Jones, Warren E., 3,674,992.
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Belue, James C.; and Jones, Weston C., 3,680,218.
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- Jones, William J., to Westinghouse Electric Corporation. Oxygen consumption rate monitor. 3,698,384, 10-17-72, Cl. 128-2.070.
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Wyles, Raymond Allen, 3,636,804.
- Jones, William P., to Dresser Industries, Inc. Oxidation resistant graphite and carbon shapes. 3,666,555, 5-30-72, Cl. 117-228.000.
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Hurst, Norman Ashcroft; Gray, Thomas Edward Horace; and Jones-Hinton, James, 3,705,932.
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Van Alphen, Gerard Herman; Jongeneelen, John; and Van Werd, Johannes Hendricus Franciscus, 3,646,582.
- Jonghe, Yo. Cold and hot rolling process of scrap cars for producing a compact steel mass. 3,653,878, 4-4-72, Cl. 75-63.
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- Jonke, Joseph L.: *See—*
Segerdahl, Roy R.; and Jonke, Joseph L., 3,676,821.
- Jonker, Hendrik: *See—*
De Ruig, Willem Gerbrecht; Molenaar, Arian; and Jonker, Hendrik, 3,637,386.
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- Jonnes, Nelson; and Friedlander, William S., to Minnesota Mining and Manufacturing Company. Deep submergence diving suit and insulative material therefor. 3,660,849, 5-9-72, Cl. 2-2.1.
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Mattsson, Leif Erling M.; and Fredriksson, Karl Garry Kenneth, 3,664,390.
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Von Platen, Baltzar Carl; Jonsson, Finn Lennart; and Trolle, Sten, 3,687,066.
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- Jonsson, Nils Erik Reinhold: *See—*
Liedberg, Kurt Herman; Jonsson, Nils Erik Reinhold; and Svensson, Sten Gunnar Hugo, 3,692,214.
- Jonsson, Nils Gunnar, to Atlas Copco Aktiebolag. Drill string joint breaking means. 3,696,872, 10-10-72, Cl. 173-149.000.
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Stigmark, Karl Adolf Lennart; Jonsson, Nils Ingvar; Lofqvist, Jan Wilhelm; and Stenram, Hakan Christian Mikael, 3,656,456.
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Ekbergh, Evert Oskar; and Jonsson, Per Gustaf, 3,673,338.
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Shea, Frederick L.; Joo, Louis A.; and Martin, Thomas W., 3,668,110.
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Schmidt, Karl Gunther; Joos, Alfred; Mohr, Gunther; and Schneider, Gerhart, 3,634,443.
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- Joosten, Joseph W. Portable band saw. 3,658,102, 4-25-72, Cl. 143-27.
- Joosten, Richard Leo, Sr., to American Can Company. Composite container and package. 3,662,944, 5-16-72, Cl. 229-14.
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Bullard, Edwin R., Jr.; and Joosten, Wesley L., 3,703,828.
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- Jordan, Donald J. Flow direction indicator. 3,691,828, 9-19-72, Cl. 73-188.000.
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Woodward, Jack Thomas Armon; and Jordan, Edward Graham, 3,641,586.
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Epifano, Robert Nicholas; and Jordan, Eugene Leon, 3,700,497.
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Oden'Hal, Fortune; and Jordan, Harry A., 3,652,113.
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Hirsch, Peter M.; Jordan, James A., Jr.; and Lesem, Louis B., 3,642,350.
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- Jordan, Robert L. Oil stick wipers. 3,686,702, 8-29-72, Cl. 15-210.00b.
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Dittel, Friedrich; and Jorns, Peter, 3,674,699.
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Bojic, Milan; and Jorre, Daniel, 3,645,628.
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Hubbard, Charles J., 3,661,464.
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Flegel, George J.; and Zopfi, William L., 3,702,193.
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Jones, Kenneth; Joscelyne, Eric H.; and Burmah Oil Trading Limited, 3,682,781.
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Von Kutepow, Nikolaus; Magin, August; and Joschek, Hans-Ingo, 3,663,578.
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Donohue, Robert J.; and Joseph, Bernard W., 3,700,883.
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Allman, William T., Jr.; Joseph, Charles W.; and Higgins, Ralph G., Jr., 3,669,788.
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Allen, Richard H., 3,693,559.
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Hartling, Donald C.; Joseph, Hawthorne; and Radin, William, 3,698,125.
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Saccomano, Joseph M.; and Ellis, John D., Jr., 3,703,279.
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Luchring, Elmer L., 3,670,123.
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Werner, Hans; Koschinat, Baldur; and Vormbaum, Otto, 3,643,906.
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Jones, David Thomas; Jowett, George Edward; and Webster, Edward Ernest, 3,674,030.
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- Joyner, Frederick B.; Cash, George O., Jr.; and Meyer, Max F., Jr., to Eastman Kodak Company. Decoratable polyolefin plastics. 3,697,465, 10-10-72, Cl. 260-27.00r.
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Heppelmann, Arnold A.; Judd, James L.; and Schwanke, Paul J., 3,632,054.
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Amtsberg, Lester A.; Bilodeau, Paul J.; and Judd, Sebastian F., 3,685,593.
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MacFarlane, Walter J.; and Feer, Lawrence P., 3,693,210.
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Zickefoose, Rox L.; Miller, Gerald G.; and Judge, James R., 3,704,621.
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Spencer, William L.; and Juenger, Richard D., 3,687,277.
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Julie, Loebe, 3,654,547.
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Maurice, Guy; and Jullien, Yves, 3,696,832.
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Schulze, Kurt-Jurgen; and Jung, Joachim, 3,669,761.
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 Carlsson, Per Arvid Emil; Corrodi, Hans Rudolf; Hallhagen, Sven Goran; and Junggren, Ulf Krister, 3,655,737.
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 Lindblad, Lars Alfred; and Kahlbom, Nils Rune, 3,647,668.
 Simonsson, Gunnar Carl Rune, 3,658,419.
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 Munk, Friedrich; and Korfer, Gunter, 3,702,184.
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 Jurgens, Henry A.: See—
 Champ, Robert B.; Jurgens, Henry A.; and Thompson, James O., 3,640,714.
 Jurgens, Jorg: See—
 Eriksson, Axel Fredrik Valdemar; Svard, Per Olov; and Jurgens, Jorg, 3,646,195.
 Jurgensen, David J., to Tektronix, Inc. Amplitude modulation test circuit. 3,702,375, 11-7-72, Cl. 178-5,4tc.
 Jurgensen, Horst: See—
 Thingstad, Hans Kristian; and Jurgensen, Horst, 3,648,378.
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 Wilhelm, Heiner, 3,639,895.
 Jurina, Olga Demidovna: See—
 Bokov, Jury Sergeevich; Vikulina, Ninel Vladimirovna; Dogadkin, Boris Aristarkhovich; Erofeev, Boris Vasilievich; Larina, Anastasia Vasilievna; Lavrishev, Vadim Petrovich; Markov, Vladimir Vladimirovich; Naumova, Sofia Fadeevna; Jurina, Olga Demidovna; an Yarovaya, Galina Dmitrievna, 3,674,496.
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 Gimler, John R.; Jurman, Stephen E.; and Schnettler, Robert W., 3,662,127.
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 Juro Morita: See—
 Ibuki, Satoshi; and Fujiyoshi, Nobuo, 3,632,747.
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 Phillips, Michael; and Jurow, Victor A., 3,706,419.
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 Aitken, Thomas; Anderson, Donald R.; and Jursich, Myron J., 3,674,725.
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 Just, Franz, & Sohne Tradat-Werke: See—
 Rudolf, Heribert, 3,641,934.
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 Justman, Dan B., to Murphy, G. W., Industries, Inc. Raise drilling bit. 3,638,740, 2-1-72, Cl. 175-53.
 Justus, & Co., Dr.: See—
 Hornung, Gerhard, 3,696,534.
 Justus, Edgar J., to Beloit Corporation. Bearing support and drive for controlled crown roll. 3,639,956, 2-8-72, Cl. 29-116.
 Justus Reiker & Co.: See—
 Hornung, Gerhard, 3,686,778.
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 Sanchez, Francois; and Jutras, Matial, 3,686,736.
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 Jutzi, Manfred: See—
 Haberhauer, Karl; Jutzi, Manfred; and Kiess, Reinhold, 3,700,513.
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 Keller, Ernest, 3,646,878.
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 Peters, Edwin F.; and Juveland, Omar O., 3,671,432.
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 Mammino, Joseph; and Jvirblis, Gail D., 3,677,750.
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 MacBean, Donald George, 3,700,194.
 Weir, Donald M.; Johnson, Charles H.; and Buchanan, John G., 3,632,068.
 Woodward, Derrick Ronald, 3,657,067.
 Jwuc, Karl John; and Willison, Donald, to Midland-Ross Corporation. Railway car coupler. 3,637,089, 1-25-72, Cl. 213-153.
 Jylhavaara Osakeyhtio: See—
 Syrjanen, Ahti, 3,672,506.
 K & K Manufacturing Inc.: See—
 Lines, Jerry J., 3,648,662.
 K M S Industries, Inc.: See—
 Thomson, Ernest F., 3,681,540.
 K-D Manufacturing Company: See—
 McFarland, Frederick R.; and Diffenderfer, Walter L., 3,654,686.
 McFarland, Frederick R., 3,635,654.
 McFarland, Frederick R.; and Diffenderfer, Walter L., 3,651,996.
 McFarland, Frederick R.; and Diffenderfer, Walter L., 3,660,905.
 McFarland, Frederick R.; and Diffenderfer, Walter L., 3,670,419.
 McFarland, Frederick R.; and Diffenderfer, Walter L., 3,691,640.
 K-G Industries, Inc.: See—
 Harris, Le Roy S., 3,677,683.
 Harris, Leroy S., 3,674,397.
 K-S-H Inc.: See—
 Conrath, Ralph G.; Stahlhut, Leo G.; and Trippeer, Richard E., 3,661,613.
 K-Tech, Inc.: See—
 Kelly, Cornelius J., Jr., 3,701,077.
 K-Tron Corporation: See—
 Bullivant, Kenneth W., 3,679,010.
 Kaaber, Henning: See—
 Wolff, Per; and Larsen, Hans-Ole, 3,637,539.
 Wolff, Per; and Larsen, Hans-Ole, 3,637,540.
 Kaar, Kenneth B.: See—
 Weyant, Romer G.; and Kaar, Kenneth B., 3,675,800.
 Kaartinen, Nilo H., to Packard Instrument Company, Inc. Apparatus for the preparation of liquid form samples for radioactive isotope tracer studies. 3,682,598, 8-8-72, Cl. 23-262,000.
 Kaasenbrood, Petrus J. C.: See—
 Van Nassau, Petrus J. M.; Brand, Wilhelmus K.; and Kaasenbrood, Petrus J. C., 3,697,521.
 Kaasenbrood, Petrus J. C.; and Taks, Gerardus J. J. M., to Stamicarbon N.V. Preparation of urea in combination with the synthesis of ammonia. 3,647,872, 3-7-72, Cl. 260-555.
 Kaasenbrood, Petrus J. C.; and van Nassau, Petrus J. M., to Stamicarbon N.V. Process for urea production in combination with ammonia synthesis. 3,674,847, 7-4-72, Cl. 260-555,00a.
 Kaasenbrood, Petrus J. C.; and van Nassau, Petrus J. M., to Stamicarbon N.V. Process for preparing melamine from urea. 3,682,911, 8-8-72, Cl. 260-249,70a.
 Kaasenbrood, Petrus J. C., to Stamicarbon N.V. Process for separating off melamine from a hot synthesis gas mixture which contains melamine vapour. 3,697,519, 10-10-72, Cl. 260-249,70p.
 Kaus, Johann, to Keller & Knappich GmbH. Apparatus for dampening garbage in a garbage loading truck. 3,691,648, 9-19-72, Cl. 34-227,000.
 Kabana, Walter P.; and King, Charles B., to United States of America, National Aeronautics and Space Administration. Butt welder for fine gauge tungsten/rhenium thermocouple wire. 3,705,288, 12-5-72, Cl. 219-101,000.
 Kabanov, Viktor Alexandrovich: See—
 Kargin, Valentin Alexeevich; Kabanov, Viktor Alexandrovich; Aliev, Kantamir Vagabovich; and Salimov, Rafail Mamed Ogly, 3,658,942.
 Kargin, Valentin Alexeevich; Polak, Lev Solomonovich; Kabanov, Viktor Alexandrovich; Zubov, Vitaly Pavlovich; and Pankova, Valentina Fedorovna, 3,666,740.
 Kabas, Guglielmo; and Schlapfer, Hans, to Ciba-Geigy AG. Benfofurans. 3,658,833, 4-25-72, Cl. 260-308.
 Kabas, Guglielmo; and Zweidler, Reinhard, to Ciba-Geigy Corporation. 3-Phenyl-7,4-chloropyrazolyl-(1)-coumarins. 3,660,424, 5-2-72, Cl. 260-310.
 Kabay, Steve; and Lesko, Leslie J., to General Motors Corporation. Material-handling bucket. 3,648,391, 3-14-72, Cl. 37-141.
 Kabbe, Hans Joachim; Horstmann, Harald; Plumpe, Hans; Puls, Walter; and Petersen, Siegfried, to Farbenfabriken Bayer Aktiengesellschaft. Antihyperglycaemic agent. 3,689,674, 9-5-72, Cl. 424-326,000.
 Kabbe, Hans-Joachim: See—
 von Konig, Anita; Kabbe, Hans-Joachim; Mader, Helmut; Otto, Rigobert; and Reuss, Helmut, 3,692,527.
 Kabbe, Hans-Joachim; and von Konig, Anita, to Agfa-Gevaert Aktiengesellschaft. Process for the production of photographic images. 3,695,880, 10-3-72, Cl. 96-52,000.
 Kabel, Heinrich, to Hellermann, Paul, G.m.b.H. Apparatus for tying a bundle of cables. 3,670,782, 6-20-72, Cl. 140-93,2.
 Kabel, Heinrich, to Hellermann, Paul, G.m.b.H. Tool for tying bundles of cables. 3,695,308, 10-3-72, Cl. 140-93,400.
 Kabel, Karl, Gesellschaft mit beschränkter Haftung: See—
 Lange, Joachim, 3,636,893.
 Kabel- und Gutehoffnungshutte Aktiengesellschaft: See—
 Kienzler, Wolfgang; and Burgdorf, Marten, 3,670,554.
 Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft: See—
 Klebl, Wolfram, 3,672,230.
 Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft: See—
 Breitenbach, Otto, 3,639,860.
 Bretting, Klaus, 3,641,482.
 Eilhardt, Bernd; and Ziemek, Gerhard, 3,637,975.
 Eilhardt, Bernd; and Pelz, Diethart, 3,703,034.
 Kauder, Knut, 3,643,702.
 Kindis, Eugen, 3,692,925.
 Kipp, Adolf; and Payk, Heinz, 3,646,799.
 Klebel, Wolfram, 3,641,309.
 Kuypers, Hubert, 3,646,972.
 Kuypers, Hubert; and Schatz, Friedrich, 3,656,331.
 Lehnert, Gunther, 3,657,809.
 Martin, Helmut, 3,668,573.
 Martin, Helmut, 3,681,717.
 Martin, Helmut, 3,696,882.
 Matthieu, Paul; Leuchs, Ottmar; Glander, Fritz; Kuypers, Hubert; and Pelz, Diethart, 3,698,440.
 Rohrig, Herbert; and Loy, Fritz, 3,694,279.

- Scheffler, Ernst; and Ziemek, Gerhard, 3,644,987.
 Scheufele, Erwin, 3,642,057.
 Spinner, Georg; Luehring, Juergen; and Ahrens, Guenter, 3,654,577.
 Stoeber, Rolf, 3,645,079.
 Tuschy, Eckhard; and Niggemann, Theodor, 3,641,858.
 Tuschy, Eckhard; and Niggemann, Theodor, 3,648,553.
 Wagele, Rolf, 3,692,063.
 Ziemek, Gerhard, 3,648,356.
 Ziemek, Gerhard; and Schatz, Friedrich, 3,670,772.
 Kabel-und Metallwerke Gutehoffnungshutte Aktiengesellschaft: *See—*
 Ziemek, Gerhard; and Hannover, Eilhardt, 3,634,597.
 Kabelschlepp Gesellschaft mit beschränkter Haftung: *See—*
 Heidrich, Klaus; Krewitt, Alfred; Loos, Kurt; and Pithan, Fritz, 3,664,619.
 Loos, Kurt, 3,658,113.
 Kabisch, Gerhard E.; and Raupach, Siegfried H., to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Oxidation-reduction regeneration of noble metal catalysts used in hydrogen peroxide production, 3,694,376, 9-26-72, Cl. 252-413.000.
 Kabitzke, Karlheinz: *See—*
 Pelz, Willibald; Kabitzke, Karlheinz; Freytag, Karl-Heinz; Vetter, Hans; Danhauser, Justus; and Bockly, Erich, 3,684,513.
 Vetter, Hans; Danhauser, Justus; Kabitzke, Karlheinz; Marx, Paul; Melzer, Arnfried; Pelz, Willibald; and Puschel, Walter, 3,705,035.
 Kablaoui, Mahmoud S.; and Kolaian, Jack H., to Texaco Inc. Drilling fluid, 3,642,622, 2-15-72, Cl. 252-8.5.
 Kablaoui, Mahmoud S., to Texaco Inc. 2-Substituted benzene acetate manufacture, 3,644,480, 2-22-72, Cl. 260-473.
 Kablaoui, Mahmoud S.; and Kolaian, Jack H., to Texaco Inc. Drilling fluid, 3,657,122, 4-18-72, Cl. 252-8.5.
 Kabler, Donald J., to Varian Associates, Vacuum connector for connecting replaceable evacuated devices to an evacuated system, 3,638,401, 2-1-72, Cl. 55-158.
 Kabuki, Kimiaki; and Murai, Bunjiro, to Tokyo Shibaura Electric Co., Ltd. Method for rendering a synthetic resinous material anti-static, 3,647,727, 3-7-72, Cl. 260-18.
 Kabushika Kaisha Suwa Seikosha: *See—*
 Tarusawa, Yasutaka, 3,686,883.
 Kabushikaisha Yokogawa Denki Susakusho (Yokogawa) Electric Works, Ltd.: *See—*
 Yagi, Eiichi; Kojima, Kenko; Ikeda, Hisayuki; Yauchi, Shiro; Shimizu, Tsutomu; Tamalate, Tokutaro; and Ikegawa, Hiroyuki, 3,680,841.
 Kabushiki Kaisha: *See—*
 Ataka, Hisanori, 3,656,421.
 Hoashi, Kenzo, 3,655,004.
 Yamajima, Kaneo, 3,655,003.
 Kabushiki Kaisha Aiden: *See—*
 Kuroda, Koichi, 3,634,208.
 Kabushiki Kaisha Bambi: *See—*
 Oka, Motoo, 3,665,564.
 Kabushiki Kaisha Daiichi Keisu Seisakusho: *See—*
 Kawashima, Mitsuo, 3,660,873.
 Kabushiki Kaisha Daini Seikosha: *See—*
 Hirose, Yoshiyuki, 3,638,417.
 Kurihara, Kazuo, 3,673,788.
 Matsura, Eiichi, 3,706,197.
 Miwa, Akihiro, 3,653,204.
 Morita, Kazuhiko, 3,676,994.
 Morita, Katsuhiko; and Yamamoto, Yoshio, 3,676,995.
 Ogawa, Koichi, 3,653,200.
 Ogawa, Koichi; and Tajima, Takao, 3,653,201.
 Sakuma, Tadashi, 3,675,411.
 Kabushiki Kaisha Doboku Sokki Senta: *See—*
 Nakane, Hiroshi, 3,657,929.
 Kabushiki Kaisha Fujii Kogyo: *See—*
 Fujii, Shozo, 3,642,095.
 Kabushiki Kaisha Fujikoshi: *See—*
 Nishimoto, Takashi, 3,680,575.
 Kabushiki Kaisha Gakushu Kenkyusha: *See—*
 Furuoka, Hideto, 3,649,099.
 Takeuchi, Kouji, 3,645,013.
 Kabushiki Kaisha Hattori Tokaiten: *See—*
 Kawamura, Toshiki; and Ohneda, Tohru, 3,682,376.
 Kawamura, Toshiki; Ohneda, Tohru; Nomura, Yasuaki; and Taguchi, Kikuo, 3,685,725.
 Kitai, Kiyoshi, 3,646,860.
 Kitai, Kiyoshi, 3,657,986.
 Kitai, Kiyoshi, 3,678,821.
 Kitai, Kiyoshi, 3,683,768.
 Kitai, Kiyoshi, 3,691,923.
 Kitai, Kiyoshi, 3,699,866.
 Kabushiki Kaisha Hitachi Seisakusho: *See—*
 Ichikawa, Kiyoshi; and Fujioka, Akira, 3,656,133.
 Itoh, Yokichi; Shirasaka, Nobuhiko; and Tauchi, Shoji, 3,661,727.
 Ono, Minoru; Momoi, Toshimitsu; and Kawachi, Youji, 3,643,137.
 Takumi, Kenji; Yamamoto, Hisashi; and Ikegami, Hidetsugu, 3,681,599.
 Yamamoto, Manabu; Tomiyama, Shunsuke; and Saito, Susumu, 3,651,367.
 Kabushiki Kaisha Hokusan: *See—*
 Miyahara, Hideaki; Kawai, Tamiyosi; and Takatsuki, Michio, 3,651,523.
 Kabushiki Kaisha Hosokawa Funtakogaku Kenkyusho: *See—*
 Hosokawa, Masuo; Yokoyama, Tohei; and Urayama, Kiyoshi, 3,665,768.
 Kabushiki Kaisha Ideal: *See—*
 Sato, Yoshio, 3,658,077.
 Sato, Yoshio, 3,672,382.
 Yasuda, Hiroyuki; and Arai, Choji, 3,651,822.
 Yasuda, Hiroyuki; and Arai, Choji, 3,677,274.
 Kabushiki Kaisha Inouye Shokai: *See—*
 Kurokawa, Akitsugu; and Maczawa, Shigeru, 3,637,328.
 Kabushiki Kaisha Kamitsu Seisakusho: *See—*
 Nakai, Shoji; and Higuchi, Akio, 3,672,589.
 Kabushiki Kaisha Kawai Gakki Seisakusho: *See—*
 Obayashi, Nobuharu, 3,700,781.
 Kabushiki Kaisha Kawai Gakki Susakusho: *See—*
 Watanabe, Takashi, 3,675,320.
 Kabushiki Kaisha Kimatsu Seisakusho (Komatsu Mfg., Ltd.): *See—*
 Taki, Hiroyuki; Inouye, Kazuo; Sakaki, Naruhiko; and Futamata, Masayuki, 3,633,461.
 Kabushiki Kaisha Kobunshi Kako Kenkyujo: *See—*
 Yazawa, Masahide, 3,632,733.
 Yazawa, Masahide, 3,687,607.
 Kabushiki Kaisha Kokuei Kikai Seisakusho: *See—*
 Hatanaka, Yoshihiro; Abe, Masahiro; Oshima, Takeo; and Akioka, Toshio, 3,652,081.
 Inoue, Kumei; and Iguchi, Masayuki, 3,670,177.
 Inoue, Shigejiro; and Iguchi, Masayuki, 3,652,827.
 Shigemori, Hideto; and Yamamoto, Akio, 3,652,833.
 Shigemori, Hideto; and Yamamoto, Akio, 3,652,834.
 Kabushiki Kaisha Komatsu Seisakusho: *See—*
 Kado, Matayuki; and Mita, Masazo, 3,668,973.
 Kita, Masaaki, 3,695,090.
 Muraki, Kiichi; and Yoda, Tadashi, 3,680,521.
 Osaka, Takashi, 3,687,152.
 Terai, Akio; Kawamura, Eiji; Fukumoto, Hisashi; and Aoki, Hidekatsu, 3,696,879.
 Uenoyama, Masaru; and Yaoeda, Makoto, 3,656,496.
 Kabushiki Kaisha Komatsu Seisakusho (Komatsu Ltd.): *See—*
 Aoki, Yasuo, 3,664,777.
 Aoyama, Ryojo; and Koiwai, Akira, 3,633,464.
 Aoyama, Ryojo; Koiwai, Akira; and Yamada, Kenji, 3,654,758.
 Ninomiya, Kenji, 3,633,463.
 Ninomiya, Kenji, 3,638,772.
 Watanabe, Makoto; and Kitayama, Naoyuki, 3,633,467.
 Kabushiki Kaisha Koparu: *See—*
 Arai, Kiyoyuki, 3,646,869.
 Arisaka, Kunio; and Takizawa, Toshikazu, 3,698,299.
 Hayami, Tadao, 3,658,276.
 Hayami, Tadao, 3,666,357.
 Kaneko, Katsumi, 3,687,046.
 Kikuchi, Tomio; and Arai, Kiyoyuki, 3,636,850.
 Kikuchi, Tomio; and Arai, Kiyoyuki, 3,641,902.
 Kikuchi, Tomio; and Arai, Kiyoyuki, 3,675,548.
 Kikuchi, Tomio; and Arai, Kiyoyuki, 3,690,229.
 Kikuchi, Tomio; Yamaguchi, Hiroshi; and Arai, Kiyoyuki, 3,698,298.
 Murata, Kingo; and Shinohara, Katsutoshi, 3,697,770.
 Okada, Takaaki, 3,641,545.
 Okada, Takaaki, 3,648,103.
 Okada, Takaaki, 3,651,744.
 Shimizu, Munetaka, 3,650,193.
 Wada, Yasuhiro, 3,633,473.
 Wada, Yasuhiro, 3,682,058.
 Watanabe, Minoru; and Takayama, Masao, 3,687,027.
 Kabushiki Kaisha Kumahira Seisakusho: *See—*
 Hinojara, Kango; Nishino, Tadashi; and Harada, Hiroshi, 3,704,825.
 Kabushiki Kaisha Maekawa Seisakusho: *See—*
 Inoue, Waihei, 3,633,006.
 Kabushiki Kaisha Meidensha: *See—*
 Himi, Hitoshi; Shinmon, Yasuhiro; and Teshima, Tokuro, 3,679,852.
 Irie, Kouhei; Kobayashi, Misao; and Shimamura, Masaru, 3,668,458.
 Kabushiki Kaisha Meiki Seisakusho: *See—*
 Kaji, Seiho, 3,695,464.
 Kabushiki Kaisha Meikiseisakusho: *See—*
 Ichikawa, Shigeo; and Nagawa, Keizo, 3,632,246.
 Yamauchi, Toshio, 3,664,524.
 Kabushiki Kaisha Meinan Seisakusho: *See—*
 Hasegawa, Katsuji, 3,668,753.
 Kabushiki Kaisha Morita Seisakusho: *See—*
 Ota, Sadayasu, 3,666,939.
 Kabushiki Kaisha Musashino Kagaku Kenkyujo: *See—*

- Yamada, Isao, 3,635,969.
 Kabushiki Kaisha Nakamura Seisakusho: *See—*
 Nakamura, Masaya, 3,690,657.
 Shirou, Mende, 3,701,295.
 Kabushiki Kaisha Ohara Kogaku Garasu Seizoshos: *See—*
 Suzuki, Ichizo; Yasui, Hideo; and Nanba, Kazuhiko, 3,669,696.
 Kabushiki Kaisha Okuma Seisakusho: *See—*
 Masuda, Yukio, 3,671,694.
 Kabushiki Kaisha Osaka Packing Seizoshos: *See—*
 Kubo, Kazuhiko, 3,679,446.
 Kabushiki Kaisha Ricoh: *See—*
 Ando, Sadanao; and Miyagawa, Funihiro, 3,638,609.
 Ando, Sadanao, 3,640,424.
 Ando, Sadanao; and Matsumoto, Nobuki, 3,643,566.
 Ando, Sadanao, 3,674,362.
 Arai, Fumiaki; Ohta, Wasaburo; Kurokawa, Junki; Usui, Noriyuki; Shimizu, Sakae; and Tanaka, Tetsuo, 3,682,632.
 Ataka, Hisanori; and Mikami, Nobunao, 3,641,900.
 Ataka, Hisanori, 3,641,904.
 Ataka, Hisanori, 3,642,360.
 Doi, Manabu, 3,636,442.
 Endo, Katutoshi; and Tashiro, Isao, 3,658,522.
 Fujimoto, Sakae, 3,641,897.
 Fujimoto, Sakae, 3,641,901.
 Fujimoto, Sakae, 3,658,164.
 Fujimoto, Sakae, 3,659,938.
 Fujimoto, Sakae; and Imai, Tadayuki, 3,667,365.
 Fujimoto, Sakae, 3,686,991.
 Fukushima, Yoshio, 3,639,037.
 Fukushima, Yoshio, 3,644,030.
 Fukushima, Yoshio, 3,658,414.
 Fuwa, Zyoichi, 3,654,478.
 Hideo, Hashimoto, 3,687,540.
 Hiruma, Kenji, 3,633,485.
 Hiruma, Kenji, 3,643,573.
 Ikeda, Itsuo; and Katagiri, Nobuyuki, 3,650,738.
 Imai, Tadayuki, 3,685,419.
 Iwamoto, Minoru, 3,682,543.
 Iwata, Susumu; and Oida, Etuo, 3,650,750.
 Kadowaki, Tatsusuke, 3,643,894.
 Kadowaki, Tatsusuke, 3,643,896.
 Kadowaki, Tatsusuke, 3,669,383.
 Kadowaki, Tatsusuke, 3,677,624.
 Kadowaki, Tatsusuke, 3,684,210.
 Kadowaki, Tatsusuke, 3,707,326.
 Kakichi, Tokusaburo; and Akiyama, Hideaki, 3,642,225.
 Kakiuchi, Tokusaburo; and Akiyama, Hideaki, 3,642,358.
 Kakiuchi, Tokusaburo; and Akiyama, Hideaki, 3,650,378.
 Kasuya, Kazuhiko; Ohta, Wasaburo; and Okuno, Zenjiro, 3,640,751.
 Katagiri, Nobuyuki; and Akiyama, Hideaki, 3,679,453.
 Kato, Saburo, 3,638,954.
 Kawazu, Motoaki, 3,679,292.
 Kimura, Taro, 3,683,808.
 Kobayashi, Yugo; and Yamkami, Tsutomu, 3,635,467.
 Kobayashi, Yugo, 3,687,548.
 Koizumi, Masami, 3,634,952.
 Koizumi, Yutaka, 3,649,126.
 Kolly, Andre, 3,681,576.
 Kubo, Keishi; and Matsumura, Sadao, 3,642,483.
 Kubo, Keishi; and Sakai, Kiyoshi, 3,649,422.
 Kubo, Keishi; Sakai, Kiyoshi; and Miyabe, Shuichi, 3,661,678.
 Kubo, Keishi; and Sakai, Kiyoshi, 3,675,013.
 Kubo, Keishi; and Sakai, Kiyoshi, 3,682,763.
 Kundo, Kishichiro; Iwata, Hiroo; Yamaguchi, Nario; Shimizu, Sakae; and Tubuko, Kazuo, 3,640,709.
 Kurasawa, Makoto, 3,695,753.
 Kurihara, Makoto, 3,638,548.
 Machida, Hazime; and Okuno, Zenjiro, 3,639,244.
 Machida, Hazime; Tsurugi, Akira; Okuno, Zenjiro; and Mizuno, Akinori, 3,657,130.
 Machida, Hazime; and Okuno, Zenjiro, 3,668,127.
 Maruyama, Shoji; and Kaneko, Yoshikazu, 3,658,881.
 Maruyama, Shoji; Saito, Tadashi; Yoshida, Shigeaki; and Shimada, Masaru, 3,699,000.
 Miyagawa, Fumihiro, 3,650,190.
 Miyagawa, Fumihiro, 3,683,777.
 Ogawa, Mutsuo, 3,694,629.
 Ohta, Wasaburo; and Sakai, Katsuo, 3,677,751.
 Ohta, Wasaburo; Kasuya, Kazuhiko; and Yamauchi, Masayuki, 3,678,895.
 Ohta, Wasaburo; and Soga, Setsuo, 3,697,172.
 Ohta, Wasaburo, 3,697,268.
 Okuno, Zenjiro; and Machida, Hazime, 3,639,243.
 Okuno, Zenjiro; Mizuno, Akinori; and Kondoh, Ikuyo, 3,640,863.
 Okuno, Zenjiro; and Mizuno, Akinori, 3,681,243.
 Okuyama, Susumu, 3,669,539.
 Orima, Isamu, 3,636,552.
 Saito, Tadashi; Shimada, Masaru; and Sakai, Koyoshi, 3,664,840.
 Shimizu, Sakae; and Kimura, Tsuguo, 3,682,629.
 Shimoda, Tsunezo; Hikawa, Koji; Yahata, Shuichi; and Obata, Mitsugu, 3,650,614.
 Shirashi, Syuhei; and Saito, Tadashi, 3,645,741.
 Suzuki, Minoru, 3,667,385.
 Suzuki, Minoru, 3,689,062.
 Suzuki, Shigeru, 3,635,468.
 Suzuki, Shigeru; Sugita, Keiji; Koizumi, Yutaka; and Kanno, Tadaaki, 3,651,727.
 Suzuki, Shigeru, 3,661,456.
 Suzuki, Shigeru, 3,682,548.
 Suzuki, Takami; and Uozumi, Osamu, 3,636,316.
 Tanaka, Tetsuo; Masumura, Masao; Toguchi, Akihiro; and Yamaguchi, Mario, 3,671,507.
 Tanaka, Yoshitsugu, 3,643,776.
 Tubuko, Kazuo; Yamaguchi, Nario; and Shimizu, Sakae, 3,649,263.
 Ukai, Takeshi, 3,699,388.
 Umahashi, Minoru, 3,659,837.
 Umahashi, Minoru, 3,686,483.
 Umahashi, Minoru; Yamakawa, Hitoshi; and Suzuki, Motoyuki, 3,690,015.
 Von Grabe, Walther, 3,634,716.
 Von Grabe, Walther, 3,663,101.
 von Grabe, Walther, 3,699,920.
 Yamada, Hiroshi, 3,704,836.
 Yamaguchi, Nario; Shimizu, Sakae; and Tubuko, Kazuo, 3,671,235.
 Yamaguchi, Nario; Shimizu, Sakae; and Tubuko, Kazuo, 3,704,122.
 Yamaguchi, Nario; Shimizu, Sakae; Tubuko, Kazuo; Kondo, Kishichiro; and Iwata, Hiroo, 3,707,402.
 Yoshida, Shigeaki; and Saito, Tadashi, 3,667,955.
 Yoshida, Shigeaki, 3,689,268.
 Kabushiki Kaisha Ricoh, mesne: *See—*
 McGourty, Thomas K., 3,698,629.
 Kabushiki Kaisha Rinnai Seisakusho: *See—*
 Mizutani, Katsushi, 3,695,818.
 Soma, Shinichi, 3,676,047.
 Takase, Tadayoshi; and Mizuno, Sueo, 3,704,703.
 Kabushiki Kaisha Ryobi Seisakusho: *See—*
 Morishita, Yasomatsu, 3,670,985.
 Kabushiki Kaisha Saginomiya Seisakusho: *See—*
 Mamiya, Shigeo; and Yajima, Ryoichiro, 3,671,913.
 Kabushiki Kaisha Sango: *See—*
 Mihara, Masao, 3,651,846.
 Kabushiki Kaisha Sankyo Seiki Seisakusho: *See—*
 Komatsu, Fumito; and Adachi, Goro, 3,691,286.
 Kabushiki Kaisha Sasakiseisakusho: *See—*
 Sasaki, Tadajiro, 3,672,249.
 Kabushiki Kaisha Sato Seisakusho: *See—*
 Yoshimori, Nobuo; Nagayama, Tsuguo; and Sato, Toshio, 3,680,695.
 Kabushiki Kaisha Satomi Denki Shokai: *See—*
 Nagoshi, Kazuhiro; and Yagi, Yoshimasa, 3,642,555.
 Kabushiki Kaisha Shikishima Tipton: *See—*
 Kobayashi, Hisamine, 3,691,409.
 Kabushiki Kaisha Suwa Seikosha: *See—*
 Tsuruishi, Yuki, 3,703,838.
 Kabushiki Kaisha Suwa Seikosha: *See—*
 Aizawa, Susumu; Nakamura, Koichi; Tsuruishi, Yuki; and Oguchi, Kikuo, 3,648,453.
 Fujimori, Motoyuki, 3,695,033.
 Fujimori, Yoshiaki, 3,672,158.
 Fujimori, Yoshiaki, 3,676,996.
 Fujimori, Yoshiaki, 3,676,997.
 Fujimori, Yoshiaki, 3,704,584.
 Fujita, Kinji, 3,678,680.
 Fukushima, Takekazu, 3,706,198.
 Hirabayashi, Masahide, 3,668,865.
 Imahashi, Issei, 3,657,874.
 Kurita, Masahiro, 3,690,058.
 Mitsui, Hiromitsu, 3,668,861.
 Miyasaka, Mamoru, 3,668,863.
 Miyasaka, Mamoru, 3,668,864.
 Miyasaka, Mamoru, 3,672,156.
 Miyasaka, Mamoru; Kurita, Hirohisa; and Furihata, Hideo, 3,678,682.
 Ono, Tsunayoshi, 3,691,756.
 Saito, Toshiaki; and Oki, Toshihiko, 3,678,681.
 Toshihiko, Oki, 3,688,490.
 Yamamura, Katsumi; and Kasai, Masami, 3,647,576.
 Yamamura, Katsumi; Harigaya, Hiroshi; Kasai, Kazutomo; and Asahina, Michio, 3,677,744.
 Yamaoka, Goichi, 3,646,673.
 Kabushiki Kaisha Suwa Seikosha: *See—*
 Kurita, Masahiro, 3,691,753.
 Kabushiki Kaisha Suwa Seikosha: *See—*
 Kasai, Masami; and Fujimori, Yoshiaki, 3,690,062.
 Miyashita, Kanji, 3,696,608.
 Kabushiki Kaisha Suwa Seikosha: *See—*

- Yahana, Yakamori, 3,688,492.
 Kabushiki Kaisha Suwa Sukosha: *See—*
 Fujimori, Yoshiaki, 3,662,537.
 Kurita, Hirohisa, 3,706,196.
 Kabushiki Kaisha Tadano: *See—*
 Yunoki, Tadao; and Fujiyasu, Toshio, 3,672,257.
 Kabushiki Kaisha Tadano Tekkoshu: *See—*
 Ohniwa, Kazuhiro; and Ishikawa, Seiti, 3,633,460.
 Kabushiki Kaisha Tamron: *See—*
 Mito, Hiroshi, 3,657,988.
 Kabushiki Kaisha Tokai Kika Denki Seisakusho: *See—*
 Shimizu, Tetsuji; Sumida, Hajime; Ueno, Sinichi; Usami, Susu-
 mo; and Tatamatu, Sinzi, 3,634,652.
 Kabushiki Kaisha Tokai Rika Denki Seisakusho: *See—*
 Suzuki, Masaru, 3,671,758.
 Kabushiki Kaisha Tokai Rika Denki Seisakusho: *See—*
 Hinachi, Matatoyo; and Mori, Toyoshi, 3,684,907.
 Hukuta, Masakazu, 3,632,913.
 Inariba, Tokuzo, 3,693,034.
 Inoue, Masahiko; and Tojo, Ken, 3,639,951.
 Onishi, Takekazu, 3,680,335.
 Shimizu, Tetsuji; and Iwakura, Makoto, 3,676,734.
 Shimizu, Tetsuji; Yoshida, Takao; Otake, Sugako; Sumida,
 Hajime; and Ueno, Sinichi, 3,694,690.
 Suzuki, Masaru; and Hyodo, Masayoshi, 3,641,493.
 Suzuki, Masaru; Hyodo, Masayoshi; and Kurihara, Yoshiaki,
 3,662,336.
 Suzuki, Masaru; and Murakami, Yukinobu, 3,671,691.
 Tanaka, Hiroshi; Naito, Shozo; and Shimizu, Tetsuji, 3,656,103.
 Kabushiki Kaisha Tokai Rika Denki Seisakusho Nishikasugaigu:
See—
 Hayashi, Yoshihiro, 3,689,881.
 Kabushiki Kaisha Tokai Rika Denki Seisakusho: *See—*
 Seo, Kiyokazu; and Hayashi, Yoshihiro, 3,693,147.
 Kabushiki Kaisha Towa Denki: *See—*
 Watanabe, Takashi, 3,673,907.
 Kabushiki Kaisha Toyoda Jidoshokki Seisakusho: *See—*
 Iritani, Saihei, 3,651,763.
 Iwaka, Seiji; and Mori, Hiroo, 3,705,643.
 Morikawa, Takashi; Higake, Motomatsu; Sumi, Mitsugu; Urifu,
 Tohoru; and Yamamoto, Manabu, 3,696,605.
 Ohta, Shuji, 3,638,761.
 Shimizu, Masahiko, 3,666,128.
 Takagi, Nobuo; and Takiguchi, Takashi, 3,691,622.
 Tooka, Takuzo; Nozaki, Choji; and Kono, Kiichi, 3,704,579.
 Kabushiki Kaisha Toyota Chuo Kenkyusho: *See—*
 Chiku, Takewo, 3,655,845.
 Chiku, Takewo, 3,666,561.
 Chiku, Takewo; Ninomiya, Kiyoshi; and Hayashi, Hiroaki,
 3,707,589.
 Fujikake, Kenji; Mutoh, Norio; and Yagi, Yuji, 3,691,833.
 Hikida, Ryotaro; Awano, Taikichi; Itoh, Junichiro; Danno, At-
 sushii; Matsui, Masao; Inaba, Mitigi; and Isogai, Mituyuki,
 3,683,659.
 Hikida, Ryotaro; Awano, Taikichi; Danno, Atsushi; and Kojima,
 Yoshiro, 3,686,917.
 Hikida, Ryotaro; and Ogasawara, Takeo, 3,693,765.
 Ishii, Katsuyuki, 3,662,234.
 Kimura, Takashi; Majima, Azusa; Hamamoto, Hiroshi; and
 Awano, Yoji, 3,674,472.
 Kobayashi, Akira; and Miyao, Takayuki, 3,657,970.
 Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara,
 Yoshiteru; and Asakura, Kouichi, 3,668,917.
 Komatsu, Noboru; Arai, Tooru; and Mizutani, Masayoshi,
 3,671,297.
 Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara,
 Yoshiteru; and Asakura, Kouichi, 3,703,093.
 Kusunoki, Kaneyoshi; Asakura, Tatsumi; Nakakawa, Masahiro;
 Komatsu, Noboru; and Arai, Tooru, 3,680,626.
 Ninomiya, Kiyosha; and Ohara, Hideaki, 3,663,497.
 Nozaki, Choji; Kono, Kiichi; Sakai, Toshikiko; and Kamigaito,
 Osami, 3,696,604.
 Sumiyoshi, Masaharu; Ito, Osamu; Wakamatsu, Hisato; Kato,
 Takaaki; and Kawai, Hisasi, 3,680,410.
 Suzuki, Toshio; Oshima, Yujiro; and Kataoka, Masao,
 3,659,564.
 Tooka, Takuzo; Nozaki, Choji; and Kono, Kiichi, 3,704,579.
 Umehara, Hanji; Kimura, Takashi; and Hamamoto, Hiroshi,
 3,706,550.
 Kabushiki Kaisha Toyota Chuo Kenyu Sho: *See—*
 Hayashi, Yasutaka; and Arakawa, Hideo, 3,695,023.
 Kabushiki Kaisha Tsuchiya Seisakusho: *See—*
 Saito, Nobuo; and Namiki, Kyoji, 3,672,510.
 Kabushiki Kaisha Ueno Kikai Seisakusho: *See—*
 Takeuchi, Yasuji, 3,681,824.
 Kabushiki Kaisha Yamadaku Senkojo: *See—*
 Ohya, Shoichi, 3,660,014.
 Kabushiki Kaisha Yashica: *See—*
 Enomoto, Nobuaki, 3,643,469.
 Nakayama, Yasuhiko, 3,637,301.
 Kabushiki Kaisha Yashika: *See—*
 Ogihara, Mamoru, 3,707,114.
 Kabushiki Kaisha Yaskawa Denki Seisakusho: *See—*
 Hiratsuka, Michio; Ishii, Jiro; Goto, Tadahiko; and Takeda, At-
 suo, 3,681,982.
 Nakajima, Kazuo, 3,694,720.
 Oshima, Goro; and Nishitake, Shigeki, 3,659,465.
 Kabushiki Kaisha Yoshikawa Seisakusho: *See—*
 Yoshikawa, Kunihiko, 3,645,151.
 Kabushiki Kaishi Akashi Seisakusho: *See—*
 Mashimo, Misao, 3,653,256.
 Kabushiki-Kaisha Shashin Kagaku Kamigyo-ku: *See—*
 Wada, Koji; and Ishida, Akira, 3,685,726.
 Kabushiki-Kaisha Tokai Denki Seisakusho: *See—*
 Suzuki, Masaru, 3,648,101.
 Kabushiki-Kaisha Tokai Rika Denki Seisakusho: *See—*
 Mizuno, Tadasi, 3,673,829.
 Suzuki, Masaru, 3,665,130.
 Suzuki, Masaru; and Kawai, Yoshihiro, 3,699,286.
 Kabushikikaisha Aichidenkikosakusho: *See—*
 Yamamoto, Osamu, 3,673,682.
 Kabushikikaisha Asahi Shimbunsha: *See—*
 Hosokawa, Jun-ichi, 3,660,785.
 Kabushikikaisha Copal: *See—*
 Sato, Takayoshi, 3,648,053.
 Sato, Takayoshi, 3,678,823.
 Sato, Takayoshi, 3,682,057.
 Sato, Takayoshi, 3,698,302.
 Sato, Takayoshi, 3,701,910.
 Kabushikikaisha G.I.C.: *See—*
 Kabori, Yasuaburo, 3,645,556.
 Kabushikikaisha Meiki Seisakusho: *See—*
 Nagawa, Keizo, 3,642,404.
 Kabushikikaisha Nakatani: *See—*
 Kasahara, Yasuo, 3,702,980.
 Kabushikikaisha Nippon Recruit Center: *See—*
 Kobayashi, Hiroshi; and Shiba, Sukeyori, 3,691,313.
 Kabushikikaisha Tokai Rika Denki Seisakusho: *See—*
 Shimizu, Tetsuji; and Iwakura, Makoto, 3,651,335.
 Kabushikikaisha Tokyo Keiki (Tokyo Keiki Co., Ltd.): *See—*
 Hirokawa, Yoichi; and Sato, Masatoshi, 3,665,289.
 Kabushikikaisha Tokyo Keiki (Tokyo-Keiki Co., Ltd.): *See—*
 Horikiri, Toshihiko; and Tsuji, Ryuta, 3,703,911.
 Kabushikikaisha Tokyo Keiki Seizoshu: *See—*
 Hojo, Takeshi, 3,701,200.
 Miura, Takahiro; and Yamamoto, Miaki, 3,673,553.
 Tsuchiya, Teruo, 3,636,910.
 Kabushikikaisha Tokyo Keiki Seizoshu (Tokyo Keiki Seizoshu Co.,
 Ltd.): *See—*
 Hayakawa, Osamu, 3,680,962.
 Kabushikikaisha Tokyo Keiki Seizoshu (Tokyo Keiki Seizoshu Co.,
 Ltd.): *See—*
 Hirokawa, Yoichi, 3,665,281.
 Hirokawa, Yoichi; and Masuzawa, Isao, 3,696,282.
 Kawada, Shin-ichi; Yoichi, Hirokawa; and Masuzawa, Isao,
 3,656,043.
 Kawada, Shin-ichi, 3,699,657.
 Sato, Shosuke; Saito, Shigeru; and Kobayashi, Saburo,
 3,665,309.
 Kabushikikaisha Tokyo Keiki (Tokyo Keiki Co., Ltd.): *See—*
 Hirokawa, Yoichi; and Sato, Masatoshi, 3,679,960.
 Kabushikikaisha Tokyo Seizoshu (Tokyo Keiki Seizoshu Co., Ltd.):
See—
 Ohyama, Takashi; Kawashige, Akira; and Miyashita, Takeo,
 3,697,991.
 Kabushikikaisha Yokogawa Denki Seisakusho (Yokogawa Electric
 Works, Ltd.): *See—*
 Saito, Bunjiro, 3,683,344.
 Kabushikikaisha Yokogawa Denki Seisakusho: *See—*
 Tamate, Tokutaro; Yagi, Eiichi; and Ikeda, Hisayuki, 3,677,925.
 Kabushikikaisha Yokogawa Denki Seisakusho (Yokogawa Electric
 Works, Ltd.): *See—*
 Fuchie, Tadayoshi, 3,665,216.
 Sugiyama, Takashi; Kurata, Satoshi; and Yamaguchi, Keiki,
 3,636,458.
 Tomota, Miyaji; Ishikawa, Yutaka; Yamasaki, Hiroo; and Kurita,
 Yoshio, 3,691,830.
 Kacalek, Josef; Bartos, Josef; and Stransky, Miroslav, to Elitex,
 Zavody textilniho strojirenstvi. Device for transforming a rotary
 motion into a linear reversing motion, particularly for textile
 machines. 3,661,019, 5-9-72, Cl. 74-58.
 Kacarb Products Corporation, mesne: *See—*
 Orkin, Stanley S., 3,685,878.
 Kacergis, John A.: *See—*
 Ort, Eldon L.; Smith, John K.; and Kacergis, John A.,
 3,649,909.
 Kachavos, Louis J.: *See—*
 Robbins, Robert; Whitty, Arthur R.; and Kachavos, Louis J.,
 3,697,876.
 Kachi, Atsuyuki: *See—*
 Kaku, Kanui; Asaba, Mitsuo; Gondo, Yasaka; Kachi, Atsuyuki;
 and Maizumoto, Satoshi, 3,683,049.

- Konotsune, Shiro; Kachi, Atsuyuki; Tonoike, Takao; and Mori,
 Kinya, 3,669,948.
 Kachi, Masayasu: *See—*
 Chiba, Matsubei; Kito, Kiyoharu; Mizutani, Hiroshi; and Kachi,
 Masayasu, 3,659,438.
 Kachioff, Yuval: *See—*
 Cristy, Albert B.; and Kachioff, Yuval, 3,695,424.
 Kachita Co., Ltd.: *See—*
 Tamura, Takaaki; Kato, Tsutomu; and Sakamoto, Kazuyoshi,
 3,663,457.
 Tamura, Takaaki; and Kato, Tsutomu, 3,672,824.
 Kachkanov, Nikolai Nikolaevich: *See—*
 Shepelyakovsky, Konstantin Zakharovich; Ushakov, Boris Kon-
 stantinovich; Devyatkin, Vasily Petrovich; Devyatkov,
 Vladimir Fedorovich; Shakhov, Vasily Ivanovich; Kachkanov,
 Nikolai Nikolaevich; Gazarov, Leon Alexandrovich; Pchel-
 kina, Valentina Mikhailovna; Drbunov, Mikhail Alexan-
 drovich; and Vologdin, Vladislav Valentinovich, 3,682,519.
 Kachman, Robert D.: *See—*
 Verge, Kenneth W.; Kachman, Robert D.; and Read, Ronald G.,
 3,700,362.
 Kachnick, Joseph E., to Western Company of North America, The.
 Supercharge hose. 3,665,967, 5-30-72, Cl. 138-137.
 Kacmarcik, Thomas J.: *See—*
 Southam, Donald L.; Weigl, William; and Kacmarcik, Thomas
 J., 3,691,948.
 Southam, Donald L.; and Kacmarcik, Thomas J., 3,699,887.
 Kacmarcik, Thomas J.; and Norton, Robert K., to Harris-Intertype
 Corporation. Feeder unit. 3,667,663, 6-6-72, Cl. 225-100,000.
 Kacmarcy, Charles W. Roof bolting method and assembly.
 3,647,262, 3-7-72, Cl. 299-11.
 Kacmarek, Andrew J.: *See—*
 Solomon, Irvine J.; Keith, James N.; and Kacmarek, Andrew J.,
 3,634,483.
 Kacmarek, Bernard; and Lander, Vern, to Workman Electronic
 Products, Incorporated. Circuit breaker switch. 3,686,601, 8-22-
 72, Cl. 337-66,000.
 Kaczmarek, Thomas D.: *See—*
 Agnew, Frank R.; Byrne, Francis P.; Kaczmarek, Thomas D.;
 Kriege, Owen H.; Gainer, Gordon C.; and Luck, Russell M.,
 3,689,224.
 Kaczmarek, Edward Zbigniew: *See—*
 Harvey, Peter; Greene, David James; and Kaczmarek, Edward
 Zbigniew, 3,689,002.
 Kaczynski, Clarence J.: *See—*
 Bernas, Richard J.; and Kaczynski, Clarence J., 3,679,170.
 Kadah, Zaghoul; and Rolland, Gerard, to Syracuse Electronics Cor-
 poration. Delay-on-make solid state controller. 3,633,047, 1-4-72,
 Cl. 307-252.
 Kade, James Henry: *See—*
 Warner, Clifford George; and Kade, James Henry, 3,698,057.
 Kader, Reiner, to Kautex-Werk Reinold Hagen. Apparatus for mak-
 ing hollow articles of thermoplastics. 3,632,267, 1-4-72, Cl. 425-
 326.
 Kadera, Vaclav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri;
 Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska,
 Katerina; Janc, Zbynek; Nemec, Adolf; Penkava, Jiri; and Vit-
 kovec, Zdenek, to CKD Praha, oborovy podnik. Mounting of stato
 blades in axial compressors. 3,647,312, 3-7-72, Cl. 415-149.
 Kaderbek, Charles J.; and Vojir, Franks, to Guardian Electric Manu-
 facturing Company. Programmable lever switch with snap-in
 detachable cam detent means. 3,684,850, 8-15-72, Cl. 200-
 166,05d.
 Kadi, Frank J.; Longworth, Ralph C.; and Meier, Richard N., to Air
 Products and Chemicals, Inc. Flexible cryogenic liquid transfer
 system and improved support means therefor. 3,706,208, 12-19-
 72, Cl. 62-55,000.
 Kadin, Saul B.: *See—*
 McManus, James M.; and Kadin, Saul B., 3,634,453.
 Kadin, Saul B., to Pfizer Inc. Oxobenzofuran carboxamides.
 3,676,463, 7-11-72, Cl. 260-343,300.
 Kadison Laboratories, Inc.: *See—*
 Delaney, William E., 3,672,914.
 Kadison, Leon A.: *See—*
 Maguire, Eileen; and Kadison, Leon A., 3,660,293.
 Maguire, Eileen; and Kadison, Leon A., 3,671,289.
 Maguire, Eileen; and Kadison, Leon A., 3,686,016.
 Maguire, Eileen; and Kadison, Leon A., 3,689,303.
 Kadison, Leon A.; and Maguire, Eileen, to Crown City Plating Co.
 Chromic acid conditioner for treatment of polymeric resin sur-
 faces for electroless plating. 3,668,130, 6-6-72, Cl. 252-79,200.
 Kadner, Gunter: *See—*
 Leuschner, Gerhard; Pietsch, Peter; and Kadner, Gunter,
 3,678,648.
 Kado, Masaru: *See—*
 Kimura, Ichiro; Sugiyama, Hironari; and Kado, Masaru,
 3,682,616.
 Nishimura, Tatsumi; Shinohara, Hiroshi; Takita, Kiyoshi; and
 Kado, Masaru, 3,646,043.
 Nishimura, Tatsumi; Inoue, Tadahiko; Tsuboi, Takeo; and Kado,
 Masaru, 3,671,640.
 Nishimura, Tatsumi; Okuda, Itsuki; and Kado, Masaru,
 3,686,191.
 Nishimura, Tatsumi; Nagasawa, Sumio; Shinohara, Hiroshi; and
 Kado, Masaru, 3,692,902.
 Kado, Masaru; Kimura, Ichiro; and Sugiyama, Hironari, to Kumaiai
 Chemical Industry Co., Ltd. and Hodogaya Chemical Co., Ltd.
 Herbicidal compositions. 3,671,216, 6-20-72, Cl. 71-100,000.
 Kado, Matayuki; and Mita, Masazo, to Kabushiki Kaisha Komatsu
 Seisakusho. Hydraulic oil hoses. 3,668,973, 6-13-72, Cl. 91-
 41,000.
 Kadokura, Sadao; and Miura Kazuchika, to Teijin Limited. Motor
 control with pulse comparison means. 3,681,670, 8-1-72, Cl. 318-
 318,000.
 Kadomsky, Dmitry Evgenievich; and Nazarov, Alexandr Sergeevich.
 Apparatus for damping oscillations in three-phase bridge conver-
 ters. 3,668,507, 6-6-72, Cl. 321-11.
 Kadono, Shinji, to Hitachi, Ltd. Semiconductor memory. 3,686,515,
 8-22-72, Cl. 307-238.
 Kadono, Tetsuro: *See—*
 Okumura, Tamotsu; and Kadono, Tetsuro, 3,677,410.
 Kadono, Yoji; Ogasawara, Yukio; and Kamo, Keizo, to Toyota
 Jidosha Kogyo Kabushiki Kaisha. Method of fixing a bearing cup
 in a Hooke S type universal joint. 3,701,189, 10-31-72, Cl. 29-
 148,40a.
 Kadota, Osamu: *See—*
 Kimura, Kenji; Watando, Kousaku; and Kadota, Osamu,
 3,665,848.
 Kadota, Shinsuke: *See—*
 Saito, Noriaki; and Kadota, Shinsuke, 3,706,853.
 Kadota, Tokuzo: *See—*
 Nakano, Minoru; Tsutsumi, Takashi; and Kadota, Tokuzo,
 3,634,796.
 Kadotani, Makoto; and Isobe, Seishiro, to Central Glass Co., Ltd.
 Process for the production of high quality synthetic cryolite.
 3,656,894, 4-18-72, Cl. 23-88.
 Kadow, Hermann, to Siemens Aktiengesellschaft. Memory arrange-
 ment. 3,648,262, 3-7-72, Cl. 340-174.
 Kadow, Hermann, to Siemens Aktiengesellschaft. Selective circuit
 for a data storer with optional access. 3,707,704, 12-26-72, Cl.
 340-173,00r.
 Kadowaki, Koju: *See—*
 Nakano, Mamoru; Kadowaki, Koju; Komura, Isao; Koshikawa,
 Takeo; and Oshida, Bunzi, 3,703,550.
 Kadowaki, Takashi; Iwasaki, Takao; Mitsuta, Yutaka; and Shimada,
 Kenji, to Denki Kagaku Kogyo Kabushiki Kaisha and Nippon
 Alpin Rubber Co., Ltd. Method for recovering a solvent and an
 elastomeric polymer from an elastomeric polymer solution.
 3,691,143, 9-1-72, Cl. 260-94,70r.
 Kadowaki, Takashi; and Itoyama, Kenji, to Denki Kagaku Kogyo
 Kabushiki Kaisha. Chloroprene rubber composition. 3,703,568,
 11-21-72, Cl. 260-890,000.
 Kadowaki, Tatsusuke, to Kabushiki Kaisha Ricoh. Film movement
 direction switching device for small movie projectors. 3,643,894,
 2-22-72, Cl. 242-201.
 Kadowaki, Tatsusuke, to Kabushiki Kaisha Ricoh. Device for
 switching between film advance and film rewind in movie projec-
 tors. 3,643,896, 2-22-72, Cl. 242-205.
 Kadowaki, Tatsusuke, to Kabushiki Kaisha Ricoh. Movie projector
 adapted to use both a film cartridge and an open reel. 3,669,383,
 6-13-72, Cl. 242-192,000.
 Kadowaki, Tatsusuke, to Kabushiki Kaisha Ricoh. Movie projector
 for use with a film cartridge or reel. 3,677,624, 7-18-72, Cl. 352-
 73,000.
 Kadowaki, Tatsusuke, to Kabushiki Kaisha Ricoh. Automatic film
 feed device for small movie projectors using a film cartridge.
 3,684,210, 8-15-72, Cl. 242-192.
 Kadowaki, Tatsusuke, to Kabushiki Kaisha Ricoh. Automatic film re-
 wind device for movie projectors of the small type. 3,707,326, 12-
 26-72, Cl. 352-124,000.
 Kadowaki, Yoshio: *See—*
 Hosoda, Kirokuro; Shiina, Naonori; Kadowaki, Yoshio; and
 Nakae, Hiroyuki, 3,696,059.
 Kadri, Fred Vassaf, to Bell Telephone Laboratories, Incorporated.
 DC to DC converter with voltage regulation through pulse width
 modulation by control of the distribution of flux variations in a
 dual core transformer. 3,660,749, 5-2-72, Cl. 200-2.
 Kadron, Stanley F.; Eisenhauer, Gary L.; Pryor, David J.; and
 Chacon, Raul J., to Bendix Corporation, The. ADF with remote
 digital tuning. 3,704,423, 11-28-72, Cl. 325-458,000.
 Kadasai Denshim Denwa Kabushiki Kaisha: *See—*
 Nakagome, Yukio; Teramura, Hiroichi; Fukata, Yasuo; and
 Ando, Sumitoshi, 3,668,328.
 Kadyshchev, Vladimir Alexandrovich: *See—*
 Erlykin, Ivan Ivanovich; Vasin, Alexandr Ivanovich; Korotkov,
 Mikhail Mikhailovich; Maximov, Vadim Yakovlevich; Mat-
 veev, Ivan Ivanovich; Kadyshchev, Vladimir Alexandrovich; Vol-
 kov, Vladimir Vladimirovich; Firsell, Vladlen Borisovich; Bul-
 latkin, Vladimir Dmitriyevich; Malekhanov, Igor Evgenievich;
 and Suldin, Stanislav Nikolaevich, 3,693,570.
 Kaeding, Dieter: *See—*
 Emmel, Ludwig Friedrich; and Kaeding, Dieter, 3,660,572.

- Kaeding, Warren W.: *See—*
Etherington, Robert W., Jr.; and Kaeding, Warren W., 3,706,807.
- Kachs, Heinrich: *See—*
Detterbeck, Heinrich; and Kachs, Heinrich, 3,636,937.
- Kaelin, Joseph Richard. Spinning top for the ventilation of liquids. 3,637,196, 1-25-72, Cl. 261-91.
- Kaempfen, Charles E. Composite structure. 3,677,432, 7-18-72, Cl. 220-3,000.
- Kaempfer, Gerhard P.: *See—*
Panter, Peter D.; Denis, Claude P-E.; and Kaempfer, Gerhard P., 3,698,028.
- Kaempfen, Henry Xavier, to American Cyanamid Company. Bis oxazoles as brighteners for fibers and plastics. 3,653,943, 4-4-72, Cl. 117-33.5.
- Kaempfer, Gerhard P.: *See—*
Panter, Peter D.; Denis, Claude P-E.; and Kaempfer, Gerhard P., 3,688,325.
- Kaempgen, Dieter: *See—*
Klenk, Ludwig; Kaempgen, Dieter; Kersting, Rolf; and Porrmann, Herbert, 3,687,772.
- Kaempgen, Dieter; Schmidt, Willi J.; and Seifried, Walter, to Kalle Aktiengesellschaft. Process and apparatus for compressing string-forming polymer substances by mechanical vibration. 3,653,948, 4-4-72, Cl. 117-65.2.
- Kaeppli, Viktor: *See—*
Entschel, Roland; Kaeppli, Viktor; and Mueller, Curt, 3,632,302.
- Kaercher, Ralph William; and Peschke, John Ralph, to American Can Company. Plastic film for container end closure. 3,704,804, 12-5-72, Cl. 220-53,000.
- Kaes, Karl: *See—*
Classen, Franz; Kaes, Karl; Labrot, Gunter; and Pape, Heinz, 3,649,237.
- Kaeser, Ernst K.: *See—*
Ringland, William L.; and Kaeser, Ernst K., 3,641,467.
Ringland, William L.; and Kaeser, Ernst K., 3,705,343.
- Kaesslin, Oscar E. Clothes pole and shelf combination. 3,665,868, 5-30-72, Cl. 108-29.
- Kaess, Frank R.: *See—*
Lee, Wilfred J.; and Kaess, Frank R., 3,690,466.
- Kaess, Franz, to Sueddeutsche Kalkstickstoff-Werke Aktiengesellschaft. Deoxidation of aluminum-killed molten steel. 3,649,253, 3-14-72, Cl. 75-129.
- Kaessen, Donald A.: *See—*
Conery, William J.; and Kaessen, Donald A., 3,650,481.
Conery, William J.; and Kaessen, Donald A., 3,704,078.
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Ito, Akihiko; Nakase, Yoshiaki; Yoshida, Masaru; Sakamoto, Masahiro; Kaetsu, Isao; Iwai, Tadashi; Hayashi, Koichiro; and Okamura, Seizo, 3,686,085.
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Takahashi, Mitsuo; Ito, Koji; and Kaga, Sadao, 3,694,127.
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Hobo, Nobuhito; Natsume, Yoshimi; and Kaga, Sumihoro, 3,685,526.
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Shimizu, Junichi; and Kaga, Toshio, 3,664,927.
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Sato, Shui; Nakajima, Tomio; Shono, Masayuki; and Kagami, Teruo, 3,663,209.
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Potak, Yakov Mikhailovich; Orzhekhovskiy, Julian Felixovich; Sachkov, Vladimir Vladimirovich; Kagan, Efim Solomonovich; Valdman, Anna Ivanovna; Shpagina, Nadezhda Nikolaevna; Poplavko-Mikhailov, Mikhail Vasilievich; Fomin, Alexandr Pavlovich; and Natapov, Smon Leibovich, 3,690,869.
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Land, Edwin; Ferrari, Leonard A.; Kagan, Sholly; and McCann, John J., 3,651,252.
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Budman, Moisei Izrailevich; Kaganovsky, Frederik Isaakovich; Kapitanov, Nikolai Ivanovich; Karzov, Jury Nikolaevich; Nadtochenko, Andrei Fedorovich; Slavetsky-Kotvitsky, Eduard Sebestyanovich; and Shorokhov, Leonid Pavlovich, 3,668,921.
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Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Podola, Nikolai Vasilievich; Bondarenko, Oleg Petrovich; Leibenzon, Semen Abramovich; Kaganovsky, Gary Petrovich; Smolyakov, Vadim Filimonovich; Eltsov, Konstantin Sergeevich; Gabuev, Georgy Kharitonovich; and Gladky, Dmitry Fedorovich, 3,693,700.
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Suvorov, Boris V.; Kagarlitsky, Alfred Davydovich; Kan, Iskra Ivanovna; and Lebedeva, Olga Borisovna, 3,689,491.
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Matsuno, Akira; Sasame, Takao; Shimizu, Ikuzo; Kizu, Humio; and Kagawa, Hiroyuki, 3,660,173.
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Tanaka, Masao; Kagawa, Tsuneo; Mochizuki, Kazuo; and Kohagura, Masahiro, 3,655,514.
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Kurose, Tadashi; Kagaya, Ryuichi; Ono, Kunio; and Kanda, Kimio, 3,689,828.
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Yamagishi, Kazuo; Kageyama, Osamu; and Numa, Yoshiaki, 3,654,094.
Yamagishi, Kazuo; Kageyama, Osamu; and Numa, Yoshiaki, 3,663,574.
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Goi, Mitsuhiro; Kageyama, Satoru; and Mizuno, Nobuo, 3,634,349.
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Uraya, Toru; and Kageyama, Shusuke, 3,659,989.
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Ueda, Isao; Kageyama, Takao; and Inomata, Isao, 3,675,165.
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Furst, Andor; Kagi, Dieter; Muller, Marcel; and Muller, Peter, 3,644,438.
Furst, Andor; Muller, Peter; Muller, Marcel; and Kagi, Dieter, 3,676,467.
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Okuda, Kazuo; and Kagimoto, Syozo, 3,695,601.
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Enright, Dennis J.; Kahabka, Richard D.; and Miller, Donald F., 3,699,501.
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Beller, Wilbert E.; and Kahale, Abed G., 3,662,475.
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Warneke, Heinz; and Kahl, Melchior, 3,643,511.
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Gross, Franz; Kahl, Paul; and Wiehler, Wolf, 3,634,723.
Gross, Franz; Kahl, Paul; and Mammach, Peter, 3,646,485.
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Kahl, Gerald J.; and Guidi, Guido N., 3,705,533.
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Lindblad, Lars Alfred; and Kahlbom, Nils Rune, 3,647,668.
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Moberly, Charles W.; and Kahle, Gerald R., 3,642,744.
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Fischer, John P.; and Kahler, Vern R., 3,636,918.
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Gilbert, Lloyd A., 3,658,103.
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Haynes, Harvey H.; Kahn, Lawrence F.; and Hoofnagle, Rodger A., 3,704,679.
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Stemmer, August L.; Kahn, Paul; and Stubstad, James A., 3,683,422.
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Kahn, Leonard R., 3,648,186.
Kahn, Leonard R., 3,683,130.
Kahn, Leonard R., 3,684,838.
Kahn, Leonard R., 3,688,197.
Kahn, Leonard R.; and Gordon, Robert R., 3,696,298.
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Chester, Arthur N.; Kahng, Dawon; and Kosicki, Bernard B., 3,649,867.
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Yoshida, Mitsuo; Kai, Hisao; and Yamane, Tetsuo, 3,654,104.
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Awazu, Kenzo; Matsunaga, Kazu; Muto, Katsutoshi; Kai, Junjiro; and Oi, Kyoko, 3,673,103.
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Fiedler, Gustav, 3,649,903.
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Yamanaka, Takashi; Miyauchi, Rinichi; Fujita, Hisaya; and Kaieda, Nobuo, 3,704,415.
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Osuga, Hiroshi; Kaiho, Isao; and Shimizu, Hiroshi, 3,658,944.
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Kobori, Yasuhiro; and Morita, Yukiji, 3,693,433.
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Mulcahy, Harry W.; Bushnell, Eldon W.; and Kaim, John W., 3,679,028.
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Hubner, Gerhard; and Kainzmaier, Helmut, 3,646,077.
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Balding, George H., 3,643,258.
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Breeze, Eric G.; and Sabel, John O., 3,653,044.
- Kaiser, Agnes: *See—*
Kaiser, Henry J., 3,707,279.
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Bell, Norman; and Lam, Hung-Kei H., 3,676,077.
Carpenter, Ralph L.; and Zuchowski, Richard C., 3,653,073.
Christian, Daniel T.; Look, Melvin; Nobell, Albert; and Armstrong, Thomas S., 3,654,194.
Dorsey, Geoffrey A., Jr., 3,672,972.
Dorsey, Geoffrey Austin, Jr., 3,639,221.
Drawsky, Ronald H., 3,680,530.
Fetzer, Maurice C.; Sprowl, John D.; and Mohondro, William R., 3,649,227.
Finnegan, Walter D., 3,639,974.
Finnegan, Walter D., 3,650,941.
Finnegan, Walter D., 3,664,816.
Horn, Hans P., 3,646,096.
Hublou, Frank E.; and Lenox, Timothy L., 3,633,213.
Kilpatrick, Stanley A.; and Niethammer, Woodard A., 3,703,097.
Lahrson, Allan E.; Hublou, Frank E.; Zuchowski, Richard C.; Vannucci, Robert J.; Lenox, Timothy L.; and Geary, David S., 3,633,176.
Langewis, Cornelis, 3,678,725.
Lawlor, Andrew W., 3,651,559.
Maurer, Joseph M., 3,667,185.
Mohondro, William R.; and Fetzer, Maurice C., 3,694,272.
Nowak, Thomas A., 3,642,054.
Nowak, Thomas A., 3,665,998.
Nuscher, Edwin H.; and Slater, Jack D., 3,676,235.
Nylander, Alfred F., 3,642,454.
Perry, Robert E., 3,635,130.
Pitzer, Thomas D.; Metzger, John A.; and Lamberty, John M. (said Pitzer and said Metzger assors. to), 3,642,188.
Plichta, Dietmar G., 3,673,899.
Richter, Robert K.; and Shkredka, Jurek, 3,701,380.
Riggs, Milton D., 3,666,082.
Ross, Richard J.; and Tjon, Harry X., 3,697,205.
Sanderford, Freeman M.; and Ray, Jack C., 3,699,041.
Scherer, John G., 3,661,737.
Shkredka, Jurek, 3,651,955.
Shkredka, Jurek, 3,689,713.
Smith, Richard L., 3,669,855.
Wong, Winston A., 3,661,657.
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Stout, Thomas C.; and Kaiser, Andrew J., 3,705,022.
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- Murphy, Charles F.; Webber, J. Alan; Kaiser, Gary V.; Van Heyningen, Earle M.; Wright, Ian G.; and Cooper, Robin D. G., 3,641,014.
- Wright, Ian G.; and Kaiser, Gary V., 3,660,395.
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- Storb, Uwe; Kaiser, Herbert; and Kaiser, Gunter, 3,702,748.
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- Kaiser, Herbert: See—
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- Killin, King D.; and Lieungh, Ellis H., 3,648,655.
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- Stone, Joseph K.; Beck, Peter J.; and Prince, Edward J., 3,666,445.
- Wortman, Stephen, 3,687,436.
- Young, Robert R., 3,631,993.
- Young, Robert R., 3,669,288.
- Kaiser, Karl: See—
- Czekay, Arno; Kramer, Bruno; and Kaiser, Karl, 3,682,877.
- Kaiser, Kent: See—
- Kitchens, Garry C.; Hochstetler, Alan R.; and Kaiser, Kent, 3,678,119.
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- Hekkanen, Eero M.; and Tokola, Alpo J., 3,641,774.
- Ovando, Hugo H., 3,654,419.
- Kaiser, Werner: See—
- Abendroth, Paul; and Kaiser, Werner, 3,703,283.
- Kaiser, Willard D.: See—
- Ridgway, Merrill L.; and Kaiser, Willard D., 3,707,255.
- Kaiser, Wolfgang: See—
- Hittmair, Paul; Kaiser, Wolfgang; Nitzsche, Siegfried; and Wohlfarth, Ernst, 3,644,434.
- Nitzsche, Siegfried; Kaiser, Wolfgang; Wohlfarth, Ernst; and Hittmair, Paul, 3,647,725.
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- Kaisser, Horst: See—
- Frey, Egon; and Kaisser, Horst, 3,654,452.
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- Kaito, Takeo: See—
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- Kaitronics: See—
- Wong, Janet C.; and Chao, Sidney C., 3,662,158.
- Kaitz, Vincent A.: See—
- Gilmour, Richard C.; Kaitz, Vincent A.; and Lemberger, Adolph W., 3,705,525.
- Kaji, Keiji: See—
- Akazawa, Hakuichi; Washio, Shigeaki; Kaji, Keiji; and Fujita, Shisao, 3,645,677.
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- Kajita, Hiroyuki: See—
- Noda, Masajiro; Kajita, Hiroyuki; and Kuwayama, Koji, 3,700,402.
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- Koizumi, Takao; and Kajita, Takao, 3,646,646.
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- Kajiya, Shigeru: See—
- Iwakura, Yoshio; Uno, Keikichi; Kajiya, Shigeru; Kitada, Yoshihiro; Kusushita, Takao; and Iijima, Kunio, 3,632,536.
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- Hart, Harry Patrick; Kakalec, Robert John; and Walk, Ralph, 3,699,424.

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- Hanaoka, Takemi; Kakehashi, Toshiro; Toyomasu, Ryota; and Yata, Tomio, 3,704,316.
- Kakei, Takehiko: See—
- Ikegami, Yoshizo; Abe, Kuniomi; Nagai, Maskazu; Fukuda, Susumu; and Kakei, Takehiko, 3,633,484.
- Kaken Kagaku Kabushiki Kaisha: See—
- Misato, Tomomasa; Huang, Keng Tang; Shirato, Shiroh; Seino, Akio; Nakamura, Yuko; Aizawa, Shojiro; and Taguchi, Ryusuke, 3,657,422.
- Kaken Kogyo Kabushiki Kaisha: See—
- Sakato, Yajiro; Ina, Kazuo; Yamamoto, Yukitsune; and Morishita, Harumi, 3,645,755.
- Kakenyaku Kako Kabushiki Kaisha: See—
- Ikemoto, Masahiko; Ito, Kiyoshi; Kimura, Kazuhiko; and Nakanishi, Teruo, 3,662,036.
- Kakhiani, Shalva Viktorovich: See—
- Kiselev, Anatoly Efimovich; Mgebrishvili, Nadar Nikolaevich; Rokva, Marlen Mikhailovich; Makhatadze, Iosif Konstantinovich; Kakhiani, Shalva Viktorovich; Oganov, Sergei Ivanovich; Bakuradze, Georgy Valeryanovich; and Badalov, Petr Mikhailovich, 3,648,475.
- Kakhniashvili, Avtandil Semenovich: See—
- Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimber, Jury Abramovich; Kantor, Ilya Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhanelidze, Vazna Venediktovich; Topolyanky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, 3,689,010.
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- Kakijima, Todomu: See—
- Ohtani, Yoshio; Fukushima, Akihiko; and Kakijima, Todomu, 3,636,933.
- Kakimoto, Toshio: See—
- Chibata, Ichiro; Kakimoto, Toshio; Shibatani, Takeji; and Nishimura, Noriyuki, 3,698,999.
- Kakinami, Masanori: See—
- Yanagi, Masana; Nakamura, Itaru; Ohosugi, Masayuki; Takizawa, Kiyos; Kakinami, Masanori; and Sano, Chikara, 3,658,634.
- Kakinuma, Atsushi: See—
- Arima, Kei; Tamura, Gakuzo; and Kakinuma, Atsushi, 3,687,926.
- Kakinuma, Kazuaki: See—
- Nakashima, Takashi; and Kakinuma, Kazuaki, 3,652,788.
- Kakiuchi, Tokusaburo; and Akiyama, Hideaki, to Kabushiki Kaisha Ricoh. Film pressure device for cartridge. 3,642,358, 2-15-72, Cl. 352-227.
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- Konisi, Kenzi; Iwatani, Katsumi; and Kakizono, Yukio, 3,657,526.
- Kakogawa, Genjiro: See—
- Iwasaki, Koichiro; Yamaguchi, Kazuo; Kakogawa, Genjiro; Ohtsuka, Yasuo; and Kasahara, Kanji, 3,642,748.
- Kaku, Eiichi: See—
- Uchiyama, Sei; Kaku, Eiichi; Kobayashi, Masahiro; Zoda, Takamichi; and Fujimoto, Shunsaku, 3,657,871.
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- Kakuta, Kazuhiko: See—
- Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,638,187.
- Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,671,936.
- Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,671,937.
- Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,671,941.
- Kakuta, Shoichiro: See—
- Yanagi, Akio; and Kakuta, Shoichiro, 3,648,580.
- Kakutani, Haruko: See—
- Igarashi, Yuriko; and Kakutani, Haruko, 3,660,736.
- Kal Kan Foods, Inc.: See—
- Palmer, Hugh C., 3,645,747.
- Kal-Equip Company: See—
- Parmater, Lee, 3,660,759.
- Kal-Pac Engineering Ltd.: See—
- Llwell, Leopold W., 3,648,671.
- Kalachev, Vasily Alexeevich: See—
- Kuznetsov, Lev Vasilievich; Slavinsky, Zunya Mikhalevich; Kalachev, Vasily Alexeevich; Krupin, Alexandr Leonidovich; Aristarkhov, Nikolai Alexandrovich; Popkov, Eduard Jurievich; Trutnev, Vladimir Alexandrovich; and Bulychov, Nikolai Petrovich, 3,704,496.
- Kalajan, Edward. Container closure. 3,687,352, 8-29-72, Cl. 229-7.00r.
- Kalamazoo Manufacturing Company: See—
- De Pierre, Robert J., 3,685,125.
- Kalantarov, Karl Davidovich: See—
- Pluzhnikov, Viktor Mikhailovich; Kalantarov, Karl Davidovich; Gugnin, Jury Yakovlevich; Semenov, Valentin Sergeevich; Zelenina, Valentina Vasilievna; and Filatov, Albert Ivanovich, 3,690,309.
- Kalart Company Inc., The: See—
- Castedello, William, 3,685,893.
- Schwartz, Morris; Castedello, William; and Kaprelian, Edward K., 3,638,875.
- Kalutucka, Stephen: See—
- Bergey, John M. K.; and Kalutucka, Stephen, 3,680,046.
- Kalb, Henry T.: See—
- Crosswy, Frank L.; and Kalb, Henry T., 3,695,761.
- Lennert, Andrew E.; Crosswy, Frank L.; and Kalb, Henry T., 3,671,112.
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- Kalb, Paul A.: See—
- Miller, George E.; and Kalb, Paul A., 3,692,006.
- Kalbach, Jack J.: See—
- Coleman, William H.; Quinn, Robert C.; Novak, Howard L.; Kalbach, Jack J.; and Jones, Seward L., 3,658,438.
- Kalberman, Louis Werner, to Bell Telephone Laboratories, Incorporated. Piece part handling apparatus. 3,641,648, 2-15-72, Cl. 29-203.
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- Kaldenberg, Henry J., to Maytag Company, The. Liquid discharge device. 3,692,053, 9-19-72, Cl. 137-562.000.
- Kaldor, Leslie M.: See—
- Di Crispino, Joseph S.; and Kaldor, Leslie M., 3,673,862.
- Kaldor, Robert M.; Borruso, Joseph V.; and Goldbaum, Elliott, to Signal-Stat Corporation, mesne. Vehicle lamp. 3,676,834, 7-11-72, Cl. 339-59.001.
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- Kalglo Electronics Co., Inc.: See—
- Kerchner, Charles F., Jr., 3,649,853.
- Kali-Chemie Aktiengesellschaft: See—
- Moser, Wilhelm; Ariendorf, B. Honningen; Wirks, Wilhelm; and Ackermann, Karl-Heinz, 3,680,798.
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- Kemeny, Giulio; Gaboardi, Mario; Santini, Aldo; Testori, Mario; Reinhardt, Paul-Dietrich; Simoleit, Hartmut; and Walter, Ludwig, 3,652,217.
- Kali-Chemie Aktiengesellschaft: See—
- Kuhn, Konrad; and Boedecker, Manfred, 3,687,297.
- Milkowski, Wolfgang; Stuhmer, Werner; and Von Eickstedt, Klaus-Wolf, 3,641,125.
- Rudolph, Werner; and Massonne, Joachim, 3,680,289.
- Kaliko, Olga Romanovna: See—
- Menyailo, Anatoly Tikhonovich; Pospelov, Mikhail Valerievich; Kaliko, Olga Romanovna; Pokrovskaya, Inna Evgenievna; Fedorova, Valentine Vsevolodovna; Shilnikova, Albina Georgievna; Yakovleva, Antonina Karpovna; and Narozhenko, Tamara Georgievna, 3,664,810.
- Kalii, Eugene J.: See—
- Pacheco, Francisco, 3,648,668.
- Kalinsky, Harry. Wrist band and buckle therefor. 3,696,469, 10-10-72, Cl. 24-7.00r.

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- Kalish, Arthur. Self-adjusting sewing machine gage. 3,703,873, 11-28-72, Cl. 112-153.000.
- Kalish, Robert L.: *See—*
Shaines, Alfred; Kalish, Robert L.; and Hamer, Edward A. G., 3,695,964.
- Kaliski, Sylwester. Method of continuous amplification of surface and transverse coupled elastic-spin waves. 3,659,122, 4-25-72, Cl. 310-8.1.
- Kaliski, Sylwester. Method of generation of spontaneous elastic-spin-oscillations in ferromagnetopiezosemiconductor circuits. 3,668,441, 6-6-72, Cl. 310-8.100.
- Kalium Chemicals Limited: *See—*
Edmonds, Byron P., 3,652,129.
Kelly, Clifford J., and Hukee, Bernard J., Jr., 3,703,241.
Kelly, Clifford J., 3,704,101.
Porter, Selby, 3,637,261.
Schad, Charles A., 3,701,007.
- Kalkaman, Dirk, to N.V. Maschinenfabrik Gebr. Kalkaman. Method for manufacturing articles from a hardening substance. 3,660,553, 5-2-72, Cl. 264-71.
- Kalkhof, Gustav: *See—*
Pfeuffer, Alfred; Kalkhof, Gustav; and Weber, Helmut, 3,704,012.
- Kalkowski, Kurt Ulrich. Protective device for upholstered furniture. 3,649,075, 3-14-72, Cl. 297-219.
- Kalkowski, Kurt Ulrich. Anti-dazzle spectacles for motorists. 3,664,733, 5-23-72, Cl. 351-45.000.
- Kalkreuth, Hasso: *See—*
Binder, Wolfgang; Kalkreuth, Hasso; Glaser, Josef; and Fahrenkrug, Gunter, 3,701,470.
- Kallauskas, Gasparas. Welding head apparatus. 3,688,069, 8-29-72, Cl. 219-60.00a.
- Kalle Aktiengesellschaft: *See—*
Andra, Klaus; Porrmann, Herbert; and Hutschenreuter, Elfriede, 3,639,146.
Arnth, Reinhold; Trittler, Hans; and Emig, Jurgen, 3,666,458.
Busch, Walter; Kramer, Heinz; Lind, Erwin; and Messner, Dieter, 3,697,303.
Busch, Walter; and Schwarzer, Franz, 3,703,570.
Fick, Herbert, 3,685,425.
Gerigk, Gunter; and Klendauer, Wolfgang, 3,693,588.
Gurtler, Edgar, 3,686,060.
Haas, Gunter, 3,705,844.
Hackmann, Ernst-August; and Lind, Erwin, 3,650,745.
Herrmann, Heinz, 3,697,274.
Kaempgen, Dieter; Schmidt, Willi J.; and Seifried, Walter, 3,653,948.
Kindl, Erwin; and Riegler, Ernst, 3,670,697.
Klenk, Ludwig; Strutzel, Hans; and Sobottka, Richard, 3,679,435.
Klenk, Ludwig; Kaempgen, Dieter; Kersting, Rolf; and Porrmann, Herbert, 3,687,772.
Lind, Erwin; and Wiedemann, Wolfgang, 3,653,886.
Lind, Heinrich; Mahl, Hans; and Beer, Ekkehard, 3,695,972.
Mahl, Hans; and Lind, Heinrich, 3,684,556.
Marx, Gerhard; and Heist, Hans, 3,654,896.
Merk, Fritz; Debus, Gerhard; and Muller, Herbert Ewald, 3,645,823.
Moraw, Roland, 3,659,935.
Moraw, Roland; and Arnth, Reinhold, 3,705,768.
Raether, Siegfried, 3,664,934.
Ried, Walter; and Schmidt, Arthur Heinrich, 3,645,967.
Scheler, Siegfried; and Munder, Johannes, 3,676,132.
Stegmeier, Gerhard; Lenhart, Helga; Gebler, Horst; and Diener, Horst, 3,639,134.
Stroszynski, Joachim, 3,660,190.
Stroszynski, Joachim, 3,679,418.
Sus, Oskar; Uhlig, Fritz; and Schafer, Heinz, 3,640,992.
Tomanek, Martha nee Kunitzer, 3,650,797.
Uhlig, Fritz, 3,634,078.
Uhlig, Fritz; and Braun, Jurgen, 3,669,659.
Uhlig, Fritz; and Braun, Jurgen, 3,676,134.
Witte, Horst, 3,665,796.
- Kalle Aktiengesellschaft, *mesne: See—*
Moschel, Albrecht; Luders, Walter; and Steppan, Hartmut, 3,699,086.
Steppan, Hartmut; Moschel, Albrecht; and Luders, Walter, 3,635,720.
- Kallel, Allen; and Gowing, Arthur F., to Wemac Company. Air valve with fan actuator. 3,690,244, 9-12-72, Cl. 98-40.00a.
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- Kallenbach, Rudolf Paul. Copper immersion coating on aluminum. 3,672,976, 6-27-72, Cl. 117-130.00r.
- Kallenberg, Karl J., to Electronic Systems Engineering Co., *mesne*. Strip feed mechanism. 3,635,386, 1-18-72, Cl. 226-135.
- Kallenborn, Vernon H.: *See—*
Shank, Raymond S.; Kallenborn, Vernon H.; and Kennedy, Alice W., 3,682,858.
- Kallenowski, Peter: *See—*
Keller, Wilhelm; Kallenowski, Peter; and Schmidt, Peter, 3,669,603.
- Kallert, Wilhelm: *See—*
Konig, Klaus; Muller, Erwin; Kallert, Wilhelm; and Muhlihausen, Cornelius, 3,640,967.
- Kallianides, Milton; and Klein, Gerhart P. Slot applicator means. 3,669,062, 6-13-72, Cl. 118-9.000.
- Kallianos, Andrew G.: *See—*
Norman, Vello; Williams, Thomas B.; Kallianos, Andrew G.; and Mold, James D., 3,703,901.
- Kallianos, Andrew G.; Mold, James D.; and Simpson, Melvyn I., to Liggett & Myers Incorporated, *mesne*. Salicylate carbonate compounds. 3,646,201, 2-29-72, Cl. 424-230.
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- Kallins, Charles: *See—*
United States of America, National Aeronautics and Space Administration, 3,664,185.
- Kallio, Frank H.: *See—*
Baker, Donald H.; and Kallio, Frank H., 3,678,593.
- Kallio, Frank H., to Sperry Rand Corporation. Sum or difference angle computation apparatus. 3,662,162, 5-9-72, Cl. 235-186.
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De Fano, Dominic J.; and Kallman, Robert I., 3,696,033.
- Kallmeyer, James D.: *See—*
Findelisen, Heinz H.; Kallmeyer, James D.; Sokol David G.; Stein, James H.; Thomas, Thomas R.; and Bowers, Jack R., 3,676,854.
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Muller, Karl-Hans; and Kallrath, Gottfried, 3,632,352.
Reinhardt, Helmut; Trebinger, Karl; and Kallrath, Gottfried, 3,707,449.
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Bergqvist, Mats Soren; Kallstrom, Olof Krister; Lagerberg, Per Goran Olof; and Okvist, Nils Axel Gunnar, 3,664,825.
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- Kalman, Peter G. Filtering process and apparatus. 3,645,399, 2-29-72, Cl. 210-77.
- Kalmar, Harold B.: *See—*
Kukla, Frank A.; Kalmar, Harold B.; and Petkunas, John A., 3,648,616.
- Kalmar, Nicholas: *See—*
Rubin, Allen G.; and Kalmar, Nicholas, 3,663,168.
- Kalmon, Dennis H., to White Farm Equipment Company. Draft and position control for tractor drawn implements. 3,653,446, 4-4-72, Cl. 172-4.
- Kalnay, George: *See—*
Botskor, Ivan; and Kalnay, George, 3,656,844.
- Kalner, Veniamin Davidovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Ryskind, Alexandr Moiseevich; Semenov, Viktor Nikolaevich; Stepin, Anatoly Loginovitch; and Shklyarov, Isaak Nakhimovich, to Moskovsky dvazhdy ordena Lenina i ordena Trudovogo Krasnogo Znameni Avtomobilny Zavod imeni I.A. Likhacheva. Apparatus for thermal treatment of metal parts by electric induction heating. 3,696,225, 10-3-72, Cl. 219-10.790.
- Kalner, Veniamin Davydovich: *See—*
Ostrovsky, Grigory Arkadievich; Orlovsky, Anatoly Georgievich; Nikonov, Vladimir Filippovich; Kalner, Veniamin Davydovich; Shklyarov, Isaak Nakhimovich; Stepin, Anatoly Loginovitch; Bysink, Alexandr Moiseevich; Shepelyakovskiy, Konstantin Zakharovich; and Smrnov, Stanislav Ivanovich, 3,655,466.

- Kalnin, Arvid Yanovich: *See—*
Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leenix, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreovich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.
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- Kalnin, Robert Karlovich: *See—*
Ioffe, Benjamin Alexandrovich; and Kalnin, Robert Karlovich, 3,636,486.
Ioffe, Benjamin Alexandrovich; Kalnin, Robert Karlovich; Dorofeev, Vyacheslav Semenovich; Trushelis, Ivan Avgustovich; Zheigur, Bruno Domenikovich; Rizhsky Raion, Salaspils; Ivanov, Anatoly Andreovich; and Preis, Vladimir Viktorovich, 3,661,298.
Ioffe, Benjamin Alexandrovich; Lapidus, Mikhail Khaimovich; Preis, Vladimir Viktorovich; Kalnin, Robert Karlovich; Sermons, Gunar Yanovich; Dorofeev, Vyacheslav Semenovich; Zheigur, Bruno Domenikovich; Shevchenko, Alexandr Alexandrovich; Denisov, Gennady Alexandrovich; Mikelson, Artur Eduardovich; and Makhlin, Aron Judovich, 3,662,302.
Zheigur, Bruno Domenikovich; Kalnin, Robert Karlovich; Ioffe, Benjamin Alexandrovich; Shevchenko, Alexandr Alexandrovich; Dorofeev, Vyacheslav Semenovich; Mikelson, Artur Eduardovich; and Kirko, Igor Mikhailovich, 3,645,377.
- Kalning, Frederick E.: *See—*
Redman, Howard E.; and Kalning, Frederick E., 3,664,280.
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Heiz, Max; and Kalocay, Rudolf, 3,701,101.
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Charles, Roger; Zviak, Charles; and Kalopissis, Gregoire, 3,686,701.
Charles, Roger; Zviak, Charles; and Kalopissis, Gregoire, 3,691,270.
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Kaloustian, Arpiar; and Small, D. Richard (said Small assor. to), 3,693,739.
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Harrah, Robert S.; and Kalsi, Manmohan Suigh, 3,698,351.
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Eibofner, Eugen; Fink, Willi; and Farian, Gerhard, 3,672,060.
Hoffmeister, Erich, 3,631,742.
Hoffmeister, Erich, 3,637,050.
Loge, Hans, 3,654,911.
Saupe, Martin; and Farian, Gerhard, 3,646,677.
Saupe, Martin, 3,665,606.
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- Dany, Franz-Josef; Komorniczky, Klaus; Roszinski, Hilmar; and Kalteyer, Gerhard, 3,663,174.
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- Kind, Dieter; Naglik, Manfred; Kaltoffen, Albert; and Zwecker, Karl, 3,694,709.
- Kaltwalzwerk Brockhaus GmbH: *See—*
- Jungbeck, Manfred, 3,641,853.
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- Horstmann, Walter; Kaltz, Dietmar; Wolfrum, Gerhard; and Siegel, Edgar, 3,646,004.
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- Efimov, Leonid Alexandrovich; Shtin, Lev Mikhailovich; Sinitzky, Vladimir Mikhailovich; Khirdzeiv, Sergei Grigorievich; Pylaikin, Petr Alexeevich; Satovskaya, Ljudmila Sergeevna; Grebnev, Nikolai Feodosovich; Rasseikin, Mikhail Grigorievich; Kalugin, Konsantin Yakovlevich; Somov, Boris Stepanovich; and Baranchikov, Vladimir Mikhailovich, 3,678,728.
- Kalvar Corporation: *See—*
- Notley, Norman T.; and Senentz, Irwin M., Jr., 3,653,902.
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- Cassano, James R.; Smith, Charles E.; and Kalvitis, Robert E., 3,640,614.
- Kalvoda, Jaroslav: *See—*
- Anner, Georg; and Kalvoda, Jaroslav, 3,642,826.
- Anner, Georg; Ehmann, Ludwig; and Kalvoda, Jaroslav, 3,652,554.
- Anner, Georg; and Kalvoda, Jaroslav, 3,660,435.
- Anner, Georg; and Kalvoda, Jaroslav, 3,679,716.
- Anner, Georg; and Kalvoda, Jaroslav, 3,684,674.
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- Doviak, Peter L.; and Kalwaites, Frank, 3,632,269.
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- Horstmann, Walter; Kalz, Dietmar; Wolfrum, Gerhard; and Siegel, Edgar, 3,634,388.
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- Totsuka, Yasushi; and Kamachi, Shin-ichi, 3,649,820.
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- Hata, Toju; Kamada, Hideo; Wakaki, Shigetoshi; Kudo, Shiro; Tomioka, Keitaro; Mirumo, Hirofuto; Kato, Eturo; and Shimizu, Motoaki, 3,660,578.
- Kamada, Sico: *See—*
- Hashiguchi, Yasuhisa; and Kamada, Sico, 3,641,105.
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- Weinmann, Karl, 3,698,582.
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- Kamal, Marwan R.: *See—*
- Kuder, Robert C.; and Kamal, Marwan R., 3,661,993.
- Kuder, Robert C.; and Kamal, Marwan R., 3,691,223.
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- Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Kamalov, Gennady Nikolaevich; Sarkisov, Rafael Tevosovich; Stepanian, Ernst Arakelovich; and Shakhmaliev, Rustam Makhmud Ogly, 3,656,381.
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- Flannely, William G., 3,685,314.
- Halm, Frank J., III, 3,693,778.
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- Kaman, Charles H., 3,656,395.
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- Polyakov, Georgy Filippovich; Vanin, Vladimir Lvovich; and Kamardin, Vladimir Alexandrovich, 3,655,209.
- Kamaria, Georgy Mikirtychevich: *See—*
- Adacv, Evgeny Ivanovich; Blinov, Alexander Vasilievich; Kamaria, Georgy Mikirtychevich; Alexandrovich, Novoslelov Viktor; and Yakimenko, Leonid Markovich, 3,685,121.
- Kamarian, Georgy Mikirtychevich: *See—*
- Adacv, Evgeny Ivanovich; Blinov, Alexander Vasilievich; and Kamarian, Georgy Mikirtychevich, 3,645,878.
- Kamas Kvarnmaskiner AB: *See—*
- Nordstrand, Leif Roland, 3,672,516.
- Kamata, Hiroshi: *See—*
- Fujimura, Tsutomu; Kamata, Hiroshi; Yamaguchi, Tomio; and Fukue, Hisanobu, 3,636,441.
- Kamata, Masamoto: *See—*
- Arimura, Tohru; Kamata, Masamoto; Okado, Masaru; and Ichimaru, Takarokuro, 3,641,325.
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- Nishikawa, Hideo; Kawaguchi, Akihiro; Washimi, Koichi; and Kambayashi, Masaaki, 3,631,920.
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- Brastow, Carl H., 3,653,356.
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- Kamborian, Jacob S.; Typrowicz, Wladyslaw; and Anderson, Gordon S. (said Typrowicz and said Anderson assors. to said), 3,668,728.
- Kamborian, Jacob S.; Harriman, Allen C.; and Vornberger, Karl F., 3,675,260.
- Typrowicz, Wladyslaw, 3,653,087.
- Vornberger, Karl F., 3,693,878.
- Vornberger, Walter, 3,691,575.
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- Itaya, Nobushige; Kamoshita, Katsuzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Nakai, Shinji; Kameda, Nobuyuki; Fujimoto, Keimei; and Okuno, Yositosi, 3,666,789.
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- Arita, Shigeru; Kamei, Ichizo; and Okumura, Tomisaburo, 3,658,610.
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- Kamei, Tatsya: *See—*
- Tsukuda, Kiyoshi; Kamei, Tatsya; and Ogawa, Takuzo, 3,688,164.
- Kameishi, Michihiro, to Kanegafuchi Chemical Industry Company Limited. Chlorinated vinyl chloride resin compositions. 3,639,526, 2-1-72, Cl. 260-891.
- Kamen, Ira: *See—*
- Jacob, Gerald W.; Mogul, Eugene; Boros, Paul Z.; Schiff, David; Reader, Malcolm; and Kamen, Ira, 3,646,256.
- Walker, Harold R.; and Kamen, Ira, 3,639,686.
- Kamen, Jack M.: *See—*
- Kamen, Jack M.; and Wilkinson, Carolyn J. (said Wilkinson assor. to said), 3,640,282.
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- Tinari, Louis E.; and Kamena, David H., 3,650,231.
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- Kamenir, Melvin: *See—*
- Bartok, Stephen; Kamenir, Melvin; and Begoss, Andrew J., 3,673,350.
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- Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chektilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexandr; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikhailovich; Shevisov, Anatoly Ivanovich; Grinspon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papay, Valery Georgievich; and Toshev, Alexandr Mikhaivich, 3,687,188.
- Kamentsky, Louis A.: *See—*
- Adams, Lawrence R.; and Kamentsky, Louis A., 3,684,377.
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- Takco, Keinosuke; Kosugi, Kazuo; and Kamise, Tadaoki, 3,669,762.
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- Yoshino, Masataka; Kamiya, Akimi; Ogawa, Nin; Oguri, Atsushi; and Muramatsu, Shigeo, 3,666,007.
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- Nomura, Osamu; and Kamiya, Fumio, 3,657,598.
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- Nakamachi, Hideo; Kamiya, Kazuhide; Nishikawa, Masao; and Fujii, Shoichiro, 3,687,932.
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- Kammann, Wilfried, 3,690,437.
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- Schwerdtfeger, Gunter; and Kammerling, Bruno, 3,693,952.
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- Marschall, Helmut; Kammermayer, Wolfgang; Beller, Hans Albert; Hahn, Heinz; and Belart, Juan, 3,669,226.
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- Martinez, Eugene, 3,687,524.
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- Ley, Kurt; Roos, Ernst; Kampermann, Theo; and Nast, Roland, 3,689,554.
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- Vandek, Ian Frederik; Wilson, Ronald Ian; Kampjes, Gerrie Richard; and Lavender, William James, 3,705,478.
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- Vinch, Angelo N.; and Kamulski, David A., 3,691,399.
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- Richter, John C. F. C., 3,643,878.
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- Kanai, Kenji: *See—*
Sugaya, Hiroshi; and Kanai, Kenji, 3,696,216.
- Kanai, Tomiyoshi: *See—*
Kamiya, Osamu; Asano, Yuichiro; and Kanai, Tomiyoshi, 3,650,005.
- Kanai, Toshio: *See—*
Washimi, Koichi; Kanbayashi, Masaaki; Kanai, Toshio; and Fujimori, Akihiro, 3,674,679.
- Kanamaru, Kenichi: *See—*
Hatagi, Hiroyuki; Kanamaru, Kenichi; and Funasaki, Yasuo, 3,678,226.
- Kanamaru, Toshihiko: *See—*
Funakoshi, Yoshiro; Kajiura, Takehiko; Fujii, Kiyoshi; Kanamaru, Toshihiko; Nishitani, Masaki; and Komeda, Hiromu, 3,671,296.
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Yamatodani, Saburo; and Kanamaru, Tsuneco, 3,674,642.
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Koguma, Kazumasa; Takeuchi, Hiroshi; and Kanamaru, Yuichi, 3,639,697.
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Collin, Heinrich, 3,705,778.
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Raynes, Burt F.; Kanatsiz, Necati; and Ottle, Robert E., 3,666,118.
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Andrejev, Pavel Alexeevich; Blinov, Konstantin Andreevich; Gremilov, Dmitry Ivanovich; Kanaun, Boris Izrailevich; Kanaev, Andrei Andreevich; Aslanian, Gurken Nazarovich; Paramonov, Pavel Mikhailovich; Panshin, Boris Mikhailovich; Sobolev, Sergei Petrovich; and Shubenko-Shubin, Leonid Alexandrovich, 3,693,599.
- Kanavets, Ivan Fedorovich: *See—*
Sokolov, Anatoly Danilovich; Danilkin, Nikolai Nikiforovich; and Kanavets, Ivan Fedorovich, 3,686,933.
- Kanayama, Toshihiko: *See—*
Tanaka, Kazuo; Kanayama, Toshihiko; Yasuda, Tetuya; Tutiya, Hidetaka; Kikuchi, Yoshio; and Muto, Takeo, 3,659,413.
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Osawa, Shigeru; and Kanazawa, Michio, 3,653,719.
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Imai, Tomio; Irie, Yoshio; and Kanazawa, Yoshinobu, 3,661,594.
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Washimi, Koichi; Kanbayashi, Masaaki; Kanai, Toshio; and Fujimori, Akihiro, 3,674,679.
- Kanbe, Masaru: *See—*
Oshibuchi, Koji; Kogure, Motoo; Kanbe, Masaru; and Harajima, Nobuo, 3,704,162.
- Kanda, Kaoru: *See—*
Kimura, Takashi; Kumagai, Kazuo; and Kanda, Kaoru, 3,665,432.
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Kurose, Tadashi; Kagaya, Ryuichi; Ono, Kunio; and Kanda, Kimio, 3,689,828.
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Hiyosi, Hiroshi; and Kanda, Masao, 3,700,490.
- Kanda, Tatsuo: *See—*
Kaminaka, Hiroshi; Kotera, Norio; Kanda, Tatsuo; Kuruma, Hiroshi; Yanagihara, Hideki; and Murata, Yoshiro, 3,691,278.
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Westphal, Bernd; and Kandler, Georg, 3,695,777.
- Kandler, Joachim: *See—*
Ahlgrim, Michael; Kandler, Joachim; Lenz, Hans-Joachim; Mietens, Gerhard; and Ott, Willy, 3,647,514.
- Dorn, Friedrich Wilhelm; Frank, Klaus; Gleisberg, Dietrich; Kandler, Joachim; and Thiel, Hans Dieter, 3,649,370.
- Grimm, Dieter; Kandler, Joachim; Merkenich, Karl; and Pirig, Wolf-Dieter, 3,676,352.
- Schneider-Arnoldi, Alfred; Kampmann, Friedrich-Wilhelm; Thiel, Hans-Dieter; Kandler, Joachim; and Gleisberg, Dietrich, 3,676,165.
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Campbell, Eugene H.; and Kane, James F., 3,654,623.
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Landingham, Richard L.; and Kane, James S., 3,637,422.
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Elliott, Ernest A.; Kane, John W.; and Pasen, Randolph A., 3,671,002.
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Worley, Arthur C.; and Kane, Ronald S., 3,701,359.

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- Kane, Thomas R.: *See—*
United States of America, National Aeronautics and Space Administration, 3,637,170.
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Suzuki, Shigeyuki; Kaneda, Isamu; Takahashi, Masaaki; and Nagai, Hiroshi, 3,640,969.
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Sumi, Seiji; and Kaneda, Isao, 3,636,374.
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Nakazato, Hiroshi; Yokoyama, Masayoshi; Nagano, Toshihiro; and Kaneda, Kazuyoshi, 3,634,214.
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Siclar, Francesco; Horak, Edgardo; and Rosso, Mario, 3,682,864.
- Kanegafuchi Boseki Kabushiki Kaisha: *See—*
Matsui, Masao; Tokura, Susumu; and Yamabe, Masahiro, 3,639,556.
- Kanegafuchi, B. K.: *See—*
Matsui, Masao, 3,700,544.
- Kanegafuchi Boseki Kabushiki Kaisha: *See—*
Ando, Satoshi; Tanaka, Yusaku; Onuma, Sadao; and Ogata, Fumimaro, 3,642,568.
- Ando, Satoshi; Tanaka, Yusaku; Kojima, Minoru; and Fujimura, Kyoichi, 3,669,917.
- Fujita, Isamu; and Otoi, Kiyoshi, 3,652,549.
- Fujita, Isamu; and Yoneya, Tooru, 3,689,477.
- Hosokawa, Kenjiro; Matsui, Masao; Endo, Norio; Ichikawa, Michio; and Tokura, Susumu, 3,668,001.
- Hosokawa, Kenjiro; and Ichikawa, Michio, 3,705,823.
- Ishizawa, Kazutomo; Nagata, Yasunori; Abe, Junnosuke; and Fukuoka, Akira, 3,646,992.
- Ishizawa, Kazutomo; Kubota, Tetsujiro; Miki, Jiro; Matsunaga, Hirotsugu; and Ohtake, Sadao, 3,653,808.
- Kimura, Isao; Ogata, Fumimaro; and Ohtomo, Koichiro, 3,637,900.
- Kimura, Isao; and Habata, Hidetsugu, 3,639,953.
- Kimura, Isao; Ogata, Fumimaro; and Ohtomo, Koichiro, 3,702,350.
- Kimura, Yasuo, 3,692,623.
- Kitazawa, Tohru; Maeda, Hiroshi; Yoshidome, Hideo; and Sakata, Hidehiko, 3,657,178.
- Maruya, Mitsuru; Oono, Yoshio; Fukuda, Bunji; and Takahashi, Kenji, 3,644,231.
- Matsui, Masao; and Tokura, Susumu, 3,660,993.
- Matsui, Masao; Tokura, Susumu; and Yamabe, Masahiro, 3,681,189.
- Matsui, Masao; and Yamabe, Masahiro, 3,684,647.
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- Matsui, Masao; Utsuhara, Yutaka; Yamabe, Masahiro; and Tokura, Susumu, 3,672,802.
- Nishimura, Hiroshi; and Sato, Shizuo, 3,663,470.
- Ogata, Fumimaro; Naruse, Tsutomu; and Itoh, Torazo, 3,642,565.
- Ohki, Makoto; Irie, Hisashi; and Okamoto, Kazuo, 3,639,204.
- Ohno, Yoshio; Eda, Korekiyo; Tamamura, Toshio; and Yamasaki, Kosaburo, 3,687,784.
- Oohara, Saburo; Amemiya, Koitsuro; Nishijima, Yasushi; Fukushima, Mitsuyoshi; and Shimizu, Kunio, 3,677,871.
- Sawa, Yoshi; Itoh, Takashi; Kojima, Minoru; and Sotomura, Mikio, 3,639,154.
- Sugimoto, Yoshitaka; Sannomiya, Isao; and Noumi, Kazunobu, 3,677,694.
- Takahashi, Kenji; Yamamura, Toshio; Ono, Mitsuzo; and Eda, Korekiyo, 3,673,125.
- Tamura, Yoshio; and Ando, Satoshi, 3,639,203.
- Uraya, Toru; and Kageyama, Shusuke, 3,659,989.
- Kanegafuchi Chemical Industry Company Limited: *See—*
Kameishi, Michihiro, 3,639,526.
- Saito, Kazuo; Tanaka, Takeshi; and Saito, Ichiro, 3,670,052.
- Kanegafuchi Kagaku Kogyo Kabushiki: *See—*
Ito, Ryo; and Kojima, Takeshi, 3,652,690.
- Kanegafuchi Kagaku Kogyo Kabushiki Kaisha: *See—*
Yonezu, Shuzo; Tanaka, Takeshi; Tsuzuki, Minoru; and Kobayashi, Takashi, 3,652,727.
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Isogawa, Masataka; Minato, Shoichi; and Ando, Zenjiro, 3,678,132.
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Inoue, Kiyoshi; and Kaneko, Hideo, 3,689,254.
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Shimaya, Kazunori; Kaneko, Katsuzo; Fujio, Yoshinori; and Sato, Yoshihiro, 3,701,893.
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Tanaka, Hiroshisa; Wada, Mitiaki; and Kaneko, Keiji, 3,706,179.
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Dosen, Masasi; Kaneko, Kunio; and Watanabe, Naozo, 3,689,330.
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Sueda, Hideo; Yamawaki, Takeshi; Kida, Keiichi; Hayashi, Masahiro; Endo, Kazuo; and Kaneko, Mamoru, 3,639,553.
- Kaneko, Masaharu: *See—*
Okada, Hitoshi; Kaneko, Masaharu; Kato, Yoshiaki; and Honda, Hiroshi, 3,646,069.
- Kaneko, Masanao: *See—*
Kishida, Yukichi; Soma, Nobuo; Nakazawa, Junichi; Sato, Yoshio; Matsuda, Hidebumi; Terada, Atsutosuke; Watanabe, Taiichiro; Sugimura, Yukio; Miyamura, Toshihide; Kaneko, Masanao; and Watatani, Mitsuo, 3,704,294.
- Kaneko, Mikio: *See—*
Sugimoto, Hiroshi; and Kaneko, Mikio, 3,631,952.
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Yoshimoto, Toshio; Kaneko, Seiya; Sasaki, Takashi; Narumiya, Tsuneaki; Yoshii, Hiroshi; and Takamatsu, Tetsuya, 3,652,517.
- Kaneko, Shin-ichi: *See—*
Yamamoto, Hisao; and Kaneko, Shin-ichi, 3,703,513.
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Nakai, Tunes; Ando, Akira; Minehisa, Setuzi; Kaneko, Shunsuke; Siraki, Yosinori; Inui, Tatuo; Nakazima, Hiroyuki; and Tominaga, Naotugu, 3,660,629.
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Naomoto, Susumu; Kaneko, Tadataka; and Esaki, Hideya, 3,675,091.
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Tatematsu, Kenzo; and Kaneko, Teruhisa, 3,646,423.
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Sato, Shui; Sakamoto, Eiichi; Saito, Shizuo; Sakazume, Kaichiro; and Kaneko, Tokuzo, 3,663,210.
- Kaneko, Toyo: *See—*
Suzuki, Toshio; and Kaneko, Toyo, 3,640,568.
- Kaneko, Yoichi: *See—*
Kimura, Katuhiro; and Kaneko, Yoichi, 3,639,856.

- Sekine, Kenji; and Kaneko, Yoichi, 3,665,341.
 Kaneko, Yoshikazu: *See—*
 Maruyama, Shoji; and Kaneko, Yoshikazu, 3,658,881.
 Kaneko, Yoshio: *See—*
 Kaneko, Ryutano; and Kaneko, Yoshio, 3,653,336.
 Kanematsu, Yoshiko: *See—*
 Hayakawa, Shohet; Kanematsu, Yoshiko; and Fujiwara, Takashi, 3,674,842.
 Kanemitsu, Akio: *See—*
 Hoshino, Kazuo; and Kanemitsu, Akio, 3,669,689.
 Kanemoto, Kazuo: *See—*
 Oshima, Ryoichiro; Miyamoto, Seigo; Kanemoto, Kazuo; and Ichikawa, Michio, 3,683,637.
 Kanen, Robert M.: *See—*
 Wurst, John W.; and Kanen, Robert M., 3,702,432.
 Kanyasu, Hiroshi: *See—*
 Muroga, Ko; Okuda, Jiro; Shimasaki, Nobuhiko; Terashima, Toshio; Maruyama, Yasushi; Kanyasu, Hiroshi; Sohma, Kikuya; and Lovell, Clarence A., 3,649,767.
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 Kangas, Juhani: *See—*
 Bryk, Petri; Haani, Martti; Honkasalo, Jorma B.; Kinnunen, Jorma; Lindso, Olli; Nyholm, Erik; Pojarvi, Jaakko; Rastas, Jussi; and Kangas, Juhani, 3,677,696.
 Kangas, Larry G.; and Kline, Robert J., to Minnesota Mining and Manufacturing Company. Magnetic powder applicator. 3,643,629, 2-22-72, Cl. 118-637.
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 Kango Electric Hammers Limited: *See—*
 Roje, Albert Norman, 3,697,792.
 Kani, Masaru: *See—*
 Koga, Michio; and Kani, Masaru, 3,644,321.
 Kanicki, Walter J. Elastic type exercising device. 3,659,846, 5-2-72, Cl. 272-80.
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 Kanitkar, Dileep R.: *See—*
 Darin, John K.; and Kanitkar, Dileep R., 3,683,016.
 Kanitz, Roy Edwin, to Sperry Rand Corporation. Safety apparatus for mechanical filing cabinets. 3,640,596, 2-8-72, Cl. 312-223.
 Kanji, Maro: *See—*
 Minoru, Shindo; Kanji, Maro; and Teizo, Shinozaki, 3,692,776.
 Kanna, Leslie J., to Mass Feeding Corporation. Washer and crushing apparatus for disposable trays. 3,645,199, 2-29-72, Cl. 100-70.
 Kannam, Peter J.: *See—*
 Erick, Frederick G.; Kisinko, Paul M.; Marino, Joseph; and Kannam, Peter J., 3,639,815.
 Kannamuller, Gerhard; Koszicz, Karl-Heinz; Goller, Werner; Kugler, Walter; and Muller, Yorck, to Dornier A.G. Rotor head for a helicopter. 3,637,322, 1-25-72, Cl. 416-138.
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 Kannegiesser Maschinenfabrik Gesellschaft mit beschränkter Haftung: *See—*
 Kannegiesser, Herbert, 3,707,345.
 Kannenberg, Karl G.: *See—*
 Bader, Erich; Kannenberg, Karl G.; and Ricke, Hans-Benno, 3,701,676.
 Kanner, Bernard: *See—*
 Pepe, Enrico J.; and Kanner, Bernard, 3,661,963.
 Kanner, Bernard; and Prokai, Bela, to Union Carbide Corporation. Cationic silicone surfactants for flexible polyester urethane foams. 3,642,670, 2-15-72, Cl. 260-2.5.
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 Kanno, Hideo: *See—*
 Schuller, Walter H.; Kanno, Hideo; and Lawrence, Ray V., 3,661,933.
 Kanno, Satoshi, to Victor Company of Japan, Limited. Rotation control circuit for transistor motor. 3,671,837, 6-20-72, Cl. 318-394.000.
 Kanno, Tadaaki: *See—*
 Suzuki, Shigeru; Sugita, Keiji; Koizumi, Yutaka; and Kanno, Tadaaki, 3,651,727.
 Kano, Gota; Yokozawa, Masami; Kawasaki, Tatsuo; Fujiwara, Shohet; and Hasegawa, Hiromasa, to Matsushita Electronics Corporation. Method for manufacturing pressure sensitive semiconductor device. 3,634,931, 1-18-72, Cl. 29-589.
 Kano, Hideo: *See—*
 Sumimoto, Shinzaburo; Makisumi, Yasuo; and Kano, Hideo, 3,660,383.
 Kano, Tetsuhiro: *See—*
 Nameda, Naoyoshi; and Kano, Tetsuhiro, 3,652,892.
 Kano, Tsuyoshi; Otomo, Yoshiro; and Yamamoto, Hajime, to Hitachi Ltd. Phosphors. 3,655,577, 4-11-72, Cl. 252-301.4.
 Kano, Yasuhiro: *See—*
 Sato, Ryuchi; Harimaya, Seizi; Agata, Akihiko; Morishima, Kunio; Tsutsui, Toshiaki; and Kano, Yasuhiro, 3,637,329.
 Kanoh, Tadao: *See—*
 Kamegaya, Takeo; Imahori, Yutaka; Ohta, Akira; Kanoh, Tadao; and Ohara, Akio, 3,670,195.
 Kanoh, Teruchika: *See—*
 Matsugu, Tomoyuki; Notomi, Ryota; and Kanoh, Teruchika, 3,678,546.
 Kanoh, Teruchika; and Notomi, Ryota, to Kohjin Company, Limited. Method and apparatus for making tubular film. 3,655,846, 4-11-72, Cl. 264-89.
 Kanokogi, Tatsuro, to Sumitomo Metal Industries, Ltd. Apparatus for the production of iron. 3,648,997, 3-14-72, Cl. 266-27.
 Kanokogi, Tatsuro; and Yasumoto, Kunio, to Sumitomo Metal Industries, Ltd. Steel ingot making method. 3,667,534, 6-6-72, Cl. 164-83.000.
 Kanou, Kimio: *See—*
 Wada, Ryuzi; Nakamura, Keiichi; and Kanou, Kimio, 3,698,138.
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 Kansai Hoan Kogyo Kabushiki Kaisha: *See—*
 Fujiwara, Katsuji, 3,657,516.
 Kansai Paint Company, Limited: *See—*
 Goto, Masahiro; Noto, Tetsuo; Kato, Nitsuya; Kimura, Morio; and Watanabe, Tadashi, 3,684,752.
 Juna, Kiyoshi; and Tsuchiya, Masuo, 3,684,746.
 Kasano, Kimiaki; and Kaya, Ichiro, 3,657,000.
 Kasano, Kimiaki; and Kaya, Ichiro, 3,705,569.
 Kimura, Morio; Watanabe, Tadashi; Murata, Koichiro; and Iwasawa, Naozumi, 3,634,351.
 Kozu, Haruo; Kimura, Morio; Watanabe, Tadashi; Naozumi, Hiratsuka; and Yoshida, Michio, 3,655,596.
 Okamura, Seizo; Odan, Koji; and Maruyama, Tsutomu, 3,664,861.
 Shibata, Minoru; Yusa, Makoto; Nakata, Hisao; and Harada, Michisuke, 3,705,866.
 Kansas State University Research Foundation: *See—*
 Bartley, Erle E.; and Deyoe, Charles W., 3,642,489.
 Meloan, Clifton E.; and Bunting, Thomas G., 3,661,797.
 Meyer, Ronel M.; and Bartley, Erle E., 3,686,416.
 Van Swaay, Maarten, 3,683,671.
 Kansas University Endowment Association: *See—*
 Smismman, Edward Ervin; and Weis, James Allen, 3,646,208.
 Kansky, Evgen: *See—*
 Tavzes, Radovan; Koron, Jelko; and Kansky, Evgen, 3,657,690.
 Kanstul, Zigmant J.; and Quinn, Gregory F., to Chicago Musical Instrument Co. Musical instrument valve construction. 3,641,863, 2-15-72, Cl. 84-390.
 Kant, Alvin W., to American Tractor Equipment. Offsetting cable plow. 3,657,831, 4-25-72, Cl. 37-193.
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 Kanter, Jerome J., to Crane Co. Process for enameling ferrous articles. 3,704,153, 11-28-72, Cl. 117-23.000.
 Kanting Oilfield Services Ltd.: *See—*
 Davies, Walter J.; Hatton, Barry; Boyd, George C.; and Hanlan, Harvey E. W., 3,704,676.
 Kanto Seiki Co., Limited: *See—*
 Shimizu, Yasushi, 3,702,550.
 Kanto Seiki Company, Limited: *See—*
 Yamamoto, Yukio, 3,654,600.
 Kanto Seiki Kabushiki Kaisha: *See—*
 Chigira, Junji, 3,680,325.
 Kantola, Mikko. Timber handling machine. 3,682,211, 8-8-72, Cl. 144-3.000.
 Kantola, Robert A.; and West, Norman H., to General Electric Company. Fluidic sound reproduction system. 3,666,273, 5-30-72, Cl. 274-6.000.
 Kantola, Robert A.; and Boothe, Willis A., to General Electric Company. Open-loop fluidic analog accelerometer. 3,675,473, 7-11-72, Cl. 73-70.100.
 Kantor, Bertram Lincoln: *See—*

- Kantor, Seymour Milton; and Kantor, Bertram Lincoln, 3,662,980.
 Kantor, Frederick W. Matrix-form proportional-mode radiation detector. 3,654,469, 4-4-72, Cl. 250-83.6.
 Kantor, Iliia Solomonovich: *See—*
 Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Kantor, Iliia Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhanelidze, Vazna Venediktovich; Topolyanky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, 3,689,010.
 Kantor, Itzhak, to Plasson Maagan Michael Industries Ltd. Door latch. 3,632,007, 1-4-72, Cl. 217-57.
 Kantor, Itzhak, to Plasson Maagan Michael Industries, Ltd. Multi-supported movable trough-controlled waterer. 3,685,495, 8-22-72, Cl. 119-81.
 Kantor, Seymour Milton; and Kantor, Bertram Lincoln. Display base. 3,662,980, 5-16-72, Cl. 248-161.
 Kantor, Simon W.: *See—*
 Agens, Maynard C.; and Kantor, Simon W., 3,676,285.
 Kantor, Thomas A.; and Bowen, Ronald K., to Cyclops Corporation. Wrought welding alloys. 3,650,734, 3-21-72, Cl. 75-171.
 Kantorowicz, Gerard: *See—*
 Epsztein, Bernard; Kantorowicz, Gerard; and Ribout, Pierre, 3,689,852.
 Kantorowicz, Gerard, to Thomson-CSF. Wide-band high-power delay line. 3,666,984, 5-30-72, Cl. 315-3.500.
 Kantorowicz, Gerard, to Thomson-CSF. Delay lines. 3,699,379, 10-17-72, Cl. 315-3.500.
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 Kanzaki, Hisao: *See—*
 Amano, Katsutaro; Ota, Chuichi; Hashimoto, Masao; Kanzaki, Hisao; Sakamoto, Yasuhiko; and Yasoshima, Nobuyuki, 3,644,680.
 Sasaki, Hiroshi; Maruyama, Tatsuo; Kanzaki, Hisao; and Sakamoto, Yasuhiko, 3,641,274.
 Sasaki, Hiroshi; Maruyama, Tatsuo; Kanzaki, Hisao; Sakamoto, Yasuhiko; and Yasoshima, Nobuyuki, 3,643,031.
 Kanzaki, Nagamasa: *See—*
 Maeda, Yutaka; Kimura, Hiroshi; Koshimo, Akio; Kanzaki, Nagamasa; Yasuzuka, Katsumi; and Furukawa, Yoshinobu, 3,643,412.
 Kanzaki, Toshihiko: *See—*
 Nakazawa, Koiti; Shibata, Motoo; Higashide, Eiji; Kanzaki, Toshihiko; Yamamoto, Hiroichi; Miyake, Akira; Ueyanagi, Jisaburo; and Iwasaki, Hidesuke, 3,655,879.
 Kanzaki, Yasushi: *See—*
 Samejima, Hiroto; Nagano, Yuji; Ota, Shigenori; Kanzaki, Yasushi; Matsuo, Hideki; and Kuroda, Keizo, 3,658,557.
 Kanzelberger, James C. Container. 3,684,084, 8-15-72, Cl. 206-45.310.
 Kao, Che-I.: *See—*
 Kallos, George J.; and Kao, Che-I., 3,636,182.
 Kao, Chih-Yu; Kurth, Carl Ferdinand; and Maclean, Roderick Campbell, to Bell Telephone Laboratories, Incorporated. Automatic equalizer utilizing a predetermined reference signal. 3,633,129, 1-4-72, Cl. 333-18.
 Kao, Chih-Yu; and Kurth, Carl F., to Bell Telephone Laboratories, Incorporated. Equalizer. 3,663,898, 5-16-72, Cl. 333-18.
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 Kao, Henry C., to Inmont Corporation. Acrylic lacquer coating composition containing a controlled quantity of low molecular weight melamine-formaldehyde resin. 3,634,347, 1-11-72, Cl. 260-15.
 Kao, Jao Shiun: *See—*
 Dube, Victor J.; Thoma, Paul E.; and Kao, Jao Shiun, 3,665,765.
 Kao, Peter T.: *See—*
 Cumbo, Peter E.; Hart, James L.; Kao, Peter T.; and Negus, George T., 3,687,751.
 Kao Soap Co., Ltd.: *See—*
 Arai, Haruhiko; and Horin, Shoji, 3,684,749.
 Arai, Sumio; Inouye, Masaru; Ogata, Yuzuru; Niimi, Yukihiisa; and Nishimoto, Utiro, 3,666,661.
 Hattori, Kenichi; Ueda, Yuichi; and Tanino, Yukio, 3,634,315.
 Hattori, Kenichi; Goukon, Atushi; Komeda, Yoshiaki; and Mori, Hiroshi, 3,637,580.
 Hattori, Kenichi; Yamakawa, Tyoji; and Tuji, Akitoshi, 3,686,133.
 Hayashi, Noburo; Katsumi, Mamoru; Ogata, Yuzuru; Arai, Sumio; Kurita, Yoshiaki; and Inamori, Yoshihiro, 3,639,468.
 Kawada Tsukasa; Suzuki, Susumu; and Matsui, Nobuya, 3,686,240.
 Majima, Kanji; Takei, Kensuke; and Oku, Masayuki, 3,660,472.
 Majima, Kanji; and Morita, Goro, 3,677,934.
 Majima, Kanji; Izumi, Kaichi; and Watanabe, Takao, 3,681,975.
 Maruta, Iwao; Arai, Haruhiko; and Murata, Moriyasu, 3,660,070.
 Maruta, Iwao; Arai, Haruhiko; and Horin, Shoji, 3,668,170.
 Nakajima, Meiken; and Nakagawa, Yunosuke, 3,677,954.
 Ogata, Yuzuru; Arai, Sumio; and Iwasa, Ichiro, 3,682,803.
 Kao Soap Company, Ltd.: *See—*
 Arai, Haruhiko; and Nagasawa, Tunes, 3,692,894.
 Kapafar Business Trust Reg.: *See—*
 Wahlen, Werner; and Blumber, Hans, 3,673,920.
 Kapany, Narinder S., to Optics Technology, Inc. Apparatus for acquiring and displaying real time 3-D information. 3,682,553, 8-8-72, Cl. 356-4.000.
 Kapeker, Martin. Coupler for tubular members. 3,667,785, 6-6-72, Cl. 285-231.
 Kapell, Gerhard; and Schummer, Anton. Method of detaching galvanically-produced sheets from master sheets. 3,693,236, 9-26-72, Cl. 29-423.000.
 Kapelowitz, Robert F. Syringe with multiple compartments. 3,680,558, 8-1-72, Cl. 128-218.00m.
 Kaplish, Maurice S.: *See—*
 Cath, Pieter G.; and Kaplish, Maurice S., 3,654,560.
 Kapitan, Christine S.: *See—*
 Kapitan, John R.; and Kapitan, Christine S., 3,707,004.
 Kapitan, John R.; and Kapitan, Christine S. Ballistic resistant protective guard. 3,707,004, 12-26-72, Cl. 2-2.500.
 Kapitanov, Nikolai Ivanovich: *See—*
 Budman, Moisei Izrailevich; Kaganovsky, Frederik Isaakovich; Kapitanov, Nikolai Ivanovich; Karzov, Jury Nikolaevich; Nadochenko, Andrei Fedorovich; Slavetsky-Kotvitsky, Eduard Sebestyanovich; and Shorokhov, Leonid Pavlovich, 3,668,921.
 Kaplan, Ephraim H.: *See—*
 Richter, Sidney B.; and Kaplan, Ephraim H., 3,632,693.
 Richter, Sidney B.; and Kaplan, Ephraim H., 3,641,220.
 Kaplan, Eric S. Automatic fish feeding apparatus. 3,688,744, 9-5-72, Cl. 119-51.110.
 Kaplan, Herman L., to Cole National Corporation. Blade lock for scissors. 3,651,573, 3-28-72, Cl. 30-226.
 Kaplan, Irving Leonard, to Krasny, Carl, & Associates, Inc. Bar unscrambler. 3,670,902, 6-20-72, Cl. 214-1.
 Kaplan, Isaac R.: *See—*
 Ben-Yakov, Shmuel; and Kaplan, Isaac R., 3,652,439.
 Kaplan, Jack H.: *See—*
 Hensley, John V., 3,635,381.
 Kaplan, Joel R.; and Huste, Arno. Method for producing enhanced soluble coffee. 3,687,683, 8-29-72, Cl. 99-71.000.
 Kaplan, Jury Abramovich: *See—*
 Poludetkin, Vladimir Romanovich; Menitsky, Isosif Donatovich; and Kaplan, Jury Abramovich, 3,638,513.
 Kaplan, Leon M.; and Kriofsky, Thomas A., to Transitag Corporation. Inductively coupled passive responder and interrogator unit having multidimension electromagnetic field capabilities. 3,689,885, 9-5-72, Cl. 340-152.00t.
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 Kaplan, Melvin: *See—*
 Shultz, Andrew; and Kaplan, Melvin, 3,634,361.
 Kaplan, Murray Arthur: *See—*
 Kaser, Walter Edwin; Kaplan, Murray Arthur; and Granatek, Alphonse Peter, 3,634,586.
 Kaplan, Richard B.: *See—*
 Glaski, Frederick A.; Holz, Robert A.; and Kaplan, Richard B., 3,640,689.
 Kaplan, Robert A.: *See—*
 Daly, Richard T.; and Kaplan, Robert A., 3,636,251.
 Kaplan, Robert P., to Sperry Rand Corporation. Printing punching and encoding apparatus for file folders and the like. 3,667,382, 6-6-72, Cl. 101-19.
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Pokhodnya, Igor Konstantinovich; Alter, Vladimir Fedorovich; Kaplenko, Igor Prokofievich; Suprun, Sergei Alexandrovich; Suptel, Alexandr Mikhailovich; Shlepakov, Mikhailovich; and Shlepakov, Valery Nikolaevich, 3,688,376.
- Kaplow, Milton: See—
Cseri, Joseph; Halik, Joseph John; and Kaplow, Milton, 3,655,400.
- Glasser, George; Hollis, Frank; and Kaplow, Milton, 3,655,404.
- Glasser, George; Sjonvall, Ragnar Edward; and Kaplow, Milton, 3,676,154.
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- Kaplowitz, Harry: See—
Bharwani, Bansi U.; and Kaplowitz, Harry, 3,670,310.
- Kaprunov, Vadim Borisovich: See—
Kononov, Boris Leonidovich; Kildishev, Vasily Semenovich; Kaprunov, Vadim Borisovich; Tokarev, Vladimir Ivanovich; Spivak, Boris Volkovich; Byaly, Boris Ilich; Chigirinsky, Alexandr Abramovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kariashvsky, Pavel Yakovlevich; and Cheremisov, Ivan Yakovlevich, 3,683,220.
- Kapnek, Bertram H. Lighting assembly. 3,642,238, 2-15-72, Cl. 248-205.
- Kapnoff, Anita L. Box-sox for protecting contents of opened boxes. 3,692,230, 9-19-72, Cl. 229-43.000.
- Kapoor, Pramesh N.: See—
King, Robert Bruce; and Kapoor, Pramesh N., 3,657,298.
- Kapoor, Ramesh: See—
Hyman, Seymour; Bernstein, Bruce S.; and Kapoor, Ramesh, 3,705,938.
- Kapp, Alfred: See—
Jahn, Paul; and Kapp, Alfred, 3,667,326.
- Kapp, Ludwig J., to Flo Devices Inc. Serial printing machine. 3,695,410, 10-3-72, Cl. 197-55.000.
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Widmann, Dietrich; Kappelmeyer, Rudolf; Schluter, Kurt; and Steggewentz, Hermann, 3,644,134.
- Kappenhagen, George A., to Westinghouse Electric Corporation. Solid-state photocontrol apparatus for lighting loads. 3,654,514, 4-4-72, Cl. 315-156.
- Kapperman, Dorothy M.: See—
Kipple, Harry P.; Cozzarin, Virgil J.; and Kapperman, Francis C., 3,683,154.
- Kapperman, Francis C.: See—
Kipple, Harry P.; Cozzarin, Virgil J.; and Kapperman, Francis C., 3,683,154.
- Kapperman, Francis C.: See—
Cozzarin, Virgil J.; Kapperman, Francis C.; and Kipple, Harry P., 3,693,842.
- Kappers Klimtechnik GmbH & Co., KG: See—
Brylka, Rudolf; and Kleinwachter, Hans-Jurgen, 3,666,174.
- Kappes, Alfred: See—
Stephan, Gerhard; Harst, Heinz; Laux, Gunter; and Kappes, Alfred, 3,640,799.
- Kappes, Ben E.: See—
James, Peter; Brennan, Martin J.; and Kappes, Ben E., 3,647,973.
- Kappes, Werner, to Krone GmbH. PCM decoder with expansion characteristic. 3,705,359, 12-5-72, Cl. 329-104.000.
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- Kappus, Peter G.: See—
Krebs, James Norton; and Kappus, Peter G., 3,673,802.
- Kaprelian, Edward K.: See—
Schwartz, Morris; Castedello, William; and Kaprelian, Edward K., 3,638,875.
- Kapsambelis, Christos B.: See—
Tuhro, Richard H.; and Kapsambelis, Christos B., 3,668,409.
- Kapsambelis, Christos Basil; and Collins, David Janett, to Computer Identics Corporation. Identification and registration system. 3,673,389, 6-27-72, Cl. 235-61.111.
- Kaptur, Robert E.: See—
Cork, Gordon H.; Tenniswood, David M.; and Kaptur, Robert E., 3,677,099.
- Kapun, Walter, to Wiener Schwachstromwerke Gesellschaft m.b.H. Arrangement for discharging predetermined amounts of molten metal from a vessel. 3,675,911, 7-11-72, Cl. 266-38.000.
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McGuire, Mary H.; and Kapur, Chandra, 3,643,662.
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- Karabela, Arthur E.: See—
Saylak, Donald; and Karabela, Arthur E., 3,650,858.
- Karady, Sandor: See—
Sietzinger, Meyer; Karady, Sandor; Ly, Manuel G.; and Pines, Secmon H., 3,676,480.
- Karafian, Maxim, to Chemical Construction Corporation. Urea synthesis process. 3,668,250, 6-6-72, Cl. 260-555.00a.
- Karaft, George D.: See—
Harding, Philip A.; and Karaft, George D., 3,633,184.
- Karageorge, Louis J. Method and apparatus for forming dental prosthesis. 3,641,670, 2-15-72, Cl. 32-6.
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Britvin, Lev Nikolaevich; Sergeev, Vitaly Andreevich; Spassky, Konstantin Semenovich; Smirnov, Igor Nikolaevich; Scheglov, Gennady Mikhailovich; Shtelmakh, Alexandr Alexandrovich; Prudovsky, Boris Moiseevich; Karakhanian, Vladimir Karpovich; Ivanov, Viktor Vasilievich; and Semenov, Mikhail Ivanovich, 3,659,969.
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Dwyer, John R., Jr.; and Karasa, Alvydas P., 3,641,749.
- Karasawa, Kazuo: See—
Suzuki, Yoshiji; Hayashi, Ikuo; Karasawa, Kazuo; and Shimada, Mitsuhiro, 3,700,953.
- Karasev, Mikhail Andreevich: See—
Shtin, Lev Mikhailovich; Grebnev, Nikolai Feodosovich; Satovskaya, Ljudmila Sergeevna; Rasseikin, Mikhail Grigorievich; Khirdzhiev, Sergei Grigorievich; Perevozchikov, Evgeny Titovich; Zagulina, Sofia Stepanovna; Duda, Vladimir Nikolaevich; and Karasev, Mihail Andreevich, 3,664,168.
- Karaski, Ilya Lvovich: See—
Voronin, Grigory Ivanovich; Vzorov, Mikhail Ivanovich; Karaski, Ilya Lvovich; Lyagushkin, Jury Dmitrievich; Perepletchikov, Leonid Yakovlevich; Khokhlova, Nina Dmitrievna; and Petrov, Jury Mikhailovich, 3,650,197.
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- Karataev, Gury Sergeevich: See—
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- Kardas, Alan: See—

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- Kardashian, Vahram S., to Honeywell Inc. Anisotropic thin film plated wire magnetometer utilizing a coil of plated wire having a plurality of turns. 3,657,641, 4-18-72, Cl. 324-43.
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Higashi, Louis M.; and McEvers, Herbert R., 3,650,828.
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Hiller, Carl Duane; and Karge, Harold W., 3,691,751.
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Palmer, Neil R.; Karge, Joseph R.; and Erickson, Kenneth W., 3,688,228.
- Karger, Wolfgang: See—
Adler, Karl; and Karger, Wolfgang, 3,707,710.
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Weyrich, Arthur G.; Bertrand, Richard R.; and Karinski, Edwin D., 3,691,425.
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Spire, Etienne; and Karinthi, Pierre, 3,664,652.
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Palopoli, Frank P.; Blohm, Thomas R.; and Kariya, Takashi, 3,647,863.
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Clayton, David Henry; and Karkalas, John, 3,679,431.
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Frenyo, Pal; Hafer, Karl-Heinz; Karkutt, Reimund; and Pelka, Walter, 3,675,971.
- Karl-Heinz, Eggert: See—
Heinz, Freiwald; and Karl-Heinz, Eggert, 3,705,568.
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McQuary, Kenneth L.; Karlin, George H.; and Lane, Bert, 3,675,301.
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Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Polyakov, Boris Nikolaevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich, 3,688,833.
- Karll, Robert E.: See—
Lee, Richard J.; and Karll, Robert E., 3,689,561.
- Piasek, Edmund J.; and Karll, Robert E., 3,634,515.
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- Karlson, Eskil L.: See—
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Levy, Edward F.; Karlson, Roy H.; and Hornig, Ursula E., 3,638,327.
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Akesson, Yngve Reinhold; and Karlsson, Eve Torkel Gilbert, 3,658,132.
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Maase, Robert; and Karlstrom, Karl R. M., 3,669,027.
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Johnson, Robert Norman; Karol, Frederick John; and Pilato, Louis Anthony, 3,642,749.
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- Karolidis, Charalampos Alexandros. Combination afterburner and auxiliary muffler. 3,661,529, 5-9-72, Cl. 23-277.00c.
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Figge, Irving E.; and Karp, Bernard L., 3,689,345.
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Vadasz, Leslie L.; and Karp, Joel A., 3,706,079.
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Smythe, John W.; and Karp, Philip I., 3,671,230.
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Kisfaludy, Lajos; Patthy, Agnes, nee Lukats; Dancsi, Lajos; Domok, Livia, nee Kis-Vigh; Karpati, Egon; and Szporny, Laszlo, 3,642,805.
- Karpatkin, Margaret Howell: *See—*
Johnson, Alan J.; Newman, Jack; and Karpatkin, Margaret Howell, 3,652,530.
- Karpenko, Irene M.: *See—*
Rylander, Paul N.; Karpenko, Irene M.; and Pond, George R., 3,694,509.
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Johnson, Robert W.; and Karpiel, Harvey B., 3,671,070.
- Karpman, David Bentsionovich: *See—*
Kononov, Boris Leonidovich; Kildishev, Vasily Semenovich; Kaplunov, Vadim Borisovich; Tokarev, Vladimir Ivanovich; Spivak, Boris Volkovich; Byaly, Boris Ilich; Chigirinsky, Alexander Abramovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kariashvsky, Pavel Yakovlevich; and Cheremisov, Ivan Yakovlevich, 3,683,220.
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Kostenko, Alla Elisbarovna; Karpukhina, Valentina Vasilievna; Stopyaga, Valentina Petrovna; Freidlin, Gilia Naumovich; Adamov, Ary Artemovich; and Berezhnaya, Lidia Fedotovna, 3,660,528.
- Karr, Gerald H.: *See—*
Smollen, Leonard E.; Larson, Ralph I., Jr.; and Karr, Gerald H., 3,633,984.
- Karr, Lawrence J.; and Fried, Norman, to TRW Inc. Coaxially adjusted optical mount. 3,700,313, 10-24-72, Cl. 350-288.000.
- Karr, Melvin R.; and Hodge, Dean E., to Ralston Purina Company. Feed intake limiting composition for cattle. 3,669,676, 6-13-72, Cl. 99-7.000.
- Karr, Michael A. Valve operator apparatus. 3,672,262, 6-27-72, Cl. 92-140.000.
- Karr, Paul F. Door actuated dispenser having bellows as timing means. 3,680,739, 8-1-72, Cl. 222-70.000.
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- Karras, Ernest C. Answering time recorder for telephone apparatus. 3,636,259, 1-18-72, Cl. 179-8.
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- Karrels, Alvin J. Balancer. 3,659,463, 5-2-72, Cl. 73-480.
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- Karsnak, George D., to U.S. Engineering Company, Inc. Ram head and adjustable connector combination. 3,685,341, 8-22-72, Cl. 72-450.000.
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Glasow, Gunthard; Grosse, Klaus; Hykel, Knut; Schleifer, Werner; Karste, Eberhard; and Kliche, Helmut, 3,696,766.
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- Kart, Frederick H. Automatic pistol and sub-caliber conversion therefor. 3,657,959, 4-25-72, Cl. 89-128.
- Kartasuk, Ray; and Gloridso, Ray, to Wilton Corporation. Quick engaging and disengaging nut mechanism. 3,669,440, 6-13-72, Cl. 269-181.000.
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- Kartchner, Earl M.; Van Horn, Gary R.; and Wallace, Richard A., to Sperry Rand Corporation. Two-way communication system employing two-clock frequency pseudo-noise signal modulation. 3,665,472, 5-23-72, Cl. 343-175.000.
- Karten, Marvin J., to USV Pharmaceutical Corporation. Carbamoyl oximes. 3,636,111, 1-18-72, Cl. 260-566.
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Leonard, George E., 3,696,493.
- Moore, Lowell B.; Keating, Raymond J.; and Underwood, Warren, 3,700,387.
- Kartridge Pak Co., The: *See—*
Johnson, Lloyd D., 3,651,836.
- Rousseau, Roy S.; Keating, Raymond J.; and Steinke, Gary L., 3,664,085.
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- Kartzmark, Robert: *See—*
Gilbert, John B.; and Kartzmark, Robert, 3,658,692.
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Yamaka, Biso; Karube, Norio; and Akiyama, Masakazu, 3,660,776.
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- Karubian, Ralph. Separable connection means for reciprocating saw blades. 3,703,036, 11-21-72, Cl. 30-339.000.
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Okano, Teruo, 3,681,561.
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- Karzhev, Vladimir Ivanovich: *See—*
Nesterovsky, Vsevolod Vladimirovich; Khmelnsky, Julius Lazarevich; Karzhev, Vladimir Ivanovich; Silchenko, Ekaterina Ivanovna; Goncharova, Nina Vasilievna; Svirina, Valentina Petrovna; Maikova, Margarita Viktorovna; and Murashkina, Marfa Markovna, 3,649,96.
- Karzov, Yuri Nikolaevich: *See—*
Budman, Moisei Izrailevich; Kaganovsky, Frederik Isaakovich; Kapitanov, Nikolai Ivanovich; Karzov, Yuri Nikolaevich; Nadtochenko, Andrei Fedorovich; Slavetsky-Kotvitsky, Eduard Sebestyanovich; and Shorokhov, Leonid Pavlovich, 3,668,921.
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Jindra, Karel; Pavlik, Kamil; Kas, Josef; Kocian, Zdenek; Hanjs, Vaclav; and Tyls, Jaroslav, 3,681,907.
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Iwasaki, Koichiro; Yamaguchi, Kazuo; Kakogawa, Genjiro; Ohtsuka, Yasuo; and Kasahara, Kanji, 3,642,748.
- Kasahara, Koichi: *See—*
Kikuchi, Masao; Kawashima, Toshihide; Kasahara, Koichi; and Nagayashi, Sancyoshi, 3,636,265.
- Kasahara, Nobuo: *See—*
Hashimoto, Hideo; Kasahara, Nobuo; and Yoshino, Toshio, 3,679,369.
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- Kasahara, Yasuo, 50% to Kabushiki Kaisha Nakatani. Circuit breaker. 3,702,980, 11-14-72, Cl. 335-16.000.
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Abe, Zenmon; Suzuki, Takaji; Tsunoka, Masayuki; Kimura, Eiichi; Akazome, Teizo; Obayashi, Kanji; and Kasai, Gengo, 3,658,055.
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Yamamura, Katsumi; Harigaya, Hiroshi; Kasai, Kazutomo; and Asahina, Michio, 3,677,744.
- Kasai, Keiji: *See—*
Iwama, Masakuni; Yamamoto, Toshihiko; Kasai, Keiji; Nakagawa, Yoshinobu; and Endo, Takaya, 3,649,285.
- Sakamoto, Kenro; Tanaka, Motoaki; Hanzawa, Teruo; and Kasai, Keiji, 3,700,454.
- Sato, Shui; Sugita, Sadao; Nakajima, Tomio; and Kasai, Keiji, 3,698,907.
- Kasai, Kouhei: *See—*
Hasegawa, Hiroaki; Kasai, Kouhei; Namizuka, Toshio; and Moriguchi, Katsuo, 3,684,785.
- Kasai, Masami: *See—*
Yamamura, Katsumi; and Kasai, Masami, 3,647,576.
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- Kasai, Sakae, to Crystal Sewing Machine Ind., Co., Ltd. Tow sewing machine capable of switching between zigzag stitch forming and straight stitch forming operations. 3,633,527, 1-11-72, Cl. 112-159.
- Kasai, Shozo; Shimizu, Daisaburo; and Katagiri, Shinjiro, to Hitachi, Ltd. Electron lens for electron microscope and the like. 3,643,191, 2-15-72, Cl. 335-212.
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Yamamoto, Tadaaki; and Kasai, Toshiyuki, 3,675,986.
- Yamamoto, Tadaaki; and Kasai, Toshiyuki, 3,687,555.
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Dulis, Edward J.; Kasak, August; and Stasko, William, 3,681,058.
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- Kasama, Ryoji; and Kuriyama, Sigeru, to Hitachi, Ltd. Thyristor chopper controlling circuit. 3,659,119, 4-25-72, Cl. 307-252.
- Kasama, Ryoji; and Suda, Seiji, to Hitachi, Ltd. Fuel injection controlling system for internal combustion engine. 3,659,565, 5-2-72, Cl. 123-32.
- Kasano, Hiroyuki; and Kawamura, Masao, to Hitachi, Ltd. Solid state electronic device utilizing difference in effective mass. 3,678,302, 7-18-72, Cl. 307-299.000.
- Kasano, Hiroyuki; Kurata, Kazuhiro; Ogirima, Masahiko; Kawamura, Masao; and Kusumoto, Hazime, to Hitachi, Ltd. Solid state electronic device using quaternary compound semiconductor material consisting of gallium, indium, phosphor and arsenic. 3,694,759, 9-6-72, Cl. 330-4.900.
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- Kase, Charles R., Jr.: *See—*
Trifunovic, Alexander L.; and Kase, Charles R., Jr., 3,681,819.
- Kase, Heino: *See—*
Sage, Bradley B.; and Kase, Heino, 3,682,003.
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- Philippson, Rainer; Gibian, Heinz; Muftic, Mahmud; and Kaspar, Emanuel, 3,639,433.

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- Kastning, Marie-Louise Hermine: *See—*
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- Irakura, Tsutomu; Kasuga, Kazuga; and Segawa, Mitsuru, 3,647,805.
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- Kasyanov, Grigory Ivanovich: *See—*
- Andoniev, Sergei Mikhailovich; Kutykovich, Dorina Borisovna; Gerber, Leonid Moiseevich; Kudinov, Gennady Alexandrovich; Kasyanov, Grigory Ivanovich; Nissenbaum, Tamara Izovna; Raikovskiy, Yuri Borisovich; Somchenko, Mikhail Semenovich; and Filipiev, Oleg Vadimirovich, 3,692,103.
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- Arndt, Allen L.; and Kaszynski, Albert Z., 3,657,492.
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- Tatematsu, Kenzo; Hosono, Hiroo; Katagiri, Toshio; Hayashi, Yoshiaki; and Ando, Hiroyuki, 3,700,818.
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- Tokita, Tetsuo; Fuse, Yuzo; and Katagiri, Yoshiharu, 3,668,464.
- Yoshida, Susumu; Ohgoshi, Akio; Miyaoka, Senri; and Katagiri, Yoshiharu, 3,678,318.
- Katagiri, Yoshio: *See—*
- Kaneko, Haruo; and Katagiri, Yoshio, 3,638,218.
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- Hajduk, Jenő; and Katai, Mihaly, 3,675,852.
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- Katamay, Myron M.: *See—*
- Khan, Mahmood H.; and Katamay, Myron M., 3,697,651.
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- Miyahara, Akimitsu; Fujita, Minoru; Yamamoto, Isao; and Katamura, Tamako, 3,661,775.
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- Yasuda, Toshitaka; Katayama, Shiro; and Suzuki, Yutaka, 3,650,954.
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- Noyori, Yasuyuki; Uehira, Eiji; and Katayama, Tadao, 3,705,273.
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- Levin, Yehuda; Blumberg, Shmaryahu; Katchalski, Ephraim; and Goldstein, Leon, 3,650,900.
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Ito, Tetsuro; Kato, Goshi; and Kimura, Atsuyoshi, 3,634,074.
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Iimura, Kazuo; Sawada, Kiyoshi; and Kato, Hiroki, 3,698,817.
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Hayakawa, Yoshihide; Kawano, Hideo; and Kato, Hirotsu, 3,656,961.
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Kodera, Yoshihide; Kato, Jun; Shimada, Kazuo; Suzuki, Morio; Ohse, Hidetaka; Ohshima, Satoshi; and Kuriki, Yasunori, 3,654,143.
- Kato, Junichi: *See*—
Fukui, Hiroshi; Iwatsu, Gakuji; and Kato, Junichi, 3,705,718.
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Ochiai, Kohei; and Kato, Kiyoakira, 3,653,309.
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Okazaki, Kaoru; Shimokawa, Yoichi; Maeda, Taneo; Igawa, Keisuke; Okagawa, Chikatsu; and Kato, Koichi, 3,639,502.
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Kamogawa, Hiroyoshi; and Kato, Masao, 3,652,492.
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Goto, Masahiro; Noto, Tetsuo; Kato, Nitsuya; Kimura, Morio; and Watanabe, Tadashi, 3,684,752.
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Sato, Tetsuya; Miyatake, Haruo; and Kato, Osamu, 3,631,718.
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Masaki, Kenji; and Kato, Sinzo, 3,693,947.
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Nakaoka, Kenji; Kato, Tadao; and Matsuhisa, Seikichi, 3,636,095.
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Noguchi, Masaaki; Sumiyoshi, Masaharu; Sakakibara, Shigeru; Ito, Osamu; and Kato, Takaaki, 3,667,322.
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Hishida, Yukio; Kato, Takami; and Kurachi, Hisao, 3,638,775.
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Kinjo, Hisao; Takashima, Seiichi; Kato, Takatoshi; and Iwabuchi, Yoshitaka, 3,646,261.
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Fujimura, Hajime; Hori, Mikio; Masuda, Toru; Sawa, Yoichi; and Kato, Takeshi, 3,686,167.
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Nakamura, Masakatsu; Yonezawa, Toshio; Kato, Taketoshi; Watanabe, Masaharu; and Akatsuka, Minoru, 3,694,707.
- Kato, Taketoshi: *See*—
Kinjo, Hisao; Iwabuchi, Yoshitaka; Takashima, Seiichi; Kato, Taketoshi; and Okano, Keigo, 3,641,278.
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- Kato, Tetsuji; Izumi, Mikio; Hayashibara, Yuji; and Suenaga, Kazuo, to Mitsubishi Rayon Co., Ltd. Rubbery acrylic resin composition containing a resinous 4,4'-dioxo diarylalkane polycarbonate. 3,655,824, 4-11-72, Cl. 260-873.
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Yoshikawa, Yoshio; Kondo, Hiroshi; Sugio, Akitoshi; and Kato, Tomotake, 3,664,035.
- Kato, Toshikazu: *See*—
Matsuzaki, Soichiro; Sato, Masanobu; and Kato, Toshikazu, 3,643,562.
- Kato, Toshio: *See*—
Genma, Susumu; Kuroda, Akio; Kato, Toshio; and Kishi, Fusao, 3,681,225.
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Tamura, Takaaki; Kato, Tsutomu; and Sakamoto, Kazuyoshi, 3,663,457.
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- Katona, Joseph W.; and Crouse, David W., to Mills Products, Inc. Oven door window unit for self-cleaning ovens. 3,665,915, 5-30-72, Cl. 126-200.000.
- Katrus, Oleg Alexandrovich: *See*—

- Vinogradov, Gleb Andreevich; Katrus, Oleg Alexandrovich; and Otkok, Anatoly Ilich, 3,689,209.
- Kats, Mindert: *See*—
Horn, Cornelis Jacob; Kats, Mindert; Marcelinus, Sigibertus; and Van Uffelen, Catherinus, 3,691,934.
- Katselis, George N. Nicolas: *See*—
Swarbrick, Richard; and Katselis, George N. Nicolas, 3,634,671.
- Katserswerth, Hans-Peter, to Siemens Aktiengesellschaft. Door assembly for an enclosure having a tight shielding for high frequency emissions. 3,691,688, 9-19-72, Cl. 49-394.000.
- Katsibas, Themistoklis: *See*—
Dalibor, Horst; and Katsibas, Themistoklis, 3,666,833.
- Katsigarakis, Stylianos G. Cabinet bed. 3,638,249, 2-1-72, Cl. 5-159.
- Katsman, Berta Osipovna: *See*—
Maximovich, Boleslav Ivanovich; Dudko, Daniil Andreevich; Agafonov, Nikolai Georgievich; Maximov, Igor Petrovich; Andreev, Vadim Grigorievich; Lepilov, Nikolai Yakovlevich; Svinov, Alexei Kapitonovich; Slonimsky, Alexandr Borisovich; Volk, Boris Zakharovich; Gubin, Alexandr Ivanovich; and Katsman, Berta Osipovna, 3,677,330.
- Katsoulis, Emanuel G.; and Pryor, William S., to Leesona Corporation. Electrode and method of producing same. 3,668,014, 6-6-72, Cl. 136-120.
- Katsukawa Kogyo Kabushiki Kaisha: *See*—
Ito, Riyoichi, 3,670,900.
- Katsumi, Mamoru: *See*—
Hayashi, Noburo; Katsumi, Mamoru; Ogata, Yuzuru; Arai, Sumio; Kurita, Yoshiaki; and Inamori, Yoshihiro, 3,639,468.
- Katsumori, Teiji, to Tokico Ltd. Vehicle suspension mechanism. 3,647,239, 3-7-72, Cl. 280-124.
- Katsumoto, Tomiyasu: *See*—
Abe, Isamu; Yashiro, Hideo; Sori, Naoyuki; Hatano, Sotaro; Katsumoto, Tomiyasu; and Suzuki, Tadao, 3,670,395.
- Katsuragawa Denki Kabushiki Kaisha: *See*—
Furuichi, Masayoshi, 3,687,539.
- Furuichi, Masayoshi, 3,698,926.
- Kinoshita, Koichi, 3,655,369.
- Kinoshita, Koichi, 3,676,117.
- Katsuragawa Kenki Kabushiki Kaisha: *See*—
Furuichi, Masayoshi; Miyakawa, Seiichi; and Masuda, Nobuchika, 3,656,021.
- Katsuragi, Kaoru: *See*—
Iijima, Taizo; Yamazaki, Issei; Mori, Shunji; Genchi, Hiroshi; and Katsuragi, Sumio, 3,668,638.
- Katsuragi, Mamoru, to Minolta Camera Kabushiki Kaisha. Daylight film developing tank. 3,703,859, 11-28-72, Cl. 95-90.500.
- Katsuragi, Sumio: *See*—
Iijima, Taizo; Yamazaki, Issei; Mori, Shunji; Genchi, Hiroshi; and Katsuragi, Sumio, 3,668,638.
- Sakai, Kunio; Katsuragi, Sumio; and Watanabe, Sadakazu, 3,668,637.
- Katsurawasa, Takashi: *See*—
Kurosawa, Yoshinori; and Katsurawasa, Takashi, 3,635,446.
- Katsuren, Roy I.; and Salisbury, Lloyd L., to United States of America, Army. Self-locking clutch. 3,692,161, 9-19-72, Cl. 192-8.00r.
- Katsuro, Iio: *See*—
Masayasu, Arikawa; Motomi, Kano; Katsuro, Iio; and Toshio, Tanaka, 3,669,335.
- Katsurogawa Denki Kabushiki Kaisha: *See*—
Furuichi, Masayoshi; and Konuma, Takaaki, 3,697,722.
- Katsuta, Kihei: *See*—
Iwahashi, Koji; Ueda, Kenji; and Katsuta, Kihei, 3,684,672.
- Katsuura, Kanji; and Igi, Keishiro, to Kurashiki Rayon Co., Ltd. Polyesters of improved dyeability and light fastness. 3,639,352, 2-1-72, Cl. 260-75.
- Katsuyama, Harumi: *See*—
Ono, Hisatake; Watarai, Syu; and Katsuyama, Harumi, 3,647,428.
- Ono, Hisatake; Osada, Chiaki; Watarai, Syu; and Katsuyama, Harumi, 3,697,266.
- Katsuyama, Shigeo; Asami, Atsumi; Watanabe, Masahide; Sato, Tsutomu; Norimatsu, Toshiaki; and Nakajima, Eizo, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for shaping a bundle wet-spun continuous filaments. 3,673,819, 6-27-72, Cl. 8-137.000.
- Katsuyama, Takehiro: *See*—
Kawai, Atsushi; Katsuyama, Takehiro; Suzuki, Migaku; and Takimoto, Hisao, 3,697,637.
- Katsuyama, Yoshihisa: *See*—
Shioda, Hirohisa; Namiki, Isamu; Hori, Hisako; and Katsuyama, Yoshihisa, 3,639,483.
- Katsuyama, Yoshihisa, to Nippon Kogaku K.K. Device for controlling angle of opening of shutter for movie camera. 3,644,025, 2-22-72, Cl. 352-217.
- Katsuyama, Yoshihisa, to Nippon Kogaku K.K. Light receiving means in automatic focusing device. 3,688,673, 9-5-72, Cl. 95-44.00r.
- Katter, Joseph L.: *See*—
Katter, Raymond G.; and Katter, Joseph L., 3,667,963.
- Katter, Raymond G.; and Katter, Joseph L. Method of making pizza. 3,667,963, 6-6-72, Cl. 99-86.000.
- Katto, Hisao; Kobayashi, Kazunari; Koga, Yasushi; and Koyama, Machiko, to Hitachi, Ltd. Method of manufacturing a metallic oxide film on a substrate. 3,668,095, 6-6-72, Cl. 204-164.000.
- Katum Corporation: *See*—
Farmer, Robert B., 3,683,182.
- Katuta, Tadao, to Tokyo Shibaura Electric Co., Ltd. Apparatus for embedding metal pins in a glass panel. 3,695,860, 10-3-72, Cl. 65-154.000.
- Katva, Ilmari, to Broen Armatur I/S. Mixing valve having a swivel spout. 3,653,407, 4-4-72, Cl. 137-615.
- Katva, Ilmari, to Continental Can Company, Inc. Mixing valve having a swivel spout. 3,656,652, 4-18-72, Cl. 137-615.
- Katz, Carlos: *See*—
Eager, George S., Jr.; Silver, David A.; and Katz, Carlos, 3,673,307.
- Katz, Edward; Ehrenthal, Irving; and Scallet, Barrett L., to Anheuser-Busch, Incorporated. Method of producing sweet syrup by resin isomerization of dextrose syrup. 3,684,574, 8-15-72, Cl. 127-46.00a.
- Katz, Edward A. Artificial hand with violin bow adapter. 3,656,187, 4-18-72, Cl. 3-12.800.
- Katz, Erich: *See*—
Gorman, William G.; and Katz, Erich, 3,692,898.
- Katz, George M.; and Levy, Arthur L., to Scientific Specialties, Ltd. Colorimeter. 3,656,856, 4-18-72, Cl. 356-206.000.
- Katz, Gilbert: *See*—
Sheth, Prabhakar Ranchordas; and Katz, Gilbert, 3,632,778.
- Katz, Harold W.: *See*—
Face, William W.; Katz, Harold W.; and Miller, Murray H., 3,668,307.
- Katz, Helmut: *See*—
Hofmann, Horst; and Katz, Helmut, 3,676,731.
- Hofmann, Horst; Huebner, Erwin; and Katz, Helmut, 3,681,644.
- Katz, Helmut, to Siemens Aktiengesellschaft. Cathode with dot-shaped emission. 3,681,641, 8-1-72, Cl. 313-336.000.
- Katz, Herbert, to General Electric Company. Compensated feedback gas turbine augmentation control system. 3,656,301, 4-18-72, Cl. 60-236.
- Katz, Hilbert John: *See*—
Delmenico, Jack; and Katz, Hilbert John, 3,639,098.
- Katz, Howard: *See*—
Sternberg, Hyman M.; Piacesi, Dante, Jr.; and Katz, Howard, 3,675,577.
- Katz, Ira: *See*—
Evers, William J.; Katz, Ira; Wilson, Richard A.; and Theimer, Ernst T., 3,647,792.
- Mussinan, Cynthia; Giacino, Christopher; and Katz, Ira, 3,677,772.
- Katz, Ira; Wilson, Richard A.; and Giacino, Christopher, to International Flavors & Fragrances Inc. Novel flavoring compositions utilizing thiazole derivatives. 3,681,088, 8-1-72, Cl. 99-140.00r.
- Katz, Ira; Evers, William John; and Giacino, Christopher, to International Flavors & Fragrances, Inc. Sulfur-containing flavoring compositions and processes therefor. 3,706,577, 12-19-72, Cl. 99-140.00r.
- Katz, Isadore Edward: *See*—
Grane, Henry R.; and Katz, Isadore Edward, 3,665,048.
- Katz, Jacob M. Tamper-proof closures for wall-mounted receptacles and the like. 3,633,787, 1-11-72, Cl. 220-43.
- Katz, Joel, to United States of America, Air Force. Digital bandpass detector. 3,634,772, 1-11-72, Cl. 328-138.
- Katz, Klaus: *See*—
Forster, Hans-Joachim M.; and Katz, Klaus, 3,687,014.
- Katz, Leon: *See*—
Daniels, Wiley E.; Field, Nathan D.; and Katz, Leon, 3,657,392.
- Mutaffis, Thomas D.; Katz, Leon; and Grosser, Frederick, 3,660,349.
- Plue, Arnold F.; and Katz, Leon, 3,701,769.
- Katz, Michel, to Aurium Research Corporation. Dental alloy. 3,667,936, 6-6-72, Cl. 75-134.
- Katz, Norman. Cleaning pollutants from furnace and incinerator smoke and the like. 3,640,054, 2-8-72, Cl. 55-228.
- Katz, Norman, to Goodman, H., & Sons, Inc. Dual barrettes. 3,678,946, 7-25-72, Cl. 132-48.00r.
- Katz, Otto; and Kranich, Werner, to A. W. Faber-Castell. Lead dispenser having slide actuated cover. 3,648,891, 3-14-72, Cl. 221-248.
- Katz, Philip Harvey: *See*—
Robinson, Denis; Whelan, Richard Howard; Katz, Philip Harvey; and Montuori, Anthony George, 3,682,663.
- Katz, Robert. Process and apparatus for heat and/or mass transfer by direct contact. 3,687,425, 8-29-72, Cl. 261-114.00r.
- Katz, Robert E.: *See*—
Katz, Robert E.; and Grainger, Frederick (said Grainger assor. to said), 3,665,817.

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- Katz, Sherwin D.; and Levon, Joseph M., to I-T-E Imperial Corporation. Proportional valve. 3,667,722, 6-6-72, Cl. 251-30.000.
- Katz, Solomon; and Laglenne, Renee. Method of protecting eye makeup. 3,646,214, 2-29-72, Cl. 424-362.
- Katz, Woolf: *See—*
Polson, Alfred; and Katz, Woolf, 3,640,809.
- Katzakian, Arthur, Jr.: *See—*
Steele, Roger B.; Katzakian, Arthur, Jr.; Scigliano, Joseph J.; and Barry, Jude W., 3,635,869.
- Katzenfurt, Karl Cios; and Keiner, Fritz, to Leitz, Ernst, G.m.b.H. Shutter release mechanism in photographic cameras. 3,701,307, 10-31-72, Cl. 95-10.00p.
- Katzenmeyer, James H.; and Rossi, Harry J., to Continental Can Company, Inc. Carton. 3,658,235, 4-25-72, Cl. 229-33.
- Katzenstein, William: *See—*
Schultz, Herman S.; Katzenstein, William; and Williams, Earl P., 3,676,408.
- Katzer, Ernst: *See—*
Baronnet, Pierre; and Katzer, Ernst, 3,684,106.
Baronnet, Pierre; and Katzer, Ernst, 3,692,275.
- Katzman, Allison; Nix, Donald F.; and Glass, Marvin I., to Glass, Marvin, & Associates. Paint design set. 3,648,652, 3-14-72, Cl. 118-323.
- Katzman, Allison, to Glass, Marvin, & Associates. Board game apparatus. 3,649,024, 3-14-72, Cl. 273-135.
- Katzman, Allison W.: *See—*
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Noemer, Ewald Fred; Kau, Franz J.; and Ludemann, Heinz, 3,661,458.
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Duncan, William E.; Kau, Harry L. F.; and Livermont, Lawrence H., 3,636,746.
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Van Auken, John; Kaufman, M. Gene; and Pfaff, William A., 3,677,637.
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Van Auken, John A.; Kaufman, Mahlon Gene; and Blank, Fritz, 3,677,635.
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Johnson, Irvin D.; Togneri, Mauro G.; and Kaufmann, Eduard P., 3,693,163.
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Baumgartner, Werner Richard; Walker, Erich; Kaufmann, Hans Peter; and Bieck, Canton, 3,683,613.
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Bossmann, Clifford W.; Kaufmann, Harland A.; and Mathes, Charles E., 3,698,069.
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Achler, Howard S.; and Kaufmann, Harold, 3,683,735.
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Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, 3,650,902.
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Gabbard, O. Gener; and Kaul, Pradman, 3,707,680.
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Lepold, Manfred F.; Heinze, Gerhard; Kaule, Gustav; and Podschus, Ernst, 3,703,797.
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Brazda, Ladislav, deceased; Brazdova, Dagmar; Prochazka, Miloslav; Kaulich, Karel; and Ozdian, Josef, 3,643,413.
Prochazka, Miloslav; and Kaulich, Karel, 3,643,414.
Prochazka, Miloslav; Cesenek, Bedrich; Mach, Vladimir; Kaulich, Karel; Zdenka, Cervený; and Bradzda, Ladislav, 3,648,450.
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Strehler, Erich; Kaumle, Fritz; and Rolf, Stuttgart, 3,686,971.
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Ameling, Bernhard; and Kaup, Siegfried, 3,698,212.
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Villiers-Fisher, John F.; and Kaupas, Philip F., 3,636,106.
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Hewes, Ellsworth D.; and Kaupp, Norbett H., 3,661,452.
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Sullivan, Bruce M.; and Kaus, Carl M., 3,672,130.
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Worner, Anton; and Wilbert, Helmut, 3,643,314.
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Kader, Reiner, 3,632,267.
- Kautsky, George J.: *See—*
Richardson, Wallace L.; Kautsky, George J.; and Barusch, Maurice R., 3,674,826.
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Riemann, Karl Heinz; Kautter, Carl Theodor; and Baumann, Ulrich, 3,658,895.
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Belleau, Bernard R.; and Kavadias, Gerry, 3,691,231.
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Tokarz, Richard D.; and Kaveckis, Joseph E., 3,699,200.
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Sumiyoshi, Masaharu; Suzuki, Akira; Kawabata, Minoru; and Sakurai, Shizuki, 3,689,120.
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Kawabe, Tsuneo; Sakakibara, Naoji; and Kawabata, Yasuhiro, 3,694,039.
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Ono, Minoru; Momoi, Toshimitsu; and Kawachi, Youji, 3,643,137.

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Kawata, Ryuichi; Kawada, Hirotsu; Ohmura, Tadayoshi; and Uematsu, Sumio, 3,639,564.
Kawata, Ryuichi; Kawada, Hirotsu; Ohmura, Tadayoshi; and Uematsu, Sumio, 3,692,562.
Kawada Kogyo Kabushiki Kaisha: *See*—
Kawada, Tadao, 3,648,598.
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Kunishi, Takeshi; Kawade, Yoshihiro; Yamakita, Koiti; Takaki, Ryojo; and Yamanaka, Katuhiro, 3,635,305.
Kawagoe, Hiroto: *See*—
Tominaga, Yoshio; Kawagoe, Hiroto; and Teranishi, Yuichi, 3,688,165.
Kawaguchi, Akihiro: *See*—
Nishikawa, Hideo; Kawaguchi, Akihiro; Washimi, Koichi; and Kambayashi, Masaaki, 3,631,920.
Kawaguchi, Harold H., to Physio-Control Corporation. Defibrillation electrode pad and package therefor. 3,685,645, 8-22-72, Cl. 206-63,20r.
Kawaguchi, Hideo: *See*—
Nishio, Fumihiko; Tsuji, Nobuo; Ikeda, Teppei; and Kawaguchi, Hideo, 3,645,740.
Waragai, Toshihiko; Kawaguchi, Hideo; and Saegusa, Takeo, 3,651,161.
Yamamoto, Nobuo; and Kawaguchi, Hideo, 3,704,167.
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Mito, Satoru; Shimotori, Kazumi; Kawai, Mituo; and Kawaguchi, Kanzi, 3,676,110.
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Kawaguchi Rubber Industrial Co., Ltd.: *See*—
Kawaguchi, Ryuzo, 3,642,562.
Kawaguchi, Ryuzo, to Kawaguchi Rubber Industrial Co., Ltd. Material for blackboards comprising synthetic resin and process for making the same. 3,642,562, 2-15-72, Cl. 161-88.
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Iwao, Norito; Ito, Akira; Maeda, Minoru; Kawaguchi, Tadashi; and Nobukuni, Nakano, 3,653,650.
Iwao, Norito; Naito Koichiro; Kawaguchi, Tadashi; Maeda, Minoru; and Norita, Toshihito, 3,681,052.
Kawaguchi, Takuo: *See*—
Segawa, Hiroyuki; Kurosaki, Shoji; and Kawaguchi, Takuo, 3,657,184.
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Kawaguchi, Yoshiaki: *See*—
Yamada, Shoji; and Kawaguchi, Yoshiaki, 3,688,243.
Kawahara, Ichizo, to Olympus Optical Co., Ltd. Electrically driven camera for an endoscope. 3,641,898, 2-15-72, Cl. 95-31.
Kawahara, Kazuhiro: *See*—
Yamamoto, Mititaka; Kawahara, Kazuhiro; and Morita, Tadao, 3,665,162.
Kawahara, Shigemio: *See*—
Murakami, Masuo; Kawahara, Shigemio; Inukai, Noriyoshi; Ishida, Sanac; Imai, Kazuo; and Ozasa, Teruaki, 3,687,950.
Kawahara, Testuyo: *See*—
Tanaka, Akira; Hattori, Tsuyoshi; Anno, Hirotomo; and Kawahara, Testuyo, 3,673,283.
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Kawahara, Tomosaburo: *See*—
Oyabu, Yoshiaki; Furuno, Nobuo; Kawahara, Tomosaburo; and Kawai, Hitoshi, 3,707,446.
Kawahara, Yoshio, to Dow Chemical Company, The. Process for the vapor phase rearrangement of hydrocarbons utilizing microwave energy. 3,663,394, 5-16-72, Cl. 204-168.
Kawaharada, Minoru: *See*—
Shimizu, Mineo; Takechi, Hiroshi; Kajioka, Hiroyuki; and Kawaharada, Minoru, 3,668,016.
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Kawahata, Shigeo: *See*—
Isobe, Kenjiro; Tsuji, Hitoshi; Kawahata, Shigeo; Mori, Eiji; and Ito, Katsuhiko, 3,657,910.
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Kawai, Hisasi: *See*—
Kubo, Seitoku; Mori, Takakazu; Wakamatsu, Hisato; and Kawai, Hisasi, 3,684,066.
Sumiyoshi, Masaharu; Ito, Osamu; Wakamatsu, Hisato; Kato, Takaaki; and Kawai, Hisasi, 3,680,410.
Wakamatsu, Hisato; Kitano, Akira; and Kawai, Hisasi, 3,652,901.
Wakamatsu, Hisato; Kitano, Akira; and Kawai, Hisasi, 3,662,625.
Wakamatsu, Hisato; Kawai, Hisasi; Ito, Shin; and Kubo, Seitoku, 3,675,511.
Wakamatsu, Hisato; Kitano, Akira; and Kawai, Hisasi, 3,702,572.
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Kawai, Hitoshi: *See*—
Oyabu, Yoshiaki; Furuno, Nobuo; Kawahara, Tomosaburo; and Kawai, Hitoshi, 3,707,446.
Kawai, Isamu; Nishikawa, Atsuro; Takagi, Osamu; Iwata, Akira; and Sugiyama, Kohei, to Sekisui Kagaku Kogyo Kabushiki Kaisha. Process for preparation of ethylenic resin foam. 3,657,165, 4-18-72, Cl. 260-2.5.
Kawai, Kazuo: *See*—
Nakagome, Yukio; Kawai, Kazuo; Yanagidaira, Hidetaka; Shintani, Sotokichi; and Michishita, Isakichi, 3,697,881.
Shintani, Sotokichi; Kawai, Kazuo; and Yanagidaira, Hidetaka, 3,670,251.
Yanagidaira, Hidetaka; Kawai, Kazuo; and Shintani, Sotokichi, 3,674,996.
Kawai, Kiyohisa: *See*—
Noguchi, Shunsaku; Kishimoto, Shoji; and Kawai, Kiyohisa, 3,694,456.
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Kawai, Mituo: *See*—
Mito, Satoru; Shimotori, Kazumi; Kawai, Mituo; and Kawaguchi, Kanzi, 3,676,110.
Kawai, Sadaharu: *See*—
Nakamura, Toshio; Arai, Hidetoshi; Tatekawa, Shozo; and Kawai, Sadaharu, 3,663,077.
Kawai, Shinji, to Kelsey-Hayes Company. Hydraulic braking pressure control system having valve responsible to the oil pressure deviation for vehicles. 3,680,922, 8-1-72, Cl. 303-6,00c.

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Kawai, Tamiyosi: *See*—
Miyahara, Hideaki; Kawai, Tamiyosi; and Takatsuki, Michio, 3,651,523.
Kawai, Yasutaka: *See*—
Koyama, Shigeo; Ohtsuki, Motohiro; Shimatani, Kenji; Yasuda, Masao; Takci, Toru; Kawai, Yasutaka; and Matsushima, Takeshi, 3,644,780.
Kawai, Yoshihiro: *See*—
Imai, Ryoichiro; and Kawai, Yoshihiro, 3,645,720.
Kawai, Yoshihiro: *See*—
Suzuki, Masaru; and Kawai, Yoshihiro, 3,699,286.
Kawai, Yoshihisa, to Minolta Camera Kabushiki Kaisha. Safety system in electrostatic copier. 3,692,401, 9-19-72, Cl. 355-3,000.
Kawakami, Akira, to Hitachi Maxell, Ltd. Secondary battery with in-date ion in the electrolyte. 3,642,539, 2-15-72, Cl. 136-30.
Kawakami, Eiichi, to Aisin Seiki Kabushiki Kaisha. Coupling member. 3,680,900, 8-1-72, Cl. 287-93,000.
Kawakami, Eiji: *See*—
Kanazawa, Kozaburo; Kawakami, Eiji; and Kamiyama, Yasuo, 3,652,814.
Kanazawa, Kozaburo; and Kawakami, Eiji, 3,681,915.
Kawakami, Hejiro: *See*—
Nakamura, Yoshimi; and Kawakami, Hejiro, 3,702,489.
Kawakami, Hiroshi, to Sony Corporation. Magnetic recording and reproducing apparatus. 3,672,684, 6-27-72, Cl. 274-4,00d.
Kawakami, Hirotake, to Sony Corporation. Electro-static phonograph pickup. 3,649,775, 3-14-72, Cl. 179-100,41.
Kawakami, Kazuo: *See*—
Ozutsu, Minoru; Kawakami, Kazuo; and Ishizaki, Sumio, 3,660,015.
Ozutsu, Minoru; Kawakami, Kazuo; Ishizaki, Sumio; and Kurosawa, Masatoshi, 3,671,182.
Kawakami, Kiminari; and Yamagishi, Shizunao, to Nippon Kokan Kabushiki Kaisha. Aluminium killed-steel. 3,681,057, 8-1-72, Cl. 75-124,000.
Kawakami, Koichi, to Yoshida Kogyo Kabushiki Kaisha. Slider holder. 3,685,814, 8-22-72, Cl. 269-49,000.
Kawakami, Tadashi, to Nippon Kogaku K.K. View finder system for a single lens reflex camera. 3,687,038, 8-29-72, Cl. 95-42,000.
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Kawakami, Waichiro: *See*—
Takehisa, Masaaki; Kawakami, Waichiro; Nakajima, Hayato; and Hosaki, Yoshihiko, 3,646,950.
Kawakami, Yohci; Seki, Toshio; and Suzuki, Kozaburo, to Nitto Kasei Co., Ltd. Boron-containing organotin compounds. 3,682,992, 8-8-72, Cl. 260-414,000.
Kawakami, Yukichika: *See*—
Kusuno, Hideaki; Uchida, Miyoji; Segawa, Masahiro; and Kawakami, Yukichika, 3,642,684.
Segawa, Masahiro; and Kawakami, Yukichika, 3,701,749.
Kawaki, Katsumi; and Usui, Masashi, to Tokyo Tokei Seizo Kaisha, Ltd. Tone control signal circuit having tone pulses followed by continuous tone. 3,697,982, 10-10-72, Cl. 340-384,00e.
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Kawakubo, Kazuo, to Canon Kabushiki Kaisha. Copying machine. 3,642,366, 2-15-72, Cl. 355-8.
Kawakubo, Kazuo; and Kurahashi, Akira, to Canon Kabushiki Kaisha. Slit exposure type copying. 3,689,145, 9-5-72, Cl. 355-8,000.
Kawakubo, Mamoru: *See*—
Kato, Takaaki; Kawakubo, Mamoru; Ito, Katsunori; and Wakamatsu, Hisato, 3,665,213.
Kato, Takaaki; Kawakubo, Mamoru; and Ito, Katsunori, 3,673,892.
Wakamatsu, Hisato; Kato, Takaaki; Kawakubo, Mamoru; and Ito, Katsunori, 3,641,844.
Wakamatsu, Hisato; Kato, Takaaki; Kawakubo, Mamoru; and Ito, Katsunori, 3,683,720.
Kawalec, Michael T.: *See*—
Freeman, Richard B.; Kawalec, Michael T.; Maholick, Andrew W.; and Stager, Stanley R., III, 3,678,469.
Kawamata, Masao: *See*—
Kitagawa, Tadashi; Yaguchi, Shoichiro; Yamanobe, Katsuyuki; and Kawamata, Masao, 3,696,316.
Kawamata, Motoo: *See*—
Watanabe, Hiroo; Yamamoto, Koosuke; Abe, Takeshi; and Kawamata, Motoo, 3,695,830.
Kawamata, Tadashi; Hirota, Eiichi; Mihara, Toshihiro; and Terada, Yukio, to Matsushita Electric Industrial Co., Ltd. Tellurium-iron modified chromium dioxides. 3,640,871, 2-8-72, Cl. 252-62,51.
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Kawamatsu, Yutaka; Sugihara, Hirosada; and Morimoto, Hiroshi, to Takeda Chemical Industries, Ltd. Method for producing isoprenoid quinones. 3,657,287, 4-18-72, Cl. 260-396.
Kawaminani, Kohachi. Container sealing device. 3,672,121, 6-27-72, Cl. 53-351,000.
Kawamoto, Birosisa, to RCA Corporation. Microwave apparatus using multiple avalanche diodes operating in the anomalous mode. 3,683,298, 8-8-72, Cl. 331-107,00r.
Kawamoto, Frank T.: *See*—
Hamernik, Edward L.; and Kawamoto, Frank T., 3,643,870.
Hamernik, Edward L.; and Kawamoto, Frank T., 3,643,871.
Kawamoto, Hiroshi: *See*—
Onishi, Akira; Anzai, Shiro; Irako, Koichi; Fujio, Ryota; Hayakawa, Yoshihiro; Kojima, Minoru; and Kawamoto, Hiroshi, 3,644,314.
Kawamoto, Hiroshisa; and Allen, Elmer Lawrence, Jr., to RCA Corporation. Broadband microwave apparatus using multiple avalanche diodes operating in the anomalous mode. 3,702,971, 11-14-72, Cl. 330-57,000.
Kawamoto, Sadao: *See*—
Kobayashi, Kazuo; Okuda, Yoshihiko; and Kawamoto, Sadao, 3,638,072.
Kawamoto, Tamio: *See*—
Takagi, Takeshi; Kawamoto, Tamio; and Miyazaki, Toshio, 3,677,381.
Kawamura, Eiji: *See*—
Terai, Akio; Kawamura, Eiji; Fukumoto, Hisashi; and Aoki, Hidekatsu, 3,696,879.
Kawamura, Hideo: *See*—
Doi, Kazuo; Murakami, Takeru; Kawamura, Hideo; Takaishi, Katsutoshi; and Nakano, Yoshinobu, 3,651,173.
Kawamura, Katsuhiko, to Yamaha Hatsudoki Kabushiki Kaisha. Sheave drive type automatic transmission device. 3,665,781, 5-30-72, Cl. 74-230,170.
Kawamura, Koichi: *See*—
Kawamura, Koreichi; Kawamura, Yoshiko; and Kawamura, Koichi, 3,635,402.
Kawamura, Koreichi; Kawamura, Yoshiko; and Kawamura, Koichi, 3,640,463.
Kawamura, Koreichi; Kawamura, Yoshiko; and Kawamura, Koichi. Water fountain clock. 3,635,402, 1-18-72, Cl. 239-18.
Kawamura, Koreichi; Kawamura, Yoshiko; and Kawamura, Koichi. Form-indicating water fountain. 3,640,463, 2-8-72, Cl. 239-17.
Kawamura, Masao: *See*—
Kasano, Hiroyuki; and Kawamura, Masao, 3,678,302.
Kasano, Hiroyuki; Kurata, Kazuhiro; Ogirima, Masahiko; Kawamura, Masao; and Kusumoto, Hazime, 3,694,759.
Kawamura, Seichi; Arano, Isamu; and Nakajima, Fumito, to Hitachi, Ltd. Sealed type current interrupting device. 3,660,626, 5-2-72, Cl. 200-168.
Kawamura, Shuzo, to Murata Kikai Kabushiki Kaisha and Daiwa Boseki Kabushiki Kaisha. Spool holder. 3,684,207, 8-15-72, Cl. 242-129,500.
Kawamura, Sukeyoshi; Kondo, Kishichiro; Ito, Kenji; Suzuki, Hiroshi; Yasui, Eizo; and Kobayashi, Toshiro, to Toa Gosei Chemical Industry Co., Ltd. Stabilized α -cyanoacrylate adhesive compositions. 3,652,635, 3-28-72, Cl. 260-464.
Kawamura, Susumu; and Yamaguchi, Fumio, to Nippon Electric Glass Company Limited. Glass solder. 3,645,761, 2-29-72, Cl. 106-53.
Kawamura, Takao: *See*—
Takemoto, Takeo; Miyata, Yoshihiko; and Kawamura, Takao, 3,647,960.
Kawamura, Takao, to Hitachi, Ltd. Method of manufacturing fluorescent screens of color picture tubes. 3,689,266, 9-5-72, Cl. 96-36,100.
Kawamura, Takao, to Hitachi, Ltd. Color cathode ray tubes of the shadow mask type. 3,703,655, 11-21-72, Cl. 313-85,00s.
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Kawamura, Tsukasa: *See*—
Honda, Yukio; and Kawamura, Tsukasa, 3,654,605.
Kawamura, Yoshihisa: *See*—
Shimotori, Kazumi; Takagi, Michiyasu; Kawamura, Yoshihisa; and Kiyooka, Shoichi, 3,663,767.
Yagi, Motoi; and Kawamura, Yoshihisa, 3,648,361.
Kawamura, Yoshiko: *See*—
Kawamura, Koreichi; Kawamura, Yoshiko; and Kawamura, Koichi, 3,635,402.
Kawamura, Koreichi; Kawamura, Yoshiko; and Kawamura, Koichi, 3,640,463.

- Kawana, Terunosuke: *See*—
Nagayama, Masuzo; and Kawana, Terunosuke, 3,658,671.
Nagayama, Masuzo; and Kawana, Terunosuke, 3,666,797.
- Kawano, Hideo: *See*—
Hayakawa, Yoshihide; Kawano, Hideo; and Kato, Hirotetu, 3,656,961.
Yamamoto, Nobuo; Nishio, Fumihiko; Yoshida, Masaji; and Kawano, Hideo, 3,656,956.
- Kawano, Shigeru: *See*—
Oishi, Hiroshi; Aoki, Fumio; Kawano, Shigeru; Muramaisu, Hitoshi; and Sacki, Masahiro, 3,696,383.
- Kawano, Shigeyoshi: *See*—
Minami, Tohru; Nishio, Mikio; Toyama, Ichiro; Kawano, Shigeyoshi; Imai, Masumi; Takuma, Yutaka; and Kitanosono, Hidehiro, 3,688,555.
- Kawano, Suminori: *See*—
Tsuchiya, Hiroshi; Kunio, Nishinomiya-Shi; Kimura, Akio; Kawano, Suminori; Fujimoto, Keimei; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Tanaka, Katsutoshi; Ooishi, Tadashi; and Takeda, Hisami, 3,670,057.
- Kawano, Takatsugu: *See*—
Mimura, Akio; Kawano, Takatsugu; and Yamaga, Kanshi, 3,660,278.
- Kawano, Takuo, to Moon Bat Kabushiki Kaisha. Fasteners for attaching clothes to ribs of umbrellas. 3,660,872, 5-9-72, Cl. 24-73.
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Tachikawa, Ryuji; Takagi, Hiromu; Kamioka, Toshiharu; Fukunaga, Mitsunobu; Kawano, Yoichi; and Miyadera, Tetsuo, 3,696,094.
- Kawarada, Kuniyasu: *See*—
Mizushima, Yoshihiko; and Kawarada, Kuniyasu, 3,638,082.
- Kawasaki, Akihiro; Ueda, Hiroaki; and Maruyama, Isao, to Maruzen Petrochemical Co., Ltd. Process for preparing alternating copolymers of butadiene and α -olefin and high molecular weight alternating copolymers. 3,652,518, 3-28-72, Cl. 260-85.3.
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- Kawasaki, Hironobu: *See*—
Fujisaki, Yoshisato; Aishima, Itsuho; Sakurai, Hisaya; Kitaoka, Atsushi; Kawasaki, Hironobu; and Oshima, Minoru, 3,632,670.
- Kawasaki Jukogyo Kabushiki Kaisha: *See*—
Okamoto, Hiroshi; and Okada, Kazuya, 3,704,500.
Sugahara, Takashi; Suzuki, Minoru; Fukunaga, Tadayuki; and Fukushima, Shozo, 3,640,069.
Suizu, Kanichi, 3,682,560.
Terai, Kiyoshi; Itoh, Takashi; and Sagawa, Ryuichi, 3,658,286.
- Kawasaki Jukogyo Kabushiki Kaisha (Kawasaki Heavy Industries, Ltd.): *See*—
Shibata, Fukuo, 3,683,249.
- Kawasaki, Jun; and Uehara, Hiroshi, to Hitachi, Ltd. Dynamic memory system having signal holding device. 3,675,219, 7-4-72, Cl. 340-173.0rc.
- Kawasaki, Meiro; and Higuchi, Shigetaka, to Sony Corporation. Method of making a magnetic powder. 3,702,270, 11-7-72, Cl. 148-105.000.
- Kawasaki, Ryohei: *See*—
Iwamoto, Shunsuke; and Kawasaki, Ryohei, 3,675,195.
- Kawasaki Steel Corporation: *See*—
Hamada, Motoharu; and Nakagawa, Hiroshi, 3,691,055.
Imai, Mitsuo; Shimanaka, Hiroshi; and Irie, Toshio, 3,649,372.
Ishida, Masuo, 3,649,338.
Saito, Tatsuo; Akahide, Kozo; and Ukebe, Teruo, 3,704,358.
Shimanaka, Hiroshi; Irie, Toshio; Tanda, Toshikuni; and Ichi, Tomoyuki, 3,666,568.
- Kawasaki, Tatsuo: *See*—
Kano, Gota; Yokozawa, Masami; Kawasaki, Tatsuo; Fujiwara, Shohei; and Hasegawa, Hiromasa, 3,634,931.
- Kawase, Akira: *See*—
Yamamoto, Hiroshi; Kawase, Akira; and Sakai, Akio, 3,663,108.
- Kawase Bussan Kabushiki Kaisha: *See*—
Yanagisawa, Takeru; and Mega, Yoshikyo, 3,634,152.
- Kawase, Shinji; and Sumitomo, Norishige, to Precision Fukuhara Works, Ltd. Variable needle selecting means for knitting machines. 3,696,640, 10-10-72, Cl. 66-40.000.
- Kawase, Shoji: *See*—
Shimauchi, Shiro; Minemura, Norihiro; Matsui, Takeshi; Ito, Kenji; Shima, Takue; Kawase, Shoji; and Oshima, Masataka, 3,666,403.
- Kawashige, Akira: *See*—
Ohayama, Takashi; Kawashige, Akira; and Miyashita, Takeo, 3,697,991.
- Kawashima, Isao: *See*—
Matsuda, Ryoichi; Kawashima, Isao; and Terai, Masaaki, 3,681,538.
- Kawashima, Katsuhiko, to Mitsubishi Denki Kabushiki Kaisha. Logarithmic amplifier. 3,700,918, 10-24-72, Cl. 307-230.000.
- Kawashima, Kenya: *See*—
Morita, Katsura; and Kawashima, Kenya, 3,679,662.
- Kawashima, Koji: *See*—
Ishikawa, Teruo; Kawashima, Koji; and Togashi, Tetuo, 3,700,846.
- Kawashima, Masao: *See*—
Kiyasu, Zen'iti; Kawashima, Masao; Sasaki, Shunroku; Mineshima, Yukihiko; and Kurita, Shyoichi, 3,699,567.
- Kawashima, Mitsuo: *See*—
Kataoka, Shoji; Tateno, Hiroshi; Fujisada, Hiroyuki; Kawashima, Mitsuo; Komamiya, Yasuo; and Yamada, Hideo, 3,691,481.
- Kawashima, Mitsuo, to Kabushiki Kaisha Daiichi Keisu Seisakusho. Jewelry holding device. 3,660,873, 5-9-72, Cl. 24-81.
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- Kawashima, Suiko: *See*—
Kobayashi, Hidehiko; Sasaguri, Kiichiro; Komoto, Hiroshi; and Kawashima, Suiko, 3,654,225.
- Kawashima, Takeshi: *See*—
Matsumoto, Yoshio; Shirai, Michiko; Saito, Hiroko; Kawashima, Takeshi; and Sakabe, Yuzuru, 3,694,149.
- Kawashima, Toshihide: *See*—
Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar, Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.
- Kikuchi, Masao; Kawashima, Toshihide; Kasahara, Koichi; and Nagayashi, Sancyoshi, 3,636,265.
- Kawashima, Yoshichi, to Nippon Denso Company Limited. Battery charging voltage regulator including safety circuit. 3,668,504, 6-6-72, Cl. 320-64.
- Kawashima, Yoshichi, to Nippondenso Kabushiki Kaisha. Constant effective voltage power source circuit. 3,707,635, 12-26-72, Cl. 307-297.000.
- Kawashima, Yuji: *See*—
Murakami, Masuo; Kawashima, Yuji; Ito, Noriki; and Yano, Kuniichiro, 3,651,063.
- Kawashimo, Kensuke; Tsukagoshi, Kazuo; and Itasaka, Tokio, to Ebara Inflico Kabushiki Kaisha. Method and apparatus for disposing of refuse. 3,707,129, 12-26-72, Cl. 110-15.000.
- Kawasumi, Kenichi: *See*—
Yamane, Mikiya; Saito, Akira; Matsumoto, Katsuyoshi; Kawasumi, Kenichi; Murayama, Kazuo; and Sugiyama, Hiroshi, 3,642,340.
- Kawasumi, Shohachi: *See*—
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, 3,635,924.
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; Yabuuchi, Hiroshi; and Takao, Hiroyoshi, 3,647,753.
Nakaguchi, Kohei; Nishikida, Tomozumi; Kawasumi, Shohachi; Maemoto, Kenichi; Sano, Takezo; Fujii, Yoshikazu; Harada, Koichi; and Ueda, Keiyou, 3,669,945.
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; Yabuuchi, Hiroshi; and Takao, Hiroyoshi, 3,671,492.
Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, 3,700,647.
- Kawasumi, Shohanchi: *See*—
Nakaguchi, Kohei; Kawasumi, Shohanchi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, 3,647,771.
- Kawata, Ryuichi; Kawada, Hiroitsu; Ohmura, Tadayoshi; and Uematsu, Sumio, to Yamanouchi Pharmaceutical Co., Ltd. Method of sugar coating tablets. 3,639,564, 2-1-72, Cl. 424-35.
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- Kawatake, Koichi: *See*—
Yuminaka, Takeo; Iwasaka, Tatsuo Co., Ltd.; Matsuzawa, Hideto; Kawatake, Koichi; and Hirasawa, Kotaro, 3,642,099.
- Kawatetsu Kizai Kogyo Co., Ltd.: *See*—
Murashige, Hidekichi; and Simakura, Masao, 3,637,189.
Murashige, Hidekichi; Simakura, Masao; and Nakazawa, Kazuo, 3,673,734.

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Mase, Takchisa; Kawaura, Hiroshi; Yamaguchi, Terumoto; and Amano, Yosinao, 3,655,142.
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Gustison, Robert A., 3,658,511.
Hoff, Jean C., 3,634,075.
- Kawulka, Paul: *See*—
Mehl, Ernest; Kohut, Michael; and Kawulka, Paul, 3,666,437.
- Kawulski, Henry: *See*—
Ball, Donald H.; and Kawulski, Henry, 3,684,396.
- Kay, Byron L.; and Thurn, Walter H., Jr., to United States of America, Air Force, mesne. Compact high capacity burner for hot air balloons. 3,670,993, 6-20-72, Cl. 244-32.000.
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Lohr, Delmar Frederick, Jr.; Crane, Grant; and Kay, Edward L., 3,673,269.
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- Kay, Edward Leo: *See*—
Beckman, Joseph A.; Hunt, Jerry Donald; and Kay, Edward Leo, 3,649,587.
- Mallan, Jean Margaret; and Kay, Edward Leo, 3,660,433.
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Lilly, Malcolm Douglas; Kay, Garth; Wilson, Richard John Hugh; and Sharp, Alister Kimball, 3,674,767.
- Kay, George; and Efimov, Alexander. Exercising machine with spring-return pedals and pull lines. 3,704,886, 12-5-72, Cl. 272-73.000.
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Brooks, David Hugh; Cox, John Michael; and Kay, Ian Trevor, 3,646,094.
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Caillouette, James C., 3,643,665.
Turner, Charles D., 3,674,134.
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- Kay Manufacturing Corporation: *See*—
Krakauer, C. Leonard, 3,671,031.
Krakauer, Daniel, 3,633,226.
- Kay, Nicholas L.: *See*—
Hass, Robert H.; Helfrey, Paul F.; and Kay, Nicholas L., 3,655,551.
- Kay, Peter Steven: *See*—
Ben, Victor Ralph; and Kay, Peter Steven, 3,667,207.
- Kaya, Ichiro: *See*—
Kasano, Kimiaki; and Kaya, Ichiro, 3,657,000.
Kasano, Kimiaki; and Kaya, Ichiro, 3,705,569.
- Kayamori, Hisashi: *See*—
Torikata, Akio; Kayamori, Hisashi; Mase, Yasuo; Murata, Keijiro; and Maekawa, Reizo, 3,649,458.
- Kayashibara Company: *See*—
Okada, Shigetaka; Tsuyama, Naoto; Kurimoto, Masahi; and Sugimoto, Kaname, 3,703,440.
- Kayashima, Kouzo: *See*—
Miki, Ryoji; Kayashima, Kouzo; and Tsuneo, Uraki, 3,688,200.
- Kayasuga, Yasuaki: *See*—
Endo, Hiroshi; Tokoyoda, Kazuo; Fujiyu, Takemi; Kayasuga, Yasuaki; and Kunii, Tokio, 3,690,911.
- Kayatz, Karl-Heinz, to Claudius, Peters Aktiengesellschaft. Material cooling apparatus. 3,705,460, 12-12-72, Cl. 34-60.000.
- Kaye, George W.; and Shonnard, John R., to Litton Systems, Inc. Stylus assembly for electrically recording of information. 3,673,593, 6-27-72, Cl. 346-74.0es.
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Clune, Richard R.; and Kaye, Gordon E., 3,660,169.
- Kaye, Gordon E., to Mallory, P. R., & Co., Inc. Battery package. 3,661,649, 5-9-72, Cl. 136-132.
- Kaye, Gordon E. Bellow for reserve cell. 3,663,302, 5-16-72, Cl. 136-114.000.
- Kaye, Gordon E., to Mallory, P. R., & Co., Inc. Reserve cell, spring-controlled. 3,669,753, 6-13-72, Cl. 136-114.000.
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- Kaye, Irving: *See*—
Flanagan, Thomas P.; and Kaye, Irving, 3,644,245.
- Kaye, Joseph, & Company: *See*—
Kemper, Clarence A.; Eastman, Richard H.; and Leigh, John H., 3,648,523.
- Kaye, Robert K.: *See*—
Fuller, Roger L.; Kaye, Robert K.; Oliver, Joseph J.; and Rood, William H., 3,646,580.
- Kaye, Saul, to Ventron Corporation. Corrosion inhibition with methylene bis-benzoic acid. 3,705,786, 12-12-72, Cl. 21-2.700.
- Kaye, Seymour M.: *See*—
Lane, George A.; Smith, William Arthur; Dollman, Stephen C.; Kaye, Seymour M.; and Taylor, Francis R., 3,673,013.
Weinssen, John; Carazza, James A.; Hoerter, John; Kaye, Seymour M.; and Weingarten, Garry, 3,645,208.
- Kaye, Seymour M.; and Jackson, Bossie, Jr., to United States of America, Army. Green flare composition. 3,690,972, 9-12-72, Cl. 149-19.000.
- Kayex Corporation: *See*—
Bender, David L.; and Lane, Richard L., 3,678,917.
Snelling, Christopher; and Gardone, Anthony J., 3,643,964.
- Kaylor, Karl Lester: *See*—
Hammell, Kemper Martel; and Kaylor, Karl Lester, 3,665,378.
- Kays, David D., to Aerojet-General Corporation. Multiple effect distillation systems. 3,672,960, 6-27-72, Cl. 203-1.000.
- Kayser, Allan J. Fuel valve locking device. 3,682,267, 8-8-72, Cl. 180-114.000.
- Kayser, Emil J. Method of making pile weatherstripping. 3,677,851, 7-18-72, Cl. 156-73.000.
- Kayser, John P.: *See*—
Wasson, John H.; Sherry, John S.; and Kayser, John P., 3,699,235.
- Kayser, Lutz Tilo. Rocket engine. 3,640,072, 2-8-72, Cl. 60-258.
- Kayserling, Ulrich, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Motorized resilient drive railway truck. 3,661,096, 5-9-72, Cl. 105-117.
- Kaza, Kameswar R.: *See*—
Blomquist, Alfred P.; Kaza, Kameswar R.; and Egrikavuk, Ismail Y., 3,631,744.
- Kazakavage, Joseph R.: *See*—
Wiley, Nathaniel C., Jr.; and Kazakavage, Joseph R., 3,642,168.
- Kazakevich, Igor Illarionovich: *See*—
Tselikov, Alexandr Ivanovich; Grum-Grzhimailo, Nikolai Alexeevich; Verdevsky, Vadim Anatolevich; Vernik, Alexandr Borisovich; Skorupsky, Boris Pavlovich; Kazakevich, Igor Illarionovich; and Kuznetsov, Ivan Vasilievich, 3,661,314.
- Kazakowitz, Barry D.: *See*—
Jupiter, Bernard; and Kazakowitz, Barry D., 3,679,167.
- Kazama, Seizi; and Nakabayashi, Masamitsu, to Takeda Chemical Industries, Ltd. Polyurethane adhesive compositions. 3,663,513, 5-16-72, Cl. 260-75.
- Kazan, Benjamin: *See*—
Barrekette, Euval S.; Baskin, Herbert B.; and Kazan, Benjamin, 3,634,621.
- Kazan, Benjamin, to International Business Machines Corporation. Surface wave signal storage device. 3,662,355, 5-9-72, Cl. 340-173.
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- Kazansky, Vasily Leonidovich: *See*—
Nekrasov, Nikolai Nikolaevich; Blinichikov, Alexandr Lvovich; Kazansky, Vasily Leonidovich; Besedin, Alexandr Fedorovich; Krikunenko, Anatoly Filippovich; Makarov, Egor Maximovich; Zemskov, Alexei Lavrentievich; Afinogenov,

- Frédrikh Ivanovich; Kirichenko, ergei Pavlovich; and Kulikov, Alexei Andreevich, 3,681,003.
 Kazantsev, Evgeny Andreevich: *See—*
 Vishnitsky, Alexandr Lazarevich; Shapiro, Lev Mironovich; Kazantsev, Evgeny Andreevich; Shvartsman, Benjamin Markovich; Shilov, Georgy Petrovich; Nemilov, Evgeny Fedorovich; Baisupov, Izmail Abdulovich; Masterov, Vasily Fomich; and Rummyantsev, Alexandr Steanovich, 3,705,848.
 Kazaoka, Kenichi; and Jindo, Takashi, to Aisin Seiki Company Limited. Door lock mechanism. 3,667,791, 6-6-72, Cl. 292-216.
 Kazarinov, Igor Borisovich: *See—*
 Khripkov, Alexandr Vasilievich; Shenderov, Lev Borukhovich; and Kazarinov, Igor Borisovich, 3,695,334.
 Kazaros, Richard H. Container with tear-type opener. 3,653,585, 4-4-72, Cl. 229-85.
 Kazbekov, Embek Nikolaevich: *See—*
 Bresler, Semen Efimovich; Kazbekov, Embek Nikolaevich; and Fomichev, Viktor Nikolaevich, 3,705,345.
 Kazceef, Michel G., to Pechiney Ugine Kuhlmann. Cooling water chamber for vertical casting frame. 3,682,235, 8-8-72, Cl. 164-283,000.
 Kazeniac, Stanley J.; and Hall, Robert M., to Campbell Soup Company. 2-Alkylthiazoles as tomato product flavor enhancers. 3,660,112, 5-2-72, Cl. 99-100.
 Kazhe, Alexandr Zhanovich: *See—*
 Ioffe, Benjamin Alexandrovich; Mikelson, Artur Eduardovich; Makhlin, Aron Judovich; Lapidus, Mikhail Khaimovich; Salnikov, Jury Nikolaevich; Kazhe, Alexandr Zhanovich; and Trushelisi, Ivan Avgustovich, 3,651,439.
 Kazienko, Henry Joseph; and Palmer, Walter Madison, to Johns-Manville Corporation. Pipe joint. 3,684,317, 8-15-72, Cl. 285-110,000.
 Kazlauskas, Gasparas: *See—*
 Vilkas, Eugene P.; and Kazlauskas, Gasparas, 3,702,915.
 Kazluaskas, Gasparas; and Gedgaudas, Mindaugas E., to Astro-Arc Company. Welding head supporting apparatus. 3,702,913, 11-14-72, Cl. 219-60,00a.
 Kazmarek, Edward, to Lear Siegler, Inc. Compact servo actuator. 3,665,278, 5-23-72, Cl. 318-466.
 Kazmierski, Elias A.: *See—*
 Coulter, Earl E.; Hemker, Fritz L.; and Kazmierski, Elias A., 3,689,045.
 Kazmierski, John, Jr., to Johns-Manville Corporation. Fluid flow deflecting baffle for expansion joints in fluid conduits. 3,633,946, 1-11-72, Cl. 285-229.
 Kazmina, Natalia Borisovna: *See—*
 Knunians, Ivan Ljudvigovich; German, Lev Solomonovich; and Kazmina, Natalia Borisovna, 3,682,917.
 Kaznoff, Alexis I.: *See—*
 Hill, Howard W.; Kaznoff, Alexis I.; and Marlowe, Mickey O., 3,679,596.
 Kazuhiko, Asai; and Kazuo, Makabe, to Daiichi Yakuhin Sangyo Kabushiki Kaisha. Bis-carboxyethyl germanium sesquioxide and process for preparing same. 3,689,516, 9-5-72, Cl. 260-429,00r.
 Kazuo, Makabe: *See—*
 Kazuhiko, Asai; and Kazuo, Makabe, 3,689,516.
 Kazuo Oi: *See—*
 Oi, Kazuo; and Negishi, Katuo, 3,667,600.
 Kazushige, Hirasawa: *See—*
 Oku, Takeshi; Kazushige, Hirasawa; and Yoshimitsu, Matsumoto, 3,692,973.
 Kcinep & Drof, Inc., mesne: *See—*
 Hjermstad, Erling T., 3,706,731.
 K.D.G. Instruments Limited: *See—*
 Starke, Hans, 3,640,478.
 KDI Corporation: *See—*
 Gaddy, Oscar L.; Holonyak, Nick, Jr.; Sirkis, Murray D.; and Baird, Jack R., 3,636,255.
 Secker, Philip E.; and Hughes, John F., 3,636,388.
 Secker, Philip E., 3,654,501.
 KDI Halex Incorporated, mesne: *See—*
 Flagg, Robert F., 3,634,758.
 KDI Sealtron Corporation: *See—*
 Newman, Albert P., 3,662,296.
 KDI Sealtron Corporation, mesne: *See—*
 Newman, Albert P., 3,681,742.
 KDI-Bauer Corporation: *See—*
 Bauer, Russell E., 3,674,380.
 KDI-Bauer Corporation, mesne: *See—*
 Bauer, Russell E., 3,646,645.
 Ke General Corporation: *See—*
 Maguire, Edward T., 3,636,551.
 Keating, Warren W.; and Ligi, Joseph J., to Dow Chemical Company. The. Catalytic process for the preparation of phenox-ybenzoates, phenyl ethers and derivatives thereof. 3,637,807, 1-25-72, Cl. 260-473.
 Keady, Frederick D.; and Wellman, Ellis M. Combination brake warning switch and proportioning valve. 3,672,728, 6-27-72, Cl. 303-6,00c.
 Keady, Frederick D., to Weatherhead Company, The. Brake warning switch with bypass. 3,698,771, 10-17-72, Cl. 303-6,00c.
 Kealy, Wellesley Ashe, to United Kingdom Atomic Energy Authority. Digital actuators. 3,697,979, 10-10-72, Cl. 340-347,0da.
 Kean, Chester E.: *See—*
 Schwer, Frederick W.; and Kean, Chester E., 3,655,442.
 Keane, Peter J.: *See—*
 Muse, George H.; and Keane, Peter J., 3,639,980.
 Keane, William J.: *See—*
 Barthold, Roy R.; Keane, William J.; and Miller, Lawrence F., 3,662,261.
 Kear, Bernard H.: *See—*
 Copley, Stephen M.; Giamci, Anthony F.; Hornbecker, Merton F.; and Kear, Bernard H., 3,690,368.
 Kear, Robert W.: *See—*
 Bagge, Leonard P.; and Kear, Robert W., 3,663,153.
 Kearby, Kenneth K., to Esso Research and Engineering Company. Metal halide containing zeolites and method for their preparation. 3,644,220, 2-22-72, Cl. 252-442.
 Kearfott, Arman L., to General Motors Corporation. Gear testing device. 3,680,373, 8-1-72, Cl. 73-162,000.
 Kearley, Robert A., to PPG Industries, Inc. Separation of potassium phosphate and alumina. 3,647,370, 3-7-72, Cl. 23-107.
 Kearman, James E., to Stauffer Chemical Company. Curing system for polymeric rubber materials. 3,635,903, 1-18-72, Cl. 260-79.5.
 Kearman, James Edward; and Newsbaum, Robert William, to Stauffer Chemical Company. Uniformly dispersible insoluble sulfur vulcanizing compositions. 3,706,708, 12-19-72, Cl. 260-79,500.
 Kearney & Trecker Corporation: *See—*
 Brainard, Wallace E.; and Sipek, Charles B., 3,661,463.
 Sedgwick, Robert K.; Behrendt, Werner K.; and Baechle, Hans J., 3,704,510.
 Zankl, Frank, 3,673,918.
 Zankl, Frank; and Lohnes, Earl R., 3,674,323.
 Kearney, Joseph P.: *See—*
 Retzer, Theodore C.; and Kearney, Joseph P., 3,706,000.
 Kearney-National Inc.: *See—*
 Ball, Robert D., 3,668,614.
 Walbrun, Carl J.; and Hanke, Kenneth Earl, 3,668,351.
 Kearns, Michael I. Steam generating apparatus. 3,696,794, 10-10-72, Cl. 122-235,00r.
 Kearns, Thomas M., to Mohawk Data Sciences Corporation. Printer and control circuit therefor. 3,633,496, 1-11-72, Cl. 101-93.
 Kearns, Tommy Carter; and Kim, Yang Joo. Ammonium polyphosphate manufacture. 3,695,835, 10-3-72, Cl. 423-310,000.
 Keast, Russell R.: *See—*
 Keay, Robert E.; and Keast-Russell R., 3,634,261.
 Keathley, Donald P.: *See—*
 Lee, John T. M.; and Keathley, Donald P., 3,661,004.
 Keating, James J., to Kiewit, Peter, Sons' Co. Submarine rock placing traveler. 3,688,510, 9-5-72, Cl. 61-63,000.
 Keating, John M., to Western Electric Company, Incorporated. Method for selectively coating articles. 3,667,989, 6-6-72, Cl. 117-38,000.
 Keating, Raymond J.: *See—*
 Moore, Lowell B.; Keating, Raymond J.; and Underwood, Warren, 3,700,387.
 Rousseau, Roy S.; Keating, Raymond J.; and Steinke, Gary L., 3,664,085.
 Keating, Richard T. Filter for deep fryer. 3,646,882, 3-7-72, Cl. 99-408.
 Keating, Thomas J.: *See—*
 Caldwell, James M.; Day, William R.; and Keating, Thomas J., 3,689,830.
 Keatinge, Gerald R., to Sperry Rand Corporation. Remotely controlled unmanned submersible vehicle. 3,635,183, 1-18-72, Cl. 114-16.
 Keaton, Michael John: *See—*
 Vermuelen, Theodore; and Keaton, Michael John, 3,684,699.
 Keats, John B., to Borg-Warner Corporation. Water jetted piling. 3,636,718, 1-25-72, Cl. 61-53,74.
 Keaveney, William P.: *See—*
 Pappas, James J.; and Keaveney, William P., 3,637,721.
 Keaveney, William P.; and Pappas, James J., to Inmont Corporation. Process of preparing glyoxal. 3,637,860, 1-25-72, Cl. 260-604.
 Keay, Frederick W.: *See—*
 South, William H.; and Keay, Frederick W., 3,652,920.
 Keay, Robert E.: *See—*
 Castrantas, Harry M.; Keay, Robert E.; and MacKellar, Donald G., 3,677,955.
 Keay, Robert E.; and Keast, Russell R., to FMC Corporation. Sanitizing presoak compositions. 3,634,261, 1-11-72, Cl. 252-99.
 Keay, Robert E.; Castrantas, Harry M.; and MacKellar, Donald G., to FMC Corporation. Dry cleaning with hydrogen peroxide. 3,635,667, 1-18-72, Cl. 8-142.
 Keberle, Heinrich; Faigle, Johann Werner; and Wilhelm, Max, to Ciba Corporation. (Para-halo-phenyl)-glutaric acid imides. 3,634,428, 1-11-72, Cl. 260-281.
 Keberle, Wolfgang: *See—*

- Honig, Hans Ludwig; Balle, Gerhard; Keberle, Wolfgang; and Dieterich, Dieter, 3,705,164.
 Keberle, Wolfgang; and Gobel, Wilhelm, to Farbenfabriken Bayer Aktiengesellschaft. Production of homogeneous, thermoplastics, and highly elastic plastics from vinyl chloride polymers and polyurethanes. 3,637,553, 1-25-72, Cl. 260-23.
 Keberle, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of chloroalkane sulphonyl chlorides. 3,641,140, 2-8-72, Cl. 260-543.
 Keberle, Wolfgang; Striegler, Hellmut; and Weber, Karl-Arnold, to Farbenfabriken Bayer Aktiengesellschaft. Heat sealing textile sheets with polyurethane heat sealing adhesives. 3,684,639, 8-15-72, Cl. 161-87,000.
 Keberle, Wolfgang; Hornig, Heinz; and Sinn, Gustav, to Farbenfabriken Bayer Aktiengesellschaft. Production of elastic polyurethane filaments. 3,686,387, 8-22-72, Cl. 264-184,000.
 Keblyis, Kestutis A.; and Shubkin, Ronald L., to Ethyl Corporation. Hydrocarboxylation process. 3,694,502, 9-26-72, Cl. 260-533,00a.
 Keck, Dieter: *See—*
 Schafer, Karl; and Keck, Dieter, 3,656,635.
 Keck, Dieter, to Keller, C., and Co. Apparatus for the removal of clay web wastes in a clay-shaping machine. 3,646,842, 3-7-72, Cl. 83-104.
 Keck, Dieter, to C. Keller u. Co. Equipment for forming a stack of bricks or other articles and for interleaving successive layers with thermoplastic film material. 3,664,089, 5-23-72, Cl. 53-199.
 Keck, Harley B.: *See—*
 Andler, Richard C.; and Keck, Harley B., 3,679,518.
 Keck, Johannes: *See—*
 Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfrid, 3,661,903.
 Keck, Karl M. Safety razor with blade aligning means. 3,680,211, 8-1-72, Cl. 30-75,000.
 Keck, Max H., to Goodyear Tire & Rubber Company, The. Cationically dyeable polyester. 3,649,571, 3-14-72, Cl. 260-22.
 Keckler, Norman F., to Firestone Tire & Rubber Company, The. Process of separating microgel from rubber polymers. 3,635,932, 1-18-72, Cl. 260-94.7.
 Keddeinis, Heinrich; Lenz, Arnold; Bleh, Otto; and Termin, Erich, to Dynamit Nobel Aktiengesellschaft. Silica gel-containing magnesia insulating composition. 3,682,828, 8-8-72, Cl. 252-63,200.
 Keddie, Ian: *See—*
 Macphail, Alexander C. B.; and Keddie, Ian, 3,642,630.
 Kedzior, Andrzej; Horosko, Jan; Olszowski, Tadeusz; Romaniec, Edward; and Zaremba, Stanislaw, to Przedsiębiorstwo Projektowania i Wyposazania Odlewni Prodlow-Oddzial "PRODLW Oddzial. Method of continuous and controlled preparation of the liquid self-harening moulding sand and the installation for its application. 3,682,448, 8-8-72, Cl. 259-148,000.
 Kee, Inc., mesne: *See—*
 McKay, Ian Guy, 3,634,950.
 Keeble, John; and Morgan, Edward Ieian, to Littlejohn, Sidney R., & Company Limited. Reproduction camera. 3,666,366, 5-30-72, Cl. 355-56.
 Keefe, George E.: *See—*
 Almasi, George S.; Chang, Hsu; Keefe, George E.; and Thompson, David A., 3,691,540.
 Chang, Hsu; Keefe, George E.; Lin, Yeong S.; and Rosier, Laurence L., 3,689,902.
 Keefe, Thomas R.: *See—*
 Hahn, Robert S.; and Keefe, Thomas R., 3,640,138.
 Keefer, Dayle: *See—*
 Adam, Robert; and Keefer, Dayle, 3,673,694.
 Keefer, Richard D.; and Wyman, John S., Jr., to Bendix Corporation, The, mesne. Gas sampling device. 3,654,801, 4-11-72, Cl. 73-28.
 Keefer, Richard K.; and Samorian, James L. Electric brusher. 3,661,018, 5-9-72, Cl. 74-22.
 Keefer, Richard Mackay, to Electrocell Limited, mesne. Redox fuel cell regenerated with sugar. 3,682,704, 8-8-72, Cl. 136-86,00r.
 Keegan, Barclay: *See—*
 Jump, Peter Alexander Edward; and Keegan, Barclay, 3,697,261.
 Keegan, Robert R.: *See—*
 Graham, Walton; and Keegan, Robert R., 3,680,122.
 Keehan, Donald J. Method for producing a reinforced resinous impeller and product. 3,670,382, 6-20-72, Cl. 29-156,8cf.
 Keehn, George R.: *See—*
 Apstein, Maurice; Blomgren, Evert; Keehn, George R.; Andrews, Laurence M.; and Rabinow, Jacob, 3,698,323.
 Keelavite Hydraulics Limited: *See—*
 Grime, Frank L.; and Downs, Arthur, 3,687,465.
 Lee, Norman; and Levetus, Francis Benjamin, 3,650,335.
 Keeler Brass Company: *See—*
 Bocade, Emil J., 3,635,278.
 Jakeway, Gerald V., 3,658,619.
 Keeler, Miner S., II, 3,674,229.
 Keeler, Miner S., II; and Watt, William Doyle, Jr., 3,694,017.
 Nieboer, Keith A., 3,648,592.
 Van Ryn, Edwin; and Driesenga, Edwin J., 3,673,634.
 Keeler, Jack D.; and Fagan, Edmund I. Overchute feed apparatus for rotary printing machine. 3,635,159, 1-18-72, Cl. 101-232.
 Keeler, James H., Jr.: *See—*
 Farnsworth, Richard G.; and Keeler, James H., Jr., 3,662,368.
 Keeler, Larry G.: *See—*
 Gentry, Charles B.; Scanlon, Robert M.; Rumery, Jerome; McDonald, Howard L.; and Keeler, Larry G., 3,668,910.
 Keeler, Miner S., II, to Keeler Brass Company. Shelving supports. 3,674,229, 7-4-72, Cl. 248-188,000.
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 Dupnock, Andrew; Gorey, Edward F.; and Keenan, William A., 3,676,775.
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 Baranowski, Leslie B., 3,675,395.
 Kruger, Michael H., 3,699,872.
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 Keeney, Lawrence V.: *See—*
 Viola, Ronald J.; and Keeney, Lawrence V., 3,703,621.
 Keenon, Delbert L.: *See—*
 Jones, Jerry J.; Keenon, Delbert L.; Morgan, William A.; and Lochridge, Joe C., 3,668,878.
 Keere, Walter P.: *See—*
 Pittman, Robert B.; and Keere, Walter P., 3,639,888.
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 Schaefer, George J., Jr., 3,664,367.
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Byers, Larry Joe; and Keeth, James Maurice, 3,652,938.
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Petersen, Povl Viggo; and Ammitzboll, Thorkil, 3,681,346.
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Reichelt, Bernhard; Lippert, Wolfgang; Zollner, Dieter; and Kegel, Kurt, 3,684,745.
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Ladin, Eli M.; Kegerise, Harry L.; and Adams, John S., 3,674,357.
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Soderquist, Frederick J.; Kehde, Howard; and Martz, Lyle E., 3,652,699.
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Gilliam, Kenneth D.; and Kehe, Alfred W., 3,650,809.
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Schell, Raymond A.; and Kehoe, Lawrence J., 3,674,889.
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Podell, Howard I.; and Kehoe, Stephen J., 3,693,389.
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Lambert, James H., 3,638,486.
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Dornfeld, Eberhard R.; Hennecke, Rudolf R. G.; and Kehrberger, Achim L., 3,642,078.
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Ehrhardt, Klaus; Geiger, Georg; and Kehrer, Fritz, 3,660,375.
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Fader, John H.; Keijzer, Johan H.; and Graulus, Marcel J. R., 3,687,480.
- Fader, John H.; Keijzer, Johan H.; and Graulus, Marcel Josef Roger, 3,700,225.
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Hoyer, Hans; Keil, Gunter; and Happe, Wilhelm, 3,655,844.
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Diedrich, Bernd; and Keil, Karl Diether, 3,644,318.
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Breston, Michael P.; and Keilberg, Ray D., 3,670,514.
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Bauer, Ronald; Chung, Harold; Cannell, Lawrence George; Keim, Wilhelm; and Van Zwet, Henry, 3,637,636.
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- Chung, Harold; and Keim, Wilhelm, 3,636,162.
- Dewhurst, Kenneth C.; Keim, Wilhelm; and Thyret, Helmut E., 3,652,614.
- Glockner, Peter W.; Keim, Wilhelm; and Mason, Ronald F., 3,647,914.
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- Van Zwet, Henry; Bauer, Ronald S.; and Keim, Wilhelm, 3,644,564.
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Katzenfurt, Karl Clos; and Keiner, Fritz, 3,701,307.
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Hallman, Russell H.; Keir, John B.; and Patriotto, Lawrence J., 3,650,425.
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Dalson, Milton H.; Gallagher, James P.; Keith, Carl D.; and Pfefferle, William C., 3,679,578.
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Roberts, John D.; Ellenberg, John D.; and Keith, Charles H., 3,656,484.
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Solomon, Irvine J.; Keith, James N.; and Kacmarek, Andrew J., 3,634,483.
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Faust, Eberhard O.; and Keith, Klaus, 3,650,561.
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Meeks, Walter Melvin, 3,650,570.
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Cath, Pieter G.; and Kapfish, Maurice S., 3,654,560.
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Voroschay, Lajos; Thuranszky, Karoly; and Kekes-Szabo, Andras, 3,662,074.
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Loo, Madis Valdurevich; Sillaots, Argo Alexandrovich; and Kekher, Jury-Eduard Khansovich, 3,651,543.
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Edlin, Ray L., 3,694,236.
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- Schweiger, Richard G., 3,637,520.
- Schweiger, Richard G., 3,639,665.
- Wintersdorff, Peter, 3,676,157.

Keldmann, Erik: *See*—
Jensen, Jorgen Bent; Jensen, Borge; Krohn, Rasmus; and Keldmann, Erik, 3,700,853.
Keldrauk, Walter. Fluid power unit. 3,679,334, 7-25-72, Cl. 418-142,000.
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Kelemen, Denis G., to Du Pont de Nemours, E. I., and Company. Metalizing composition including degassed platinum powders. 3,674,515, 7-4-72, Cl. 106-1,000.
Kelemen, Gyorgy: *See*—
Guezoghy, Lajos; Puklies, Maria; Kelemen, Gyorgy; and Leszkovsky, Gyorgy, 3,639,415.
Kelemeneky, Monroe R.: *See*—
Scott, Harold W.; and Kelemeneky, Monroe R., 3,631,595.
Kelker, Kans: *See*—
Scheurle, Bruno; and Kelker, Kans, 3,689,525.
Kelkheim, Taurus: *See*—
Radscheit, Kurt; Kelkheim, Taurus; Stache, Ulrich; Haede, Werner; Hofheim, Taurus; Fritsch, Werner; Neuenhain, Taurus; and Lindner, Ernst, 3,681,344.
Radscheit, Kurt; Kelkheim, Taurus; Fritsch, Werner; Neuenhain, Taurus; Haede, Werner; Stache, Ulrich; Hofheim, Taurus; and Lindner, Ernst, 3,682,891.
Kell, Robert Christopher; Rendle, David Forbes; and Riches, Eric Edward, to General Electric Company Limited; formerly General Electric and English Companies Limited. Microwave devices. 3,696,314, 10-3-72, Cl. 333-73,000.
Kellar, Arnold Arbuthnot, to Union Carbide Corporation. Electrode joint cement. 3,657,592, 4-18-72, Cl. 313-357.
Kellar, James S., to Universal Oil Products Company. Conversion of ethylbenzene to styrene. 3,702,346, 11-7-72, Cl. 260-669,000.
Kellar, Richard L.: *See*—
Paelian, Owen; Rister, Donald R.; and Kellar, Richard L., 3,706,349.
Kellard, Juliet. Needle feed mechanism for sewing machines. 3,682,120, 8-8-72, Cl. 112-218,000.
Kelleher, John J., Jr., to Raytheon Company. Pulse generator with storage means to maintain output transition in saturation after removal of trigger pulse. 3,639,784, 2-1-72, Cl. 307-260.
Kelleher, Kenneth S.: *See*—
Barron, Roger L.; Kelleher, Kenneth S.; and Vieth, George C., Jr., 3,680,126.
Kelleher, Thomas E. Press brake gauge. 3,702,502, 11-14-72, Cl. 33-185,000.
Kellenbenz, Carl W., to United States of America, Navy. Direct current solid state circuit breaker. 3,668,483, 6-6-72, Cl. 317-33,000.
Keller & Knappich GmbH: *See*—
Jahnert, Fritz; and Schollhorn, Martin, 3,643,283.
Kaus, Johann, 3,691,648.
Keller, Albert Kent: *See*—
Larsen, Eric R.; Keller, Albert Kent; and Plepys, Raymond A., 3,674,664.
Keller, Allen B.: *See*—
Ward, John T.; and Keller, Allen B., 3,675,614.
Keller, Anthony T., to Robertshaw Controls Company. Method and apparatus for welding bellows constructions and the like. 3,666,161, 5-30-72, Cl. 228-12.
Keller, Arthur E.; and Earles, Claude W. Vehicle speed regulation, control means, and warning system. 3,686,628, 8-22-72, Cl. 340-53,000.
Keller, Arthur H.: *See*—
Scarnato, Thomas J.; Adams, James R.; Keller, Arthur H.; and Peacock, Peter J., 3,637,237.
Keller, Arthur H., to International Harvester Company. Rake tooth mounting. 3,664,107, 5-23-72, Cl. 56-400,000.
Keller Brass Company: *See*—
Watt, William Doyle, Jr., 3,634,907.
Keller, C.: *See*—
Wieligmann, Friedrich, 3,673,703.
Keller C., & Co.: *See*—
Kamphues, Hermann; and Rosengarten, Hans-Jurgen, 3,667,622.
Keller, C., and Co.: *See*—
Keck, Dieter, 3,646,842.
Keller, Carol K.; Royka, Stephen F.; and Snelling, Christopher, to Xerox Corporation. Photoelectrophoretic imaging process wherein the imaging electrical field is applied subsequent to imagewise exposure. 3,647,659, 3-7-72, Cl. 204-181.
Keller, Charles H., to Pek, Inc., mesne. Method and apparatus for contact printing. 3,694,081, 9-26-72, Cl. 355-91,000.
Keller, Donald K.: *See*—
Barello, Joseph G.; Keller, Donald K.; and Rish, Anthony S., 3,632,168.
Keller, Donald L.: *See*—

Chubb, Walston; Keller, Donald L.; Wullaert, Richard A.; and Storhok, Victor, 3,661,709.
Keller, Emil C.; and Spokes, Raymond E., to Abex Corporation. Friction elements. 3,673,276, 6-27-72, Cl. 260-38,000.
Keller, Ernest, to Jutzu, Louis. Apparatus for barbecuing food. 3,646,878, 3-7-72, Cl. 99-339.
Keller, Ernst: *See*—
Peterli, Hans Jakob; Keller, Ernst; and Schwarzenbach, Kurt, 3,665,031.
Keller, George C.: *See*—
Edmonston, Robert P.; Lefforge, John W.; and Keller, George C., 3,695,477.
Keller, Gunter; Knauff, Gunter; Skuin, Petar; and Vogt, Edwin, to International Business Machines Corporation. Arithmetic and logical unit with error checking. 3,649,817, 3-14-72, Cl. 235-153.
Keller, Hans: *See*—
Taudt, Heinz; and Keller, Hans, 3,657,472.
Keller, Hans, to Hell, Rudolf, Dr.-Ing. Method of reproducing polychromatic picture originals. 3,651,249, 3-21-72, Cl. 178-54.
Keller, Hans, to ITT Industries, Inc. Monolithic integrable flip flop circuit. 3,678,300, 7-18-72, Cl. 307-288,000.
Keller, Hans, to ITT Industries, Inc. Method of amplitude control of electromechanical oscillators. 3,701,052, 10-24-72, Cl. 331-116,000.
Keller, Hans; and Sauer, Wolfgang, to ITT Industries, Inc. A stable multivibrator containing two complimentary transistors. 3,705,362, 12-5-72, Cl. 331-111,000.
Keller, Harold A.; and Young, Patrick J., to Potlatch Forests, Inc. Method for automatically laying up plywood panels. 3,666,592, 5-30-72, Cl. 156-285,000.
Keller, Harold A.; and Young, Patrick J., to Potlatch Forests, Inc. Apparatus for automatically laying up plywood panels. 3,681,174, 8-1-72, Cl. 156-559,000.
Keller, Heinz; and Grossmann, Hans, to Durand & Huguenin A.G. Water-soluble cationic naphthoquinone-imine dyestuffs containing a quaternary ammonium group. 3,649,654, 3-14-72, Cl. 260-396.
Keller, Helmut; Rottmann, Franz; Zickler, Helmut; and Klauke, Dieter, to Fichtel & Sachs A.G. Rotor for a rotary internal combustion engine. 3,652,190, 3-28-72, Cl. 418-54.
Keller, Horst; and Hahn, Gunter, to Messer Griesheim G.m.b.H. Welding control. 3,639,723, 2-1-72, Cl. 219-131.
Keller, James P.: *See*—
Buntin, Robert R.; Harding, John W.; Keller, James P.; and Murdock, Vollic L., 3,684,415.
Keller, James R., to Baldwin Tool, Inc. Shelf bracket structure. 3,672,624, 6-27-72, Cl. 248-243,000.
Keller, Jean-Paul; and Graf, Stefano A., to RCA Corporation. AC line operation of monolithic circuit. 3,649,887, 3-14-72, Cl. 317-235.
Keller, John C.: *See*—
Green, Nathan; and Keller, John C., 3,702,358.
Keller, John E.: *See*—
Spross, Frank B.; and Keller, John E., 3,694,342.
Keller, Joseph D.; and Osborne, Solomon C., to Martin-Marietta Corporation. Side hole terminal. 3,665,367, 5-23-72, Cl. 339-275.
Keller, Joseph H., Jr.; and Sterner, Russell L., to Grove Manufacturing Company. Mounting assembly for installation of hydraulic jacks on outrigger. 3,677,417, 7-18-72, Cl. 212-145,000.
Keller, Joseph H., Jr.; and Sterner, Russell L., to Kidde, Walter, & Company, Inc. Hydraulic outrigger jack with screw lock. 3,702,181, 11-7-72, Cl. 254-86,000.
Keller, Joseph Richard: *See*—
Rueger, Herman; and Keller, Joseph Richard, 3,699,651.
Keller, Joseph Richard; and Pritulsky, James, to AMP Incorporated. Multiple light transmission from a single light source. 3,638,008, 1-25-72, Cl. 240-1.
Keller, Joseph Richard; and Pritulsky, James, to AMP Domestic Inc. Terminal member for light transmitting means. 3,705,756, 12-12-72, Cl. 350-96,000.
Keller, Juergen H. H.; and Sprague, Robert Hicks, to Ittek Corporation. Dye-sensitized photosensitive materials having improved photographic speed. 3,666,464, 5-30-72, Cl. 96-48,000.
Keller, Karlheinz: *See*—
Mollet, Hans; Hohenegger, Helmut; Keller, Karlheinz; and Keller, Rudolf, 3,637,340.
Keller Manufacturing Co., Inc.: *See*—
Keller, William A., 3,673,893.
Keller, Michael I.: *See*—
Keller, Michael I.; and Gardner, Dayne G. (said Gardner assor. to said), 3,641,276.
Keller, Michael I.; and Gardner, Dayne G., said Gardner assor. to said Keller, Michael I. Automatic electronic paging system. 3,641,276, 2-8-72, Cl. 179-18.
Keller, Miner S., II. Cryogenic fuse. 3,684,923, 8-15-72, Cl. 317-13,000.
Keller, Oscar: *See*—
Batcho, Andrew David; Berger, Julius; Furlenmeier, Andre; Keller, Oscar; Pecherer, Benjamin; Schocher, Arno Johannes; Spiegelberg, Hans; and Vaterlaus, Bruno Peter, 3,706,729.
Keller, Robert Christian: *See*—
Baumann, Hans-Peter; and Keller, Robert Christian, 3,706,530.

Keller, Robert H., to Owens-Illinois, Inc. Glass gob shaping and delivering means. 3,672,860, 6-27-72, Cl. 65-208,000.
Keller, Robert-Christian: *See*—
Baumann, Hans-Peter; and Keller, Robert-Christian, 3,691,204.
Keller, Ronald F.: *See*—
Fuller, Frank I.; Fox, Shirl S.; and Keller, Ronald F., 3,636,633.
Keller, Ronald F., to Fiber-Optics, Inc. Dental apparatus utilizing fiber optics. 3,638,013, 1-25-72, Cl. 41-15.
Keller, Rudolf: *See*—
Bindler, Jakob; and Keller, Rudolf, 3,684,426.
Mollet, Hans; Hohenegger, Helmut; Keller, Karlheinz; and Keller, Rudolf, 3,637,340.
Wegmuller, Hans; Kleemann, Alois; and Keller, Rudolf, 3,669,608.
Wegmuller, Hans E.; Kleemann, Alois; and Keller, Rudolf, 3,690,916.
Keller, Sherman R.: *See*—
Blair, George R.; and Keller, Sherman R., 3,679,559.
Keller, Siegfried, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Anti-slip device for compressed air brakes, particularly for rail vehicles. 3,655,246, 4-11-72, Cl. 303-21.
Keller, Thomas C.; and Heggy, Robert F., to Timken Company, The. Bearing housing. 3,672,735, 6-27-72, Cl. 308-180,000.
Keller, Thomas Charles, to Timken Company, The. Unitized seal assembly. 3,685,841, 8-22-72, Cl. 227-37,000.
Keller, Urs Martin: *See*—
Forster, Willy; Henrard, Armand; Kehrner, Fritz; Keller, Urs Martin; and Wasem, Hans, 3,671,514.
Keller, Walter: *See*—
Zachner, Hans; and Keller, Walter, 3,636,198.
Keller, Werner, to Siemens Aktiengesellschaft. Contact-free potentiometer. 3,676,819, 7-11-72, Cl. 338-32,000.
Keller, Wilhelm; Kallenowski, Peter; and Schmidt, Peter, said Keller, Wilhelm assor. to said Kallenowski, Peter. Device for producing hollow articles from thermoplastic synthetic material. 3,669,603, 6-13-72, Cl. 425-326.
Keller, William A., to Keller Manufacturing Co., Inc. Method of making rake tine support. 3,673,893, 7-4-72, Cl. 76-111,000.
Keller, William Fredrick; and Domyan, Frank Francis, to International Telephone and Telegraph Corporation. Adjustable dash pot and actuating means therefor. 3,656,592, 4-18-72, Cl. 188-270.
Keller, William Fredrick; and Domyan, Frank Francis, to International Telephone and Telegraph Corporation. Hydraulic control system. 3,675,538, 7-11-72, Cl. 91-1,000.
Keller, Wolfgang: *See*—
Emeis, Reimer; Haus, Joachim; and Keller, Wolfgang, 3,650,700.
Longo, Hans-Eberhard; Keller, Wolfgang; and Vogel, Carl-Heinz, 3,655,345.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Method and device for crucible-free zone melting a crystalline rod. 3,644,151, 2-22-72, Cl. 148-16.
Keller, Wolfgang, to Siemens-Schuckertwerke Aktiengesellschaft. Apparatus for crucible-free zone melting of crystalline materials. 3,649,210, 3-14-72, Cl. 23-273.
Keller, Wolfgang; and Berger, Gunther, to Siemens Aktiengesellschaft. Method of crucible-free zone melting crystalline rods, especially of semiconductor material. 3,658,598, 4-25-72, Cl. 148-16.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Apparatus for crucible-free zone melting of crystalline rods. 3,660,044, 5-2-72, Cl. 23-273.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Method for crucible-free floating zone melting a crystalline rod, especially of semicrystalline material. 3,660,062, 5-2-72, Cl. 65-32.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Device for crucible-free, floating zone melting a crystalline rod. 3,671,703, 6-20-72, Cl. 219-10,750.
Keller, Wolfgang; and Reuschel, Konrad, to Siemens Aktiengesellschaft. Method for crucible-free zone melting using a displaced heater. 3,685,973, 8-22-72, Cl. 23-301,000.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Device for crucible-free, floating-zone melting a crystalline member. 3,688,006, 8-29-72, Cl. 13-1,000.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Method for floating zone melting. 3,705,789, 12-12-72, Cl. 23-301,000.
Keller-Volper, Ernest. Insertable cylinder for a door lock. 3,698,216, 10-17-72, Cl. 70-380,000.
Kellerman, David. Wound resistor arrangement. 3,648,218, 3-7-72, Cl. 338-160.
Kellert, Paul H. Modular building construction and method. 3,676,973, 7-18-72, Cl. 52-262,000.
Kellett, Eric, to C.A.V. Limited. Boiler systems. 3,633,521, 1-11-72, Cl. 110-104.
Kellett, Eric, to C.A.V. Limited. Rotor assemblies. 3,666,302, 5-30-72, Cl. 287-53,000.
Kelley, Archie P., to Talley Industries, Inc. Boost starter system. 3,633,360, 1-11-72, Cl. 60-39,14.
Kelley, Arnold E.; and Wood, Frederick C., to Union Oil Company of California. Dual-catalyst hydrofining process. 3,644,197, 2-22-72, Cl. 208-89.
Kelley, Bernard B., 1/2 to Vergeer, Joseph and 1/2 to Paramatic Corporation. Cold wax process for forming candles. 3,689,616, 9-5-72, Cl. 264-68,000.
Kelley, Buster E.: *See*—
Welford, Gordon D.; and Kelley, Buster E., 3,706,429.
Kelley, C. K., & Sons, Inc.: *See*—
Kelley, Donald G., 3,642,232.
Kelley, William E., 3,667,702.
Kelley Company, Inc.: *See*—
Bregantini, Robert R., 3,656,199.
Hazlewood, John F.; and Ruehl, Herbert T., 3,664,075.
Potter, Roderick B., 3,646,627.
Potter, Roderick B., 3,696,240.
Smith, Matthew, 3,665,538.
Kelley, Donald G., to Kelley, C. K., & Sons, Inc. End-opening carrier for pneumatic tube system. 3,642,232, 2-15-72, Cl. 243-35.
Kelley, Edward, Corporation, mesne: *See*—
Carter, William R.; Slaybaugh, Charles Jay; and Hodgins, Patrick M., 3,640,420.
Kelley, Fred W., Jr.: *See*—
Keiles, Yoel; Kelley, Fred W., Jr.; and Lezan, Georges R. E., 3,665,293.
Kelley, Fred W., Jr.; and Lezan, Georges R. E., to General Electric Company. Thyristor state sensor. 3,654,541, 4-4-72, Cl. 321-13.
Kelley, Fred W., Jr., to General Electric Company. Means for damping voltage oscillations in solid-state switching circuits. 3,675,110, 7-4-72, Cl. 321-14,000.
Kelley, Fred W., Jr.; and Lezan, Georges R. E., to General Electric Company. Gating control for a static switching arrangement with improved conduction angle balancing means. 3,693,069, 9-19-72, Cl. 323-24,000.
Kelley, James C.: *See*—
Parish, William R.; and Kelley, James C., 3,645,678.
Parish, William R.; and Kelley, James C., 3,645,679.
Parish, William R.; and Kelley, James C., 3,645,680.
Kelley, James K.: *See*—
Mashikian, Matthew S.; Kelley, James K.; and McMurray, William C., 3,673,305.
Kelley, James L. Surgical instrument for intraluminal anastomosis. 3,638,652, 2-1-72, Cl. 128-305.
Kelley, Joe: *See*—
Tollison, James W.; and Kelley, Joe, 3,705,607.
Kelley, Joseph M.: *See*—
Marinaccio, Paul J.; Kelley, Joseph M.; Carrock, Frederick E.; and Allemand, Edward E., 3,637,555.
Kelley, Joseph Matthew: *See*—
Marinaccio, Paul Joseph; and Kelley, Joseph Matthew, 3,637,634.
Kelley, Kork. Method and apparatus for effecting gas control in oil wells. 3,643,740, 2-22-72, Cl. 166-265.
Kelley, Matthias F., Jr.: *See*—
Hind, John D.; and Kelley, Matthias F., Jr., 3,703,177.
Kelley, Raymond E. Adjustable trunk lid holder. 3,674,299, 7-4-72, Cl. 292-262,000.
Kelley, Raymond F.; and Swanke, Roy L., to Dynamics Corporation of America. Battery powered liquidizer. 3,668,491, 6-6-72, Cl. 318-305,000.
Kelley, Robert E., Jr. Football blocking trainer. 3,649,016, 3-14-72, Cl. 273-55.
Kelley, Thomas F.: *See*—
Rosse, Thomas A.; Blackmer, David E.; Zindler, Jerrold; and Kelley, Thomas F., 3,703,336.
Kelley, William E., to Kelley, C. K., & Sons, Inc. Method and apparatus for transporting containers through a pneumatic tube system. 3,667,702, 6-6-72, Cl. 243-32,000.
Kelling, Leroy D. C., to General Electric Company. Automatic cutter compensation for contouring control systems. 3,684,874, 8-15-72, Cl. 235-151,110.
Kelling, Leroy U. C.: *See*—
Evans, John T.; and Kelling, Leroy U. C., 3,651,481.
Kelling, Leroy U. C., to General Electric Company. Numerical function generator. 3,674,999, 7-4-72, Cl. 235-152.
Kellner, Ferdinand. Follow focus bellows for photographic cameras. 3,650,192, 3-21-72, Cl. 95-45.
Kellner, Jackson M., to Smith International, Inc. Drill pipe with wear sleeve. 3,667,817, 6-6-72, Cl. 308-4.
Kellner, Raymond M.; and Gee, Minor E. Machine for fabricating walls. 3,688,965, 9-5-72, Cl. 227-45,000.
Kellogg, Hudson W.: *See*—
Jones, John T.; Ludt, William C.; and Kellogg, Hudson W., 3,690,851.
Kellogg, Lillian M., to Eastman Kodak Company. Photographic processes. 3,681,077, 8-1-72, Cl. 96-107,000.
Kellogg, Lillian M.; and Liebert, Nancy B., to Eastman Kodak Company. Photographic processes. 3,685,997, 8-22-72, Cl. 96-107,000.
Kellos, Arnold J. Window seal tape or strip. 3,641,707, 2-15-72, Cl. 49-462.
Kellstrom, Erik Magnus: *See*—
Fernlund, Lars Martin Ingemar; and Kellstrom, Erik Magnus, 3,663,074.
Kellwood Company: *See*—

- Conner, William R., Jr., 3,636,898.
Conner, William R., Jr., 3,670,674.
Pohl, Harold J.; and Kratky, Raymond H., 3,670,747.
Tegeler, Carol A., 3,633,227.
Weimer, Gerald A., 3,687,125.
Kelly, Brian. Table construction. 3,705,556, 12-12-72, Cl. 108-144,000.
Kelly, Clifford J.; and Hukee, Bernard J., Jr., to Kalium Chemicals Limited. Method of storing particulate matter. 3,703,241, 11-21-72, Cl. 214-152,000.
Kelly, Clifford J., to Kalium Chemicals Limited. Method for operating multiple effect evaporators. 3,704,101, 11-28-72, Cl. 23-296,000.
Kelly Company, Inc.: *See—*
Wiener, Thomas J.; and Kuhns, Robert C., 3,685,077.
Kelly, Cornelius J., Jr., to K-Tech, Inc. Electronic components. 3,701,077, 10-24-72, Cl. 339-17,000.
Kelly, Cornelius James Noel, to Ensign-Bickford Company, The. Explosive particles coated with a water-soluble ionic dye. 3,682,725, 8-8-72, Cl. 149-9,000.
Kelly, David John, to Scott Paper Company. Non-burning, intumescent flexible polyurethane foam. 3,681,273, 8-1-72, Cl. 260-2,5aj.
Kelly, Donald: *See—*
Heller, Martin G.; and Kelly, Donald, 3,701,298.
Kelly, Donald A. Composite thermal transfer system for closed cycle engines. 3,635,017, 1-18-72, Cl. 60-24.
Kelly, Donald A.; and Hladek, James J. Thermal isolation for Stirling cycle engine modules and/modular system. 3,638,420, 2-1-72, Cl. 60-24.
Kelly, Donald D.: *See—*
Heller, Martin G.; and Kelly, Donald D., 3,640,113.
Kelly, Earl K., to McDonnell Douglas Corporation. Rotary rivet dispenser. 3,633,791, 1-11-72, Cl. 221-167.
Kelly, Earl K., to McDonnell Douglas Corporation. Rivet slug injector. 3,700,139, 10-24-72, Cl. 221-241,000.
Kelly, Edward: *See—*
McGowan, Jared; Di Lello, John; and Kelly, Edward, 3,653,323.
Kelly, Edward A.: *See—*
Armstead, George B., Jr.; and Kelly, Edward A., 3,638,594.
Kelly, Edward T.; and McClain, Keith D., to Dynamics Corporation of America. Grille. 3,685,428, 8-22-72, Cl. 98-110,000.
Kelly, Eugene W.: *See—*
Glover, William T.; and Kelly, Eugene W., 3,647,972.
Kelly, George J., Jr.: *See—*
Schroeder, Kenneth H.; and Kelly, George J., Jr., 3,676,219.
Kelly, Gerald R. Article retrieving apparatus. 3,707,268, 12-26-72, Cl. 242-54,000.
Kelly, Gordon Emmet, to RCA Corporation. Apparatus for Hotchosis electronic instruments. 3,699,562, 10-17-72, Cl. 340-253,000.
Kelly, Guy L., to Phillips Petroleum Company. Device for periodically delivering fluid onto an object. 3,658,029, 4-25-72, Cl. 118-7.
Kelly, Howard R.: *See—*
Streb, Alan J.; Stivers, George S.; and Kelly, Howard R., 3,668,015.
Kelly, Jack L.; and Wiandt, Ronald K., to General Electric Company. Orientation independent phonograph. 3,647,222, 3-7-72, Cl. 274-1.
Kelly, Jack L.; and Wiandt, Ronald K., to General Electric Company. Velocity trip mechanism. 3,674,277, 7-4-72, Cl. 274-1,001.
Kelly, James E.: *See—*
Roberts, John A.; Roberts, Peter R.; and Kelly, James E., 3,699,768.
Kelly, Jerry D.; and Beck, Forrest E. Stain remover. 3,664,962, 5-23-72, Cl. 252-125.
Kelly, Joe T.; deceased (by Kelly, LaVerne S.; executrix), to Marathon Oil Company. In situ recovery of oil from tar sands using waterexternal micellar dispersions. 3,637,018, 1-25-72, Cl. 166-272.
Kelly, Joe T.; deceased (by Kelly, LaVerne S.; executrix); and Hummel, Jack L., to Marathon Oil Company. Use of high water content oil-external micellar solutions for extinguishing fires. 3,637,022, 1-25-72, Cl. 169-1.
Kelly, Joe T.; deceased (by Kelly, La Verne S.; executrix); and Poettmann, Fred H., to Marathon Oil Company. Recovery of oil from tar sands using water-external micellar dispersions. 3,644,194, 2-22-72, Cl. 208-11.
Kelly, Joe T.; deceased (Kelly, Laverne S.; executrix). Hydrocarbon sweetening with H₂O₂-containing micellar dispersions. 3,647,683, 3-7-72, Cl. 208-196.
Kelly, Joe T.; deceased (by Kelly, LaVerne S.; executrix); and Poettmann, Fred H., to Marathon Oil Company. In situ recovery of oil from tar sands using oil-external micellar dispersions. 3,648,771, 3-14-72, Cl. 166-272.
Kelly, Joe T.; deceased (by Kelly, LaVerne S.; executrix); and Poettmann, Fred H., to Marathon Oil Company. Recovery of oil from tar sands using high water content oil-external micellar dispersions. 3,660,268, 5-2-72, Cl. 208-11.
Kelly, John B. Alarm signal apparatus to indicate damage to the insulation of an electrical cable as it is being laid underground. 3,648,282, 3-7-72, Cl. 340-421.
Kelly, John C.; and Moore, Christopher J., to Rolls-Royce Limited. Sandwich structure. 3,670,843, 6-20-72, Cl. 181-33,000.
Kelly, John C. Fan construction. 3,698,835, 10-17-72, Cl. 416-132,000.
Kelly, John E. Apparatus for safely storing and dispensing hazardous fluent materials. 3,656,664, 4-18-72, Cl. 222-518.
Kelly, John J. Variable indicia sign. 3,698,112, 10-17-72, Cl. 40-96,000.
Kelly, Joseph Francis; and Prow, Harold James, Jr., to International Telephone and Telegraph Corporation. Flat cable connector. 3,702,982, 11-14-72, Cl. 339-99,000.
Kelly, Joseph L., Jr.; and Woods, Henry B., to Hughes Tool Company. Rotary-percussion gang drill with circumferentially floating offset bits. 3,682,258, 8-8-72, Cl. 175-96,000.
Kelly, Joseph L., Jr., to Hughes Tool Company. Rotary shaft drilling apparatus. 3,695,363, 10-3-72, Cl. 173-43,000.
Kelly, La Verne S.: *See—*
Kelly, Joe T.; and Poettmann, Fred H., 3,644,194.
Kelly, LaVerne S.: *See—*
Kelly, Joe T., 3,637,018.
Kelly, Joe T.; and Hummel, Jack L., 3,637,022.
Kelly, Joe T., 3,647,683.
Kelly, Joe T.; and Poettmann, Fred H., 3,648,771.
Kelly, Joe T.; and Poettmann, Fred H., 3,660,268.
Kelly, Leonard: *See—*
Hutter, James Francis; and Kelly, Leonard, 3,701,419.
Kelly, Michael J. Photographic multi-tone separation process. 3,698,906, 10-17-72, Cl. 96-44,000.
Kelly, Peter Bernard, to Formica Corporation. Decorative aluminum clad laminate. 3,701,711, 10-31-72, Cl. 161-214,000.
Kelly, Peter E.: *See—*
Corman, James C.; and Kelly, Peter E., 3,656,035.
Kelly, Ralph: *See—*
Wessels, Robert F.; and Kelly, Ralph, 3,634,243.
Kelly, Ralph E.: *See—*
Curtis, George L.; Riesenberger, James H.; and Kelly, Ralph E., 3,706,393.
Kelly, Ramond E.: *See—*
Rabon, James L.; Biegler, Warren H.; and Kelly, Ramond E., 3,702,014.
Kelly, Raymond E.: *See—*
Welch, Robert E.; Kelly, Raymond E.; and Ward, Russell S., 3,631,830.
Kelly, Richard Howard: *See—*
Martin, Preston Kuhn; and Kelly, Richard Howard, 3,706,672.
Kelly, Robert C., to Upjohn Company. The. Alkyl-2-alkyl-2,3-dicarboxy-5-norbornene-7-acetate intermediates for the total synthesis of enolic acids and analogs thereof. 3,703,530, 11-21-72, Cl. 260-346,600.
Kelly, Robert Edward: *See—*
Soltan, John Peter; and Kelly, Robert Edward, 3,650,257.
Kelly, Robert G.; Legg, Louis L.; and Ruf, Walter, to St. Regis Paper Company. Valve bag applicator machine. 3,691,715, 9-19-72, Cl. 53-3,000.
Kelly, Robert G. Carpet installation system for use in an aircraft. 3,696,461, 10-10-72, Cl. 16-16,000.
Kelly, Robert Gerard: *See—*
Ellenbogen, Leon; and Kelly, Robert Gerard, 3,646,121.
Kelly, Robert Gerard; and Ellenbogen, Leon, to American Cyanamid Company. Method for inhibiting histamine formation. 3,651,236, 3-21-72, Cl. 424-317.
Kelly, Robert M.: *See—*
Carothers, Charles H.; and Kelly, Robert M., 3,679,938.
Kelly, Samuel H.: *See—*
Hill, Forrest G.; and Kelly, Samuel H., 3,654,863.
Kelly, Samuel T.: *See—*
Haskins, Lauren D.; and Kelly, Samuel T., 3,685,732.
Kelly Systems, Inc.: *See—*
Kelly, William F., 3,703,748.
Kelly, Thomas Edward: *See—*
Murray, William Bruce; Kise, Mearl A.; and Kelly, Thomas Edward, 3,669,616.
Kelly, Vernon. Filing device. 3,683,533, 8-15-72, Cl. 40-359,000.
Kelly, Vincent J.; and Fry, William G., to Gerber Products Company. Stabilized wet baby food. 3,685,999, 8-22-72, Cl. 99-100,000.
Kelly, Vincent J.; Smalligan, Wayne J.; and Cloud, Larry L., to Gerber Products Company. Preparing a dried rice cereal product. 3,690,894, 9-12-72, Cl. 99-82,000.
Kelly, Vincent M., Jr. Non-cumulative-force spring for orthodontic devices. 3,654,702, 4-11-72, Cl. 32-14.
Kelly, Walter A. Submarine tanker. 3,704,678, 12-5-72, Cl. 114-16,000.
Kelly, Warner M.: *See—*
Taylor, Frank H.; and Kelly, Warner M., 3,642,070.
Kelly, Warner M.; and Fredd, John V., to Otis Engineering Corporation. Fire safety valve. 3,659,624, 5-2-72, Cl. 137-75.

- Kelly, Wayne M.: *See—*
Hunton, James Keith; Kelly, Wayne M.; and Takeuchi, James S., 3,678,395.
Kelly, William. Shielded heavy duty cable connector. 3,683,315, 8-8-72, Cl. 339-42,000.
Kelly, William. Heavy duty cable connector. 3,689,866, 9-5-72, Cl. 339-59,000.
Kelly, William F.: *See—*
Russell, Lewis B.; and Kelly, William F., 3,681,773.
Kelly, William F., to Kelly Systems, Inc. Anchor for post-tensioning prestressed concrete. 3,703,748, 11-28-72, Cl. 24-126,000.
Kelly, William J.; and Reynolds, Warren A., to Cogar Corporation. Tape channel switching circuit. 3,681,699, 8-1-72, Cl. 328-143,000.
Kelly, William J., to Cogar Corporation. Automatic control of position and with of a tracking window in a data recovery system. 3,684,967, 8-15-72, Cl. 328-63,000.
Kelman, Charles, to Cavitron Corporation. Surgical handpiece and flow control system for use therewith. 3,693,613, 9-26-72, Cl. 128-24,000.
Kelmar, John J. Non-polluting by-product coal carbonization plant. 3,661,719, 5-9-72, Cl. 201-17,000.
Kelmchuk, Peter, to Ciba-Geigy Corporation. Stabilized polyamide compositions. 3,691,131, 9-12-72, Cl. 260-45,75c.
Kelp, Fritz. High-pressure feedwater preheater. 3,693,597, 9-26-72, Cl. 122-32,000.
Kelp, Fritz, to Kraftwerk Union Aktiengesellschaft. Method for treating heat exchangers and similar apparatus in thermal power plants. 3,705,057, 12-5-72, Cl. 148-6,350.
Kelpin, Thomas G. Aquatic harvester. 3,698,163, 10-17-72, Cl. 56-9,000.
Kelsen, Arthur F. Vaginal applicator. 3,682,176, 8-8-72, Cl. 128-229,000.
Kelsey, Newton D., to Ruth, Arthur P. Ambient light level detector including transient suppression circuitry. 3,665,224, 5-23-72, Cl. 307-311.
Kelsey, Paul S. Method for making slab-faced and headed panels including corners or returns. 3,694,533, 9-26-72, Cl. 264-90,000.
Kelsey, Robert H. Continuous production of alumina whiskers. 3,658,469, 4-25-72, Cl. 23-142.
Kelsey, Ronald A., to Aluminum Company of America. Armor structure. 3,636,895, 1-25-72, Cl. 109-78.
Kelsey-Hayes Company: *See—*
Ayers, David T., Jr., 3,695,730.
Di Giambattista, Vincent N.; and Greene, Robert L., Jr., 3,658,311.
Evans, Antony C., 3,662,864.
Every, Peter, 3,664,714.
Gregg, Horace D., 3,688,373.
Hall, Robert T.; and Justen, Donald L., 3,643,680.
Hayes, Edward J.; and Stelzer, William, 3,653,725.
Hendrickson, Paul G., 3,703,944.
Higgins, William T., 3,702,690.
Johnson, Howard R., 3,668,585.
Johnson, Howard R., 3,684,062.
Jones, Malcolm D., 3,669,509.
Kawai, Shinji, 3,680,922.
Perry, Charles C.; and De Villiers, Andre L., 3,663,069.
Riordan, Hugh E., 3,643,436.
Riordan, Hugh E.; and Jones, Malcolm D., 3,652,886.
Riordan, Hugh E.; and Moncher, Frank L., 3,664,713.
Riordan, Hugh E., 3,687,504.
Rozmus, Walter J.; and Rozmus, Matt T., 3,653,571.
Rozmus, Walter J., 3,664,566.
Rozmus, Walter J.; and Rozmus, Matt T., 3,680,761.
Scharlack, Ronald S., 3,647,267.
Scharlack, Ronald S., 3,663,070.
Shipley, Robert M., 3,656,283.
Stelzer, William, 3,645,494.
Stelzer, William, 3,649,084.
Stelzer, William, 3,695,732.
Stelzer, William, 3,706,477.
Trindle, Terry LaVerne, 3,679,188.
Watanabe, Shunso F., 3,645,499.
Watt, John A.; and Riordan, Hugh E., 3,649,859.
Kelsey-Hayes Company, mesne: *See—*
Rozmus, Walter J., 3,698,438.
Kelso Company: *See—*
Schuppner, Harry R., Jr., 3,659,026.
Kelso, James W., to Xatron Corporation. Automatic film processing apparatus. 3,672,289, 6-27-72, Cl. 95-89,000.
Kelso, John W., to United States Steel Corporation. Apparatus for finishing die nibs. 3,647,669, 3-7-72, Cl. 204-212.
Kelso Marine, Inc.: *See—*
Fiegel, Harry J., Jr.; and Thatcher, Russell S., 3,650,115.
Fiegel, Harry J., Jr.; Thatcher, Russell S.; and Linam, Richard L., 3,650,457.
Thatcher, Russell S., 3,677,009.
Thatcher, Russell S.; and Linam, Richard L., 3,681,926.
Kelso, Robert E., to Dowley Manufacturing, Inc. Wheel or gear puller. 3,689,978, 9-12-72, Cl. 29-259,000.
Kelso, Robert G.: *See—*
McTeer, Lucian W.; and Kelso, Robert G., 3,639,431.
Kelso, Robert Leslie: *See—*
Lang, Edgar Reed; and Kelso, Robert Leslie, 3,634,367.
Keltec, Inc.: *See—*
Ison, Wayne, 3,649,995.
Keltner, Raymond O. Shoulder cross seat belts with controlled passenger deceleration. 3,639,000, 2-1-72, Cl. 297-386.
Kelver, William L., Jr.: *See—*
Zdanys, John, Jr.; Kelver, William L., Jr.; and Weingart, Norman C., 3,643,046.
Kelvey, Harold E.: *See—*
Chase, William B.; Jendrisak, Joseph E.; and Kelvey, Harold E., 3,692,015.
Kelvin Research Corporation: *See—*
Nisenon, Jules, 3,697,168.
Kelyman, Jacqueline S., to Dow Chemical Company, The. Alkylcarbamate acid: 4-alkylthio and 4-alkylsulfonylesters. 3,649,671, 3-14-72, Cl. 260-479.
Kem Krest Products Company: *See—*
Plattner, Andrew J., 3,707,702.
KemaNord AB: *See—*
Widenback, Ralph Hugo, 3,642,189.
Kember, Bryan F., to Ampex Corporation. Tape positioning apparatus. 3,692,256, 9-19-72, Cl. 242-198,000.
Kemeny, Giulio; Gaboardi, Mario; Santini, Aldo; Testori, Mario; Reinhardt, Paul-Dietrich; Simoleit, Hartmut; and Walter, Ludwig, to Kali-Chemical Aktiengesellschaft. Method for the production of barium hydroxide. 3,652,217, 3-28-72, Cl. 23-186.
Kemeny, Julius: *See—*
Joseph, Raymond S.; and Kemeny, Julius, 3,699,580.
Kemerer, Douglas W.; and Pomeranz, Jehoshua N., to International Business Machines Corporation. Bipolar capacitor driver. 3,656,004, 4-11-72, Cl. 307-246.
Kemlage, Bernard M.: *See—*
Badami, Angelo V.; Ebert, Ekkehard; Kemlage, Bernard M.; Kroell, Karl E.; and Pogge, H. Bernhard, 3,669,769.
Kemlage, Bernard M.; and Pogge, Hans B., to International Business Machines Corporation. Process for forming monocrystalline and poly. 3,698,947, 10-17-72, Cl. 117-212,000.
Kemmer, Frank N.; Robertson, Reed S.; and Mattix, Rodney, to Nalco Chemical Company. Sewage treatment process. 3,637,487, 1-25-72, Cl. 210-5.
Kemmer, Frank N.; Robertson, Reid S.; and Mattix, Rodney D., to Nalco Chemical Company. Sewage treatment process. 3,640,820, 2-8-72, Cl. 210-6.
Kemmerer, Kenneth C., to Ametek, Inc. Segment range adjustment clamp. 3,690,181, 9-12-72, Cl. 73-418,000.
Kemmerer, Robert P., Jr.: *See—*
Shapiro, William A.; and Kemmerer, Robert P., Jr., 3,657,733.
Kemmerling, Arthur E. Choker-type collar. 3,701,339, 10-31-72, Cl. 119-106,000.
Kemmerling, Karl-Heinz: *See—*
Gerretz, Josef; Hagedorn, Willi; and Kemmerling, Karl-Heinz, 3,659,446.
Schmitt, Paul; Hien, Manfred; and Kemmerling, Karl-Heinz, 3,688,962.
Kemmerling, Robert A.: *See—*
Reim, Thomas E.; Pollack, Jerry J.; and Kemmerling, Robert A., 3,678,268.
Kemmetmueller, Roland, to American Waagner-Biro Company, Inc. Metallurgical furnace installation and operating method. 3,645,515, 2-29-72, Cl. 263-32.
Kemmetmueller, Roland, to American Waagner-Biro Company, Inc. Apparatus for preheating scrap. 3,669,436, 6-13-72, Cl. 266-13,000.
Kemmetmueller, Roland, to American Waagner-Biro Company, Inc. Method and apparatus for pollution-free charging of coke ovens. 3,697,381, 10-10-72, Cl. 201-40,000.
Kemp Applications Limited: *See—*
Kemp, Jack Voyna Leslie, 3,647,201.
Kemp, Frederick O. Noise-free electrical resistor. 3,697,920, 10-10-72, Cl. 338-121,000.
Kemp, Gordon Arthur; Bachmann, Howard John; Berkelhammer, Gerald; and Asato, Goro, to American Cyanamid Company. Compositions containing 3,6-disubstituted symmetrical tetrazines, salts thereof and method of use thereof. 3,655,890, 4-11-72, Cl. 424-244.
Kemp, Harold S.: *See—*
Akel, Robert B.; and Kemp, Harold S., 3,687,820.
Kemp, Jack Voyna Leslie, to Kemp Applications Limited. Machines for folding paper and other sheets. 3,647,201, 3-7-72, Cl. 270-73.
Kemp, Jacob D., to Chevron Research Company. Jet fuel production. 3,657,377, 4-18-72, Cl. 260-683,48.
Kemp, Jacob D., to Chevron Research Company. Process for the esterification of isobutene. 3,678,099, 7-18-72, Cl. 260-497,000.
Kemp, Norman H. Closure for pressure vessels. 3,647,108, 3-7-72, Cl. 220-46.
Kemp, Robert T., to Mobil Oil Corporation. Mono- and di-halo-1-N-heterocyclovinyl phosphates. 3,641,052, 2-8-72, Cl. 260-310.
Kemp, Sidney D.: *See—*

- Vanderhurst, William L.; and Kemp, Sidney D., 3,647,184.
 Kemp, Stanley William: *See—*
 Tuffnell, Derrick Percival; and Kemp, Stanley William, 3,662,895.
 Kemp, Wayne T., to Caloric Corporation. Constant burning pilot for double burner oven. 3,645,248, 2-29-72, Cl. 126-39.
 Kemp, Woodrow E.; and Flaherty, Lawrence F., to Koppers Company, Inc. Reactive coal tar system containing phenol reactive compound. 3,650,788, 3-21-72, Cl. 106-287.
 Kempa, Joseph E.: *See—*
 Sullivan, Paul G.; MacLeod, Kenneth H.; and Kempa, Joseph E., 3,703,995.
 Kempchen & Co. G.m.b.H.: *See—*
 Klein, Gunter; and Neumann, Johann, 3,651,618.
 Kempe, Philip Courtenay, to Canron Limited. Blast furnace bell construction. 3,645,411, 2-29-72, Cl. 214-36.
 Kempel, George P., to Dop, Inc. Douche kit. 3,688,766, 9-5-72, Cl. 128-232.000.
 Kempel, John J., to Taylor Garage Doors, Inc. Prefabricated door and frame assembly. 3,690,037, 9-12-72, Cl. 49-380.000.
 Kempema, James L.; and Foard, Ralph W., to Lear Siegler, Inc. Method and apparatus for determining maximum allowable jet engine pressure ratios. 3,697,731, 10-10-72, Cl. 235-150.200.
 Kemper, Arthur L.; and Baliklock, Raymond R., to Collins Radio Company. ADF needle stabilizing circuit. 3,696,428, 10-3-72, Cl. 343-117.004.
 Kemper, Clarence A.; Eastman, Richard H.; and Leigh, John H., to Kaye, Joseph, & Company. Uniform temperature reference apparatus. 3,648,523, 3-14-72, Cl. 73-361.
 Kemper, Clyde F.: *See—*
 Cover, Paul F.; Rife, John W.; Kemper, Clyde F.; and Reed, Donald E., 3,685,519.
 Kemper, Daryl M.: *See—*
 Scott, Kelley E., Jr.; Kemper, Daryl M.; Grove, Lloyd E.; and Kiess, Ronald J., 3,656,217.
 Kemper, Eugene L., to Upton Industries, Inc. Salt bath furnace for copper reclamation. 3,666,870, 5-30-72, Cl. 13-23.
 Kemper, Jackson, Jr.: *See—*
 Gustafson, Walter R.; McMillen, William H.; Kemper, Jackson, Jr.; and Newman, Leonard, 3,688,312.
 Kemper, James M., to Monogram Industries, Inc. Self-contained recirculating sanitary system. 3,634,891, 1-18-72, Cl. 4-10.
 Kemper, James Morgan, to Monogram Industries, Inc. Recirculating toilet system and filter therefor. 3,662,888, 5-16-72, Cl. 210-167.000.
 Kemper, Kate. Dough handling and shaping apparatus. 3,649,149, 3-14-72, Cl. 425-241.
 Kemper, Wayne G. Decorative plastic wall tile. 3,703,431, 11-21-72, Cl. 161-6.000.
 Kempermann, Theo: *See—*
 Ley, Kurt; Nast, Roland; Redetzky, Wolfgang; and Kempermann, Theo, 3,661,905.
 Nast, Roland; Ley, Kurt; Redetzky, Wolfgang; and Kempermann, Theo, 3,639,485.
 Schubart, Rudiger; Eholzer, Ulrich; Kempermann, Theo; and Roos, Ernst, 3,697,433.
 Kempf, August J.: *See—*
 Chalet, Louis; and Kempf, August J., 3,652,401.
 Kempf, Raymond Andrew, to Bell Telephone Laboratories, Incorporated. Cable sections with nonmechanical means to effect coupling. 3,693,114, 9-19-72, Cl. 333-7.000.
 Kempis, Edward B.: *See—*
 Pope, Noel C.; Kempis, Edward B.; and O'Donovan, Kevin H. J., 3,642,412.
 Kemppinen, Auvo I.; and Strum, Bobbie W., to Reynolds Metals Company. Extrusion method and apparatus. 3,670,542, 6-20-72, Cl. 72-8.000.
 Kempson, George C.; and Gilbert, Arthur N., to Monsanto Company. Convertible athletic field. 3,682,476, 8-8-72, Cl. 273-25.000.
 Kempthorne, Richard Lewis, to Sprayon Research Corporation. Method for spraying a high density insulating mat. 3,676,170, 7-11-72, Cl. 117-16.000.
 Kempton, Marvin L.: *See—*
 Colgate, Stirling A.; Kempton, Marvin L.; Hanson, Merle E.; Munson, William O.; and Nicholson, Dallas E., 3,696,750.
 Kempton, Marvin L., to United States of America, Navy, mesne. Rod warhead. 3,696,751, 10-10-72, Cl. 102-67.000.
 Kemsey-Bourne, Kenneth, to English Calico Limited. Production of tubular articles. 3,671,348, 6-20-72, Cl. 156-187.000.
 Kemter, Heinz: *See—*
 Doring, Wolfgang; Frenzel, Bertram; Hentschel, Hans-Dieter; Kemter, Heinz; Mickenautsch, Werner; and Schmidt, Harry, 3,665,732.
 Ken-Bar Tool & Engineering, Inc.: *See—*
 Lamm, Merritt Otis, 3,685,340.
 Ken-Flo Products Corporation: *See—*
 White, Eugene B., 3,693,798.
 Kenaga, Duane L., to Dow Chemical Company. The Method for preparing laminar wood structures. 3,649,442, 3-14-72, Cl. 161-184.
 Kenco Products Corporation: *See—*
 Ohlson, Arvid T.; and Tall, Kenneth I., 3,651,991.
 Kendall Company, The: *See—*
 Butler, David B., 3,691,005.
 Hammo, Fred H., Jr., 3,681,979.
 Hartigan, Edward G., 3,648,290.
 Hielema, Ralph, 3,700,520.
 Hoyle, Albert G., 3,676,288.
 Laakso, Perttu V., 3,644,603.
 Laakso, Perttu V., 3,697,626.
 Mack, Robert J.; and Fischer, John L., 3,703,897.
 McWhorter, Daniel M., 3,683,930.
 McWhorter, Daniel M.; and Villari, Frank K., 3,693,407.
 Mitchell, Philip A., 3,648,319.
 Reinhard, John F.; Samour, Carlos M.; and Vida, Julius A., 3,663,699.
 Samour, Carlos M.; and Falka, Martin L., 3,671,502.
 Schaar, Charles H., 3,635,724.
 Schaar, Charles H., 3,650,273.
 Schaar, Charles H., 3,658,063.
 Shimota, Robert E., 3,651,305.
 Shimota, Robert E.; and Dritt, Harry J., 3,660,191.
 Taylor, Glenn N., 3,675,658.
 Taylor, Glenn N., 3,689,939.
 Taylor, Glenn N., 3,696,443.
 Vida, Julius A.; and Wilber, William R., 3,635,980.
 Vida, Julius A., 3,676,454.
 Vida, Julius A., 3,683,083.
 Villari, Frank K., 3,683,894.
 Kendall, David N.: *See—*
 Dixon, William Paul; and Kendall, David N., 3,671,328.
 Kendall, Don Leslie, to Texas Instruments, Incorporated. Computer controlled device testing and subsequent arbitrary adjustment of device characteristics. 3,674,995, 7-4-72, Cl. 235-151.100.
 Kendall, Earl W., to Rohr Corporation. Method and electrolytes for anodizing titanium and its alloys. 3,663,379, 5-16-72, Cl. 204-56.
 Kendall, Earl W., to Rohr Corporation. Method and solutions for treating titanium and like metals and their alloys. 3,687,741, 8-29-72, Cl. 148-6.14r.
 Kendall, George H., Sr., to Kendall-Russell, Inc. Automatic manufacture of clothing. 3,650,875, 3-21-72, Cl. 156-559.
 Kendall, Giles A.: *See—*
 Bhutani, Harish K.; and Kendall, Giles A., 3,647,199.
 Kendall, Giles A., to Menasco Manufacturing Company. Energy absorbing guardrail. 3,690,619, 9-12-72, Cl. 256-13.100.
 Kendall, Giles A.; and Bhutani, Harish K., to Menasco Manufacturing Company. Energy absorbing barrier post assembly. 3,693,940, 9-26-72, Cl. 256-1.000.
 Kendall, Giles Arthur; and Minick, Robert, to Menasco Manufacturing Company. Tactical cargo hook. 3,677,507, 7-18-72, Cl. 244-137.000.
 Kendall, Jerry A.: *See—*
 Balmer, John D.; and Kendall, Jerry A., 3,706,241.
 Berg, Quentin; and Kendall, Jerry A., 3,677,116.
 Kendall, Jerry A., to Elfab Corporation. Method for manufacturing connector terminals. 3,676,926, 7-18-72, Cl. 29-625.000.
 Kendall, John George Leonard; and Ladkin, Derek, to Bitumen Industries Limited. Connecting apparatus. 3,707,421, 12-26-72, Cl. 156-380.000.
 Kendall, John P.: *See—*
 Hirt, Thomas J.; Kissinger, Richard D.; Kendall, John P.; and Frantzen, Karl H., 3,707,644.
 Kendall, Larry J., to Signetics Corporation. Integrated circuit with temperature compensation for a field effect transistor. 3,703,650, 11-21-72, Cl. 307-310.000.
 Kendall, Louis F., Jr.; and Bredt, James H., to General Electric Company. Diffusion barriers for semiconductive thermoelectric generator elements. 3,650,844, 3-21-72, Cl. 136-237.
 Kendall, Louis F., Jr.; and Bredt, James H., to General Electric Company. N-type lead telluride. 3,652,421, 3-28-72, Cl. 252-62.3.
 Kendall, Lytton A., Jr.: *See—*
 Minchenko, Hildegard M.; and Kendall, Lytton A., Jr., 3,643,483.
 Kendall, Lytton A., Jr., to Ohio State University. The Wire drawing apparatus using vibratory-mechanical energy and curved transmission line. 3,701,271, 10-31-72, Cl. 72-56.000.
 Kendall, Ray E. Vertically adjustable tow bar assembly. 3,692,330, 9-19-72, Cl. 280-402.000.
 Kendall, Richard G. Clamp board for multiple entry accounting system. 3,645,561, 2-29-72, Cl. 282-29.
 Kendall, Trevor William, to Dictaphone Corporation, mesne. Cassette hub leading head. 3,668,759, 6-13-72, Cl. 29-200.00b.
 Kendall-Russell, Inc.: *See—*
 Kendall, George H., Sr., 3,650,875.
 Kendall, Roy, to Ultra Electronics Limited. Thermocouple response time compensation circuit arrangement. 3,691,405, 9-12-72, Cl. 307-295.000.
 Kendrick Manufacturing Company: *See—*
 Bugg, Kenly C., 3,652,971.
 Kendrick, Douglas O.: *See—*
 Friebrand, Neil G.; and Kendrick, Douglas O., 3,639,911.

- Kendrick, Earl L.; and Sandberg, Harry W., to Du Pont de Nemours, E. I., and Company. Process for accomplishing heat exchange corrosive liquid process stream and a second liquid. 3,662,817, 5-16-72, Cl. 165-1.
 Kendrick, Gary R.: *See—*
 Sauder, Robert A.; and Kendrick, Gary R., 3,706,870.
 Kendrick, Gary R., to Combustion Engineering, Inc. Flow responsive circuit. 3,641,819, 2-15-72, Cl. 73-229.
 Kendrick, Thomas Charles; and Owen, Michael James, to Midland Silicones Limited. Organic polymers containing siloxane-organic block copolymers. 3,691,257, 9-12-72, Cl. 260-827.000.
 Kendrick, William P.: *See—*
 Lubowitz, Hyman R.; Kendrick, William P.; Jones, John F.; Thorpe, Richard S.; and Burns, Eugene A., 3,647,529.
 Lubowitz, Hyman R.; Kendrick, William P.; Jones, John F.; and Burns, Eugene A., 3,699,074.
 Kendrick, Zola F. Foot guard. 3,640,006, 2-8-72, Cl. 36-8.1.
 Kenedi, Robert: *See—*
 Jezioranski, Joseph S.; Kenedi, Robert; and Gagnier, Real, 3,636,263.
 Keneman, Scott Allen; and Miller, Arthur, to RCA Corporation. Electro-optical memory employing ferroelectric element. 3,680,060, 7-25-72, Cl. 340-173.200.
 Keneson, George; and Lewis, Marion D. Material handling apparatus. 3,656,643, 4-18-72, Cl. 214-315.
 Kenics Corporation: *See—*
 Grout, Kenneth M.; and Devellian, Richard D., 3,664,638.
 Grout, Kenneth M.; and Devellian, Richard D., 3,704,006.
 Keniston, John W. Pincers. 3,677,112, 7-18-72, Cl. 81-43.000.
 Kenji, Maeda: *See—*
 Umezawa, Hamao; Shinichi, Kondo; Kenji, Maeda; Tomio, Takeuchi; and Masa, Hamada, 3,679,742.
 Kenji Watanabe: *See—*
 Kasawaki, Keiki, 3,682,121.
 Kenmochi, Hirohito: *See—*
 Hotta, Seiji; Nakano, Tomio; Kenmochi, Hirohito; and Akamatsu, Takashi, 3,636,064.
 Kenmochi, Hirohito; Hotta, Seiji; and Akamatsu, Takashi, to Sumitomo Chemical Company, Ltd. Anthraquinone dyes containing a reactive carbamylmethyl group. 3,632,611, 1-4-72, Cl. 260-372.
 Kenmochi, Hirohito; Hotta, Seiji; and Akamatsu, Takashi, to Sumitomo Chemical Company, Ltd. Light-fast and wash-fast reactive phthalocyanine dyes. 3,663,537, 5-16-72, Cl. 260-239.600.
 Kenmoku, Yoshihiro: *See—*
 Sugano, Izuru; Akashi, Tsuneo; Matsubara, Tetsujin; Kenmoku, Yoshihiro; and Okuda, Taneaki, 3,652,416.
 Kenmotsu, Yoko: *See—*
 Nagasawa, Taro; Tomita, Mamoru; Obayashi, Tomokazu; Tamura, Yoshitaka; and Kenmotsu, Yoko, 3,674,500.
 Kennametal Inc.: *See—*
 Eversole, William C.; and Heaton, James W., 3,678,632.
 Gulibon, Robert S.; and Heaton, James W., 3,704,958.
 Heaton, James W.; Eversole, William C.; and Friedline, Ernest J., 3,690,783.
 Jones, Dennis Glyn, 3,688,366.
 Kennicott, Wilbur L.; and Heaton, James W., 3,694,879.
 Kita, John F.; and Heaton, James W., 3,695,723.
 Kniff, Thomas J., 3,650,565.
 Kosker, Leon G., 3,647,307.
 McCreery, James F., 3,672,784.
 Nemeth, Bela J., 3,702,573.
 Oaks, Seibert S.; and Kita, John F., 3,646,649.
 Stephenson, Earle W.; Newberry, James G.; and Hazzard, Robert C. (said Stephenson assor. to), 3,659,793.
 Kennametal Inc., mesne: *See—*
 Goodfellow, Robert D., 3,679,009.
 Kennard, Thomas A. Vehicle anti-theft arrangement. 3,648,491, 3-14-72, Cl. 70-241.
 Kennecott Copper Corporation: *See—*
 Castillo, Cecilio O., 3,645,455.
 Franz, Henry W., 3,642,599.
 Marquardson, Kent F.; and Lewis, Daniel M., 3,682,809.
 Martin, Richard G.; Tuddenham, William M.; and Lebrizz, Joseph M., 3,691,832.
 Noy, Jack M., 3,705,230.
 Peterson, Thomas D.; and Crosser, Ralph W., Jr., 3,682,325.
 Polinsky, Samuel M.; and Schellinger, Alfred K., 3,655,337.
 Redman, Michael J., 3,702,888.
 Skarbo, Roald R., 3,653,815.
 Spedden, Henry R.; Apps, John A.; and Lowe, Donald F., 3,669,651.
 Spedden, Henry Rush; and Malouf, Emil Edward, 3,634,071.
 Spedden, Henry Rush; and Malouf, Emil Edward, 3,639,003.
 Spedden, Henry Rush; and Malouf, Emil Edward, 3,661,563.
 Stocker, James F., 3,686,829.
 Tuddenham, William Marvin; and Adamson, David L., 3,682,798.
 Walk, George A.; and Jones, Clifford V., 3,695,603.
 Walter, Kenneth E., 3,686,563.
 Wang, Chih-Chung, 3,669,182.
 Wang, Chih-Chung, 3,677,906.
 Wetzel, Mayo R., 3,638,500.
 Kennedy, Kurt D.: *See—*
 Firestone, Alexander H.; Fisk, Robert W.; and Kennedy, Kurt D., 3,655,902.
 Kennedy, Alexander W.; and Malkin, Irving, to Diamond Shamrock Corporation. Coated metal and method. 3,687,739, 8-29-72, Cl. 148-6.200.
 Kennedy, Alice W.: *See—*
 Shank, Raymond S.; Kallenborn, Vernon H.; and Kennedy, Alice W., 3,682,858.
 Kennedy, Alvin B., Jr., to Catalyst Services, Inc. Dry product loading apparatus. 3,653,526, 4-4-72, Cl. 214-313.
 Kennedy, Alvin B., Jr., to Catalyst Services, Inc. Handling apparatus for particulate dry product. 3,662,886, 5-16-72, Cl. 209-250.000.
 Kennedy, Bert. Boxing glove. 3,663,960, 5-23-72, Cl. 2-18.000.
 Kennedy, Bobby W., to United States of America, National Aeronautics and Space Administration. Polyimide resin-fiberglass cloth laminates for printed circuit boards. 3,700,538, 10-24-72, Cl. 161-93.000.
 Kennedy, Charles H.: *See—*
 Anderson, Carl P.; Kennedy, Charles H.; and Perry, Donald S., 3,643,779.
 Kennedy, Christopher John; Shepherd, Alexander Turnbull; and Thomas, Graham Isaac, to Ferranti, Limited. Measuring apparatus. 3,702,471, 11-7-72, Cl. 340-347.00p.
 Kennedy, David K., to Allied Chemical Corporation. Recovery of dilute caustic soda solutions from spent liquors containing hemicellulose. 3,635,670, 1-18-72, Cl. 23-185.
 Kennedy, David Rankine: *See—*
 Shephard, Robert Basil; Clachan, Margaret Loudon; Kennedy, David Rankine; and Abbott, Terence Arnold, 3,674,531.
 Kennedy, Francis Alan. Baby's crib. 3,638,247, 2-1-72, Cl. 5-11.
 Kennedy, Francis V. Process and apparatus for facilitating the landing of a vehicle on a landing surface. 3,693,143, 9-19-72, Cl. 340-27.0na.
 Kennedy, Frank; and Roberts, Thomas C., to United States Steel Corporation. Roller conveyor. 3,672,486, 6-27-72, Cl. 198-127.000.
 Kennedy, George C., to Teledyne, Inc. Method for manufacturing diamonds in a hydrogen free environment. 3,676,069, 7-11-72, Cl. 23-209.100.
 Kennedy, George C., to Teledyne, Inc. Apparatus for manufacturing diamonds. 3,704,969, 12-5-72, Cl. 425-77.000.
 Kennedy, Harry R., to Richen Co., Inc., The. Noise suppression assembly. 3,633,706, 1-11-72, Cl. 181-33.
 Kennedy, James: *See—*
 Clark, John Colin; Cowley, Brian Richard; Gregory, Gordon Ian; Kennedy, James; and Long, Alan Gibson, 3,647,788.
 Clark, John Colin; Kennedy, James; and Long, Alan Gibson, 3,668,203.
 Eardley, Stephen; Kennedy, James; and Long, Alan Gibson, 3,658,799.
 Kennedy, James; Long, Alan Gibson; and Underwood, William G. E., to Glaxo Laboratories Limited. Cephalosporin compounds. 3,665,003, 5-23-72, Cl. 260-243.00c.
 Kennedy, James A.: *See—*
 Blessin, Ronald W.; and Kennedy, James A., 3,680,051.
 Blessin, Ronald W.; and Kennedy, James A., 3,680,057.
 Finch, DeVer C.; and Kennedy, James A., 3,676,858.
 Kennedy, James D. Socket device for connecting circuit components with a circuit board. 3,685,002, 8-15-72, Cl. 339-17.000.
 Kennedy, James E.; and Koboldt, Melvin A., to Container Corporation of America. Easy open container with pressure release and safety feature. 3,690,506, 9-12-72, Cl. 220-54.000.
 Kennedy, James S.: *See—*
 Blanchard, Robert R.; Kennedy, James S.; and Roberts, Reginald F., 3,706,724.
 Young, Warren L.; Kennedy, James S.; Carnahan, Norman F.; and Blanchard, Robert R., 3,632,848.
 Kennedy, John Frederick: *See—*
 Barker, Sidney Alan; Kennedy, John Frederick; and Cray, Charles John, 3,705,890.
 Kennedy, Joseph P.: *See—*
 Canter, Nathan H.; and Kennedy, Joseph P., 3,646,166.
 Kennedy, Joseph P.; and Baldwin, Francis P., to Esso Research and Engineering Company. Butyl rubber catalyst system. 3,694,377, 9-26-72, Cl. 252-431.00r.
 Kennedy, Kenneth F. Marine sewage collection and discharge systems. 3,703,960, 11-28-72, Cl. 210-121.000.
 Kennedy, Leo J., to Owens-Illinois, Inc. Method and apparatus for inductive heating. 3,694,609, 9-26-72, Cl. 219-10.790.
 Kennedy, Matthew Campbell, to English Electric Valve Company Limited. Cooling arrangements for valves. 3,644,769, 2-22-72, Cl. 313-46.
 Kennedy, Matthew Campbell; and Tourle, Peter, to English Electric Valve Company Limited. Electron discharge tubes. 3,644,771, 2-22-72, Cl. 313-153.
 Kennedy, Melvin R.: *See—*
 Beny, Janos; Bosley, Denis V.; and Kennedy, Melvin R., 3,654,728.

Kennedy, Melvin R.; and Procter, Brian S., to Mattel, Inc. Lap counter for toy vehicles. 3,667,672, 6-6-72, Cl. 235-98.00b.

Kennedy, Oswald; and Harrison, John Ian, to Vickers Limited. Run-out troughs for extrusion presses. 3,667,273, 6-6-72, Cl. 72-257.

Kennedy, Paul G.: *See—*
Newell, George F.; and Kennedy, Paul G., 3,673,317.

Kennedy, Paul G.; and Mackenzie, Raymond W., to Westinghouse Electric Corporation. Wide deviation magnetic recording techniques. 3,659,042, 4-25-72, Cl. 178-6.6.

Kennedy, Paul G.; Zeigler, Rodney N.; and Provine, Daniel J., to Westinghouse Electric Corporation. Synchronization method and apparatus for disc recorders. 3,705,262, 12-5-72, Cl. 178-6.6dd.

Kennedy, Peter J., to Ford Motor Company. Light reflection preventive device. 3,679,887, 7-25-72, Cl. 240-8.160.

Kennedy, Ralph C.; La Violette, Paul A.; and Stromberg, Henry M., to Colt Industries Operating Corporation, mesne. Safety device for firearms. 3,670,442, 6-20-72, Cl. 42-70.00f.

Kennedy, Ralph C.; and Torning, Ralph R., to Colt Industries Operating Corporation, mesne. Cylinder locking mechanism. 3,696,543, 10-10-72, Cl. 42-67.000.

Kennedy, Ray L., to Tel-E-Lect, Inc. Dielectrically extensible boom structure. 3,699,851, 10-24-72, Cl. 92-119.000.

Kennedy, Robert Arthur. Tubular maze toys. 3,704,541, 12-5-72, Cl. 46-26.000.

Kennedy, Robert M.: *See—*
Wilson, Kenneth R.; and Kennedy, Robert M., 3,655,696.

Kennedy, Theodore R.: *See—*
Boehm, Paul C.; and Kennedy, Theodore R., 3,657,602.

Kennedy Valve Mfg., Co., Inc.: *See—*
Dashner, James William, 3,692,042.

Kennedy Von Saun Corporation: *See—*
Root, William Edward, 3,690,570.

Kennedy, William A.: *See—*
Cory, Terry S.; and Kennedy, William A., 3,683,390.

Kennedy, William Alvis, to Jefferson Chemical Company, Inc. Catalyst combination for polyurethanes. 3,661,808, 5-9-72, Cl. 260-2.5.

Kennedy, William L.: *See—*
Hohman, Alvin E.; and Kennedy, William L., 3,639,135.

Kennedy-Skipston, Henry Kinmy, to Imperial Chemical Industries Limited. Treatment of finely divided particles and particles so treated. 3,649,588, 3-14-72, Cl. 260-37.

Kennelly, Robert W.: *See—*
Jeromson, James R., Jr.; and Kennelly, Robert W., 3,649,799.

Kennelly, Robert W., to Weatherhead Company, The. Welding head with detachable power handle. 3,688,071, 8-29-72, Cl. 219-60.00a.

Kenner, Bernard A., to Electronic Memories and Magnetics Corporation. Read and write systems for 2 1/2D core memory. 3,693,176, 9-19-72, Cl. 340-174.01a.

Kenneryd, Karl Gosta Lennart: *See—*
Magnusson, Olov Tage; and Kenneryd, Karl Gosta Lennart, 3,668,889.

Kenney, David A., to Northrop Corporation. Declining resistance resistor. 3,638,159, 1-25-72, Cl. 338-20.

Kenney, Donald M.: *See—*
Foehring, Robert A.; Garnache, Richard R.; and Kenney, Donald M., 3,672,948.

Garnache, Richard R.; and Kenney, Donald M., 3,645,545.

Kenney, Edward J.: *See—*
Sundby, Bjorn; Kenney, Edward J.; and Wixon, Harold E., 3,700,607.

Kenney, Frank D.; trustee: *See—*
Banning, Thomas A., Jr., 3,679,813.

Kenney, Harold E.: *See—*
Maerker, Gerhard; and Kenney, Harold E., 3,701,802.

Kenney, Jerald R. Putting cup arrangement for golf practice. 3,700,243, 10-24-72, Cl. 273-178.00r.

Kenney, John Thomas, to Western Electric Company, Incorporated. Method of rendering a non-wettable surface wettable. 3,657,003, 4-18-72, Cl. 117-120.

Kenney, Malcolm E. Organo-inorgano polymers and their preparation. 3,661,846, 5-9-72, Cl. 260-46.5.

Kenney Manufacturing Company: *See—*
Di Panni, Edward G., Jr., 3,661,272.

Kenney, William D., to Midland Manufacturing Company, Inc. Hinge locking means for a foldable auxiliary tool frame. 3,692,121, 9-19-72, Cl. 172-456.000.

Kennigott, Kurt: *See—*
Krestan, Rudolf; and Kennigott, Kurt, 3,688,871.

Kennicott, Wilbur L.; and Heaton, James W., to Kennametal Inc. Tool holder and method of using. 3,694,879, 10-3-72, Cl. 29-96.000.

Kennington, Arnold Reginald; and Smith, Arthur Ernest. Automatic photographing apparatus. 3,631,781, 1-4-71, Cl. 95-14.

Kennon, Jerry M.: *See—*
Strandberg, Charles F., Jr.; Strandberg, Robert C.; and Kennon, Jerry M., 3,665,165.

Kenny, John, to Denices Limited. Demand cardiac pacer with fast rate for indicating interference. 3,688,776, 9-5-72, Cl. 128-419.00p.

Kenny, John, to Devices Limited. Implantable electric device. 3,690,325, 9-12-72, Cl. 128-419.00r.

Kenny, Patrick Joseph, to Kenon Limited. Coin released mechanism in a vending machines. 3,666,068, 5-30-72, Cl. 194-58.

Kenny, Terrence G., to Lever Brothers Company. Stabilized liquid detergent composition. 3,707,503, 12-26-72, Cl. 252-117.000.

Kenrick, Charles R.: *See—*
Cornell, William D.; Schankler, Martin M.; and Kenrick, Charles R., 3,643,959.

Kenrick, Joseph F. Catcher for fruits nuts, and the like. 3,698,170, 10-17-72, Cl. 56-329.000.

Kensil, Charles E.: *See—*
McKee, Herbert A.; Kensil, Charles E.; and Udell, Walter B., 3,680,156.

Kensinger, Lex Donald: *See—*
Longenecker, Bruce Cameron; De Lyon, Armand Rene; and Kensinger, Lex Donald, 3,634,879.

Kensler, Charles J.: *See—*
Johnson, Dennis E.; Woodland, Lawrence R.; Kensler, Charles J.; and Himmelfarb, Philip, 3,647,632.

Kenson Limited: *See—*
Kenny, Patrick Joseph, 3,666,068.

Kent, Alan Hugh; and Davis, John Christopher Hammond, to Plessey Telecommunications Research Limited. Control of gyroscope spin-up devices. 3,667,301, 6-6-72, Cl. 74-5.100.

Kent, Arthur P.: *See—*
Marks, Alvin M.; Marks, Mortimer M.; and Kent, Arthur P., 3,679,451.

Kent, Cecil, to Creators Limited. Decorative plastics strips and extrusions. 3,681,180, 8-1-72, Cl. 161-5.000.

Kent, Cecil, to Creators Limited. Glazing windows or windscreen openings, particularly in vehicle bodies. 3,705,470, 12-12-72, Cl. 52-208.000.

Kent Engineering: *See—*
Van Noord, Andrew J., 3,650,606.

Kent, Eric G., to Polymer Corporation. Raw mixture of rubbery isobutylene polymer with crystalline iron-1,4-conjugated diolefin polymer. 3,639,525, 2-1-72, Cl. 260-888.

Kent, George A.: *See—*
Zahnen, Joseph G.; and Kent, George A., 3,646,392.

Kent, George, Limited: *See—*
Duffy, Laurence Sidney, 3,636,767.

Record, Robert George Hamilton; Wilson, Haydn; and Rudd, Derek Austen, 3,645,875.

Kent Instruments Limited: *See—*
Zanker, Klaus Joachim; and Harrison, Derrick Norman, 3,668,931.

Kent Meters Limited: *See—*
Stoten, Terence Arthur, 3,636,517.

Kent, Miles L. Roll out step for pick up trucks. 3,671,058, 6-20-72, Cl. 280-166.000.

Kent, Nelson H.; and Fullagar, Keith P. L., to Rolls-Royce Limited. Method and apparatus for turbine blade cooling. 3,635,586, 1-18-72, Cl. 416-97.

Kent, R. O., Corporation: *See—*
Kent, Stephen D., 3,693,233.

Kent, Richard T.; and Koch, Robert M., to Addressograph-Multigraph Corporation. Liquid collecting apparatus. 3,682,077, 8-8-72, Cl. 95-89.00r.

Kent, Roger E.: *See—*
Mc Ivaine, Robert L.; and Kent, Roger E., 3,656,279.

Mellvaine, Robert L.; and Kent, Roger E., 3,685,261.

Kent, Roger E., to National Dust Collector Corporation. Gas scrubber. 3,680,282, 8-1-72, Cl. 55-233.000.

Kent, Roger E., to National Dust Collector Corporation. Gas scrubber having tiltable grids and method of using. 3,683,593, 8-15-72, Cl. 65-91.000.

Kent, Ronald E.; and Rothenberger, Alvin C., to McDonnell Douglas Corporation. Bulge-forming apparatus. 3,670,545, 6-20-72, Cl. 72-58.000.

Kent, Sherman. Puzzle with pieces in the form of subdivided rhombuses. 3,637,217, 1-25-72, Cl. 273-157.

Kent, Stephen D., to Kent, R. O., Corporation. Machine for clipping and bending the twigs and limb of artificial tree branches. 3,693,233, 9-26-72, Cl. 29-208.00d.

Kent, William C., to Western Electric Company, Incorporated. Apparatus for forming wire springs and welding contacts to the springs. 3,703,029, 11-21-72, Cl. 29-208.00d.

Kent-Moore Corporation: *See—*
Deming, Roy, 3,698,244.

Kenton, Joseph R.: *See—*
Banks, Robert L.; and Kenton, Joseph R., 3,660,506.

Kenton, Joseph R.; and Mahan, John E., to Phillips Petroleum Company. Olefin conversion with an heterogeneous olefin disproportionation catalyst combined with rhodium oxide. 3,658,930, 4-25-72, Cl. 260-683.

Kentor, William E. Process for preserving meats. 3,664,850, 5-23-72, Cl. 99i157.

Kentucky Electronics Inc.: *See—*
Blumenberg, Horst H.; and Francillon, Francis W., 3,696,491.

Merchant, Chester O., 3,650,002.

Kentucky Fried Chicken Corporation, mesne: *See—*
Pelster, Arthur F.; and Modglin, Donald D., 3,677,174.

Kenville, Cyril P.: *See—*
Kueneman, Don; and Kenville, Cyril P., 3,690,573.

Kuenenman, Don; and Kenville, Cyril P., 3,688,995.

Kenwal Machine Company, Inc.: *See—*
Wells, Sylvan O., 3,664,394.

Kenwell, Edward Albert. Book support for the physically infirm. 3,677,510, 7-18-72, Cl. 248-441.000.

Kenwood Manufacturing (Working) Limited: *See—*
Collie, Arthur A., 3,701,935.

Kenworthy, Derek: *See—*
Fawdrey, Cecil Arthur; Simms, John Robert; Kenworthy, Derek; Roxburgh, Albert; and Hobbs, David, 3,683,141.

Kenworthy, Earl L.; and Hibbs, Russell R., to International Telephone and Telegraph Corporation. Apparatus and method of compensating a long highly dispersive traveling wave transmission line. 3,643,261, 2-15-72, Cl. 343-771.

Kenyon, Derek: *See—*
Wilson, Donald James; and Kenyon, Derek, 3,638,706.

Kenyon, Fred V., to Robertshaw Controls Company. Thermocouple. 3,650,843, 3-21-72, Cl. 136-217.

Kenyon, Kenneth H.: *See—*
Bergum, Bernard C.; and Kenyon, Kenneth H., 3,674,565.

Bergum, Bernard C.; Bilhorn, John M.; Kenyon, Kenneth H.; Macaulay, William R.; and Youngquist, John A., 3,694,266.

Kenyon, Richard L.: *See—*
Hickey, William G.; and Kenyon, Richard L., 3,691,730.

Kenyon, Roger B.: *See—*
Czerkas, Alfred E.; and Kenyon, Roger B., 3,663,683.

Kenyon, William, & Sons Limited: *See—*
Mitchell, Thomas; and Grossman, Frederick, 3,665,773.

Kenzie, Nozaki, to Shell Oil Company. Process for preparing inter-polymers of carbon monoxide in the presence of aryl phosphine-palladium complex. 3,694,412, 9-26-72, Cl. 260-63.00c.

Keogh, James R., Jr., to FMC Corporation. Cleaning oil laden metal waste to recover the metal and reclaim the oil. 3,639,172, 2-1-72, Cl. 134-25.

Keogh, Michael J.; and Ingberman, Arthur K., to Union Carbide Corporation. Process for preparing a mixture of aromatic sulfones and aromatic sulfonyl chlorides. 3,701,806, 10-31-72, Cl. 260-543.00r.

Keogh, Raymond J.; and Wilczek, Frank J., to Photocircuits Corporation. Apparatus for making wire scribed circuit boards. 3,674,602, 7-4-72, Cl. 156-380.000.

Keough, Allen H.: *See—*
Clough, Philip J.; and Keough, Allen H., 3,646,749.

Keough, Patricia Tarpey: *See—*
Grayson, Martin; and Keough, Patricia Tarpey, 3,689,601.

Keough, Timothy J.: *See—*
Ribner, Morris; and Keough, Timothy J., 3,637,948.

Keough, William R., 45% to Multifastener Company. Method of maintaining constant water volume in a molten salt solution. 3,645,802, 2-29-72, Cl. 148-15.

Keough, William R., to Multifastener Company. Heat treating method. 3,650,853, 3-21-72, Cl. 148-143.

Kepka, Alfred Anton Franz; and Kepka, Herwig Gunther. Safety handle for a ski pole and safety knob for such handle. 3,685,850, 8-22-72, Cl. 280-11.37h.

Kepka, Herwig Gunther: *See—*
Kepka, Alfred Anton Franz; and Kepka, Herwig Gunther, 3,685,850.

Kepner, Larry A., to Ford Motor Company. Four-speed ratio power transmission mechanism having simple planetary gear units. 3,640,153, 2-8-72, Cl. 74-759.

Kepner, Theodore S.; and Miller, Michael F., to Sylvania Electric Products, Inc. Compression switch. 3,654,407, 4-4-72, Cl. 200-86.

Keppel, Charles M.; and Weiss, Irwin K., to General Motors Corporation. Vehicle passive occupant restraining belt arrangement. 3,680,883, 8-1-72, Cl. 280-150.05b.

Kepple, Orren N., to Creve Coeur Mfg., Co. Animal pen floor and method of forming. 3,633,548, 1-11-72, Cl. 119-28.

Kepple, Richard K.: *See—*
Hewko, Lubomyr O.; and Kepple, Richard K., 3,702,083.

Kepple, Richard K.; Hewko, Lubomyr O.; and Rogers, Arden W., to General Motors Corporation. Transmission. 3,702,084, 11-7-72, Cl. 74-752.00e.

Keppler, Arthur T., to Westinghouse Electric Corporation. Door for continuous-cleaning oven. 3,702,112, 11-7-72, Cl. 126-19.00r.

Keppler, Hans-Georg; and Wesslau, Hermann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of aqueous dispersions of polymers of olefinically unsaturated monomers. 3,666,704, 5-30-72, Cl. 260-29.6.

Keppler, Johann Georg: *See—*
Feenstra, Willem Hendrik; and Keppler, Johann Georg, 3,664,851.

Keppler, John E.; and Harris, Jesse W., to Tambo Manufacturing Company. Ground or road surface compacting machine. 3,683,763, 8-15-72, Cl. 94-50.00r.

Kerb, Ulrich: *See—*
Eder, Ulrich; Berndt, Hans-Detlef; Kerb, Ulrich; Wiechert, Rudolf; Zollner, Georg; Buchschacher, Paul; Furlenmeier, Andre; Furst, Andor; and Muller, Marcel, 3,661,897.

Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,651,100.

Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,655,650.

Kerb-Konus-Gesellschaft Dr. Carl Eibes & Co.: *See—*
Eibes, Carl B. H., 3,638,259.

Kerber, Elwyn W.: *See—*
Collins, Neil E.; Kerber, Elwyn W.; and Neville, Raymond R., 3,676,668.

Kerber, Heinz, to Marz, J. J., G.m.b.H., Firma. Means for connecting together the ends of bands of fabric. 3,653,097, 4-4-72, Cl. 24-33.

Kerber, Horst; Hohenschutz, Heinz; Rauch, Konrad; and Scheidmeir, Walter. Recovery of butanols plural stage distillation and alkali metal hydroxide treatment. 3,689,371, 9-5-72, Cl. 203-37.000.

Kerch, John, 1/2 to Coffman, Verlan D. Resonant rhombic type television antenna. 3,660,848, 5-2-72, Cl. 343-749.000.

Kercher, Robert L.; and Telfer, Dugald J., to Vapor Corporation. Burner for a heater. 3,653,796, 4-4-72, Cl. 431-328.

Kerchner, Charles F., Jr., to Kalglo Electronics Co., Inc. Electric heat control system. 3,649,853, 3-14-72, Cl. 307-310.

Kerecman, Albert J.: *See—*
Jacobs, Harold; Kerecman, Albert J.; and Schumacher, James D., 3,691,478.

Kerek, John: *See—*
Berry, Harry E., 3,670,929.

Kerek, Richard: *See—*
Berry, Harry E., 3,670,929.

Kerekes, Bela, to Egyesult Izzolampa es Villamossagi Reszvenytarsasag. Process of filling discharge tubes constructed without exhaust tube. 3,650,593, 3-21-72, Cl. 316-4.

Kerekes, Bela, to Egyesult Izzolampa Es Villamossagi Reszvenytarsasag. Oxide cathode for an electric discharge device. 3,693,007, 9-19-72, Cl. 313-318.000.

Kereluk, Karl: *See—*
Brendgord, Thomas; and Kereluk, Karl, 3,678,921.

Kereluk, Karl, to American Sterilizer Company. Sterilizing apparatus for continuously sterilizing articles by flames means. 3,642,012, 2-15-72, Cl. 134-83.

Kereluk, Karl; and Lloyd, Robert S., to American Sterilizer Company. Microbiological surface sampler. 3,684,660, 8-15-72, Cl. 195-139.000.

Kerestury, Richard D.: *See—*
Smirl, Richard L.; and Kerestury, Richard D., 3,690,736.

Keresztes, Imre A.: *See—*
Pedigo, Joel B.; Feldman, Julian; and Keresztes, Imre A., 3,666,766.

Kerfoot, Franklin W., Jr.: *See—*
Lieb, Nathaniel H.; and Kerfoot, Franklin W., Jr., 3,631,597.

Kerfoot, Oliver C.: *See—*
Feighner, George C.; Kerfoot, Oliver C.; Krehbiel, Delmar D.; and Nicks, Gene E., 3,661,780.

Kerfoot, Oliver C.; and Duchmann, George W., to Continental Oil Company. Purification of detergent alkylates. 3,703,559, 11-21-72, Cl. 260-674.00a.

Kerhan, Roberto Henderson. Sugar cane harvesters. 3,659,404, 5-2-72, Cl. 56-13.9.

Kerimov, Niyazi Abdulkasim Ogly: *See—*
Mozokhin, Nikolai G.; Maskenskov, Konstantin Mikhailovich; Kerimov, Niyazi Abdulkasim Ogly; Guseinova, Zuleikha Ismail Kyzy; Mekhtiev, Rafik Isrofil Ogly; and Evart, Garri Vol-demarovich, 3,682,146.

Kerkau, La Vern H. Valve actuator assembly. 3,679,172, 7-25-72, Cl. 251-229.000.

Kerkham, Algernon; and Eunson, Charles, to Dominion Bridge Company Limited. Positive opening and closing door and operating member for mine skips and the like. 3,632,002, 1-4-72, Cl. 214-740.

Kerkhoven, Frederik Johan; and Troost, Seyer, to Lever Brothers Company. Detergent slurry process. 3,639,288, 2-1-72, Cl. 252-135.

Kerley, James J., Jr.; and Schaller, Norman C., to United States of America, National Aeronautics and Space Administration. Apparatus for vibrational testing of articles. 3,699,807, 10-24-72, Cl. 73-71.600.

Kermath Manufacturing Corporation: *See—*
Moore, Robert M.; Lauterbach, Norman H.; and Armstrong, David P., 3,655,968.

Kern, Charles R. Transfer tool. 3,707,098, 12-26-72, Cl. 81-9.200.

- Kern, Dale W., to Riegel Textile Corporation. Simulated pre-folded diaper construction. 3,703,175, 11-21-72, Cl. 128-284.000.
- Kern, David W.: *See—*
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Brown, Perry H.; and Kernodle, Paul C., Jr., 3,648,930.
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- Kerpchar, Michael, to Ocean Metrics, Inc. Range gated image systems using pulsed illuminators. 3,689,156, 9-5-72, Cl. 356-5.000.
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Myer, Caleb H., 3,707,133.
Roy, Gerald L., 3,638,819.
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Lai, San-Cheng, 3,686,083.
Lai, San-Cheng, 3,696,011.
Rhees, Raymond C., 3,640,885.
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Baldwin, Roger A.; and Cheng, Ming T., 3,674,742.
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Koerner, Ernest L., Jr.; and Lucid, Michael F., 3,700,415.
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Lonadier, Frank D.; and Kershner, Carl J., 3,677,958.
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Owen, Kenneth; and Kershner, Stephen W., 3,666,902.
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Klenk, Ludwig; Kaempgen, Dieter; Kersting, Rolf; and Portmann, Herbert, 3,687,772.
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Holden, Kenneth G.; and Kerwin, James F., 3,644,527.
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Milani, Dean L.; and Kerwin, Richard G., 3,706,313.
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Goldrick, Michael Richard; Kerwin, Robert Eugene; and Skinner, John George, 3,674,492.
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Kerwit, Malcolm, 3,635,522.
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Coran, Aubert Y.; Kerwood, Joseph E.; and Trivette, Chester D., Jr., 3,681,356.
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Coran, Aubert Yaucher; and Kerwood, Joseph Edward, 3,686,169.
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Bateman, Coates F.; and Kes, William, 3,688,291.
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Yokoo, Makoto; Keshi, Akizo; Hashimoto, Norishige; and Nakahara, Shigenobu, 3,681,271.
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Keskari, Charlotte, 3,634,910.
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Widegren, Lars Harald; and Keskitalo, Tage Oskar, 3,643,920.
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Narayana, Munisamappa; Keskkula, Henno; and Mason, Jerry E., 3,639,522.
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Orth, Edward D.; and Kessel, Alvan A., 3,697,919.
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Macrander, Karl; and Kessel, Heinrich, 3,687,307.
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Kipnis, Aron Mikhailovich; and Kesselman, Stella Mikhailovna, 3,688,554.
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Alexander, George F.; Kessinger, Orville E., Jr.; Rediger, John R.; and Reinsma, Harold L., 3,695,737.
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Holle, Werner; and Kessler, Arthur, 3,670,636.

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Erickson, Allen M.; and Kessler, Bernard V., 3,697,182.
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Ackerman, Howard T.; and Kessler, Clarence W., 3,675,239.
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Ankeny, Jay H.; Foddy, Harold W.; and Kessler, Dayton F., 3,682,044.
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Andrews, Donald W.; Kessler, Eugene L.; and Newton, Roland A., 3,650,337.
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Wagner, Gerhard; Kroll, Friedrich; Gleich, Horst; and Kessler, George, 3,661,114.
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Stratton, Jerry L.; and Kessler, George W., 3,637,319.
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Findewirth, Wolfgang; Irmscher, Helmut; Kessler, Gunther; and Leubner, Gunther, 3,651,669.
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Aibrecht, Rudolf; Kessler, Hans-Joachim; and Schroder, Eberhard, 3,660,385.
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- Philippson, Rainer; Hauser, Helmut; Gibian, Heinz; Kaspar, Emanuel; and Kessler, Hans-Joachim, 3,674,815.
- Kessler, Harold D.: See—
Bomberger, Howard B., Jr.; and Kessler, Harold D., 3,646,175.
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Moore, William H.; and Kessler, Harry H., 3,663,214.
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Behn, Reinhard; Gottlob, Heinrich; Haid, Hans; Hoyler, Gerhard; and Kessler, Hartmut, 3,670,378.
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Hamontre, Hugh C.; and Kessler, Hugh M. D., 3,631,835.
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- Kessler, Milton. Extensible perforate floor mat and friction device. 3,703,059, 11-21-72, Cl. 52-177.000.
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Bella, David; and Kessler, Seymour, 3,652,097.
- Kessler, Warren W. Traveling chamber internal combustion engine. 3,696,797, 10-10-72, Cl. 123-8.090.
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Rossi, Alberto; Walter, Armin; Kessler, Werner; and Iselin, Beat, 3,655,884.
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- Kesting, Lorenz. Apparatus for manufacture of concrete buildings. 3,680,824, 8-1-72, Cl. 249-13.000.
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Bohm, Dieter, 3,632,518.
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Chizinsky, George, 3,681,220.
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Schonewald, Roger L.; and Kevorkian, Victor, 3,648,436.
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Cooper, Hugh; Whitehouse, Dale S.; and Womble, George E., 3,669,193.
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- Womble, George E., 3,640,348.
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Alexander, John William, 3,707,447.
- Du Rose, Arthur H.; and Stern, Robert L., 3,634,210.
- Garvey, Bruce J., 3,645,861.
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Krass, Alvin, 3,641,686.
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Seng, Florin; Key, Kurt; and Metzger, Karl Georg, 3,682,906.
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Semour, Norman F., 3,667,787.
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Sanders, Ray W.; Keyes, Neil T.; and Quan, William, 3,665,405.
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Sterns, Lorraine E.; and Howard, Arthur G., 3,664,458.
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Crabtree, Kenneth L., 3,647,132.
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Kusich, Robert A., 3,652,807.
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Clayton, William J.; and Keyser, Charles D., 3,682,028.
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Glickman, Leon A., 3,635,246.
- Keystone Columbia, Inc.: See—
Rauhauser, Warren C., 3,636,984.
- Keystone Consolidated Industries, Inc.: See—
Adamski, Vincent Wallace; and Moore, Ernest Beatty, 3,667,818.
- Anderson, Ralph F., 3,656,205.
- Coe, William H., 3,638,277.
- Glass, Dwight W., 3,661,001.
- Larson, Robert S.; and Stochke, Joseph, 3,661,410.
- Meinhardt, James R., 3,646,633.
- Ostrom, Martin E., 3,639,942.
- Roser, Kenneth L., 3,648,560.
- Schill, John M., 3,674,329.
- Walters, Russell W.; and Brattland, Richard M., 3,648,492.
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Karpol, Zvi Y., 3,665,826.
- Nesson, Israel; Palmer, Robert G.; and Zausner, Sam, 3,657,980.
- Keystone Engineering Company: See—
Boeck, Gunther A., 3,700,301.
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Hawthorne, Vaughn T., 3,682,324.
- Hawthorne, Vaughn T., 3,707,306.
- Nester, Francis M., 3,707,126.
- Keystone Lamp Manufacturing Corporation: See—
Hudson, Robert, 3,642,310.
- Keystone Micro-Scan, Inc., mesne: See—
Griswold, Augustus W.; and Haritonoff, Boris W., 3,698,275.
- Keystone Valve Corporation: See—
McNeely, Branch M., Jr., 3,680,833.
- Keystone-Seneca Wire Cloth Company: See—
Krebs, William B., 3,672,638.
- Keyworth, Donald A.: See—
Walker, David G.; and Keyworth, Donald A., 3,647,843.
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- Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,720.
- Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Burtsev, Pavel Semenovich; Yanchevsky, Kazimir Stanislavovich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny Moiseevich; and Khaidurov, Leonid Konstantinovich, 3,656,810.
- Khaidurov, Leonid Konstantinovich: *See—*
- Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,719.
- Khaja, Farees U.: *See—*
- Unger, John J.; Augustine, Robert J.; and Khaja, Farees U., 3,682,089.
- Khaja, Farees Uddin: *See—*
- Nauheimer, Robert R.; and Khaja, Farees Uddin, 3,669,694.
- Khamis, Joseph T.: *See—*
- Ravve, Abraham; and Khamis, Joseph T., 3,671,295.
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- Sweeney, Richard F.; Price, Alson K.; and Khan, Aziz U., 3,644,513.
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- Sweeney, Richard F.; Khan, Aziz Urrehman; Price, Alson K.; Jones, Edward Stephen; and Otto, Julian A., 3,674,800.
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- Controni, Guido; Khan, Waheed N.; Patrick, James R.; and Ross, Sydney, 3,649,460.
- Khanchas, Vladislav Fedorovich: *See—*
- Ivchenko, Georgy Semenovich; Berestovoi, Anatoly Mikhailovich; Khanchas, Vladislav Fedorovich; and Nikodimov, Anatoly Pavlovich, 3,669,317.
- Kharasch, Arnold S.: *See—*
- Dicus, Allen B., Jr.; Kharasch, Arnold S.; and Lavin, Sheldon, 3,682,063.
- Kharitonov, Gennady Grigorievich; Nebytov, Anatoly Mitrofanovich; Doroshin, Sergei Mikhailovich; and Alimova, Mariana Sergeevna, to Vsesojuzny Nauchno-Issledovatel'skiy Institut po Stroitel'stvu Magistralnykh Truboprovodov Okruzhnoi praezd. Plant for applying solidifying plastic masses. 3,704,865, 12-5-72, Cl. 259-108.00a.
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- Kheifets, Rafail Efimovich: *See—*
- Dichinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosilovich; Anikanov, Nikolai Ivanovich; Grachev, Leonid Pavlovich; and Frumkin, Mikhail Evseevich, 3,702,186.
- Duckhinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosilovich; Anikanov, Nikolai Ivanovich; and Grachev, Leonid Pavlovich, 3,683,586.
- Khelghatian, Habet M.: *See—*
- Poppe, Wassily; and Khelghatian, Habet M., 3,632,393.
- Poppe, Wassily; Khelghatian, Habet M.; and Fitzpatrick, James E., 3,655,433.
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- Poppe, Wassily; and Khelghatian, Habet M., 3,696,665.
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- Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gel-fenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Polyakov, Boris Nikolaevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich, 3,688,833.
- Khirdzhev, Sergei Grigorievich: *See—*
- Efimov, Leonid Alexandrovich; Shtin, Lev Mikhailovich; Sinit-sky, Vladimir Mikhailovich; Khirdzhev, Sergei Grigorievich; Pylaikin, Petr Alexeevich; Satovskaya, Ljudmila Sergeevna; Grebnev, Nikolai Feodosovich; Rasseikin, Mikhail Grigorievich; Kalugin, Konsantin Yakovlevich; Somov, Boris Stepanovich; and Baranchikov, Vladimir Mikhailovich, 3,678,728.
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- Shtin, Lev Mikhailovich; Grebnev, Nikolai Feodosovich; Satovskaya, Ljudmila Sergeevna; Rasseikin, Mikhail Grigorievich; Khirdzhev, Sergei Grigorievich; Perevozchikov, Evgeny Titovich; Zagulina, Sofia Stepanovna; Duda, Vladimir Nikolaevich; and Karasev, Mihail Andreevich, 3,664,168.
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- Zykov, Vladimir Pavlovich; Panov, Alexei Alexandrovich; Prud-nikov, Pavel Alexeevich; Khlopov, Mikhail Ivanovich; and Shlyapnikov, Alexei Dmitrievich, 3,675,087.
- Khmelnitsky, Julius Lazarevich: *See—*
- Nesterovsky, Vsevolod Vladimirovich; Khmelnitsky, Julius Lazarevich; Karzhev, Vladimir Ivanovich; Silchenko, Ekaterina Ivanovna; Goncharova, Nina Vasilievna; Svirina, Valentina Petrovna; Maikova, Margarita Viktorovna; and Murashkina, Marfa Markovna, 3,649,96.
- Khodosh, Vladimir Alexandrovich: *See—*
- Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,719.
- Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,720.
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- Rheineck, Alfred E.; Nielsen, Paul L.; and Khoe, Teng H., 3,676,384.
- Khokhlova, Nina Dmitrievna: *See—*
- Voronin, Grigory Ivanovich; Vzorov, Mikhail Ivanovich; Karaski, Ilya Lvovich; Lyagushkin, Jury Dmitrievich; Pereplechikov, Leonid Yakovlevich; Khokhlova, Nina Dmitrievna; and Petrov, Jury Mikhailovich, 3,650,197.
- Kholodova, Galina Vasilievna: *See—*
- Kulbakh, Valter Osvaldovich; Kholodova, Galina Vasilievna; and Sveshnikov, Jury Fedorovich, 3,683,071.
- Kholstova, Nonna Alexandrovna: *See—*
- Lutchenkov, Anatoly Matveevich; Shekhodanov, Mikhail Petrovich; Siyanov, Sergei Alexandrovich; Korovin, Ivan Stepanovich; Kholstova, Nonna Alexandrovna; Kreptseva, Valentina Nikolaevna; and Leskovskaya, Nina Petrovna, 3,671,125.
- Khomenko, Vasily Iosipovich: *See—*
- Koshkin, Lev Nikolaevich; Zazhigin, Alexei Sergeevich; Tany-gin, Vitaly Matveevich; Chagin, Valentin Petrovich; and Khomenko, Vasily Iosipovich, 3,631,965.
- Khomyakov, Viktor Stepanovich: *See—*
- Niforov, Vladimir Pavlovich; Zaitsev, Vasily Nikolaevich; Kho-myakov, Viktor Stepanovich; Kil, Ilya Genrikhovich; and Tsybukov, Igor Kirillovich, 3,702,815.
- Khoury, Amin J.: *See—*
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- Sung, Fu-Tien, 3,696,712.
- Kidde, Walter, Constructors Incorporated: *See—*
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- Kidder, Ray E.: *See—*
- Gregg, David W.; Kidder, Ray E.; and Krawetz, Barton, 3,673,513.
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- Baker, Clifford Aubrey; and Kiefel, Morris Charles, 3,632,270.
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- Diery, Helmut; Kiefer, Bernhard; Rittner, Siegfert; and Seidel, Manfred, 3,671,308.
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- Drisko, Richard W.; and Kiefer, Earl J., 3,635,813.
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- Illing, Henry, 3,703,273.
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- Paynter, William D.; and Kielsmeier, Elwood W.: 3,634,102.
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- Hochschorner, Paul; and Kielwein, Fritz, 3,645,326.
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- Schnegg, Robert; Pelousec, Herbert; Dippolhofer, Robert; Wiegrefte, Wolfgang; Voezl, Hans-Georg; and Kienast, Gerhard, 3,674,747.
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- Petit, George S.; and Kienberger, Charles A.: 3,697,441.
- Kienders, Henricus A.: *See—*
- DeRooy, Michael A.; Logemann, Johan D.; and Kienders, Henricus A.: 3,691,729.
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- Hellar, Martin W.; and Kiener, Michael A.: 3,701,673.
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- Bertrang, Hermann; and Spormann, Horst, 3,636,790.
- Kaiser, Bernhard, 3,666,067.
- Kelch, Heinz, 3,667,307.
- Kelch, Heinz; and Schuh, Eduard, 3,698,627.
- Kelch, Heinz, 3,699,557.
- Rahn, Horst, 3,679,922.
- Schuh, Eduard, 3,675,504.
- Spauszuz, Siegfried, 3,655,948.
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- Rosenthal, Rudolph; and Kieras, Joseph A.: 3,636,051.
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- Mehrhof, Werner; Irmischer, Klaus; Hecht-Lucari, Giorgio; Kraft, Hans-Gunther; and Kieser, Hartmut, 3,639,599.
- Kieserling, Th., & Albrecht: *See—*
- Brauer, Hans, 3,654,789.
- Goecke, Alfons, 3,659,531.
- Krejan, Friedrich; Beese, Ferdinand; Hufner, Hans; Riedel, Franz; and Holzmann, Rainer, 3,665,649.
- Kieserling, Th., & Albrecht Werkzeugmaschinenfabrik: *See—*
- Behme, Henning, 3,700,833.
- Kiesler, Allan J.: *See—*
- Pagnotta, Gaspar; and Kiesler, Allan J.: 3,639,722.
- Kiesling, Georges: *See—*
- Jenny, Hanns; and Kiesling, Georges, 3,707,395.
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- Haberhauser, Karl; Jutzi, Manfred; and Kiess, Reinhold, 3,700,513.
- Kiess, Ronald J.: *See—*
- Scott, Kelley E., Jr.; Kemper, Daryl M.; Grove, Lloyd E.; and Kiess, Ronald J.: 3,656,217.
- Kiessling, Karl Hans Fritz: *See—*
- Delin, Per Staffan; Kiessling, Karl Hans Fritz; Thelin, Karl Hugo; and Lars, Solve, 3,684,658.
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- Boley, Robert D.; Meyer, Charles F.; Kiessling, Rudolf H.; and Paape, Kenneth L.: 3,683,301.
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- Carl, David G.; Kietzman, Richard C.; and Knapp, William A.: 3,631,837.
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- Keating, James J.: 3,688,510.
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- Mohrman, Robert K.; Kifer, Paul E.; and Oborsh, Edward V.: 3,679,429.
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- Struger, Odo J.; Kiffmeyer, William W.; and Shaum, Loren E.: 3,646,360.
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- Kokubo, Ryo; Takakuwa, Yasuo; Shiroishi, Akihiro; and Kihara, Mitsuji, 3,700,672.
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- Ohno, Masao; and Kijima, Katsumi, 3,671,277.
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- Ichishima, Eiji; and Yoshida, Fumihiko, 3,645,850.
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- Yokotsuka, Tamotsu; and Ishii, Shigetaka, 3,666,487.
- Yokotsuka, Tamotsu; Hashimoto, Hikotaka; and Iwaasa, Takashi, 3,674,644.
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- Shimosawa, Ron, 3,653,318.
- Shimosawa, Ron, 3,706,471.
- Kikuchi, Ichiro: *See—*
- Fujii, Koichi; Sakai, Tomoo; and Kikuchi, Ichiro, 3,694,170.
- Kikuchi, Junjiro: *See—*
- Nozawa, Yoshikuni; Ishikawa, Mitsuo; and Kikuchi, Junjiro, 3,669,457.
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- Hall, Sean Geoffrey, 3,663,694.
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- Anderson, Aldin R.; Jennings, John D.; and Killerby, Walter E., 3,696,986.
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- Mutz, Wolfgang; Killgus, Theodor; and Fischer, Artur, 3,643,865.
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- Meissner, Konrad E.; McClelland, Etheridge R.; and Kilner, George E., 3,643,717.
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- Weiner, Leon; Kilpatrick, John E.; and Spiger, Robert J., 3,679,877.
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- Judge, John R.; and Kilpatrick, Robert G., 3,705,302.
- Kilpatrick, Wallace D.: *See—*
- Cohen, Martin J.; Carroll, David I.; Wernlund, Roger F.; and Kilpatrick, Wallace D., 3,699,333.
- Kilpper, Gerhard: *See—*
- Schecker, Hans-Georg; Koehler, Waldemar; Armbrust, Herbert; Sturm, Hans Juergen; and Kilpper, Gerhard, 3,686,339.
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- Schlauf, Floyd E.; Anderson, Albert L.; Kilroy, Eugene J., Jr.; and Flicker, Alwyn, 3,665,610.
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- Osborne, Denis A. N.; Haines, Robert C.; and Kilshaw, John A., 3,703,824.
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- Kraus, Bernhard J.; and Kim, Dae Sik, 3,641,767.
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- Dobo, Emerick J. Cary; Kim, Don W.; and Mallonice, William C., 3,705,068.
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- Santilli, Arthur A.; and Kim, Dong H., 3,635,965.
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- Santilli, Arthur A.; and Kim, Havertown Dong H., 3,704,242.
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- Grove, Marvin H.; Kim, Kee W.; and Van Arsdale, Lyle R., 3,641,542.
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- Gump, J. R.; Kim, Tai K.; and Long, Robert E., Jr., 3,702,233.
- Kim, Yang Joo: *See—*
- Kearns, Tommy Carter; and Kim, Yang Joo, 3,695,835.
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- Kubanek, Anne-Marie Margaretha; and Kim, Young Chul, 3,692,775.
- Kim, Young K.: *See—*
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- Kim, Yungil: *See—*
- Auletta, Lucien V.; Kim, Yungil; and Simon, Andrew M., 3,663,415.
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- Tera, Shiro; Suzuki, Toshio; Hasegawa, Yoshihumi; Horiguchi, Shojiro; Nakamura, Michiei; Kimata, Shizuo; and Suzuki, Tadanobu, 3,671,476.
- Kimball, Bruce Allan: *See—*
- Horn, Harold Edwin; Kimball, Bruce Allan; and Godzicki, Martin Michael, 3,676,155.
- Kimball, Carl P.: *See—*
- Smith, Edward C.; and Kimball, Carl P., 3,631,709.
- Kimball, Jack E.: *See—*
- Hendry, James W.; Kimball, Jack E.; and Chin, Charles L. D., 3,687,582.
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- Hoffman, Leonard M.; and Kimball, John B., 3,672,605.
- Kimball, Lawrence W.: *See—*
- Schreurs, Willy P.; and Kimball, Lawrence W., 3,676,176.
- Kimball, Philip D.: *See—*
- Zinniel, Francis R.; Blome, Eugene R.; and Kimball, Philip D., 3,637,639.
- Kimball Piano & Organ Co.: *See—*
- Slaats, Mathew A.; and Blessinger, James E., 3,681,507.
- Kimball, Stephen F.: *See—*
- Palmer, Lewis H., III; and Kimball, Stephen F., 3,634,722.
- Kimball, Stephen F., to Sylvania Electric Products, Inc. Tungsten halogen lamp having improved seal of molybdenum aluminide. 3,668,391, 6-6-72, Cl. 313-318.000.
- Kimball, William H.: *See—*
- Pine, Wilson C.; Westernen, Herbert W.; and Kimball, William H., 3,642,263.
- Kimber, Anthony B.: *See—*
- Farrow, Roger M.; Kimber, Anthony B.; Cole, John Barrington; Miles, John Walter; and Griefiths, Graham Ernest, 3,698,562.
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- Eberly, Paul E., Jr.; and Kimberlin, Charles N., Jr., 3,641,177.
- Kimberlin, Charles N., Jr.; and Gladrow, Elroy M., to Esso Research and Engineering Company. Hydrocarbon conversion catalyst. 3,686,121, 8-22-72, Cl. 252-455.000.
- Kimberlin, Charles Newton, Jr.: *See—*
- Parker, Paul Thomas; and Kimberlin, Charles Newton, Jr., 3,636,129.
- Kimberlin, Dan R.: *See—*
- Grandel, Leonard F.; Schluckebier, Floyd A.; and Kimberlin, Dan R., 3,643,981.
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- Appel, David W., 3,652,392.
- Banks, Charles T., 3,637,146.
- Bates, John D., 3,645,263.
- Bates, John D.; and Olson, Virginia A., 3,674,029.
- Benevento, Joseph, 3,636,567.
- Benevento, Joseph, 3,636,953.
- Bernardin, Leo J., 3,658,790.
- Bernardin, Leo J., 3,691,154.
- Brock, Robert J.; and Hansen, Paul B., 3,663,344.
- Brock, Robert J.; and Thomas, Gordon D., 3,695,985.
- Burger, William H., 3,663,962.
- Burger, William H., 3,682,734.
- Burger, William H.; and Rightor, Edward, Jr., 3,685,818.
- Burger, William H., 3,689,349.
- Burger, William H., 3,694,815.
- Capell, A. Earl; and Wilson, Leroy E., 3,679,515.
- Champaigne, John F., Jr., 3,635,221.
- Champaigne, John F., Jr., 3,651,809.
- Champaigne, John F., Jr., 3,665,923.
- Condon, Eugene H., 3,652,374.
- Condon, Eugene H.; Robinson, James E.; and Wills, James H., 3,666,594.
- Connor, James J. O., 3,707,436.
- Crockford, Joseph R., 3,643,661.
- Davis, Leonard P.; and Elliott, Robert M., 3,685,930.
- deVos, John Wallace, 3,652,383.
- Donnelly, Harold F., 3,668,050.
- Duchane, David V., 3,654,928.
- Duchane, David V., 3,689,314.
- Duchane, David V., 3,692,725.
- Dunning, Charles E., 3,692,622.
- Endres, Dan D., 3,695,260.
- Evans, Ernest C., 3,634,259.
- Evans, Ernest C., 3,669,252.
- Goldbeck, Leroy J.; and Van Den Elzen, Norbert L., 3,655,422.
- Grangaard, Donald H., 3,650,887.
- Green, Angelica G., 3,677,266.
- Hammond, Philip G., 3,645,060.
- Hanke, David E., 3,699,962.
- Helminen, Toivo A., 3,668,771.
- Henderson, Charles A., 3,659,487.
- Hrubecky, Frederick J., 3,639,915.
- Hubin, Anthony S.; and Hirschy, Harlan W., 3,686,050.
- Ittis, Charles O., 3,684,603.
- Knauf, Nicholas T., 3,677,861.
- Krake, Kenneth V., 3,691,010.
- Krebs, Kay E., 3,667,458.
- Mattes, William J., 3,666,608.
- Mattes, William J., 3,674,617.

Meitner, Gary H., 3,671,303.
 Nelson, Howard N., 3,700,138.
 Nissen, Walter D.; and Hammond, Philip G., 3,679,094.
 Nissen, Walter D.; and Hammond, Philip G., 3,679,095.
 Olson, Virginia A.; and Townsend, Bruce A., 3,683,912.
 Palenske, Carlton L., 3,638,252.
 Palenske, Carlton L.; and Marks, Lawrence E., 3,681,795.
 Peterson, Le Roy L., 3,652,390.
 Planner, Thomas H., 3,657,856.
 Robinson, James E., 3,654,020.
 Roeder, Robert J., 3,672,371.
 Roeder, Robert J., 3,674,595.
 Rope, Barry S.; and Huffaker, James E., 3,683,486.
 Sager, Karl E.; and Nelson, Howard N., 3,660,186.
 Sager, Karl E., 3,663,330.
 Sager, Karl E., 3,677,854.
 Sager, Karl E., 3,684,604.
 Schrading, Mark S.; and Winters, Terry L., 3,669,106.
 Schwarz, Eckhard C. A., 3,644,139.
 Schwarz, Eckhard C. A., 3,661,627.
 Schwarz, Eckhard C. A., 3,661,860.
 Schwarz, Eckhard C. A., 3,661,866.
 Schwarz, Eckhard C. A., 3,694,399.
 Schwarz, Eckhard C. A., 3,697,367.
 Sheppard, Milton R.; and Henderson, William Leland, 3,702,610.
 Skora, Robert F., 3,665,922.
 Sokolowski, Robert C., 3,677,858.
 Sorenson, Wayne P., 3,694,927.
 Spiegelberg, Harry L.; Timmons, Terry K.; and Stumpf, Robert J., 3,689,353.
 Stieg, Bernard O., 3,681,904.
 Stumpf, Paul R., 3,638,253.
 Stumpf, Robert J., 3,665,921.
 Stumpf, Robert J., 3,668,054.
 Stumpf, Robert J., 3,687,754.
 Stumpf, Robert J.; and Mattes, William J., 3,687,796.
 Stumpf, Robert J., 3,694,867.
 Stumpf, Robert J., 3,705,063.
 Stumpf, Robert J., 3,705,065.
 Thomas, Gordon D., 3,650,882.
 Truman, Charles L., 3,681,785.
 Voss, Joseph A., 3,667,465.
 Voss, Joseph A.; and Johnson, Carl W., 3,683,759.
 Voss, Joseph A., 3,683,915.
 Voss, Joseph A.; and Johnson, Carl W. (said Voss assor. to), 3,695,970.
 Werner, Edward E.; and Wollangk, Edward G., 3,674,026.
 Werner, Edward E., 3,688,771.
 Wideman, Ronald H., 3,687,797.
 Wolf, Ernest Robert, 3,705,476.
 Kimble, Floyd E.: *See—*
 Kimble, Floyd E.; and Buchsieb, Richard H. (said Buchsieb assor. of), 3,650,484.
 Kimble, Floyd E.; and Buchsieb, Richard H. (said Buchsieb assor. of), 3,701,485.
 Kimble, Floyd E.; and Buchsieb, Richard H., said Buchsieb assor. of 4/5% to Kimble, Floyd E. Rotor construction for impact crusher. 3,650,484, 3-21-72, Cl. 241-192.
 Kimble, Floyd E.; and Buchsieb, Richard H., said Buchsieb assor. of 4/5 to Kimble, Floyd E. Rotor construction for impact crusher. 3,701,485, 10-31-72, Cl. 241-32,000.
 Kimble, Quinton. Golfer's stance gauge. 3,658,344, 4-25-72, Cl. 273-187.
 Kimbrell, Sol B.: *See—*
 Heilmayr, Peter F.; Kimbrell, Sol B.; and Giuffre, Joseph C., 3,674,388.
 Kimbrell, Sol B., to Certain-Teed Products Corporation. Apparatus for machine forming extruded plastic siding. 3,656,385, 4-18-72, Cl. 83-290.
 Kimbrough, Laurence B., to RCA Corporation. Method of mounting a mass in a cathode-ray tube using retractable spacing units. 3,672,014, 6-27-72, Cl. 29-25,150.
 Kimbrough, Laurence B., to RCA Corporation. Apparatus and method for applying a bead of sealing material to a sealing surface of a cathode-ray tube. 3,701,674, 10-31-72, Cl. 117-43,000.
 Kimenis, Agris Adolfovich: *See—*
 Giller, Solomon Aronovich; Sokolov, Georgy Petrovich; Kimenis, Agris Adolfovich; and Klusha, Via Ekabovna, 3,661,929.
 Kimima, Noriaki: *See—*
 Oda, Masao; and Kimima, Noriaki, 3,684,104.
 Kimm, Wolfgang: *See—*
 Blattry, Hans; and Kimm, Wolfgang, 3,656,773.
 Kimmel, Albert L., to Butler Manufacturing Company. Texture coating composition of polyvinyl acetate emulsion, asbestos and Portland cement. 3,677,988, 7-18-72, Cl. 260-29,60s.
 Kimmel, Cleve C.; and Moll, John H., to Parker-Hannifin Corporation. Transfer of cryogenic liquids. 3,633,372, 1-11-72, Cl. 62-49.

Kimmel, Ellsworth E.; and Young, Austin H., to Staley, A. E., Manufacturing Company. Multi-ply packaging material of polyethylene, amylose and paper. 3,661,697, 5-9-72, Cl. 161-250.
 Kimmel, Ray D., to Raymond, Lcc, Organization, Inc., The. Revolving gun cabinet. 3,685,661, 8-22-72, Cl. 211-64,000.
 Kimmen, Edward: *See—*
 Dexter, William R.; Jahnke, William R.; and Kimmen, Edward, 3,684,304.
 Kimmich, Gordon R.: *See—*
 Brawner, William H.; Gunsalus, Claude A.; and Rockwell, Lowell K., 3,698,337.
 Kimoto, Jitsumi: *See—*
 Ueda, Koza; Kimoto, Jitsumi; and Moritake, Mitsuru, 3,692,663.
 Kimoto, Koji; and Yamagisawa, Yoshinari, to Toyo Kotsu Industries, Incorporated. Process and apparatus for removing volatile substances from viscous compositions. 3,694,535, 9-26-72, Cl. 264-102,000.
 Kimpel, Frank A.: *See—*
 Day, Arthur Reginald, III; and Kimpel, Frank A., 3,633,073.
 Kimpel, Frank A.; and Markley, William F., to Borg-Warner Corporation. Icemaker protection system. 3,650,121, 3-21-72, Cl. 62-136.
 Kimpton, Frederick James: *See—*
 Cleaver, John Stephen; Guilford, Peter; Kimpton, Frederick James; Page, Thomas John; and Steinberg, Norman Richard, 3,667,119.
 Cleaver, John Stephen; Guilford, Peter; Kimpton, Frederick James; Page, Thomas John; and Steinberg, Norman Richard, 3,688,397.
 Kimtec Incorporated: *See—*
 Smith, William G.; and Friant, Elias S., Jr., 3,656,840.
 Kimura, Akihiro, to Matsushita Electronics Corporation. Schottky barrier semiconductor device. 3,636,417, 1-18-72, Cl. 317-234.
 Kimura, Akihiro, to Matsushita Electronics Corporation. Semiconductor device and method of making same. 3,642,528, 2-15-72, Cl. 117-212.
 Kimura, Akio: *See—*
 Tsuchiya, Hiroshi; Horiuchi, Fukashi; Mukai, Kunio; Kimura, Akio; and Nishizawa, Yoshihiko, 3,636,144.
 Tsuchiya, Hiroshi; Kunio, Nishinomiya-Shi; Kimura, Akio; Kawano, Suminori; Fujimoto, Keimei; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Tanaka, Katsutoshi; Oishi, Tadashi; and Takeda, Hisami, 3,670,057.
 Kimura, Atsuyoshi: *See—*
 Ito, Tetsuro; Kato, Goshi; and Kimura, Atsuyoshi, 3,634,074.
 Kimura, Chikara, to Hitachi, Ltd. Specimen holder transfer mechanism for an electron microscope. 3,679,900, 7-25-72, Cl. 250-49,50b.
 Kimura, Eiichi: *See—*
 Abe, Zenmon; Suzuki, Takaji; Tsuneoka, Masayuki; Kimura, Eiichi; Akazome, Teizo; Obayashi, Kanji; and Kasai, Gengo, 3,658,055.
 Kimura, Fumio: *See—*
 Irie, Yoshihiko; and Kimura, Fumio, 3,670,930.
 Nishiyama, Ryuzo; Fujikawa, Kanichi; Yokomichi, Isao; and Kimura, Fumio, 3,637,720.
 Kimura, Fumiyuki: *See—*
 Hirooka, Masaaki; Yasui, Seimei; Mashita, Kentaro; and Kimura, Fumiyuki, 3,700,648.
 Kimura, Hajime: *See—*
 Matsushita, Kazuo; Koizumi, Ken; Togo, Hidetoshi; and Kimura, Hajime, 3,657,586.
 Kimura, Harutaka: *See—*
 Iwasaki, Koichiro; Yamaguchi, Kazuo; Kimura, Harutaka; Hasuo, Masayoshi; and Tanaka, Toru, 3,674,764.
 Kimura, Hiroshi: *See—*
 Kawabe, Ushio; Kimura, Hiroshi; and Doi, Toshio, 3,662,689.
 Kawabe, Ushio; Kimura, Hiroshi; Tomeoku, Hiroshi; and Doi, Toshio, 3,673,444.
 Kimura, Hiroshi: *See—*
 Maeda, Yutaka; Kimura, Hiroshi; Koshimo, Akio; Kanzaki, Nagamasa; Yasuzuka, Katsumi; and Furukawa, Yoshinobu, 3,643,412.
 Saito, Norio; and Kimura, Hiroshi, 3,703,588.
 Tsuruta, Motohiro; Kimura, Hiroshi; Koshimo, Akio; Nara, Hirohisa; Goto, Tokuju; Amemiya, Kunio; and Matsuka, Hideki, 3,637,427.
 Kimura, Hiroshi; Nambu, Takeshi; Inoue, Kiyoshi; Imahori, Yoshiyuki; Yamaguchi, Kenjo; and Umeno, Kyoza. Curved projection screens. 3,692,384, 9-19-72, Cl. 350-119,000.
 Kimura, Hiroshi; Arimoto, Heiji; Nara, Hirohisa; Miyamatsu, Tsugio; and Kitajima, Mitsuo, to Unitaka Ltd. Yarn carrier for a weaving machine. 3,695,306, 10-3-72, Cl. 139-125,000.
 Kimura, Hiroyuki: *See—*
 Morio, Minoru; and Kimura, Hiroyuki, 3,699,240.
 Kimura, Ichiro: *See—*
 Kado, Masaru; Kimura, Ichiro; and Sugiyama, Hironari, 3,671,216.
 Nagata, Takeo; Takasaka, Masahiro; and Kimura, Ichiro, 3,698,414.

Kimura, Ichiro; Sugiyama, Hironari; and Kado, Masaru, to Kumiai Chemical Industry Co., Ltd. Herbicidal composition. 3,682,616, 8-8-72, Cl. 71-93,000.
 Kimura, Isao; Ogata, Fumimaro; and Ohtomo, Koichiro, to Kanegafuchi Boseki Kabushiki Kaisha. Polyamide with aliphatic sulfonic acid containing antistatic agents. 3,637,900, 1-25-72, Cl. 260-830.
 Kimura, Isao; and Habata, Hidetsugu, to Kanegafuchi Boseki Kabushiki Kaisha. Method of producing carbon fibers. 3,639,953, 2-8-72, Cl. 23-209,1.
 Kimura, Isao; Ogata, Fumimaro; and Ohtomo, Koichiro, to Kanegafuchi Boseki Kabushiki Kaisha. Polyester fibers with aliphatic sulphonic acid containing antistatic agents. 3,702,350, 11-7-72, Cl. 260-835,000.
 Kimura, Kaoru: *See—*
 Ito, Hiroo; and Kimura, Kaoru, 3,639,461.
 Kimura, Katsuo: *See—*
 Tanaka, Eiachiro; Fukuda, Takeji; Yamaji, Kenkichi; Miyake, Yasuhiko; Ota, Hiroshi; and Kimura, Katsuo, 3,646,796.
 Kimura, Katuhiro: *See—*
 Fukushima, Masakazu; and Kimura, Katuhiro, 3,639,797.
 Kimura, Katuhiro; and Kaneko, Yoichi, to Hitachi, Ltd. Reentrant cavity resonator solid state microwave oscillator. 3,639,856, 2-1-72, Cl. 331-96.
 Kimura, Kazuhiko: *See—*
 Ikemoto, Masahiko; Ito, Kiyoshi; Kimura, Kazuhiko; and Nakanishi, Teruo, 3,662,036.
 Kimura, Kazuo: *See—*
 Tanaka, Katsunobu; Ohshima, Kazuo; Kimura, Kazuo; and Yamamoto, Masaki, 3,639,210.
 Tanaka, Katsunobu; Kimura, Kazuo; and Yamaguchi, Ken, 3,642,576.
 Tanaka, Katsunobu; and Kimura, Kazuo, 3,652,396.
 Tanaka, Katsunobu; and Kimura, Kazuo, 3,655,510.
 Tanaka, Katsunobu; Kimura, Kazuo; and Yamaguchi, Ken, 3,691,012.
 Kimura, Keiichi. Method of manufacturing a heat exchanger. 3,644,975, 2-29-72, Cl. 29-157,3.
 Kimura, Kenji; Watando, Kousaku; and Kadota, Osamu, to Nippon Kokan Kabushiki Kaisha. Apparatus for compressing scrap into a block and conveying the same. 3,665,848, 5-30-72, Cl. 100-218,000.
 Kimura, Kenju, to Shiba Electric Co., Ltd. Automatic frequency control system with memory circuit for increasing control range. 3,657,665, 4-18-72, Cl. 331-17.
 Kimura, Kuninobu: *See—*
 Sadakata, Kazuo; Sasaki, Minoru; Hirose, Masahiro; Nakamura, Yasuo; Mikida, Yukio; Ito, Kazuo; and Kimura, Kuninobu, 3,639,513.
 Kimura, Morio: *See—*
 Goto, Masahiro; Noto, Tetsuo; Kato, Nitsuya; Kimura, Morio; and Watanabe, Tadashi, 3,684,752.
 Kozu, Haruo; Kimura, Morio; Watanabe, Tadashi; Naozumi, Hiratsuka; and Yoshida, Michio, 3,655,596.
 Kimura, Morio; Watanabe, Tadashi; Murata, Koichiro; and Iwasawa, Naozumi, to Kansai Paint Company Limited. Organic solvent or water soluble vinyl-graft resin. 3,634,351, 1-11-72, Cl. 260-22.
 Kimura, Mutsumi: *See—*
 Miyama, Hajime; Harumiya, Norihiro; Nakao, Mituru; Kimura, Mutsumi; Ito, Isao; and Ohgushi, Katunori, 3,682,800.
 Kimura, Naokazu, to Hitachi, Ltd. Remote supervisory system. 3,643,222, 2-15-72, Cl. 340-172,5.
 Kimura, Osamu: *See—*
 Sagawa, Seiji; Kunihiro, Haruo; Kimura, Osamu; and Inoue, Masatoshi, 3,681,371.
 Sagawa, Seiji; Kunihiro, Haruo; Kimura, Osamu; Numata, Kenichiro; and Inoue, Masatoshi, 3,686,132.
 Kimura, Rikiti: *See—*
 Hojo, Toku; Matui, Takao; and Kimura, Rikiti, 3,684,384.
 Kimura, Sadao: *See—*
 Ishii, Masao; Sunamore, Takashi; and Kimura, Sadao, 3,652,478.
 Kimura, Setji. Vehicle foot brake locking mechanism; foot brake locking mechanism release means; and parking brake locking mechanism release means. 3,684,049, 8-15-72, Cl. 180-103,000.
 Kimura, Shiro; Nakazawa, Yoshiyuki; Sato, Akira; and Nakamura, Yasuharu, to Fuji Photo Film Co., Ltd. Photographic silver halide emulsion. 3,656,959, 4-18-72, Cl. 96-127.
 Kimura, Shiro; Kobayashi, Teruo; Ishige, Sadao; and Kiritani, Masataka, to Fuji Photo Film Co., Ltd. Lactone compound and process for preparation thereof. 3,663,571, 5-16-72, Cl. 260-343,3.
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 Kimura, Shiro; Kobayashi, Teruo; and Ishige, Sadao, to Fuji Photo Film Co., Ltd. Pressure sensitive copying sheet. 3,669,710, 6-13-72, Cl. 117-36,200.
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 Kimura, Shiro; Kobayashi, Teruo; and Ishige, Sadao, to Fuji Photo Film Co., Ltd. Fluoran compounds. 3,681,392, 8-1-72, Cl. 260-335,000.
 Kimura, Shiro; Sadao, Ishige; and Kobayashi, Teruo, to Fuji Photo Film Co., Ltd. Chromenopyrazol and process for preparation thereof. 3,697,540, 10-10-72, Cl. 260-310,00r.
 Kimura, Shoji: *See—*
 Fukuoka, Ichiro; Kimura, Shoji; Nishimura, Takehiko; and Takahashi, Satoshi, 3,697,609.
 Kimura, Shuji: *See—*
 Daitoku, Kouichi; and Kimura, Shuji, 3,643,576.
 Daitoku, Kouichi; and Kimura, Shuji, 3,679,148.
 Kimura, Shuji, to Nippon Kogaku K.K. Motor-driven winding device for a camera. 3,640,201, 2-8-72, Cl. 95-31.
 Kimura, Shuji, to Nippon Kogaku K.K. Film wind-up device for cameras. 3,645,182, 2-29-72, Cl. 95-31.
 Kimura, Shuji, to Nippon Kogaku K.K. Film magazine unloading mechanism in a camera. 3,651,747, 3-28-72, Cl. 95-31.
 Kimura, Tadao, to Lead Metal Kogyo Kabushiki Kaisha. Method of discharge forming bulged articles. 3,654,788, 4-11-72, Cl. 72-56.
 Kimura, Takashi: *See—*
 Umehara, Hanji; Kimura, Takashi; and Hamamoto, Hiroshi, 3,706,550.
 Kimura, Takashi; Kumagai, Kazuo; and Kanda, Kaoru, to Fujitsu Limited. Magnetic tape unit reading system. 3,665,432, 5-23-72, Cl. 340-174,1.
 Kimura, Takashi; Majima, Azusa; Hamamoto, Hiroshi; and Awano, Yoji, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Method for producing iron base sintered alloys containing copper. 3,674,472, 7-4-72, Cl. 75-221,000.
 Kimura, Takehiko; and Niizawa, Yoshiaki, to Canon Camera Kabushiki Kaisha. Positional indicating device for numerical value. 3,639,734, 2-1-72, Cl. 235-92.
 Kimura, Taro, to Kabushiki Kaisha Ricoh. Water feeding method for offset printing. 3,683,808, 8-15-72, Cl. 101-451,000.
 Kimura, Tsuguo: *See—*
 Shimizu, Sakae; and Kimura, Tsuguo, 3,682,629.
 Kimura, Tsutomu: *See—*
 Yano, Akira; Kimura, Tsutomu; and Utsugi, Mikio, 3,649,118.
 Kimura, Tsutomu, to Fuji Photo Film Co., Ltd. Automatic photographic gradation measuring system for controlling auxiliary exposure means. 3,639,058, 2-1-72, Cl. 355-83.
 Kimura, Yasuo, to Kanegafuchi Boseki Kabushiki Kaisha. Lining for shoes. 3,692,623, 9-19-72, Cl. 161-159,000.
 Kimura, Yoh, to Nishikawa Rubber Co., Ltd. Packing strip structure. 3,699,718, 10-24-72, Cl. 49-491,000.
 Kimura, Yoshimasa: *See—*
 Hosoe, Kazuya; and Kimura, Yoshimasa, 3,650,196.
 Kurahashi, Akira; Sakamaki, Hisashi; Kimura, Yoshimasa; and Kusunoki, Katsuo, 3,635,555.
 Sakamaki, Hisashi; Kimura, Yoshimasa; Sawamura, Osamu; and Sugiura, Susumu, 3,693,969.
 Kimura, Yoshio: *See—*
 Fujimoto, Yoshihisa; Kimura, Yoshio; Terasaki, Iwao; and Kitago, Takanobu, 3,697,230.
 Terasaki, Iwao; Kimura, Yoshio; Okamoto, Toshio; Shima, Tsukasa; Kohno, Mitsuo; and Kitamura, Kazuyuki, 3,669,927.
 Kimura, Yoshito: *See—*
 Taniguchi, Kaname; Furukawa, Fujio; Hisatome, Tomiro; and Kimura, Yoshito, 3,677,660.
 Kimura, Yutaka: *See—*
 Fudemoto, Isao; Tomimori, Kiyoshi; Nakamura, Eiichi; and Kimura, Yutaka, 3,646,269.
 Kinag GmbH: *See—*
 Suss, Manfred, 3,687,532.
 Kinast, Leonard L. Radiator construction. 3,653,430, 4-4-72, Cl. 165-11.
 Kinbara, Setsuro; and Kumahara, Tadashi, to Japan Atomic Energy Research Institute. Waveform discriminating circuit. 3,676,783, 7-11-72, Cl. 328-117,000.
 Kinberg, Benjamin: *See—*
 Kinberg, Benjamin; and Mayer, Richard J. (said Mayer assor. to said), 3,653,663.
 Mayer, Richard J.; and Kinberg, Benjamin, 3,674,598.
 Kinberg, Benjamin; and Mayer, Richard J., said Mayer assor. to said Kinberg, Benjamin. Spherical shell game apparatus having internal cups and a freely moveable ball. 3,653,663, 4-4-72, Cl. 273-96.
 Kinberg, Ragnar, to RIV-SKF Officine di Villar Perosa S.p.A. Seals. 3,689,081, 9-5-72, Cl. 277-1,000.
 Kincaid, Charles A., to Key Research and Development Company. Fastener for metal-wood structures. 3,668,966, 6-13-72, Cl. 85-67,000.
 Kincaid, Gary L.: *See—*
 Freudenthal, Frank D.; and Kincaid, Gary L., 3,693,938.
 Kincaid, Gary L., to Gray Manufacturing Company, Inc. Vehicle lift. 3,664,635, 5-23-72, Cl. 254-8.

- Kincaid, Harrison S.; Hostettler, Fritz; and Vineyard, Harry, to Union Carbide Corporation. Ethylenically unsaturated polyalac-tone-based polyurethane elastomer and vulcanizates therefrom. 3,651,021, 3-21-72, Cl. 260-77.5.
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- Kincaid, Herbert J.: *See—*
- Wolniak, Stanley C.; Kincaid, Herbert J.; and Johnson, Marshall A., 3,639,708.
- Kincaid, Jack W.; and Simpson, Michael M., to Western Electric Company, Incorporated. Methods of forming and assembling articles with a support. 3,651,566, 3-28-72, Cl. 29-602.
- Kincaid, James U.: *See—*
- Hair, George D.; and Kincaid, James U., 3,673,331.
- Kincaid, Reece: *See—*
- Schoenbeck, Delbert L.; and Kincaid, Reece, 3,667,487.
- Kinch, Donald G.: *See—*
- Bergy, Malcolm E.; Hoeksema, Herman; Johnson, LeRoy E.; and Kinch, Donald G., 3,651,219.
- Kincheloe, Richard D.; and Scherrer, Joseph H., to Cook Paint & Varnish Company. Silicon acrylic copolymers. 3,644,566, 2-22-72, Cl. 260-826.
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- Kindell, Colin David, to AMP Incorporated, mesne. Heat seal retaining clips. 3,673,643, 7-4-72, Cl. 24-73.00b.
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- Kindell, Jerry L.; and Trubisky, Leonard G., to Honeywell Information Systems Inc. Rounding numbers expressed in 2's complement notation. 3,699,326, 10-17-72, Cl. 235-175.000.
- Kinderman, Richard J.: *See—*
- Manner, Warren R.; and Kinderman, Richard J., 3,686,049.
- Kindig, Edwin Guilford, to Eastman Kodak Company. Film unit and apparatus for use therewith. 3,705,541, 12-12-72, Cl. 95-13.000.
- Kindig, Guilford Edwin, to Eastman Kodak Company. Print stripping mechanisms. 3,690,239, 9-12-72, Cl. 95-13.000.
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- Kindig, James K.: *See—*
- Coltrinari, Enzo L.; and Kindig, James K., 3,647,361.
- Kindis, Eugen, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. High voltage electrical cable. 3,692,925, 9-19-72, Cl. 174-120.000.
- Kindl, Bruno: *See—*
- Della Porta, Paolo; Giorgi, Tiziano A.; Kindl, Bruno; and Zucchinielli, Mario, 3,652,317.
- Porta, Della Paolo; Giorgi, Tiziano A.; Kindl, Bruno; and Zucchinielli, Mario, 3,654,533.
- Kindl, Erwin; and Riegler, Ernst, to Kalle Aktiengesellschaft. Apparatus for coating a tube of fiber material with viscose by extrusion. 3,670,697, 6-20-72, Cl. 118-408.000.
- Kindler, Hubert: *See—*
- Baumgartner, Siegfried; Kindler, Hubert; Lidl, Rolf; and Boden, Heinrich, 3,674,398.
- Kindler, Hubert; and Single, Winfried, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Catalytically dehydrogenating alkylated aromatic hydrocarbons. 3,660,510, 5-2-72, Cl. 260-669.
- Kindlimann, Lynn E.; and Ansell, George S., to Allegheny Ludlum Steel Corporation. Internally nitrided steel powder and method of making. 3,650,729, 3-21-72, Cl. 75-5.
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- Kindlimann, Lynn E.; and Greene, Alexander B., to Allegheny Ludlum Steel Corporation. Nitride strengthened stainless steel composite and production thereof. 3,672,037, 6-27-72, Cl. 29-497.500.
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- Mukai, Hisakazu; Kindo, Hideaki; Sugahara, Yoshimasa; and Yamagata, Akinori, 3,648,064.
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- Kinesonic Industries Ltd.: *See—*
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- Kinetic Lighting: *See—*
- Pennington, Davis W.; and Taylor, Ruth N., 3,701,897.
- Kinetic Power, Inc.: *See—*
- Clay, Robert A., 3,651,635.
- Kinetic Science Corporation: *See—*
- Dewhurst, Paul E., 3,704,581.
- Kinetic Technologies, Inc.: *See—*
- Teller, Alvin N., 3,696,548.
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- King, Ellis Gray, to Georgia-Pacific Corporation. Process for preparation of a pesticide employing sulfonated lignins. 3,639,617, 2-1-72, Cl. 424-300.
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- King, Ernam Fillmore: *See—*
- Cheney, Glen Trenton; and King, Ernam Fillmore, 3,668,438.
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- Hempstead, Cyril Frank, 3,690,269.
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- King, George W. Automatic hook setting device. 3,672,085, 6-27-72, Cl. 43-15.000.
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- Galloway, Dwight V.; King, Gordon E.; Asbelle, Charles C.; and Arrigo, Michael F., 3,703,894.
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- Faulk, Joseph H.; Kern, Loyd R.; and King, Graham E., 3,675,728.
- Miles, Leon H.; and King, Graham E., 3,704,750.
- King, Grover C.: *See—*
- Egan, Bruce C., Jr.; Rifkin, Morton S.; and King, Grover C., 3,693,293.
- King, Hansford D. Vehicle jack. 3,652,056, 3-28-72, Cl. 254-94.
- King, Harless W., II: *See—*
- Prader, James Edward; and King, Harless W., II, 3,694,293.
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- Ridgway, James S.; King, Henry L.; and Pickett, Oscar A., Jr., 3,674,752.
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- Nelson, Henry O.; King, Howard F.; and Dale, Louis D., 3,632,067.
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- Bayne, John; King, Ian Robert; and Morey, John Richard, 3,697,550.
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- Campbell, Donald J.; Heffner, William J.; Jennings, Paul H.; and King, Jane E., 3,665,487.
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- King, John L., Jr.: *See—*
- Koch, Roland G.; and King, John L., Jr., 3,658,352.
- King, John L., Jr., to Houdaille Industries, Inc. Torque resettable overload releasing clutch for tool holders and the like. 3,649,129, 3-14-72, Cl. 408-139.
- King, John L., Jr.; and Koch, Roland G., to Houdaille Industries, Inc. Tool holder with spring operated nut. 3,663,028, 5-16-72, Cl. 279-91.
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- King, Josef: *See—*
- Ganter, Wolfgang; Otto, Heinz; and King, Josef, 3,703,805.
- King, Julian P., Jr.; and Klimmek, Norman, to North American Rockwell Corporation. Method of fabricating hollow blades. 3,653,110, 4-4-72, Cl. 29-156.8.
- King, Jurgen: *See—*
- Herr, Friedrich; and King, Jurgen, 3,643,421.
- King, Karl Lewis: *See—*
- Arrington, James R.; and King, Karl Lewis, 3,696,019.
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- King, Roger M., 3,631,573.
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Van Dyck, Kenneth A.; King, Phillip W.; and Stephenson, Charles F., 3,635,372.
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Holler, Frank A.; and King, Radford G., 3,653,514.
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Alden, John R.; and Aker, John L., 3,702,475.
- Burrell, Gary L., 3,696,422.
- King, Randall N., to General Electric Company. Sealed electrochemical cell with an electrolytic solution containing an electrolyte and a dissolved fuel. 3,692,584, 9-19-72, Cl. 136-83.00r.
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Berglund, Neil C.; King, Robert W.; and Swearingen, Kent W., 3,672,297.
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- King, Roger M., to King, Milner. Bracelet construction. 3,633,357, 1-11-72, Cl. 59-35.
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Fabiano, Lucian Philip, Jr.; Grandmaison, John Paul; Greason, William Wallace, III; and King, Ted R., Jr., 3,647,980.
- King, Thomas M.; and Vandersall, Howard L., to Monsanto Company. Deflocculation of solid materials in aqueous medium. 3,654,151, 4-4-72, Cl. 252-8.5.
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Brown, Robert H.; Anderson, William A.; and King, William, 3,674,448.
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Holler, Frank A.; and King, Radford G., 3,653,514.
- King-Sealey Thermos Co.: See—
Anderson, Gordon H.; Lea, Albert; and Ahlstrom, Raymond C., 3,707,058.
- Clark, Robert H., 3,664,322.
- Linstead, Robert Stanley, 3,662,488.
- King-Sealey Thermos Co., mesne: See—
Clough, Philip J.; and Keough, Allen H., 3,646,749.
- Clough, Philip J.; and Steeves, Robert W., 3,707,433.
- Gorrell, John H., 3,647,508.
- Gorrell, John H., 3,660,138.
- Kinghorn, John S.: See—
Wagoner, Robert B.; and Kinghorn, John S., 3,701,458.
- Kinghorn, Mark D.: See—
Bieker, Lawrence W.; Schuler, Harold E.; and Kinghorn, Mark D., 3,666,158.
- Kingma, Rinze Veenenga: See—
DeHeere, Gerard Andries Scheltema; and Kingma, Rinze Veenenga, 3,653,307.
- Kingman, Edward F., to Susquehanna Corporation, The. System for measuring light transmittance through absorptive or diffusive media. 3,632,209, 1-4-72, Cl. 356-291.
- Kingmann-White, Inc.: See—
Nolte, Claude B., 3,640,136.
- Kingsberry Home Corporation: See—
Groat, Marshall O., 3,646,714.
- Kingsbury, George R.; and Slater, Raymond L., to Clevite Corporation. Aluminum alloy-steel bearing and method of making same. 3,652,344, 3-28-72, Cl. 148-127.
- Kingsbury, James: See—
Folson, Henry J.; Boxley, Denis V.; Kingsbury, James; Kraitzer, Shlomo; Soullakis, George; and Whittington, Jimmie L., 3,706,153.
- Kingsbury, Keith M., to Motorola, Inc. Minimum size transponder. 3,656,159, 4-11-72, Cl. 343-6.8.
- Kingsbury, LC James: See—
Beny, Janos; Kingsbury, LC James; and Scribner, David L., 3,678,618.
- Kingsbury, Richard F.: See—
Isaac, George L.; Kingsbury, Richard F.; and Surak, John G., 3,701,021.
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Kingshott, Patricia Alexandra, 3,665,935.
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Luebbbers, Earl H.; and Kingsley, Bertis N., 3,706,154.
- Kingsley, George S.: See—
Lamb, Charles Paul; Dudley, William A.; Kingsley, George S.; and De Moss, Edward E., 3,659,961.
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Diamond, Robert F.; and Kingston, George W., 3,698,329.
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Carroll, John Robert; Kiniry, John Michael; and Finazzo, Anthony, 3,670,438.
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Wada, Yoshiyo; Kinjo, Hisao; Suzuki, Toshi; and Akuwa, Fumio, 3,673,352.
- Wada, Yoshiyo; Kinjo, Hisao; and Okano, Keigo, 3,679,822.
- Wada, Yoshiyo; Kinjo, Hisao; Takashima, Seiichi; and Akuwa, Fumio, 3,681,525.
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- Kinkade, Robert G.: See—
Allen, Charles A.; Andersen, Stanley R.; Kinkade, Robert G.; Kwei, Thomas; and Robinson, Richard H., 3,681,757.
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- Kinkaid, Robert John, to AMP Incorporated. Electrical connectors. 3,656,093, 4-11-72, Cl. 339-217.
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Ross, Howard C., 3,706,440.
- Walker, Patrick J., 3,693,756.
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- Kinkel, Klaus: See—

- Lehnerer, Wolfgang; Gueterbock, Hermann; and Kinkel, Klaus, 3,634,381.
- Kinkopf, Edward J.: See—
Bonesteel, Kenneth E.; and Kinkopf, Edward J., 3,631,996.
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Kinley, John C.; Floeck, Wayne D.; and Agee, Charles W., 3,683,408.
- Kinnaird, Robert N., Jr., to Mobil Oil Corporation. Asphaltic compositions. 3,707,388, 12-26-72, Cl. 106-273.000.
- Kinnard, Frank R. Vibratory earth engaging shank. 3,698,484, 10-17-72, Cl. 172-40.000.
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Fridman, Jonathan D.; Kinnard, Kenneth F.; Meister, Kurt A.; and Young, Robert M., 3,649,919.
- Kinnavy, James W., to Continental Can Company, Inc. Dispensing container with plural closures. 3,680,740, 8-1-72, Cl. 222-129.000.
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- Kinnear, John M.: See—
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- Kinnebrew, John E. Air reconditioning apparatus. 3,698,158, 10-17-72, Cl. 55-227.000.
- Kinneman, William P., Jr.; and Uram, John R., Jr., to Sika Chemical Corporation. Coating compositions comprising and epoxy resin and aliphatic amine reaction products. 3,639,344, 2-1-72, Cl. 260-47.
- Kinner, George Henry: See—
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- Kinner, Gotthard: See—
Bauer, Franz; Besemer, Karl Friedrich; and Kinner, Gotthard, 3,676,776.
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- Kinner, Hans-Dieter, to Foxboro Company, The. Fluidic sequence controller. 3,656,510, 4-18-72, Cl. 137-608.000.
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- Kinney, Alfred W., to Phillips Petroleum Company. Rim curling apparatus and method. 3,633,469, 1-11-72, Cl. 93-36.5.
- Kinney, Alfred W., to Phillips Petroleum Company. Container closure. 3,642,167, 2-15-72, Cl. 220-60.
- Kinney, Alfred W., to Phillips Petroleum Company. Packaging container and closure therefor. 3,643,830, 2-22-72, Cl. 220-44.
- Kinney, Alfred W., to Phillips Petroleum Company. Combined container and closure. 3,651,981, 3-28-72, Cl. 220-60.
- Kinney, Alfred W.; and Marshall, Frederick P., to Phillips Petroleum Company. Container and closure therefor. 3,669,305, 6-13-72, Cl. 220-60.00r.
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- Kinney, Freas C., to Gulton Industries, Inc. Cutting head for production of ceramic parts. 3,634,916, 1-18-72, Cl. 25-105.
- Kinney, John D.: See—
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- Kinney, John F., to Bendix Corporation, The. Mechanical clutch-brake. 3,688,881, 9-5-72, Cl. 192-8.00r.
- Kinney, John F. Acceleration selector unit for automobile accelerators. 3,698,261, 10-17-72, Cl. 74-562.000.
- Kinney, John M., to American Welding & Manufacturing Company, The. Method and apparatus for calibrating the position of a tool and for gauging the dimensions of a workpiece. 3,641,849, 2-15-72, Cl. 82-1.
- Kinney, Layton E.: See—
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- Kinney, Layton F.; and Betty, Roy J. Unsaturated polyester compositions thickened by a di-substituted urea. 3,632,668, 1-4-72, Cl. 260-864.
- Kinney, Layton Frederick, to Armour Industrial Chemical Company, mesne. Polymerization of unsaturated compounds with salts of arylaliphatic carboxylic acids. 3,701,744, 10-31-72, Cl. 260-23.7.
- Kinney, Robert E.: See—
Bridger, Robert F.; Kinney, Robert E.; and Williams, Albert L., 3,651,151.
- Kinney, S. P., Engineers, Inc.: See—
Bradel, Norman F., 3,695,300.
- Carr, Hugh B., 3,635,348.
- Carr, Hugh B.; and Bradel, Norman F., 3,653,647.
- Kinney, Selwyne P., 3,640,395.
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- Kinnicutt, Roger, Jr. Self-tailing portable capstan. 3,677,521, 7-18-72, Cl. 254-183.000.
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- Kinno, Akira. Timer circuit of an automatic telephone answering apparatus. 3,688,043, 8-29-72, Cl. 179-6.00r.
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Klein, Emil, 3,698,180.
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- Kinnucan, Walter F., Jr. Trench forming, pipe laying and trench wall supporting machine. 3,638,438, 2-1-72, Cl. 61-72.1.
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- Kino, Takayuki: See—
Sakomura, Toshio; Shimizu, Akihiko; Kino, Takayuki; and Kita, Atsushi, 3,669,944.
- Kinoian, George H.: See—
Kinoian, George H.; and Zuljivech, Jeri, 3,690,509.
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- Kinoshita, Ryohei; and Ishizawa, Masami, to Fujitsu Limited. Push-button switch. 3,701,064, 10-24-72, Cl. 335-205.000.
- Kinoshita, Shouzo; and Yamamura, Isao, to Pioneer Electronic Corporation. Loud speaker system. 3,693,752, 9-26-72, Cl. 181-31.00a.
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Akatsu, Mitsuharu; Kinoshita, Tomoo; and Iwasaki, Tadahiko, 3,706,003.
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- Kinsell, Earl G. Minnow seine poles. 3,699,700, 10-24-72, Cl. 43-14.000.
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- Kinsella, Thomas P.; and De Vittori, Joseph M., to Sherwin-Williams Company, The. Cathodic treatment of an electrocoating bath. 3,682,806, 8-8-72, Cl. 204-181.000.
- Kinser, Russell S. Etching acid pick-up apparatus. 3,656,209, 4-18-72, Cl. 15-349.000.
- Kinsey, Lewis R. Metal chimney with ceramic lining. 3,631,789, 1-4-71, Cl. 98-58.
- Kinsey, Robert E. Automatic disk cutter. 3,668,958, 6-13-72, Cl. 83-88.000.
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- Kinstley, Warren O.; and Sivertsen, David R., to Texas Instruments, Incorporated. Method of depositing a metal oxide film by electron bombardment. 3,704,216, 11-28-72, Cl. 204-164,000.
- Kint, Bernice V. Protective sleeve for chairs. 3,643,905, 2-22-72, Cl. 248-345.1.
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- Jatho, George W.; and Kint, Louis F., 3,664,589.
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- Hozumi, Shiro; and Kinugasa, Terukazu, 3,664,293.
- Kinzbach, Robert B. Force transmitting coupling. 3,662,867, 5-16-72, Cl. 192-45.
- Kinzer, William K.: *See—*
- Reed, William A.; Kinzer, William K.; Swanson, John J.; and Kusner, Robert E., 3,655,837.
- Kinzler, Johann: *See—*
- Vogl, Willibald; Kinzler, Johann; and Goessl, Gottfried, 3,681,612.
- Kiovisky, Joseph R.; and Bart, Ronald K., to Norton Company. Bonded low-alumina mordenite. 3,641,095, 2-8-72, Cl. 252-455.
- Kiovisky, Thomas E.; and Petzny, Wilfried J., to Shell Oil Company. Regeneration of metal halide catalyst. 3,657,108, 4-18-72, Cl. 208-10.
- Kiovisky, Thomas E.; and Wald, Milton M., to Shell Oil Company. Hydrogenation catalyst. 3,663,452, 5-16-72, Cl. 252-438.
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- Kipling, Barry John, to Pye Limited. Closed circuit medical respirators. 3,695,263, 10-3-72, Cl. 128-145,600.
- Kiplinger, Dale V.: *See—*
- Beatty, Ronald L.; and Kiplinger, Dale V., 3,664,859.
- Kipnis, Aron Mikhailovich; and Kesselman, Stella Mikhailovna. Apparatus for testing manometric instruments. 3,688,554, 9-5-72, Cl. 73-4,00r.
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- Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Idelevich; Zhabin, Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhikhin, Vladimir Petrovich; Rubnikov, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Ussyaslav Iosifovich; Sharipova, Ravia Davlyatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorievich, 3,654,325.
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- Kipp, Karl F.: *See—*
- Frank, Gerard A.; Kipp, Karl F.; and Oswald, Donald R., 3,664,872.
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- Balder, Arnold, 3,632,060.
- Kippax, Donald L.; and Murphy, Kevin E., to General Electric Company. Crystallization of 2,6-diphenylphenol. 3,679,766, 7-25-72, Cl. 260-620,000.
- Kippenhan, Dean O., to United States of America, Atomic Energy Commission. Fast-acting magnetic switching device for high level electrical signals and diverter incorporating same. 3,638,032, 1-25-72, Cl. 307-88.
- Kipperberg, Palmar. Stranded cable open strand detector. 3,659,406, 5-2-72, Cl. 57-19.
- Kipping, Vernon L., 1/3 to Jobson, Roger J. and 1/3 to Costello, John P. Illuminated mirror for cosmetic case. 3,641,334, 2-8-72, Cl. 240-6,45.
- Kipple, Harry P.: *See—*
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- Kipple, Harry P.; Cozzarin, Virgil J.; and Kapperman, Francis C.; deceased (by Kapperman, Dorothy M.; administratrix), to Westinghouse Electric Corporation. Temperature control device. 3,683,154, 8-8-72, Cl. 219-412,000.
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- Kira, Hiroshi, to General Telephone Company of California. Interior modular panel assemblies. 3,696,855, 10-10-72, Cl. 160-135,000.
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- Leising, Maurice B.; Greif, Herman J., Jr.; Kirberg, James R.; and Willson, Philip J., 3,647,393.
- Kirby, David B.: *See—*
- Kroening, Roger D.; and Kirby, David B., 3,690,907.
- Kirby, Edward J., to Torrance Tubing; division of Cyprus Mines Corporation. Underground drive coupling. 3,635,500, 1-18-72, Cl. 285-115.
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- Badia, Frank Arthur; and Kirby, Gary Neil, 3,676,226.
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- Kirby, Joseph L.; and Puermer, George O., to Mallory, P. R., & Co., Inc. Combination variable resistor and switching means. 3,644,865, 2-22-72, Cl. 338-173.
- Kirby, Lonnie Dee: *See—*
- McDaniel, Philip F.; and Kirby, Lonnie Dee, 3,642,129.
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- Barker, Michael D.; and Kirby, Peter, 3,666,768.
- Kirby, Peter, to Shell Oil Company. Benzothiadiazole salicylamides. 3,637,724, 1-25-72, Cl. 260-304.
- Kirby, William D. Flow operated selector valve for irrigation systems. 3,642,022, 2-15-72, Cl. 137-119.
- Kirby, Woodrow P., to United States of America, Navy. Automatically deployable sonobuoy. 3,646,505, 2-29-72, Cl. 340-2.
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- Kirchgassner, Hedwig, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Silicic acid-containing dentifrice. 3,705,940, 12-12-72, Cl. 424-49,000.
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- Kirchner, Frederick K., to Sterling Drug Inc. Nitrofururaldehyde sulfonylhydrazones. 3,651,057, 3-21-72, Cl. 260-240.
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- Isen, Allan A.; and Kirchner, Fredric M., 3,661,248.
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- De Wittie, H. W.; Kirchstein, John A.; and Atit, Kishore M., 3,647,396.
- Kirido, Ivan Viktorovich: *See—*
- Khrenov, Konstantin Konstantinovich; Gursky, Pavel Ivanovich; Shulman, Grigory Alexandrovich; Klimenko, Gennady Alexeevich; Kirido, Ivan Viktorovich; Dmitrenko, Georgy Viktorovich; Yagupov, Ivan Nikolaevich; Tsyrlin, Mark Irmovich; Novikov, Anatoly Petrovich; and Puzov, Filimon Efimovich, 3,688,382.
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- Tsuneta, Asahide; Tanaka, Hiroshi; and Kiriake, Yoshifumi, 3,652,895.
- Kirian, Christopher C.: *See—*
- McClellan, Ralph E.; and Kirian, Christopher C., 3,682,113.
- Kirichenko, Sergei Pavlovich: *See—*
- Nekrasov, Nikolai Nikolaevich; Blinichikov, Alexandr Lvovich; Kazansky, Vasily Leonidovich; Besedin, Alexandr Fedorovich; Krikunenko, Anatoly Filippovich; Makarov, Egor Maximovich; Zemskov, Alexei Lavrentievich; Afonogonov, Fridrikh Ivanovich; Kirichenko, ergei Pavlovich; and Kulikov, Alexei Andreevich, 3,681,003.
- Kiritani, Masataka: *See—*
- Kimura, Shiro; Kobayashi, Teruo; Ishige, Sadao; and Kiritani, Masataka, 3,663,571.
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- Kimura, Shiro; Kobayashi, Teruo; Ishige, Sadao; and Kiritani, Masataka, 3,669,712.
- Kiritani, Toyotaro: *See—*
- Terasawa, Nobuo; Yagi, Syuho; Yanaga, Yoichiro; and Kiritani, Toyotaro, 3,636,736.
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- Hybarger, Kenneth C.; and Kirk, Joseph R., 3,648,541.
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- Tsuk, Andrew G.; and Kirk, Charles C., 3,702,800.
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- Jacobs, Herbert V.; and Kirk, Donald, Jr., 3,650,647.
- Kirk, Joseph R.: *See—*
- Hybarger, Kenneth C.; and Kirk, Joseph R., 3,648,541.
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- Mills, Ivor W.; Dimeler, Glenn R.; and Kirk, Merritt C., Jr., 3,681,279.
- Mills, Ivor W.; Dimeler, Glenn R.; Kirk, Merritt C., Jr.; and Boyer, Jackson S., 3,699,071.
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- Larrieu, Leslie J., 3,679,404.
- Kirk, Norbert A. Self-propelled aerial toys. 3,665,640, 5-30-72, Cl. 46-74.
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Balzer, Claude P.; Corman, Edward M.; Reiff, Almer A.; and Kirkwood, Wilber E., 3,659,390.

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Johnson, Robert B.; and Kirn, Thomas G., 3,677,498.

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Wedekind, Benno; and Kirsch, Werner, 3,692,619.

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Dochring, Ekkehard; and Kirschner, Peter, 3,680,407.

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Spenadel, Lawrence; Hall, Homer J.; and Kirshenbaum, Isidor, 3,697,455.

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Kirzinger, Horst; and Kirzinger, Alfons, 3,639,954.

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Berg, Markus; Fries, Walter; and Kirstahler, Alfred, 3,676,340.

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Lenss, Andris; and Kirton, Lionel A., 3,669,431.

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Edwards, William Thomas; and Kirwan, James, 3,671,799.

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Sugimoto, Nobuo, 3,648,862.

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Genma, Susumu; Kuroda, Akio; Kato, Toshio; and Kishi, Fusao, 3,681,225.

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Tanaka, Masao; Kishi, Teruo; and Mineura, Kazuyuki, 3,699,113.

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Higashide, Eiji; Hasegawa, Toru; Shibata, Motoo; Kishi, Toyokazu; Harada, Setsuo; and Mizuno, Komei, 3,660,567.

Higashide, Eiji; Hasegawa, Toru; Ono, Hideo; Asai, Mitsuko; Muroi, Masayuki; and Kishi, Toyokazu, 3,691,280.

Kishida, Etsuji: *See—*

Nakata, Kikunori; and Kishida, Etsuji, 3,648,519.

Kishida, Soichiro: *See—*

Takenaka, Sadao; Kishida, Soichiro; and Yamazaki, Yoichi, 3,670,740.

Kishida, Yukichi: *See—*

Iwai, Issei; Kishida, Yukichi; and Iwashige, Tadahiyo, 3,700,688.

Iwai, Issei; Kishida, Yukichi; Hiroaka, Tetsuo; and Nakamura, Norio, 3,687,968.

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Ishibashi, Yoshiyuki; and Kishikawa, Kanichi, 3,657,912.

Kishikawa, Kanichi; Kuwata, Takeo; Kinoshita, Kentaro; Tsuchiya, Takao; and Kamogawa, Yoshiro, to Nippon Steel Corporation. Method of rolling shaped steel members having flanges. 3,678,721, 7-25-72, Cl. 72-225.000.

Kishikawa, Toshiro: *See—*

Doi, Yoshikazu; Kishikawa, Toshiro; and Nomura, Hiroshi, 3,681,521.

Doi, Yoshikazu; Kishikawa, Toshiro; and Sunaga, Yasumasa, 3,706,484.

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Okamoto, Takehiko; Inoue, Masakazu; Kishimoto, Akihiko; and Sueyoshi, Tadahiyo, 3,707,585.

Kishimoto, Kiyomi: *See—*

Okazaki, Kaoru; Tohyama, Shunroku; Nakata, Minoru; and Kishimoto, Kiyomi, 3,652,713.

Kishimoto, Masaru: *See—*

Yamamoto, Kiyokazu; Kishimoto, Masaru; Ueno, Susumu; Fujimoto, Hiroshi; Hatamoto, Kazutaka; and Kubota, Tadashi, 3,641,653.

Kishimoto, Shoji: *See—*

Noguchi, Shunsaku; Kishimoto, Shoji; and Kawai, Kiyohisa, 3,694,456.

Noguchi, Shunsaku; and Kishimoto, Shoji, 3,704,241.

Kishimoto, Takuo: *See—*

Suzuki, Yasuhiro; Ikegami, Renpei; and Kishimoto, Takuo, 3,647,090.

Kishino, Shigeo: *See—*

Hirane, Seiichi; Aya, Masahiro; and Kishino, Shigeo, 3,706,832.

Schrader, Gerhard; Eue, Ludwig; Hack, Helmuth; Hirane, Seiichi; Aya, Masahiro; Kishino, Shigeo; and Fukazawa, Nobuo, 3,636,143.

Schrader, Gerhard; Scheinpfug, Hans; Jung, Herbert F.; Kuyama, Shimpei; Kishino, Shigeo; and Yamada, Yasuo, 3,705,241.

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Young, David E.; Kisling, James W., III; and Nutter, Benjamin P., 3,662,826.

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Andrusenko, Petr Ivanovich; Dolganov, Kint Evgenievich; Kovalev, Alexandr Ivanovich; Berezovsky, Pavel Iosipovich; Dmitrenko, Vladimir Ilich; Shukshin, Nikolai Pavolich; Gutarevich, Jury Feodosievich; Kislov, Vladimir Grigorievich; Chevtayev, Andrei Vasilievich; Koshman, Eduard Ivanovich; and Filippov, Vladimir Vasilievich, 3,676,023.

Kisner, Clinton E.: *See—*

Dalglish, John D., Jr.; and Kisner, Clinton E., 3,690,077.

Kisner, Lester A.: *See—*

Mellon, Eugene P.; and Kisner, Lester A., 3,696,848.

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Kiss, Bela: *See—*

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Field, Nathan D.; Kiss, Kornel D.; Lorenz, Donald H.; and Smolin, Edwin M., 3,658,943.

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Harsanyi, Kalman; Takacs, Kalman; Relle, Zsuzsa, nee Somfai; Milak, Eva, nee Krompecher; Tardos, Laszlo; Korbonits, Dezso; Kiss, Pal; and Gonczy, Csaba, 3,673,188.

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Gilson, Russell A.; Kiss, William F.; and Organic, Vincent J., 3,656,002.

Kissas, Erik, to Du Pont de Nemours, E. I. and Company. Dyeing sulfonated anionic polymeric fibers with an aqueous dispersion of a salt of a cationic dye and an arylsulfonate. 3,660,008, 5-2-72, Cl. 8-21.

Kissel, Ernst: *See—*
Kassat, Harry; and Kissel, Ernst, 3,689,367.

Kassat, Harry; Kissel, Ernst; and Kolenda, Herbert, 3,703,592.

Kissel, Martin S. Hanger for pipes and conduits. 3,667,711, 6-6-72, Cl. 248-72.000.

Kissell, Kenneth E.: *See—*
Macknik, Louis S.; and Kissell, Kenneth E., 3,678,279.

Kisselmann, Willy; Rumpelstein, Fritz; and Kopf, Paul, to Agfa-Gevaert Aktiengesellschaft. Indicating instrument for visual reading. 3,637,286, 1-25-72, Cl. 350-112.

Kisselmann, Willy; Rumpelstein, Fritz; Kopf, Paul; and Landbrecht, Franz, to Agfa-Gevaert Aktiengesellschaft. Moving-oil assembly for electrical measuring instruments. 3,639,836, 2-1-72, Cl. 324-154.

Kisselmann, Willy; Rumpelstein, Fritz; and Kopf, Paul, to Agfa-Gevaert Aktiengesellschaft. Balancing means for moving coils of electrical measuring instruments. 3,696,295, 10-3-72, Cl. 324-154.0pb.

Kissinger, Lewis E., to United States of America, Navy. Flooder. 3,696,747, 10-10-72, Cl. 102-10.

Kissinger, Richard D.: *See—*
Hirt, Thomas J.; Kissinger, Richard D.; Kendall, John P.; and Frantzen, Karl H., 3,707,644.

Kissling, Bruno; and Pummer, Helmut. Optical brightening preparations. 3,684,728, 8-15-72, Cl. 252-301.20w.

Kisten, Jurgen Manfred, to Radiometer A/S. Electrode, half cell and electrode component for the measurement of electromotive force. 3,676,319, 7-11-72, Cl. 204-195.00f.

Kisteneich, Heinz; and Proksa, Ferdinand, to Maschinenfabrik Hennecke GmbH. Apparatus for producing foam sections from components that react quickly with one another when mixed. 3,706,516, 12-19-72, Cl. 425-141.000.

Kistler Instrument Corporation: *See—*
Kistler, Walter P., 3,635,298.

Kistler Instrumente AG: *See—*
Spescha, Gelli; Martini, Karlheinz; and Sonderegger, Hans Conrad, 3,640,130.

Spescha, Gelli A., 3,672,223.

Kistler, Richard P., to PPG Industries, Inc. Method of operating a cement kiln. 3,689,044, 9-5-72, Cl. 263-53.00r.

Kistler, Walter P., to Kistler Instrument Corporation. Force feedback mass balance. 3,635,298, 1-18-72, Cl. 177-210.

Kistner, John F.: *See—*
Gruenewald, Larry E.; and Kistner, John F., 3,694,301.

Kita, Atsushi: *See—*
Sakomura, Toshio; Shimizu, Akihiko; Kino, Takayuki; and Kita, Atsushi, 3,669,944.

Kita, Donald A., to Pfizer, Chas., & Co., Inc. Method of stabilizing fowl red blood cells for use in hematology control compositions. 3,632,735, 1-4-72, Cl. 424-3.

Kita, Hidehiko, to Nippon Gakki Seizo Kabushiki Kaisha. Bamboo organ pipe assembly. 3,671,660, 6-20-72, Cl. 84-349.000.

Kita, Hideo; and Ito, Kunihiko, to Nippon Sheet Glass Co., Ltd. Process for the manufacture and sizing of flout glass. 3,637,361, 1-25-72, Cl. 65-25.

Kita, John F.: *See—*
Oaks, Seibert S.; and Kita, John F., 3,646,649.

Kita, John F.; and Heaton, James W., to Kennametal Inc. Abrading tool. 3,695,723, 10-3-72, Cl. 299-40.000.

Kita, Masaaki, to Kabushiki Kaisha Komatsu Seisakusho. Mechanical double-action press of link mechanism type. 3,695,090, 10-3-72, Cl. 72-450.000.

Kita, Yasuo, to Shimadzu Seisakusho, Ltd. Gear pump or motor. 3,658,452, 4-25-72, Cl. 418-203.

Kita, Yasuo; and Hayashi, Tadao, to Shimadzu Seisakusho Ltd. Fluid flow control valve. 3,685,537, 8-22-72, Cl. 137-493.600.

Kitada, Iso. Apparatus for rehabilitative exercise of feet. 3,638,645, 2-1-72, Cl. 128-25.

Kitagawa, Hideji: *See—*

Morita, Ken-Ichi; Mizushima, Toshio; Kitagawa, Hideji; and Sakai, Hiroshi, 3,632,798.

Sakai, Hiroshi; Izumi, Zenji; Kitagawa, Hideji; Mamada, Satoshi; and Hoshina, Masakuni, 3,660,527.

Kitagawa, Hiroshi: *See—*
Kobayashi, Tsuneco; Morita, Ken-Ichi; Kitagawa, Hiroshi; Yokoyama, Toshimitsu; and Makida, Shigeo, 3,644,375.

Kitagawa, Mashiho: *See—*
Hori, Shin; Inoue, Tomiyoshi; Yamamoto, Shozo; Tataru, Kazuo; Kitagawa, Mashiho; Watanabe, Masaru; Okada, Yukihiko; and Negishi, Naoki, 3,686,832.

Kitagawa, Sumio: *See—*
Yamamoto, Hisao; Kitagawa, Sumio; Inaba, Shigeo; Sakai, Shigeru; Hirohashi, Toshiyuki; Maruyama, Isamu; Akatsu, Mitsuhiro; and Izumi, Takahiro, 3,641,002.

Kitagawa, Tadashi; Yaguchi, Shoichi; Yamanobe, Katsuyuki; and Kawamata, Masao, to Daito Tsushinki Kabushiki Kaisha. Fuses and fuseholders. 3,696,316, 10-3-72, Cl. 337-206.000.

Kitago, Takanobu: *See—*
Fujimoto, Yoshihisa; Kimura, Yoshio; Terasaki, Iwao; and Kitago, Takanobu, 3,697,230.

Kitaguchi, Tome; and Renger, Herman L., to Bunker-Ramo Corporation, The. Analog-to-digital converter. 3,644,924, 2-22-72, Cl. 340-347.

Kitahara, Norio: *See—*
Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiko; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,632,671.

Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiko; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,657,046.

Kitahara, Takeshi: *See—*
Matsui, Masanao; Kitahara, Takeshi; Fujimoto, Keimei; and Okuno, Yositosi, 3,636,059.

Kitai, Atsuo: *See—*
Kono, Kageaki; Oki, Toshikazu; Kitai, Atsuo; and Ozaki, Asachiro, 3,663,370.

Kitai, Kiyoshi. Shutter operating mechanism. 3,638,544, 2-1-72, Cl. 95-10.

Kitai, Kiyoshi. Exposure time control device. 3,645,185, 2-29-72, Cl. 95-53.

Kitai, Kiyoshi. Shutter opening and closing mechanism. 3,645,186, 2-29-72, Cl. 95-59.

Kitai, Kiyoshi. Shutter opening and closing device. 3,645,187, 2-29-72, Cl. 95-62.

Kitai, Kiyoshi, to Kabushiki Kaisha Hattori Tokeiten. Camera with automatically charged shutter. 3,646,860, 3-7-72, Cl. 95-10.

Kitai, Kiyoshi, to Kabushiki Kaisha Hattori Tokeiten. Electric power source switching device of electric shutter. 3,657,986, 4-25-72, Cl. 95-53.

Kitai, Kiyoshi, to Kabushiki Kaisha Hattori Tokeiten. Warning device for an electronically controlled camera shutter. 3,678,821, 7-25-72, Cl. 95-10.0ce.

Kitai, Kiyoshi. Exposure time control device for a camera shutter mechanism. 3,678,837, 7-25-72, Cl. 95-59.000.

Kitai, Kiyoshi, to Kabushiki Kaisha Hattori Tokeiten. Flash photography changeover device. 3,683,768, 8-15-72, Cl. 95-10.00c.

Kitai, Kiyoshi, to Kabushiki Kaisha Hattori Tokeiten. Exposure time changeover device for cameras or shutters. 3,691,923, 9-19-72, Cl. 95-53.0cb.

Kitai, Kiyoshi, to Kabushiki Kaisha Hattori Tokeiten. Camera shutter operating mechanism. 3,699,866, 10-24-72, Cl. 95-63.000.

Kitagorodskaya, Evgenya Antonova: *See—*
Kitagorodsky, Isaak Iljich, 3,677,728.

Kitagorodsky, Isaak Iljich; deceased (by Kitagorodskaya, Evgenya Antonova; administrator). Method of manufacturing crystalline-glass articles. 3,677,728, 7-18-72, Cl. 65-19.000.

Kitajewski, Ryszard: *See—*
McNeilly, Joseph Hood; and Kitajewski, Ryszard, 3,652,798.

Kitajima, Kenichi: *See—*
Hatano, Isao; Kitajima, Kenichi; and Iwatani, Katsumi, 3,641,330.

Kitajima, Masao; Yamaguchi, Tsutomu; Kondo, Asaji; and Murcya, Noriyuki, to Photo Film Co., Ltd. and Toyo Jozo Co., Ltd. Encapsulation method. 3,691,090, 9-12-72, Cl. 252-316.000.

Kitajima, Masao; Tsuneoka, Yoozi; and Kondo, Asaji, to Fuji Photo Film Co., Ltd. Method of producing micro-capsules enclosing acetylsalicylic acid therein. 3,703,576, 11-21-72, Cl. 424-35.000.

Kitajima, Mitsuo: *See—*
Kimura, Hiroshi; Arimoto, Heiji; Nara, Hirohisa; Miyamatsu, Tsugio; and Kitajima, Mitsuo, 3,695,306.

Kitajima, Nobuo: *See—*
Hanada, Hiroshi; Kitajima, Nobuo; and Masaki, Tatsuo, 3,647,427.

Hanada, Hiroshi; and Kitajima, Nobuo, 3,647,430.

Kitamura, Hajime: *See—*
Koyanagi, Shunichi; Kitamura, Hajime; Ogawa, Kinya; and Tajima, Shigenobu, 3,661,867.

Koyanagi, Shunichi; Kitamura, Hajime; and Tajima, Shigenobu, 3,671,508.

Koyanagi, Shunichi; Kitamura, Hajime; and Shimizu, Toshihide, 3,706,705.

Kitamura, Hiroyuki, to Tokyo Shibaura Electric Co., Ltd. Electromagnetic braking device. 3,648,087, 3-7-72, Cl. 310-93.

Kitamura, Kazuyuki: *See—*
Terasaki, Iwao; Kimura, Yoshio; Okamoto, Toshio; Shima, Tsukasa; Kohno, Mitsuo; and Kitamura, Kazuyuki, 3,669,927.

Kitamura, Kosuke: *See—*
Ikegami, Kazutoshi; Ikeda, Hideo; Takeuchi, Kazumi; Kitamura, Kosuke; and Takahashi, Susumu, 3,648,179.

Kitamura, Mashiho: *See—*
Tsukui, Michio; Watanabe, Yutaka; Suzuki, Hiroshi; Kitamura, Mashiho; and Mori, Yoshisuke, 3,658,750.

Kitamura, Masaru, to KTM Industries, Inc., mesne. Rotatory valve having one piece seat construction. 3,698,687, 10-17-72, Cl. 251-315.000.

Kitamura, Saburo: *See—*
Yamashita, Oshio; Yoshida, Manabu; Hasegawa, Nobuo; and Kitamura, Saburo, 3,668,408.

Yamashita, Toshio; Ohtani, Tadao; Yoshida, Manabu; Kitamura, Saburo; and Murakami, Hideo, 3,636,492.

Kitamura, Shigeyoshi: *See—*
Itaya, Nobushige; Kamoshita, Katsuzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Nakai, Shinji; Kameda, Nobuyuki; Fujimoto, Keimei; and Okuno, Yositosi, 3,666,789.

Itaya, Nobushige; Kamoshita, Katsuzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Nakai, Shinji; Kameda, Nobuyuki; Fujimoto, Keimei; and Okuno, Yositosi, 3,669,989.

Itaya, Nobushige; Mizutani, Toshio; Kitamura, Shigeyoshi; Okuno, Yositosi; and Fujimoto, Keimei, 3,671,548.

Mizutani, Toshio; Itaya, Nobushige; Kitamura, Shigeyoshi; Fujimoto, Keimei; and Okuno, Yositosi, 3,702,851.

Kitamura, Shigeyoshi; Hirai, Hajime; Okuno, Yositosi; and Fujimoto, Keimei, to Sumitomo Chemical Company, Ltd. Diphenylethylene derivatives. 3,655,654, 4-11-72, Cl. 260-240.

Kitamura, Shigeyoshi; Hirai, Hajime; Okuno, Yositosi; and Fujimoto, Keimei, to Sumitomo Chemical Company, Ltd. Allyl or propargyl esters of substituted α -phenyl-phenyl acetic acid. 3,702,864, 11-14-72, Cl. 260-473.00a.

Kitamura, Takuo, to Nippon Electric Company, Limited. Micro-program control system. 3,689,895, 9-5-72, Cl. 340-172.500.

Kitamura, Takuya; Haruna, Takashi; and Toyoda, Minoru, to Nissan Motor Company, Limited. Maximum acceleration indicator. 3,682,001, 8-8-72, Cl. 73-492.000.

Kitamura, Tetsuo: *See—*
Mizuno, Kaoru; Kitamura, Tetsuo; Nakao, Shoichi; Yasuda, Takehiko; Ueno, Akio; Yoshikawa, Kyunojiyo; Yuminaka, Takeo; and Sakata, Kazuhiro, 3,662,905.

Kitamura, Tetsuo; and Tamai, Akira, to Mitsubishi Jukogyo Kabushiki Kaisha. Headstock balancing construction for machine tools. 3,707,333, 12-26-72, Cl. 408-235.000.

Kitamura, Tomosaburo: *See—*
Kodera, Yoichi; Kitamura, Tomosaburo; and Sawaguchi, Etsuro, 3,632,443.

Kitamura, Toshinori: *See—*
Kawakami, Takaya; Kitamura, Toshinori; Ajichi, Yoshio; and Ono, Masayoshi, 3,706,949.

Kitamura, Toshinori; Ajichi, Yoshio; Miyata, Itaru; and Ono, Masayoshi, to Nichicon Capacitor Limited. Ceramic capacitor. 3,683,244, 8-8-72, Cl. 317-261.000.

Kitamura, Yuko: *See—*
Shimauchi, Shiro; Kitamura, Yuko; Iwabuchi, Osamu; and Matsui, Takeshi, 3,700,399.

Kitani, Hiroshi: *See—*
Nakahara, Tsuneo; Kurauchi, Noritaka; and Kitani, Hiroshi, 3,648,172.

Nakahara, Tsuneo; Kurauchi, Noritaka; Kitani, Hiroshi; and Takemura, Kenji, 3,659,094.

Kitano, Akira: *See—*
Wakamatsu, Hisato; Kitano, Akira; and Kawai, Hisasi, 3,652,901.

Wakamatsu, Hisato; Kitano, Akira; and Kawai, Hisasi, 3,662,625.

Wakamatsu, Hisato; Kitano, Akira; and Kawai, Hisasi, 3,702,572.

Kitano, Hisao; and Tanimoto, Fumio. Method for manufacturing purified isocyanurates. 3,700,667, 10-24-72, Cl. 260-248.0ns.

Kitano, Ichiro: *See—*
Uchida, Teiji; Furukawa, Motoaki; Yoshikawa, Shogo; Kitano, Ichiro; and Koizumi, Ken, 3,633,992.

Kitano, Ichiro; Koizumi, Ken; Ikeda, Yoshiro; and Matsumura, Hiroyoshi, to Nippon Selfoc Kabushiki Kaisha; a/k/a Nippon Selfoc Co., Ltd. Light-conducting glass structure having a peripheral light-absorbent layer. 3,650,598, 3-21-72, Cl. 350-96.

Kitano, Ichiro; Koizumi, Ken; Matsumura, Hiroyoshi; Ikeda, Koji; and Uchida, Teiji, to Nippon Selfoc Kabushiki Kaisha; a/k/a Nippon Selfoc Co., Ltd. Image transmitter formed of a plurality of graded index fibers in bundled configuration. 3,658,407, 4-25-72, Cl. 350-96.

Kitano, Ichiro; and Matsumura, Hiroyoshi, to Nippon Selfoc Kabushiki Kaisha; a/k/a Nippon Selfoc Co., Ltd. Spherical lens structures. 3,666,347, 5-30-72, Cl. 350-96.00b.

Kitano, Ichiro; and Matsumura, Hiroyoshi, to Nippon Selfoc Kabushiki Kaisha. Light-conducting structure comprising crossed lenticular gradient index plates. 3,667,832, 6-6-72, Cl. 350-175.0gn.

Kitano, Motoi, to Matsushita Electric Industrial Co., Ltd. Insulating impregnation composition of waxy and greasy ethylene polymers. 3,642,638, 2-15-72, Cl. 252-63.

Kitano, Shin; and Momose, Yutaka, to Aisin Seiki Company Limited. Free wheel lock mechanism. 3,637,243, 1-25-72, Cl. 287-53.

Kitano, Shin; Momose, Yutaka; Ishikawa, Kazuo; and Hida, Takashi, to Aisin Seiki Kabushiki Kaisha. Inching clutch with brake and acceleration controls. 3,656,600, 4-18-72, Cl. 192-055.

Kitano, Shin; and Momose, Yutaka, to Aisin Seiki Kabushiki Kaisha. Transmission control system for vehicles. 3,659,690, 5-2-72, Cl. 192-333.

Kitano, Shin; and Momose, Yutaka, to Aisin Seiki Kabushiki Kaisha. Forward reverse and brake inching control. 3,696,897, 10-10-72, Cl. 192-4.00c.

Kitano, Yukio, to Showa Denko Kabushiki Kaisha. Method for manufacturing cryolite with high purity. 3,666,406, 5-30-72, Cl. 23-88.

Kitanosono, Hidehiro: *See—*
Minami, Tohru; Nishio, Mikio; Toyama, Ichiro; Kawano, Shigeyoshi; Imai, Masumi; Takuma, Yutaka; and Kitanosono, Hidehiro, 3,688,555.

Kitanosono, Tatsushi; Mashimo, Yukio; and Takishima, Yoshiyuki, to Canon Kabushiki Kaisha. DC motor control apparatus. 3,678,354, 7-18-72, Cl. 318-294.000.

Kitaoaka, Atsushi: *See—*
Aishima, Itsuo; Sakurai, Hisaya; Kitaoaka, Atsushi; and Katayama, Yoshihiko, 3,632,674.

Fujisaki, Yoshisato; Aishima, Itsuo; Sakurai, Hisaya; Kitaoaka, Atsushi; Kawasaki, Hironobu; and Oshima, Minoru, 3,632,670.

Kitaoaka, Kouichi; and Ichihara, Taku, to Tokyo Shibaura Electric Co., Ltd. FM-FM audio multiplex television broadcasting system with reduction of undesired phase modulation component. 3,659,041, 4-25-72, Cl. 178-5.8.

Kitaoaka, Kouichi; and Ichihara, Taku, to Tokyo Shibaura Electric Co., Ltd. FM-FM audio multiplex unit for television broadcasting system. 3,686,431, 8-22-72, Cl. 178-5.80r.

Kitaoaka, Takashi; and Shirashoji, Akira, to Mitsubishi Denki Kabushiki Kaisha. System for braking electric motor vehicles. 3,670,225, 6-13-72, Cl. 318-270.000.

Kitasato Kenkyusho (Shadan Hojin): *See—*
Hata, Toju; Kamada, Hideo; Wakaki, Shigetoshi; Kudo, Shiro; Tomioka, Keitaro; Mirumo, Hirofuto; Kato, Eturo; and Shimizu, Motoaki, 3,660,578.

Kitaura, Kouichi, to Mitsubishi Denki Kabushiki Kaisha. Product/quotient deriving system. 3,681,586, 8-1-72, Cl. 235-195.000.

Kitaura, Shigeo: *See—*
Nishizawa, Hirofumi; Kitaura, Shigeo; Sumoto, Misao; Komagata, Hideo; and Matsumoto, Hiroshi, 3,690,978.

Kitayama, Naoyuki: *See—*
Watanabe, Makoto; and Kitayama, Naoyuki, 3,633,467.

Kitazato Gakuen: *See—*
Matsumoto, Yoshio; Shirai, Michiko; Saito, Hiroko; Kawashima, Takeshi; and Sakabe, Yuzuru, 3,694,149.

Kitazawa, Ryozo, to Nippon Chemical Kabushiki Kaisha (Nippon Columbia Co., Ltd.). Tape detecting device for tape recorders. 3,633,804, 1-11-72, Cl. 226-11.

Kitazawa, Ryozo, to Nippon Columbia Kabushiki Kaisha (Nippon Columbia Co., Ltd.). Automatic tape cassette recording and playback apparatus. 3,690,587, 9-12-72, Cl. 242-181.000.

Kitazawa, Tohru; Maeda, Hiroshi; Yoshidome, Hideo; and Sakata, Hidehiko, to Kanegafuchi Boseki Kabushiki Kaisha. Polypivalolactone fibers and a method for their manufacture. 3,657,178, 4-18-72, Cl. 260-30.6.

Kitazawa, Yoriya: *See—*
Arakawa, Takaaki; Saeki, Kenji; Sato, Yoshikuni; and Kitazawa, Yoriya, 3,652,705.

Kitazima, Seizo; and Yasuda, Tetuya, to Citizen Watch Co., Ltd. Mechanism for detachably attaching a timepiece movement to a watch casing, especially the middle ring thereof. 3,633,356, 1-11-72, Cl. 58-94.

Kitazume, Susumu; and Kasuga, Osamu, to Nippon Electric Company, Limited. Microwave band-pass filter with higher harmonics rejection function. 3,657,670, 4-18-72, Cl. 333-73.

Kitch, David Martin. Tape retaining arrangement. 3,645,473, 2-29-72, Cl. 242-210.

Kitch, Paul E., to Scott Paper Company. Transparency display apparatus. 3,640,613, 2-8-72, Cl. 353-23.

Kitch, Paul E., to Scott Paper Company. Transparency display apparatus. 3,642,359, 2-15-72, Cl. 353-23.

- Kitch, Paul E., to Scott Paper Company. Film processing apparatus. 3,704,069, 11a28-72, Cl. 355-110.000.
- Kitchell, Joseph Clyde: *See—*
Woodridge, David D.; Kitchell, Joseph Clyde; and Garrett, William R., 3,641,982.
- Kitchell, Barbara S.: *See—*
Massey, Eddie H.; and Kitchell, Barbara S., 3,652,537.
- Kitchell, Barbara S.; and Gerzon, Koert, to Lilly, Eli, and Company. Adducts of aliphatic and araliphatic aldehydes and erythromycinylamine or erythromycinyl B amine. 3,681,322, 8-1-72, Cl. 260-210.00c.
- Kitchen, Alonzo G.; and Szalla, Frank J., to Phillips Petroleum Company. Resinous branched block copolymers. 3,639,517, 2-1-72, Cl. 260-879.
- Kitchen, Clarence E., to McNeil Corporation. Axial plunger pump. 3,663,122, 5-16-72, Cl. 417-269.
- Kitchen, John P.: *See—*
Slominski, Walter V.; Kitchen, John P.; and Mandusky, Jack C., 3,680,157.
- Kitchener, Andrew Rajna, to Electrohome Limited. Bearing assembly for electric motors. 3,704,923, 12-5-72, Cl. 308-132.000.
- Kitchener, Charles J.; and Rumball, Paul G., to USM Corporation. Means for transferring successive flexible work pieces. 3,696,942, 10-10-72, Cl. 214-1.0bb.
- Kitchens, Garry C.; Hochstetler, Alan R.; and Kaiser, Kent, to Givaudan Corporation. Acid isomerization of chamigrenes. 3,678,119, 7-18-72, Cl. 260-666.0py.
- Kitchens, Garry C.; Hochstetler, Alan R.; and Kaiser, Kent, to Givaudan Corporation. Acid isomerization of thujopsene and novel tricyclic olerinic $C_{15}H_{24}$ hydrocarbons formed thereby. 3,681,470, 8-1-72, Cl. 260-666.0py.
- Kitchens, John T., 50% to Kitchens, W. M. Fertilizer distributor tank. 3,658,211, 4-25-72, Cl. 222-185.
- Kitchens, W. M.: *See—*
Kitchens, John T., 3,658,211.
- Kitching, Anthony George; and Brown, Mervyn, to Rolls-Royce Limited. Acoustic linings. 3,640,357, 2-8-72, Cl. 181-33.
- Kite, Francis Ervin: *See—*
Germino, Felix Joseph; Stejskal, Joseph Frank; Christensen, Edwin Hans; and Kite, Francis Ervin, 3,661,895.
- Kitman, Irwin I. Combination burglar and fire alarm. 3,641,571, 2-8-72, Cl. 340-420.
- Kito, Katsumi, to Mitsubishi Denki Kabushiki Kaisha. Safety devices for entrance and exit for moving handrail. 3,670,862, 6-20-72, Cl. 198-16.000.
- Kito, Kiyoharu: *See—*
Chiba, Matsubei; Kito, Kiyoharu; Mizutani, Hiroshi; and Kachi, Masayasu, 3,659,438.
- Kito, Masahiro, to Aisin Seiki Kabushiki Kaisha. Pressure control device for hydraulic brake system of powered vehicles. 3,661,429, 5-9-72, Cl. 303-54.
- Kito, Masahiro, to Aisin Seiki Kabushiki Kaisha. Hydraulic brake pressure control valve assembly. 3,684,330, 8-15-72, Cl. 303-54.000.
- Kitowski, George J. Coin holder with removeable mounting bracket. 3,675,664, 7-11-72, Cl. 133-6.000.
- Kitrell, James R., to Chevron Research Company. Hydrocracking catalyst comprising a layered clay-type crystalline aluminosilicate component, a group VIII component and zinc, and process using said catalyst. 3,632,501, 1-4-72, Cl. 208-60.
- Kitrilakis, Sotiris; and Robinson, Thomas C., to Tecna Corporation. Percutaneous lead device. 3,699,956, 10-24-72, Cl. 128-348.000.
- Kitrilakis, Sotiris, to Tecna Corporation. Surface or lining compatible with blood or other tissue. 3,700,380, 10-24-72, Cl. 3-1.000.
- Kitrilakis, Sotiris S., to Tecna Corporation. Oxygenator. 3,674,440, 7-4-72, Cl. 23-258.500.
- Kitsnik, Henrik M.: *See—*
Enarsson, Knut; and Kitsnik, Henrik M., 3,688,563.
- Kitson, Joshua Wilson, to U.S. Philips Corporation. Refrigerator cabinets. 3,632,011, 1-4-72, Cl. 220-9.
- Kitson, Joshua Wilson, to U.S. Philips Corporation. Refrigerator cabinets. 3,632,012, 1-4-72, Cl. 220-9.
- Kitson, Joshua Wilson, to U.S. Philips Corporation. Refrigerator cabinets. 3,707,243, 12-26-72, Cl. 220-9.00f.
- Kitsuda, Minoru. Cap member for a high-pressure gas container. 3,648,885, 3-14-72, Cl. 220-85.
- Kitta, Kenichi: *See—*
Kumada, Akio; Suzuki, Kenkichi; and Kitta, Kenichi, 3,670,211.
- Kittel, Arthur; and Chvatilsky, Kurt, to Olympia Werke AG. Typebar drive mechanism. 3,643,772, 2-22-72, Cl. 197-14.
- Kittel, Arthur; Frank, Rudi; and Purr, Horst, to Olympia Werke AG. Apparatus for power driven typewriters and similar machines. 3,643,775, 2-22-72, Cl. 197-66.
- Kittel, Clive Francis: *See—*
Tayson, Patrick Arnold; Lewis, Brian Mark; and Kittel, Clive Francis, 3,646,810.
- Kittel, Hermann. Selective printer including settable resiliently driven type wheels. 3,669,016, 6-13-72, Cl. 101-93.00c.
- Kittleman, Edmund T.: *See—*

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Virtanen, Rauno Erkki; and Kivalo, Pekka, 3,649,499.
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Osmolovsky, Jury Anatolievich; and Kizilyaev, Anatoly Serafimovich, 3,675,452.
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Matsuno, Akira; Sasame, Takao; Shimizu, Ikuzo; Kizu, Humio; and Kagawa, Hiroyuki, 3,660,173.
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Umeda, Saburo; Kizuka, Tokio; Iwai, Kiyoshi; Tsunoda, Susumu; and Hayashi, Hideaki, 3,648,945.
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Collin, Rolf Henrik; Kjallstrom, Arne Rudolf; and Thysk, Rune Nils Anders, 3,694,783.
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Kjellberg, Finn Andre; Lemvig, Svend E. N.; and Kjellberg, Bent I., 3,656,191.
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Hokanson, Lyle W.; Savage, James R.; Smith, E. Peter; Levangie, Gilbert; and Klaas, William, 3,669,196.
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Kuiper, Wilhelmus Gerardus; and Klaassen, Anne, 3,671,880.
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Jones, Gordon H.; and Klabunde, Steven E., 3,649,051.
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Seitz, Karl; Klahre, Guenter; and Riat, Henri, 3,655,662.
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Kundt, Edmund; Klaiber, Max; Leitz, Wilfried; and Vom Rath, Herbert, 3,696,955.
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Trattner, Hermann; and Klar, Rudolf, 3,639,161.
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Robba, William A.; and Klasson, George A., 3,697,721.
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Breunich, Theodore R.; and Klatte, Henry B., 3,651,539.
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- Klein, Harold L. Meat ball forming machine. 3,691,594, 9-19-72, Cl. 17-32.000.
- Klein, Harold T.: *See—*
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- Klein, Hyman J.; and Trupin, Bennett W., to Instrument Systems Corporation. Scrap block. 3,662,425, 5-16-72, Cl. 15-245.
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- Klein, Kenneth R.: *See—*
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- Klein, Kenneth R., to Westinghouse Electric Corporation. Transformer slide switch with contact clamping means. 3,673,364, 6-27-72, Cl. 200-16.00c.
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- Grobart, Paul H.; Adams, Robert T.; and Klein, Melvin S., 3,683,165.
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- Karman, Lawrence P.; and Klein, Morris R., 3,636,708.
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- Klein, Paul R. Sound-operated, yes-no responsive switch. 3,688,126, 8-29-72, Cl. 307-116.000.
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- Klein, Ralph Arthur; and Cerchia, Angelo, to Borden, Inc. Canned gel dessert. 3,658,556, 4-25-72, Cl. 99-131.
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- Klein, Robert I.; and Hogg, Walter R., to Coulter Electronics, Inc. Electronic particle detector of the coulter type having conductivity change independence circuitry. 3,706,030, 12-12-72, Cl. 324-71.0cp.
- Klein, Robert J.: *See—*
- Moehlan, Vernon C.; and Klein, Robert J., 3,669,023.
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- Klein, Samuel H. Filter system employing activated carbon porous material and diatomaceous earth. 3,705,651, 12-12-72, Cl. 210-266.000.
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- Klein, Solomon A. Building wall structure. 3,654,067, 4-4-72, Cl. 161-216.
- Klein, Stanley Frank, to Raytheon Company. Memory look ahead connection arrangement for writing into an unoccupied address and prevention of reading out from an empty address. 3,699,535, 10-17-72, Cl. 340-172.500.
- Klein, Stanley R. Disposable litter package having a scraping blade. 3,676,887, 7-18-72, Cl. 15-104.800.
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- Klein, Thomas; and Faggin, Federico, to Fairchild Camera and Instrument Corporation. Doped semiconductor electrodes for MOS type devices. 3,673,471, 6-27-72, Cl. 317-235.00r.
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- Klein, Walter. Zoom lens objective for stereoscopic vision microscopes. 3,679,286, 7-25-72, Cl. 350-184.000.
- Klein, William C.: *See—*
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Rickard, Robert K.; and Klein, William C., 3,690,765.
- Klein, William C., to Eastman Kodak Company. Automatic control of color correction of photographic printers. 3,653,759, 4-4-72, Cl. 355-38.
- Klein, William G. Antistatic fabric. 3,678,675, 7-25-72, Cl. 57-140.0by.
- Kleinau, William W. Water craft launching and removal means. 3,665,533, 5-30-72, Cl. 9-1.00t.
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- Kleiner, Eduard, to Ciba-Geigy Corporation. Hindered phenolic esters of cyclic amino carboxylic acids. 3,681,358, 8-1-72, Cl. 260-268.000.
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- Kleiner, Eduard K., to Ciba-Geigy Corporation. Carboxylic acid esters of di-lower alkyl-hydroquinones. 3,657,314, 4-18-72, Cl. 260-465.
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Pacini, Pier Luigi; and Kleiner, Eduard Karl, 3,645,985.
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- Kleiner, Eduard Karl, to Ciba-Geigy Corporation. Benzoate monomers and polymers containing hindered phenolic groups as stabilizers. 3,645,970, 2-29-72, Cl. 260-47.
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- Kleiner, Willy. Device for the rinsing of body cavities. 3,669,101, 6-13-72, Cl. 128-66.
- Kleinerman, Marcos. Infrared image converter. 3,639,765, 2-1-72, Cl. 250-83.3.
- Kleinert, Werner L. Table or seating device. 3,664,275, 5-23-72, Cl. 108-150.
- Kleinewefers, Joh., Sohne: *See—*
Schiffer, Gunter, 3,643,474.
Schlunke, Jurgin, 3,665,846.
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- Kleinewefers, Joh., Sohne Maschinenfabrik: *See—*
Junk, Dieter; Schlunke, Jurgin; and Boixen, Heinz, 3,672,018.
Schlunke, Jurgin; and Junk, Dieter, 3,667,380.
- Kleinfelder, Walter J.: *See—*
Gukelberger, Thomas F., Jr.; and Kleinfelder, Walter J., 3,682,729.
- Kleingartner, Charles A.: *See—*
Mulkey, Owen R.; Kleingartner, Charles A.; and Zoutte, Arnold A., 3,665,458.
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Holzgruber, Wolfgang; and Kleinhagauer, Otmar, 3,660,584.
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- Kleinhan, Herbert. Cigarette holder. 3,685,522, 8-22-72, Cl. 131-198.00a.
- Kleinhans, Robert J.: *See—*
Bernett, Frank E.; and Kleinhans, Robert J., 3,706,696.
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- Kleinman, Mitchell: *See—*
Lesk, Norman; and Kleinman, Mitchell, 3,669,029.
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Young, Gary Clifford; and Kleinpeter, Joseph A., 3,696,587.
- Kleinschmidt, Hans-Joachim, to Gelenkwellenbau GmbH. Universal shaft. 3,633,383, 1-11-72, Cl. 64-23.
- Kleinschmidt, Hans-Joachim; and Teinert, Karl-Heinz, to Gelenkwellenbau GmbH. Constant velocity sliding joint coupling. 3,643,468, 2-22-72, Cl. 64-8.
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- Kleinschmidt, Johann: *See—*
Papajewski, Reinhold; and Kleinschmidt, Johann, 3,695,200.
- Kleinschmidt, Johann O.; Walter, Heinz E.; and Holl, Helmar H., to Singer Company, The, mesne. Cooling systems for sewing machine driving units. 3,667,413, 6-6-72, Cl. 112-220.000.
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Bowen, Richard E.; and Kleinschmidt, Walter J., 3,632,748.
- Kleinschnitz, Andrew J., to Delta Data Systems Corporation. Video display terminal with automatic paging. 3,683,359, 8-8-72, Cl. 340-324.00a.
- Kleinwachter, Hans: *See—*
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Brylka, Rudolf; and Kleinwachter, Hans-Jurgen, 3,666,174.
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Paterick, Robert J.; Llana, Eugenio R.; and Kleman, Jerry L., 3,700,239.
- Klemas, Vytautas: *See—*
Sauer, Walter Edwin; and Klemas, Vytautas, 3,665,300.
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- Klemenhausen, Dale A., to Toro Manufacturing Corporation. Reel mower blade adjustment. 3,680,293, 8-1-72, Cl. 56-249.000.
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- Klemm, Edwin O.: *See—*
MacKopzie, John D.; and Klemm, Edwin O., 3,651,313.
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Adler, Stanford L.; and Klemm, Kai, 3,684,450.
- Klemm, Laurence J.: *See—*
Brown, Lloyd H.; and Klemm, Laurence J., 3,645,942.
- Klemmensen, Daniel F.: *See—*
Mast, William C.; and Klemmensen, Daniel F., 3,649,581.
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Dickopp, Gerhard; Klemp, Hans-Joachim; Redlich, Horst; and Schuller, Eduard, 3,652,809.
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- Klenco Corporation: *See—*
Rainey, George E.; Heidmeyer, Donald H.; and Davis, Donald E., 3,641,618.
- Klendauer, Wolfgang: *See—*
Gerick, Gunter; and Klendauer, Wolfgang, 3,693,588.
- Klender, Gerald J.: *See—*
Hinckley, Paul D.; Klender, Gerald J.; and Lambiott, Jerry F., 3,686,362.
- Klenholz, Eldon W., to Colorado State University Research Foundation. Method for promoting weight gain in bronze turkeys. 3,639,584, 2-1-72, Cl. 424-127.
- Klenk, Ludwig; Strutzel, Hans; and Sobottka, Richard, to Kalle Aktiengesellschaft. Sausage casings of synthetic high-polymer thermoplastic material. 3,679,435, 7-25-72, Cl. 99-176.000.
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Lee, Robert L.; Schwartz, Jacob L.; and Klepa, Peter P., 3,694,919.
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- Klesper, Hugo: *See—*
Busse, Oswald; and Klesper, Hugo, 3,682,322.
Busse, Oswald; and Klesper, Hugo, 3,684,092.
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Smith, Peter D.; and Kletecka, George, 3,669,962.
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Froning, Herman D., Jr.; Hopkins, Dean F.; and Klevatt, Paul L., 3,637,167.
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Wickham, William T.; Brown, Frank; Kleykamp, Donald L.; and Kossuth, Otto, 3,636,285.
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Tuttle, Gary G.; and Klick, Douglas H., 3,690,008.
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Breen, Bernard P.; Lawver, Bill R.; and Kliegel, James R., 3,651,644.
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Glasow, Gunthard; Grosse, Klaus; Hykel, Knut; Schleifer, Werner; Karste, Eberhard; and Kliche, Helmut, 3,696,766.
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Hobson, Willis S.; Gregory, John T.; and Klienhaus, Clarence H., 3,697,388.
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Danielson, Arthur Daniel; Klier, Lyle Charles; and O'Brien, John D., 3,645,735.
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Dorall, Arthur G., 3,690,453.
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Rutes, Viktor Savelievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballad, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, Anatoly Ivanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosochenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.
- Klimashko, Vladimir Vasilievich: *See—*
Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Typtsin, Konstantin Konstantinovich; Klimashko, Vladimir Vasilievich; and Plavskikh, Vladimir Dmitrievich, 3,651,874.
- Klimchuk, Ivan Petrovich: *See—*
Tatiansko, Nikolai Vasilievich; Tsybal, Alexandr Gavrilovich; Stetsenko, Vladimir Vasilievich; Isikov, Sergei Alexandrovich; Rodenko, Fedor Leontievich; Betcher, Alexandr Samuilovich; Shamrai, Petr Dmitrievich; Dulya, Mikhail Afanasievich; Dudka, Viktor Vasilievich; Klimchuk, Ivan Petrovich; and Dolgov, Anatoly Mikhailovich, 3,664,431.
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Berg, Arthur A.; and Klimek, Boleslaw, 3,696,711.
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Huber, Manfred; Klimek, Norbert; and Dee, Kenneth Herbert William, 3,673,956.
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Khrenov, Konstantin Konstantinovich; Gursky, Pavel Ivanovich; Shulman, Grigory Alexandrovich; Klimenko, Gennady Alexeevich; Kirdo, Ivan Viktorovich; Dmitrenko, Georgy Viktorovich; Yagupov, Ivan Nikolaevich; Tsyrlin, Mark Irmovich; Novikov, Anatoly Petrovich; and Puzov, Filimon Efimovich, 3,688,382.
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Stoy, Vladimir; Stol, Miroslav; Prokopova, Helena; and Kliment, Karel, 3,691,263.
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- King, Julian P., Jr.; and Klimmek, Norman, 3,653,110.
- Klimov, Vladimir Alexeevich: *See*—
Tomilov, Andrei Petrovich; Klimov, Vladimir Alexeevich; and Varshavsky, Semen Lvovich, 3,661,739.
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Bastone, Andrew L.; Boecker, Justin R.; and Klimpl, Fred E., 3,655,468.
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Jansen, Hansjorg; Wildi, Paul; and Kline, James A., 3,643,480.
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Rogers, Alan B.; Sebring, Michael; and Kline, Ralph W., 3,658,558.
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Kangas, Larry G.; and Kline, Robert J., 3,643,629.
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Acker, Philip Paul; and Pellerano, Cesare Enrico Giuseppe, 3,646,019.
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- Kling, Hans: *See*—
Jansen, Gunter; and Kling, Hans, 3,656,341.
- Kling, Harry C.: *See*—
Ake, Nelson E.; and Kling, Harry C., 3,698,976.
- Kling, Harry P.: *See*—
Frank, Louis; and Kling, Harry P., 3,645,703.
- Kaufman, William M.; and Kling, Harry P., 3,667,286.
- Kling, Horst: *See*—
Ortlieb, Dieter; Thomas, Joachim; Stockburger, Horst; Birkhold, Erich; and Kling, Horst, 3,688,730.
- Klingaman, Dean C.: *See*—
Page, Russell D.; Klingaman, Dean C.; and Scholl, Roland D., 3,703,931.
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Klinge, James L., 3,663,290.
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- Klingelhoefer, William Christian: *See*—
Scheirer, David E.; and Klingelhoefer, William Christian, 3,684,434.
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Kanning, Donald C., 3,680,442.
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- Klinger, Isaac: *See*—
Friedman, Mitchell; Kamensky, Louis A.; and Klinger, Isaac, 3,705,771.
- Kamensky, Louis A.; and Klinger, Isaac, 3,662,176.
- Klinger Manufacturing Company, Ltd., The: *See*—
Gilchrist, Reginald Selby, 3,656,288.
- Klinger, Robert H., Sr.: *See*—
Null, Cecil A.; and Klinger, Robert H., Sr., 3,682,036.
- Klinger, Robert, Kunststoff Spritzgusswerk, Firma: *See*—
Hugler, Klaus, 3,707,163.
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Metcalf, James F.; and Klingerman, Robert H., 3,696,223.
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Obrecht, Robert P.; Dao, Thomas; and Klingman, Gilbert E., 3,634,200.
- Klingsberg, Erwin, to American Cyanamid Company. Chloronaphtho dithiol compounds and a method for their preparation. 3,636,048, 1-18-72, Cl. 260-327.
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Haas, Herbert G.; Munk, Edmund; Fink, Alfred; and Klink, Erich, 3,663,137.
- Klink, Howard Nassime: *See*—
Jarvela, Gary Nicholas; and Klink, Howard Nassime, 3,690,290.
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Daimler, Wolfgang; and Klintschar, Gerfried, 3,658,736.
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- Klippan GmbH, Firma: *See*—
Ockel, Gustav, 3,668,747.
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- Klitze, Loren J., to Hoerner-Waldorf Corporation. Film dispenser. 3,679,146, 7-25-72, Cl. 242-55.530.
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Bernutz, Johannes; and Kliver, Erich, 3,636,503.
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Paton, Boris Evgenievich; Latash, Jury Vadimovich; Medovar, Boris Izrailevich; Emelianenko, July Georgievich; and Kljujev, Mikhail Markovich, 3,670,089.
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Andoniev, Sergei Mikhailovich; Alexandrov, Nikolai Nikitovich; Klochev, Nikolai Ivanovich; Kulikov, Vasily Ivanovich; and Filipiev, Oleg Vladimirovich, 3,690,633.
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Hoyer, Manfred; and Welke, Helmut, 3,682,019.
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Wagner, Gerhard; Kroll, Friedrich; Gleich, Horst; and Kessler, Georg, 3,661,114.
- Klockner-Humboldt-Deutz Aktiengesellschaft: *See*—
Decker, Hanns; Hurtmanns, Heinz; and Stockmann, Helmut, 3,692,249.
- Deussner, Herbert, 3,645,513.
- Hahn, Wilhelm; and Hoffmann, Helmut, 3,635,026.
- Heckmann, Wolfgang, 3,638,797.
- Howe, Hans-Ulrich, 3,659,568.
- Matzen, Max, 3,672,385.
- May, Oswald, 3,704,909.
- Musketa, Alfred, 3,661,479.
- Oswald, May, 3,686,935.
- Reulecke, Wilhelm; Litzener, Toni; and Winter, Otto, 3,650,691.
- Spiller, Richard; Moser, Gottfried; and Berthold, Walter, 3,690,395.
- Wagner, Gerhard; Kroll, Friedrich; Gleich, Horst; and Kessler, Georg, 3,682,126.
- Klockner-Werke AG: *See*—
Bell, Gunter, 3,686,874.
- Geck, Gunter; and Langhammer, Hans Jurgen, 3,669,434.
- Kuhn, Max; Bell, Gunter; and Watermann, Willy, 3,702,061.
- Spies, Klaus; and Rinio, Johannes, 3,633,972.
- Klockow, Michael: *See*—
Unger, Richard; Seitz, Georg; Klockow, Michael; and Mehrhof, Werner, 3,686,164.
- Kloimstein, Engelbert: *See*—
Schonbeck, Rupert; and Kloimstein, Engelbert, 3,663,546.
- Kloker, Werner: *See*—
Eimers, Erich; Rudolph, Hans; and Kloker, Werner, 3,646,160.
- Gossens, Hubert; Kammermeier, Jurgen; and Kloker, Werner, 3,679,539.
- Klomp, Cornelis Johannes: *See*—
Van Oosterhout, Gerard Willem; Lemmen, Hendrikus Johannes; and Klomp, Cornelis Johannes, 3,679,476.
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Braumann, Gundokar; Klor, Walter; and Huber, Albert, 3,670,272.
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Kaufman, Vern F.; Klose, Alvin A.; and Pool, Morris F., 3,694,856.
- Klose, Frederick M.: *See*—
Reimer, George M.; and Klose, Frederick M., 3,654,883.
- Klose, Gerhard: *See*—
Fowler, William Frank, Jr.; and Klose, Gerhard, 3,681,127.
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Feinleib, Julius; Klose, Peter H.; and Ovshinsky, Stanford R., 3,678,852.
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Mitchell, William A.; and Klose, Robert, 3,682,648.
- Klose, Robert E.: *See*—
Glicksman, Martin; Klose, Robert E.; and Kirkeby, Richard D., 3,684,521.
- Kaplow, Milton; and Klose, Robert E., 3,640,731.
- Klosek, Felix P.: *See*—
Nauman, Edward B.; Szabo, Ted T.; Klosek, Felix P.; and Kaufman, Stephen, 3,668,161.
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Tsenter, Boris Ioselevich; Sergeev, Vyacheslav Mikhailovich; and Kloss, Alexandr Ilich, 3,669,744.
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Herte, Lawrence F.; Kloss, Frank R.; Lane, George C.; and Skinner, James R., 3,632,494.
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- Kloss, Ingo: *See*—
Jagdt, Reinhard; and Kloss, Ingo, 3,644,022.
- Kloss, Wilfried: *See*—
Eggensperger, Heinz; Franzen, Volker; Diehl, Karl-Heinz; and Kloss, Wilfried, 3,646,110.
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Eggensperger, Heinz; Franzen, Volker; and Kloss, Wilfried, 3,676,471.
- Klosterhuber, Robert: *See*—
Eyb, Wolfgang; and Klosterhuber, Robert, 3,680,654.
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Jung, Gerhard; and Klotgen, Gerhard, 3,651,095.
- Kloth, James Albert: *See*—
Vigeant, George Henry; and Kloth, James Albert, 3,683,319.
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- Klothen, Irving: *See*—
Patterson, Paul Raymond; Fry, Darryl Diamond; and Klothen, Irving, 3,689,551.
- Klotinsh, Erik Ernestovich: *See*—
Bergmanis, Karlis Alfredovich; Klotinsh, Erik Ernestovich; and Matis, Imant Gustovich, 3,694,742.
- Klotinsh, Erik Ernestovich: *See*—
Bergmanis, Karlis Alfredovich; Klotinsh, Erik Ernestovich; and Matis, Imant Gustovich, 3,671,857.
- Klotmann, Georg: *See*—
Pommer, Horst; Seid, Bernhard; Nuerrenbach, Axel; Klotmann, Georg; and Grassner, Hans, 3,681,466.
- Klotz, James M.: *See*—
Phelps, Fred L., Jr.; and Klotz, James M., 3,656,975.
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Eckstein, Walter; and Klotz, Roland, 3,656,389.
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Izen, Manuel; and Klotzer, George, 3,649,417.
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Bretschneider, Hermann; Klotzer, Wilhelm; and Franzmair, Rudolf, 3,665,012.
Klover, Richard S., to Pak-Well Corporation. Notched flap envelope. 3,650,462, 3-21-72, Cl. 229-68.
Klox, Inc.: *See*—
Verner, Dalton R., 3,688,073.
Kluheff, Nicholas S.: *See*—
Adler, Imre; Felts, Louis; and Kluheff, Nicholas S., 3,642,153.
Klug, Hans: *See*—
Marx, Matthias; Pohlemann, Heinz; and Klug, Hans, 3,644,316.
Klug, Hans, to Meyer, Wilhelm, Firma. Lock for double-barreled firearm. 3,686,786, 8-29-72, Cl. 42-42,000.
Klug, James R.: *See*—
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Lichtenvort, Uwe; Kluge, Johannes; and Schleyer, Meinolf, 3,704,355.
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Klein, Hans; and Kluger, Wolfgang, 3,656,717.
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Gortnar, Franc; Zalokar, Zarko; Klun, Fedor; and Bulog-Gortnar, Velenka, 3,656,570.
Klund, William E., to United States of America, Navy. Fourier coefficient generator. 3,636,333, 1-18-72, Cl. 235-156.
Klundt, Irwin L.: *See*—
Biel, John Hans; and Klundt, Irwin L., 3,676,492.
Klundt, Irwin L.; Lengua, Robert; and Warawa, Edward J., to Aldrich Chemical Company, Inc. 3,4-Dicarboxy- β -phenethylcarbamate acid, ethyl ester in treating parkinsonism. 3,657,452, 4-18-72, Cl. 424-300.
Klusha, Via Ekabovna: *See*—
Giller, Solomon Aronovich; Sokolov, Georgy Petrovich; Kimenis, Agis Adolfovich; and Klusha, Via Ekabovna, 3,661,929.
Klusmann, Eugene B.: *See*—
Ditter, Jerome F.; Klusmann, Eugene B.; and Williams, Robert E., 3,660,494.
Klussendorf, Siegfried: *See*—
Augustin, Horst; Klussendorf, Siegfried; and Kofer, Konrad, 3,663,445.
Klutcho, Sylvester: *See*—
Sonntag, Arch Christian; Klutcho, Sylvester; and Shavel, John, Jr., 3,649,644.
Von Strandtmann, Maximilian; and Klutcho, Sylvester, 3,646,138.
Von Strandtmann, Maximilian; Klutcho, Sylvester; and Shavel, John, Jr., 3,699,128.
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Klyn, Paul: *See*—
Von Ende, Robert J., 3,642,122.
Kmecak, Ronald A.: *See*—

Kovach, Stephen M.; and Kmecak, Ronald A., 3,679,773.
Kovach, Stephen M.; Patrick, Ralph E.; and Kmecak, Ronald A., 3,700,745.
Patrick, Ralph E.; Kmecak, Ronald A.; and Kovach, Stephen M., 3,686,340.
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K.M.P. Lake Pump Mfg. Co.: *See*—
Parish, Albert A., 3,667,861.
KMS Industries, Inc.: *See*—
Bogue, David L.; and Fisher, William E., 3,654,018.
Burzan, Vernon J., 3,677,639.
Dexter, William R.; Jahnke, William R.; and Kimmen, Edward, 3,684,304.
Face, William W.; Katz, Harold W.; and Miller, Murray H., 3,668,307.
Hall, William D.; and Shaefer, Lewis H., 3,677,223.
Hall, William D.; and Burzan, Vernon J., 3,677,623.
Kirby, Herbert D.; Nearhoof, George L.; and Glenn, Culler Jimmie, 3,685,900.
Lee, Charles K.; and Burzan, Vernon J., 3,677,154.
Thomas, Carlton E., 3,703,724.
Thomas, Carlton E.; and Cochran, Gary D., 3,704,949.
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Knabe, Herbert: *See*—
Newman, Douglas A.; and Knabe, Herbert, 3,637,414.
Knabe, Uwe: *See*—
Quest, Karl; Heckmann, Werner; and Knabe, Uwe, 3,643,398.
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Knaeps, Alfonsus Gillielmus: *See*—
Hermans, Hubert Karel Frans; Knaeps, Alfonsus Gillielmus; and Willems, Joannes Josephus Maria, 3,679,686.
Knape & Vogt Manufacturing Company: *See*—
Pullan, Ronald C., 3,695,569.
Knape, Richard S., to General Motors Corporation. Fuel injection pump. 3,648,673, 3-14-72, Cl. 123-140.
Knapman, John E.: *See*—
Basham, Edgar W.; Knapman, John E.; Pollard, Gordon D.; Anthony, John B.; and Munro, Alan C., 3,642,289.
Knapp, Alfons. Device for aerating a jet of water. 3,672,574, 6-27-72, Cl. 239-428,500.
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Roe, George Ryburn; Sheehan, Gerard Martin; and Knapp, Donald Edward, 3,649,323.
Knapp, Earle L., to Armco Steel Corporation. Apparatus for finishing metallic coating on a ferrous strand. 3,687,105, 8-29-72, Cl. 118-405,000.
Knapp, Furn F., Jr.: *See*—
Nicholas, Harold J.; and Knapp, Furn F., Jr., 3,686,235.
Knapp, Gordon G.: *See*—
Coffield, Thomas H.; Knapp, Gordon G.; and Jolly, James G., 3,684,491.

Knapp, Guenter; and Spitz, Hans. Method of quantitatively determining iodine and thyroid hormones. 3,645,691, 2-29-72, Cl. 23-230.
Knapp, Heinrich: *See*—
Eckert, Konrad; Knapp, Heinrich; Schwartz, Reinhard; and Schuster, Gregor, 3,680,535.
Eckert, Konrad; and Knapp, Heinrich, 3,703,888.
Romann, Peter; Knapp, Heinrich; and Fussner, Paul, 3,680,794.
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Knapp, Lowell W.: *See*—
Greenfield, Stephen J.; Howard, Anthony; and Knapp, Lowell W., 3,697,063.
Knapp, Max C. Bug house. 3,665,944, 5-30-72, Cl. 135-1,00r.
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Knapp, Philip B., to Aptek Industries, Inc. Seed-containing pellet-dispensing equipment. 3,640,428, 2-8-72, Cl. 221-211.
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Stobbe, Richard P.; and Knapp, Richard V., 3,700,904.
Knapp, Robert S., to Hoover Company, The. Steam-dry iron. 3,703,777, 11-28-72, Cl. 38-77,830.
Knapp, Russell Daniel: *See*—
Wittlinger, Harold Allen; Wheatley, Carl Franklin, Jr.; and Knapp, Russell Daniel, 3,671,782.
Knapp, Walter; and Ramsauer, Kurt, to Agfa-Gevaert Aktiengesellschaft. Photographic printer. 3,694,082, 9-26-72, Cl. 355-97,000.
Knapp, Willard E.: *See*—
Ball, Frank C.; and Knapp, Willard E., 3,685,544.
Knapp, William A.: *See*—
Carl, David G.; Kietzman, Richard C.; and Knapp, William A., 3,631,837.
Knappe, La Verne F., to International Business Machines Corporation. Mechanical energy storage and release device. 3,649,857, 3-14-72, Cl. 310-87.
Knappstein, Johannes; and Stratmann, Josef, to Still, Carl, Firma. Method and apparatus for the evacuation of coke from a furnace chamber. 3,652,403, 3-28-72, Cl. 201-39.
Knappstein, Johannes, to Still, Carl, Firma. Free fall charging apparatus for a coking furnace. 3,682,339, 8-8-72, Cl. 214-35,00r.
Knapsack Aktiengesellschaft: *See*—
Ahlgrim, Michael; Kandler, Joachim; Lenz, Hans-Joachim; Mietens, Gerhard; and Ott, Willy, 3,647,514.
Baader, Herbert; Sennewald, Kurt; Reis, Helmut; and Viertel, Gunther, 3,649,700.
Baader, Herbert; Opitz, Wolfgang; and Jacobowsky, Armin, 3,652,455.
Baader, Herbert; Sennewald, Kurt; Reis, Helmut; and Viertel, Gunther, 3,689,579.
Cremer, Joseph; and Panter, Herbert, 3,661,763.
Dany, Franz-Josef; Komorniczky, Klaus; Roszinski, Hilmar; and Kalteyer, Gerhard, 3,663,174.
Dorn, Friedrich Wilhelm; Frank, Klaus; Gleisberg, Dietrich; Kandler, Joachim; and Thiel, Hans Dieter, 3,649,370.
Ehlers, Klaus-Peter; Harnisch, Heinz; and Lischka, Siegfried, 3,637,346.
Gabler, Hellmut; Harnisch, Heinz; Heymer, Gero; Merkenich, Karl; and Pirig, Wolf-Dieter, 3,639,287.
Gehrig, Oskar; and Harnisch, Heinz, 3,656,896.
Gerhardt, Wilfried; and Harnisch, Heinz, 3,676,100.
Haas, Hans, 3,683,028.
Harnisch, Heinz; Thummmler, Ursus; Traulsen, Karl; and Hartlapp, Gerhard, 3,656,898.
Heymer, Gero; Landgraber, Herbert; and Merkenich, Karl, 3,639,289.
Heymer, Gero; and Harnisch, Heinz, 3,645,674.
Heymer, Gero; Gerhardt, Wilfried; and Harnisch, Heinz, 3,653,821.
Kandler, Joachim; Mietens, Gerhard; and Ahlgrim, Michael, 3,653,947.
Kandler, Joachim; Dany, Franz-Josef; Komorniczky, Klaus; and Munch, Peter, 3,705,865.
Kern, Winfried; Heymer, Gero; and Harnisch, Heinz, 3,652,205.
Kirchem, Heinz; and Portz, Wilhelm, 3,702,894.
Krahl, Fritz; Hammel, Dieter; Heymer, Gero; and Harnisch, Heinz, 3,705,232.
Landt, Uwe; Seifert, Helmut; and Brethneider, Otto, 3,700,430.
Mandelkow, Dietrich; and Werner, Hugo, 3,645,789.
Opitz, Wolfgang, 3,686,302.
Preisler, Eberhard; Frorath, Karl-Friedrich; and Strauss, Georg, 3,634,215.
Pusche, Herbert; Sander, Harry; and Neuss, Hans-Wilhelm, 3,666,868.
Roszinski, Hilmar; and Harnisch, Heinz, 3,671,612.

Schneider-Arnoldi, Alfred; Kampmann, Friedrich-Wilhelm; Thiel, Hans-Dieter; Kandler, Joachim; and Gleisberg, Dietrich, 3,676,165.
Seifert, Helmut; Stephan, Hans Werner; and Dorn, Friedrich Wilhelm, 3,692,917.
Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; Glaser, Hermann; and Dyrschka, Helmut, 3,637,819.
Sennewald, Kurt; Ohorodnik, Alexander; and Hardel, Hans-Joachim, 3,639,472.
Sennewald, Kurt; Ohorodnik, Alexander; and Neumaier, Hubert, 3,641,164.
Sennewald, Kurt; Ohorodnik, Alexander; and Dettmeier, Udo, 3,642,929.
Sennewald, Kurt; Hauser, Alfred; and Lork, Winfried, 3,647,867.
Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; Glaser, Hermann; and Dyrschka, Helmut, 3,650,986.
Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; and Glaser, Hermann, 3,655,747.
Sennewald, Kurt; Gehrmann, Klaus; Handte, Heinz; Hauser, Alfred; and Kohl, Georg, 3,657,332.
Sennewald, Kurt; Hauser, Alfred; Gehrmann, Klaus; and Lork, Winfried, 3,658,886.
Sennewald, Kurt; Ohorodnik, Alexander; Hudeck, Joachim; Mittler, Werner; Vierling, Hermann; and Opitz, Wolfgang, 3,660,306.
Sennewald, Kurt; Erpenbach, Heinz; Handte, Heinz; and Lork, Winfried, 3,689,541.
Sennewald, Kurt; Erpenbach, Heinz; Vogt, Wilhelm; Lork, Winfried; and Prinz, Peter, 3,691,096.
Sennewald, Kurt; Erpenbach, Heinz; Handte, Heinz; and Lork, Winfried, 3,692,829.
Sennewald, Kurt; Wesselmann, Rudolf; Holler, Ernst; and Muller, Heinz, 3,702,887.
Vogt, Wilhelm; Sennewald, Kurt; and Glaser, Hermann, 3,674,839.
Wirtz, Peter; Jacobowsky, Armin; Mittler, Werner; and Gerhardt, Wilfried, 3,696,015.
Knapsack-Griesheim Aktiengesellschaft: *See*—
Kribbe, Kurt Willi Harris, 3,655,334.
Knaption, James H., to Tektronix, Inc. Pulse generator for a variable load. 3,654,489, 4-4-72, Cl. 307-252.
Knauer, Hans Ulrich, to International Standard Electric Corporation. Arrangement for the recognition of loop closure in subscriber stations having semiconductor amplifiers fed via the connecting trunk. 3,671,679, 6-20-72, Cl. 179-81,00b.
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Knauer, Paul E., to Magnavox Company, The. Method and apparatus for modifying electrical signals. 3,649,748, 3-14-72, Cl. 178-5.4.
Knauer, Warren L., Jr.: *See*—
Besier, Emil E.; and Knauer, Warren L., Jr., 3,706,844.
Knauer, Wolfgang, to Hughes Aircraft Company. Impedance-increasing method and apparatus as part of a HVDC circuit breaker. 3,657,607, 4-18-72, Cl. 317-11,00c.
Knauf, Nicholas T., to Kimberly-Clark Corporation. Apparatus for pleating and ultrasonically sealing sanitary napkin tab ends. 3,677,861, 7-18-72, Cl. 156-380,000.
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Knauff, Robert J. Color organ and electrical control circuit therefor. 3,635,121, 1-18-72, Cl. 84-464.
Knauff, Gunter: *See*—
Keller, Gunter; Knauff, Gunter; Skuin, Petar; and Vogt, Edwin, 3,649,817.
Knauff, Gunter; Koederitz, Fritz; Painke, Helmut; Reichl, Leopold; Lampe, Hans H.; Vachenaer, Robert; Vogt, Edwin; and Weber, Hermann, to International Business Machines Corporation. Error checking arrangement. 3,659,273, 4-25-72, Cl. 340-172.5.
Knaus, Gilbert M.: *See*—
Barnett, Buford F.; and Knaus, Gilbert M., 3,642,695.
Knausenberger, George E., to United States of America, Air Force. Dynamically stabilized accelerometer and rate gyro device. 3,702,078, 11-7-72, Cl. 73-504,000.
Knausenberger, Martin: *See*—
Barth, Hans; Griess, Wilhelm; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Sagredos, Angelos, 3,663,446.
Barth, Hans; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Griess, Wilhelm, 3,706,675.
Knauth, Walter T. Apparatus for totalizing liquid volumes in a plurality of containers. 3,638,485, 2-1-72, Cl. 73-155.
Knavish, Leonard A.: *See*—
Goldberg, Arnold J.; and Knavish, Leonard A., 3,692,510.

Kneafsey, Adrian W., to Scragg, Ernest, & Sons Limited. Processing of flax derived yarns. 3,670,490, 6-20-72, Cl. 57-156.000.
 Knechel, William F.: See—
 Williams, Carl J., Jr.; and Knechel, William F., 3,642,482.
 Knechel, William F., to Eastman Kodak Company. Antistain agents comprising mixtures of secondary-alkylhydroquinones. 3,700,453, 10-24-72, Cl. 96-74.000.
 Knecht, Walter L. Flooring construction. 3,675,384, 7-11-72, Cl. 52-250.000.
 Knechtel, Wilhelm; Brinkmann, Kurt; and Mohr, Heinrich, 75% to ECE-Elektrostatik und Chemische Entwicklungsgesellschaft mbH., Firma and 25% to Deutsche Edelstahlwerke AG., Firma. Rotatable powder dispensing cylinder for an electrostatic powder image fixing apparatus. 3,643,311, 2-22-72, Cl. 29-125.
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 Knechtges, Donald P.: See—
 Mikofalvy, Bela K.; and Knechtges, Donald P., 3,682,871.
 Knechtges, Donald P.; and Antlfinger, George J., to Goodrich, B. F., Company, The. Heat sensitive latices. 3,702,315, 11-7-72, Cl. 260-29.60m.
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 Knechtli, Ronald C.: See—
 Lian, Kenneth T.; and Knechtli, Ronald C., 3,668,453.
 Lutz, Michael A.; and Knechtli, Ronald C., 3,638,061.
 Knechtel, Wilhelm Josef; and Schaffer, Detlef, to Canon Kabushiki Kaisha, mesne. Electrophotographic apparatus. 3,699,992, 10-24-72, Cl. 137-93.000.
 Kneeland, David. Coupling. 3,677,033, 7-18-72, Cl. 64-28.00r.
 Kneip, Paul Hans Otto Josef: See—
 Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; Kneip, Paul Hans Otto Josef; and Rohite, Oskar Adolf, 3,637,660.
 Kneisel, Joseph P. Lap assembly for roof ridge. 3,693,305, 9-26-72, Cl. 52-276.000.
 Knell, Bernhard; Desfossez, Paul; Hess, Walter; and Schulz, Hans-Dieter, to Concast AG and Schloemann Aktiengesellschaft. Continuous casting method including strand support adjustment. 3,638,713, 2-1-72, Cl. 164-82.
 Knell, Bernhard, to Concast AG. Method of continuously casting steel billets. 3,700,024, 10-24-72, Cl. 164-83.000.
 Knell, Harvey A.; Olthoff, James A.; Scoggin, Barry A.; and Smith, Roger M., to Caterpillar Tractor Company. Self-loading mechanism for a scraper. 3,706,143, 12-19-72, Cl. 37-4.000.
 Knell, Martin: See—
 Dexter, Martin; and Knell, Martin, 3,652,561.
 Dexter, Martin; and Knell, Martin, 3,687,892.
 Dexter, Martin; and Knell, Martin, 3,706,740.
 Kleiner, Eduard Karl; Knell, Martin; and Pacini, Pier Luigi, 3,658,857.
 Knell, Martin; and Klemchuk, Peter P., to Ciba-Geigy Corporation. Preparation of polyfluoroalkyl esters of fumaric and other acids. 3,671,574, 6-20-72, Cl. 260-485.00f.
 Knell, Martin; and Dexter, Martin, to Ciba-Geigy Corporation. Thiodialkanoamidophenol antioxidants. 3,679,744, 7-25-72, Cl. 260-559.00t.
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 Knell, Martin; and Dexter, Martin, to Ciba-Geigy Corporation. Thiodialkanoamidophenol antioxidants. 3,694,375, 9-26-72, Cl. 252-402.000.
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 Knigge, Werner, to International Standard Electric Corporation. Holding arrangement for reed contacts. 3,637,968, 1-25-72, Cl. 200-168.
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 Knight, Edgar: See—
 Cooper, Cyril Walker, 3,697,055.
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 Knight, John C.: See—

Pettit, George R.; Houghton, Leonard E.; Knight, John C.; and Bruschweiler, Fred, 3,687,944.
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 Knights, Evord F., to Union Oil Company of California. Hydrocarbon olefin oxidation. 3,686,287, 8-22-72, Cl. 260-497.00a.
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 Rab, Joseph, 3,672,186.
 Knitter, Heinz: See—
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 Haft, Peter, 3,703,882.
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 Miles, Timothy R.; and Knittle, Raymond C., 3,707,225.
 Knob, Richard W.: See—
 Pierce, Edwin A.; Knob, Richard W.; Roth, Samuel O.; and McKinney, Emery L., 3,643,393.
 Pierce, Edwin A.; Knob, Richard W.; Roth, Samuel O.; and McKinney, Emery L., 3,671,362.
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 Knoche, Richard C.: See—
 Ballsmith, George C.; and Knoche, Richard C., 3,654,975.
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 Sparks, Harold R., 3,680,619.
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 Minasy, Arthur J., 3,678,608.
 Minasy, Arthur J., 3,696,379.
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 Treiber, Hans-Joerg; and Zimmermann, Frank, 3,657,258.
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 Morrison, Andrew Ivar; and Hannah, Bruce R., 3,677,601.
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 Ecsery, Zoltan; Kosa, Ildiko; and Knoll, Jozsef, 3,663,610.
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 Shikata, Kazuo; Nakao, Suekiti; and Knomi, Katsutoshi, 3,671,466.
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 Knoos, Stellan. Method and device for hot gas engine or gas refrigeration machine. 3,698,182, 10-17-72, Cl. 60-24.000.
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 Doherty, Alfred E., Jr.; and Knop, Louis H., 3,645,435.

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Walstad, Dennis C.; and Knope, Walter R., 3,683,237.
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Bachle, Karl; and Knorr, Jürgen, 3,666,039.
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Dantro, Horace F., 3,690,887.
Pollinger, Hans, 3,688,703.
Reitz, Reinhard, 3,701,570.
Strohmer, Alfred; and Rau, Joachim, 3,688,704.
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Baronnet, Pierre; and Katzer, Ernst, 3,684,106.
Baronnet, Pierre; and Katzer, Ernst, 3,692,275.
Schelle, Axel; and Baronnet, Pierre, 3,706,386.
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Kallrath, Gottfried; Knorre, Helmut; Meyer-Simon, Eugen; and Biegler, Hanns, 3,672,937.
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Berry, Daniel Victor; and Knott, Stanley Gerald Thomas, 3,638,460.
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Hardy, Richard W.; Knowlen, Robert B.; Sandifer, Cecil W.; and Plake, William C., 3,670,164.
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Jacobson, Sydney; Knowles, Denis; and Parkur, Derek, 3,674,592.
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Bird, Henry M. B.; Dixon, Geoffrey C.; and Knowles, J. Warwick, 3,658,425.
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Horrobin, Gerald V.; Hutton, John F.; and Knowles, Peter M., 3,642,309.
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Ralston, Robert E.; and Ko, Yung Ling, 3,660,168.
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Ralston, Robert E.; and Ko, Yung Ling, 3,669,754.
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Palmer, Roy M.; and Kobayashi, Francis M., 3,653,682.

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Yamashita, Maki; and Kobayashi, Haruo, 3,690,228.
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Tanaka, Atsushi; Kobayashi, Hiroomi; Kudo, Teizo; and Miku-mo, Masatoshi, 3,665,057.
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Asano, Hiroaki; Koide, Tsuyoshi; Ohtsu, Ikuro; Hayashi, Shozo; and Kobayashi, Hiroshi, 3,643,383.
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Hasegawa, Tatsuo; and Kobayashi, Ikuya, 3,693,151.
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Wakamiya, Kinji; and Kobayashi, Isamu, 3,694,276.
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Osogawa, Hideru; and Kobayashi, Katuei, 3,641,663.
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- Kobayashi, Kazuhiko: *See*—
Saito, Nagao; Kobayashi, Kazuhiko; and Niwa, Susumu, 3,655,936.
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Katto, Hisao; Kobayashi, Kazunari; Koga, Yasushi; and Koyama, Machiko, 3,668,095.
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Maeda, Hisao; and Kobayashi, Keisuke, 3,704,457.
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Inaba, Seiueemon; and Kobayashi, Kengo, 3,657,627.
- Kobayashi, Kenro: *See*—
Higashi, Seiya; and Kobayashi, Kenro, 3,700,412.
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Yonezawa, Teruhiko; Kobayashi, Kesanoo; and Kobayashi, Teruo, 3,669,658.
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Morikawa, Kazumasa; Kobayashi, Makoto; Sato, Hiromitsu; and Nakazima, Jun, 3,698,652.
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Nakajima, Tositaka; Okubo, Tomoyuki; Kobayashi, Manabu; and Yoshioka, Kimio, 3,663,943.
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Koshikawa, Tsuneji; and Kobayashi, Masaharu, 3,634,759.
- Kobayashi, Masahiro: *See*—
Uchiyama, Sei; Kaku, Eiichi; Kobayashi, Masahiro; Zoda, Takamichi; and Fujimoto, Shunsaku, 3,657,871.
- Kobayashi, Misao: *See*—
Irie, Kouhei; Kobayashi, Misao; and Shimamura, Masaru, 3,668,458.
- Kobayashi, Nobuki: *See*—
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,662,000.
- Kobayashi, Norio: *See*—
Omichi, Hiromu; and Kobayashi, Norio, 3,654,159.
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Nakanishi, Michio; Kobayashi, Ryosuke; Abe, Kozo; and Mukai, Toshihiko, 3,641,060.
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Sato, Shosuke; Saito, Shigeru; and Kobayashi, Saburo, 3,665,309.
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Ueno, Hiroshi; and Kobayashi, Seihichi, 3,663,354.
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Nakajima, Masaki; Hosogane, Tadayuki; Kobayashi, Shoichi; and Ishihara, Shigenobu, 3,644,579.
- Takahashi, Akira; Kojima, Hiroo; Ogawa, Masao; Osuka, Hiroshi; and Kobayashi, Shoichi, 3,673,279.
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Kanda, Kaoru; and Kobayashi, Tadahiro, 3,654,618.
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Hori, Yasuaki; Yoneda, Kazuo; and Kobayashi, Takahiko, 3,689,441.
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Oke, Syoichi; and Kobayashi, Takanori, 3,647,039.
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Suenaga, Masanobu; Machii, Tetsuo; Sawano, Takahiro; Kobayashi, Takehiko; Dengo, Tadao; and Nakai, Tetsuzo, 3,648,121.
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Hirakawa, Hiroshi; and Kobayashi, Terumasa, 3,645,391.
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Kimura, Shiro; Kobayashi, Teruo; Ishige, Sadao; and Kiritani, Masataka, 3,663,571.
- Kimura, Shiro; Kobayashi, Teruo; and Ishige, Sadao, 3,666,525.
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Yoneda, Naoto; Ishihara, Teruo; Kobayashi, Tetsuji; Kondo, Yasuzo; Okumura, Kentaro; Kojima, Michio; and Nose, Takashi, 3,673,195.
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Mitsui, Tsuneo; Nakayama, Keizo; Kobayashi, Tetsuo; and Okuda, Kenzo, 3,657,728.
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Shoji, Yoshio; Kobayashi, Toshiaki; and Kudo, Tadao, 3,661,682.
- Kobayashi, Toshihiko: *See*—
Oshima, Shintaro; and Kobayashi, Toshihiko, 3,648,362.
- Oshima, Shintaro; Kobayashi, Toshihiko; and Kamibayashi, Tetsusaburo, 3,657,075.
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Kashiwa, Norio; Tohoru, Tomoshige; Kobayashi, Toshio; and Honma, Shiro, 3,705,886.
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Kawabe, Tsuneo; and Kobayashi, Toyooki, 3,656,589.
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Morita, Ken-ichi; and Kobayashi, Tsuneo, 3,657,323.
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- Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,632,573.
- Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,632,574.
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- Yamamoto, Hisao; Okamoto, Tadashi; and Kobayashi, Tsuyoshi, 3,679,672.
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- Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Izumi, Takahiro, 3,702,323.
- Kobayashi, Tunekazu: *See*—
Masuda, Noboru; and Kobayashi, Tunekazu, 3,681,733.
- Masuda, Noboru; and Kobayashi, Tunekazu, 3,681,735.
- Masuda, Noboru; and Kobayashi, Tunekazu, 3,681,736.
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- Honda, Toshio; Kubota, Eishi; Fukuura, Yukio; and Kobayashi, Yoneji, 3,705,868.
 Kobayashi, Yoshinobu: *See—*
 Kurauchi, Noritaka; Tada, Shotaro; Shima, Hiroshi; Hiraoka, Susumu; Nagao, Taichiro; Koyama, Masahiro; Shiraishi, Satoshi; Shindo, Masuo; and Kobayashi, Yoshinobu, 3,674,990.
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 Kobayashi, Yukio: *See—*
 Ishihama, Masaru; and Kobayashi, Yukio, 3,689,804.
 Kobayashi, Yutaka: *See—*
 Sato, Yasunobu; Kobayashi, Yutaka; Takagi, Hiromu; Kumakura, Seiji; Nakayama, Koichi; and Oshima, Takeshi, 3,663,570.
 Kobayasi, Nobuki: *See—*
 Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayasi, Nobuki, 3,647,866.
 Kobe, Inc.: *See—*
 McArthur, Ralph F.; and Geurts, Melle F., 3,653,786.
 McArthur, Ralph F.; Kardos, Max T.; and Geurts, Melle F., 3,659,967.
 McArthur, Ralph F.; and Geurts, Melle F., 3,687,573.
 Kobe Steel, Ltd.: *See—*
 Arikawa, Masayasu; Godai, Tomokazu; Arai, Toshio; Hironosuke, Kada; and Akihiko, Iochi, 3,679,866.
 Arikawa, Masayasu; and Sioyama, Hitosi, 3,688,967.
 Godai, Tomokazu; and Tanaka, Osamu, 3,692,590.
 Masayasu, Arikawa; Motomi, Kano; Katsuro, Iio; and Toshio, Tanaka, 3,669,335.
 Nakamura, Yoshimi; and Kawakami, Heijiro, 3,702,489.
 Otani, Yasuhiko; Ikegami, Yoshio; and Fujio, Tadami, 3,684,202.
 Otani, Yasuhiko, 3,693,898.
 Otani, Yasuhiko, 3,695,525.
 Otani, Yasuhiko; and Ikegami, Yoshio, 3,695,526.
 Yamauchi, Takeshi, 3,704,509.
 Yoshida, Shoushi; Iwama, Atsuki; Okada, Takashi; and Suda, Tetuo, 3,659,973.
 Yoshida, Shoushi; Iwama, Atsuki; Okada, Takashi; and Suda, Tetuo, 3,685,929.
 Yoshida, Shoushi; Iwama, Atsuki; Okada, Takashi; and Suda, Tetuo, 3,690,795.
 Kobel, Erwin H.: *See—*
 Smith, Harry A.; and Kobel, Erwin H., 3,661,814.
 Kobelentz, Otto: *See—*
 Fick, Franz; and Kobelentz, Otto, 3,693,017.
 Kober, AG, Firma: *See—*
 Koester, Waldemar, 3,703,014.
 Kober, Alois, Ag Maschinenfabrik: *See—*
 Kober, Kurt, 3,687,479.
 Kober, Ehrenfried H.: *See—*
 Churchill, John W.; Kober, Ehrenfried H.; and Scott, Peter H., 3,639,482.
 Smith, Eric; and Kober, Ehrenfried H., 3,637,785.
 Smith, Eric; and Kober, Ehrenfried H., 3,644,462.
 Trotz, Samuel I.; Hurley, Thomas J., Jr.; and Kober, Ehrenfried H., 3,660,458.
 Kober, Ehrenfried H.; and Schnabel, Wilhelm J., to Olin Mathieson Chemical Corporation. Preparation of isocyanates from carbodiimides. 3,632,620, 1-4-72, Cl. 260-453.
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 Kober, Heinrich: *See—*
 Abeck, Wilhelm; Kober, Heinrich; and Seidel, Bernhard, 3,652,334.
 Kober, Kurt, to Kober, Alois, Ag Maschinenfabrik. Wheel axle for single-axle vehicle. 3,687,479, 8-29-72, Cl. 280-124.00r.

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 Koberstein, Edgar; Lussling, Theodor; Noll, Ewald; Suchsland, Helmut; and Weigert, Wolfgang, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Catalyst for the oxidation of alkenes. 3,639,269, 2-1-72, Cl. 252-437.
 Koberstein, Edgar; and Nischk, Wolfgang, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Method of reacting HCN with unsaturated compound with dimethyl sulfoxide solvent. 3,644,467, 2-22-72, Cl. 260-465.
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 Kobetz, Paul: *See—*
 Ashby, Eugene C.; and Kobetz, Paul, 3,647,399.
 Nelson, Gunner E.; Becker, Warren E.; and Kobetz, Paul, 3,651,064.
 Thomas, Wilford H.; Kobetz, Paul; and Giraitis, Albert P., 3,661,952.
 Kobetz, Paul; and Becker, Warren E., to Ethyl Corporation. Method of manufacturing alkylaluminum compounds. 3,687,994, 8-29-72, Cl. 260-448.00a.
 Kobetz, Paul, to Ethyl Corporation. Chemical process of separating olefins from aluminum alkyls by forming complexes of the aluminum alkyls which are insoluble in the olefins. 3,689,584, 9-5-72, Cl. 260-677.00a.
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 Kobinger, Walter: *See—*
 Eberlein, Wolfgang; Nickl, Josef; Heider, Joachim; Dahms, Gerhard; and Kobinger, Walter, 3,696,091.
 Kobitsu, Koichi: *See—*
 Tanaka, Yutaka; and Kobitsu, Koichi, 3,652,783.
 Koblenz, Morris A.: *See—*
 Di Milia, Vincent; Halperin, Arnold; and Koblenz, Morris A., 3,689,747.
 Kobler, Paul. Sheared assembly for mechanical shaver. 3,644,991, 2-29-72, Cl. 30-34.2.
 Kobler, Paul. Mechanically held inner knives of shearheads outside said heads on electrical and mechanical shavers. 3,664,019, 5-23-72, Cl. 30-41.000.
 Kobler, Richard; and Fagan, William F., to McGraw-Edison Company. Endless loop tape recorder. 3,698,723, 10-17-72, Cl. 274-40.0r.
 Kobler, Robert James, to AMP Incorporated. Electrical housing member. 3,648,213, 3-7-72, Cl. 339-217.
 Kobler, Ulrich: *See—*
 Bosch, Werner; and Kobler, Ulrich, 3,701,066.
 Kobo Kohler & Bovenkamp G.m.b.H., Firma: *See—*
 Assauer, Helmuth, 3,659,702.
 Koboldt, Melvin A.: *See—*
 Kennedy, James E.; and Koboldt, Melvin A., 3,690,506.
 Kobori, Takeo: *See—*
 Fujisawa, Tamotsu; Ohtsuka, Noriko; Kobori, Takeo; and Tsuchihashi, Genichi, 3,706,805.
 Kobori, Toshio: *See—*
 Kuramoto, Yoshio; Okamoto, Akio; and Kobori, Toshio, 3,686,711.
 Kuramoto, Yoshio; and Kobori, Toshio, 3,688,674.
 Tsujimoto, Kayoshi; Kuramoto, Yoshio; and Kobori, Toshio, 3,705,338.
 Kobori, Toshio, to Minolta Camera Kabushiki Kaisha. Electric shutter mechanism for a camera. 3,698,300, 10-17-72, Cl. 95-10.0ct.
 Kobori, Yasuhiro; and Morita, Yukiji, to Kaijo Denki Kabushiki Kaisha; a/k/a Kaijo Denki Co. Ltd. Ultrasonic anemometer. 3,693,433, 9-26-72, Cl. 73-189.000.
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 Kobori, Yasuaburo, to Techikawa Spring Co., Ltd. Air bag table. 3,650,223, 3-21-72, Cl. 108-44.
 Kobr, Zdenek: *See—*
 Jager, Karl; Schlottzka, Jaroslava; and Kobr, Zdenek, 3,659,411.
 Kobryner, Herman H., to Murray Manufacturing Corporation. Bus bar for electric connections. 3,668,591, 6-6-72, Cl. 339-198.

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 Kobusch, Earl W. Method of framing a picture and product thereof. 3,701,209, 10-31-72, Cl. 40-152.100.
 Kobushiki Kaisha Toyota Jido Shokki Seisakusho: *See—*
 Hayashi, Yasutaka; and Arakawa, Hideo, 3,695,023.
 Kobylak, Anthony M.: *See—*
 Bode, Wolfgang W.; Dunlap, Glenn H.; Kobylak, Anthony M.; Richards, Raymond S.; and Pfaender, Lawrence V., 3,654,680.
 Bode, Wolfgang W.; Dunlap, Glenn H.; Kobylak, Anthony M.; Richards, Raymond S.; and Pfaender, Lawrence V., 3,684,468.
 Dunlap, Glenn H.; Kobylak, Anthony M.; and Miller, John E., 3,655,687.
 Kobylak, Joe, to Goodrich, B. F., Company, The. Method for making breathable polyvinyl chloride film. 3,644,259, 2-22-72, Cl. 260-29.6.
 Kobylinski, Tadeusz P.; and Swift, Harold E., to Gulf Research & Development Company. Disproportionation using a catalyst containing thallium. 3,644,559, 2-22-72, Cl. 260-683.
 Kocicich, Mark J.; and Chirash, William, to Colgate-Palmolive Company. Scouring cleanser. 3,702,826, 11-14-72, Cl. 252-99.000.
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 Koch, Carl, to Sinar AG Schaffhausen. Optical attachment for viewing a focusing screen of a camera. 3,701,582, 10-31-72, Cl. 350-145.000.
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 Koch, Claude V.; and Storms, Donald G., to AMF Incorporated. Spring blades for contact arms and the method for making the same. 3,665,881, 5-30-72, Cl. 113-119.000.
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 Koch, Friedrich: *See—*
 Ludwig, Herbert, 3,667,883.
 Zeug, Robert; and Koch, Friedrich, 3,698,694.
 Koch, George Peter, to Morris, Philip, Incorporated. Aerosol dispenser valve. 3,653,551, 4-4-72, Cl. 222-136.
 Koch, George, Sons, Inc.: *See—*
 Boost, Charles C.; Mitchell, William S.; and Horton, David M., 3,669,870.
 Pate, Robert F.; Tredwell, Gilman; and Mitchell, William S., 3,661,095.
 Koch, H., & Sons, Inc.: *See—*
 Gaylord, John A.; and Murray, Norris N., 3,648,954.
 Gaylord, John A., 3,692,262.
 Koch, H., & Sons, Inc.; a division of Global Systems: *See—*
 Gaylord, John A., 3,658,281.
 Koch, H., & Sons, Inc.; a division of Global Systems; a Gulf & Western Company: *See—*
 Gaylord, John A., 3,659,322.
 Koch, Hans: *See—*
 DeJong, Egbert D.; Koch, Hans; and Maynard, Kenneth B., 3,672,118.
 Koch, Hans; Oppermann, Willi; and Pfeffer, Heinz, to Demag Aktiengesellschaft. Apparatus for fusion welding of tubes. 3,694,617, 9-26-72, Cl. 219-121.0eb.
 Koch, Hans Adalbert: *See—*
 Krall, Heribert; and Koch, Hans Adalbert, 3,706,336.
 Koch, Hans W., to Roller Bearing Company of America. Making corrugated elastic shims. 3,633,398, 1-11-72, Cl. 72-131.
 Koch, Hans-Joachim: *See—*
 Meisert, Ernst; Strigler, Hellmut; Koch, Hans-Joachim; and Klebert, Wolfgang, 3,692,708.
 Koch, Harald: *See—*
 Vorbach, Gunther; and Koch, Harald, 3,643,596.
 Koch, Heinz; and Vohringer, Eugen Martin, to Werner & Pfleiderer Firma. Continuously operating screw machine for the treatment of plastic masses. 3,687,423, 8-29-72, Cl. 259-109.000.
 Koch, Helmut: *See—*
 Bucksch, Herbert; and Koch, Helmut, 3,706,145.
 Koch, Hermann. Measuring instrument with a bourdon spring. 3,688,586, 9-5-72, Cl. 73-418.000.
 Koch Industries, Inc.: *See—*
 Pierpont, William H., Jr., 3,661,670.
 Koch, Jack N.: *See—*
 Middendorf, William H.; Myers, Ralph S.; Fritz, Edward J.; and Koch, Jack N., 3,638,173.
 Koch, John H., to Atkins & Merrill, Inc. Modular aircraft pedestal. 3,675,880, 7-11-72, Cl. 244-83.00r.
 Koch, Karl: *See—*
 Hoyt, John M.; and Koch, Karl, 3,637,603.
 Hoyt, John M.; and Koch, Karl, 3,706,716.
 Koch, Karl-Hellmut. Process for affecting taste and odor in leguminosae and in particular peanuts and soya beans. 3,660,111, 5-2-72, Cl. 99-98.
 Koch, Kenneth F.: *See—*
 Peters, Robert L.; and Koch, Kenneth F., 3,678,191.
 Koch, Lehel: *See—*
 Hollo, Janos; Zagvyai, Istvan; and Koch, Lehel, 3,637,396.
 Koch, Louis, to Kohnstamm, H., & Co., Inc. Non-toxic dyes in polyglycerol fatty acid ester and glycol or glycerine and its mixture therein. 3,677,691, 7-18-72, Cl. 8-41.
 Koch, Paul J.: *See—*
 Prevorsek, Dusan C.; Li, Hsin L.; Koch, Paul J.; Oswald, Hendrikus J.; and Schmitt, George J., 3,690,980.
 Koch, Peter, to United States of America, Agriculture. Process for steam straightening and kiln drying lumber. 3,680,219, 8-1-72, Cl. 34-13.400.
 Koch, Richard C.: *See—*
 Howes, Harold L., Jr.; and Koch, Richard C., 3,655,891.
 Koch, Richard C. 2-(Substituted)2-thiazolines for the control of rice blast. 3,637,707, 1-25-72, Cl. 424-270.
 Koch, Robert L., II; and Tredwell, Gilman, to Ashdee Corporation. Electrocoating apparatus. 3,640,814, 2-8-72, Cl. 204-300.
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 Koch, Robert M.: *See—*
 Johnson, Robert M.; Toby, Dennis E.; and Koch, Robert M., 3,704,661.
 Kent, Richard T.; and Koch, Robert M., 3,682,077.
 Koch, Robert M.; Webb, Samuel L.; and Toby, Dennis E., to Addressograph-Multigraph Corporation. Liquid developing apparatus. 3,687,049, 8-29-72, Cl. 95-89.00r.
 Koch, Robert W.: *See—*
 Dober, Edward J.; and Koch, Robert W., 3,654,137.
 Koch, Robert W., to Gulf Research & Development Company. Cracking of solvent extracted gas oil without added hydrogen. 3,691,061, 9-12-72, Cl. 208-87.000.
 Koch, Robert W., to Gulf Research & Development Company. Cracking of a gas oil with zeolite and monzeolite catalyst. 3,696,023, 10-3-72, Cl. 208-87.000.
 Koch, Rockne E., to General Electric Company. Image gate. 3,684,354, 8-15-72, Cl. 350-289.000.
 Koch, Roland G.: *See—*
 King, John L., Jr.; and Koch, Roland G., 3,663,028.
 Koch, Roland G.; and King, John L., Jr., to Houdaille Industries, Inc. Quick change tool holders for automatic tool changers. 3,658,352, 4-25-72, Cl. 279-89.
 Koch Supplies, Inc.: *See—*
 Viene, John G., 3,653,420.
 Koch, Theodor. Rifled gun barrel with the interior cross-sectional configuration defining a regular curvilinear polygon. 3,643,364, 2-22-72, Cl. 42-78.
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 Koch, Walter: *See—*
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- Brown, Gaylor W., 3,669,606.
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- Johnson, Kenneth V.; and Miller, David A., 3,700,115.
- Parrett, John T., 3,665,810.
- Peursem, Marvin Van, 3,700,179.
- Thompson, Glenn S., 3,654,839.
- Wilke, Rajd A., 3,685,540.
- Witt, Wilmer E.; Sousek, Eugene A.; and Clish, Clyde A., 3,638,363.
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Becke, Friedrich; Fuchs, Friedrich; Kohlhaupt, Reinhold; Sander, Bruno; and Thewis, Josef, 3,632,623.
Fischer, Adolf; Becke, Friedrich; and Kohlhaupt, Reinhold, 3,634,452.
Fischer, Adolf; Becke, Friedrich; and Kohlhaupt, Reinhold, 3,704,310.
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Riebs, Richard E.; and Kohlman, Curtis J., 3,668,509.
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Jolly, Samuel E.; Kohn, Edward M.; and Tench, John D., 3,681,117.
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Cramer, Lawrence P.; Irons, Harold B.; Kohn, Harold; and Mathis, John P., 3,658,629.
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Blazevic, Milos; and Kohn, Joseph, 3,671,044.
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Blum, Bernard Saul; and Kohn, Marvin Lee, 3,680,197.
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Alton, Ahdor H.; and Kohn, Mitchell I., 3,648,183.
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Hicks, Alan A., 3,677,547.
- Kohno, Mitsuo: *See*—
Stubbmann, Albert, 3,659,375.
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Ishihara, Masao; Sugino, Osakazu; Nishina, Yoshio; Kohno, Isao; and Satoh, Yuzuru, 3,640,721.
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Terasaki, Iwao; Kimura, Yoshio; Okamoto, Toshio; Shima, Tsukasa; Kohno, Mitsuo; and Kitamura, Kazuyuki, 3,669,927.
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Kohda, Akihide; Kohno, Shigeharu; Takahashi, Tohru; and Sugimoto, Hachiro, 3,704,244.
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Koch, Louis, 3,677,691.
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Arima, Kei; Tamura, Gakuzo; Sakai, Heiichi; and Kohsaka, Masanobu, 3,692,777.
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Shiga, Takeo; Okamoto, Michio; and Kohsaka, Osamu, 3,646,270.
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Goshima, Takeshi; and Kohtani, Yutaka, 3,704,349.
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Graff, William A.; and Kohut, Jaroslaw, 3,669,698.
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Mehl, Ernest; Kohut, Michael; and Kawulka, Paul, 3,666,437.
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Ishihara, Toshio; Okazaki, Takayoshi; Endo, Tetsuzo; Koichi, Tanizawa; and Nakajima, Sataro, 3,653,826.
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Sato, Wasuke; Hatakeyama, Shigeyuki; Koide, Masashi; Yamamoto, Sadao; and Fujisawa, Mitsumaro, 3,700,523.
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Sawano, Toshimi; Koike, Hiroshi; Kurata, Naoki; and Okuda, Yukio, 3,660,471.
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Saito, Nagao; and Koike, Kazushige, 3,694,610.
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Fujimoto, Yasuo; Tatsukawa, Keizo; and Koiwa, Yoichi, 3,637,727.
- Fujimoto, Yasuo; and Koiwa, Yoichi, 3,651,004.
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- Fujimoto, Yasuo; Nagaoka, Koichi; Tatsukawa, Keizo; and Koiwa, Yoichi, 3,671,482.
- Koiwai, Akira: *See*—
Aoyama, Ryozo; and Koiwai, Akira, 3,633,464.
- Aoyama, Ryozo; Koiwai, Akira; and Yamada, Kenji, 3,654,758.
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- Kitano, Ichiro; Koizumi, Ken; Ikeda, Yoshiro; and Matsumura, Hiroyoshi, 3,650,598.
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- Matsushita, Kazuo; Koizumi, Ken; Togo, Hidetoshi; and Kimura, Hajime, 3,657,586.
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Suzuki, Shigeru; Sugita, Keiji; Koizumi, Yutaka; and Kanno, Tadaaki, 3,651,727.
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Suzuki, Yoshitaka; Takenoue, Atsushi; and Kojima, Hideo, 3,699,178.
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Takahashi, Akira; Kojima, Hiroo; Ogawa, Masao; Osuka, Hiroshi; and Kobayashi, Shoichi, 3,673,279.
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Shimbo, Chiaki; Kojima, Hiroomi; Sekiya, Michio; Takeyasu, Kiyoo; and Sadao, Nomura, 3,658,409.
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Tadaira, Kenich; and Kojima, Jiro, 3,633,446.
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Ito, Akihiko; Nakase, Yoshiaki; Kojima, Katsumi; Yoshida, Masaru; Iwai, Tadashi; Hayashi, Koichiro; and Okamura, Seizo, 3,677,922.
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Yagi, Eiichi; Kojima, Kenko; Ikeda, Hisayuki; Yauchi, Shiro; Shimizu, Tsutomu; Tamalate, Tokutaro; and Ikegawa, Hiroyuki, 3,680,841.
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Yoneda, Naoto; Ishihara, Teruo; Kobayashi, Tetsuji; Kondo, Yasuo; Okumura, Kentaro; Kojima, Michio; and Nose, Takashi, 3,673,195.
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Ando, Satoshi; Tanaka, Yusaku; Kojima, Minoru; and Fujimura, Kyoichi, 3,669,917.
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Kosui, Tsuguo; Seki, Masahiro; Takamatsu, Shuji; and Kojima, Sakusaburo, 3,682,196.
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Fujisawa, Tamotsu; and Kojima, Takakazu, 3,697,601.
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Ito, Ryoi; and Kojima, Takeshi, 3,652,690.
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Iwama, Masakuni; Kojima, Tamotsu; Fujiwara, Mitsuto; and Sakamoto, Kenro, 3,649,278.
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- Kojima, Teiry: *See*—
Susami, Kozo; Minami, Keiichi; Tabata, Masaaki; Kojima, Teiry; and Yunoki, Zyuji, 3,660,973.
- Kojima, Tsutomu: *See*—
Nishikubo, Yasuhiko; and Kojima, Tsutomu, 3,657,667.
- Kojima, Tuneso: *See*—
Kanai, Hiroyuki; and Kojima, Tuneso, 3,693,340.
- Kojima, Yoshihiro: *See*—
Takeda, Chuzo; Kojima, Yoshihiro; Yamaguchi, Toshiyuki; and Ariyama, Yasuo, 3,639,865.
- Kojima, Yoshiro: *See*—
Hikida, Ryotaro; Awano, Taikichi; Danno, Atsushi; and Kojima, Yoshiro, 3,686,917.
- Kok, Jurgen: *See*—
Kuehnle, Manfred R.; Kok, Jurgen; and Jochimsen, Dieter, 3,705,294.
- Kok, Rieckert: *See*—
Campen, Jan P.; and Kok, Rieckert, 3,700,767.
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Noakes, Thomas E.; Konen, Thomas P.; Kokalari, Albert; and Duggan, Robert B., 3,696,611.
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Selle, James E.; and Kokenge, Bernard R., 3,659,107.
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Dill, William E.; La Vault, Maurice G.; Kokoszka, Stanley L.; and Shrader, William W., 3,639,892.
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Yamamura, Yuichi; Kokubu, Tatsuo; Shigezane, Keisuke; and Mizoguchi, Tomishige, 3,700,651.
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Higashi, Seiya; and Kobayashi, Kenro, 3,700,412.
- Murai, Tsuyoshi; and Toi, Tatsuo, 3,696,779.
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Sasaki, Hiroshi; Maruyama, Tatsuo; Kanzaki, Hisao; and Sakamoto, Yasuhiko, 3,641,274.
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Amano, Kitsutaro, 3,671,959.
- Muratani, Takuro; Ogawa, Akira; and Nosaka, Kunishi, 3,676,593.
- Nakagome, Yukio; Kawai, Kazuo; Yanagidaira, Hidetaka; Shintani, Sotokichi; and Michishita, Isakichi, 3,697,881.
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- Shintani, Sotokichi; Kawai, Kazuo; and Yanagidaira, Hidetaka, 3,670,251.
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Kablaoui, Mahmoud S.; and Kolaian, Jack H., 3,642,622.
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Gestler, David J.; Kovats, Zoltan; and Kolakowski, Alfred W., 3,685,353.
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Miller, Aaron; and Siegfried, William, 3,645,705.
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Peschl, Ervin; Malasek, Frantisek; and Kolar, Vladimir, 3,681,944.
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Born, Norman E.; Kolatorowicz, Edwin E.; and Plumb, Harry A., Jr., 3,665,274.
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Gallagher, William, Jr.; Kolb, Edwin R.; and Murray, James E., 3,651,723.
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Balle, Gerhard; and Kolb, Gunter, 3,641,119.
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Laurent, Henry; Kolb, Karl H.; and Wiechert, Rudolf, 3,681,405.
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Laurent, Henry; Kolb, Karl Heinz; and Wiechert, Rudolf, 3,678,034.
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Pollak, Gottfried; and Kolb, Peter, 3,697,667.
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Lilley, G. C.; and Kolb, Robert Herrick, 3,678,257.
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Lindenmeier, Heinz; and Meinke, Hans-Heinrich, 3,699,452.
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Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Aglitky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Kantor, Ilia Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhaneldze, Vazna Venediktovich; Topolyanky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, 3,689,010.
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Stark, Adolf F.; Kolbeck, Winfried; and Bayerlein, Friedrich J., 3,704,318.
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Holtwick, Gary M.; and Kolence, Kenneth W., 3,644,936.
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Kassat, Harry; Kissel, Ernst; and Kolenda, Herbert, 3,703,592.
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Andrews, Russell W.; Kolesar, Paul M.; Payne, Robert M.; and Posner, Howard G., 3,651,511.
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Lundberg, Robert Dean; Koleske, Joseph Victor; and Walter, Earl Richard, 3,637,544.
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Sisk, George William, Jr.; Miller, Arthur William; and Koleszar, Frank, 3,677,166.
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Elsner, Fritz; Becker, Franz; and Kolf, Heinrich, 3,638,767.
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Verderber, Joseph A.; Fortcamp, James A.; and Kolibas, James A., 3,634,007.
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Luner, Stephen J.; and Kolin, Alexander, 3,664,939.
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Semplonius, Frans; and Kolk, Stephen B., 3,669,499.
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Holz, Hans; Kleep, Christian; and Koll, Gunter, 3,706,513.
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Lukes, James J.; and Koll, Robert J., 3,674,881.
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Kollar, John P., 3,705,447.
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Jezuit, Leslie J.; and Kollars, Harold R., 3,673,959.
- Kolle, Erwin: *See—*
Bonisch, Herbert; Gaiser, Heinz; Huber, Guntram; and Kolle, Erwin, 3,638,899.
- Koller, Eugen Johann: *See—*
Litzler, Alfred; Ramanathan, Visvanathan; Hegar, Gert; Koller, Eugen Johann; and Milicevic, Branimir, 3,663,161.
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Mosby, James F.; and Koller, James C., Jr., 3,654,138.
- Koller, James E.: *See—*
Taber, Robert C.; and Koller, James E., 3,647,463.
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Kurz, Jurgen; Kolling Heinrich; and Federmann, Manfred, 3,697,517.
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Bartleson, C. James, 3,632,217.
- Blowers, William L., 3,703,651.
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- Henry-Baudot, Jacques, 3,686,521.
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- Lord, Joseph Samuel, 3,646,331.
- Zeblysky, Rudolph J., 3,672,938.
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von der Eltz, Hans-Ulrich; and Kollodzeiski, Norbert, 3,681,005.
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Artelt, Herbert C., Jr., 3,707,424.
- Cohen, Murray F.; and Tarasevich, Michael, 3,699,334.
- Lindner, Norman J., 3,668,503.
- Ruschmann, Fred, 3,662,196.
- Stempler, Samuel; Listl, Carl A.; and Baron, Leonard, 3,636,364.
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- Strauss, George M., 3,668,930.
- Tellerman, Jacob, 3,698,793.
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Curwen, Kenneth R., 3,668,427.
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Brey, Wilhelm; Hostetler, William; Loeffler, Earl Ferdinand; Kolm, Hubert Ernest; and Elder, Fred Grove, 3,700,526.
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Method and apparatus for determining the carbon activity of fluids. 3,679,551, 7-25-72, Cl. 204-1.00t.
- Kolody, Stanley J. Scale pattern and route conversion marker. 3,646,885, 3-7-72, Cl. 101-328.
- Kolodziej, Henry W. Automobile tire inner support. 3,645,312, 2-29-72, Cl. 152-158.
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Korshak, Vasily Vladimirovich; Volpin, Mark Efimovich; Sergeev, Vladimir Alexandrovich; Shitikov, Valentin Kuzmich; and Kolomnikov, Igor Sergeevich, 3,705,131.
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Vagin, Alexei Alexeevich; Yablonsky, Stanislav Valerievich; Voloshin, Petr Stepanovich; Sharov, Nikolai Grigorievich; Shiborin, Viktor Ivanovich; Novakovsky, Vladimir Efimovich; Kolpakov, Grigory Vasilievich; Ivanov, Mark Efremovich; Lindin, Viktor Mikhailovich; and Lipsky, Daniil Yakovlevich, 3,700,364.
- Kolpakov, Serafim Vasilievich: *See—*
Rutes, Viktor Savelievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballard, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, Anatoly Ivanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosochenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.
- Kolpek, Robert A.: *See—*
Davidge, Ronald V.; and Kolpek, Robert A., 3,660,616.
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- Kolster, Harvey L.: *See—*
Wood, Gerald L.; Kolster, Harvey L.; and Zeller, James E., 3,667,826.
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Uchytel, Gary; and Kolterer, Franz, 3,663,376.
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Michejda, Oskar, 3,701,254.
- Kolten, Hermann. Process for producing probe heads, and probe head for internal comparison measurements. 3,644,985, 2-29-72, Cl. 29-481.
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Plantholt, Robert G.; and Koltuniak, Michael A., 3,637,960.
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housings each of which contains rectifying devices, a transformer and fan means. 3,641,419, 2-8-72, Cl. 321-8.
 Koltz, Lawrence D.: *See—*
 Krick, David M.; Koltz, Lawrence D.; and Williams, Warren C., 3,670,802.
 Kolycheck, Edmond G., to Goodrich, B. F., Company, The. Poly (lactoneurethane) adhesives. 3,660,357, 5-2-72, Cl. 260-77.5a.
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 Komachiya, Yoshiaki: *See—*
 Matsui, Yoshinari; Hara, Minoru; and Komachiya, Yoshiaki, 3,642,888.
 Komada, Hiroshi; and Nakamura, Kuniyasu, to Toyo Rubber Industry Co., Ltd., The. Method for continuously producing foamed panels having uniform properties. 3,660,548, 5-2-72, Cl. 264-47.
 Komada, Hitoshi: *See—*
 Takemasa, Kazuo; and Komada, Hitoshi, 3,675,438.
 Komadina, George. Electrical connector. 3,639,889, 2-1-72, Cl. 339-75.
 Komagata, Hideki: *See—*
 Nishizawa, Hirofumi; Kitaura, Shigeo; Sumoto, Misao; Komagata, Hideki; and Matsumoto, Hiroshi, 3,690,978.
 Sumoto, Misao; Komagata, Hideki; Matsumoto, Hiroshi; and Furusawa, Hironobu, 3,701,755.
 Komai, Hirotaka: *See—*
 Matsuo, Toshiaki; Chono, Koji; Go, Tadahiyo; and Komai, Hirotaka, 3,705,880.
 Komaki, Norio: *See—*
 Namioka, Hisao; Komaki, Norio; and Nishizawa, Seiji, 3,649,598.
 Komaki, Tatsuo: *See—*
 Kohno, Shigeharu; Komaki, Tatsuo; and Watanabe, Hideaki, 3,702,867.
 Komamiya, Yasuo: *See—*
 Kataoka, Shoei; Tateno, Hiroshi; Fujisada, Hiroyuki; Kawashima, Mitsuo; Komamiya, Yasuo; and Yamada, Hideo, 3,691,481.
 Koman, Andras: *See—*
 Jurany, Gyorgy; Koman, Andras; and Zillich, Pal, 3,692,410.
 Komander, Alfons Anzel, to Imperial Chemical Industries Limited. Pigment compositions. 3,674,527, 7-4-72, Cl. 106-289.000.
 Komanowsky, Michael: *See—*
 Aceto, Nicholas C.; Naghski, Joseph; and Komanowsky, Michael, 3,665,988.
 Komar, Mitchell F. Latching relay assembly. 3,694,779, 9-26-72, Cl. 335-169.000.
 Komaroff, Iwan; Ziegler, Ewald; and Hans, Waldemar, to Bosch, Robert, G.m.b.H. Electromagnetically operated valve with two seats. 3,661,183, 5-9-72, Cl. 137-625.65.
 Komarov, Alexandr Ivanovich: *See—*
 Graifer, Valery Isaakovich; Komarov, Alexandr Ivanovich; Lysenko, Vladimir Dmitrievich; Mingareev, Ravkhat Shagimardanovich; and Mukharsky, Enver Davydovich, 3,664,418.
 Komarov, Anatoly Semenovich: *See—*
 Kotov, Evgeny Pavlovich; Legostov, Viktor Vladimirovich; Stepanov, Evgeny Alexeevich; Chuchalov, Alexandr Mikhailovich; Maiorov, Nikolai Kuzmich; Merezko, Gennady Pavlovich; Komarov, Anatoly Semenovich; and Sosnitsky, Nikolai Georgievich, 3,694,570.
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 Komata, Yasushi: *See—*
 Shimazaki, Hideo; Tsukamoto, Shuji; Saito, Tadaomi; Eguchi, Sadanari; and Komata, Yasushi, 3,647,825.
 Komatsu, Akira: *See—*
 Moroe, Tatsuo; Komatsu, Akira; Akutagawa, Susumu; Sakaguchi, Toshiaki; and Matsuyama, Hirokazu, 3,706,809.
 Seikuguchi, Masaaki; Yoshikawa, Kaoru; and Komatsu, Akira, 3,679,133.
 Komatsu, Akitoshi: *See—*
 Yano, Tomosaburo; Oishi, Naoki; Komatsu, Akitoshi; and Koyama, Keizi, 3,647,415.
 Komatsu, Fumito; and Adachi, Goro, to Kabushiki Kaisha Sankyo Seiki Seisakusho. Musical box movement. 3,691,286, 9-12-72, Cl. 84-101.000.

Komatsu, Hideo: *See—*
 Oda, Naoteru; Nishimura, Seiichi; and Komatsu, Hideo, 3,702,694.
 Komatsu, Hideo; Yuguchi, Sadao; Tanimura, Masamitsu; and Matsukawa, Hiroshi, to Toray Industries, Inc. Fiber forming polyester composition and fiber produced therefrom. 3,705,130, 12-5-72, Cl. 260-47.00c.
 Komatsu, Hiroaki, to Alps Electric Co., Ltd. Single control device for plural variable resistors. 3,662,313, 5-9-72, Cl. 338-90.
 Komatsu, Kiroku: *See—*
 Kuroki, Nobuhiko; Komatsu, Kiroku; Tamura, Shuji; and Matsumoto, Hiroyuki, 3,695,821.
 Komatsu, Kōei; Okuya, Eitaro; Tomioka, Katsuyoshi; Sakai, Masato; Hayashi, Shigeki; Yasunaga, Hidetoshi; and Kogure, Akira, to Japan Synthetic Rubber Co., Ltd. Process for producing conjugated diolefin polymer with reduced cold flow. 3,669,943, 6-13-72, Cl. 260-80.700.
 Komatsu, Masahiro: *See—*
 Henmi, Zenzo; Sasaki, Tatsuji; Matsui, Yuji; Maegawa, Harumi; Sato, Yoshihiro; Gotoh, Tsuneyasu; and Komatsu, Masahiro, 3,686,042.
 Komatsu, Michiyasu: *See—*
 Shogo, Shimizu; Motose, Takami; Yamazaki, Syu; Komatsu, Michiyasu; and Yamamoto, Hiroshi, 3,661,536.
 Komatsu, Mikio. Self-holding electromagnetically driven device. 3,634,735, 1-11-72, Cl. 317-154.
 Komatsu, Noboru: *See—*
 Kusunoki, Kancyoshi; Asakura, Tatsumi; Nakakawa, Masahiro; Komatsu, Noboru; and Arai, Tohru, 3,680,626.
 Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara, Yoshiteru; and Asakura, Kouichi, to Kabushiki Kaisha Toyota Chuo Kenkyusho and Aisin Seiki Company Limited. Process and apparatus for press-forming and quenching a steel stock. 3,668,917, 6-13-72, Cl. 7-342.
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 Komatsu, Susumu: *See—*
 Yamaguchi, Goro; Komatsu, Susumu; Yoshizaki, Kazuhiro; and Fukumoto, Tetsuo, 3,694,379.
 Komatsu, Tokuji, to Tsudakoma Industrial Co., Ltd. Apparatus for detecting the tension of yarns delivered from a rotary yarn beam. 3,699,809, 10-24-72, Cl. 73-143.000.
 Komatsu, Toshikatsu: *See—*
 Masuda, Toru; Usui, Yoshiro; Hara, Yukio; and Komatsu, Toshikatsu, 3,644,339.
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 Komatsubara, Kiichi: *See—*
 Tsuchimoto, Takashi; Tokuyama, Takashi; and Komatsubara, Kiichi, 3,660,171.
 Komatsubara, Tsuneo: *See—*
 Iida, Eiichi; Komatsubara, Tsuneo; Ueno, Sadao; Takeuchi, Soichiro; Matui, Etuo; and Sano, Toshio, 3,654,248.
 Komatsu, Shigekazu: *See—*
 Kodama, Yutaka; Kodama, Tsutomu; Nakabayashi, Masao; and Komatsu, Shigekazu, 3,699,188.
 Komazaki, Yujiro; and Watanabe, Takeshi, to Shunsuke Nakano. Base unit for electric liquid warmer. 3,662,155, 5-9-72, Cl. 219-432.
 Komazawa, Yoshihisa: *See—*
 Oshima, Shintaro; Kobayashi, Toshihiko; Kamibayashi, Tetsusaburo; Okada, Akira; Komazawa, Yoshihisa; and Komuro, Keigo, 3,666,635.
 Kombinat Veb Messgeratewerk Zwonitz: *See—*
 Martini, Karl; Forster, Peter; Bierbaum, Dieter; and Halm, Gunther, 3,664,472.
 Kombinat Veb Pentacon Dresden Kamera- und Kinowerke: *See—*
 Jurenz, Rolf, 3,631,784.
 Reimann, Hubertus; and Lindner, Fritz, 3,698,301.
 Strehle, Horst, 3,641,892.
 Welzel, Herbert, 3,648,586.
 Komeda, Hiromu: *See—*
 Funakoshi, Yoshiro; Kajiura, Takehiko; Fujii, Kiyoshi; Kanamaru, Toshihiko; Nishitani, Masaki; and Komeda, Hiromu, 3,671,296.
 Komeda, Yoshiaki: *See—*

Hattori, Kenichi; Goukon, Atushi; Komeda, Yoshiaki; and Mori, Hiroshi, 3,637,580.
 Komeno, Taichiro, to Shionogi & Co., Ltd. 2,3-Epithio-5 α -androsterone compounds. 3,657,225, 4-18-72, Cl. 260-239.5.
 Komeno, Taichiro, to Shionogi & Co., Ltd. 18-Methyl-2 α ,3 α -epithio-5 α -androsterone derivatives. 3,660,382, 5-2-72, Cl. 260-239.5.
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 Komesz, Zoltan: *See—*
 Tuba, Zoltan; Bor, Maria, nee Szabo; Komesz, Zoltan; Weitner, Eva, nee Vari; and Gorog, Sandor, 3,705,150.
 Komet Stahlhalter- und Werkzeugfabrik Robert Breuning GmbH: *See—*
 Eckle, Otto, 3,700,346.
 Kometani, Yutaka; Tatemoto, Masayoshi; Okuda, Masahiro; Okuno, Chuzo; Sakata, Shinsuke; Sakai, Shoji; and Oka, Masahiko, to Daikin Kogyo Co., Ltd. Process for polymerizing fluorolefins in the presence of isobutyl peroxide. 3,642,754, 2-15-72, Cl. 260-921.
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 Komeya, Katsutoshi; and Inoue, Hiroshi, to Tokyo Shibaura Electric Co., Ltd. Method for manufacturing aluminum nitride fibers. 3,653,830, 4-4-72, Cl. 23-192.
 Komhyr, Walter D. Electrochemical concentration cell for gas analysis. 3,681,228, 8-1-72, Cl. 204-195.00r.
 Kominam, Naoya; Tamura, Nobuhiro; and Yamamoto, Etsuo, to Asahi Kasei Kogyo Kabushiki Kaisha. Production of dimethylstyrenes. 3,689,583, 9-5-72, Cl. 260-669.00r.
 Kominami, Naoya; Nakajima, Hitoshi; Tamura, Nobuhiro; and Ohki, Kusuo. Process for producing vinyl acetate. 3,634,496, 1-11-72, Cl. 260-497.
 Kominami, Toshio: *See—*
 Ishikawa, Hajime; Akedo, Youichi; and Kominami, Toshio, 3,658,625.
 Kominklyke Nederlandsche Hoogodns en Staalfabrieken N.V.: *See—*
 Van Wierst, Wilhelmus Lambertus; and Paffen, Pieter Jozef Marie, 3,697,119.
 Komisako, Tetuji: *See—*
 Mori, Kazuhiro; Nakamura, Abio; Nakai, Miyoji; and Komisako, Tetuji, 3,670,548.
 Komishiroku Photo Industry Co., Ltd.: *See—*
 Iwama, Masakuni; Inoue, Isaburo; Hanzawa, Teruo; Sakamoto, Kenro; and Endo, Takaya, 3,694,214.
 Komito, Hiroshi: *See—*
 Kobayashi, Hidehiko; and Komito, Hiroshi, 3,642,697.
 Komiya, Kuniko: *See—*
 Hojo, Shiro; and Komiya, Kuniko, 3,692,699.
 Komiya, Takao; Tosaka, Umi; Ihara, Takashi; Matsuo, Takehiko; and Ohara, Katsunobu, to Canon Kabushiki Kaisha. Electrophotographic plate and the method for producing the same. 3,687,659, 8-29-72, Cl. 96-1.500.
 Komiya, Eizo. Identification cards. 3,640,009, 2-8-72, Cl. 40-2.2.
 Komiya, Katsuhiko; and Iinuma, Yoshio, to Citizen Watch Co., Ltd. Resetting-to-zero mechanisms for seconds, minute, and hour hands. 3,667,212, 6-6-72, Cl. 58-74.000.
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 Komline, Thomas R., to Komline-Sanderson Engineering Corporation. Filtering apparatus. 3,667,614, 6-6-72, Cl. 210-401.
 Komline-Sanderson Engineering Corporation: *See—*
 Komline, Thomas R., 3,667,614.
 Schlegel, William L., 3,701,432.
 Kommanditgesellschaft Dr.-Ing. Rudolf Hell: *See—*
 Hell, Rudolf; Wellendorf, Klaus; Koll, Roman; and Lindemann, Eckhard, 3,688,033.
 Komninos, John A., to Ciba-Geigy Corporation. Polyacrylonitrile dyeing process. 3,632,300, 1-4-72, Cl. 8-172.
 Komoly, Thomas John, to Imperial Chemical Industries Limited. Process for the production of thermoplastic sheets having longitudinal and transverse corrugations. 3,673,032, 6-27-72, Cl. 156-210.000.
 Komor, Joseph A., to GAF Corporation. Surfactant for electrolyte-containing processing solutions. 3,704,262, 11-28-72, Cl. 252-353.000.
 Komori, Hiroyuki: *See—*
 Sakata, Mamoru; Komori, Hiroyuki; and Fujii, Katsuhiko, 3,649,959.
 Komori, Masahiro: *See—*
 Komori, Masahiro; and Komori, Takehiko (said Komori, Takehiko assor. to said), 3,687,060.
 Komori, Masahiro. Safety gate for press. 3,641,841, 2-15-72, Cl. 74-615.
 Komori, Masahiro; and Komori, Takehiko, said Komori, Takehiko assor. to said Komori, Masahiro. Safety gate for presses. 3,687,060, 8-29-72, Cl. 100-53.000.
 Komori, Ryozi: *See—*
 Seko, Maomi; Ogawa, Shinsaku; Komori, Ryozi; Asuma, Masaro; Isoya, Toshiro; and Sakai, Takamasa, 3,674,653.
 Komori, Shigehiro; and Sato, Jiro, to Canon Kabushiki Kaisha. Electrophotographic copying machine having movable slit-exposure station. 3,637,303, 1-25-72, Cl. 355-8.
 Komori, Shigehiro; and Hattori, Hiroyuki, to Canon Kabushiki Kaisha. Photocopying apparatus provided with original inverting device. 3,675,999, 7-11-72, Cl. 355-8.000.
 Komori, Shigehiro; and Hattori, Hiroyuki, to Canon Kabushiki Kaisha. Device for automatically regulating the concentration of developing solution. 3,677,222, 7-18-72, Cl. 118-7.
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 Komori, Takehiko: *See—*
 Komori, Masahiro; and Komori, Takehiko, 3,687,060.
 Komori, Toshimi: *See—*
 Shiari, Yoshimichi; and Komori, Toshimi, 3,680,017.
 Komorniczky, Klaus: *See—*
 Dany, Franz-Josef; Komorniczky, Klaus; Roszinski, Hilmar; and Kalteyer, Gerhard, 3,663,174.
 Kandler, Joachim; Dany, Franz-Josef; Komorniczky, Klaus; and Munch, Peter, 3,705,865.
 Komoto, Hiroshi: *See—*
 Kobayashi, Hidehiko; Sasaguri, Kiichiro; Komoto, Hiroshi; and Kawashima, Sukeo, 3,654,225.
 Kompanek, Andrew Joseph, to Controlex Corporation of America. Apparatus for irradiating a liquid. 3,659,096, 4-25-72, Cl. 250-43.000.
 Komprimator AB: *See—*
 Lundgren, Gunnar Arne Leonard, 3,648,875.
 Lundgren, Gunnar Arne Leonard, 3,669,010.
 Komroff, Paul; and Landell, Harper, to National Union Electric Corporation. Filter indicator. 3,635,001, 1-18-72, Cl. 55-274.
 Komura, Tsuneo: *See—*
 Tsuboi, Masayoshi; Komura, Tsuneo; Tezuka, Sigeru; and Kon-do, Asaji, 3,649,810.
 Komurao, Isao: *See—*
 Nakano, Mamoru; Kadowaki, Koju; Komurao, Isao; Koshikawa, Takeo; and Oshida, Bunzi, 3,703,550.
 Komuro, Katsu: *See—*
 Mitsui, Nobuo; Hatakeyama, Takanobu; and Komuro, Katsu, 3,687,235.
 Komuro, Keigo: *See—*
 Oshima, Shintaro; Kobayashi, Toshihiko; Kamibayashi, Tetsusaburo; Okada, Akira; Komazawa, Yoshihisa; and Komuro, Keigo, 3,666,635.
 Komuro, Keiji; Inagami, Masaaki; and Saito, Yoshiomi, to Japanese Geon Company, Ltd., The. Covulcanizable rubber composition. 3,639,651, 2-1-72, Cl. 260-23.7.
 Komuro, Keiji; Inagami, Masaaki; and Fukuda, Hideo, to Japanese Geon Company, Ltd., The. Process for preparation of cross-linked epichlorohydrin polymer. 3,657,393, 4-18-72, Cl. 260-887.
 Komuro, Toshio: *See—*
 Nakayama, Kiyoshi; Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, 3,650,897.
 Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, 3,668,071.
 Tanaka, Katsunobu; Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, 3,674,641.
 Kon, Tatsuya: *See—*
 Kaneko, Hidehiko; Yamamoto, Yuzuru; and Kon, Tatsuya, 3,681,408.
 Konan Camera Laboratory Company Limited: *See—*
 Okano, Takeshi; and Nagai, Masakazu, 3,682,055.
 Konan Camera Laboratory Limited: *See—*
 Sakamoto, Isamu, 3,684,865.
 Konazewski, William: *See—*
 Taylor, Arthur Sinclair; Sandhage, Ellsworth; Bott, George; and Konazewski, William, 3,698,450.
 Koncos, Robert: *See—*
 Vrbaski, Theodor; Vitkus, Bernard C.; and Koncos, Robert, 3,704,251.
 Yoo, Jin Sun; and Koncos, Robert, 3,641,188.
 Kondelikova, Jaroslava: *See—*
 Kralicek, Jaroslav; Kubanek, Vladimir; Solcova, Jitka; and Kondelikova, Jaroslava, 3,674,751.
 Kondo, Akihiro, to Mitsubishi Denki Kabushiki Kaisha. Solid state microwave oscillator with ceramic capacitance temperature compensating element. 3,668,551, 6-6-72, Cl. 331-96.000.
 Kondo, Asaji: *See—*
 Kitajima, Masao; Yamaguchi, Tsutomu; Kondo, Asaji; and Mur-cya, Noriyuki, 3,691,090.
 Kitajima, Masao; Tsuneoka, Yoozi; and Kondo, Asaji, 3,703,576.

- Miyano, Shizuo; Kido, Keishiro; Kondo, Asaji; and Mizuki, Eiichi, 3,706,593.
- Tsuboi, Masayoshi; Komura, Tsuneo; Tezuka, Sigeru; and Kondo, Asaji, 3,649,810.
- Kondo, Asaji; Fujisaki, Hiroshi; Miyano, Shizuo; and Yazawa, Kenichiro, to Fuji Photo Film Co., Ltd. Photographic light-sensitive material. 3,701,663, 10-31-72, Cl. 96-86,000.
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- Kinjo, Kikuo; Yamanouchi, Teruo; Kondo, Eiichi; Matsuno, Hiroshi; and Nishide, Katsuhiko, 3,702,764.
- Kinjo, Kikuo; Yamanouchi, Teruo; Kondo, Eiichi; Matsuno, Hiroshi; and Nishide, Katsuhiko, 3,705,031.
- Kondo, Eiji; and Mitsugi, Takashi, to Shionogi & Co., Ltd. Degradation of side chain in sapogenins. 3,665,022, 5-23-72, Cl. 260-397.3.
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- Kondo, Hiroshi: *See—*
- Yoshikawa, Yoshio; Kondo, Hiroshi; Sugio, Akitoshi; and Kato, Tomotake, 3,664,035.
- Kondo, Hisashi: *See—*
- Yamagishi, Akio; Kondo, Hisashi; Matsumoto, Genya; and Kondo, Shigekatsu, 3,700,718.
- Kondo, Isamu. Stop ring. 3,701,303, 10-31-72, Cl. 85-8,800.
- Kondo, Isao, to Olympus Optical Co. Ltd. Automatic exposure system for photographic camera. 3,638,543, 2-1-72, Cl. 95-10.
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- Okumura, Kentaro; Inoue, Ichizo; and Kondo, Kazuhiko, 3,632,806.
- Okumura, Kentaro; Inoue, Ichizo; Oda, Tatsuo; and Kondo, Kazuhiko, 3,664,349.
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- Kawamura, Sukeyoshi; Kondo, Kishichiro; Ito, Kenji; Suzuki, Hiroshi; Yasui, Eizo; and Kobayashi, Toshiro, 3,652,635.
- Yamaguchi, Nario; Shimizu, Sakae; Tubuko, Kazuo; Kondo, Kishichiro; and Iwata, Hiroo, 3,707,402.
- Kondo, Kunio: *See—*
- Suzuki, Isamu; Ichikawa, Kiyoshi; Nakahara, Yasuji; and Kondo, Kunio, 3,645,976.
- Kondo, Kunio: *See—*
- Nakahara, Yasuji; Ichikawa, Kiyoshi; and Kondo, Kunio, 3,694,396.
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- Wakamatsu, Sigeru; Kondo, Ryozo; and Shinomiya, Masayasu, 3,700,669.
- Kondo, Shigekatsu: *See—*
- Yamagishi, Akio; Ishida, Takaharu; Aono, Yukinaga; and Kondo, Shigekatsu, 3,636,086.
- Yamagishi, Akio; Kondo, Hisashi; Matsumoto, Genya; and Kondo, Shigekatsu, 3,700,718.
- Kondo, Tamotu: *See—*
- Usamoto, Teruyoshi; Yokota, Masao; and Kondo, Tamotu, 3,651,176.
- Usamoto, Teruyoshi; Yokota, Masao; and Kondo, Tamotu, 3,669,828.
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- Iijima, Yoo; Shimamura, Isao; Kondo, Tokiharu; and Haruhike, Iwano, 3,674,491.
- Iijima, Yoo; Shimamura, Isao; Kondo, Tokiharu; and Iwano, Kanagawa, 3,687,669.
- Ohi, Reiichi; Kondo, Tokiharu; Sugiyama, Mitsunori; and Syoji, Ishiguro, 3,635,717.
- Ohi, Reiichi; Kondo, Tokiharu; Shirasu, Kazuo; and Ono, Yoshiaki, 3,707,375.
- Kondo, Toshio: *See—*
- Omura, Itiro; Kondo, Toshio; and Tamura, Hifumi, 3,686,499.
- Kondo, Toshio, to Aisin Seiki Kabushiki Kaisha. Spot type disk brake. 3,661,232, 5-9-72, Cl. 188-73,400.
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- Yoneda, Naoto; Ishihara, Teruo; Kobayashi, Tetsuji; Kondo, Yasuzo; Okumura, Kentaro; Kojima, Michio; and Nose, Takashi, 3,673,195.
- Kondo, Yoshihiro: *See—*
- Ichiki, Eiichi; Inoue, Yasuhiko; Kondo, Yoshihiro; and Yako, Tadaaki, 3,657,299.
- Ichiki, Eiichi; Iida, Kazuo; Inoue, Yasuhiko; and Kondo, Yoshihiro, 3,674,541.
- Kondo, Yusuke: *See—*
- Imamura, Seiichi; Kondo, Yusuke; Akita, Minoru; and Chikanari, Kenichi, 3,640,509.
- Kondoh, Ikuyo: *See—*
- Okuno, Zenjiro; Mizuno, Akinori; and Kondoh, Ikuyo, 3,640,863.
- Kondolff, Joseph Charles Richard. Calcuable ring in thermoplastic material for taking imprints when making permanently fixed false teeth. 3,686,754, 8-29-72, Cl. 32-17,000.
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- Imanishi, Masakazu; Kondou, Kenzi; and Sugiura, Ituo, 3,678,975.
- Kondratiev, Valentin Vasilievich: *See—*
- Zhukov, Gennady Konstantinovich; Krylov, Nikolai Ivanovich; Lebedev, Vyacheslav Ivanovich; Popov, Boris Vasilievich; Slonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Vasilenko, Sergei Iosifovich; Kondratiev, Valentin Vasilievich; and Krokhin, Neste Ivanovich, 3,633,397.
- Kondur, Louis, to Webb, Jarvis B., Company. Safety bumper for driverless vehicle. 3,664,701, 5-23-72, Cl. 293-4.
- Kondur, Nicholas, Jr.: *See—*
- Mack, Ronald H.; Kondur, Nicholas, Jr.; and Mitchell, James A., 3,667,383.
- Mack, Ronald H.; Wilczewski, Robert H.; and Kondur, Nicholas, Jr., 3,703,948.
- Kondur, Nicholas, Jr., to Burroughs Corporation. Printing mechanism with resiliently backed printing element. 3,643,774, 2-22-72, Cl. 197-18.
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- Konen, Patricia F., to Rohm & Haas Company. Inflatable flexible container and fabric for making it. 3,705,645, 12-12-72, Cl. 206-46,00r.
- Konen, Thomas P.: *See—*
- Noakes, Thomas E.; Konen, Thomas P.; Kokalari, Albert; and Duggan, Robert B., 3,696,611.
- Koneremann, Hans-Ewald: *See—*
- Bierwirth, Egon; Buning, Robert; Dorffurt, Harald; and Koneremann, Hans-Ewald, 3,689,598.
- Koneshiroku Photo Industry Co., Ltd.: *See—*
- Suzuki, Ruuzo; Sato, Sumihisa; Okamoto, Shuji; Shinozaki, Akira; and Doi, Tatsumi, 3,687,542.
- Koneva, Yanina Andreevna: *See—*
- Bashkutska, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Ildelovich; Zhabin, Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhikhin, Vladimir Petrovich; Rubnikov, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Ussyaslav Iosifovich; Sharipova, Raviya Davlyatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorovich, 3,654,325.

- Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo, 3,666,786.
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- Konishi, Kunihiko: *See—*
- Fujita, Tadao; Wake, Makoto; and Konishi, Kunihiko, 3,682,668.
- Konishi, Mikio, to New Lite Industry Company Limited. Plastic hinge. 3,703,742, 11-28-72, Cl. 16-128,000.
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- Konishiroku Photo Industry Co., Ltd.: *See—*
- Haga, Teruhide; Yamaguchi, Hisashi; and Hirao, Yotaro, 3,671,255.
- Ishihara, Masao; Sugino, Osakazu; Nishina, Yoshio; Kohno, Isao; and Satoh, Yuzuru, 3,640,721.
- Ishikawa, Hidehiko; Sato, Mikio; and Takada, Syun, 3,700,455.
- Iwama, Masabuni; Inoue, Isaburo; Takei, Yutaka; and Endo, Takaya, 3,664,841.
- Iwama, Masakuni; Kojima, Tamotsu; Fujiwara, Mitsuto; and Sakamoto, Kenro, 3,649,278.
- Iwama, Masakuni; Yamamoto, Toshihiko; Kasai, Keiji; Nakagawa, Yoshinobu; and Endo, Takaya, 3,649,285.
- Iwama, Masakuni; Inoue, Isaburo; Hanzawa, Teruo; Sakamoto, Kenro; and Endo, Takaya, 3,658,544.
- Iwama, Masakuni; Fujiwara, Mitsuto; Kojima, Tamotsu; Imamura, Hiroyuki; and Yamamoto, Toshihiko, 3,658,545.
- Iwama, Masakuni; Fujiwara, Mitsuto; Kojima, Tamotsu; Takabe, Koichi; and Yamamoto, Toshihiko, 3,667,956.
- Iwama, Masakuni; Inoue, Isaburo; Hanzawa, Teruo; Sakamoto, Kenro; and Endo, Takaya, 3,669,671.
- Iwama, Masakuni; Inoue, Isaburo; Fujiwara, Mitsuto; Hanzawa, Teruo; Kojima, Tamotsu; Yamamoto, Toshihiko; and Endo, Takaya, 3,684,514.
- Koda, Ken'ichi; Kikuchi, Shoji; Wada, Tsuneo; Kuwabara, Yoshimi; Horikoshi, Akira; Tanimura, Kensaku; and Sugita, Sadao, 3,704,128.
- Kojima, Tadashi, 3,701,587.
- Okumura, Minoru, 3,678,188.
- Oshibuchi, Koji; and Mayama, Masayoshi, 3,635,714.
- Sakamoto, Kenro; Fushiki, Isamu; and Nakamura, Shinichi, 3,637,393.
- Sakazume, Kaichiro; Ito, Shigemasa; Sato, Shui; Sakamoto, Eiichi; and Oshima, Akio, 3,698,910.
- Sakazume, Kaichiro; Sakamoto, Eiichi; Itoh, Shigemasa; Fujimori, Noboru; and Baba, Shigeji, 3,703,377.
- Sato, Shui; Sakamoto, Eiichi; Saito, Shizuo; and Sakazume, Kaichiro, 3,660,099.
- Sato, Shui; Nakajima, Tomio; Shono, Masayuki; and Kagami, Teruo, 3,663,209.
- Sato, Shui; Sakamoto, Eiichi; Saito, Shizuo; Sakazume, Kaichiro; and Kaneko, Tokuzo, 3,663,210.
- Sato, Shui; Ishihara, Masao; Sakamoto, Eiichi; Shono, Masayuki; and Sugino, Osakazu, 3,663,230.
- Sato, Shui; Nakajima, Tomio; Nakano, Masashi; and Sugita, Sadao, 3,694,211.
- Sato, Shui; Sugita, Sadao; Nakajima, Tomio; and Kasai, Keiji, 3,698,907.
- Sato, Shui; Sakazume, Kaichiro; and Suga, Tsuneo, 3,702,251.
- Seimiya, Ryubun; Ohmuro, Yuzo; Hanaoka, Sigeru; and Nakamura, Masaru, 3,653,890.
- Shinozaki, Akira, 3,640,622.
- Uchida, Yasuo; and Akimoto, Hideo, 3,651,372.
- Uchida, Yasuo; and Kuroyanagi, Yoshitaka, 3,691,917.
- Ushiyama, Rintaro; Sugino, Osakazu; Sato, Shui; Sakamoto, Eiichi; Yamada, Hiroshi; and Kikuchi, Shoji, 3,706,563.
- Yamaguchi, Hiroyoshi; Iwaki, Akio; and Tokura, Hiroshi, 3,690,890.
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- Konkel, Joseph: *See—*
- Foley, John J.; Satas, Wallace J.; and Konkel, Joseph, 3,677,176.
- Konkel, Joseph; and Schaller, Frank H., to Data Printer Corporation. Print head for high speed printers. 3,636,865, 1-25-72, Cl. 101-93.
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- Konno, Akira: *See—*
- Oshima, Haruhiko; Mizuno, Hiroshi; Konno, Akira; and Kosaka, Tomoaki, 3,641,270.
- Konewko, Joseph E.; and Occhipinti, Carl, to Bunker-Ramo Corporation. The Controlled insertion force receptacle for flat circuit bearing elements. 3,697,929, 10-10-72, Cl. 339-75,0mp.
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- Konig, Johann: *See—*
- Ruschig, Heinrich; Duwel, Dieter; Konig, Johann; and Loewe, Heinz, 3,681,458.
- Konig, Klaus: *See—*
- Meckel, Walter; and Konig, Klaus, 3,654,364.
- Radlmann, Eduard; Kohler, Armin; Konig, Klaus; and Nischk, Gunther, 3,682,861.
- Traubel, Harro; Zorn, Bruno; Konig, Klaus; and Heydkamp, Wolfgang, 3,646,178.
- Traubel, Harro; and Konig, Klaus, 3,681,125.
- Traubel, Harro; and Konig, Klaus, 3,692,570.
- Konig, Klaus; Muller, Erwin; Kallert, Wilhelm; and Muhlhause, Cornelius, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of polyurethanes. 3,640,967, 2-8-72, Cl. 260-77.5.
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- Konig, Peter J.: *See—*
- Kipp, Adolf; Stockinger, Walter; and Konig, Peter J., 3,662,814.
- Konig, Robert J.: *See—*
- Rakow, Marvin S.; and Konig, Robert J., 3,640,692.
- Rakow, Marvin S.; and Konig, Robert J., 3,701,641.
- Konig, Wolfgang: *See—*
- Geiger, Rolf; Konig, Wolfgang; Siedel, Watter; and Muschaweck, Roman, 3,689,482.
- Koniger, Walter: *See—*
- Hintringer, Otmar; Koniger, Walter; and Thorn, Jurgen, 3,641,351.
- Konigl, Georg: *See—*
- Gunther, Hans; Konigl, Georg; and Kortner, Hans, 3,644,048.
- Koning, Ely. Manufacture of lightweight aggregate. 3,702,257, 11-7-72, Cl. 106-288,00b.
- Koning, Virgil H.: *See—*
- Norian, Roger F.; and Koning, Virgil H., 3,668,414.
- Koning, Virgil H., to Xerox Corporation. Electronic chopper system for use in facsimile communication comprising means for alternately grounding and ungrounding inputs of amplifier. 3,702,447, 11-7-72, Cl. 332-3,000.
- Konings, P., Machinefabriek, Firma: *See—*
- Beisemann, Manfred, 3,640,590.
- Koninklijke Machinefabriek Stork N.V.: *See—*
- Wiselius, Samuel I., 3,644,056.
- Koninklijke Industriele Maatschappij Noury & Van der Lande N.V.: *See—*
- Gerritsen, Hans G.; Hansma, Hendrik; and Jaspers, Hans, 3,636,137.
- Gerritsen, Hans G.; and Schroeder, Arnold, 3,652,717.
- Koninklijke Nederlandsche Gist-en Spiritusfabriek N.V.: *See—*
- Weissenburger, Helmut Wilhelm Otto, 3,676,429.
- Koninklijke Nederlandsche Gist-en Spiritusfabriek N.V.: *See—*
- Van Der Waard, Willem F., 3,684,656.
- Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V.: *See—*
- De Blok, Jan F.; and Janse, Leonard, 3,702,151.
- Deurloo, Willem Hendrik, 3,667,270.
- Hollander, Frans, 3,695,594.
- Van Wierst, Wilhelmus Lambertus, 3,661,374.
- Vroege, Aart Kornelis, 3,642,262.
- Koninklijke Zwavelzuurfabrieken Voorheen Ketjen N.V.: *See—*
- Moscou, Leo, 3,635,663.
- Van Der Schuyt, Abraham; and Wolhuis, Kornelis Gerrit, 3,660,133.
- Koninklyke Nederlandsche Hoogovens ent Stoalfabrieken: *See—*
- Herk, Van Cornelis; and Cornelis, Johannes, 3,690,627.
- Konishi, Hiroshi: *See—*
- Yamada, Tadaaki; Kushida, Tadao; Konishi, Hiroshi; and Inaba, Yoshinari, 3,673,631.
- Konishi, Kazuo: *See—*
- Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo, 3,649,689.
- Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo, 3,666,785.

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Nagamatsu, Kazuo; Yoshino, Masatsugu; Konno, Tsugio; and Ishida, Shinichi, 3,647,743.
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Suzukawa, Yuichi; Kono, Hisashi; Terai, Kenji; Kuribayashi, Atushi; and Niwa, Takazumi, 3,661,973.
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Filatov, Sergei Sergeevich; and Konorev, Mikhail Maximovich, 3,669,630.
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Kozlov, Stanislav Fedorovich; and Konorova, Elena Alexandrovna, 3,665,193.
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Lamberti, Vincent; and Konort, Mark D., 3,635,830.
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Taga, Koji; and Noguchi, Masahiko, 3,676,061.
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Karpman, David Bentsionovich; Boris, Volkovich; Konovalov, Spivak Leonidovich; Bednarchuk, Jury Vladimirovich; Chigirinsky, Alexander Abramovich; Ugriymov, Leonid Vasilievich; Glider, Evgeny Khaimovich; and Gradov, Oleg Borisovich, 3,639,794.
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Anderson, Albert W.; and Konrad, Charles E., 3,660,738.
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- Chausse, Burnette P.; and Konrad, Charles E., 3,671,831.
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Freudewald, Joachim E.; and Konrad, Frederic M., 3,697,606.
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Leduc, Joseph-Adrien M.; Lurie, Charles; Kronig, Walter; and Konrad, Peter, 3,701,719.
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Faidutti, Michel; Boileau, Jacques; Konrat, Jean-Paul; and Bil-laz, Rene, 3,671,535.
- Konrath, Karl: *See—*
Biechl, Josef; and Konrath, Karl, 3,672,343.
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Ewell, David G., 3,647,736.
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Criss, Donald H.; and Kontz, Robert F., 3,659,486.
- Criss, Donald H.; and Kontz, Robert F., 3,682,026.
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Furuichi, Masayoshi; and Konuma, Takaaki, 3,697,722.
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Vereschagin, Leonid Fedorovich; Yakovlev, Evgeny Nikolaevich; Konyaev, Jury Sergeevich; Polyakov, Evgeny Valentinovich; Novikov, Albert Pavlovich; Bakul, Valentin Nikolaevich; Skripko, Gely Fomich; and Tsy-pin, Nekhen'an Veniaminovich, 3,694,177.
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Wieland, Theodor; Konz, Wilhelm; Faescl, Jurgen; and Lewalter, Jurgen, 3,705,887.
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Matsuda, Hitoshi; Hayashi, Hideaki; Araki, Tetsuro; and Kooa, Shinichi, 3,689,079.
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Tulp, Theodorus Joannes; Appels, Johannes Arnoldus; and Kooi, Else, 3,678,347.
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Garritsen, Johan W.; Kooijman, Sebastiaan E. M.; Gregoire, Johannes H. C. M. A.; and Verbrugge, Henny, 3,639,359.
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Wood, Samuel Robert, 3,680,185.

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Antonen, Robert C.; and Kookootsedes, Gust J., 3,655,598.
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Naka, Jinshichi; Tokuda, Yasunori; Kono, Takehiko; and Utsugi, Jun, 3,677,773.
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Beaver, Robert D., 3,698,690.
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Gibson, Robert G.; Mackin, John G., Jr.; Johnson, Paul K.; and Koop, Francis D., Jr., 3,670,511.
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Ingmarson, Martin, 3,672,116.
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Cartmell, James V.; Churchill, Donald; and Koopman, Donald E., 3,700,306.
- Koopmans, Gerben: *See—*
Chedaille, Jacques; and Koopmans, Gerben, 3,671,172.
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Jones, William C.; and Kootsey, Joseph Mailen, 3,659,590.
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Eilers, Kenneth L.; and Kopacki, Adams F., 3,706,686.
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Nickelsen, Hubert O.; Kopanda, Joseph E.; and Piasecki, Felix J., 3,677,781.
- Kopczewski, Robert F.: *See—*
Burgess, James F.; Kopczewski, Robert F.; and Holeman, John M., 3,679,299.
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Goodboy, George O., Jr.; Green, Donald W.; and Kopec, Conrad J., 3,680,320.
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Beare, Gene K.; Kopelman, Bernard; and Seeger, Donald E., 3,676,663.
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- Kopelman, Donald F.: *See—*
Kassel, Aaron; and Kopelman, Donald F., 3,697,185.
- Kopera, Anthony, to Bowles Fluidics Corporation. Interruptible jet sensor. 3,677,276, 7-18-72, Cl. 137-14.000.
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Nellis, Stewart; Kopf, Joseph Ellis; and Reti, Adrian R., 3,680,037.
- Kopf, Paul: *See—*
Kisselmann, Willy; Rumpelstein, Fritz; and Kopf, Paul, 3,637,286.
- Kisselmann, Willy; Rumpelstein, Fritz; Kopf, Paul; and Landbrecht, Franz, 3,639,836.
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Botcher, Wolfgang; Kopineck, Hermann-Josef; Schlusnus, Karl-Heinz; and Sommerkorn, Gernot, 3,685,348.
- Kopjas, Ilona: *See—*
Kopjas, Tibor L., 3,636,203.
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- Kopp, Carl J.: *See—*
Hjermstad, Hans U.; and Kopp, Carl J., 3,672,233.
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- Koppe, Volker: *See—*
Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Schorre, Gustav; Hovy, J. W. Hermann; and Schorsch, Ernst, 3,669,956.
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- Koppers Company: *See—*
Carman, Kenneth K., 3,673,814.
- Toperzer, John W.; Neogi, Shibendra P.; and Beachy, Dale K., 3,693,954.
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Baum, Melvin E., 3,632,667.
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- Beck, Norman A., 3,633,498.
- Blommers, Elizabeth, 3,676,284.

- Bridges, Richard J., 3,648,437.
 Carlson, John David, 3,677,878.
 Carman, Kenneth K., 3,702,200.
 Fekete, Frank; Thrash, David J.; and Pulman, Leonard J., 3,698,981.
 Greco, Nicholas P., 3,679,753.
 Haas, James P., 3,680,856.
 Hartzell, Harry F., Jr., 3,647,049.
 Helm, Edward J., 3,647,636.
 Kemp, Woodrow E.; and Flaherty, Lawrence F., 3,650,788.
 Kuehn, Frederick R., 3,667,750.
 Kuehn, Frederick Reinhold, 3,658,320.
 McKewen, John L., 3,665,676.
 Mitchell, Hartman, 3,638,928.
 Mitchell, Norman; and Victorisz, Joseph A., 3,661,372.
 Moffatt, William H., 3,650,518.
 Newhall, Henry S.; and Easton, Rufus, 3,638,714.
 Nido, Jay, 3,668,957.
 Oberley, William J.; and Daly, John E., 3,665,667.
 Powell, Russell A., 3,679,192.
 Reabe, Kenneth G.; and Dressler, Hans, 3,644,534.
 Schulte, Elwood V., 3,653,874.
 Spicer, Gordon M., 3,661,382.
 Taschenberg, Ernest J., 3,640,541.
 Tucker, Linwood G., 3,689,369.
 Williams, Charles H., 3,654,775.
 Williams, Charles H., 3,698,208.
 Williams, Charles H., 3,698,436.
 Wright, John, 3,673,813.
 Wright, John, 3,675,750.
 Koppers Company, Inc., *mesne*: *See*—
 Hill, Robert E., 3,695,920.
 Koppers, Heinrich, Gesellschaft mit beschränkter Haftung: *See*—
 Preusser, Gerhard; Schulze, Martin; and Richter, Klaus, 3,673,081.
 Koppers-Wistra-Ofenbau Gesellschaft mit beschränkter Haftung: *See*—
 Knaak, Rudiger, 3,637,198.
 Knaak, Rudiger, 3,672,654.
 Kopps, Harry A.; and Hull, Howard E. Feed mill, 3,652,020, 3-28-72, Cl. 241-74.
 Kopy Corporation, *mesne*: *See*—
 De Gain, William J., 3,699,624.
 Koptelow, Leonid. Wall painting machine, 3,688,739, 9-5-72, Cl. 118-207.000.
 Kopylov, Kim Ivanovich: *See*—
 Menchikov, Leonid Petrovich; Kopylov, Kim Ivanovich; Okun, Evsei Lvovich; Smirnov, Vasily Mikhailovich; Gavrikov, Viktor Stepanovich; Fridman, Ilya Davidovich; Markov, Vyacheslav Evgenievich; and Sopin, Alexandr Alexandrovich, 3,651,301.
 Koral, Jerry Norman: *See*—
 Blank, Werner Josef; and Koral, Jerry Norman, 3,692,717.
 Koral, Jerry Norman; and Petschel, Michael, Jr., to American Cyanamid Company. Aqueous coatings for use in electrodepositions containing fully etherified polymethylol aminotriazine cross-linking agents, 3,661,819, 5-9-72, Cl. 260-21.000.
 Koral, Jerry Norman; and Blank, Werner Joseph, to American Cyanamid Company. Method of electrodepositing novel coating, 3,663,389, 5-16-72, Cl. 204-181.
 Koranda, Clarence J.: *See*—
 Fritz, William E.; and Koranda, Clarence J., 3,706,287.
 Koratron Company, Incorporated, *mesne*: *See*—
 Roth, Philip B., 3,639,136.
 Korb, Albert N. Interlock system for darkrooms and film storage bins, 3,686,510, 8-22-72, Cl. 307-149.000.
 Korb, Eugene V.; and Haupt, Robert C., to Allis-Chalmers Manufacturing Company. Supporting structure for platform defining fuel and battery compartment, 3,667,563, 6-6-72, Cl. 180-68.500.
 Korb, Klaus: *See*—
 Geschka, Hugo Werner; Oberhoff, Wolfgang; and Korb, Klaus, 3,672,188.
 Korb, Lawrence J.; and Soja, Joseph. Outdoor lighted artificial Christmas tree, 3,704,366, 11-28-72, Cl. 240-10.000.
 Korb, Lawrence J. Lighted Christmas star display, 3,704,367, 11-28-72, Cl. 240-10.000.
 Korbanka, Helmut: *See*—
 Berger, Harald; Bestian, Herbert; and Korbanka, Helmut, 3,644,303.
 Berger, Harald; Bestian, Herbert; and Korbanka, Helmut, 3,689,448.
 Bestian, Herbert; Kaiser, Eduard; and Korbanka, Helmut, 3,657,207.
 Bestian, Herbert; Kaiser, Eduard; and Korbanka, Helmut, 3,657,262.
 Kaiser, Eduard; Korbanka, Helmut; and Stemmer, Hans Dieter, 3,651,034.
 Korbel, F., and Brothers, Inc.: *See*—
 Randrup, Benjamin F., 3,687,263.
 Korber, Hans. Adjustable beds, 3,681,792, 8-8-72, Cl. 5-67.000.

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 Korber, Ulrich: *See*—
 Feucht, Hermann; and Korber, Ulrich, 3,689,889.
 Korbblock Corporation: *See*—
 Palmer, Robert A., 3,685,244.
 Korbonits, Dezso: *See*—
 Harsanyi, Kalman; Reiter, Jozsef; Korbonits, Dezso; Gonczi, Csaba; Takacs, Kalman; Bako, Erzsébet; Leszkovszky, György; Tardos, Laszlo; and Vertesy, Csaba, 3,647,809.
 Harsanyi, Kalman; Takacs, Kalman; Relle, Zsuzsa, nee Somfai; Milak, Eva, nee Krompecher; Tardos, Laszlo; Korbonits, Dezso; Kiss, Pal; and Gonczy, Csaba, 3,673,188.
 Korbus, Dieter: *See*—
 Jestrzanski, Fritz; Korbus, Dieter; and Schulze, Gerhard, 3,634,805.
 Korchow, Jerzy: *See*—
 Nowak, Edmund; and Korchow, Jerzy, 3,645,295.
 Korchynsky, Michael; Grozier, John David; Mihelich, John L.; Bell, John R.; and Luyckx, Leon, to Jones & Laughlin Steel Corporation. High-strength low-alloy steels, 3,666,452, 5-30-72, Cl. 75-123.000.
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 Korczykowski, Leonard Earnest: *See*—
 Sheppard, Chester Stephen; and Korczykowski, Leonard Earnest, 3,657,324.
 Korda, Gerhard F., to Hudson, H. D., Manufacturing Company. Spray control valve, 3,670,966, 6-20-72, Cl. 239-337.000.
 Kordek, Steven F., to Seeburg Corporation of Delaware, The. Rotating scoring target for a game amusement machine, 3,642,284, 2-15-72, Cl. 273-127.
 Kordell, Theodore: *See*—
 Friedman, Milton I.; and Kordell, Theodore, 3,659,502.
 Koref, Ernest; and Petty, Elijah E., to Neumann, M., & Son, Inc. Mixing trays, 3,667,920, 6-6-72, Cl. 23-288.000.
 Korekawa, Takashi, to Matsushita Electric Industrial Co., Ltd. Clothes drier, 3,645,010, 2-29-72, Cl. 34-133.
 Korelitz, Theodore H.; and Brodie, Alvin C., to Badger Company, Inc., The. Automatic designing, 3,636,328, 1-18-72, Cl. 235-151.1.
 Koremura, Norio, to Jintan Terumo Co., Ltd. Bag apparatus for transfusion of blood or fluid involving heat shrinkable tube means, 3,648,693, 3-14-72, Cl. 128-214.
 Koremura, Norio, to Jintan Terumo Co., Ltd. Blood cleaner device, 3,664,814, 5-23-72, Cl. 23-258.500.
 Korenblit, Izya Yakovlevich: *See*—
 Kaplansky, Arkady Fridmanovich; Korenblit, Izya Yakovlevich; Frenkel, Andrei Filipovich; and Zakhariev, Alexandr Ivanovich, 3,682,570.
 Korenicki, William John: *See*—
 Masson, Narinder; Korenicki, William John; and Lechner, Walter Ludwig, 3,677,084.
 Masson, Narinder; Korenicki, William John; and Lechner, Walter Ludwig, 3,703,098.
 Koreska, W.: *See*—
 Schutzner, Walter, 3,640,750.
 Koretsky, Alexandr Filippovich: *See*—
 Gerchenova, Nina Andreevna; Gurvich, Lev Moiseevich; Zelenkaya, Olga Ivanovna; Koretsky, Alexandr Filippovich; Machulsky, Petr Alexeevich; Nesterova, Maria Petrovna; Selifanova, Evdokia Prokofievna; Taubman, Arkady Borisovich; and Furacva, Ekaterina, 3,68,099.
 Korf, Christian, to Woods Research and Development Corporation. Water extended polyester resin, 3,687,883, 8-29-72, Cl. 260-29.600.
 Korfer, Gunter: *See*—
 Munk, Friedrich; and Korfer, Gunter, 3,702,184.
 Korfund Dynamics Corporation: *See*—
 Mui, Billy Y. K., 3,667,707.
 Korikovsky, Petr Konstantinovich; Kulichkov, Jury Semenovich; and Petukhov, Evgeny Dmitrievich, to Vsesojuzny Nauchno-Issledovatel'skiy institut Legkogo i textilnogo Mashinostroyeniya. Spindle headpiece for thread spinning and twisting apparatus, 3,681,909, 8-72, Cl. 57-106.000.
 Korinek, Dennis J.: *See*—
 Korinek, James L.; and Korinek, Dennis J., 3,680,524.
 Korinek, James L.; and Korinek, Dennis J. Mailbox flag-trip mechanism, 3,680,524, 8-1-72, Cl. 116-132.000.
 Korin, Jürgen: *See*—
 Scherer, Otto; and Korin, Jürgen, 3,651,156.
 Scherer, Otto; Rammelt, Paul Peter; Korin, Jürgen; and Frisch, Peter, 3,660,307.
 Korlow Corporation: *See*—
 Orłowski, Gerald J., 3,678,976.

- Orłowski, Gerald J., 3,682,214.
 Korman, Nathaniel I., to Ventures Research & Development Group. Method and apparatus for evaluating color transparencies and the like, 3,674,364, 7-4-72, Cl. 355-38.000.
 Korman, Samuel: *See*—
 Sheer, Charles; and Korman, Samuel, 3,644,781.
 Sheer, Charles; and Korman, Samuel, 3,644,782.
 Kormanik, Richard A., to Rex Chainbelt, Inc. Two-stage aerobic and facultative waste treatment, 3,701,727, 10-31-72, Cl. 210-14.000.
 Kormer, Vitaly Abramovich; Babitsky, Boris Davidovich; Jufa, Tatyana Lvovna; and Poletaeva, Irina Alexandrovna. Method of preparing linear polymers of cycloolefins, 3,660,369, 5-2-72, Cl. 260-93.1.
 Kormeyer, Dieter: *See*—
 Pankoke, Werner; and Kormeyer, Dieter, 3,662,710.
 Korn, Franklin Adam, to Bell Telephone Laboratories, Incorporated. Artificial line busy circuit, 3,673,339, 6-27-72, Cl. 179-18.000.
 Korn, Joseph: *See*—
 Schurig, Robert E.; and Korn, Joseph, 3,677,525.
 Korn, Joseph J., Sr. Swimming pool cleaning methods and apparatus therefor, 3,694,263, 9-26-72, Cl. 134-3.000.
 Korn, Tadeusz. Motional feedback amplifier, 3,647,969, 3-7-72, Cl. 179-1.
 Korn, Tadeusz. Two channel stereophonic amplifier, 3,659,217, 4-25-72, Cl. 330-175.
 Kornacki, Robert: *See*—
 Schuenke, Vernon W., 3,632,912.
 Kornahrens, Herman, to Garsite Products, Inc. Aircraft refueling vehicle, 3,648,720, 3-14-72, Cl. 137-351.
 Kornblum, Saul S., to Sandoz-Wander, Inc. Solid sustained release pharmaceutical preparation, 3,632,739, 1-4-72, Cl. 424-19.
 Kornei, Otto: *See*—
 Stryker, Frederick J.; and Kornei, Otto, 3,663,243.
 Korner, Gerhard: *See*—
 Schmitz, Wolfgang; and Korner, Gerhard, 3,681,549.
 Korner, Gerhard; Schmitz, Wolfgang; Dabringhausen, Friedhelm; and Gruber, Lothar, to Brown, Boveri & Cie Aktiengesellschaft. Gas blast switch, 3,674,957, 7-4-72, Cl. 200-148.000.
 Korner, Joachim: *See*—
 Mamok, Herbert; Hejl, Rainer; and Korner, Joachim, 3,689,354.
 Korner, Peter: *See*—
 Stolzenwald, Ralf J.; and Korner, Peter, 3,677,625.
 Kornfeld, Bessie: *See*—
 Blecker, Albert B., 3,655,367.
 Kornfeld, Edmund Carl, to Lilly, Eli, and Company. (Indolylmethyl) malonate compound, 3,676,458, 7-11-72, Cl. 260-326.140.
 Korngold, Emmanuel; and Selegny, Eric. Method of separation of ions from a solution, 3,686,089, 8-22-72, Cl. 204-180.000.
 Kornick, Abraham, to Reynolds Industries, Inc. Sealed coaxial cable connector, 3,681,739, 8-1-72, Cl. 339-94.000.
 Kornrumpf, William P.; and Cote, Paul T., to General Electric Company. Solid state circuits for guaranteed sequential flashing of photoflash lamp array, 3,668,468, 6-6-72, Cl. 315-323.
 Kornrumpf, William P., to General Electric Company. Induction cooking power converter with improved coil position, 3,697,716, 10-10-72, Cl. 219-10.490.
 Kornrumpf, William P.; and Harnden, John D., Jr., to General Electric Company. Induction cooking appliance with multicylinder power circuits, 3,697,717, 10-10-72, Cl. 2-10.490.
 Kornstein, Irving. Method and apparatus for making a metalized indicium, 3,692,610, 9-19-72, Cl. 156-249.000.
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 Kornylak, Andrew T. Transfer table, 3,645,379, 2-29-72, Cl. 198-127.
 Kornylak, Andrew T. Belt and pulley power transmission, 3,651,703, 3-28-72, Cl. 74-229.
 Kornylak, Andrew T. Gravity conveyor with rollers having elastomeric tires of high hysteresis materials, 3,651,911, 3-28-72, Cl. 193-35.
 Kornylak, Andrew T. Air flotation table conveyor, 3,651,956, 3-28-72, Cl. 214-1.
 Kornylak, Andrew T. Vertical chain type conveyor with tilting shelves, 3,664,482, 5-23-72, Cl. 198-20.
 Korobanov, Vladimir Nikolaevich: *See*—
 Mitkevich, Eduard Mikhailovich; Korobanov, Vladimir Nikolaevich; Babkina, Vera Jurievna; Shakhova, Alexandra Filippovna; Mefodiev, Vladimir Nikolaevich; and Gaidash, Nikolai Ivanovich, 3,682,602.
 Korodi, Miklos B.; and Runyan, Clarence R., to Holland Hitch Company. Impact fifth wheel, 3,675,946, 7-11-72, Cl. 280-440.000.
 Korol, Maurice G.; and Holley, Thomas H., to Kiewit, Peter, Sons' Co. Waterproof shaft and method of forming same, 3,636,714, 1-25-72, Cl. 61-41.
 Korolev, Jury Germanovich: *See*—
 Makarov, Gleb Nikolaevich; Zhitov, Boris Nikolaevich; Zagorets, Anatoly Mikhailovich; Korolev, Jury Germanovich; Syskov, Konstantin Ivanovich; Filonenko, Jury Yakovlevich; Dvorin, Semen Semenovich; Lerner, Ruvim Zinovievich; Mustafin, Fuat Akhtemovich; Semnov, Alexandr Semenovich; Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich, 3,667,746.
 Korolkov, Ivan Alexandrovich: *See*—
 Astafiev, Georgy Vasilievich; Korolkov, Ivan Alexandrovich; and Ozhgikhin, Anatoly Nikolaevich, 3,692,224.
 Korolkova, Galina Sergeevna: *See*—
 Gridunov, Ivan Tikhonovich; Unkovsky, Boris Vladimirovich; Donskaya, Marina Maiorovna; Andreev, Leonid Vladimirovich; Korolkova, Galina Sergeevna; Ignatova, Ljudmila Alexandrovna; and Grigorian, Alexandr Grigorievich, 3,681,278.
 Korom, Arpad: *See*—
 Greuter, Andre; and Korom, Arpad, 3,684,900.
 Koron, Jelko: *See*—
 Tavzes, Radovan; Koron, Jelko; and Kinsky, Evgen, 3,657,690.
 Korony, George: *See*—
 Grigorovici, Radu G.; Devenyi, Andrei Gavrilă; Florea, Valer; Korony, George; Bclu, Aretia; and Costachescu, Carol, 3,705,993.
 Koros, Robert M.: *See*—
 Li, Sik U.; Efron, Edward; and Koros, Robert M., 3,644,192.
 Korosi, Jeno; Pataky, Istvan; and Lang, Tibor, to Egyesult Gyogyszer-es Tapszergyar. O,O'-Bis (α -dimethylamino-propyl)-diisocougenol and salts thereof, 3,637,853, 1-25-72, Cl. 260-570.7.
 Korosi, Jeno; and Csaba, Gyorgy, to Egyesult Gyogyszer es Tapszergyar. Thionine derivatives, 3,641,016, 2-8-72, Cl. 260-243.
 Korotaev, Oleg Georgievich: *See*—
 Chepigo, Sergei Vladimirovich; Belenky, Solomon Iosifovich; Somov, Vsevolod Sergeevich; Voronkov, Vasily Gerasimovich; Belavsky, Mikhail Alexandrovich; Korotaev, Oleg Georgievich; Rodionova, Galina Sergeevna; Maximenko, Nikolai Spiridonovich; Glazman, Bori Aronovich; Belova, Larisa Alexandrovna; and Vorobiova, Galina Ivanovna, 3,654,084.
 Korotkov, Mikhail Alexeevich: *See*—
 Lykov, Mikhail Vasilievich; Rybalchenko, Gleb Fedorovich; and Korotkov, Mikhail Alexeevich, 3,652,013.
 Korotkov, Mikhail Mikhailovich: *See*—
 Erlykin, Ivan Ivanovich; Vasin, Alexandr Ivanovich; Korotkov, Mikhail Mikhailovich; Maximov, Vadim Yakovlevich; Matveev, Ivan Ivanovich; Kadyshchev, Vladimir Alexandrovich; Volkov, Valentin Vladimirovich; Firsol, Vladimir Borisovich; Butlatkin, Vladimir Dmitrievich; Malekhanov, Igor Evgenievich; and Suldin, Stanislav Nikolaevich, 3,693,570.
 Korovin, Ivan Stepanovich: *See*—
 Lutchenkov, Anatoly Matveevich; Shekhodanov, Mikhail Petrovich; Siyanov, Sergei Alexandrovich; Korovin, Ivan Stepanovich; Kholstova, Nonna Alexandrovna; Kreptseva, Valentina Nikolaevna; and Leskovskaya, Nina Petrovna, 3,671,125.
 Korpak, Charles, to General Motors Corporation. Method of reclaiming tungsten carbide tool bits, 3,634,923, 1-18-72, Cl. 29-426.
 Korpei, Joseph. Built-in retractable ice spur device for shoe heels, 3,693,271, 9-26-72, Cl. 36-61.000.
 Korpel, Adrianus: *See*—
 Adler, Robert; and Korpel, Adrianus, 3,700,903.
 Korpel, Adrianus, to Zenith Radio corporation. Acoustical holography by optically sampling a sound field in bulk, 3,636,248, 1-18-72, Cl. 178-6.
 Korpel, Adrianus, to Zenith Radio Corporation. Laser system for magnetic recording and playback, 3,651,262, 3-21-72, Cl. 178-6.6.
 Korpel, Adrianus, to Zenith Radio Corporation. Optical scanning apparatus, 3,670,098, 6-13-72, Cl. 178-6.000.
 Korpel, Adrianus, to Zenith Radio Corporation. Real-time acoustic imaging system, 3,706,965, 12-19-72, Cl. 340-5.000.
 Korpiun, Joachim; and Steeg, Joachim. Electroplating bath for depositing bright zinc plates, 3,694,330, 9-26-72, Cl. 204-55.000.
 Korpman, Ralf, to Johnson & Johnson. Pressure-sensitive adhesive tape, 3,676,202, 7-11-72, Cl. 117-122.000.
 Korsak, Kazimierz, to Piasecki Aircraft Corporation. Servo control for dual hydraulic systems, 3,640,185, 2-8-72, Cl. 91-411.
 Korsgen, Hans Helmuth; and Weller, Wolfgang, to Coathylene S.A. Preparing finely divided copolyamides by precipitation from alcohol-water solution, 3,679,638, 7-25-72, Cl. 260-78.000.
 Korsgren, Theodore Y. Snap action construction, 3,632,921, 1-4-72, Cl. 200-76.
 Korsgren, Theodore Y., to Robertshaw Controls Company. Snap acting electrical switch construction having reset means, 3,668,347, 6-6-72, Cl. 200-76.000.
 Korsgren, Theodore Y.: *See*—
 Stegina, Joseph M.; Cumming, Edward Perry; and Korsgren, Theodore Y., 3,657,680.
 Korshak, Vasily Vladimirovich; Gribova, Irina Alexandrovna; Krasnov, Alexandr Petrovich; Teplyakov, Mikhail Mikhailovich; Fedorova, Hoza Dmitrievna; and Shumayevskaya, Alla Nikolaevna. Antifriction material, 3,652,408, 3-28-72, Cl. 252-12.

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Korshalla, Joseph Daniel: *See—*
McGahren, William James; Porter, John Norman; and Korshalla, Joseph Daniel, 3,647,776.

Korsnas-Marma Aktiebolag: *See—*
Forsblad, Lars-Henrik; and Jerkeman, Per, 3,677,886.

Korta, Lawrence B.: *See—*
Bailey, James R.; Corbell, Paul I.; and Korta, Lawrence B., 3,697,989.

Korten, Charles W., to Campbell Soup Company. Process for tenderizing meat. 3,635,731, 1-18-72, Cl. 99-107.

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Granrath, Gunter, 3,643,674.

Kortge, Jerry W.; and Rodaer, James A., to General Motors Corporation. Photon energy detector generating signal in which durations of 1st and 2nd half cycles are responsive to photon energy and diode continuity respectively. 3,671,751, 6-20-72, Cl. 250-21.00j.

Korth, Jurgen, to Bukama GmbH. Nailing tool. 3,672,555, 6-27-72, Cl. 227-120.000.

Kortick, Morris, to Jewel Manufacturing Co. Method and apparatus for manufacturing rhinestone mesh. 3,634,917, 1-18-72, Cl. 29-10.

Kortner, Hans: *See—*
Gunther, Hans; Konigl, Georg; and Kortner, Hans, 3,644,048.

Kortschot, Cornelis; and Adams, Peter F., to Corporate Foods Limited. Method of preparing textured snack food product. 3,698,914, 10-17-72, Cl. 99-83.000.

Korver, Johannes A. N-acetyl-N-(2,4,6-triiodo-3-aminophenyl)- β -amino-isobutyric acid. 3,661,975, 5-9-72, Cl. 260-471.

Korwin, Irving, to Wideband Jewelry Corporation. Ornamental device. 3,670,524, 6-20-72, Cl. 63-18.000.

Korwin, Irving. Adjustable frame for ornament. 3,678,705, 7-25-72, Cl. 63-18.000.

Korzenski, David B.: *See—*
Patzelt, Harold I.; Connelly, Lawrence J.; Ballweber, Edward G.; Korzenski, David B.; and Slepicka, Kenneth L., 3,663,518.

Kos, Stanley M.: *See—*
Lecht, Charles P.; Harden, William O.; Lavell, Matthew J.; Kos, Stanley M.; and Pace, Robert A., 3,660,645.

Kosa, Ildiko: *See—*
Ecsezy, Zoltan; Kosa, Ildiko; and Knoll, Jozsef, 3,663,610.

Kosaka, Asahiro, to Matsushita Electric Industrial Co., Ltd. Instructional tape recorder. 3,685,171, 8-22-72, Cl. 35-35.00c.

Kosaka, Genzo: *See—*
Gomada, Nobuyasu; and Kosaka, Genzo, 3,647,577.

Kosaka, Nobuyasu; and Kosaka, Genzo, 3,701,874.

Kosaka, Kenzo: *See—*
Ozawa, Goro; Kosaka, Kenzo; Adachi, Kiyoshi; Okaya, Tsutomu; and Arikai, Takeo, 3,656,214.

Kosaka, Kenzo; Tsunewaki, Masami; Tanaka, Hideo; and Aoki, Akira, to Mitsubishi Rayon Co., Ltd. Method for manufacturing false twisted threads from thermoplastic resin tapes. 3,702,055, 11-7-72, Cl. 57-157.0ts.

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Kosaka, Mitsuo, to Shimadzu Seisakusho Ltd. Electrohydraulic metal forming machine. 3,631,700, 1-4-72, Cl. 72-56.

Kosaka, Shinya, to Olympus Optical Co., Ltd. Electric power supply device for an endoscope. 3,670,722, 6-20-72, Cl. 128-6.000.

Kosaka, Tomoaki: *See—*
Konno, Akira; and Kosaka, Tomoaki, 3,692,940.

Ohshima, Haruhiko; Mizuno, Hiroshi; Konno, Akira; and Kosaka, Tomoaki, 3,641,270.

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Kosarev, Sergei Petrovich: *See—*
Cheltsov, Vasily Mikhailovich; Kosarev, Sergei Petrovich; and Didrikh, Nina Voldemarovna, 3,661,373.

Kosarev, Viktor Sergeevich: *See—*
Lidorenko, Nikolai Stepanovich; Landsman, Arkady Pavlovich; Strebkov, Dmitry Semenovich; Zaitseva, Aita Konstantinovna; Zaddé, Vitaly Viktorovich; and Kosarev, Viktor Sergeevich, 3,653,971.

Kosayama, Akira: *See—*
Abe, Hiroshi; Shigeta, Yukio; Uchimaru, Fumihiko; Okada, Seizaburo; and Kosayama, Akira, 3,646,031.

Koschatzky, Bruno; Angioletti, Attilio E.; and Madonini, Nino, to Industrie Pirelli S.p.A. Winding machine for covering a hose of high polymer with reinforcing threads. 3,667,203, 6-6-72, Cl. 57-15.

Koschatzky, Karl, to Maschinenfabrik Augsburg-Nürnberg Aktiengesellschaft. Bending tool for bending deformable workpieces, such as metal sheets and the like. 3,705,512, 12-12-72, Cl. 72-57.000.

Kosche, Horst. Method of multiple transfer of latent electrostatic images. 3,704,120, 11-28-72, Cl. 96-1.00r.

Koschinat, Baldur: *See—*
Werner, Hans; Koschinat, Baldur; and Vormbaum, Otto, 3,643,906.

Koschoff, John; Haas, Kenneth C.; and Pettit, Robert F., to Teledyne, Inc. Thread trimmer for blind stitch sewing machine. 3,665,878, 5-30-72, Cl. 112-252.000.

Koscinski, Anthony: *See—*
Angner, Ronald Joseph; and Koscinski, Anthony, 3,651,274.

Angner, Ronald Joseph; and Koscinski, Anthony, 3,691,308.

Kosciolek, Joseph H.: *See—*
Dierdorff, Lee H., Jr.; and Kosciolek, Joseph H., 3,655,698.

Kosco, William C., to LaSalle Machine Tool, Inc. Alternating current static control system. 3,684,926, 8-15-72, Cl. 317-148.50r.

Kose, Tatsuo: *See—*
Hori, Kiyokazu; Kose, Tatsuo; and Ochi, Kazuo, 3,695,017.

Kosek, Joseph. Fishing reel. 3,652,031, 3-28-72, Cl. 242-219.

Koseki, Toshinori: *See—*
Aishima, Itsuo; Takashi, Yukichi; and Koseki, Toshinori, 3,694,403.

Kosel, Christian; and Hartmann, Adolf, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of linear polyester using metal germanates and metal glycol germanates as the catalyst. 3,654,233, 4-4-72, Cl. 260-5.

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Kosem, Marion: *See—*
Alessio, Sergio A.; Chow, Weichien; and Kosem, Marion, 3,703,033.

Kosem, Marion, to Allen-Bradley Company, mesne. Surface speed control of spindle-related numerical control system. 3,656,377, 4-18-72, Cl. 82-1.

Kosem, Marion, to Allen-Bradley Company, mesne. Numerical servo motor control system. 3,668,500, 6-6-72, Cl. 318-601.000.

Kosen, Marion, to Allen-Bradley Company, mesne. Feedrate computer using a read only memory. 3,651,314, 3-21-72, Cl. 235-151.11.

Koser, Robert F.: *See—*
Koser, Robert F.; and Messner, Jack D. (said Messner assor. to said), 3,698,575.

Koser, Robert F.; and Messner, Jack D., said Messner assor. to said Koser, Robert F. Automatically lowering unloader. 3,698,575, 10-17-72, Cl. 214-17.0db.

Koshar, Robert J.: *See—*
Dybvig, Douglas H.; and Koshar, Robert J., 3,654,361.

Fleming, Frederick A.; Koshar, Robert J.; and Wright, Charles D., 3,694,404.

Mitsch, Ronald A.; and Koshar, Robert J., 3,700,737.

Koshar, Robert J., to Minnesota Mining and Manufacturing Company. Certain difluoramine nitrile derivatives. 3,654,341, 4-4-72, Cl. 260-465.5.

Koshar, Robert J., to Minnesota Mining and Manufacturing Company. Functional bis (perfluoroalkylsulfonyle) alkyl compounds. 3,704,311, 11-28-72, Cl. 260-486.00h.

Koshelev, A. Vladimir: *See—*
Chelnokov, Ivan Ivanovich; Garbuzov, Vladimir Mikhailovich; Koshelev, A. Vladimir; Levit, Georgy Mikhailovich; Maltsev, Albert Alexandrovich; and Myachev, Vladimir Fedorovich, 3,701,402.

Koshiba, Masao: *See—*
Yamamoto, Hisao; Hirohashi, Atsuko; Izumi, Takahiro; and Koshiba, Masao, 3,673,243.

Koshida, Kazuo: *See—*
Oda, Kenzo; Okuda, Yukio; Kurata, Naoki; Koshida, Kazuo; and Tsuchino, Masatoshi, 3,660,504.

Koshihara, Atsuo. Winch. 3,666,239, 5-30-72, Cl. 254-175.500.

Koshiishi, Hiromichi: *See—*
Urushiyama, Nobuo; Koshiishi, Hiromichi; and Akanuma, Kaneo, 3,632,362.

Koshikawa, Takeo: *See—*
Nakanb, Mamoru; Kadowaki, Koju; Komurao, Isao; Koshikawa, Takeo; and Oshida, Bunzi, 3,703,550.

Koshikawa, Tsuneji; and Kobayashi, Masaharu, to Hitachi, Ltd. Frequency spectrum analyzer with a real time display device. 3,634,759, 1-11-72, Cl. 324-77.

Koshimo, Akio: *See—*

Maeda, Yutaka; Kimura, Hiroshi; Koshimo, Akio; Kanzaki, Nagamasa; Yasuzuka, Katsumi; and Furukawa, Yoshinobu, 3,643,412.

Tsuruta, Motohiro; Kimura, Hiroshi; Koshimo, Akio; Nara, Hirohisa; Goto, Tokuju; Amemiya, Kunio; and Matusaka, Hideki, 3,637,427.

Koshimoto, Shinsuke: *See—*
Fujimoto, Yasuo; and Koshimoto, Shinsuke, 3,637,837.

Koshimura, Masamitsu: *See—*
Yoshida, Toyohiko; Wako, Shinichi; Koshimura, Masamitsu; Matsuzaka, Junichi; and Haruta, Yukinori, 3,657,384.

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Andrusenko, Petr Ivanovich; Dolganov, Kint Evgenievich; Kovalev, Alexandr Ivanovich; Berezovsky, Pavel Iosipovich; Dmitrenko, Vladimir Ilich; Shukshin, Nikolai Pavlovich; Gutarevich, Jury Feodosievich; Kislov, Vladimir Grigorievich; Chevtayev, Andrei Vasilievich; Koshman, Eduard Ivanovich; and Filippov, Vladimir Vasilievich, 3,676,023.

Kosiba, Joseph K.: *See—*
Armistead, John M.; and Kosiba, Joseph K., 3,702,238.

Kosicki, Bernard B.: *See—*
Chester, Arthur N.; Kahng, Dawon; and Kosicki, Bernard B., 3,649,867.

Kosicki, Witold W.; and Hollingsworth, Charles M., to Horsman Dolls, Inc. Dual action phonetic doll. 3,638,351, 2-1-72, Cl. 46-117.

Kosiol, Wilfried: *See—*
Michael, Dietrich; and Kosiol, Wilfried, 3,660,344.

Michael, Dietrich; and Kosiol, Wilfried, 3,663,495.

Koskela, Dennis E., to Bio-Consultants, Inc. Centrifuge control system. 3,633,041, 1-4-72, Cl. 307-119.

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Kosker, Leon G., to Kennametal Inc. Boring bar. 3,647,307, 3-7-72, Cl. 408-181.

Koski, John T. Rainproof ventilated plastic sheet material for rainwear and method of making same. 3,703,432, 11-21-72, Cl. 161-110.000.

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Mc Intosh, Harold A.; Slocum, Gordon K.; and Koskolos, Nick J., 3,652,195.

Kosky, Richard P.: *See—*
Diwinsky, Gordon A.; and Kosky, Richard P., 3,664,922.

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Kosmowski, Wojciech B., to Advanced Controls Corporation. Centrifugal chuck device. 3,672,256, 6-27-72, Cl. 90-11.00a.

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Kosoczky, Ibolya: *See—*
Rakoczi, Jozsef; Mikite, Gyula; Petocz, Lujza; Fischer, Janos; Grasser, Katalin; and Kosoczky, Ibolya, 3,641,039.

Kosonocky, Walter Frank: *See—*
Rajchman, Jan Aleksander; and Kosonocky, Walter Frank, 3,656,121.

Kosowan, Michael B.: *See—*
DuRocher, Gideon A.; and Kosowan, Michael B., 3,655,240.

Kosrow, Robert L.; and Attwood, John G., to Union Special Machine Company. Automatic control for sewing machines. 3,687,097, 8-29-72, Cl. 112-210.000.

Koss Electronics, Inc.: *See—*
Lange, Martin, Jr., 3,632,903.

Koss, Louis J., to Capital Machine Company, Inc. Hydraulically controlled pressure cap. 3,654,973, 4-11-72, Cl. 144-178.

Koss, Vernon: *See—*
Lund, Robert; and Koss, Vernon, 3,648,759.

Kossen, Dale J.; Foster, Richard W.; and Benson, Charles R., to Alarm Lock Company, Inc. Electrically actuated switch com-

binated operating device for permitting operation of latches and mechanisms. 3,641,396, 2-8-72, Cl. 317-134.

Kossuth, Otto: *See—*
Wickham, William T.; Brown, Frank; Kleykamp, Donald L.; and Kossuth, Otto, 3,636,285.

Kost, Erwin, to Schloemann Aktiengesellschaft. Fluid operated coupling with radially guided friction segments. 3,648,812, 3-14-72, Cl. 192-88.

Kost, Robert A., to City of Fort Collins. Modular utility vault. 3,672,103, 6-27-72, Cl. 52-20.000.

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Koste, Bernard F.: *See—*
Bremmer, James S.; and Koste, Bernard F., 3,675,904.

Koste, Elsie E.: *See—*
Bremmer, James S.; and Koste, Bernard F., 3,675,904.

Kostechko, Roza Fedorovna: *See—*
Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pyanov, Valentin Nikiforovich; Golovkin, Jury Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.

Kostel, Paul Steven; Borgen, William Earl; and Willert, Richard Joseph, to M-Tron Industries Inc. Electronic air purifier. 3,685,258, 8-22-72, Cl. 55-129.000.

Kostecky, Premysl: *See—*
Havlas, Jiri; Kostecky, Premysl; Holy, Zdenek; Rydlo, Jeromir; and Rejnart, Vlastimil, 3,643,843.

Havlas, Jiri; Kostecky, Premysl; and Sedlarik, Jaroslav, 3,673,649.

Horatschke, Rudolf; Holy, Zdenek; Havlas, Jiri; Kostecky, Premysl; and Rejnart, Vlastimil, 3,643,990.

Sedlarik, Jaroslav; Havlas, Jiri; and Kostecky, Premysl, 3,640,440.

Kostelnicek, Richard J., to Esso Production Research Company. Flexible geophone. 3,689,875, 9-5-72, Cl. 340-17.000.

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Koster, Claus: *See—*
Eckert, Konrad; Eheim, Franz; Hofer, Gerald; and Koster, Claus, 3,699,939.

Koster, Klaus, to Mount Hope Machinery Company. Sheet guiding and opening apparatus. 3,673,647, 7-4-72, Cl. 26-54.000.

Kosters, Paul Louis Marie, to Sperry Rand Corporation. Power operated typewriter. 3,633,723, 1-11-72, Cl. 197-17.

Kosti, Carl M. Radio sensitive film. 3,682,638, 8-8-72, Cl. 96-76.000.

Kostikov, Vladimir Grigorievich: *See—*
Kuznetsov, Rostislav Sergeevich; Uskach, Alexandr Grigorievich; and Kostikov, Vladimir Grigorievich, 3,632,931.

Kostin, Konstantin Fedorovich; Sapunov, Georgy Konstantinovich; Svirin, Alvin Afanasievich; Strakhov, Valery Ivanovich; and Shur, Grigory Iosifovich. Stator bar winding of electric machine. 3,648,091, 3-7-72, Cl. 310-260.

Kostohryz, Frank J.: *See—*
Ettlinger, Ralph, Jr.; and Kostohryz, Frank J., 3,653,507.

Kostroun, Vaclav; and Quenzler, Henry H. W., to Boeing Company, The. Aircraft tire explosion prevention system. 3,645,479, 2-29-72, Cl. 244-103.

Kostrzewski, James A.: *See—*
Cunha, Harold; and Kostrzewski, James A., 3,698,454.

Kostuch, Donald J.: *See—*
Bartholomew, Gerald E.; Kostuch, Donald J.; Robinson, Thomas E.; and Rohland, William S., 3,697,951.

Kostur, Nykola. Grain dispensing apparatus. 3,703,247, 11-21-72, Cl. 222-442.000.

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Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Typitsyn, Konstantin Konstantinovich; Klimashko, Vladimir Vasilievich; and Plavskikh, Vladimir Dmitrievich, 3,651,874.

Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Typitsyn, Konstantin Konstantinovich; and Plavskikh, Vladimir Dmitrievich, 3,705,633.

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Kosubek, Uwe: *See*—
Hertel, Hasso; Gehre, Kurt; Lowenfeld, Rudolf; and Kosubek, Uwe, 3,697,216.
Lowenfeld, Rudolf; and Kosubek, Uwe, 3,642,424.

Kosuge, Fumisada: *See*—
Fujiyama, Susumu; and Kosuge, Fumisada, 3,644,553.

Kosuge, Hiroshi: *See*—
Yamachi, Yukio; Fujii, Hirohiko; Yamato-Machi, Kita; Kosuge, Hiroshi; and Morita, Koichi, 3,684,949.

Kosuge, Kuniko: *See*—
Honjo, Satoru; Takimoto, Masaaki; Matsumoto, Seiji; and Kosuge, Kuniko, 3,705,032.

Kosugi, Kazuo: *See*—
Takeo, Keinosuke; Kosugi, Kazuo; and Kamise, Tadaoki, 3,669,762.

Kosugi, Takeshi; and Kunimitsu, Toshio, to Nakakita Seisakusho Company Limited. Method of automatic valve control. 3,664,358, 5-23-72, Cl. 137-14.

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Kosziech, Karl-Heinz: *See*—
Kannamuller, Gerhard; Kosziech, Karl-Heinz; Goller, Werner; Kugler, Walter; and Muller, Yorck, 3,637,322.

Kosziech, Karl-Heinz; and Teschner, Kurt, to Dornier A.G. Rotor mast support for helicopters. 3,697,024, 10-10-72, Cl. 248-15.000.

Koszyn, Allan I.: *See*—
Pelavin, Milton H.; Koszyn, Allan I.; and Heier, Earl, 3,634,868.

Kot, Vladimir Ivanovich: *See*—
Scherban, Alexandr Nazarevich; Furman, Neonil Izrailevich; Sotnichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Jury Ivanovich; Sutormin, Jury Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chashinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna, 3,678,489.

Kotacka, Josef: *See*—
Ferda, Josef; and Kotacka, Josef, 3,650,128.

Kotaka, Katsuhiro: *See*—
Nakagami, Norihiko; Tanaka, Yasuyuki; Kotaka, Katsuhiro; and Seki, Masamitsu, 3,652,806.

Kotani, Hirotada: *See*—
Shoji, Osamu; Hironaka, Jouji; and Kotani, Hirotada, 3,647,626.

Kotch, Robert Alan, to Bell Telephone Laboratories, Incorporated. Delta modulation system using variable weighted quant to overcome slope limitations. 3,646,442, 2-29-72, Cl. 325-38.

Kotera, Noboru: *See*—
Hitomi, Teiichi; Kotera, Noboru; and Sakamoto, Hitoshi, 3,682,833.

Kotera, Nobuo; and Katayama, Yoshifumi, to Hitachi, Ltd. MOS-FET infrared detector. 3,665,190, 5-23-72, Cl. 250-83.3.

Kotera, Norio: *See*—
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,647,866.

Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,662,000.

Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Kuruma, Hiroshi; and Murata, Yoshiro, 3,666,840.

Kaminaka, Hiroshi; Kotera, Norio; Kanda, Tatsuo; Kuruma, Hiroshi; Yanagihara, Hideki; and Murata, Yoshiro, 3,691,278.

Kotera, Yoshihide: *See*—
Araki, Michio; Uchida, Hiroshi; and Kotera, Yoshihide, 3,657,351.

Kothari, Girish U.: *See*—
Shenfeld, Richard S.; Musser, Frederick M.; and Kothari, Girish U., 3,644,252.

Kothe, Erich W., to Anaconda Wire and Cable Company, mesne. Tamper-proof barrier. 3,633,194, 1-4-72, Cl. 340-248.

Kotheimer, William C.: *See*—
Chen, Muchuan M.; and Kotheimer, William C., 3,704,392.

Kothmann, Gilbert C. Safety trailer hitch. 3,677,564, 7-18-72, Cl. 280-457.

Kotkins, Henry L., to Skyway Luggage Company. Luggage construction. 3,669,228, 6-13-72, Cl. 190-41.00r.

Kotla, John J.: *See*—
Carlsen, Donald W.; Kotla, John J.; and Parker, Arden A., 3,676,646.

Kotler, Max; and Ravese, Frank E., to DeJur-Amsco Corporation. Feed means for optical display device and control system therefor. 3,690,746, 9-12-72, Cl. 352-12.000.

Kotler, Richard: *See*—
Eibe, Werner W.; and Kotler, Richard, 3,648,505.

Kotler, Richard G.: *See*—
Feuer, Michael M.; and Kotler, Richard G., 3,679,150.

Kotliar, Abraham M.: *See*—
Lamb, George E. R.; Prevorsek, Dusan C.; Kotliar, Abraham M.; and Oswald, Hendrikus J., 3,705,074.

Koto Denki Kabushiki Kaisha: *See*—
Yoshiyama, Ichiro; Okishima, Yoshiro; and Harada, Saburo, 3,633,144.

Kotoc, Stefan, to Ustav pro vyzkum motorovych vozidel. Reaction motor including air flow inducing means. 3,680,317, 8-1-72, Cl. 60-269.000.

Kotos, Peter, to General Electric Company. Static switch protective circuit activated by shorted commutation thyristor. 3,646,398, 2-29-72, Cl. 317-33.

Kotov, Anatoly Mikhailovich: *See*—
Mikhelits, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itskson, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorovich, 3,705,793.

Kotov, Evgeny Pavlovich; Legostov, Viktor Vladimirovich; Stepanov, Evgeny Alexeevich; Chuchalov, Alexandr Mikhailovich; Maiorov, Nikolai Kuzmich; Merezko, Gennady Pavlovich; Komarov, Anatoly Semenovich; and Sosnitsky, Nikolai Georgievich. Automatic engraving machine. 3,694,570, 9-26-72, Cl. 178-6.60b.

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Kott, Alan C.: *See*—
Staudacher, Gerald R.; Lane, George A.; and Kott, Alan C., 3,680,483.

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Kottenstette, James P., to Denver Research Institute. Intermittent arc illumination source. 3,707,649, 12-26-72, Cl. 315-239.000.

Kotter, James I.: *See*—
Mayer, Mayer, Jr.; Kotter, James I.; Salaun, Harold L., Jr.; and Brown, Roger S., 3,696,600.

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Kottmeier, Merrill F.: *See*—
Happ, George M.; and Kottmeier, Merrill F., 3,669,274.
Happ, George M.; and Kottmeier, Merrill F., 3,680,705.

Kottsieper, Edward: *See*—
Haas, Edgar; and Kottsieper, Edward, 3,682,029.

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Kotzar, Andrew J.: *See*—
Singer, Robert B.; Muir, Earl B.; and Kotzar, Andrew J., 3,654,822.

Kotzbauer, Judith M., to Allergan Pharmaceuticals. Bactericidal stabilized ascorbic acid composition. 3,681,492, 8-1-72, Cl. 424-141.000.

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Kouba, Russell W.: *See*—
Shea, James J.; and Kouba, Russell W., 3,635,215.

Kough, Blair B.: *See*—
Martin, Otis M.; Kough, John K.; Miller, Silas M.; and Kough, Blair B., 3,664,081.

Kough, John K.: *See*—
Martin, Otis M.; Kough, John K.; Miller, Silas M.; and Kough, Blair B., 3,664,081.

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Kouno, Hirokazu: *See*—
Kurauchi, Noritaka; Fujimoto, Tokio; Yoshida, Kenichi; Ui, Masamitsu; Nagata, Zenji; and Kouno, Hirokazu, 3,636,436.

Kourganoff, Jean-Claude. Method and appliance for recording information stored on punched cards. 3,633,803, 1-11-72, Cl. 225-93.

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Kourtoglou, George Chris: *See*—
Chrysanthis, Chris A.; and Kourtoglou, George Chris, 3,669,254.

Kousaka, Masanobu: *See*—
Arima, Kei; Tamura, Gakuzo; Imanaka, Hiroshi; Kousaka, Masanobu; and Fukuda, Akio, 3,699,121.

Kousaka, Susumu: *See*—
Ashikaga, Tadao; and Kousaka, Susumu, 3,660,556.

Koushuha-Netsuren Kabushiki Kaisha: *See*—
Amakasu, Tatu; and Yamazaki, Takao, 3,648,006.

Mizuma, Katsuhisa, 3,654,968.

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Kouth, Herbert: *See*—
Golde, Hans; Herrmann, Friedrich; Kouth, Herbert; and Marr, Fritz, 3,675,371.

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Van Klinken, Jakob; Kouwenhoven, Herman Wouter; and Van Weeren, Pieter Aldert, 3,697,444.

Kovac, Frederick J.; and Rye, Grover W., to Goodyear Tire & Rubber Company, The. Tire cord, etc. 3,665,994, 5-30-72, Cl. 152-359.000.

Kovac, Zlata. Electroless codeposition of nickel alloys. 3,674,516, 7-4-72, Cl. 106-1.000.

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Kmecak, Ronald A.; Kovach, Stephen M.; and Patrick, Ralph E., 3,679,768.
Kmecak, Ronald A.; and Kovach, Stephen M., 3,679,769.
Kmecak, Ronald A.; and Kovach, Stephen M., 3,692,863.
Kmecak, Ronald A.; and Kovach, Stephen M., 3,699,181.
Patrick, Ralph E.; Kmecak, Ronald A.; and Kovach, Stephen M., 3,686,340.

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Nagy, Zoltan; Szepesy, Laszlo; Kovacs, Attila; and Sebestyen, Zsigmond, 3,644,555.

Kovacs, Csaba A.: *See*—
Raines, Stephen; and Kovacs, Csaba A., 3,644,397.

Kovacs, Geza L., to Pori, Inc. Treatment of waste HCl pickle liquor. 3,682,592, 8-8-72, Cl. 23-154.000.

Kovacs, Hanna N.: *See*—
Delman, Alvin D.; Kovacs, Hanna N.; and Simms, Bernard B., 3,637,607.

Kovacs, Imre. Splatter shield and bumper for paint roller. 3,654,658, 4-11-72, Cl. 15-248.

Kovacs, Kalman: *See*—
Bernath, Gabor; Kovacs, Kalman; Palosi, Eva; Gorog, Peter; and Szporny, Lazzlo, 3,654,360.

Kovacs, Lloyd: *See*—
Gasior, Joseph; and Kovacs, Lloyd, 3,640,661.
Pomper, Anthony W.; and Kovacs, Lloyd, 3,671,021.

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Koval, Robert J., to Vent Products Co., Inc. Ventilating louver unit. 3,645,195, 2-29-72, Cl. 98-121.

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Kovalev, Alexandr Ivanovich: *See*—
Andrusenko, Petr Ivanovich; Dolganov, Kint Evgenievich; Kovalev, Alexandr Ivanovich; Berezhovsky, Pavel Isopovich; Dmitrenko, Vladimir Ilich; Shukshin, Nikolai Pavlovich; Gutarevich, Jury Feodosievich; Kislov, Vladimir Grigorovich; Chevtsev, Andrei Vasilievich; Koshman, Eduard Ivanovich; and Filippov, Vladimir Vasilievich, 3,676,023.

Kovalev, Valery Nikolaevich: *See*—
Bukarkin, Boris Antonovich; and Kovalev, Valery Nikolaevich, 3,661,416.

Kovar, Henry L., to Kovar, John R., Mfg., Co., Inc. Hydraulically foldable soil conditioner. 3,637,027, 1-25-72, Cl. 172-311.

Kovar, John R., Mfg., Co., Inc.: *See*—
Kovar, Henry L., 3,637,027.

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Kovarik, Vincent J. Game bird transporting device. 3,695,233, 10-3-72, Cl. 119-19.000.

Kovats, Andre. Gas turbine locomotive. 3,703,146, 11-21-72, Cl. 105-61.500.

Kovats, Zoltan: *See*—
Gestler, David J.; Kovats, Zoltan; and Kolakowski, Alfred W., 3,685,353.

Kovic, Joseph J., to Packaging Industries, Inc. Apparatus and method for transporting articles. 3,701,297, 10-31-72, Cl. 83-13.000.

Kovy, Margit: *See*—
Bessko, Dezso; Gallai, Gyula; Farnady, Pal; Jozsa, Geza; Kovy, Margit; Teller, Laszlo; Suba, Andras; and Tisza, Sandor, 3,652,166.

Kowa Company, Limited: *See*—
Mizushima, Yutaka; and Nagai, Hidetaka, 3,689,632.
Tsunoo, Shigeru; Horisaka, Kazuyoshi; Yamaguchi, Akiyuki; Adachi, Kikuo; and Umezawa, Osamu, 3,658,966.

Kowaczuk, Frank J.: *See*—
Deli, Jack M.; Kowaczuk, Frank J.; Fanslow, Ronald J.; and Pisani, Marino J., 3,645,350.

Kowada, Giichiro: *See*—
Shimada, Yasuo; and Kowada, Giichiro, 3,650,658.

Kowal, Leonard, to Ampex Corporation. Servo for video tape apparatus with editing capabilities. 3,636,252, 1-18-72, Cl. 178-6.6.

- Kowal, Leonard J., to Imperial-Eastman Corporation, mesne. Hand tool for connecting a fitting to a duct. 3,660,884, 5-9-72, Cl. 29-237.
- Kowal, Leonard J., to Imperial-Eastman Corporation, mesne. Method of making up an expandable insert fitting. 3,665,591, 5-30-72, Cl. 29-507.
- Kowal, Leonard J., to I-T-E Imperial Corporation, mesne. Tube cutter. 3,665,604, 5-30-72, Cl. 30-102,000.
- Kowal, Leonard J., to Imperial-Eastman Corporation. Tube bender. 3,685,335, 8-22-72, Cl. 72-319,000.
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- Bobeck, Andrew Henry; Kowalchuk, Roman; and Reekstin, John Peter, Jr., 3,706,081.
- Kowalczyk, Adam V. Nail chuck. 3,643,852, 2-22-72, Cl. 227-149.
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- Kowalick, James F.: *See—*
- Stiefel, Ludwig; Silverstein, Martin S.; and Kowalick, James F., 3,706,278.
- Kowalik, John J.: *See—*
- Scarnato, Thomas J.; Peacock, Peter J.; Cicci, George B.; Krage, Paul W.; and Kowalik, John J., 3,683,602.
- Scarnato, Thomas J.; Peacock, Peter J.; and Kowalik, John J., 3,699,758.
- Kowalski, Anna: *See—*
- Zsidos, Frank J., Jr.; and Kowalski, Anna, 3,702,298.
- Kowalski, Conrad Edward: *See—*
- Coombs, Peter M.; Davey, Ernest; and Kowalski, Conrad Edward, 3,704,928.
- Kowalski, Daniel C., to Bendix Corporation, The. Optical correlator for automatic stereoplotting apparatus. 3,648,039, 3-7-72, Cl. 235-181.
- Kowalski, Hubert: *See—*
- Buchsteiner, Hans; Bernhardt, Bruno; and Kowalski, Hubert, 3,656,362.
- Kowalski, Leon. Camper unit lifting device. 3,697,044, 10-10-72, Cl. 254-45,000.
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- Them, Edward G.; and Kowalski, Walter C., 3,660,793.
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- Kowalski, Xavier, to Monsanto Company. Processes for scouring textiles. 3,645,670, 2-29-72, Cl. 8-139.
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- Koya, Ito: *See—*
- Watai, Mitsuo; and Koya, Ito, 3,673,446.
- Koyama, Eisuke: *See—*
- Mori, Haruki; Takahashi, Toshinao; and Koyama, Eisuke, 3,643,147.
- Koyama, Keizi: *See—*
- Yano, Tomosaburo; Oishi, Naoki; Komatsu, Akitoshi; and Koyama, Keizi, 3,647,415.
- Koyama, Machiko: *See—*
- Katto, Hisao; Kobayashi, Kazunari; Koga, Yasushi; and Koyama, Machiko, 3,668,095.
- Koyama, Magame, to Columbia Machine, Inc. Apparatus for producing a molded article with a recess therein. 3,662,438, 5-16-72, Cl. 25-41.
- Koyama, Mamoru: *See—*
- Hamaguchi, Hachiro; Sakashita, Misao; and Koyama, Mamoru, 3,644,115.
- Koyama, Masaaki. Automatic-circular winding and releasing belt conveyor. 3,661,244, 5-9-72, Cl. 198-184.
- Koyama, Masahiro: *See—*
- Kurauchi, Noritaka; Tada, Shotaro; Shima, Hiroshi; Hiraoka, Susumu; Nagao, Taichiro; Koyama, Masahiro; Shiraishi, Satoshi; Shindo, Masuo; and Kobayashi, Yoshinobu, 3,674,990.
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- Koyama, Mikihiro, to Honda Giken Kogyo Kabushiki Kaisha. Support of an air hose of an air cleaner of a motorcycle at its inlet opening. 3,698,503, 10-17-72, Cl. 180-33,00r.
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- Mochizuki, Mitsuaki; Tanaka, Minoru; and Koyama, Tadataka, 3,691,656.
- Koyama, Takeo: *See—*
- Usami, Seiji; Nishimura, Kotaro; Koyama, Takeo; and Fukushi, Saburo, 3,634,291.
- Koyanagi, Hironobu: *See—*
- Okada, Hiroshi; Osakada, Atsushi; Minami, Satoyuki; Aoki, Toshikazu; Hisamori, Tetsuo; Koyanagi, Hironobu; and Otsuka, Hiromi, 3,692,602.
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- Belcher, Richard A.; and Kozacka, Frederick J., 3,697,916.
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- Kozacka, Frederick J., to Chase-Shawmut Company, The. Electric cartridge fuses with blown fuse indicator. 3,663,915, 5-16-72, Cl. 337-244.
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- Kozacka, Frederick J., to Chase-Shawmut Company, The. Compact polyphase fuse. 3,671,910, 6-20-72, Cl. 337-146,000.
- Kozacka, Frederick J., to Chase-Shawmut Company, The. System of fluid cooled fuses. 3,671,911, 6-20-72, Cl. 337-166,000.
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- Kozai, Yoshinori: *See—*
- Inaba, Seiemon; Yoshitake, Norito; Imazeki, Ryoji; and Kozai, Yoshinori, 3,636,525.
- Kozak, Edward J. Rhythm coordinator device. 3,657,456, 4-18-72, Cl. 35-8.
- Kozak, Larry M.; and Southern, Raymond L., to Allegheny Ludlum Steel Corporation. Apparatus for roll pressure bonding. 3,632,034, 1-4-72, Cl. 228-4.
- Kozawa, Shichibei; and Yamamoto, Hideki, to Shimadzu Seisakusho Ltd. Automated light scattering photometer. 3,659,946, 5-2-72, Cl. 356-104.
- Kozawa, Tetuo: *See—*
- Sakawa, Katuaki; and Kozawa, Tetuo, 3,705,561.
- Kozbelt, Lloyd S.: *See—*
- Drugmand Lester D.; and Kozbelt, Lloyd S., 3,668,598.
- Kozhevnikov, Rady Savvich: *See—*
- Sokolov, Evgeny Vyacheslavovich; Yashkin, Eduard Petrovich; Sysoev, Vadim Ivanovich; Kozhevnikov, Rady Savvich; Chabanov, Alim Ivanovich; Shinkarenko, Mikhail Ivanovich; Grinchuk, Petr Stepanovich; Fomin, Georgy Georgievich; and Rusacv, Vladimir Ivanovich, 3,686,907.

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- Kozik, Andrew F.: *See—*
- Dhaka, Vir A.; and Kozik, Andrew F., 3,681,147.
- Kozinski, Allen A.: *See—*
- Petersen, Richard D.; and Kozinski, Allen A., 3,664,949.
- Koziol, Konrad: *See—*
- Zollner, Dieter; Koziol, Konrad; Reichelt, Bernhard; and Lippert, Wolfgang, 3,676,371.
- Koziol, Walter, to Beatrice Foods Co. Slip out glass panel for cover member. 3,667,648, 6-6-72, Cl. 220-41.
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- Kozlik, Robert F.: *See—*
- Norsby, Norrain E.; Kozlik, Robert F.; and Roach, John R., 3,694,229.
- Kozlikov, Vadim Lvovich: *See—*
- Mironov, Vladimir Florovich; Fedotov, Nikolai Semenovich; and Kozlikov, Vadim Lvovich, 3,697,569.
- Kozlov, Ivan Ivanovich: *See—*
- Stebakov, Emelian Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.
- Kozlov, Lev Ivanovich: *See—*
- Chaikin, Boris Semenovich; Kozlov, Lev Ivanovich; Oblasti, Khimki Moskovskoi; Malchenko, Thomas Vasilievich; Mokrushin, Konstantin Dmitrievich; Yarovskiy, Lev Volfovich; Maryanchik, Grigory Efimovich; Zhelnov, Boris Stepanovich; Tarasov, Vasily Mikhailovich Trubetskov, Kirill Mikhailovich; Borschevsky, Igor Konstantinovich; and Chermensky, Dmitry Pavlovich, 3,697,058.
- Kozlov, Sergei Mikhailovich: *See—*
- Platov, Vladimir Ivanovich; and Kozlov, Sergei Mikhailovich, 3,635,165.
- Kozlov, Stanislav Fedorovich. Low energy nuclear radiation detector of the semiconductor type. 3,638,022, 1-25-72, Cl. 250-83,3.
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- Kozlow, Edward: *See—*
- Hardt, Robert C.; and Kozlow, Edward, 3,660,986.
- Kozlowski, Joseph J.: *See—*
- Jelinek, James W.; Kozlowski, Joseph J.; and Gooding, Jack E., 3,657,640.
- Kozlowski, Joseph Z., to United States of America, Atomic Energy Commission, mesne. Cryogenic fluid discharge muffler. 3,648,472, 3-14-72, Cl. 62-45.
- Kozlowski, Robert L. Container with replaceable plug and pouring spout. 3,672,547, 6-27-72, Cl. 222-567,000.
- Kozlowski, Theodore R.: *See—*
- Grego, Peter; Kozlowski, Theodore R.; and Schuyler, Peter M., 3,650,720.
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- Kozmal, Frantisek: *See—*
- Zelnik, Anrej; Kozmal, Frantisek; Domansky, Radislav; and Pajtik, Josef, 3,660,245.
- Kozmin, Mikhail Ivanovich: *See—*
- Bondarev, Konstantin Timofeevich; Kozmin, Mikhail Ivanovich; Minakov, Anatoly Gavrilovich; Minin, Vladimir Ivanovich; Mitkevich, Grigory Iosifovich; and Strekalov, Anatoly Vasilievich, 3,684,475.
- Kozmin, Mikhail Ivanovich. Glass tank furnace. 3,633,890, 1-11-72, Cl. 263-40.
- Kozol, Eugene T.: *See—*
- Barcomb, James G.; and Kozol, Eugene T., 3,643,039.
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- Kozowyk, Ted: *See—*
- Sinclair, Alex H.; Kozowyk, Ted; Reynolds, Ralph K.; Near-gardner, Robert F.; and Edson, Robert H., 3,642,332.
- Kozu, Haruo; Kimura, Morio; Watanabe, Tadashi; Naozumi, Hiratsuka; and Yoshida, Michio, to Kansai Paint Company, Limited. Short oil alkyd resins. 3,655,596, 4-11-72, Cl. 260-22.
- Kozu, Isao: *See—*
- Hataya, Yukio; Kozu, Isao; and Nakashima, Yasutaka, 3,637,952.
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- Kozub, William R.: *See—*
- Kirkham, William R.; and Kozub, William R., 3,635,798.
- Kozuka, Hirotosugu: *See—*
- Koga, Yasushi; Kozuka, Hirotosugu; and Tauchi, Shoji, 3,682,699.
- Kozuka, Tadashi: *See—*
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- Kozul, Theodore L.; and Crandell, Paul A., to Baytron Co., Inc. Millimeter wave translating device with changeable insert element. 3,681,718, 8-1-72, Cl. 333-97,00r.
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- Nishizawa, Jun-ichi; Sasaki, Ichimon; Ishida, Katsuhiko; Tauchi, Syoji; Ishimura, Takeshi; Seki, Takeo; and Kozuma, Noboru, 3,634,849.
- Kozyrev, Jury Georgievich: *See—*
- Esterzon, Mikhail Abramovich; Kozyrev, Jury Georgievich; and Yakobson, Mikhail Osipovich, 3,636,747.
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- Krabbe, Erik. Biological process for purification of brewery effluent. 3,650,947, 3-21-72, Cl. 210-15.
- Krabetz, Richard: *See—*
- Armbrust, Herbert; Sturm, Hans Juergen; Engelbach, Heinz; Wistuba, Hermann; Stoessel, Armin; and Krabetz, Richard, 3,699,134.
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- Kracklauer, Aloysius C., to Sparkler Manufacturing Company. Method and apparatus for retaining and dislodging filter cake. 3,655,049, 4-11-72, Cl. 210-81.
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- Kraemer, Friedrich; Mandel, Jörn; Mayer, Siegfried; Rohrig, Klaus; Schulz, Hans-Peter; Weidenmüller, Hilmar; Haverkamp, Klaus Dieter; and Motz, Jürgen, to Rheinstahl Huttenwerke. Process for accelerating metallurgical reactions. 3,664,826, 5-23-72, Cl. 75-0.
- Kraemer, Nancy: *See—*
- Aszalos, Adorjan; Robison, Robert S.; Kraemer, Nancy; Henshaw, Jo Ann; and Giannini, Mary Suzanne, 3,674,867.
- Kraemer, Ronald G.: *See—*
- Skane, Frederick A.; Aker, Ludwig E.; and Kraemer, Ronald G., 3,662,847.
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Norman, Donald E., 3,661,322.
Partyka, Anthony S., 3,690,898.
Piatek, Robert J., 3,661,243.
Roberts, Miron J., 3,650,768.
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Kelp, Fritz, 3,705,057.
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Scarnato, Thomas J.; Gordon, Paul C.; Hunter, Stephen R.; Krage, Paul W.; and Zablocki, Richard A., 3,673,779.
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Klyamkin, Semen Solomonovich; and Kraichik, Jury Solomonovich, 3,675,082.
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Folson, Henry J.; Boxley, Denis V.; Kingsbury, James; Kraitzer, Shlomo; Soullakis, George; and Whittington, Jimmie L., 3,706,153.
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Lukesch, Heinz; Krakowsky, Hans; and Heeb, Dieter, 3,648,899.
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Burakoff, Valdemar; Krakstrom, Paul; Sinervo, Into; and Solitanner, Kaarlo H., 3,636,738.
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Blank, Gunter; and Kramer, Erwin, 3,633,344.
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Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Schorre, Gustav; Hovy, J. W. Hermann; and Schorsch, Ernst, 3,669,956.
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Ellis, Paul H.; Kibler, Ralph J.; and Kramer, Richard R., 3,641,691.
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Bigley, Arthur C., Jr.; and Kramlick, Emil S., 3,642,267.
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Heilman, Marlin S.; Kranys, Rudolph J.; and Jones, Donald, 3,701,345.
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Zenner, Walter J.; and Kranz, Raymond E., 3,670,861.
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Gross, Franz; and Krapf Rudolf, 3,683,209.
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Strelets, Khaim Lipovich; Chesnokov, Alexandr Sergeevich; Devyatkin, Vladimir Nikolaevich; Tatakin, Alexandr Nikolaevich; Krasikov, Evsei Dmitrievich; Leonova, Ljudmila Sergeevna; Medvetskaya, Galina Arkadiyevna; and Nechaeva, Tatyana Georgievna, 3,676,323.
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Fadner, Thomas A.; and Kraske, Karl V., 3,702,779.
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Lifshits, Viktor Senderovich; Andrianov, Vladimir Rubenovich; Rykalin, Nikolai Nikolaevich; Krasnev, Tibor Ferentsevich; Podola, Nikolai Vasilievich; and Krivosos, Vadim Petrovich, 3,681,563.
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Korshak, Vasily Vladimirovich; Gribova, Irina Alexandrovna; Krasnov, Alexandr Petrovich; Teplyakov, Mikhail Mikhailovich; Fedorova, Hoza Dmitriyevna; and Shumaevskaya, Alla Nikolaevna, 3,652,408.

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Kaplan, Irving Leonard, 3,670,902.
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Mielnikowski, Eugene F., Jr.; Kratcoski, Frank L.; and La Morte, Gerardo M., 3,653,756.
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Johnson, Paul E.; Haugh, Clarence G.; Warren, George F.; and Kratky, Bernard A., 3,648,409.
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Pohl, Harold J.; and Kratky, Raymond H., 3,670,747.
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Gruler, Josef; Borgonovi, Bruno; Streitberger, Ernst Friedrich Henning; and Kratz, Kurt Wilhelm, 3,646,326.
Krattenmacher, Willi: *See—*
Crowe, James A.; and Krattenmacher, Willi, 3,683,977.
Kratz, Erich: *See—*
Leuck, Hans; and Kratz, Erich, 3,663,611.
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Worden, John R.; and Kratzke, Albert W., 3,654,809.
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Hoffmann, Horst; Krauch, Carl Heinrich; Otto, Hans-Werner; and Volkert, Otto, 3,674,494.
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Krause, Bruno. Apparatus for potting of plants. 3,657,839, 4-25-72, Cl. 47-1.
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Krause, Erich, to Universal Maschinenfabrik Dr. Rudolf Schieber KG. Knitting machine with narrowing and widening mechanism. 3,646,783, 3-7-72, Cl. 66-95.
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Krause, Gerhard, to Fernseh G.m.b.H. Comparing television signals with varied threshold and producing binary signals. 3,637,927, 1-25-72, Cl. 178-6.
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Krause, Hans-Juergen; and Rindsfuesser, Johannes, to National Cash Register Company, The. Tens transfer mechanism. 3,682,379, 8-8-72, Cl. 235-137.00a.
Krause, Herbert K. Self-unloading vehicle. 3,682,333, 8-8-72, Cl. 214-82.000.
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Hrinko, Peter, Jr.; Krause, Irving; and Latinesics, Nandor K., 3,693,561.
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Weinberg, Murray; and Krause, Irving A., 3,683,279.
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Krause, John Thorvald; and Kurkjian, Charles Robert, to Bell Telephone Laboratories, Incorporated. Acousto-optic and ultrasonic devices using germanium containing chalcogenide glasses. 3,655,255, 4-11-72, Cl. 350-1.
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Krause, Konrad A.; and Moradzadeh, Yaqub, to International Business Machines Corporation. Apparatus for transferring developed image. 3,691,993, 9-19-72, Cl. 118-637.000.
Krause, Peter L., to Burroughs Corporation. Correction of asynchronous timing utilizing a phase control loop. 3,653,009, 3-28-72, Cl. 340-174.1.
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Krause, Ronald O.; and Ayala, Kenneth J., to Nutrico, Inc. Signal converter and amplifier for metering additive flow. 3,687,151, 8-29-72, Cl. 137-101.210.
Krause, Ronald O.; and Bayne, Peter D., to Nutrico, Inc. Continuous control for introducing material into a flowing liquid. 3,705,597, 12-12-72, Cl. 137-101.210.
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Krauskopf, William B. Elastomeric interlock to prevent vertical disengagement of railway car couplers. 3,675,787, 7-11-72, Cl. 213-153.000.
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Langhoff, Boris, 3,703,056.
Krauss, Heinz-Walter: *See—*
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Krauss, Rudolf; and Walch, Eugen, to Bosch, Robert, G.m.b.H. Fuel injection valve. 3,690,566, 9-12-72, Cl. 239-453.000.
Krauss, Wallace J. Rope brake. 3,682,276, 8-8-72, Cl. 188-65.300.
Krauss, Walter Francis Henry; and Westmore, Norman Ernest; deceased (by Westmore, Anna Mira; executor). Apparatus and method for aligning belt conveyor components such as idler frames and pulleys. 3,664,489, 5-23-72, Cl. 198-192.
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Gopert, Max, 3,700,994.
Herbst, Richard, 3,697,212.
Keuerleber, Rudi; and Pahl, Fritz-Wilhelm, 3,706,515.
Von Gronow, Rudiger Elsner, 3,638,854.
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Krauth & Benninghofen, Inc.: *See—*
Diesbach, Frederick B., 3,637,172.
Krauth, Adolf W., to Compres N.V. Sling type exercising device. 3,633,908, 1-11-72, Cl. 272-83.
Krauth, Axel; and Teiwes, Hans-Juergen, to NUKEM, Nuklear-Chemie und Metallurgie Gesellschaft mit beschränkter Haftung. Apparatus for vapor free melting of uranium carbide or plutonium carbide. 3,668,292, 6-6-72, Cl. 13-23.000.
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Kravitz, Harley A., to Acar Industries, Inc. Bicycle wheel carrier for automobile mounting. 3,659,762, 5-2-72, Cl. 224-42.03.
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Kesilman, Sol; Kravitz, Milton; and Penn, Hyman B., 3,675,598.
Kravitz, Stanley: *See—*
Estes, John H.; Kravitz, Stanley; and Suggitt, Robert M., 3,702,874.
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Gregg, David W.; Kidder, Ray E.; and Krawetz, Barton, 3,673,513.
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Lenk, Erich; and Krawszik, Theodor, 3,655,314.
Kraxno, Maxwell R.: *See—*
Breneman, Andrew J.; and Kraxno, Maxwell R., 3,662,171.
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- Krebs, Jimmie M., to Chicago Show Printing Company. Display assembly and element therefor. 3,674,156, 7-4-72, Cl. 211-4.000.
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Wiggins, Glenn C.; Kreh, Marvin J.; Davis, Robert S.; and
Stevenson, Fred, 3,707,590.
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Feighner, George C.; Kerfoot, Oliver C.; Krehbiel, Delmar D.;
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Klein, Robert T.; and Kreiselman, Robert L., 3,696,399.
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devices for rolling mills. 3,646,686, 3-7-72, Cl. 33-182.
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pipeline. 3,664,357, 5-23-72, Cl. 137-2.
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Ricciello, Michael; and Kreitmayer, Harry A., 3,660,199.
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Ross, Sherwood, B.; and Kreizel, William J., 3,656,531.
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Havranek, Milan; Zouhar, Drahomir; Dusik, Josef; Kucera,
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Ellis, Alan F.; Kresge, Alfred N.; and Seckircher, Richard,
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Burkard, Herbert G.; Miller, Harold N.; and Kresge, Edward N.,
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Camp, Thomas R., 3,660,284.
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Caspary, Rudolf; and Kretschmer, Peter, 3,672,212.
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Rosenkranz, Hans-Jürgen; Rudolph, Hans; and Kreuder, Hans-
Joachim, 3,692,560.
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Heller, Karl-Heinz; Kreuder, Manfred; and Merz, Karl,
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 Kribbe, Kurt Willi Harris, 3,655,334.
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 Kribbe, Kurt Willi Harris, 3,655,334.
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 Kribbe, Kurt Willi Harris, 3,655,334.
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 Krick, David M.; Koltz, Lawrence D.; and Williams, Warren C., to Wisconsin Centrifugal, Inc. Vacuum casting apparatus. 3,670,802, 6-20-72, Cl. 164-258.
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 Krieg, Herman C., Jr.: *See*—
 Burk, Maksymilian; Bowes, William M.; and Krieg, Herman C., Jr., 3,652,208.
 Kriege, David J.: *See*—
 Staker, Donald D.; Plantholt, Richard H.; and Kriege, David J., 3,649,657.
 Kriege, Owen H.: *See*—
 Agnew, Frank R.; Byrne, Francis P.; Kaczmarek, Thomas D.; Kriege, Owen H.; Gainer, Gordon C.; and Luck, Russell M., 3,689,224.
 Krieger, Bernhard: *See*—
 Hempel, Gerhard; Wieske, Reinhold; Krieger, Bernhard; and Kaspar, Emanuel, 3,700,660.
 Krieger, Earl: *See*—
 Keiser, John E.; and Krieger, Earl, 3,647,509.
 Krieger, Harold: *See*—
 Bonafiglia, Joseph C.; and Krieger, Harold, 3,702,877.
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 Krieger, Wilhelm: *See*—
 Buchner, Anton; Lang, Hans; Lenz, Johann; Unterstenhoefer, Leo; and Krieger, Wilhelm, 3,661,812.
 Kriegl, Rudolph John: *See*—
 Colton, Douglas Roy; and Kriegl, Rudolph John, 3,692,571.
 Kriellaars, Johannes C.: *See*—
 Tarry, Robert James; Kriellaars, Johannes C.; and Lord, Ronald D., 3,681,685.
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 O'Neill, Charles T.; Krigbaum, Ronald S.; and Nussbaum, Ralph W., 3,636,141.

Kriger, Ronald J., to International Business Machines Corporation. Polarity hold latch with common data input-output terminal. 3,679,915, 7-25-72, Cl. 307-289.000.
 Kriisa, Paul: *See*—
 Halling, Roy Walker Lee; and Kriisa, Paul, 3,672,317.
 Krikorian, Albert P., to National Bank Book Company, Inc. Hanger file device. 3,684,340, 8-15-72, Cl. 312-183.000.
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 Nekrasov, Nikolai Nikolaevich; Blinichikov, Alexandr Lvovich; Kazansky, Vasily Leonidovich; Besedin, Alexandr Fedorovich; Krikunenko, Anatoly Filipovich; Makarov, Egor Max-
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 Kril, Russell S., to Texas Instruments, Incorporated. Memory system. 3,689,891, 9-5-72, Cl. 340-172.500.
 Krimm, Heinrich: *See*—
 Vernaleken, Hugo; Malamet, Georg; Bottenbruch, Ludwig; Krimm, Heinrich; and Schnell, Hermann, 3,687,895.
 Weirauch, Kurt; Krimm, Heinrich; Lenz, Gunther; and Schnell, Hermann, 3,657,198.
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 Gehrken, Hubert; Helms, Gerd; Keunecke, Gerhard; and Krimphove, Herbert, 3,650,906.
 Gehrken, Hubert; Helms, Gerd; Keunecke, Gerhard; and Krimphove, Herbert, 3,655,521.
 Krings, Olof; and Yngve, Stig G. J., to AB Gitson-System. Copying apparatus. 3,685,904, 8-22-72, Cl. 355-74.000.
 Krings, Josef. Shoring apparatus. 3,668,874, 6-13-72, Cl. 61-41.00a.
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 Krinke, Harlan L., to Minnesota Mining and Manufacturing Com-pany. Thermal copying machine. 3,636,350, 1-18-72, Cl. 250-65.
 Kriofsky, Thomas A.: *See*—
 Kaplan, Leon M.; and Kriofsky, Thomas A., 3,689,885.
 Kripak, Leonid: *See*—
 Glass, Marvin I.; and Kripak, Leonid, 3,690,021.
 Krippelz, Jacob. Outtrigger sled. 3,632,125, 1-4-72, Cl. 280-16.
 Krisak, Edward J.; and Strozak, Stephen, to FMC Corporation. Shaft seal with split sleeve. 3,661,399, 5-9-72, Cl. 277-94.
 Kriser Corporation: *See*—
 Shatz, Abram; and Eisenberg, Ben, 3,640,620.
 Krismmer, Josef, Jr. Tunneling shield. 3,657,897, 4-25-72, Cl. 61-85.
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 Kristen, Reiner: *See*—
 Kappius, Friedrich; Kristen, Reiner; Ott, Hanns; and Reinholtz, Heinz, 3,691,414.
 Kristian Krog Sorensen: *See*—
 Bartens, Carl Emil, 3,676,618.
 Kristiansen, Odd: *See*—
 Gubler, Kurt; and Kristiansen, Odd, 3,635,987.

Kristiansen, Svend Helge, to Nordisk Ventilator Co. A/S. Double im-peller wheel. 3,635,589, 1-18-72, Cl. 416-193.
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 Vockenhuber, Karl; Pammer, Gottfried; Krob, Erwin; Forch, Friedrich; Revy-Belvard, Peter; and Valoh, Alfons, 3,656,703.
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 Cranskens, Georg; Kroker, Gunther; and Palm, Richard, 3,698,804.
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 Keulen, Gerben Jan; and Kroes, Johannes Petrus, 3,664,658.
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 Krogzem, Ivar Arnoldovich: *See*—
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 Krohn, Richard H.: *See*—
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 Cremer, John M.; and Krohne, Norman A., 3,668,683.
 Kroitor, Roman: *See*—
 Koenig, Wolf M., 3,694,062.
 Krokhn, Nester Ivanovich: *See*—

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- Fruhauf, Waldemar, 3,686,577.
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- Dullinger, Karl, 3,707,417.
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- Stauber, Kurt, 3,658,630.
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- Heinzelmann, Walter; Flach, Karl-Egon; Vob, Alfred; and Kroschel, Heinz, 3,682,727.
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- Withem, Donald D., 3,677,255.
- Krostewitz, Wolfgang, to American Standard, Inc. Method for measuring rate of fluid absorption of plaster molds. 3,665,755, 5-30-72, Cl. 73-73.000.
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- Castellucci, Nicholas T.; and Krouskop, Ned C., 3,661,497.
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- Kroy, Walter: See—
- Bogenberger, Richard; Busch, Heinz F. K.; Kroy, Walter; and Mehnert, Walter E., 3,702,378.
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- Mrugala, Theodore A.; and Kruck, Henry, 3,696,487.
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 Kruppa, Robert W.; Weber, Edward V.; and Woodard, Ollie C., to International Business Machines Corporation. Method and apparatus for controlling an electron beam. 3,644,700, 2-22-72, Cl. 219-121.
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 Baumann, Kurt, 3,685,149.
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 Kruschwitz, Werner, to Draftex, GmbH. Protective scaling strip. 3,638,359, 2-1-72, Cl. 49-490.
 Kruse, Clemens A., Jr. Cylindrical surface finishing tool. 3,656,333, 4-18-72, Cl. 72-122.
 Kruse, Frederick W., Jr. Fuel reservoir with filling signal. 3,684,127, 8-15-72, Cl. 220-86.00r.
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 Kruse, Werner, to Daimler-Benz Aktiengesellschaft. Measurement-sensing device for determining a rotational speed or rotational speed change, preferably of vehicle wheels. 3,683,219, 8-8-72, Cl. 310-168.000.
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 Shelton, James D., 3,691,901.
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 Kruyt, Willem: See—
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- Hollingshead, Robert A.; Kuchler, Abraham; and Pryor, Clyde Robert, 3,640,141.
- Kuchler, Heinz: *See—*
- Wincierz, Peter; Ruhle, Manfred; Kuchler, Heinz; Borgstedt, Hans Ulrich; and Bohm, Horst Otto, 3,695,866.
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- Yatsushiro, Kenji; and Kuchuris, George F., 3,639,790.
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- Kuczowski, Frank A.: *See—*
- Laakaniemi, Richard N.; Kuczowski, Frank A.; Atkinson, Louis D.; Kuhar, Paul W.; Lechner, Thomas J., Jr.; and Weber, Urban A., 3,705,595.
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- Kishino, Shigeo; Yamada, Yasuo; Kudamatsu, Akio; Sumi, Shozo; and Shiokawa, Kozo, 3,683,053.
- Kishino, Shigeo; Shiokawa, Kozo; Kudamatsu, Akio; and Yamada, Yasuo, 3,689,603.
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- Kamal, Marwan R.; and Kuder, Robert C., 3,644,465.
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- Ezhov, Leonid Antipovich; Kudevitsky, Yankel Veniaminovich; and Belyaeva, Ljudmila Pavlovna, 3,678,554.
- Kudingo, Kenneth F.: *See—*
- Grazier, Robert L.; and Kudingo, Kenneth F., 3,670,512.
- Kudinov, Evgeny Ivanovich: *See—*
- Edigarian, Zorab Parnakovich; Kudinov, Evgeny Ivanovich; and Sukhov, Vladimir Evgenievich, 3,693,730.
- Kudinov, Gennady Alexandrovich: *See—*
- Andoniev, Sergei Mikhailovich; Kutsykovich, Dorina Borisovna; Gerber, Leonid Moiseevich; Kudinov, Gennady Alexandrovich; Kasyanov, Grigory Ivanovich; Nissenbaum, Tamara Izovna; Raikovskiy, Jury Bortsovich; Somchenko, Mikhail Semenovich; and Filipiev, Oleg Vladimirovich, 3,692,103.
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- Demchuk, Alexandr Fedorovich; Deribas, Andrei Andreevich; Kudinov, Vladimir Mikhailovich; Matveenkov, Felix Iovich; and Simonov, Valery Alexandrovich, 3,650,014.
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- Drexler, Karl F.; and Kudlacik, Henry W., 3,702,965.
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- Kudo, Ken-Ichi: *See—*
- Shimomura, Takatoshi; and Kudo, Ken-Ichi, 3,652,724.
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- Maeda, Teizo; and Kudo, Koji, 3,632,429.
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- Tanegashima, Kenichiro; Kobayashi, Makoto; and Kudo, Shinichiro, 3,679,864.
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- Hata, Toju; Kamada, Hideo; Wakaki, Shigetoshi; Kudo, Shiro; Tomioka, Keitaro; Mirumo, Hirofuto; Kato, Eturo; and Shimizu, Motoaki, 3,660,578.
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- Shoji, Yoshio; Kobayashi, Toshiaki; and Kudo, Tadao, 3,661,682.
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- Naito, Fumio; Kudo, Toshiyuki; and Kubosaki, Masanobu, 3,700,596.
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- Takamizawa, Minoru; Hayashi, Takayoshi; Uzawa, Kazumoto; Takita, Masatoshi; and Kudo, Yoshiaki, 3,642,596.
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- Kuehl, Earl J.; and Kuehl, LaMay R., 3,698,517.
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- Burns, Joseph P.; Feltzin, Joseph; and Kuehn, Erich, 3,639,294.

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- Miran, George V.; and Kuehne, Gerhard B., 3,706,002.
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- Perdue, Richard R.; Hoagland, Le Roy F.; and Kuehne, Richard O., 3,694,991.
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- Murphy, John C.; and Kues, Henry A., Jr., 3,657,372.
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Zegers, Leo Eduard; Kuilman, Jan; and Snijders, Wilfred Andre Maria, 3,666,889.

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Turner, Lyman H.; and Kukucka, William P., 3,682,328.

Turner, Lyman H.; Kukucka, William P.; and Summers, James E., 3,685,712.

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Ferdinand, Irwin J.; Kulbersh, Irwin R.; and Cassiere, Gerald D., 3,691,966.

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Kulicke, Frederick W., Jr.; and Lepone, John J., 3,661,316.

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Angelucci, Thomas L.; and Kulicke, Frederick W., Jr., 3,696,229.

Field, Edwin C.; Kulicke, Frederick W., Jr.; and Masso, Richard W., 3,643,321.

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Kolomeitsev, Adolf Petrovich; and Kulikov, Vladimir Igorevich, 3,664,409.

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Kicks, John C.; and Louth, Howard P., 3,706,953.

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Drapkin, William B., 3,697,935.

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Hilgers, Giovanni; Hitzemann, Gerhard; and Kulling, Achim, 3,694,168.

Kullman, William G., to General Electric Company. Hinged surface heating unit system. 3,700,856, 10-24-72, Cl. 219-451.000.

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Kullok, Saul: *See—*

Kullok, Samuel, 3,651,801.

Kully, Walter: *See—*

Jarvis, Richard L.; and Kully, Walter, 3,669,801.

Jarvis, Richard L.; and Kully, Walter, 3,669,803.

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Kulson, Walter A. Adjustable height and variable force clamp. 3,697,060, 10-10-72, Cl. 269-228.000.

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Tanaka, Eihachiro; Onodera, Yutaka; Fukuda, Takeji; Yamashita, Tsutomu; and Kuma, Shoji, 3,652,967.

Kumada, Akio: *See—*

Kojima, Hiroomi; Nomura, Sadao; and Kumada, Akio, 3,667,828.

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Kumagai, Denroku; and Kurahashi, Yutaka, to Nippon Telegraph and Telephone Public Corporation. Time division multiplex transmission system. 3,663,761, 5-16-72, Cl. 179-15.

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Kimura, Takashi; Kumagai, Kazuo; and Kanda, Kaoru, 3,665,432.

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Kumahara, Tadashi: *See—*

Kinbara, Setsuro; and Kumahara, Tadashi, 3,676,783.

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Kado, Masaru; Kimura, Ichiro; and Sugiyama, Hironari, 3,671,216.

Kumaki, Shigeji: *See—*

Shibata, Hiroshi; Imai, Teruo; and Kumaki, Shigeji, 3,663,385.

Kumakura, Morio: *See—*

Togashi, Tetsuo; and Kumakura, Morio, 3,633,564.

Kumakura, Seiji: *See—*

Sato, Yasunobu; Kobayashi, Yutaka; Takagi, Hiromu; Kumakura, Seiji; Nakayama, Koichi; and Oshima, Takeshi, 3,663,570.

Kumamoto, Riyouzi: *See—*

Ogata, Nobutaka; Kumamoto, Riyouzi; and Asada, Shuzi, 3,703,043.

Kumasaka, Masashi: *See—*

Yoshikawa, Shinsuke; Yamamoto, Akira; and Kumasaka, Masashi, 3,662,053.

Kumasaka, Noriyuki: *See—*

Nishida, Hideko; Yamaguchi, Kunihiro; Kumasaka, Noriyuki; Sugita, Yutaka; and Fujiwara, Hideo, 3,673,581.

Kumashiro, Izumi: *See—*

Yamada, Yoshitaka; Sakurai, Moritaro; and Kumashiro, Izumi, 3,671,649.

Yamazaki, Akihiro; Furukawa, Teruo; and Kumashiro, Izumi, 3,678,030.

Kume, Toyohiko: *See—*

Hoffmann, Hellmut; Scheinpflug, Hans; Kume, Toyohiko; and Yasui, Kazuomi, 3,686,369.

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Kume, Tsuneo: *See—*

Hoft, Richard G.; and Kume, Tsuneo, 3,694,730.

Kumia, Shoji: *See—*

Tanaka, Eihachiro; Onodera, Yutaka; Fukuda, Takeji; Yamashita, Tsutomu; Saito, Tetsuo; and Kumia, Shoji, 3,665,595.

Kumiai Chemical Industry Co., Ltd.: *See—*

Kimura, Ichiro; Sugiyama, Hironari; and Kado, Masaru, 3,682,616.

Maeda, Taizo, 3,632,332.

Nishimura, Tatsumi; Shinohara, Hiroshi; Takita, Kiyoshi; and Kado, Masaru, 3,646,043.

Nishimura, Tatsumi; Inoue, Tadahiko; Tsuboi, Takeo; and Kado, Masaru, 3,671,640.

Nishimura, Tatsumi; Okuda, Itsuki; and Kado, Masaru, 3,686,191.

Nishimura, Tatsumi; Nagasawa, Sumio; Shinohara, Hiroshi; and Kado, Masaru, 3,692,902.

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Kreibich, Roland E.; Freeman, Harlan G.; Baxter, Gene F.; and Kumli, Karl F., 3,634,276.

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Koppe, Herbert; Kummer, Werner; Stahle, Helmut; Zeile, Karl; and Traunacker, Werner, 3,644,469.

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Kummerlin, Walter; and Kummerlin, Nikolaus Adalbert, 3,692,143.

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Kummernehr, Hans: *See—*

Mechel, Fridolin; and Kummernehr, Hans, 3,679,443.

Kumon, Osamu, to Sumitomo Electric Industries, Ltd. Piezoelectric ceramic transformer with specific width to length ratios. 3,659,127, 4-25-72, Cl. 310-9.5.

Kump, Wilhelm: *See—*

Bickel, Hans; and Kump, Wilhelm, 3,632,492.

Bickel, Hans; Fechtig, Bruno; and Kump, Wilhelm, 3,644,337.

Kumpolt, Karl. Portable dock levellers. 3,639,935, 2-8-72, Cl. 14-72.

Kumpula, John W.: *See—*

Huget, Eugene F.; Brauer, Gerhard M.; Kumpula, John W.; and Civjan, Simon, 3,675,327.

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Bivans, Elbert L.; and Kund, August, 3,665,674.

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Kunde, Joachim: *See—*

Becht, Guenter; Kunde, Joachim; La France, Norman; and Mueller, Karl Robert, 3,707,344.

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Kunert, Max: *See—*

Franz, Hermann; and Kunert, Max, 3,661,766.

Kung, Frederick E., to PPG Industries, Inc. Hydrofluorination of acetylenic unsaturates to produce olefin fluorides. 3,646,230, 2-29-72, Cl. 260-653.4.

Kuniaki, Hakamada: *See—*

Kubo, Keishi; Sakai, Kiyoshi; Sato, Takashi; and Kuniaki, Hakamada, 3,689,302.

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Kunicki, Adam: *See—*

Gawronski, Henryk; Kunicki, Adam; and Lewandowski, Marcell, 3,689,831.

Kunihiro, Haruo: *See—*

Ozaki, Toshiaki; and Kunihiro, Haruo, 3,649,658.

- Sagawa, Seiji; Kunihiro, Haruo; Kimura, Osamu; and Inoue, Masatoshi, 3,681,371.
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- Kunihiro, Nobuko: *See—*
- Yamada, Shizuo; Ono, Isao; Abe, Hiroyuki; Kunihiro, Nobuko; and Tago, Kazuo, 3,686,350.
- Kunii, Kazushi: *See—*
- Takamura, Akira; Kunii, Kazushi; Seharada, Saburo; and Nakatani, Hiroshi, 3,669,222.
- Kunii, Tokio: *See—*
- Endo, Hiroshi; Tokoyoda, Kazuo; Fujiyu, Takemi; Kayasuga, Yasuaki; and Kunii, Tokio, 3,690,911.
- Kunik, I. Jordan: *See—*
- Barzely, Avner, 3,670,254.
- Hutchinson, Seymour M., 3,634,938.
- Kunimitsu, Toshio: *See—*
- Kosugi, Takeshi; and Kunimitsu, Toshio, 3,664,358.
- Kunimune, Kouichi: *See—*
- Shirai, Sio; Kunimune, Kouichi; and Muraki, Masaaki, 3,642,951.
- Kunio, Nishinomiya-Shi: *See—*
- Tsuchiya, Hiroshi; Kunio, Nishinomiya-Shi; Kimura, Akio; Kawano, Suminori; Fujimoto, Keimei; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Tanaka, Katsutoshi; Ooishi, Tadashi; and Takeda, Hisami, 3,670,057.
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- Hasegawa, Kohichi; and Kunishima, Norihiko, 3,673,580.
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- Aso, Chuji; Kunitake, Toyoki; and Uchio, Haku, 3,642,757.
- Kuntz, Friedrich Wilhelm: *See—*
- Credner, Hans-Heinrich; Glockner, Hans; Muller, Fritz; and Kuntz, Friedrich Wilhelm, 3,658,537.
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- Young, James W.; Cason, George A.; and Kunkel, Ernest O., 3,659,661.
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- Ospelt, Gustav; and Kunkel, Wolfgang, 3,672,337.
- Kunkle, Albert C.: *See—*
- Iannicelli, Joseph; Kunkle, Albert C.; and Maynard, Robert N., 3,661,515.
- Kunkle, George E., Jr. Apparatus for producing wall panels. 3,641,645, 2-15-72, Cl. 29-200.
- Kunkle, Gerald E., to PPG Industries, Inc. Glass melting furnace. 3,658,505, 4-25-72, Cl. 65-337.
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- Kunkle, John Philip; and Kunkle, James Raymond, 3,697,927.
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- Beck, Maurice E., 3,651,722.
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- Kuno, Mitsuzo: *See—*
- Nakao, Yoshio; Kuno, Mitsuzo; and Ohmura, Einosuke, 3,634,193.
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- Kunstadt, George H. Data head actuation apparatus and circuit. 3,648,263, 3-7-72, Cl. 340-174.1.
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- Geerdes, Dirk J.; and Van Vesselme, Cornelis J., 3,680,362.
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- Jirka, Karl; Gutthuber, Johann; and Straubing, Irlbach B., 3,705,950.
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- Basche, Malcolm; Fanti, Roy; Galasso, Francis S.; Kuntz, Urban E.; and Schile, Richard D., 3,679,475.
- Kuntzleman, Harry C.: *See—*
- Dailey, Jack R.; and Kuntzleman, Harry C., 3,706,977.
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- Finch, Charles R.; and Kuntzsch, Jerold E., 3,660,535.
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- Kunz, Heinrich: *See—*
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- von der Eltz, Hans-Ulrich; Birke, Walter; Kunze, Wolfgang; Taunus, Hofheim; and Schon, Franz, 3,679,349.
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- Gilch, Heinrich; Darsow, Gerhard; Bottenbruch, Ludwig; Lorenz, Gunter; Kunzel, Hans Egon; Nischk, Gunther; and Schnell, Hermann, 3,642,882.
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- Ortel, Gerhard, 3,686,057.
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- Augustin, Gustav, 3,692,317.
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- Kasugai, Tsuneo; Minagawa, Nobuhiko; and Kurabayashi, Hiroyuki, 3,705,808.
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- Hishida, Yukio; Kato, Takami; and Kurachi, Hisao, 3,638,775.
- Hishida, Yukio; Kato, Takami; Hirata, Takashi; and Kurachi, Hisao, 3,642,110.
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- Kawakubo, Kazuo; and Kurahashi, Akira, 3,689,145.
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- Kumagai, Denroku; and Kurahashi, Yutaka, 3,663,761.
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- Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kuramada, Tomoyuki; Watanabe, Ichiro; and Ohta, Noriyuki, 3,640,928.
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- Masaki, Mitsuo; Fukui, Kiyoshi; Kuramasu, Tetsuro; and Ueda, Masahiro, 3,700,656.
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- Kuramoto, Kaoru; Maejima, Nobuo; Miyakubo, Kiichiro; and Uzuki, Isao, 3,657,396.
- Kuramoto, Yoshio: *See—*
- Tenkumo, Shohci; and Kuramoto, Yoshio, 3,693,523.
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- Fukushima, Osamu; Saito, Yoshitami; and Enomoto, Yuya, 3,654,066.
- Harada, Kazuto, 3,665,157.
- Hirata, Kazuaki, 3,652,371.
- Makimoto, Tsutomu, 3,676,416.
- Matsubayashi, Kanji; and Segawa, Hiroyuki, 3,679,633.
- Matsushita, Hidekatsu; and Ouba, Kenichi, 3,695,801.
- Miki, Masakazu; Takeuchi, Yasuhiro; and Kuwahara, Hisaharu, 3,642,518.
- Mizuno, Masao; and Igi, Keishiro, 3,700,642.
- Nagoshi, Kazuo; and Hayanami, Hiroshi, 3,645,668.
- Ohfuji, Yoshio; and Eguchi, Tamotsu, 3,655,632.
- Ohfuji, Yoshio, 3,686,149.
- Ohnishi, Shigekazu; Nishishita, Masaharu; and Takimoto, Hisateru, 3,703,403.
- Okazaki, Masahide; and Endo, Tutosi, 3,688,355.
- Segawa, Hiroyuki; Kurosaki, Shozi; and Kawaguchi, Takuo, 3,657,184.
- Sogi, Hidenobu, 3,701,701.
- Takakura, Koichi, 3,652,465.
- Tanomura, Masahisa; and Itoi, Kazuo, 3,664,979.
- Tsutsumi, Mitsutoshi, 3,655,363.
- Kurasawa, Kazuo: *See—*
- Akuta, Tomohiko; Honsyo, Yoshi; Hashirizaki, Sinya; Hiruma, Teruo; and Kurasawa, Kazuo, 3,678,192.
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- Ashikaga, Tadao; and Kousaka, Susumu, 3,660,556.
- Ashikaga, Tadao; and Higashimori, Shosuke, 3,679,544.

Fukushima, Osamu; Saito, Yoshitami; and Enomoto, Yuya, 3,657,034.
Inoue, Takeshi, 3,671,620.
Katsura, Kanji; and Igi, Keishiro, 3,639,352.
Kawaguchi, Takuo; and Matsubayashi, Kanji, 3,635,871.
Nishida, Takashi; and Ito, Kazuo, 3,661,883.
Okamura, Takayuki, 3,660,554.
Okaya, Takuji; and Miyazaki, Hirotsu, 3,647,756.
Tanabe, Kenichi; Ito, Kazuo; and Segawa, Hirozo, 3,651,017.
Kurashina, Isao: *See—*
Fujimoto, Yukiya; and Kurashina, Isao, 3,645,709.
Kurashina, Kouzo: *See—*
Arimura, Ichiro; and Kurashina, Kouzo, 3,696,219.
Kurata, Etsuo: *See—*
Nakagawa, Junichiro; and Kurata, Etsuo, 3,688,347.
Kurata, George Y., to Typograph Corporation. Method of encoding graphical data. 3,646,571, 2-29-72, Cl. 444-1.
Kurata, Kazuhiro: *See—*
Kasano, Hiroyuki; Kurata, Kazuhiro; Ogirima, Masahiko; Kawamura, Masao; and Kusumoto, Hazime, 3,694,759.
Kurata, Naoki: *See—*
Oda, Kenzo; Okuda, Yukio; Kurata, Naoki; Koshida, Kazuo; and Tsuchino, Masatoshi, 3,660,504.
Sawano, Toshimi; Koike, Hiroshi; Kurata, Naoki; and Okuda, Yukio, 3,660,471.
Kurata, Satoshi: *See—*
Sugiyama, Takashi; Kurata, Satoshi; and Yamaguchi, Keiki, 3,636,458.
Sugiyama, Takashi; Kurata, Satoshi; and Nakane, Hisao, 3,652,930.
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Kuratie, Hans Rudolf: *See—*
Reist, Walter; and Kuratie, Hans Rudolf, 3,690,645.
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Kurauchi, Noritaka: *See—*
Nakahara, Tsuneo; Kurauchi, Noritaka; and Kitani, Hiroshi, 3,648,172.
Nakahara, Tsuneo; Kurauchi, Noritaka; Kitani, Hiroshi; and Takemura, Kenji, 3,659,094.
Kurauchi, Noritaka; Fujimoto, Tokio; Yoshida, Kenichi; Ui, Masamitsu; Nagata, Zenji; and Kouno, Hirokazu, to Sumitomo Electric Industries, Ltd. and Tokai Rubber Industries, Ltd. Belt fissure detection device. 3,636,436, 1-18-72, Cl. 324-34.
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Kurayoshi, Otharu: *See—*
Ohashi, Kiyoshi; Ohkuni, Morihiko; and Kurayoshi, Otharu, 3,661,723.
Kurbi & Niggeloh: *See—*
Meinunger, Helmut, 3,680,455.
Kure, Georges, to Institut Scientifique et Technique des Peches. Device for electric sea-fishing. 3,693,276, 9-26-72, Cl. 43-6,500.
Kurczyk, Heinz-Georg: *See—*
Wuhrer, Josef; Kurczyk, Heinz-Georg; and Ottenheim, Adrian, 3,652,207.
Kurebayashi, Hidetoshi: *See—*
Nakahara, Shojiro; and Kurebayashi, Hidetoshi, 3,670,267.
Kurebayashi, Tokuhito: *See—*
Oishi, Kazuo; Kurebayashi, Tokuhito; Ando, Noriyoshi; Yamamoto, Noboru; and Yoshida, Hiroshi, 3,660,689.
Oishi, Kazuo; Kurebayashi, Tokuhito; Ando, Noriyoshi; Yamamoto, Noboru; and Yoshida, Hiroshi, 3,677,253.
Kurechi, Taichi, to Fuji Photo Film Co., Ltd. Cinematograph film magazine. 3,700,316, 10-24-72, Cl. 352-78,00c.
Kureha Kagaku Kogyo Kabushiki Kaisha: *See—*
Amagi, Yasuo; Ohya, Masaki; Shiiki, Zenya; and Yusa, Haruhiko, 3,671,610.
Aoki, Katsumichi; Uchida, Elizaburo; Shinoda, Kiichi; and Shida, Takafumi, 3,663,704.
Arai, Tadashi; Asano, Kiro; and Yamada, Jun, 3,702,054.
Araki, Tadashi; Takita, Hitoshi; and Asano, Kiro, 3,666,417.
Asahina, Mitsuo, 3,691,264.
Enomoto, Satoru; Wada, Hisayuki; Fujioka, Mikio; and Koguro, Masao, 3,707,387.

Gomi, Shinpei; Takahashi, Masaaki; Ishiguro, Tadashi; Okagami, Akio; Uemoto, Kunihiko; and Kuribayashi, Hiroshi, 3,689,401.
Igarashi, Yuriko; and Kakutani, Haruko, 3,660,736.
Inoue, Kiyoshi; Ishikawa, Tetsuo; and Okada, Shingo, 3,703,796.
Ishii, Hajime; Bannai, Nobuo; and Nishita, Sadao, 3,707,592.
Kaneko, Akira; Ogino, Tadashi; and Hata, Yoshiyuki, 3,635,856.
Kusuno, Hideaki; Uchida, Miyoji; Segawa, Masahiro; and Kawakami, Yukichika, 3,642,684.
Munekata, Takashi; and Uchida, Eizaburo, 3,669,998.
Nishikawa, Hideo; Kawaguchi, Akihiro; Washimi, Koichi; and Kambayashi, Masaaki, 3,631,920.
Okuda, Kensuke; Yoshida, Tadaaki; and Sugawara, Katsuyuki, 3,682,595.
Okuda, Kensuke; Yoshida, Tadaaki; and Sugawara, Katsuyuki, 3,694,862.
Onozuka, Mitsuo; and Iida, Kinji, 3,661,958.
Otake, Naokichi; Yamanobe, Yutaka; Siina, Katumi; and Usuba, Kunikatsu, 3,644,862.
Segawa, Masahiro; and Kawakami, Yukichika, 3,701,749.
Seki, Shigeru; and Sato, Kouji, 3,635,809.
Seki, Shigeru; and Sanada, Hisao, 3,644,319.
Shibata, Hiroshi; and Morita, Tomijiro, 3,649,181.
Shibata, Hiroshi; Morita, Tomijiro; and Nakano, Satoshi, 3,653,819.
Shibata, Hiroshi; Imai, Teruo; and Kumaki, Shigeji, 3,663,385.
Shimoda, Kiyonori; Watanabe, Tadayoshi; and Mizusawa, Shigeru, 3,697,443.
Suzuki, Shigeyuki; Kaneda, Isamu; Takahashi, Masaaki; and Nagai, Hiroshi, 3,640,969.
Takahashi, Masaaki; and Mayumi, Osamu, 3,663,428.
Tanaka, Takashi; and Yusa, Haruhiko, 3,652,483.
Tanaka, Takashi; and Yusa, Haruhiko, 3,657,390.
Toyoda, Yasushi; Kido, Kunizo; and Kashio, Hidetora, 3,658,778.
Umey, Kaoru; Tanaka, Shunji; and Gomi, Shinpei, 3,663,248.
Umey, Kaoru; Watanabe, Akira; and Gomi, Shinpei, 3,667,974.
Washimi, Koichi; Kanbayashi, Masaaki; Kanai, Toshio; and Fujimori, Akihiro, 3,674,679.
Yoshikawa, Shinsuke; and Sawa, Yuji, 3,653,285.
Yoshikawa, Shinsuke; Yamamoto, Akira; and Kumasaka, Masashi, 3,662,053.
Kurei, Hiroshi, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera structure for preventing improper automatic exposures. 3,643,572, 2-22-72, Cl. 95-42.
Kurei, Hiroshi, to Asahi Kogaku Kogyo Kabushiki Kaisha. Device for viewing indicia. 3,668,993, 6-13-72, Cl. 95-42,000.
Kurek, Heinz: *See—*
Haass, Guenther; and Kurek, Heinz, 3,705,361.
Kurek, Nicholas B.; Gruder, James F.; and Cameron, Dan, Jr., to Information International, Inc. Digital-to-analog converter with isolated current sources. 3,651,517, 3-21-72, Cl. 340-347.
Kurelek, John: *See—*
Denovan, John J.; and Kurelek, John, 3,675,691.
Kurer, Peter F. Denture retention method. 3,656,236, 4-18-72, Cl. 32-2.
Kuretoishi Kabushiki Kaisha: *See—*
Hirosawa, Norio, 3,689,187.
Kurger, Helmut: *See—*
Frank, Peter; Jentzsch, Dietrich; and Kurger, Helmut, 3,672,227.
Kurhajec, George A.; and Neuvar, Erwin W., to Minnesota Mining and Manufacturing Company. Iminocarbonyl derivatives. 3,655,758, 4-11-72, Cl. 260-566.
Kuribayashi, Atushi: *See—*
Suzukawa, Yuichi; Kono, Hisashi; Terai, Kenji; Kuribayashi, Atushi; and Niwa, Takazumi, 3,661,973.
Kuribayashi, Hiroshi: *See—*
Gomi, Shinpei; Takahashi, Masaaki; Ishiguro, Tadashi; Okagami, Akio; Uemoto, Kunihiko; and Kuribayashi, Hiroshi, 3,689,401.
Kuribayashi, Michio; and Mimori, Riichi, to Nippon Electric Company, Limited. Modulated carrier wave communication apparatus. 3,643,165, 2-15-72, Cl. 325-330.
Kurichh, Sham: *See—*
Davis, Dennis J.; Sudnick, Dennis J.; Juhasz, John E.; and Kurichh, Sham, 3,677,609.
Kurihara, Kazuo, to Kabushiki Kaisha Daini Seikosha. Day-date jumper spring in calendar watch. 3,673,788, 7-4-72, Cl. 58-58,000.
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Kurihara, Masakazu: *See—*
Senoo, Saburo; Kato, Toshio; Imai, Norio; and Kurihara, Masakazu, 3,642,867.
Kurihara, Masaru: *See—*
Yoda, Naoya; Kubota, Takashi; Kurihara, Masaru; Dokoshi, Noriaki; and Yoshihi, Toshiya, 3,682,860.

Kurihara, Norman H., to Dow Chemical Company, The. Substituted cinnoline compounds. 3,657,241, 4-18-72, Cl. 260-250.
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Kurihara, Shigeru: *See—*
Yokozato, Junichi; and Kurihara, Shigeru, 3,675,557.
Kurihara, Shigeru; Yamazaki, Tamotsu; Yamamoto, Hideaki; and Yokozato, Junichi, to Zenza Bronica Kogyo Kabushiki Kaisha. Film-winding mechanism in a photographic camera. 3,635,416, 1-18-72, Cl. 242-71.4.
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Kurihara, Yoshiaki: *See—*
Suzuki, Masaru; Hyodo, Masayoshi; and Kurihara, Yoshiaki, 3,662,336.
Kurihara, Yoshio: *See—*
Sawairi, Hitoshi; Kurihara, Yoshio; Takahashi, Kazuhiko; Hayakawa, Yoshihiko; and Hataya, Yukio, 3,702,968.
Kuriki, Yasunori: *See—*
Kodera, Yoshihide; Kato, Jun; Shimada, Kazuo; Suzuki, Morio; Ohse, Hidetaka; Ohshima, Satoshi; and Kuriki, Yasunori, 3,654,143.
Kurilla, John: *See—*
Boucher, Wilfred M.; Kurilla, John; and Slepp, Alice C., 3,664,335.
Kurimoto, Kazuhiko: *See—*
Koyanagi, Shunichi; Tajima, Shigenobu; Shimizu, Toshihide; and Kurimoto, Kazuhiko, 3,669,946.
Kurimoto, Masahi: *See—*
Okada, Shigetaka; Tsuyama, Naoto; Kurimoto, Masahi; and Sugimoto, Kaname, 3,703,440.
Kurimoto, Masashi: *See—*
Sugimoto, Kaname; Yoshida, Mikihiko; and Kurimoto, Masashi, 3,632,475.
Kurimoto, Mikishi; Ochiai, Yoshiki; Munekata, Keniti; and Nomura, Kenji, to Toyoda Koki Kabushiki Kaisha. Machine tool with tool change device. 3,691,655, 9-19-72, Cl. 29-568,000.
Kurinsky, Albert, to Rowe International, Inc. Merchandising machine with size-adjustable compartments. 3,684,131, 8-15-72, Cl. 221-242,000.
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Kuris, Arthur, to Ultrasonic Systems, Inc. Ultrasonic method for hair joining. 3,642,010, 2-15-72, Cl. 132-5.
Kurita, Hirohisa: *See—*
Miyasaka, Mamoru; Kurita, Hirohisa; and Furihata, Hideo, 3,678,682.
Kurita, Hirohisa, to Kabushiki Kaisha Suwa Sukosha. Construction of thin timepiece. 3,706,196, 12-19-72, Cl. 58-52,000.
Kurita Industrial Co., Ltd.: *See—*
Hiroshi, Ueki, 3,686,123.
Kurita, Jiro: *See—*
Nogami, Sumitaka; Ishigami, Masaki; and Kurita, Jiro, 3,701,816.
Kurita, Ken-Ichiro, to Kurita Machinery Manufacturing Company, Limited. Device for releasing filter cake in filter press. 3,669,273, 6-13-72, Cl. 210-225,000.
Kurita, Ken-Ichiro. Filter press with endless filter cloth. 3,690,462, 9-12-72, Cl. 210-225,000.
Kurita, Kunio: *See—*
Ishida, Shinichi; Ohshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; and Kurita, Kunio, 3,651,015.
Ishida, Shinichi; Ohshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; Kurita, Kunio; Ohki, Hayashi; Sato, Kunio; Nagamatsu, Kazuo; and Tokushige, Akira, 3,654,228.
Kurita Machinery Manufacturing Company, Limited: *See—*
Kurita, Ken-Ichiro, 3,669,273.
Kurita, Masahiro, to Kabushiki Kaisha Suwa Seikosha. Electric or electronic timepiece. 3,690,058, 9-12-72, Cl. 58-23,00r.
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Kurita, Shyoichi: *See—*
Kiyasu, Zen'iti; Kawashima, Masao; Sasaki, Shunroku; Mineshima, Yukihiko; and Kurita, Shyoichi, 3,699,567.

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Kurita, Tomio: *See—*
Miyakawa, Takashi; Kurita, Tomio; and Ichimura, Akira, 3,643,224.
Kurita Water Industries Ltd.: *See—*
Fujimoto, Hiroshi; and Fukuda, Mitsugu, 3,677,940.
Okada, Hiroo, 3,635,448.
Takahashi, Shiro; and Horiguchi, Tadao, 3,702,135.
Takebayasi, Hisatomo, 3,707,236.
Kurita, Yoshiaki: *See—*
Hayashi, Noburo; Katsumi, Mamoru; Ogata, Yuzuru; Arai, Sumio; Kurita, Yoshiaki; and Inamori, Yoshihiro, 3,639,468.
Kurita, Yoshio: *See—*
Tomota, Miyaji; Ishikawa, Yutaka; Yamasaki, Hiroo; and Kurita, Yoshio, 3,691,830.
Yamasaki, Hiroo; Kurita, Yoshio; Ishikawa, Yutaka; and Sawayama, Takehiro, 3,693,438.
Kuriu, Sadao: *See—*
Uchida, Koji; and Kuriu, Sadao, 3,697,304.
Kuriyagawa, Mamoru: *See—*
Kameoka, Akio; Nakamura, Shinichi; Makino, Shinichi; Endoh, Kenjiro; and Kuriyagawa, Mamoru, 3,668,294.
Kuriyama, Sigeru: *See—*
Kasama, Ryoji; and Kuriyama, Sigeru, 3,659,119.
Kurk, Kenneth G.; and Kilbride, Robert S., to Moorman Manufacturing Company. Method for assembling layers of packages on a pallet. 3,700,127, 10-24-72, Cl. 214-152,000.
Kurkjian, Charles Robert: *See—*
Krause, John Thorvald; and Kurkjian, Charles Robert, 3,655,255.
Kurland, Jerome J. Speed register. 3,635,397, 1-18-72, Cl. 235-78.
Kurland, Jerome J. Speed register. 3,701,471, 10-31-72, Cl. 235-78,000.
Kurmit, Norman A.: *See—*
Hartmann, Sven R.; Kurmit, Norman A.; and Abella, Isaac D., 3,638,029.
Kuroda, Akio: *See—*
Genma, Susumu; Kuroda, Akio; Kato, Toshio; and Kishi, Fusao, 3,681,225.
Kuroda, Hiroyuki: *See—*
Adica, Osamu; Naito, Kenji; Ogino, Katsuhiko; and Kuroda, Hiroyuki, 3,658,656.
Kuroda, Keizo: *See—*
Samejima, Hirotoshi; Nagano, Yuji; Ota, Shigenori; Kanzaki, Yasushi; Matsuo, Hideki; and Kuroda, Keizo, 3,658,557.
Kuroda, Koichi, 1/2 to Kabushiki Kaisha Aiden. Coloring method of aluminum anodic oxide coating film. 3,634,208, 1-11-72, Cl. 204-35.
Kuroda, Takaji, to Nippon Electric Company, Limited. Multiple port hybrid circuit. 3,678,415, 7-18-72, Cl. 333-9,000.
Kuroda, Toshimasa: *See—*
Mitsuishi, Yukio; Matsuura, Masanori; and Kuroda, Toshimasa, 3,651,198.
Kuroda, Yosinori: *See—*
Furukawa, Hideo; Kida, Yoshihiro; and Kuroda, Yosinori, 3,689,375.
Kuroe, Akio: *See—*
Kobayashi, Fukashi; Ono, Mitsuki; and Kuroe, Akio, 3,676,612.
Kuroha, Noboru, to Nippon Kogaku K.K. Coarse and fine adjustment device of the type using three concentric. 3,683,704, 8-15-72, Cl. 74-10,520.
Kuroi, Hisashi: *See—*
Nozawa, Shunichi; Kuroi, Hisashi; Hatada, Masamichi; and Fukuyama, Shunsaku, 3,701,925.
Kuroishi, Kenji: *See—*
Katagiri, Keizo; Kuroishi, Kenji; Nakamura, Kazuchika; and Hagiwara, Katsutoshi, 3,661,671.
Kurokawa, Akitsugu; and Maezawa, Shigeru, to Kabushiki Kaisha Inouye Shokai. Slurry pumping means. 3,637,328, 1-25-72, Cl. 417-246.
Kurokawa, Eisuke; Matsuo, Yoshihiro; and Sasaki, Hiromu, to Matsushita Electric Industrial Co., Ltd. Automatic electric cooker. 3,651,308, 3-21-72, Cl. 219-505.
Kurokawa, Hideo: *See—*
Yukami, Noboru; Otani, Hiroshi; and Kurokawa, Hideo, 3,665,264.
Kurokawa, Hiromichi, to Sony Corporation. Index signal generating apparatus for single tube camera. 3,678,184, 7-18-72, Cl. 178-5.4st.
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Kurokawa, Ikuji: *See—*
Matsuura, Hideo; Kurokawa, Ikuji; and Murase, Yoshihiko, 3,691,892.
Kurokawa, Junji; Arai, Fumiaki; and Usui, Noriyuki, to Ricoh Co., Ltd. Light-sensitive sheet for use in electrophotography. 3,674,474, 7-4-72, Cl. 96-1,500.

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Arai, Fumiaki; Ohta, Wasaburo; Kurokawa, Junki; Usui, Noriyuki; Shimizu, Sakae; and Tanaka, Tetsuo, 3,682,632.
- Kurokawa, Kaneyuki: *See*—
Beccone, John Peter; Kurokawa, Kaneyuki; and Schlosser, Wolfgang Otto, 3,656,069.
- Kurokawa, Kazuo; and Matsuda, Ikuro, to Kogyo Gijutsuin; a/k/a Industrial Science and Technology, Ministry of International Trade and Industry, Agency of. Setup system in analog computer. 3,652,843, 3-28-72, Cl. 235-183.
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Ishii, Yoshio; Sakai, Shizuyoshi; Fukuda, Nobuo; Shimada, Shoji; Kurokawa, Kikuro; and Suzuki, Rokuji, 3,654,156.
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Iimura, Tsutomu; Kurokawa, Susumu; and Emoto, Masayuki, 3,640,867.
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- Kuroki, Hisataka: *See*—
Moriki, Juichi; Itoh, Teruo; Shiosaki, Masaharu; Maeda, Yojin; Kuroki, Hisataka; Sumi, Kenshiro; and Shimura, Hidekazu, 3,662,194.
- Kuroki, Nobuhiko; Komatsu, Kiroku; Tamura, Shuji; and Matsumoto, Hiroyuki, to Nippon Kayaku Kabushiki Kaisha. Process for fast dyeing of fibres and shaped articles. 3,695,821, 10-3-72, Cl. 8-2,000.
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- Kuron, Dieter: *See*—
Graefen, Hubert; and Kuron, Dieter, 3,664,831.
- Kurosaki, Shoji: *See*—
Segawa, Hiroyuki; Kurosaki, Shoji; and Kawaguchi, Takuo, 3,657,184.
- Kurosawa, Kenjiro: *See*—
Masuda, Tetuzo; Kurosawa, Kenjiro; Hashimoto, Takeo; and Izumi, Takahisa, 3,696,730.
- Kurosawa, Masatoshi: *See*—
Ozutsu, Minoru; Kawakami, Kazuo; Ishizaki, Sumio; and Kurosawa, Masatoshi, 3,671,182.
- Kurosawa, Yoshinori; and Katsurawasa, Takashi. Liquids shaking device. 3,635,446, 1-18-72, Cl. 259-54.
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Yamamoto, Atsunori, 3,704,495.
- Kurotori, Tuncu: *See*—
Shimizu, Sakae; Arai, Fumiaki; and Kurotori, Tuncu, 3,639,122.
- Kurotschka, Georg: *See*—
Siebecker, Hans; Wichmann, Gunter; and Kurotschka, Georg, 3,706,886.
- Kuroyama, Toshinobu: *See*—
Toshioka, Toru; and Kuroyama, Toshinobu, 3,652,985.
- Kuroyanagi, Masashi: *See*—
Masuda, Noboru; and Kuroyanagi, Masashi, 3,680,026.
- Kuroyanagi, Yoshitaka: *See*—
Uchida, Yasuo; and Kuroyanagi, Yoshitaka, 3,691,917.
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Reuschel, Konrad; Platzoder, Karl; and Kursawe, Helga, 3,698,354.
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- Kurth, Carl F.: *See*—
Kao, Chih-Yu; and Kurth, Carl F., 3,663,898.
- Kurth, Carl Ferdinand: *See*—
Kao, Chih-Yu; Kurth, Carl Ferdinand; and Maclean, Roderick Campbell, 3,633,129.
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Mead, Carver A.; and Kurtin, Stephen, 3,678,751.
- Kurtin, Stephen L.: *See*—
De Vaux, Lloyd H.; and Kurtin, Stephen L., 3,693,011.
- Kurtyka, John R.: *See*—
Cornett, Cecil J.; Dolton, Glen D.; and Kurtyka, John R., 3,656,494.
- Kurtz, Abraham J.: *See*—
Smith, Avery B.; Hennig, Ralph R.; Kurtz, Abraham J.; and Pantchenko, Gregory, 3,704,098.
- Kurtz, Anthony D.; Mallon, Joseph; and Gravel, Charles, to Kulite Semiconductor Products, Inc. Electromechanical transducers and housings. 3,654,579, 4-4-72, Cl. 338-2.
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Higgins, George C.; Kurtz, Clark N.; and Eisen, Fred C., 3,663,221.
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Bauman, Joseph F.; Kurtz, Edward, Jr.; Cini, Adrian V.; and Antrobus, Robert E., 3,640,312.
- Kurtz Enterprises, Inc.: *See*—
Kurtz, Thomas D., 3,680,822.
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Hallman, Robert W.; and Kurtz, Gary W., 3,637,377.
Hallman, Robert W.; and Kurtz, Gary W., 3,637,378.
Hallman, Robert W.; and Kurtz, Gary W., 3,637,379.
Hallman, Robert W.; and Kurtz, Gary W., 3,637,380.
Hallman, Robert W.; and Kurtz, Gary W., 3,637,381.
Hallman, Robert W.; and Kurtz, Gary W., 3,637,383.
Hallman, Robert W.; and Kurtz, Gary W., 3,650,743.
Hallman, Robert W.; and Kurtz, Gary W., 3,663,224.
Hallman, Robert W.; and Kurtz, Gary W., 3,707,372.
- Kurtz, John A.: *See*—
Deverser, Frank T.; Kurtz, John A.; Rendon, Daniel; Trahn, Kenneth A.; and Tuttle, James W., 3,699,917.
- Kurtz, John O. Clamp-type electrical terminals. 3,649,954, 3-14-72, Cl. 339-95.
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McLaughlin, Richard T.; Talbot, Frederick G.; Kurtzo, Lawrence E., Jr.; and Moulton, Frederick T., 3,632,892.
- Kuruma, Akinori: *See*—
Fujita, Hiroshi; and Kuruma, Akinori, 3,653,466.
- Kuruma, Hiroshi: *See*—
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,647,866.
- Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,662,000.
- Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Kuruma, Hiroshi; and Murata, Yoshiro, 3,666,840.
- Kaminaka, Hiroshi; Kotera, Norio; Kanda, Tatsuo; Kuruma, Hiroshi; Yanagihara, Hideki; and Murata, Yoshiro, 3,691,278.
- Kurumada, Tomoyuki: *See*—
Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; Watanabe, Ichiro; Murayama, Keisuke; and Morimura, Syoji, 3,684,765.
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- Murayama, Keisuke; Morimura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro, 3,645,965.
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Kurz, Rudolf, 3,667,532.
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Muszumanski, Trude; and Kurz, Gunter, 3,694,056.
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Forschner, Friedrich; Kurzahls, Hans; and Muller, Karl-Heinz, 3,661,480.
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Barnebl, August C.; Bliem, Franz; and Kus, Ernst R., 3,642,142.
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Nagahisa, Masanori; Kusaka, Yoshimi; Iino, Koji; and Yamamoto, Zemichiro, 3,681,276.
- Kusakabe, Hiromi: *See*—
Fujiwara, Tatsuo; and Kusakabe, Hiromi, 3,666,893.
- Kusakabe, Takashi: *See*—
Kawato, Tomoyoshi; Kusakabe, Takashi; and Ono, Toshiyuki, 3,648,008.
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Kigasawa, Kazuo; Hiiragi, Mineharu; Wagatsuma, Nagatoshi; and Kusama, Osamu, 3,644,373.
- Kusan, Inc.: *See*—
Brown, Arnold E., 3,695,736.
- Kusano, Hiroshi: *See*—
Nishiyama, Shigeru; Kusano, Hiroshi; Nagai, Yoshiro; and Miura, Satoshi, 3,706,615.
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Voigt, Hans; Stoock, Georg; Gosewinkel, Werner; and Kusch, Theodor, 3,684,573.
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Debreczeni, Eugene J.; and Kushlefsky, Bernard G., 3,699,138.
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- Kushmuk, Walter P.: *See*—
Hutchinson, William Y.; and Kushmuk, Walter P., 3,667,561.
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Fraser, Robert William; Kushnir, Bud William; and Weizenbach, Bauke, 3,692,596.
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Skulsky, Jury Valentinovich; Boretsky, Vasily Grigorievich; Sakharov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievich; Schukin, Pavel Ivanovich; Daniliv, Ivan Petrovich; Zelensky, Vladimir Filippovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgamovich; and Sokirko, Vasily Andreevich, 3,657,962.
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Reed, William A.; Kinzer, William K.; Swanson, John J.; and Kusner, Robert E., 3,655,837.
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Kuss, Ralph L., 3,644,941.
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Berry, Fred M., 3,689,921.
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Hasegawa, Hidenobu; Kusuda, Zenji; Tanaka, Akira; and Noritani, Jinichiro, 3,633,082.
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Kasano, Hiroyuki; Kurata, Kazuhiro; Ogirima, Masahiko; Kawamura, Masao; and Kusumoto, Hazime, 3,694,759.
Ogirima, Masahiko; Kusumoto, Hazime; and Shinoda, Toshimitu, 3,687,744.
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Ninomiya, Shoichi; Sakai, Masaaki; Oka, Sakae; and Kusunoki, Kikunobu, 3,675,224.
Kusunoki, Shigeru: *See—*
Hosokawa, Tomoyuki; Tsugeki, Toshii; and Kusunoki, Shigeru, 3,636,310.
Kusunose, Tethiro: *See—*
Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Kusunose, Tethiro; Tsumaki, Tatsuchi; and Ota, Masami, 3,705,877.
Kusushita, Takao: *See—*
Iwakura, Yoshio; Uno, Keikichi; Kajiyama, Shigeru; Kitada, Yoshihiro; Kusushita, Takao; and Iijima, Kunio, 3,632,536.
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Wegner, Peter; Neeff, Rutger; and Kuth, Robert, 3,642,426.
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Kutik, Louis F.: *See—*
Gronemeyer, Erich W.; and Kutik, Louis F., 3,657,407.
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Kutino, Tuyoshi: *See—*
Yamagishi, Hidehisa; Yokoi, Fumitoshi; and Kutino, Tuyoshi, 3,700,477.
Kutlyar, Vladimir Petrovich: *See—*
Bezugly, Stanislav Leontievich; Sidorsky, Mikhail Andreevich; and Kutlyar, Vladimir Petrovich, 3,686,559.
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Kutsykovich, Dorina Borisovna: *See—*

Andoniev, Sergei Mikhailovich; Kutsykovich, Dorina Borisovna; Gerber, Leonid Moiseevich; Kudinov, Gennady Alexandrovich; Kasyanov, Grigory Ivanovich; Nissenbaum, Tamara Izovna; Raikovskiy, Jury Bortsovich; Somchenko, Mikhail Semenovich; and Filipiev, Oleg Vadimirovich, 3,692,103.
Andoniev, Sergei Mikhailovich; Gerber, Leonid Moiseevich; Kasyanov, Grigory Ivanovich; Kudinov, Gennady Alexandrovich; Kutsykovich, Dorina Borisovna; Nissenbaum, Tamara Izovna; Raikovskiy, Jury Borisovich; Somchenko, Mikhail; and Filipiev, Oleg, 3,693,708.
Kutta, Helmut W.: *See—*
Burk, Emmett H., Jr.; Kutta, Helmut W.; and Wolgemuth, Larry G., 3,652,507.
Kutter, Eberhard: *See—*
Reuter, Wolfgang; Kutter, Eberhard; Sauter, Robert; Machleidt, Hans; and Wildfeuer, Alexander, 3,655,685.
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Goldstein, Milton; Hair, George R.; Kutzenko, Jack; and Marchand, Jacques J., 3,655,488.
Kuussaari, Pekka, to Spinner Osakeyhtio. Curling sleeve. 3,656,290, 4-18-72, Cl. 57-77.4.
Kuvaev, Gennady Nikolaevich: *See—*
Lyashenko, Vitaly Petrovich; Kuvaev, Gennady Nikolaevich; and Baglei, Boris Petrovich, 3,633,265.
Kuvaeva, Zoya Ivanovna: *See—*
Ermolenko, Igor Nikolaevich; Sviridova, Remma Nikolaevna; and Kuvaeva, Zoya Ivanovna, 3,702,832.
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Kuvshinov, Viktor Alexandrovich: *See—*
Voitsekhovsky, Bogdan Vyacheslavovich; Kuvshinov, Viktor Alexandrovich; Plaxin, Vladimir Nikolaevich; and Nevsky, Vyacheslav Alexandrovich, 3,668,914.
Kuvshinov, Vladimir Zakharovich: *See—*
Grinchenko, Nikolai Nikolaevich; Abakanovich, Vadim Vyacheslavovich; Goldstein, Jury Moiseevich; Gurevich, Grigory Zakharovich; Chepelev, Viktor Gavrilovich; and Kuvshinov, Vladimir Zakharovich, 3,693,077.
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Kuwabara, Yoshimi: *See—*
Koda, Ken'ichi; Kikuchi, Shoji; Wada, Tsuneo; Kuwahara, Yoshimi; Horikoshi, Akira; Tanimura, Kensaku; and Sugita, Sadao, 3,704,128.
Soma, Nobuo; Watatani, Mitsuo; Nakazawa, Junichi; Sato, Yoshio; Kuwabara, Yoshimi; and Ishikawa, Hidehiko, 3,700,682.
Kuwada, Yutaka: *See—*
Ishii, Kiyofumi; Toda, Jun; Aoki, Hisashi; and Kuwada, Yutaka, 3,660,378.
Meguro, Kanji; Kuwada, Yutaka; Nagawa, Yuji; and Masuda, Toru, 3,652,754.
Meguro, Kanji; Kuwada, Yutaka; and Masuda, Toru, 3,687,941.
Meguro, Kanji; Tawada, Hiroyuki; Kuwada, Yutaka; and Masuda, Toru, 3,692,772.
Tawada, Hiroyuki; Meguro, Kanji; and Kuwada, Yutaka, 3,703,525.
Kuwahara, Ayako, to Industrial Science & Technology, Agency of. Motorized amusement car. 3,700,058, 10-24-72, Cl. 180-21.000.
Kuwahara, Hisaharu: *See—*
Miki, Masakazu; Takeuchi, Yasuhiro; and Kuwahara, Hisaharu, 3,642,518.
Kuwahara, Kenshi; Sonoda, Shigetada; and Ishii, Masahito, to Mitsui Mining & Smelting Co., Ltd. Precipitation copolymerization of metal salts of unsaturated carboxylic acids. 3,705,137, 12-5-72, Cl. 260-80.30c.
Kuwana, Motoyuki: *See—*
Kamio, Kosaku; Kuwana, Motoyuki; Takahashi, Atsushi; and Sihara, Masao, 3,660,332.
Kuwano, Sadaichi. Fine cloisonne. 3,672,967, 6-27-72, Cl. 204-38.00c.
Kuwata, Takeo: *See—*
Kishikawa, Kanichi; Kuwata, Takeo; Kinoshita, Kentaro; Tsuchiya, Takao; and Kamogawa, Yoshiro, 3,678,721.
Kuwata, Tsutomu; Nagato, Syoichi; and Yamada, Tadashi, to Daicel Ltd. Process for the preparation of high purity trimellitic anhydride from trimellitic acid by the chemical reduction of nitro-compound impurities. 3,637,761, 1-25-72, Cl. 260-346.3.
Kuwayama, Koji: *See—*
Noda, Masajiro; Kajita, Hiroyuki; and Kuwayama, Koji, 3,700,402.
Kuwayama, Masahiro: *See—*
Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, 3,647,552.

Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, 3,655,449.
Kuwasuru, Issei: *See—*
Sagane, Norio; Kuwasuru, Issei; and Katesu, Isao, 3,673,129.
Kuwahara, Hiroshi: *See—*
Nihashi, Yoshiyuki; Osawa, Akira; and Kuwahara, Hiroshi, 3,636,448.
Kuyama, Shimpei: *See—*
Schrader, Gerhard; Scheinpfug, Hans; Jung, Herbert F.; Kuyama, Shimpei; Kishino, Shigeo; and Yamada, Yasuo, 3,705,241.
Kuykendall, James H., to TRW Inc. Regenerative voltage regulators. 3,641,424, 2-8-72, Cl. 323-17.
Kuyper, William, to United States of America, Navy. Ammunition container for aircraft. 3,670,623, 6-20-72, Cl. 89-34.000.
Kuypers, Hubert: *See—*
Matthieu, Paul; Leuchs, Ottmar; Glander, Fritz; Kuypers, Hubert; and Pelz, Diethart, 3,698,440.
Kuypers, Hubert, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Multi-tubing system. 3,646,972, 3-7-72, Cl. 138-111.
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Kuzmenko, Ivan Emelyanovich: *See—*
Fridman, Uriel Grigorievich; Mor, Gera Sergeevna; Skadynsh, Rolands Bernkhardovich; and Kuzmenko, Ivan Emelyanovich, 3,691,885.
Kuzmick, Lester F.: *See—*
Shatwell, Donald G.; and Kuzmick, Lester F., 3,663,060.
Kuzmicki, Roland T., to United States Steel Corporation. Hopper car door actuating mechanism. 3,656,437, 4-18-72, Cl. 105-240.
Kuzmik, John J.: *See—*
Brown, Sharon D.; D'Ottavio, Eugene D.; Kuzmik, John J.; and Grunwald, John J., 3,682,786.
Grunwald, John J.; D'Ottavio, Eugene D.; and Kuzmik, John J., 3,632,388.
Kuzmik, John J., to MacDermid Incorporated. Preparation of plastic substrates for electroless plating and solutions therefor. 3,698,919, 10-17-72, Cl. 106-1.000.
Kuznetsov, Ivan Vasilievich: *See—*
Tselikov, Alexandr Ivanovich; Grum-Grzhimailo, Nikolai Alexeevich; Verderevsky, Vadim Anatolievich; Vernik, Alexandr Borisovich; Skorupsky, Boris Pavlovich; Kazakevich, Igor Il'larionovich; and Kuznetsov, Ivan Vasilievich, 3,661,314.
Kuznetsov, Leonid Georgievich: *See—*
Niskovskikh, Vitaly Maximovich; Dyshkant, Viktor Fedorovich; and Kuznetsov, Leonid Georgievich, 3,685,571.
Kuznetsov, Lev Vasilievich; Slavinsky, Zunya Mikhailovich; Kalachev, Vasily Alexeevich; Krupin, Alexandr Leonidovich; Aristarkhov, Nikolai Alexandrovich; Popkov, Eduard Jurievich; Trutnev, Vladimir Alexandrovich; and Bulychev, Nikolai Petrovich. Machine for assembling contact sockets for electrical connections of the plug-and-socket type. 3,704,496, 12-5-72, Cl. 29-25.190.
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Kuznetzoff, Philip, to RCA Corporation. Method for making a kinescope comprising production and treatment of a temporary mask. 3,663,997, 5-23-72, Cl. 29-25.14.
Kuzniak, Bernard. Pneumatic conveyors. 3,661,381, 5-9-72, Cl. 271-26.
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Kuzuya, Susumu: *See—*
Hishida, Yukio; Nakai, Toshio; and Kuzuya, Susumu, 3,706,366.
Kvaerner Brug A/S: *See—*
Bognaes, Ragnar; and Solberg, Olav, 3,677,021.
Bognaes, Ragnar; and Solberg, Olav, 3,680,323.
Ostrem, Halvor, 3,696,774.
Kvalheim, Andrew, to Kvalheim Machinery Co. Adjustable trim saw apparatus for miter cuts and saw kerfs. 3,665,982, 5-30-72, Cl. 143-6.00h.
Kvalheim, Andrew M.; and Wasse, Howard M., to Aim Products, Inc. Universal molding strip for trimming. 3,671,369, 6-20-72, Cl. 161-40.000.
Kvalheim Machinery Co.: *See—*
Kvalheim, Andrew, 3,665,982.
Kvam, Donald C.: *See—*
Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,637,729.
Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,639,474.
Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,642,817.
Kvamegard, Sven Bertil, to Aktiebolaget Carl Lamm. Apparatus for thermographic duplication of a radiation absorbent picture. 3,654,462, 4-4-72, Cl. 250-65.
Kveglis, Albert A.: *See—*
Kolyer, John M.; and Kveglis, Albert A., 3,632,837.
Kolyer, John M.; and Kveglis, Albert A., 3,683,048.
Kveglis, Albert Andrew: *See—*
Kolyer, John McNaughton; and Kveglis, Albert Andrew, 3,669,827.
Kvemeland, Finn, to Globus Maskinfabrik A/S. Machine for distributing seed, fertilizer and other grain or powder masses. 3,675,856, 7-11-72, Cl. 239-654.000.
Kwake, John P., to Kydar Company, The. Inflatable enclosure for swimming pools and the like. 3,676,880, 7-18-72, Cl. 4-172.120.
Kwako, Stanley J. Holder. 3,684,224, 8-15-72, Cl. 248-87.000.
Kwanten, Ferdinand J. G.: *See—*
De Rooij, Abraham H.; and Kwanten, Ferdinand J. G., 3,701,809.
Kwantes, Arien; and Stouthamer, Bernhard, to Shell Oil Company. Production of acids and esters. 3,634,495, 1-11-72, Cl. 260-488.
Kwantes, Arien; and Stouthamer, Bernhard, to Shell Oil Company. Process for carbonylating alkanols. 3,671,559, 6-20-72, Cl. 260-413.000.
Kwasniewski, George A.: *See—*
Wellington, Charles K.; Jung, Dietrich; and Kwasniewski, George A., 3,666,193.
Kwasnik, Herbert R.; Sieckhaus, John F.; and Knollmueller, Karl O., to Olin Corporation. Method for preparing poly-carboranylenesiloxane polymers. 3,637,589, 1-25-72, Cl. 260-46.5.
Kwast, Gerald M. Template for use in marking firebrick preparatory to cutting for fireboxes of fireplaces and similar structures. 3,657,824, 4-25-72, Cl. 33-174.
Kwei, Thomas: *See—*
Allen, Charles A.; Andersen, Stanley R.; Kinkade, Robert G.; Kwei, Thomas; and Robinson, Richard H., 3,681,757.
Kweller, Esher R.: *See—*
Rosenberg, Robert B.; Kweller, Esher R.; and Staats, William R., 3,698,378.
Kweller, Esher R.; Staats, William R.; and Rosenberg, Robert B., to Institute of Gas Technology. Self-igniting burners. 3,681,002, 8-1-72, Cl. 431-268.000.
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Kwiatkowski, Wolfgang, to Agfa-Gevaert Aktiengesellschaft. Apparatus for treating roll film or the like in liquid baths. 3,691,926, 9-19-72, Cl. 95-94.00r.
Kwik Lok Corporation: *See—*
Holmes, Jack H., 3,668,818.
Kwikform Limited: *See—*
Gostling, Peter Eric, 3,656,580.
Gostling, Peter Eric, 3,707,304.
Kwok, Roderic P.: *See—*
Sliva, Martin E.; and Kwok, Roderic P., 3,667,916.
Kwolek, Stephanie Louise, to Du Pont de Nemours, E. I., and Company. Optically anisotropic aromatic polyamide dopes. 3,671,542, 6-20-72, Cl. 260-308.00r.
Kyburz, Edgar: *See—*
Schaper, Hans; Springer, Kurt; and Kyburz, Edgar, 3,664,946.
Kyburz, Emilio; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. 1,10(or 11)-Dihalo-5-(3-dimethylaminopropyl or -propylidene)-5H-dibenzo [a,d] cycloheptene N-oxides. 3,632,857, 1-4-72, Cl. 260-570.8.
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Kyburz, Hans. Insulating fitting and method for manufacturing. 3,671,060, 6-20-72, Cl. 285-54.000.
Kydar Company, The: *See—*
Kwake, John P., 3,676,880.
Kydd, Paul H., to General Electric Company. Metering of liquid coolant in open-circuit liquid-cooled gas turbines. 3,658,439, 4-25-72, Cl. 416-97.
Kydd, Paul H., to General Electric Company. Elastomeric mold lining for making wax replica of complex part to be cast. 3,678,987, 7-25-72, Cl. 164-45.000.
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- Kyle, William: *See*—
Burger, Jack E.; Deutsch, Fritz A.; Howe, Warren B.; and Kyle, William, 3,650,204.
- Kyllonen, Allen W., to Westinghouse Air Brake Company. Slack adjuster mechanism for tread brake apparatus. 3,707,208, 12-26-72, Cl. 188-202.000.
- Kyminas, Stanley C.: *See*—
Medica, Joseph J.; Trout, Kenneth G.; and Kyminas, Stanley C., 3,655,594.
- Kyodo Chemical Company Limited: *See*—
Sassa, Atsuo; Yukutomi, Masuo; Shinkawa, Hiroto; Moriya, Tuneso; and Homma, Keisuke, 3,697,566.
- Kyoikushuppan Co., Ltd.: *See*—
Sakamoto, Tsuneo, 3,701,214.
- Kyoraku Kogyo Co., Ltd.: *See*—
Nagai, Tomomatsu, 3,636,151.
- Kyorin Seiyaku Kabushiki Kaisha: *See*—
Irikura, Tsutomu; Kasuga, Kazuga; and Segawa, Mitsuru, 3,647,805.
- Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keichi; Shinoda, Hirotsuka; and Hasegawa, Yoshinori, 3,679,730.
- Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keichi; and Shinada, Hirotsuka, 3,697,577.
- Kyoritsu Manufacturing Company Limited: *See*—
Nishikawa, Eikichi, 3,704,879.
- Kyoritsu Noki Co., Ltd.: *See*—
Kobayashi, Torao; and Sato, Masatoshi, 3,700,015.
- Kyowa Denki Kagaku Kaisha: *See*—
Hirota, Kashichi, 3,678,868.
- Kyowa Gas Chemical Industry Co., Ltd.: *See*—
Nagai, Haruo; and Sugiyama, Naohisa, 3,647,729.
- Kyowa Hakko Kogyo Co., Ltd.: *See*—
Abe, Shigeo; and Takayama, Kenichiro, 3,684,653.
Abe, Shigeo; and Takayama, Kenichiro, 3,700,556.
Fujimoto, Yasuo; Tatsukawa, Keizo; and Doiuchi, Toru, 3,635,909.
Fujimoto, Yasuo; Tatsukawa, Keizo; and Koiwa, Yoichi, 3,637,727.
Fujimoto, Yasuo; and Koshimoto, Shinsuke, 3,637,837.
Fujimoto, Yasuo; and Teranishi, Masayuki, 3,644,412.
Fujimoto, Yasuo; and Koiwa, Yoichi, 3,651,004.
Fujimoto, Yasuo; Tatsukawa, Keizo; Teranishi, Masayuki; and Koiwa, Yoichi, 3,658,831.
Fujimoto, Yasuo; Nagaoka, Koichi; Tatsukawa, Keizo; and Koiwa, Yoichi, 3,671,482.
Fujimoto, Yasuo; Teranishi, Masayuki; and Tezuka, Toshihiko, 3,705,873.
Hata, Toju; Kamada, Hideo; Wakaki, Shigetoshi; Kudo, Shiro; Tomioka, Keitaro; Mirumo, Hirofuto; Kato, Eturo; and Shimizu, Motoaki, 3,660,578.
Hoshino, Kazuo; and Kanemitsu, Akio, 3,669,689.
Imada, Osamu; Hoshiai, Kazuo; and Tanaka, Masatami, 3,635,796.
Imada, Osamu; Hoshiai, Kazuo; and Tanaka, Masatami, 3,645,846.
Kawai, Masanobu; and Mukai, Noboru, 3,682,778.
Kawai, Masanobu; and Mukai, Noboru, 3,694,316.
Nakayama, Kiyoshi; Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, 3,650,897.
Nakayama, Kiyoshi; and Hagino, Hiroshi, 3,684,652.
Nakayama, Kiyoshi; Tanaka, Haruo; and Kase, Hiroshi, 3,684,654.
Nakayama, Kiyoshi; and Hagino, Hiroshi, 3,687,809.
Nakayama, Kiyoshi; and Kase, Hiroshi, 3,692,628.
Nakayama, Kiyoshi; Tanaka, Haruo; and Hagino, Hiroshi, 3,700,557.
Nakayama, Kiyoshi, 3,705,080.
Nakayama, Kiyoshi, 3,705,081.
Nakayama, Kiyoshi; and Tanaka, Haruo, 3,650,898.
Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, 3,668,071.
Nara, Takashi; Misawa, Masanaru; and Okachi, Ryo, 3,682,777.
Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Araki, Kazumi, 3,642,579.
Noguchi, Yuichi; Nakanishi, Toru; and Taketugu, Yasuyuki, 3,650,899.
Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Nakanishi, Toru, 3,684,655.
Noguchi, Yuichi; Nakajima, Junichi; and Araki, Kazumi, 3,689,360.
Sakurai, Katumi; and Odajima, Kenji, 3,682,789.
Samejima, Hiroto; Nagano, Yuji; Ota, Shigenori; Kanzaki, Yasushi; Matsuo, Hideki; and Kuroda, Keizo, 3,658,557.
Tanaka, Katsunobu; and Suzuki, Takeo, 3,637,461.
Tanaka, Katsunobu; Ohshima, Kazuo; Kimura, Kazuo; and Yamamoto, Masaki, 3,639,210.
Tanaka, Katsunobu; and Suzuki, Takeo, 3,642,575.
Tanaka, Katsunobu; Kimura, Kazuo; and Yamaguchi, Ken, 3,642,576.
- Tanaka, Katsunobu; and Kimura, Kazuo, 3,655,510.
- Tanaka, Katsunobu; Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, 3,674,641.
- Tanaka, Katsunobu; Kimura, Kazuo; and Yamaguchi, Ken, 3,691,012.
- Tanaka, Masao; Nakamura, Nobuo; and Takasawa, Seigo, 3,647,627.
- Tanaka, Masao; Kagawa, Tsuneo; Mochizuki, Kazuo; and Kohagura, Masahiro, 3,655,514.
- Tanaka, Masao; Oka, Tetuo; Fujio, Tatsuro; and Mochizuki, Kazuo, 3,669,842.
- Tanaka, Masatami; and Hirotsuka, Tadashi (said Hirotsuka assor to), 3,642,257.
- Tanaka, Masatami; and Hirotsuka, Tadashi, 3,690,621.
- Terada, Osamu, 3,692,632.
- Kyowa Hakko Kogyo Kabushiki Kaisha: *See*—
Fujimoto, Yasuo, 3,642,782.
Kawai, Masanobu, 3,677,899.
Kurihara, Sumio; Araki, Kazumi; Ueda, Hiroyuki; and Ikumo, Masahiko, 3,632,474.
Kurihara, Sumio; Araki, Kazumi; Ueda, Hiroyuki; and Ikumo, Masahiko, 3,668,073.
Kurihara, Sumio; Araki, Kazumi; Akeyama, Katsumi; and Takasawa, Yoshimasa, 3,687,810.
Nakajima, Junichi; Araki, Kazumi; and Morinaga, Kenzo, 3,676,301.
Nakayama, Kiyoshi; and Hagino, Hiroshi, 3,671,396.
Tanaka, Katsunobu; Ohshima, Kazuo; Tokoro, Yoh; and Okii, Mitsuyoshi, 3,654,079.
Tanaka, Katsunobu; Ohshima, Kazuo; Tokoro, Yoh; and Okii, Mitsuyoshi, 3,698,997.
Tanaka, Masao; Kishi, Teruo; and Mineura, Kazuyuki, 3,699,113.
Uzu, Keizo; Nakano, Kinichi; and Takahashi, Toshinaka, 3,641,053.
Uzu, Keizo; Nakano, Kinichi; and Takahashi, Toshinaka, 3,644,400.
Uzu, Keizo; Nakano, Kinichi; and Takahashi, Toshinaka, 3,658,794.
- Kyowa Hakko Kogyo Kabushiki Kaisha (Kyowa Hakko Kogyo Co., Ltd.): *See*—
Tanaka, Katsunobu; and Kimura, Kazuo, 3,652,396.
- Kyriacou, Demetrios, to Dow Chemical Company, The. Separation of chlorinated pyridines and derivatives thereof. 3,668,209, 6-6-72, Cl. 260-290.00a.
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Aylies, Sargeant E.; Hillhouse, Mial T.; Kyriakis, Alexander; and Pengilly, Brian W., 3,634,339.
- Kyriakis, John; and Tole, Walter Roland, to Beta Instrument Company Limited. Method for annealing flexible metallic material. 3,697,335, 10-10-72, Cl. 148-154.000.
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- Kyrias, Lucian C.: *See*—
Moran, William F.; and Kyrias, Lucian C., 3,663,267.
- Kyritsis, William T.: *See*—
Annis, Rupert E., Jr.; and Kyritsis, William T., 3,674,401.
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Booth, William C.; and Kyser, Leslie T., 3,697,734.
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Pioch, Robert J., 3,640,410.
Rainwater, Julius H., 3,690,118.
- Kysor Industrial Corporation, mesne: *See*—
Beckwith, Sterling; and Vogel, Robert E., 3,648,482.
- Kytta, Oswald O., to Bendix Corporation, The. Clip retainer. 3,688,647, 9-5-72, Cl. 91-369.00a.
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Umeya, Kaoru; Tanaka, Shunji; and Gomi, Shinpei, 3,663,248.
Umeya, Kaoru; Watanabe, Akira; and Gomi, Shinpei, 3,667,974.
- L & F Machine Co.: *See*—
Parker, Russell A., 3,638,559.
- L & M Manufacturing and Supply, Inc.: *See*—
Luke, Isaac G., 3,648,574.
- La Barber, Joseph A., to Weiland, Henry. Water massage aerator apparatus. 3,683,899, 8-15-72, Cl. 128-66.000.
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Nye, Eugene A., 3,692,924.

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Baynes, William R.; La Branche, Harvey W.; and Soukakis, George, 3,695,513.
Chang, Richard S.; Cutler, Stanley; La Branche, Harvey W.; Pearlman, Marshall B.; Ryan, John W.; and Toy, Raymond M., 3,647,927.
- La Branche, Harvey W., to Mattel, Inc. Wheel for a toy car. 3,638,356, 2-1-72, Cl. 46-221.
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Fleurquin, Yves; and Bruckmann, Andre, 3,698,930.
Weber, Guy Paul, 3,692,409.
- La Cellophane S.A.: *See*—
Le Parathoen, Rene, 3,637,906.
- Vassitch, Pavle, 3,684,367.
- La Cellophane, Societe Anonyme: *See*—
Mahe, Yves; Letourneur, Gilbert; and Devillas, Jean-Luc, 3,690,910.
- La Chance, Murdock H., to Xerox Corporation. Method of hermetically sealing silicon to a low expansion alloy. 3,703,306, 11-21-72, Cl. 287-189.365.
- La Corre, Yvette Marie Laurence: *See*—
Dupieux, Jacques Georges; Gadre, Jean-Claude; Le Corre, Jean-Pierre; and Loisel, Jean Francois Pierre Julien, 3,678,206.
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- La Croce, John Matthew. Milking assistance device. 3,677,232, 7-18-72, Cl. 119-146.000.
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Buchanan, James F.; and La Fever, Clifford E., 3,641,869.
- La Flair, Ronald Turner; and Henderson, John Frederick, to Polymer Corporation Limited. Rubbery polymeric blends. 3,641,205, 2-8-72, Cl. 260-876.
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- La Fontaine, Lucien. Garage door opener. 3,633,313, 1-11-72, Cl. 49-199.
- La Force, Phil D.: *See*—
Scannell, Paul R.; La Force, Phil D.; and O'Connell, Wayne T., 3,675,425.
- La Force, Robert C. Combustion engine pollution control. 3,656,303, 4-18-72, Cl. 60-273.
- La Force, Walter P.; and Woodhams, Glen A., to Sybron Corporation. Dental tray and support. 3,667,124, 6-6-72, Cl. 32-22.000.
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- La Fortune, Normand J.: *See*—
Maccone, Frederick W.; and La Fortune, Normand J., 3,687,040.
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- La France, Norman: *See*—
Becht, Guenter; Kunde, Joachim; La France, Norman; and Mueller, Karl Robert, 3,707,344.
- La Freniere, Lawrence J.: *See*—
Forbes, Hampton E., Jr.; and La Freniere, Lawrence J., 3,640,447.
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van Loghen, Johannes Jacobus; and La Grouw, Johannes, 3,688,460.
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Guarino, Michael J., Sr., 3,675,929.
- La Marche, Robert Ernest; and May, Carl Jerome, Jr., to Bell Telephone Laboratories, Incorporated. Common control digital echo suppression. 3,673,355, 6-27-72, Cl. 179-170.600.
- La Marre, David A.: *See*—
Kantorski, Joseph W.; La Marre, David A.; and Smith, Donald A., 3,670,263.
- La Marre, David A.; Schauweker, George H.; and Stickney, Herbert F., to American Optical Corporation. Protective garment. 3,691,564, 9-19-72, Cl. 2-2.000.
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La Mers, Herbert, 3,661,625.
- La Metallo-Chimique S.A.: *See*—
Dierckx, Ludovicus Maria; Feron, Denis Lucian; and Guns, Karel, 3,682,623.
- La Monica, Daniel A.: *See*—
Salmansohn, Max A.; and La Monica, Daniel A., 3,689,709.
- La Monica, Frank, to Rotondo, A., & Sons, Inc. Leaching chamber unit for soil absorption system. 3,645,100, 2-29-72, Cl. 61-13.
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- La Montagne, Marshall J. Toy bank. 3,650,379, 3-21-72, Cl. 206-1.5.
- La Montagne, Richard L. Flower holders. 3,651,601, 3-28-72, Cl. 47-41.12.
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Mielnikowski, Eugene F., Jr.; Kratoski, Frank L.; and La Morte, Gerardo M., 3,653,756.
- La Neve, Angelo L., to ALN Enterprises. Beverage mixer and dispenser. 3,664,643, 5-23-72, Cl. 259-44.
- La Pan, Raymond D. Product dryer. 3,681,856, 8-8-72, Cl. 34-191.000.
- La Pine, Anthony N.: *See*—
Lang, Paul C.; La Pine, Anthony N.; and Vaughn, Julian E., 3,701,039.
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LaRaus, Julius, 3,692,180.
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- La Roe, Emmett T., to McDonnell Douglas Corporation. Store rack hook assembly. 3,677,506, 7-18-72, Cl. 244-137.000.
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La Salle Machine Tool, Inc.: *See—*

Lamb, Donald P., 3,677,383.

Skrentner, Frank C., 3,670,607.

Skrentner, James A., 3,677,115.

Willuweit, Werner, 3,648,852.

La Salle Steel Company: *See—*

Nachtman, Elliot S., 3,705,020.

Nachtman, Elliot Simon, 3,679,400.

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La Societe dite Societe Chimique de la Grande: *See—*

Lhonorc, Pierre; Quibel, Jacques; and Senes, Michel, 3,644,100.

La Sota, Leo S., to McGraw-Edison Company. Liquid moisture detector. 3,671,912, 6-20-72, Cl. 338-34.000.

La Soudure Electrique, Precedes Arcos: *See—*

Sunnen, Jean A. F.; and Schoumaker, Henry R. P. J., 3,660,630.

La Spirotechnique: *See—*

Vez, Serge, 3,633,601.

La Telemecanique Electrique: *See—*

Joly, Jean, 3,634,809.

Orts, Joseph, 3,655,154.

Santerre, Fernand; and Libaud, Francis, 3,676,990.

La Telephonie Industrielle et Commerciale "Telic": *See—*

Bloch, Paul, 3,688,229.

La Tolteca Foods, Inc.: *See—*

Hilvitz, Arthur L.; Hilvitz, Philip E.; Hilvitz, Harvey M.; and Campbell, Richard, 3,667,372.

La Torre, Augustin: *See—*

Junas, Thomas B.; and La Torre, Augustin, 3,652,497.

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La Vault, Maurice G.: *See—*

Dill, William E.; La Vault, Maurice G.; Kokoszka, Stanley L.; and Shrader, William W., 3,639,892.

La Via, Anthony L.: *See—*

Hill, John A.; and La Via, Anthony L., 3,695,898.

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La Violette, Paul A.: *See—*

Kennedy, Ralph C.; La Violette, Paul A.; and Stromberg, Henry M., 3,670,442.

La Voie, Francis X. Control and power apparatus for operating trash collection vehicle packers. 3,667,629, 6-6-72, Cl. 214-83.300.

La-Z-Boy Chair Company: *See—*

Knabusch, Edward M.; Shoemaker, Edwin J.; and White, David B., 3,695,701.

Laa, Friedrich: *See—*

Lambeck, Adriaan Jan Jurriaan; Laa, Friedrich; and Rupp, Karl, 3,653,607.

Laabs, Johannes: *See—*

Holtrup, Bernhard; and Laabs, Johannes, 3,691,775.

Laakaniemi, Richard N.; Kuczkowski, Frank A.; Atkinson, Louis D.; Kuhar, Paul W.; Lechner, Thomas J., Jr.; and Weber, Urban A., to Johnson Service Company. Fluid mixing control apparatus. 3,654,944, 4-11-72, Cl. 137-81.5.

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Laakso, Thomas M.: *See—*

Ford, John A., Jr.; McConkey, Robert C.; and Laakso, Thomas M., 3,677,754.

Reynolds, George A.; Laakso, Thomas M.; Borden, Douglas G.; and Williams, Jack L. R., 3,696,072.

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Lab, Edgar: *See—*

Richter, Wolfgang Max Egon; Lab, Edgar; and Sieblist, Hans Werner, 3,668,959.

Lab-Volt (Quebec) Limited: *See—*

Wildi, Theodore, 3,657,923.

Labana, Santokh S.: *See—*

Aronoff, Elihu; and Labana, Santokh S., 3,679,447.

Dickie, Ray A.; and Labana, Santokh S., 3,699,185.

Fellers, John F.; Labana, Santokh S.; and Newman, Seymour, 3,652,476.

Fellers, John F.; Labana, Santokh S.; and Newman, Seymour X., 3,661,828.

Johnson, Olin B.; and Labana, Santokh S., 3,649,337.

Johnson, Olin B.; and Labana, Santokh S., 3,659,003.

Johnson, Olin B.; and Labana, Santokh S., 3,660,143.

Johnson, Olin B.; and Labana, Santokh S., 3,660,144.

Johnson, Olin B.; and Labana, Santokh S., 3,660,145.

Johnson, Olin B.; and Labana, Santokh S., 3,660,355.

Johnson, Olin B.; and Labana, Santokh S., 3,660,371.

Johnson, Olin B.; and Labana, Santokh S., 3,689,307.

Johnson, Olin B.; and Labana, Santokh S., 3,689,308.

Johnson, Olin B.; and Labana, Santokh S., 3,689,309.

Johnson, Olin B.; and Labana, Santokh S., 3,689,310.

Johnson, Olin B.; and Labana, Santokh S., 3,697,312.

Johnson, Olin B.; and Labana, Santokh S., 3,701,679.

Jones, Freeman B.; and Labana, Santokh S., 3,658,675.

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LaBar, Dale H.: *See—*

Watson, Edward J.; and LaBar, Dale H., 3,671,589.

Labarge, Robert G.; and Bradley, Donald K., to Dow Chemical Company, The. Bleaching compositions. 3,660,295, 5-2-72, Cl. 252-104.

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Labat, Yves: *See—*

Esclamadon, Christian; Labat, Yves; and Signouret, Jean-Baptiste, 3,706,806.

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Labatt, John, Limited: *See—*

Gosling, Dickinson, 3,677,458.

Labavia-S.G.E.: *See—*

Bessiere, Pierre Etienne, 3,650,358.

LaBaw, Kenneth B., to United States of America, Navy. Radiation sensitive optical tracker. 3,678,283, 7-18-72, Cl. 250-216.000.

LABAZ: *See—*

Gaudin, Jean Joseph, 3,698,494.

Labbaye, Louis; and Bernard, Georges, to Merlin Gerin, Societe Anonyme. Three phase electric switching system having rectifier shunted contacts. 3,675,079, 7-4-72, Cl. 317-11.00a.

Labbe, Clement. Tuning fork for electrically amplified string instruments. 3,666,874, 5-30-72, Cl. 84-1.01.

Labbe, Francis A. M., to Molins Machine Company Limited. Tobacco smoke filter. 3,685,523, 8-22-72, Cl. 131-261.00b.

Labelle, Edward J.: *See—*

Duckwall, Frank E.; and Labelle, Edward J., 3,645,610.

Labelle, Harold E., Jr.; and Mlavsky, Abraham I., to Tyco Laboratories, Inc. Method and apparatus for growing inorganic filaments, ribbon from the melt. 3,650,703, 3-21-72, Cl. 23-301.

Labelle, Harold E., Jr.; and Little, William T., to Tyco Laboratories, Inc. Crystal growing apparatus. 3,701,636, 10-31-72, Cl. 23-301.0sp.

Labelle, Henri Marcel Robert, to Dynafair Corporation Ltd. Protective grille. 3,654,982, 4-11-72, Cl. 160-199.

Labocey Industrie: *See—*

Palencher, Jacques, 3,642,409.

LaBoda, Mitchell A., to General Motors Corporation. Electrochemical machining. 3,669,858, 6-13-72, Cl. 204-143.

Labofina, Soc. An.: *See—*

DeRaditzky D'Ostrowick, Pierre; and Hanotier, Jacques D. V., 3,665,030.

Labombarde, Raymond A. Apparatus and method for applying high viscosity coatings. 3,684,561, 8-15-72, Cl. 117-111.004.

Laboratoire de Recherches Chimiques et Industrielles Marsan: *See—*

Epuran, Jean, 3,649,622.

Laboratoire Phagogene: *See—*

Nikel, Pierre, 3,638,861.

Laboratoire Suisse de Recherches Horlogeres: *See—*

Gass, Hans; and Hintermann, Hans Erich, 3,642,522.

Hintermann, Hans Erich; and Triquet, Christian Jean, 3,661,571.

Laboratoires Houde: *See—*

Fourneau, Jean-Pierre; and Delourme, Jean, 3,654,282.

Laboratoires J. Berthier S.A.: *See—*

Meunier, Henry E.; and Eymard, Pierre L., 3,649,630.

Laboratoires Labaz: *See—*

Binon, Fernand; and Descamps, Marcel Louis Victor, 3,651,051.

Laboratoires OM, S.A.: *See—*

Esteve-Subirana, Antonio; and Coutellier, Chislain, 3,681,503.

Laboratoires Torade: *See—*

Fellion, Yves Louis-Marie, 3,702,325.

Laboratori farmaco-biologici Ellem S.p.A.: *See—*

Brunetti, Brunette; and Pini, Emilio, 3,657,417.

Laboratoires Albert Rolland: *See—*

Thuillier, Yvonne, 3,676,551.

Laboratoires de L'Ozothine: *See—*

Muller, Pierre, 3,673,066.

Laboratoires Jacques Logeais: *See—*

Maillard, Jacques George, 3,655,673.

Laboratoires Sauba: *See—*

Melon, Jean-Marie; and Thomas, Jean, 3,639,606.

Laboratoires Valda: *See—*

Cahn, Jean; Canonne, Edmond Marie; Lejeune, Guy; Ligny, Gaston Arthur Francois; and Modigliani, Dario Claude Fulvio, 3,634,449.

Laboratorio Chimico Farmaceutico E. Granelli S.p.A.: *See—*

Viola, Marino Roberto, 3,642,983.

Laboratorio Nacional de Engenharia Civil: *See—*

Mendes Da Rocha, Manuel Coelho, 3,631,934.

Laboratorio Prodotti Biologici Braglia: *See—*

Gomarasca, Piero; and Scolastico, Carlo, 3,694,470.

Laboratorios Espinos y Bofill S.A.: *See—*

Esteve, Antonio; and Espinos, Jose M., 3,678,040.

Laboratorios Hosbon, S.A.: *See—*

Jurado, Alberto; and Ma Puigmarti, Jose, 3,658,989.

Laboratory Data Control, Inc.: *See—*

Gildner, Kenneth J., 3,693,436.

Watson, Emmett S., 3,666,941.

Laboratory Equipment Corporation: *See—*

Sitek, George J.; and Revesz, Robert N., 3,636,229.

Laborit, Henri, to Centre d'Etudes Experimentales et Cliniques de Physiobiologie, de Pharmacologie et d'Etonologie. Treating of aggression and reduction of fatigue syndromes with L-tyrosine. 3,651,237, 3-21-72, Cl. 424-319.

Laboue, Bernard Andre, to Societe Industrielle Honeywell Bull. Support assembly for electrolytic deposition on contact element. 3,701,726, 10-31-72, Cl. 204-297.00r.

Laboureur, Pierre; and Villalon, Michel, to Societe d'Etudes et d'Applications Biochimiques et Compagnie des Gelatines Francaises. Process for enzymatic degreasing of bones. 3,634,191, 1-11-72, Cl. 195-2.

Labriola, Mario; and Vajna, Sandor, to Dynamit Nobel Aktiengesellschaft. Process for the production of potassium nitrate by the ion exchange method. 3,645,673, 2-29-72, Cl. 23-102.

Labrot, Gunter: *See—*

Classen, Franz; Kaes, Karl; Labrot, Gunter; and Pape, Heinz, 3,649,237.

Labtron Corporation of America: *See—*

Simopoulos, Nicholas T.; and Tsui, James B. Y., 3,703,685.

Labuda, Edward Franklin: *See—*

Dalton, John Vincent; and Labuda, Edward Franklin, 3,676,727.

Labude, Wolfgang; and Kohler, Josef, to PREH Elektro-Feinmechanische Werke, Jakob Preh Nachf. Adjusting unit. 3,641,471, 2-8-72, Cl. 338-128.

Labude, Wolfgang; and Bauer, Karl-Heinz. Channel selection apparatus for high frequency receivers with variable capacitance diode tuning. 3,689,724, 9-5-72, Cl. 200-172.00a.

Labussiere, Andre Julien; and Leon, Joseph Henri, to Avions Marcel Dassault. Method of and means for noise attenuation. 3,692,141, 9-19-72, Cl. 181-33.00e.

Labuza, Theodore P.: *See—*

Frankenfeld, John W.; Karel, Marcus; and Labuza, Theodore P., 3,667,964.

Frankenfeld, John W.; Karel, Marcus; and Labuza, Theodore P., 3,667,965.

Lacal Industries Limited: *See—*

Crosby, Nobel W.; Walker, Robert C.; and Clarke, Gordon J., 3,670,372.

Lacaze, Rene: *See—*

Aucouturier, Jeanne; and Lacaze, Rene, 3,671,895.

Lace, Melvin A.; and Repay, Laszlo N., to Motorola, Inc. Track indicator for a tape player. 3,647,986, 3-7-72, Cl. 179-100.2.

Lace, Melvin A., to Motorola, Inc. Means for increasing the play time of tape cartridges. 3,658,225, 4-25-72, Cl. 226-90.000.

Lace, Melvin A., to Motorola, Inc. Miniature cartridge and means for installing and removing the same. 3,661,336, 5-9-72, Cl. 242-55.19.

Lace, Melvin A., to Motorola, Inc. Variable resistance control device. 3,663,755, 5-16-72, Cl. 179-1.00d.

Lace, Melvin A., to Motorola, Inc. Permanent magnet rotor structure. 3,696,260, 10-3-72, Cl. 310-156.000.

Lace, Melvin A., to Motorola, Inc. Synchronous motor mounting system for speed control. 3,698,615, 10-17-72, Cl. 226-194.000.

Lacer, Wilford G., Jr.; and Mathews, Leland E. O-ring insertion tool. 3,704,505, 12-5-72, Cl. 29-235.000.

Lacey, Edward H. Cord reinforced hose splicing method. 3,666,586, 5-30-72, Cl. 156-98.000.

Lacey, John Aldwyn, to Gas Council, The. Purification of hydrocarbon oils. 3,660,276, 5-2-72, Cl. 208-212.000.

Lacey, Richard F.; Cutter, Leonard S.; and Turner Wilson S., to Hewlett-Packard Company. Atomic beam tube having a homogenous polarizing magnetic field in the RF transition region. 3,670,171, 6-13-72, Cl. 250-41.300.

Lacey, Robert E.; and Mintz, Milton S., 1/2 to Southern Research Institute and 1/2 to United States of America, Interior. Process for effecting changes in solution concentrations. 3,676,335, 7-11-72, Cl. 210-23.000.

Lacey, Robert L., to Illinois Tool Works Inc. On-off clamp for I. V. systems. 3,698,681, 10-17-72, Cl. 251-10.000.

Lachambre, Jean L., to Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence. Pyroelectric joule meter using a divergent lens. 3,641,346, 2-8-72, Cl. 250-83.

Lachambre, Jean L., to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence of Her Majesty's Canadian Government. Ballistic joule meter for measuring a pulse of infrared radiation. 3,660,661, 5-2-72, Cl. 250-83.0h.

Lachamp, Felix; Viout, Andre; and Vanlerberghe, Guy, to Societe Anonymet dite: L'Oreal. Moldable lipstick compositions containing an emulsifier. 3,642,980, 2-15-72, Cl. 424-64.

Lachamp, Felix; and Zviak, Charles, to Societe Anonyme dite: L'Oreal. Lip coloring cosmetics and methods of making same. 3,662,061, 5-9-72, Cl. 424-64.

Lachaussee, Maurice L.; and Maigret, Andre D., to Etablissements Lachaussee, societe anonyme. Method for manufacturing discs from wire. 3,641,801, 2-15-72, Cl. 72-339.

Lachenmayer, Wilhelm: *See—*

Benteler, Helmut; and Lachenmayer, Wilhelm, 3,649,730.

Hartmann, Franz-Josef; and Lachenmayer, Wilhelm, 3,635,615.

Lachenmayer, Wilhelm, to Benteler-Werke AG. Tubular construction. 3,661,184, 5-9-72, Cl. 138-89.

Lachiche, Julien Henri, to Societe Novacel. Device for the continuous manufacture of artificial sponges. 3,682,578, 8-8-72, Cl. 18-4.00b.

Lachinov, Alexandr Alexandrovich: *See—*

Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Kantor, Ilia Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhanelidze, Vazna Venediktovich; Topolyanky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, 3,689,010.

Lachman, Leon; Reiner, Roy H.; Shami, Elie; and Spector, Walter, to Endo Laboratories, Inc. Long-acting narcotic antagonist formulations. 3,676,557, 7-11-72, Cl. 424-260.000.

Lachman, Myron C. Asparagus harvesting device. 3,653,194, 4-4-72, Cl. 56-327.

Lachman, Rudolf: *See—*

Paszke, Jan; Pstrocki, Henry; Ploszajski, Janusz; Lachman, Rudolf; Stanislaw, Lansy; and Wiszczor, Jan, 3,697,051.

Lachner, Otto, to Lever Brothers Company. Pressure-resistant plastics bottle. 3,643,829, 2-22-72, Cl. 215-1.

Lachnit, Friedrich, to Deutsche Babcock & Wilcox Aktiengesellschaft. Apparatus for supplying pressurized fluid to a rotating device. 3,664,762, 5-23-72, Cl. 416-156.

Lachowicz, Donald R.; Simmons, Todd S.; and Kreuz, Kenneth L., to Texaco Inc. Method of preparing nitrocycloalkane. 3,657,349, 4-18-72, Cl. 260-586.

- Lackey, Jerry G.: *See*—
Nelson, Melvin A.; Lackey, Jerry G.; and Davies, Terence J., 3,675,022.
- Lackey, Marion D.: *See*—
Davis, Leo W.; Lackey, Marion D.; Ross, John Reuben; and Trenary, Bryant, 3,704,040.
- Lackey, Marion D., to Automatic Drilling Machines, Inc. Weight control system. 3,648,783, 3-14-72, Cl. 173-4.
- Lackey, Robert S.; Meess, Jack D.; and Swetlitz, Myron, to Westinghouse Electric Corporation. Portable refrigerator utilizing a living hinge. 3,635,536, 1-18-72, Cl. 312-214.
- Lackey, Roger D.: *See*—
Genuit, Luther L.; and Lackey, Roger D., 3,636,541.
- Lackner, Heinrich: *See*—
Daimler, Wolfgang; and Lackner, Heinrich, 3,654,203.
- Daimler, Wolfgang; and Lackner, Heinrich, 3,668,098.
- Lacombat, Michel: *See*—
Marcy, Raymond; Bouygues, Jean; and Lacombat, Michel, 3,692,413.
- LaCombe, Donald J.; and Babcock, Guy L., to General Electric Company. Composite integrated circuits including semiconductor chips mounted on a common substrate with connections made through a dielectric encapsulator. 3,679,941, 7-25-72, Cl. 317-101.00a.
- Lacovich, Rodolfo L.; and Schoijett, Horacio N. Process for decorating pottery. 3,642,551, 2-15-72, Cl. 156-89.
- Lacoste, Jean; and Protard, Philippe. Enclosure for an ogival shell. 3,631,969, 1-4-72, Cl. 206-3.
- Lacoste, Roger G.: *See*—
Wiley, Morris A.; Lacoste, Roger G.; Henry, Clemence J.; and Waldbillig, James O., 3,640,872.
- Lacourge, Michel, to Saint-Gobain, mesne. Batch material for vitreous manufactures. 3,682,666, 8-8-72, Cl. 106-52.000.
- LaCroce, Leonard Thomas, to American Can Company. Full-open end closure provided with distortion resistant shoulder in counter-sink wall. 3,555,091, 4-11-72, Cl. 220-54.
- Lacroix, Armand Jean-Baptiste: *See*—
Bauger, Louis Jules; and Lacroix, Armand Jean-Baptiste, 3,633,361.
- Lacroix, E.: *See*—
Maury, Louis, 3,633,511.
- Lacroix, Flora L. Clothing sleeve. 3,654,632, 4-11-72, Cl. 2-125.
- Lacroix, Philippe: *See*—
Vergne, Jean; Solaux, Leon; Robinet, Jean-Claude; and Lacroix, Philippe, 3,676,390.
- Lacroux, Gerard: *See*—
Margrain, Pierre; and Lacroux, Gerard, 3,694,907.
- Lacy, James G.; and Byrne, John V., to Braun, Anton. Electrical apparatus for initiating combustion in free piston engines. 3,673,999, 7-4-72, Cl. 123-149.00h.
- Lacy, M. L., Ltd.: *See*—
Lacy, Mount Lee, 3,674,344.
- Lacy, Mount Lee, to Lacy, M. L., Ltd. Light energy absorbing and filtering device for a motorcycle helmet. 3,674,344, 7-4-72, Cl. 350-312.000.
- Ladany, Ivan, to RCA Corporation. Liquid phase double epitaxial process for manufacturing light emitting gallium phosphide devices. 3,647,579, 3-7-72, Cl. 148-171.
- Ladany, Shaul. Turning apparatus. 3,651,721, 3-28-72, Cl. 82-1.
- Ladany, Shaul. Device for the graphical solution of simultaneous equations. 3,685,724, 8-22-72, Cl. 235-61.00b.
- Ladco Enterprises Limited: *See*—
Rausing, Gad Anders, 3,682,097.
- Rausing, Gad Anders, 3,706,260.
- Ladd, Blaine K. Bench jig for skis. 3,642,269, 2-15-72, Cl. 269-40.
- Ladd, Fred; and Song, Jung Hoon, to Color Systems, Inc. Method for converting black-and-white films to color films. 3,705,762, 12-12-72, Cl. 352-38.000.
- Ladd Research Industries, Inc.: *See*—
Porter, John H., 3,649,948.
- Porter, John H.; and Murray, David B., 3,686,958.
- Porter, John Halsted; and Ladd, William Alexander, 3,663,273.
- Ladd Tool Company, Inc., mesne: *See*—
Helderman, James F., 3,665,583.
- Ladd, William Alexander: *See*—
Porter, John Halsted; and Ladd, William Alexander, 3,663,273.
- Ladenberger, Volker: *See*—
Bronstert, Klaus; Ladenberger, Volker; and Fahrback, Gerhard, 3,673,281.
- Ladenzon, Boris Yakovlevich; and Filatov, Rafail Alexandrovich. Hydraulic time relay for hydraulic systems. 3,656,404, 4-18-72, Cl. 91-38.
- Ladewig, Gerhard, to Werkzeugmaschinenfabrik Adolf Waldrich Coburg. Cross-slide of a combination tool machine, in particular planing and grinding machine. 3,653,159, 4-4-72, Cl. 51-5.
- Ladewig, Glen R.: *See*—
Gammill, Benny B.; Ladewig, Glen R.; and Ham, George E., 3,634,341.
- Ladin, Eli M.; Kegerise, Harry L.; and Adams, John S., to Federal-Mogul Corporation. Clutch release bearing. 3,674,357, 7-4-72, Cl. 308-233.000.
- Ladine, Duane A. Data monitoring servo. 3,691,845, 9-19-72, Cl. 73-432.000.
- Ladish Co.: *See*—
Werra, Bruno H., 3,633,607.
- Zimmerly, Robert D., 3,672,791.
- Ladkin, Derek: *See*—
Kendall, John George Leonard; and Ladkin, Derek, 3,707,421.
- Ladney, Michael, Jr.: *See*—
Best, William J., 3,677,792.
- Wild, Robert G., 3,655,549.
- Lado, Ernest A., to Nichols Engineering & Research Corporation. Production of refractory materials. 3,645,514, 2-29-72, Cl. 263-29.
- Lado, William J., to Pettibone Corporation. System for automatically paying-out line proportional to extension of crane boom. 3,701,439, 10-31-72, Cl. 212-55.000.
- LaDoudure Electrique Autogene, Procides Arcos: *See*—
De Haack, Robert Jean, 3,662,144.
- Laedlein, Denis Jacques: *See*—
Dorier, Bernard Louis Marcel; and Laedlein, Denis Jacques, 3,680,113.
- Manuali, Bertrand Claude Marcel Jean; Douillet, Robert; and Laedlein, Denis Jacques, 3,648,114.
- Laenen, Nicholas M.; and Cooper, James M., to NRM Corporation. Tire curing press. 3,640,653, 2-8-72, Cl. 425-33.
- Laeral, Asmund S. Respiratory mask. 3,695,264, 10-3-72, Cl. 128-145.000.
- Laerdal, Asmund S. Stretchers. 3,689,945, 9-12-72, Cl. 5-82.000.
- Laerdal, Asmund Sigurd. Suction apparatus. 3,665,919, 5-30-72, Cl. 128-277.
- Laerman, Lothar; and Schenk, Robert J., to Singer Company, The. Packaging structure having cooling means for a multiplicity of hermetic modules for integrated circuit chips. 3,706,010, 12-12-72, Cl. 317-100.000.
- Laermer, Lothar: *See*—
Rathjen, J. Fred; and Laermer, Lothar, 3,648,113.
- Laessig, Rudolf R., to General Electric Company. Centrifugal pump. 3,647,314, 3-7-72, Cl. 415-206.
- Laessig, Rudolf Reinhold, to General Electric Company. Thermo-static flow controller. 3,687,365, 8-29-72, Cl. 236-99.000.
- Laevosan-Gesellschaft Chem. Pharm. Industrie Frank & Dr. Freudl: *See*—
Beran, Wilhelmine, 3,706,727.
- Holzer, Karl, 3,706,732.
- Nitsch, Ernst; and Muhlbock, Siegfried, 3,707,534.
- Lafant Research Company: *See*—
Lauster, Frederick L.; and Fantle, Sheldon W., 3,651,207.
- Lauster, Frederick L., 3,651,208.
- Lafay, Regis: *See*—
Wiegandt, Herbert Frederick; and Lafay, Regis, 3,662,562.
- Lafaye, Jean Francis: *See*—
Chene, Marcel; Quiles, Jean Pierre; and Lafaye, Jean Francis, 3,657,066.
- Laff, Robert A.: *See*—
Cuomo, Jerome J.; and Laff, Robert A., 3,697,343.
- Lafferty, James M., to General Electric Company. Sublimation getter pump with cathode trigger means. 3,694,691, 9-26-72, Cl. 315-108.000.
- Lafferty, Tom. Vehicle washing system. 3,684,184, 8-15-72, Cl. 239-311.000.
- Lafferty, William L., Jr.: *See*—
Durkin, Joseph A.; Estes, John H.; and Lafferty, William L., Jr., 3,652,709.
- Laffont, Maurice, to Societe Nationale des Petroles d'Aquitaine. Independent drilling rig for articulated platform. 3,645,103, 2-29-72, Cl. 61-46.5.
- Lafille, Claude, to Etablissements Clin-Byla. Thioesters of steroids. 3,702,333, 11-7-72, Cl. 260-397.450.
- Lafitte, Rene J. Process and apparatus to calculate and measure the flow of a gaseous fluid. 3,683,692, 8-15-72, Cl. 73-204.000.
- Laflamme, Albert: *See*—
Beaulieu, Alexandre J.; and Laflamme, Albert, 3,662,284.
- LaFleur, Arthur E. Method of forming product-filled bag. 3,660,959, 5-9-72, Cl. 53-14.
- LaFleur, Clovis L., to Schlumberger Technology Corporation. Methods and apparatus for acoustic logging in cased well bores. 3,696,884, 10-10-72, Cl. 181-5b1.
- Laflaur, Hector. Loose leaf binding mechanism. 3,706,502, 12-19-72, Cl. 402-17.000.
- LaFollette, Jack W.: *See*—
Glos, Edmond A., II, 3,643,803.
- Lafon, Louis, to Societe Anonyme dite: ORSYMONDE. Mandelamide derivatives and processes for preparing the same. 3,652,595, 3-28-72, Cl. 260-340.5.
- Lafon, Louis, to Societe Anonyme dite: Orsymonde. Novel non-molipemiant agents. 3,686,271, 8-22-72, Cl. 260-471.00r.
- Lafon, Louis, to Societe ORSYMONDE. 2,4,6-Trihydroxy chalcone derivatives. 3,686,319, 8-22-72, Cl. 260-590.000.
- Lafon, Victor, to Societe Anonyme dite: Orsymonde. Phloroglucinol derivatives. 3,655,776, 4-11-72, Cl. 260-613.

- LaFont, Guy, to Schlumberger Technology Corporation. Telemetry system incorporating synchronization of receiver with transmitter. 3,707,700, 12-26-72, Cl. 340-18.000.
- Lafont, Maurice Louis, to Societe Anonyme dite: Francelec. Electric connector. 3,644,871, 2-22-72, Cl. 339-46.
- Laforest, Jean; and Milton, Pierre, to Rhone-Poulenc S.A. Dialysers and spacer frames therefor. 3,703,466, 11-21-72, Cl. 210-321.000.
- Laforest, Pierre: *See*—
Gagnon, Pierre; and Laforest, Pierre, 3,701,409.
- Lafortune, Normand: *See*—
Macone, Frederick W.; and Lafortune, Normand, 3,687,273.
- Lafrance, Jean C.: *See*—
Lucas, Edward J.; and Lafrance, Jean C., 3,664,268.
- Lagain, Georges. Apparatus for driving a sheath at variable and automatically adjustable speed in a machine for making plastic bags. 3,645,430, 2-29-72, Cl. 226-40.
- Lagally, Paul, to United States of America, Navy. Bearings comprising polyolefins and an imine modified carbon black compound. 3,697,425, 10-10-72, Cl. 252-12.000.
- Lagally, Paul, to United States of America, Navy. Polyolefins containing an imine modified carbon black compound. 3,697,476, 10-10-72, Cl. 260-41.00r.
- Lagally, Ralph W.: *See*—
Joyce, Thomas P., Jr.; Lagally, Ralph W.; and Schulz, Johann G. D., 3,671,579.
- Lagana, Joseph A., to Chandler Evans Inc. Supersonic diverter. 3,690,337, 9-12-72, Cl. 137-81.500.
- Lagarde, Roe H.; and Murphy, Clarke, Jr., to Bliss, E. W., Company. Connector for flat woven tape. 3,653,098, 4-4-72, Cl. 24-114.5.
- Lage, Jaime Richard, to Haskett, F. Barry. Device for continuous mixing of materials. 3,661,364, 5-9-72, Cl. 259-95.
- Lagerberg, Per Goran Olof: *See*—
Bergqvist, Mats Soren; Kallstrom, Olof Krister; Lagerberg, Per Goran Olof; and Okvist, Nils Axel Gunnar, 3,664,825.
- Lagercrantz, Bengt Ake; and Andersen, Kare, to Telefonaktiebolaget L M Ericsson. Anhydrous electrolyte for electrolytic capacitors. 3,696,037, 10-3-72, Cl. 252-62.200.
- Lagergren, Hans Ragnar: *See*—
Eriksson, Jan Christer; Lagergren, Hans Ragnar; Johansson, Anders Lennart; and Gillberg, Eisa, 3,634,123.
- Lagerqvist, Roger; and Stenlund, Stig, to Monsun-Tison AB. Device in fluid-containing cylinders having a fluid-operated piston. 3,677,141, 7-18-72, Cl. 91-394.000.
- Lagerstrom, Robert C.; and Berry, Willis E., to National Union Electric Corporation. Nozzle height adjusting mechanism for a suction cleaner. 3,683,448, 8-15-72, Cl. 15-354.000.
- Lagerstrom, Robert C., to National Union Electric Corporation. Shag rug tool. 3,685,089, 8-22-72, Cl. 15-369.000.
- Lagerwey, Johannes; Ijlstra, Hendrik J.; and Andriessse, George F. J., to Reactor Centrum Nederland (Stichting). Vibration dampers for rapidly rotating bodies of revolution. 3,672,472, 6-27-72, Cl. 188-1.
- Lagier, Gary G.; and Fuess, Raymond L., to Omnific Research and Development Center, Inc. Metal recovery apparatus and method. 3,658,683, 4-25-72, Cl. 204-272.
- Laglenne, Renee: *See*—
Katz, Solomon; and Laglenne, Renee, 3,646,214.
- Lagler, Karl R.: *See*—
Kerr, Archie F.; and Lagler, Karl R., 3,652,819.
- Lagofun, Guy Jean Theodore, to Etat Francais represents par le Ministre charge de la Defense Nationale Delegation Ministerielle pour l'Armement. Arc igniter circuit closing device and methods of operation thereof. 3,704,354, 11-28-72, Cl. 200-144.00r.
- Lagos, Costas, to Sylvania Electric Products, Inc. Phosphor and method of making. 3,647,706, 3-7-72, Cl. 252-301.4.
- Lagos, Costas C.; Fowler, Richard A.; and Thomas, Martha J. B., to Sylvania Electric Products, Inc. Process for reclaiming yttrium orthovanadate phosphors. 3,668,140, 6-6-72, Cl. 252-301.40r.
- Lagoutte, Pierre, to Filtres Vernay. Moving bed apparatus for the treatment of fluid. 3,667,604, 6-6-72, Cl. 210-136.
- Lagoutte, Serge, to Societe d'Etudes Verrieres Appliquees (S.E.V.A.). Apparatus for forming hollow bodies. 3,635,636, 1-18-72, Cl. 425-326.
- Lagoutte, Serge, to Societe d'Etudes Verrieres Appliquees (S.E.V.A.). Apparatus for forming hollow bodies. 3,685,938, 8-22-72, Cl. 425-185.000.
- Lagow, Richard J.: *See*—
Margrave, John L.; Badachhpe, Ramachandra B.; Wood, James L.; and Lagow, Richard J., 3,674,432.
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Lower, John H.; and Lagus, Peter, 3,695,611.
- Laguzzi, Umberto. Benzylisoquinolinic solutions and method of making the same. 3,692,910, 9-19-72, Cl. 424-258.000.
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- Lahde, Reinhard N., to Lockheed Aircraft Corporation. Self-starting for D.C. motors. 3,644,809, 2-22-72, Cl. 318-138.
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Sassmannshausen, Guenter; and Lahme, Norbert, 3,701,691.
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Blaser, Don E.; and Lahn, Gerard C., 3,694,346.
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Dennis, Gene Patrick; and Lai, Cheng Ying, 3,651,764.
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Ackerman, James H.; and Laidlaw, George M., 3,655,752.
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Ogden, Harry; Laidlaw, Neil Rutherford; and Bradford, William Clarke, 3,639,766.
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Maxwell, Hennis M.; Sowers, John E.; and Laidman, John Neil, 3,639,142.
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Runge, Wallace F.; and Laine, Robert E., 3,655,781.
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Howe, Alan Colin Scott, 3,667,737.
Howe, Alan Colin Scott, 3,679,445.
- Laing, John, Research & Development Limited: *See—*
Lowen, Michael David; and Mountford, Alan Reginald, 3,636,833.
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Workman, Larry D.; Laing, Ralph R.; Lewis, J. Stephen; and Von Winckelmann, Emil H., 3,659,377.
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Bunger, Mills E., 3,665,714.
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Foulard, Jean; and Galey, Jean, 3,689,048.
- L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude: *See—*
Eluard, Robert, 3,680,288.
Le Mounier, Jean, 3,674,213.
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Aupoix, Marcel; and Culand, Andre, 3,694,914.
- Birr, Jacques; Colson, Georges; Abel, Bernard; and Charbonnier, Patrice, 3,639,178.
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- Carbonell, Emile, 3,633,373.
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- Domine, Daniel; and Jay, Leon, 3,638,398.
- Goumy, Daniel, 3,670,093.
- Ivernel, Alix, 3,649,206.
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- Manethou, Jean, 3,646,310.
- Monnier, Jean-Pierre, 3,646,933.
- Petit, Roland; Louise, Jean; Parent, Jean-Claude; and Hay, Leon, 3,689,212.
- Prost, Roger, 3,688,514.
- Renard, Michel; Cardinne, Philippe; and Manhes, Bernard, 3,702,956.
- Simonet, Guy A.; and Lesur, Pierre F., 3,702,525.
- Smith, Leon; Calvert, David W.; Robert, Andre; and Viallet, Andre, 3,657,065.
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- Thibault, Jean-Jacques; and Carle, Jacques, 3,668,881.
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Armstrong, William S., Jr.; Edwards, Webster H.; Laird, Joseph P.; and Vining, Roy H., 3,690,771.
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Barkey, Kenneth T.; and Laird, Lloyd I., 3,651,172.
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Lapeyre, James M., 3,685,098.
Lapeyre, James M.; and Courret, Robert F., 3,704,484.
Lapeyre, James M.; and Courret, Robert F., 3,706,113.
- Laizier, Jacques: *See—*
Icre, Pierre; and Laizier, Jacques, 3,655,965.
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Cook, Gordon Henry; and Lajrent, Francois, 3,705,759.
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Couture, Roger A.; and Lajza, John J., Jr., 3,642,549.
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Koberstein, Edgar; and Lakatos, Eduard, 3,669,906.
- Lakatos, Laszlo: *See—*
Baranyi, Jozsef; and Lakatos, Laszlo, 3,660,034.
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Quain, Wilbur C., 3,670,757.
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Aronberg, Lester, 3,660,127.
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- Lakeway Chemicals, Inc.: *See—*
Kling, Edward E.; Cousino, James L.; and Frens, James A., 3,663,412.
- Lakewood Industries, Inc.: *See—*
Schubeck, Joseph J., 3,704,876.
- Lakewood Manufacturing Co.: *See—*
Peplin, Edward D., 3,683,896.
- Lakhani, Kishor M.: *See—*
Funk, John W.; and Lakhani, Kishor M., 3,670,647.
- Lakin, Harold: *See—*
Bristol, Thomas R.; Lakin, Harold; and Renga, Fred L., 3,674,142.
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Dobo, Janos; Somogyi, Agnes; and Lakner, Endre, 3,677,967.
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Haugwitz, Rudiger D.; and Lakshmi, Venkatachala, 3,678,066.
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- Lalinga, Nicholas: *See—*
Tepper, Sidney; and Lalinga, Nicholas, 3,672,092.
- Lalley, Donald P., to March Manufacturing Company, mesne. Pump impeller molding apparatus. 3,700,372, 10-24-72, Cl. 425-159,000.
- Lallinger, Georg: *See—*
Thomanek, Franz R.; Lallinger, Georg; and Rosner, Hermann, 3,661,086.
- Lally, Eugene Brooks: *See—*
Mathews, Victor M., Jr.; Nelson, Richard P.; and Lally, Eugene Brooks, 3,642,046.
- Lally, Joseph E.; and Tojza, Roman A., to Bally Manufacturing Corporation. Rotating reel game with masking shutter. 3,642,287, 2-15-72, Cl. 273-143.
- L'Aluminium Francais: *See—*
Baumann, Bernard, 3,674,605.
- Lam, Hung-Kei H.: *See—*
Bell, Norman; and Lam, Hung-Kei H., 3,676,077.
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Lamar, Robert L., 3,653,538.
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- Lamar, Robert L.; deceased: *See—*
Lamar, Robert L., 3,653,538.
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Eads, Ewin A., 3,650,696.
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Steigman, Peter Edward; Badcock, Frank Robert; and Lamb, David Robert, 3,686,544.
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Thompson, Earl A., 3,690,956.
Thompson, Earl A., 3,690,957.
Thompson, Earl A., 3,690,958.
Thompson, Earl A., 3,690,959.
Van Deberg, Walter H.; and Thompson, Earl A., 3,688,830.
- Lamb, F. Jos., Company, mesne: *See—*
Thompson, Earl A., 3,704,746.
- Lamb, Frank E.: *See—*
Bourne, Douglas J.; and Lamb, Frank E., 3,656,892.
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Li, Hsin Lang; Lamb, George Edwin Robert; and Prevorsek, Dusan Ciril, 3,686,722.
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Huska, Paul A.; Meissner, Herman P.; and Lamb, Thomas J., 3,647,373.
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- Lamb, William Doyle: *See—*
Butcher, James; Gyllstrom, Richard G.; and Lamb, William Doyle, 3,670,760.
- Lamb-Weston, Inc.: *See—*
Davidson, Arthur R.; Haubner, John E.; and White, George A., 3,642,495.
Haubner, John E., 3,643,721.
Schoch, Thomas J.; and Sloan, Jerry L., 3,669,686.
Sloan, Jerry L., 3,644,129.
Wilder, Curtis J., 3,649,305.
- Lambach, Rolf: *See—*
Schweinfurth, Hans; and Lambach, Rolf, 3,687,420.
- Lambe, Keith Albert Dale: *See—*
Bowen, Dennis Herbert; Sambell, Ronald Alfred James; Lambe, Keith Albert Dale; and Mattingley, Neville John, 3,681,187.
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Bestenreiner, Friedrich; Lambeir, Silvan Rene; and Meeussen, Louis Achilles, 3,642,349.
- Lamberg Industrial Research Association: *See—*
Ruddell, James Nelson; and Todd, Herbert Alexander Conway, 3,636,185.
- Lambert, Andre Simon Georges: *See—*
Goursolas, Anne-Marie Jeanne; and Lambert, Andre Simon Georges, 3,691,514.
- Lambert, Andre Simon Georges, to Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique 'Alcatel'. Apparatus for determining the direction of propagation of a plane wave. 3,651,479, 3-21-72, Cl. 340-172,5.

Lambert, Arthur H., to Comco Supply, Inc. Apparatus for trimming electrical resistors. 3,685,209, 8-22-72, Cl. 51-14.000.

Lambert, Bernard, to Ethylene Plastique. Photodegradable polyolefins. 3,679,777, 7-25-72, Cl. 260-897.00a.

Lambert Brake Corporation, mesne: See—

Hahn, Emil H., 3,651,897.

Lambert, C. J.: See—

Chinlund, Joseph F.; and Lambert, C. J., 3,662,570.

Lambert, Daryl Gene. Screen printing machine with single-sided rack-and-pinion drive. 3,650,208, 3-21-72, Cl. 101-123.

Lambert, Edward Henry: See—

Michael, Tantrimudalige Anthony Don; and Lambert, Edward Henry, 3,683,908.

Lambert, George M., to Reliance Electric Company. Combination brake and break-over mechanism for variable speed control mechanism. 3,657,937, 4-25-72, Cl. 74-230.17.

Lambert, Harold: See—

Miller, Bernard; Lambert, Harold; and Meiser, Charles H., Jr., 3,667,277.

Lambert, Jack R. Spirograph mouthpiece. 3,659,589, 5-2-72, Cl. 128-2.08.

Lambert, Jacques, to Flaminare Marcel Quercia. Fuel reservoirs, especially for gas-lighters. 3,678,695, 7-25-72, Cl. 62-50.000.

Lambert, Jacques, to Societe Flaminare Marcel Quercia. Lighters, especially gas lighters. 3,679,346, 7-25-72, Cl. 431-130.000.

Lambert, James B.; Seiden, Lewis J.; and Morgan, Henry A., to T-Bar Incorporated. Switch having opposed dome and flexible bifurcated contacts. 3,689,856, 9-5-72, Cl. 335-133.000.

Lambert, James H., to Kehr, Frank L. Valve spring tester. 3,638,486, 2-1-72, Cl. 73-161.

Lambert, Kenneth W.; and Krichbaum, Donald W., to Dunham-Bush, Inc. Weatherproof enclosure. 3,675,379, 7-11-72, Cl. 52-79.000.

Lambert, Lucian T. Combination of a rapidly removable lawn edger and a rotary lawnmower. 3,686,839, 8-29-72, Cl. 56-11.600.

Lambert, Robert E.; Beal, Edward W.; and Bacewicz, Anthony J., to Connecticut International Corporation. Optical failsafe airplane landing guidance system. 3,701,969, 10-31-72, Cl. 340-25.000.

Lambert, Robert L., Jr.: See—

Seyferth, Dietmar; and Lambert, Robert L., Jr., 3,658,861.

Lambert, Robert R., to Air Factors, Inc. Spaced parallel panel air diffuser assembly. 3,688,680, 9-5-72, Cl. 98-40.00d.

Lambert, Robert R., to Air Factors, Inc. Suspended ceiling framework supported troffer air distribution system. 3,690,243, 9-12-72, Cl. 98-40.00p.

Lambert, Ronald D.: See—

Fall, Maxwell S.; and Lambert, Ronald D., 3,687,505.

Lambert, Ronald F.: See—

Bloom, Stanley M.; and Lambert, Ronald F., 3,644,530.

Buckler, Sheldon A.; and Lambert, Ronald F., 3,640,713.

Lambert, Stephen Anthony, to Digital Information Storage Corporation. Magnetic information disk equipment. 3,662,360, 5-9-72, Cl. 340-174.1.

Lambert, William J. Random access article selection of system and apparatus therefor. 3,672,497, 6-27-72, Cl. 209-80.500.

Lamberti, Vincent; and Konort, Mark D., to Lever Brothers Company. Detergent compositions containing oxydisuccinic acid salts as builders. 3,635,830, 1-18-72, Cl. 252-152.

Lamberti, Vincent; and Sepulveda, Ralph R., to Lever Brothers Company. Fabric softener. 3,644,203, 2-22-72, Cl. 252-8.75.

Lamberti, Vincent; and Lemaire, Henry, to Lever Brothers Company. Antimicrobial compositions and methods of use. 3,652,764, 3-28-72, Cl. 424-235.

Lamberti, Vincent; and Winnegrad, Ronald R., to Lever Brothers Company. Detergent compositions containing the ethers and esters of tetrahydrofuran and tetrahydropyran. 3,668,134, 6-6-72, Cl. 252-89.000.

Lamberti, Vincent; Konort, Mark D.; and Weil, Ira, to Lever Brothers Company. Detergent compositions. 3,692,685, 9-19-72, Cl. 252-89.000.

Lamberti, Vincent; Lemaire, Henry; and Cahn, Arno, to Lever Brothers Company. Anionic detergent compositions containing foam boosting succinic acid derivatives. 3,707,511, 12-26-72, Cl. 252-546.000.

Lambertson, Glen R.: See—

Avery, Robert T.; Lambertson, Glen R.; and Pike, Chester D., 3,702,450.

Lamberty, John M.: See—

Pitzer, Thomas D.; Metzger, John A.; and Lamberty, John M., 3,642,188.

Lambertz, Hans-Reinhard: See—

Waschulewski, Hans-Georg; Baumers, Hans; and Lambertz, Hans-Reinhard, 3,636,834.

Lambeth, Dennis Ernest, to Dowty Technical Developments, Limited. Hydraulic apparatus. 3,636,820, 1-25-72, Cl. 91-499.

Lambie, John Walkinshaw. Sealing devices. 3,693,986, 9-26-72, Cl. 277-188.000.

Lambiot, Jerry F.: See—

Hinckley, Paul D.; Klender, Gerald J.; and Lambiot, Jerry F., 3,686,362.

Lambiris, Theodore, to General Motors Corporation. Transmission gearshift indicator. 3,695,215, 10-3-72, Cl. 116-124.00r.

Lamborghini, Ferruccio, to Lamborghini Oleodinamica S.p.A. Valve for distributing fluid to a system of fluid-actuated machines. 3,635,244, 1-18-72, Cl. 137-596.

Lamborghini Oleodinamica S.p.A.: See—

Lamborghini, Ferruccio, 3,635,244.

Lambot, Honore Joseph. Cable-type coring apparatus for retrieving underground specimens. 3,667,558, 6-6-72, Cl. 175-246.000.

Lamboy, Osvaldo; and Smith, Daniel J., to Thiokol Chemical Corporation. Curable compositions for making high temperature stable cured -SH terminated polysulfide polymer. 3,635,880, 1-18-72, Cl. 260-45.7.

Lambrecht, Ralph E., to Outboard Marine Corporation. Marine propeller with resilient hub structure. 3,701,611, 10-31-72, Cl. 416-134.000.

Lambrecht, Richard A., to Union Carbide Corporation. System for molding electronic components. 3,650,648, 3-21-72, Cl. 425-129.

Lambrechts, Jan Bernard, to Agfa-Gevaert. Method of recording and transferring design indicia. 3,674,588, 7-4-72, Cl. 156-230.000.

Lamendin, Arthur; Matel, Bernard; and Dhenin, Jean, to Societe de Produits Chimiques Marles-Kuhlmann. Process for preparing simple and substituted morpholines. 3,654,271, 4-4-72, Cl. 260-247.

Lamensdorf, David: See—

Ross, Gerald F.; and Lamensdorf, David, 3,659,203.

Lamer, Gerald P.; and Vaerk, Lembit, to Case, J. I., Company. Safety control for load line. 3,658,188, 4-25-72, Cl. 212-39.

Lamer, Gerald P.; and Thiele, Duane L., to Case, J. I., Company, mesne. Mobile crane with jib extension. 3,698,569, 10-17-72, Cl. 212-144.000.

Lamin, Vladimir Ivanovich: See—

Solntsev, Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.

Laminated Wood Products Co.: See—

Huling, Fred W., Jr., 3,691,929.

Laming, Frank P.; Levine, Solomon L.; and Sincerbox, Glenn T., to International Business Machines Corporation. Hologram life extension. 3,695,879, 10-3-72, Cl. 96-48.000.

Lamison, Vernon L.: See—

Byrns, Robert E.; Gouldthorpe, Hugh W.; and Lamison, Vernon L., 3,693,117.

Lamkemeyer, Klaus. Device for charging furnaces with moulds. 3,659,729, 5-2-72, Cl. 214-25.

Lamkin, Clifford L. Crankcase vapors condensor. 3,664,314, 5-23-72, Cl. 123-119.00b.

Lamm, Bo Robert: See—

Brandstrom, Arne Eloff; Carlsson, Per Arvid Emil; Carlsson, Stig Ake Ingemar; Corrodi, Hans Rudolf; Ek, Lars; Lamm, Bo Robert; and Ablad, Bengt Arne, 3,674,840.

Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Oil tank for a rotary piston internal combustion engine with dry-sump lubrication. 3,638,760, 2-1-72, Cl. 184-6.23.

Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Radial seal for a rotary piston internal combustion engine. 3,667,877, 6-6-72, Cl. 418-121.

Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Rotary piston internal combustion engine. 3,685,922, 8-22-72, Cl. 418-113.000.

Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Rotary piston internal combustion engine. 3,703,163, 11-21-72, Cl. 123-8.090.

Lamm, Merritt Otis, to Ken-Bar Tool & Engineering, Inc. Metal forming method and apparatus. 3,685,340, 8-22-72, Cl. 72-398.000.

Lamm, William R.: See—

Bengtson, Barbara L.; and Lamm, William R., 3,654,080.

Dworschack, Robert G.; and Lamm, William R., 3,666,628.

Lamme, Seth Eric Valentin: See—

Lindahl, Bo Oscar; Lamme, Seth Eric Valentin; and Hallenrud, Sven Josef Harry, 3,702,734.

Lammers, Arthur R.: See—

Guyton, James H.; and Lammers, Arthur R., 3,695,552.

Lammert, Charles W.: See—

Charleville, Joseph L.; De Tienne, Mart E.; and Lammert, Charles W., 3,670,998.

Lamneck, Karlheinz: See—

Kulick, Bruno; and Lamneck, Karlheinz, 3,703,217.

Lamola, Angelo Anthony: See—

Chandross, Edwin Arthur; Fork, Richard Lynn; Lamola, Angelo Anthony; and Tomlinson, Walter John, III, 3,668,663.

Lamont, Peter: See—

Laur, Thomas L.; and Lamont, Peter, 3,635,874.

Lamore, Herbert T., to Holley Carburetor Company. Air valve carburetor. 3,695,589, 10-3-72, Cl. 261-23.00a.

Lamorlette, Paul, to L'Eclairage des Vehicules Sur Rail (E.V.R.). System for supplying electric energy to an electric traction railway vehicle. 3,659,187, 4-25-72, Cl. 322-26.

Lamort, Pierre. Apparatus for clarifying liquids contaminated by materials in suspension, more particularly waste water from paper machines. 3,647,071, 3-7-72, Cl. 210-107.

Lamort, Pierre Louis. Apparatus for preparing paper pulp or any other product of a similar nature, from bales of cellulose or raw materials for recovery such as waste paper. 3,682,398, 8-8-72, Cl. 241-46.170.

Lamorte, Michael F.: See—

Caplan, Sandor; and Lamorte, Michael F., 3,701,047.

Lamorte, Michael F., to RCA Corporation. Method of making semiconductor devices. 3,697,336, 10-10-72, Cl. 148-171.000.

Lamp, Paul F., to Electone, Inc. Hearing aid switch. 3,641,288, 2-8-72, Cl. 200-52.

Lamp, Paul F., to Electone, Inc. Digital hearing aid gain analyzer. 3,692,959, 9-19-72, Cl. 179-175.10a.

Lamp, William F.: See—

Weisselberg, Edward B.; Worden, George M., Sr.; Lamp, William F.; and Lane, Alexander M., 3,681,855.

Lamparsky, Dietmar; and Schudel, Peter, to Givaudan Corporation. Novel caranone derivatives, perfume compositions containing same process for their preparation. 3,660,489, 5-2-72, Cl. 260-586.

Lamparsky, Hans Dietmar; and Marbet, Roman, to Givaudan Corporation. Unsaturated hydroxy ketones. 3,670,026, 6-13-72, Cl. 260-592.000.

Lamparter, Hansruedi; and Spescha, Gelli Anton, to Rieter Machine Works, Ltd. Apparatus for controlling the temperature of an inductively heated draw roll. 3,686,460, 8-22-72, Cl. 219-10.770.

Lampathakis, Kyriakose: See—

Seelbach, Walter C.; and Lampathakis, Kyriakose, 3,706,130.

Lamcraft Tool & Mold, Inc.: See—

Stanciu, Virgil V., 3,638,673.

Lampe, Hans H.: See—

Knauff, Gunter; Koederitz, Fritz; Painke, Helmut; Reichl, Leopold; Lampe, Hans H.; Vachenaue, Robert; Vogt, Edwin; and Weber, Hermann, 3,659,273.

Lampe, Warren R., to General Electric Company. Room temperature vulcanizable silicone rubber composition. 3,696,090, 10-3-72, Cl. 260-18.00s.

Lampert, Rolf: See—

Puhahn, Werner; and Lampert, Rolf, 3,650,086.

Lamph, Ara Norman: See—

Van Wagenen, Normal L.; and Lamph, Ara Norman, 3,702,143.

Lamphere, David A.; and Stuart, Douglas E., to Simmonds Precision Products, Inc. Mass fuel flow measurement system. 3,635,084, 1-18-72, Cl. 73-231.

Lamphere, Jack C.: See—

Nankee, Robert J.; Lamphere, Jack C.; and Nelson, Rodney A., 3,686,024.

Lampi, Rauno A.; Hu, Kwong H.; and Osborne, Richard F., to United States of America, Army. Infrared radiometric detection of seal defects. 3,678,276, 7-18-72, Cl. 250-83.30h.

Lamping, Robert F., to Modern Engineering Company, Inc. High pressure regulator. 3,675,678, 7-11-72, Cl. 137-505.220.

Lampkin, Curt M., to Baldwin, D. H., Company. Analog to digital encoder. 3,688,302, 8-29-72, Cl. 340-347.00p.

Lampman, William T.; and Wade, Charles H., to Whirlpool Corporation. Dishwasher. 3,665,943, 5-30-72, Cl. 134-200.000.

Lampredi, Aurelio: See—

Bertinetti, Emilio Alberto; and Lampredi, Aurelio, 3,651,705.

Lampredi, Aurelio, to Fiat Societa per Azioni and Cigala & Bertinetti S.a.s. Toothed pulleys. 3,696,685, 10-10-72, Cl. 74-230.300.

Lampson, George P.; Tytell, Alfred A.; Field, Arthur K.; and Hilman, Maurice R., to Merck & Co., Inc. Reduction of molecular weight in polynucleotides using ultrasonic radiation. 3,666,646, 5-30-72, Cl. 204-160.1.

Lamson & Sessions Co., The: See—

Breed, Arthur R., 3,701,372.

Perison, Ronald C., Sr., 3,635,435.

Lamson, Byron A.: See—

Grant, David C.; and Lamson, Byron A., 3,675,406.

Lamson, James E.; and Nemetz, Richard C., to Michigan Chemical Corporation. Flame retardant nylon-containing material. 3,682,692, 8-8-72, Cl. 117-137.000.

Lamster, Hal Bernhard: See—

Stone, John Alexander; Lamster, Hal Bernhard; Baker, Charles L.; and Bakiras, Spiro, 3,681,755.

Lamure, Bernard, to Societe Rhodiacta. Tetrahydrotetraazaporphine dyestuffs. 3,637,739, 1-25-72, Cl. 260-314.

Lamure, Bernard, to Societe Rhodiacta. Copolymerizable (alkoxycarbonylphenylazo) phthalocyanine dyestuffs. 3,646,003, 2-29-72, Cl. 260-146.

Lana, Garnet L. Nail screw fastening system. 3,654,832, 4-11-72, Cl. 85-45.

Lanahan, John H.; and Abraham, William W., to Mohawk Industrial Laboratories, Inc. Card sorting device and method. 3,672,498, 6-27-72, Cl. 209-80.500.

Lanahan, John H., to Mohawk Industrial Laboratories, Inc. Disappearing punch. 3,682,033, 8-8-72, Cl. 83-522.000.

Lanahan, John H.; and Abraham, William W., to Mohawk Industrial Laboratories, Inc. Card sorting device. 3,690,457, 9-12-72, Cl. 209-80.500.

Lanahan, John H.; and Abraham, William W., to Mohawk Industrial Laboratories, Inc. Information storage cards. 3,704,781, 12-5-72, Cl. 209-80.500.

Lanahan, John L., to Mohawk Industrial Laboratories, Inc. Floating decimal coding system. 3,645,438, 2-29-72, Cl. 234-1.

Lanaspeze, Pierre: See—

Tannenberger, Helmut; and Lanaspeze, Pierre, 3,645,786.

Lancaster, Arthur W., to Hi-Way Safti Signal Manufacturing Corporation. Safe-to-pass indicator having portions of indicia flashingly illuminated. 3,683,330, 8-8-72, Cl. 340-107.000.

Lancaster, Edgar D., Jr.: See—

Cricchi, James R.; and Lancaster, Edgar D., Jr., 3,641,511.

Lancaster, James Kenneth; and Yates, David William, to Caludon Engineering Company Limited. Machine tool having rotary and indexible work table. 3,680,439, 8-1-72, Cl. 90-15.100.

Lancaster, Jesse F., to Cooke Engineering Company. Laboratory dispensing apparatus. 3,650,306, 3-21-72, Cl. 141-238.

Lancaster, Jesse F., to Cooke Engineering Company. Multi-circuit switching connector. 3,665,129, 5-23-72, Cl. 200-51.07.

Lancaster, Jesse F., to Cooke Engineering Company, The. Multi-circuit patch plug and jack. 3,692,966, 9-19-72, Cl. 200-51.100.

Lancaster, John Keith: See—

Giltrow, Jeremy Peter; Kinner, George Henry; and Lancaster, John Keith, 3,674,689.

Lancaster, John Kenneth. Container cover. 3,659,756, 5-2-72, Cl. 222-531.

Lancaster, Larry N. Spindle plumbing device. 3,688,485, 9-5-72, Cl. 57-1.00r.

Lancaster, Robert W., to Panhandle Eastern Pipe Line Company. Dies for cutting electrical cable. 3,696,509, 10-10-72, Cl. 30-90.600.

Lancaster, Roy: See—

Kamachi, Shig K.; and Lancaster, Roy, 3,636,979.

Lance, Andrew T.: See—

Kafka, Robert S., 3,635,649.

Lance, Christopher James, 50% to Belknap, Ivan F. Combined wrench and marking device. 3,662,629, 5-16-72, Cl. 81-52.

Lance, Christopher James, 50% to Belknap, Ivan F. Manually operated marking torque wrench. 3,667,327, 6-6-72, Cl. 81-52.400.

Lance, Joseph R., to Westinghouse Electric Corporation. Electromagnetic energy converter for pulsing an implantable blood pump. 3,633,217, 1-11-72, Cl. 3-1.

Lancia, Fredrick N.; and Miller, Gerald L., to Xerox Corporation. Vacuum nozzle to remove agglomerates on a toner applicator. 3,645,618, 2-29-72, Cl. 355-15.

Lancier, Michael: See—

Hans, Rainer; Lancier, Michael; and Becher, Hermann, 3,648,518.

Lancini, Giancarlo, to Gruppo Lepetit, S.p.A. Antibiotic substance defined as rifamycin L. 3,634,403, 1-11-72, Cl. 260-239.3.

Lancor, Joseph H., Jr.: See—

Figge, Erwin E.; Lancor, Joseph H., Jr.; and Lodge, Edward H., 3,669,532.

Lancor, Joseph H., Jr., to Bell & Howell Company. Sound motion picture camera. 3,650,609, 3-21-72, Cl. 352-17.

Lancor, Joseph H., Jr., to Bell & Howell Company. Audio-visual recording and display methods and apparatus. 3,674,346, 7-4-72, Cl. 352-12.000.

Lancsek, Thomas Stephen: See—

Feldstein, Nathan; and Lancsek, Thomas Stephen, 3,666,527.

Lancy Laboratories Inc., mesne: See—

Lancy, Leslie E., 3,682,701.

Lancy, Leslie E., to Lancy Laboratories Inc., mesne. Integrated waste water treatment for reuse after cyanide type plating. 3,682,701, 8-8-72, Cl. 134-13.000.

Land, Cecil E.; and Smith, Willis D., to United States of America, Atomic Energy Commission. Ferroelectric ceramic plate electro-optical light scattering device and method. 3,702,724, 11-14-72, Cl. 350-160.000.

Land, Edwin; Ferrari, Leonard A.; Kagan, Sholly; and McCann, John J., to Polaroid Corporation. Image reproduction system which detects subject by sensing intensity ratios. 3,651,252, 3-21-72, Cl. 178-6.

Land, Edwin, to Polaroid Corporation. Photographic fluid container manufactured by freezing and sealing liquid. 3,695,884, 10-3-72, Cl. 96-76.00c.

Land, Edwin H., to Polaroid Corporation. Integral negative/positive color diffusion transfer process film unit employing in-situ generated visible light-reflecting agent. 3,647,434, 3-7-72, Cl. 96-3.

Land, Edwin H., to Polaroid Corporation. Integral negative/positive color diffusion transfer process film unit employing in-situ generated visible light-reflecting agent. 3,647,435, 3-7-72, Cl. 96-3.

- Land, Edwin H., to Polaroid Corporation. Photographic products, processes and compositions. 3,647,437, 3-7-72, Cl. 96-3.
- Land, Edwin H., to Polaroid Corporation. Film assemblage. 3,651,746, 3-28-72, Cl. 95-19.
- Land, Edwin H., to Polaroid Corporation. Photographic film unit and method of manufacture. 3,652,282, 3-28-72, Cl. 96-76.
- Land, Edwin H., to Polaroid Corporation. Motion-picture system. 3,655,277, 4-11-72, Cl. 352-72.
- Land, Edwin H., to Polaroid Corporation. Compact variable frame viewfinder. 3,664,250, 5-23-72, Cl. 95-44.
- Land, Edwin H., to Polaroid Corporation. Diffusion transfer image receiving sheet with hydrolyzed polymer layer. 3,671,241, 6-20-72, Cl. 96-29,000.
- Land, Edwin H., to Polaroid Corporation. Reflex camera. 3,672,281, 6-27-72, Cl. 95-42,000.
- Land, Edwin H., to Polaroid Corporation. Photographic apparatus. 3,672,283, 6-27-72, Cl. 95-11,000.
- Land, Edwin H., to Polaroid Corporation. Novel photographic products and processes. 3,672,890, 6-27-72, Cl. 96-3,000.
- Land, Edwin H., and Erlichman, Irving, to Polaroid Corporation. Film storage chamber. 3,675,551, 7-11-72, Cl. 95-11,000.
- Land, Edwin H., to Polaroid Corporation. Novel photographic products and processes. 3,682,637, 8-8-72, Cl. 96-76,000.
- Land, Edwin H., and Bellows, Alfred H., to Polaroid Corporation. Folding camera. 3,683,770, 8-15-72, Cl. 95-13,000.
- Land, Edwin H., to Polaroid Corporation. Self-developing camera. 3,683,771, 8-15-72, Cl. 95-13,000.
- Land, Edwin H., to Polaroid Corporation. Method and apparatus for editing motion picture film. 3,684,359, 8-15-72, Cl. 352-38,000.
- Land, Edwin H., to Polaroid Corporation. Photographic diffusion transfer color process and composite film unit for use therein. 3,690,879, 9-12-72, Cl. 96-3,000.
- Land, Edwin H.; Bloom, Stanley M.; and Farney, Leonard C., to Polaroid Corporation. Silver image stabilization with noble metal compounds. 3,704,126, 11-28-72, Cl. 96-29,000.
- Land, Karl M., to Cities Service Oil Company. Method and apparatus for well completion explosive stimulation. 3,690,378, 9-12-72, Cl. 166-299,000.
- Landahl, Carl D.: *See—*
- Klass, Donald L.; and Landahl, Carl D., 3,634,053.
- Klass, Donald L.; and Landahl, Carl D., 3,669,637.
- Landau, Leo: *See—*
- Schoen, William; and Landau, Leo, 3,682,990.
- Landauer, Franz: *See—*
- Bartmann, Wilhelm; Duwel, Dieter; Georgi, Volkmar; Wolf, Erhard; Beermann, Claus; and Landauer, Franz, 3,661,966.
- Landauer, LeRoy, to American Can Company. Electroflow method of electrocoating. 3,658,677, 4-25-72, Cl. 204-181.
- Landbouwwerktuigen-en Machinefabriek H. Visser N.V.: *See—*
- Visser, Herbert, 3,672,453.
- Visser, Herbert, 3,705,629.
- Visser, Herbert, 3,705,630.
- Landbrecht, Franz: *See—*
- Kisselmann, Willy; Rumpelstein, Fritz; Kopf, Paul; and Landbrecht, Franz, 3,639,836.
- Landeborg, Lars E.: *See—*
- Henriksson, Sune Torsten; Muotka, Ragnar Ludvig; and Landeborg, Lars E., 3,649,214.
- Landeborg, Lars Erik; Henriksson, Sune Torsten; and Muotka, Ragnar Ludvig. Braking system for rail vehicles. 3,653,469, 4-4-72, Cl. 188-58.
- Landefeld, Edgar E. Frequency synthesizer method for adding mixed harmonics which correspond to significant digits of the synthesized frequency. 3,644,827, 2-22-72, Cl. 324-79.
- Landel, Robert F.: *See—*
- Moser, Billy G.; and Landel, Robert F., 3,651,008.
- United States of America, National Aeronautics and Space Administration, 3,675,712.
- United States of America, National Aeronautics and Space Administration, 3,706,221.
- Landell, Harper: *See—*
- Komroff, Paul; and Landell, Harper, 3,635,001.
- Landen, Ernest W.: *See—*
- Ryberg, John G.; and Landen, Ernest W., 3,691,762.
- Landen, William James, to Eyelet Specialty Company. Safety closure. 3,659,735, 5-2-72, Cl. 215-9.
- Landen, William James, to Eyelet Specialty Company. Safety-closure device. 3,667,636, 6-6-72, Cl. 215-9,000.
- Landen, William James; and Lundquist, Gunnar, to International Silver Company, The. Brush construction. 3,675,265, 7-11-72, Cl. 15-193,000.
- Landen, William James, to Eyelet Specialty Company. Container construction for a safety closure. 3,680,745, 8-1-72, Cl. 222-570,000.
- Landen, William James, to Eyelet Specialty Company. Safety closure device. 3,682,343, 8-8-72, Cl. 215-9,000.
- Landen, William James; and Lundquist, Gunnar F., to International Silver Company, The. Brush making apparatus. 3,698,770, 10-17-72, Cl. 300-1,000.
- Landen, William James, to Eyelet Specialty Company. Safety device for an aerosol or the like dispensing container. 3,702,668, 11-14-72, Cl. 222-182,000.
- Landenberger, Helmut: *See—*
- Wiederhut, Wolfgang; Landenberger, Helmut; and Hofmann, Ulrich, 3,677,035.
- Lander, David Robin: *See—*
- Nott, Robert Edward; and Lander, David Robin, 3,706,827.
- Lander, David Robin, to Imperial Chemical Industries Limited. Mixing device. 3,664,639, 5-23-72, Cl. 259-4.
- Lander, Gerard H.: *See—*
- Kuznietz, Moshe; Lander, Gerard H.; and Baskin, Yehuda, 3,646,813.
- Lander, Max. Combined drum-guitar musical instrument. 3,680,423, 8-1-72, Cl. 84-170,000.
- Lander, Vern: *See—*
- Kaczmarek, Bernard; and Lander, Vern, 3,686,601.
- Lander, William M.: *See—*
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- Landgraber, Herbert: *See—*
- Heymer, Gero; Landgraber, Herbert; and Merkenich, Karl, 3,639,289.
- Landgraf, Helmut: *See—*
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- Landgraf, Walter D. Ribbon spool. 3,679,039, 7-25-72, Cl. 197-175,000.
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- Clark, Wilbur R.; and Mann, Freeman W., 3,691,701.
- Flohr, William P., Jr.; and Boller, John A., 3,646,710.
- Happel, William Emory, 3,667,167.
- McIntosh, Michael D., 3,673,434.
- McIntosh, Michael D., 3,655,957.
- McIntosh, Michael D., 3,665,279.
- Price, Ralph E., 3,636,664.
- Price, Ralph E.; and Gebel, Kurt M., 3,653,164.
- Price, Ralph E., 3,690,072.
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- Job, Claude; Landler, Yvan; Lebel, Pierre Henri; and Meillat, Lucile, 3,650,874.
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- Landman, Dirk, to Berg Electronics, Inc. Hinge type circuit board connector block. 3,701,071, 10-24-72, Cl. 339-4,000.
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- Landolt, George R.: *See—*
- Argauer, Robert J.; and Landolt, George R., 3,702,886.
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- Landoni, Giannino. Multineedle quilting machine for the manufacture of padded upholstery. 3,669,045, 6-13-72, Cl. 112-118,000.
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- Landoni, Giannino. Multineedle quilting machine. 3,680,507, 8-1-72, Cl. 112-118,000.
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- Landquist, Justus Kenneth; and Richardson, Dora Nellie, to Imperial Chemical Industries Limited. Trans-1-p-(dialkylaminoalkyl) phenyl-1,2-diphenyl-alk-1-enes and salts thereof. 3,637,856, 1-25-72, Cl. 260-570.
- Landrum, Bobby L., to Northrop Corporation. Multi-beam electron beam scanner utilizing a modulation plate for modulating each of the beams independently. 3,678,330, 7-18-72, Cl. 315-13,00r.
- Landrum, Charles Rabun: *See—*
- Calvert, Rodney K.; and Landrum, Charles Rabun, 3,699,666.
- Landrum, Ira T., to Internal Pipeline Services, Inc. Internal pipeline coating apparatus. 3,703,947, 11-28-72, Cl. 188-290,000.
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- Gordon, George E.; and Landrum, Leon L., 3,698,563.
- Landrum, Porter, 25% to Landrum, Porter, Jr., 20% to McMorries, Edward Y., 10% to Timberlake, Marshall, Mrs., 10% to Null, William, Mrs. and 10% to McMorries, Willie Mae, Mrs. Carburetor for internal combustion engine. 3,707,278, 12-26-72, Cl. 261-62,000.
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- Landrum, Ralph A., Jr.: *See—*
- Farr, John B.; and Landrum, Ralph A., Jr., 3,678,454.
- Landrum, Ralph A., Jr., to Amoco Production Company. Phase control of servo hydraulic vibrators. 3,698,508, 10-17-72, Cl. 181-00h.
- Landrum, William E.: *See—*
- Sherman, Marshall L., 3,636,432.
- Landry, Alfred. Water sterilizer. 3,634,025, 1-11-72, Cl. 21-102.
- Landry, Alfred. Sterilizer unit for fluid media. 3,700,406, 10-24-72, Cl. 21-54,00r.
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- Martin, John E.; and Landry, B. Roger, 3,698,483.
- Landry, Caliste J.: *See—*
- Elings, Virgil B.; and Landry, Caliste J., 3,647,284.
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- Landry, Murphy J., to United States of America, Atomic Energy Commission. Multiple beam laser system. 3,699,474, 10-17-72, Cl. 331-94,500.
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- Feja, Josef Heinz; and Landskroner, Karl-Heinz, 3,642,451.
- Landsman, Arkady Pavlovich: *See—*
- Lidorenko, Nikolai Stepanovich; Landsman, Arkady Pavlovich; Strebkov, Dmitry Semenovich; Zaitseva, Aita Konstantinovna; Zadde, Vitaly Viktorovich; and Kosarev, Viktor Sergeevich, 3,653,971.
- Landsman, Walter A.: *See—*
- Melnick, Samuel H.; Landsman, Walter A.; and Stromski, Walter A., 3,702,023.
- Landsness, Clifford A.: *See—*
- Shively, Harmon G.; and Landsness, Clifford A., 3,681,877.
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- Maycock, Russel L.; and Landua, Alton J., 3,637,590.
- Parry, Harvey L.; and Landua, Alton J., 3,635,843.
- Landucci, Louis: *See—*
- McKay, Donald Roderick; and Landucci, Louis, 3,649,180.
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- Alker, Dietrich-Ekkehard, 3,663,954.
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- Weisselberg, Edward B.; Worden, George M., Sr.; Lamp, William F.; and Lane, Alexander M., 3,681,855.
- Lane, Bert: *See—*
- McQuary, Kenneth L.; Karlin, George H.; and Lane, Bert, 3,675,301.
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- Rukavina, Louis, Jr.; Brower, Robert L.; and Lane, Daniel J., 3,705,437.
- Lane, Donald W.; and Pemberton, Troy J., to Phillips Petroleum Company. Modified on-off control. 3,676,782, 7-11-72, Cl. 328-1,000.
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- Hardy, Clarence James; Lane, Edward Sydney; and Hannam, Mervyn John, 3,655,418.
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- Kott, Alan C.; Jankowiak, Erwin M.; and Lane, George A., 3,704,187.
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- Lane, George A., to Dow Chemical Company, The. Caseless rocket containing silane polymer. 3,665,862, 5-30-72, Cl. 102-103.
- Lane, George A.; Smith, William Arthur; Dollman, Stephen C.; Kaye, Seymour M.; and Taylor, Francis R., said Lane and said Smith assors. to Dow Chemical Company, The and said Dollman, said Kaye and said Taylor assors. to United States of America, Army. Illuminating flare composition. 3,673,013, 6-27-72, Cl. 149-19,000.
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- Lane, Lamcolm S.: *See—*
- Erekson, Arthur B.; and Lane, Lamcolm S., 3,696,847.
- Lane, Lynn R.: *See—*
- Allen, Terry S.; Lane, Lynn R.; and Swartz, Harold Lee, 3,640,137.
- Lane, Martin S.: *See—*
- Farmer, Edwin B.; Cadle, Terence M.; and Lane, Martin S., 3,694,173.
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- Lane, Richard L.: *See—*
- Bender, David L.; and Lane, Richard L., 3,678,917.
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Centala, John P.; and Lane, Royce W., 3,638,100.
- Lane, Thomas E., Jr.: *See—*
Greenman, James R.; and Lane, Thomas E., Jr., 3,631,941.
- Lane, William Charles: *See—*
Smith, Michael John; and Lane, William Charles, 3,654,745.
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Scacciati, Giovanni; and Lanfranco, Giovanni, 3,689,385.
Scacciati, Giovanni; and Lanfranco, Giovanni, 3,689,386.
- Lang, Alphonse Gregory, Jr., to Ceramic Magnetics, Inc. Pre-formed multiple track magnetic head assembly. 3,655,923, 4-11-72, Cl. 179-100.2.
- Lang, Armin, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Hydrostatic steering system for vehicles. 3,651,885, 3-28-72, Cl. 180-79.2.
- Lang, Charles J.: *See—*
DeHaas, Gerrit G.; Clark, Leslie H.; and Lang, Charles J., 3,654,353.
- Lang, David C. Filter cleaner having rotatable support and spray means. 3,650,283, 3-21-72, Cl. 134-143.
- Lang, Dean D. Figure and oscillatable ball assembly. 3,651,598, 3-28-72, Cl. 46-116.
- Lang, Edgar Reed; and Kelso, Robert Leslie, to Rohm & Haas Company. Thermally stabilized acrylic polymers. 3,634,367, 1-11-72, Cl. 260-79.7.
- Lang, Elliot R., to American Chain & Cable Company, Inc. Method and apparatus for testing the hardness of materials. 3,657,921, 4-25-72, Cl. 73-83.
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- Lang, Frederic A. Tendons for prestressed concrete and process for making such tendons. 3,646,748, 3-7-72, Cl. 57-149.
- Lang, George Henry, to Imperial Chemical Industries Limited. 1,1'-Ethylene-2,2'-bipyridylum salts. 3,651,060, 3-21-72, Cl. 260-250.
- Lang, Gordon R., to E.S.E. Limited. Circuit and method for developing signal indicative of unknown frequency. 3,701,012, 10-24-72, Cl. 324-79.00r.
- Lang, Gregor L. Alternating current solenoids. 3,647,177, 3-7-72, Cl. 251-129.
- Lang, Gunter A.: *See—*
Tregear, Geoffrey W.; Battaerd, Hendrik A. J.; Lang, Gunter A.; Catt, Kevin; and Niall, Hugh D., 3,700,609.
- Lang, Hans: *See—*
Buchner, Anton; Lang, Hans; Lenz, Johann; Unterstenhoefer, Leo; and Krieger, Wilhelm, 3,661,812.
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- Lang, Hermann: *See—*
Hartel, Arnold; Helger, Roland; and Lang, Hermann, 3,689,364.
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- Lang, James W. Mobile, containerized dispenser for flowable materials. 3,655,137, 4-11-72, Cl. 239-670.
- Lang, James W.; and Lang, Emma P. Board game apparatus. 3,659,851, 5-2-72, Cl. 273-130.
- Lang, Jerry M., to Carc, Inc. Anti-pollution solid waste burning incinerator. 3,707,128, 12-26-72, Cl. 110-8.00a.
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Schulz, Egon; Bolega, Ulrich; and Lang, Johann, 3,684,933.
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Fischer, Harry F., Jr.; and Lang, John N., 3,680,269.
- Lang, Linton W., to United States of America, Atomic Energy Commission. Fast breeder reactor. 3,658,644, 4-25-72, Cl. 176-18.
- Lang, Marshall Ira, to Bajer Industries Incorporated. Suspended ceiling system including a grid network. 3,685,235, 8-22-72, Cl. 52-39.000.
- Lang, Maurice; and Di Pasquale, Renato, to Yardney International Corporation. Fuel cell battery. 3,650,839, 3-21-72, Cl. 136-86.
- Lang, Otto, to Kugelfischer Georg Schafer & Co. Friction crimping of synthetic threads. 3,668,853, 6-13-72, Cl. 57-34.
- Lang, Paul C.; La Pine, Anthony N.; and Vaughn, Julian E., to International Business Machines Corporation. Random binary data signal frequency and phase compensation circuit. 3,701,039, 10-24-72, Cl. 331-1.00a.
- Lang, Paul Wentworth, 1/2 to Du Pont, Michael H. Optical integrating system. 3,684,346, 8-15-72, Cl. 350-96.00b.
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- Lang, Richard E.: *See—*
Hine, Wilbur H., Jr.; Murray, Ronald D.; and Lang, Richard E., 3,656,866.
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Pickett, Charles G.; Lang, Robert A.; and Comers, Robert C., 3,677,866.
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- Lang, Ronald A., to Waters Mfg. Co., Inc. Animal actuated drinking valve. 3,698,685, 10-17-72, Cl. 251-303.000.
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Korosi, Jeno; Pataky, Istvan; and Lang, Tibor, 3,637,853.
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Froehlich, Walter; and Lang, Walter, 3,706,851.
- Lang, Walter T., to Simmonds Precision Products, Inc. Analog-to-digital converter. 3,696,400, 10-3-72, Cl. 340-347.0ad.
- Lang, William D.: *See—*
White, Edward L.; and Lang, William D., 3,645,944.
- Lang, William J.; and Krajewski, John J., to International Minerals & Chemical Corporation. Graft copolymers of acrylic acid and polyhydroxy polymeric compounds for treating clays. 3,640,826, 2-8-72, Cl. 252-8.5.
- Lang, William J.; and Chelini, Joseph M., to International Minerals & Chemical Corporation. Agglomerate including graft copolymers of acrylic acid and methyl cellulose and method of making. 3,644,113, 2-22-72, Cl. 75-3.
- Lang, William J.; and Krajewski, John J., to International Minerals & Chemical Corporation. Foundry sand compositions containing graft copolymers of acrylic acid with water soluble polyhydroxy polymeric compounds. 3,645,937, 2-29-72, Cl. 260-17.
- Lang, William J., to International Minerals & Chemical Corporation. High yield bentonites. 3,687,846, 8-29-72, Cl. 252-8.50a.
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Bienert, Klaus; Lang, Winfried; Nordt, Egon; and Weidner, Herbert, 3,700,413.
- Langan Aperture Cards, Inc.: *See—*
Langan, John F., 3,693,510.
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Lingle, Harrison C.; and Langas, Arthur, 3,647,593.
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Schroeder, Hans-Detlef; Merz, Herbert; Langbein, Adolf; Freter, Kurt; Zeile, Karl; Dannenberg, Peter; Giesemann, Rolf; and Wick, Helmut, 3,689,492.
- Langbein, Gerhard: *See—*
Hoff, Gunter; and Langbein, Gerhard, 3,700,488.
- Langdon, Jack L.: *See—*
Feinberg, Irving; Langdon, Jack L.; and Sittler, Carl L., 3,697,318.
- Langdon, Jack L., to International Business Machines Corporation. Construction of monolithic chip and method of distributing power therein for individual electronic devices constructed thereon. 3,656,028, 4-11-72, Cl. 317-235.
- Langdon, Thomas Edward. Electrical contact assembly having damping means. 3,674,968, 7-4-72, Cl. 200-166.00h.
- Lange, Clarence E.: *See—*
Beaverton, Daniel H.; Hall, Richard H.; and Lange, Clarence E., 3,686,827.
- Lange, Frederick F., to Westinghouse Electric Corporation. Method for bonding sheet metal cladding to a body. 3,699,642, 10-24-72, Cl. 29-497.500.
- Lange, Fritz-Walter, to Schwarzkopf, Hans, GmbH. Pyridine dyestuff intermediates in a hair dyeing composition and method. 3,647,351, 3-7-72, Cl. 8-10.2.
- Lange, Gerhard: *See—*
Bahr, Alex; and Lange, Gerhard, 3,651,440.
- Lange, Gerhard, to Messer Griesheim G.m.b.H. Flame cutting method. 3,663,309, 5-16-72, Cl. 148-9.
- Lange, Gerhard, to Messer Griesheim G.m.b.H. Portable hand guided cutting torch. 3,638,931, 2-1-72, Cl. 266-23.
- Lange, Gerhard, to Messer Griesheim G.m.b.H. Process for autogeneous flame cutting. 3,661,654, 5-9-72, Cl. 148-9.
- Lange, Guenter; and Fabian, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Water-insoluble dyes. 3,658,885, 4-25-72, Cl. 260-486.

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- Lange, Guenter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Monoazo dyes containing a benzoisotiazole. 3,658,784, 4-25-72, Cl. 260-158.
- Lange, Gunter; and Ulderup, Jurgen, to Lemforder Metallwaren AG. Universal joint construction. 3,651,663, 3-28-72, Cl. 64-17.
- Lange, Hans, to Deutsche Texaco Aktiengesellschaft. Method for controllable in-situ combustion. 3,700,035, 10-24-72, Cl. 166-261.000.
- Lange, Helmut: *See—*
Thorwest, Harald; Lehmann, Helmut; Lange, Helmut; Schlos-sarek, Udo; Siefen, Jakob; and Mathner, Hermann, 3,688,567.
- Lange, Henner: *See—*
Barth, Hans; Griess, Wilhelm; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Sagredos, Angelos, 3,663,446.
Barth, Hans; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Griess, Wilhelm, 3,706,675.
- Lange, Henry G. Multi-job router guide kit. 3,635,268, 1-18-72, Cl. 144-134.
- Lange, Hertwig: *See—*
Staller, Karel Jan; and Lange, Hertwig, 3,684,075.
- Lange, Howard G. Method of screening a color image reproducing device. 3,695,871, 10-3-72, Cl. 96-1.200.
- Lange, Joachim, to Kabel, Karl, Gesellschaft mit beschränkter Haf-tung. Free-standing household shelf arrangement. 3,636,893, 1-25-72, Cl. 108-111.
- Lange, Joachim; Malitschek, Otto; and Mader, Fred, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Method of improving wax-containing self-polishing emulsions and product. 3,666,500, 5-30-72, Cl. 106-6.000.
- Lange, Karl Heinz, to Balda Werke Photographische Geräte und Kunststoff R. Gruter Kommanditgesellschaft. Carrying strap mounting. 3,631,572, 1-4-72, Cl. 24-223.
- Lange, Karl Heinz, to Balda Werke Photographische Geräte und Kunststoff R. Gruter Kommanditgesellschaft. Photographic camera with electrically operated film metering and timing mechanism. 3,683,774, 8-15-72, Cl. 95-31.0fm.
- Lange, Karl Heinz, to Balda Werke Photographische Geräte und Kunststoff R. Gruter Kommanditgesellschaft. Adjustable camera-objective. 3,696,725, 10-10-72, Cl. 95-45.000.
- Lange, Karl-Heinz, to Balda-Werke Photographische Geräte und Kunststoff R. Gruter Kommanditgesellschaft. Cameras with mechanically ignited flashcubes. 3,680,454, 8-1-72, Cl. 95-11.00l.
- Lange, Lawrence H.: *See—*
Potts, John T.; Lange, Lawrence H.; and Liss, Thomas P., 3,647,066.
- Lange, Martin, Jr., to Koss Electronics, Inc. Electrostatic headphone. 3,632,903, 1-4-72, Cl. 179-111.
- Lange, Paul: *See—*
John, Willibald; Schmalfeld, Paul; Lange, Paul; and Rammler, Roland, 3,700,564.
- Lange, Wilfried: *See—*
Volkman, Dieter; and Lange, Wilfried, 3,673,923.
- Lange, Wilfried. Pneumatic percussion device. 3,633,459, 1-11-72, Cl. 91-401.
- Lange, Wilfried. Pneumatic stapling device. 3,657,968, 4-25-72, Cl. 91-398.
- Langecker, Erhard. Process for the application of a label on a hol-low body made of thermoplastic material. 3,657,405, 4-18-72, Cl. 264-89.
- Langecker, Erhard. Apparatus for applying labels or plates to blow molded thermoplastic hollow bodies. 3,684,418, 8-15-72, Cl. 425-122.000.
- Langelan, Harry C.: *See—*
Doble, Henry P., Jr.; and Langelan, Harry C., 3,705,056.
- Langella, Dominick W. Insulator with conductor piercing clamp for insulated cable. 3,674,916, 7-4-72, Cl. 174-169.000.
- Langemann, Albert: *See—*
Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Wald-vogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,651,100.
- Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Wald-vogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,655,650.
- Langen, Marinus J. M., to Consolidated Paper (Bahamas) Limited. Carton loading machine. 3,645,068, 2-29-72, Cl. 53-186.
- Langenbach, Erwin; and Erdmann, Jurgen, to Sick, Erwin, Firma. Photoelectric web bobbin feeler for looms for monitoring the yarn stock on web bobbins. 3,631,901, 1-4-72, Cl. 139-273.
- Langenbeck, Peter H., to Perkin-Elmer Corporation, The. Method and apparatus for observing detecting and correcting periodic structures in a moving web. 3,633,037, 1-4-72, Cl. 250-219.
- Langendorf, Matthew P.; and Ridings, Charles L., to International Business Machines Corporation. Tone actuated dictation systems with voice buffer option. 3,647,985, 3-7-72, Cl. 179-100.1.
- Langendorf, Matthew P., to International Business Machines Cor-poration. Tone controlled dictation apparatus. 3,691,300, 9-12-72, Cl. 179-6.00e.
- Langendorfer Plastics Corporation: *See—*
Langendorfer, Walter J.; and Coffin, David W., Sr., 3,705,760.
- Langendorfer, Walter J.; and Coffin, David W., Sr., to Langendorfer Plastics Corporation. Face goggles. 3,705,760, 12-12-72, Cl. 351-44.000.
- Langenhoff, Ferdinand; Termin, Erich; Bleh, Otto; and Lenz, Ar-nold, to Dynamit Nobel Aktiengesellschaft. Production of vanadi-um oxytrichloride. 3,684,433, 8-15-72, Cl. 23-19.00v.
- Langenhop, John Herman, to AMF Incorporated. Inter-conveyor turn device. 3,664,485, 5-23-72, Cl. 198-78.
- Langensiepen, Max, Kom. Ges. Emmendingen: *See—*
Querfeld, Hermann; Mattes, Heinz Otto; and Flesch, Friedrich, 3,640,043.
- Langenstein, Julius. Lawn edge trimmer. 3,693,255, 9-26-72, Cl. 30-276.000.
- Langer, Alfred: *See—*
Hanig, Siegfried; and Langer, Alfred, 3,673,806.
- Langer, Alfred C.: *See—*
Reynolds, Frank L.; Langer, Alfred C.; and Tweedie, Ellsworth, 3,690,704.
- Langer, Alois: *See—*
Jackovitz, John F.; and Langer, Alois, 3,650,835.
- Langer, Arthur W., Jr.: *See—*
Bunting, William; and Langer, Arthur W., Jr., 3,705,200.
- Langer, Arthur W., Jr., to Esso Research and Engineering Company. Preparation of linear olefin products. 3,647,912, 3-7-72, Cl. 260-683.15.
- Langer, Arthur W., Jr., to Esso Research and Engineering Company. Process for producing linear alpha olefins. 3,655,812, 4-11-72, Cl. 260-683.15.
- Langer, Arthur W., Jr., to Esso Research and Engineering Company. Process for preparing linear olefins. 3,662,021, 5-9-72, Cl. 260-683.15.
- Langer, Arthur W., Jr., to Esso Research and Engineering Company. Process for lithiating ferrocene. 3,663,585, 5-16-72, Cl. 260-439.
- Langer, Horst G.: *See—*
Karle, Franklin J.; and Langer, Horst G., 3,685,344.
- Langer, Horst G., to Dow Chemical Company, The. Furnace as-sembly for thermal analysis use. 3,634,591, 1-11-72, Cl. 13-31.
- Langer, Horst G.; Karle, Franklin J.; and Ayers, Earl D., to Dow Chemical Company, The. Differential thermal analysis cell as-sembly. 3,667,278, 6-6-72, Cl. 73-15.
- Langer, Horst G., to Dow Chemical Company, The. Differential thermal analysis cell assembly. 3,667,279, 6-6-72, Cl. 73-15.
- Langer, Philippe. Method and apparatus for the measurement of du-ration of ultra short pulses of monochromatic light. 3,641,343, 2-8-72, Cl. 250-71.
- Langer, Stanley H., to Wisconsin Alumni Research Foundation. Polymeric tetrahaloterephthalate esters. 3,666,792, 5-30-72, Cl. 260-475.
- Langewis, Cornelis, to Kaiser Aluminum & Chemical Corporation. Container forming apparatus. 3,678,725, 7-25-72, Cl. 72-344.000.
- Langford, Obie M., to Texaco Inc. High voltage connector for a neutron generator comprising a plastic insulator. 3,657,536, 4-18-72, Cl. 250-84.5.
- Langguth, Robert P.: *See—*
Haynes, Richard T.; Langguth, Robert P.; and Liss, Raymond L., 3,634,267.
- Langhals, James J. Welding truck containing all required equipment. 3,633,970, 1-11-72, Cl. 296-24.
- Langham, J. Michael. Digital variable frequency oscillator. 3,675,146, 7-4-72, Cl. 331-1.00r.
- Langham, Maurice Edward, to United States of America, Health, Education and Welfare. Treatment of glaucoma employing 5-(3-methylaminopropyl)5H-dibenzo(a,d)cycloheptene. 3,644,647, 2-22-72, Cl. 424-330.
- Langhammer, Arthur C. Spinal area back supporter and massaging device. 3,672,360, 6-27-72, Cl. 128-67.000.
- Langhammer, Hans Jurgen: *See—*
Geck, Gunter; and Langhammer, Hans Jurgen, 3,669,434.
- Langhans, Roy Kenneth, to ICI America Inc. Baking process using polyoxyethylene fatty ethers as softeners and conditioners. 3,703,380, 11-21-72, Cl. 99-91.000.
- Langhi, Bruno A., to Ever-Ready Appliance Mfg. Co. Pegboard item. 3,650,502, 3-21-72, Cl. 248-225.
- Langhoff, Boris, to Krauss & Reichert Spezialmaschinenfabrik. Knife grinding device for a motor-driven cutting tool. 3,703,056, 11-21-72, Cl. 51-246.000.
- Langhoff, Josef: *See—*
Peters, Werner; Luther, Horst; Langhoff, Josef; Abel, Otto; and Schmeling, Gerhard, 3,661,722.
- Langieri, Michael, Jr.; and Watts, Lennox, to Questor Corporation. Educational toy adding machine. 3,706,876, 12-19-72, Cl. 235-74.000.
- Langkammerer, Carl M., to Du Pont de Nemours, E. I., and Com-pany. Unsaturated ketones. 3,642,904, 2-15-72, Cl. 260-590.
- Langkammerer, Carl M., to Du Pont de Nemours, E. I., and Com-pany. Pharmaceutical composition comprising certain 1,3-substituted cyclools. 3,662,071, 5-9-72, Cl. 424-275.

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- Langkopf, Herbert Reinhold. Apparatus for processing photographic material. 3,633,487, 1-11-72, Cl. 95-89.
- Langlade, Pierre: *See—*
Delacour, Pierre; Langlade, Pierre; and Renard, Michel, 3,638,403.
- Langlais, Eugene L.: *See—*
Casson, Edward A., Jr.; Gaul, Albro T.; Langlais, Eugene L.; Shadlen, Gerald; and Vanaver, Eugene L., 3,658,662.
- Langlais, Rene N., to Texas Instruments, Incorporated. Manufacture of perforated metal foil. 3,654,115, 4-4-72, Cl. 204-216.
- Langley, Charles J. Body-engaging extensible exercising device. 3,638,939, 2-1-72, Cl. 272-79.
- Langley, Clyde H.: *See—*
Gable, Larry P.; and Langley, Clyde H., 3,635,177.
- Langley, Isaac L., Jr.: *See—*
Tate, John E.; Borenstein, David E.; Langley, Isaac L., Jr.; and Banning, Jack A., 3,684,459.
- Langley, Lawrence W., to Symbionics, Incorporated. Circuit for processing reflected signals. 3,651,433, 3-21-72, Cl. 333-970.
- Langley, Lawrence W., to Symbionics, Incorporated. Scanning system for yielding a three-dimensional display. 3,705,261, 12-5-72, Cl. 178-6.500.
- Langley, Robert C., to Engelhard Minerals & Chemicals Corporation. Value metal base electrode coated with $Pb_2Ru_2O_8$ or $Pb_2Ir_2O_8$. 3,691,052, 9-12-72, Cl. 204-290.00f.
- Langley, Robert E., to Snorkel Fire Equipment Company. Fluid power device. 3,680,713, 8-1-72, Cl. 212-35.0hc.
- Langley, Thomas W.; and Cloud, Robert A., to Texaco Inc. Open back shed loom. 3,636,986, 1-25-72, Cl. 139-17.
- Langlinais, Vernon L., to Morton-Norwich Products, Inc., mesne. Distributing apparatus. 3,635,326, 1-18-72, Cl. 198-52.
- Langlit, Karl-Heinz: *See—*
Stresemann, Siegfried; Langlit, Karl-Heinz; and Mahringer, Karl-Heinz, 3,652,072.
- Langlitz, Karlheinz: *See—*
Mahringer, Karl Heinrich; and Langlitz, Karlheinz, 3,684,265.
- Langlois, Andrew H. A.: *See—*
Webster, Pierre A. J.; and Langlois, Andrew H. A., 3,642,169.
- Langlois, Donald J.: *See—*
Finley, Ronald K.; Langlois, Donald J.; and Nicholson, Robert H., 3,659,315.
- Langlois, Gary N., to Holotron Corporation. Ultrasonic beam expander. 3,687,219, 8-29-72, Cl. 181-50r.
- Langlois, Gordon E.; Olson, Lloyd J.; and Rudy, Charles E., Jr., to Chevron Research Company. Iron removal. 3,684,700, 8-15-72, Cl. 208-251.000.
- Langlois, Henry J., to American Standard, Inc. Oil mist eliminator for a fluid drive. 3,633,341, 1-11-72, Cl. 55-186.
- Langlois, Henry J., to American Standard, Inc. Trapezoidal scoop tube. 3,646,756, 3-7-72, Cl. 60-54.
- Langmead, Edmund Clarence, Jr.: *See—*
Pieper, Charles Joseph; and Langmead, Edmund Clarence, Jr., 3,682,460.
- Langmead, Peter Norman Frederick, to Zealand Engineering Company Limited. Production of decorative tiles. 3,648,499, 3-14-72, Cl. 72-55.
- Langner, Carl G.; and Visser, Robert C., to Shell Oil Company. Method for connecting flowlines to a platform. 3,699,691, 10-24-72, Cl. 61-72.300.
- Langner Domes Ltd.: *See—*
Langner, Horst Egon Phillip, 3,696,566.
- Langner, Horst Egon Phillip, to Langner Domes Ltd. Sphere-dome construction. 3,696,566, 10-10-72, Cl. 52-80.000.
- Langner, Ralph Rolland: *See—*
Moore, William Ross; and Langner, Ralph Rolland, 3,657,200.
- Langosch, Otto Paul Ferdinand, to Vickers G.m.b.H., Firma. Fluid control systems. 3,663,126, 5-16-72, Cl. 417-300.
- Langowski, Faustyn C.; and Turner, John W., Jr., to Jackson, Byron, Inc. Horizontal pipe racking and handling apparatus. 3,655,071, 4-11-72, Cl. 214-2.5.
- Langowski, Faustyn C., to Jackson, Byron, Inc. Fluid transfer apparatus for well pipe elevator. 3,695,669, 10-3-72, Cl. 294-82.00r.
- Langsenkamp, F. H., Co.: *See—*
Happel, Hermann E., 3,682,341.
- Langston, Benny: *See—*
Salmon, David; Wierzbicki, Edward J.; Langston, Benny; and Beegle, Donald W., 3,703,340.
- Langston, Benny, to U.S. Reduction Co. Process for recovering aluminum from dross. 3,694,190, 9-26-72, Cl. 75-68.00r.
- Langston, Perry R., Jr.: *See—*
Greenstein, Bernard; Langston, Perry R., Jr.; Narken, Bernt; and Sunners, Brian, 3,663,194.
- Lanham, Betty U.: *See—*
Lankford, Barre D.; and Lanham, Charles W., 3,675,181.
- Lanham, Charles W.: *See—*
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- Lanham, Richard R. Digital read out indicator for vehicles. 3,704,445, 11-28-72, Cl. 340-62.000.
- Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr. Conveyor system. 3,680,493, 8-1-72, Cl. 107-57.00c.
- Lanham, William E., Jr.: *See—*
Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr., 3,680,493.
- Lania, Anthony R.; and Kirkegard, Neil, Jr., to Chase Corporation. Semiconductive contact adhesive. 3,692,702, 9-19-72, Cl. 252-511.000.
- Lanier, Carroll W.: *See—*
Seth, Kishan K.; and Lanier, Carroll W., 3,661,562.
- Lanier, Carroll W., to Ethyl Corporation. Process for the production of olefins. 3,663,647, 5-16-72, Cl. 260-683.15.
- Lanier, Carroll W., to Ethyl Corporation. Process for producing high purity straight chain aluminum alkyl compounds from olefin mixtures containing vinyl olefins and non-vinyl olefins. 3,686,250, 8-22-72, Cl. 260-448.00a.
- Lanier, Eldred S., Jr.: *See—*
Binkley, Frederick H., Jr.; Lanier, Eldred S., Jr.; and Barrilleaux, Robert G., 3,680,389.
- Lanier Electronic Laboratory, Inc.: *See—*
Bolick, Fred C., Jr.; and Godwin, James B., III, 3,632,893.
- Nye, William M.; and Jones, Stanley W., 3,705,961.
- Nye, William M., 3,706,859.
- Lanier Electronic Laboratory, Inc., mesne: *See—*
Nye, William M.; and Jones, Stanley W., 3,671,680.
- Lanier Industries, Inc.: *See—*
Purdy, Leonard R., 3,645,481.
- Lanier, Jack K.: *See—*
Horner, Jack E.; and Lanier, Jack K., 3,636,391.
- Lanier, Leo H. Oyster opening machine. 3,654,666, 4-11-72, Cl. 17-76.
- Laniewski, John P.: *See—*
George, Raymond L.; Kruszona, Edward G.; Laniewski, John P.; and Wood, Norman H., 3,637,092.
- Lanigan, Richard W., to American Hospital Supply Corporation. Hospital beds. 3,686,696, 8-29-72, Cl. 5-63.000.
- Lanius, James Curtis, Jr., to Illinois Tool Works Inc. Drilling and reaming screw. 3,699,841, 10-24-72, Cl. 85-41.000.
- Lankard, David R.; and Sheets, Herbert D., Jr., to United States Steel Corporation. Composition for marking hot metal. 3,640,737, 2-8-72, Cl. 106-19.
- Lankenau, Richard F. Bottom opening shellfish trap. 3,699,702, 10-24-72, Cl. 43-100.000.
- Lankford, Barre D.; and Lanham, Charles W.; deceased (by Lanham, Betty U.; administratrix), to Entron, Inc. Coaxial connector means affording alternate 90° seizure. 3,675,181, 7-4-72, Cl. 339-32.00r.
- Lankford, David L.: *See—*
Tobey, Ray; and Lankford, David L., 3,673,073.
- Lankford, Larry G.: *See—*
Bederman, Seymour; and Lankford, Larry G., 3,633,011.
- Lankheet, Jay A., to Glamour Pools Company. Above ground pool units with foldable side panel, deck and fence. 3,654,639, 4-11-72, Cl. 4-172.19.
- Lankheet, Jay A., to Glamour Pools Company. Enclosures for pools and the like. 3,662,410, 5-16-72, Cl. 4-172.12.
- Lannon, C. P., II, to Schlumberger Technology Corporation. Apparatus for perforating earth formations. 3,695,368, 10-3-72, Cl. 175-4.520.
- Lannon, C. P., II, to Schlumberger Technology Corporation. Apparatus for perforating earth formations. 3,707,195, 12-26-72, Cl. 175-4.520.
- Lannert, Kent P., to Monsanto Company. Detergent formulations. 3,704,320, 11-28-72, Cl. 252-546.000.
- Lanni, Michael J.: *See—*
Hurlburt, Charles E.; Lanni, Michael J.; and Fraenkel, Alphons, 3,662,595.
- Lanning, Charles T.; and Cook, James T. Removable flotation means and water drive assembly for snowmobiles. 3,646,904, 3-7-72, Cl. 115-1.
- Lanning, Walter C., to Sperry Rand Corporation. Apparatus for converting numbers between positive and negative radices. 3,652,840, 3-28-72, Cl. 235-155.
- Lanning, Walter C., to Sperry Rand Corporation. Apparatus for converting numbers between positive and negative radices. 3,652,841, 3-28-72, Cl. 235-155.
- Lanning, William C.; and Gall, James W., to Phillips Petroleum Company. In situ gelation of polymers during waterflooding. 3,658,129, 4-25-72, Cl. 166-270.
- Lannion, Rene Francois: *See—*
Le Strat, Guy Jean; Lannion, Rene Francois; and Satie, Pierre-Louis Joseph, 3,692,961.
- Lanoue, Thomas J.; and De Neef, John G., to Westinghouse Electric Corporation. Transformer lead insulator and method of making same. 3,676,579, 7-11-72, Cl. 174-138.00r.
- Lanphear, Jerry D.: *See—*
Schneider, Franklin R.; and Lanphear, Jerry D., 3,676,694.
- Lanphier, Edward H.: *See—*

- Morin, Richard A.; and Lanphier, Edward H., 3,698,591.
- Lansaque, Rene; and Bonnefond, Georges, to Societe Chimique de Gerland. Gaskets. 3,690,684, 9-12-72, Cl. 277-207.000.
- Lansdowne, Kenneth H., to Varian Associates. Logarithmic RF amplifier employing successive detection. 3,668,535, 6-6-72, Cl. 329-192.000.
- Lansing Bagnall Limited: *See—*
Goodacre, Ronald, 3,662,231.
- Kulick, Bruno; and Lamneck, Karlheinz, 3,703,217.
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Holland, Gordon Christopher Yardly, 3,664,465.
- Lansinger, Jere R.; and Mac Afee, James E., to Chrysler Corporation. Collant pump. 3,632,220, 1-4-72, Cl. 415-112.
- Lantry, Burrell J., to Moffitt, Lucian R., Inc. Journal sleeve for relative rotation in a bearing. 3,637,269, 1-25-72, Cl. 308-237.
- Lantz, Donald J.: *See—*
Mason, William L.; and Lantz, Donald J., 3,661,147.
- Lantz, James E.: *See—*
Arnold, Bruce C.; Auman, John T., Jr.; Kinnison, Charles G.; and Lantz, James E., 3,692,157.
- Lantz, Joseph C.: *See—*
Domyan, Frank F.; Lantz, Joseph C.; and Sibley, Richard D., 3,675,650.
- Lanus, Alfred L. G., 1/2 to Carlo, L. Diaz. Adjustable dog collar. 3,641,984, 2-15-72, Cl. 119-106.
- Lanusse, Marie Marguerite. Device for rationally applying various fluid products. 3,658,432, 4-25-72, Cl. 401-219.
- Lanvin, Jeanne: *See—*
Lanvin, Lucie, 3,700,148.
- Lanvin, Lucie, to Lanvin, Jeanne. Wrist watch bracelet. 3,700,148, 10-24-72, Cl. 224-4.00j.
- Lany, Jan, to Vitkovice zelezarny Klementa Gottswalda, narodni podnik. Apparatus for marking moving objects. 3,659,521, 5-2-72, Cl. 101-4.
- Lanz, Donald D. Chain saw anti-pinch guard arm. 3,636,996, 1-25-72, Cl. 143-32.
- Lanza, Franco; and Marengo, Giuseppe, to European Atomic Energy Community (Euratom). Graphite impregnated with bismuth-nickel alloy. 3,664,865, 5-23-72, Cl. 117-160.00r.
- Lanzafame, Joseph: *See—*
Cameron, James A.; Lanzafame, Joseph; and Mann, Leonard E., 3,646,311.
- Lanzaro, Andre, to Dynasciences Corporation, mesne. Cross rate axis sensor. 3,638,883, 2-1-72, Cl. 244-1.
- Langenberger, Horst: *See—*
Reeber, Rudolf; and Langenberger, Horst, 3,633,457.
- Langendorfer, Josef: *See—*
Murawski, Kurt; Schmucker, Anton; Sensburg, Bernd; and Langendorfer, Josef, 3,662,667.
- Langendorfer, Max J.; Lauer, Marvin E.; and Woner, Robert K., to York Graphic Services, Inc. Fully automatic phototypesetting apparatus. 3,648,577, 3-14-72, Cl. 95-4.5.
- Laos, Ivar: *See—*
Baran, John S.; and Laos, Ivar, 3,652,606.
- Baran, John S.; and Laos, Ivar, 3,682,986.
- Laos, Ivar, to Searle, G. D., & Co. 1-Farnesylacetyl-4-hydroxyalkyl-piperazines. 3,646,036, 2-29-72, Cl. 260-268.
- Laos, Ivar; and Baran, John S., to Searle, G. D., & Co. Sulfated 11 β -methyl estrogens. 3,657,290, 4-18-72, Cl. 260-397.45.
- Laosig, Harry; and Grosshauser, Anton, to Fordertechnik Hamburg Harry Lassig. Method of welding sheets, particularly shrink-on-sheets which have been wrapped around a pallet cargo and apparatus therefor. 3,685,233, 8-22-72, Cl. 53-33.000.
- Lapaich, Michael W., to Clark Equipment Company. Retractable latching mechanism. 3,682,432, 8-8-72, Cl. 248-361.00r.
- LaPalme, Camille V.: *See—*
Olsen, Robert W.; Rodgers, David P.; and Viehmann, George A., 3,631,790.
- Lapera, Donnic J., to Parker-Hannifin Corporation. Fuel nozzle with modulating primary nozzle. 3,675,853, 7-11-72, Cl. 239-464.000.
- Lapeyre, James M. Method of installing breakwater caissons. 3,640,075, 2-8-72, Cl. 61-5.
- Lapeyre, James M., to Laitram Corporation, The. Shrimp separating and peeling machine. 3,685,098, 8-22-72, Cl. 17-73.000.
- Lapeyre, James M.; and Couret, Robert F., to Laitram Corporation, The. Insert rolls for shrimp peeling machines. 3,704,484, 12-5-72, Cl. 17-73.000.
- Lapeyre, James M.; and Couret, Robert F., to Laitram Corporation, The. Insert holddown devices. 3,706,113, 12-19-72, Cl. 17-73.000.
- Lapham, Sidney D. Drop platform structure for a loading dock. 3,699,599, 10-24-72, Cl. 14-71.000.
- Lapham, Thomas B.; and Feldberg, Leonard H., to Burndy Corporation. Mounting for integrated circuits. 3,663,920, 5-16-72, Cl. 339-17.
- Lapidas, Manuel; and Maull, John C. Yarn winding mechanism. 3,706,420, 12-19-72, Cl. 242-43.000.
- Lapidus, Mikhail Khaimovich: *See—*
Ioffe, Benyamin Alexandrovich; Mikelson, Artur Eduardovich; Makhlin, Aron Judovich; Lapidus, Mikhail Khaimovich; Salnikov, Jury Nikolaevich; Kazhe, Alexandr Zhanovich; and Trushelis, Ivan Avgustovich, 3,651,439.
- Ioffe, Benyamin Alexandrovich; Lapidus, Mikhail Khaimovich; Preis, Vladimir Viktorovich; Kalnin, Robert Karlovich; Sermons, Gunar Yanovich; Dorofeev, Vyacheslav Semenovich; Zheigur, Bruno Domenikovich; Shevchenko, Alexandr Alexandrovich; Denisov, Gennady Aexandrovich; Mikelson, Artur Eduardovich; and Makhlin, Aron Judovich, 3,662,302.
- Lapidus, Milton: *See—*
Alburn, Harvey E.; Clark, Donald E.; Grant, Norman H.; and Lapidus, Milton, 3,703,542.
- Alburn, Harvey E.; Clark, Donald E.; Grant, Norman H.; and Lapidus, Milton, 3,703,543.
- Rosenthale, Marvin E.; and Lapidus, Milton, 3,644,638.
- Lapidus, Roy. Bed pad. 3,653,083, 4-4-72, Cl. 5-348.
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- Lapinig, Stephanie N. Pumpkin pickle. 3,650,772, 3-21-72, Cl. 99-156.
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- Lapkin, Milton: *See—*
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- Fuzesi, Stephen; and Lapkin, Milton, 3,699,060.
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St. Germain, Jean, 3,688,599.
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Voegelin, Howard J.; Hoffman, Ernest G.; and Lapointe, Lloyd J., 3,644,717.
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Mitchell, Reid L.; Murphy, Charles F.; and LaPolla, Edmund M., 3,652,316.
- Laporte Chemicals Limited: *See—*
Cubbon, Robert C. P.; Braid, John E.; and Hewlett, Colin, 3,639,425.
- Laporte Industries Limited: *See—*
Bayne, John; King, Ian Robert; and Morey, John Richard, 3,697,550.
- Bol, Jan Paul; Gebhart, Joseph; and Seger, Gunther, 3,695,765.
- Durrant, George G.; and Cowe, Peter L., 3,649,321.
- Fraser, James R.; and Jenkins, Victor F., 3,655,631.
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- Neumann, Barbara Susan; and Sansom, Keith Geoffrey, 3,654,176.
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- Lappin, Douglas E. Sectional articulated agricultural apparatus. 3,705,560, 12-12-72, Cl. 111-85.000.
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- Lappin, Richard J. Valve drive mechanism. 3,636,779, 1-25-72, Cl. 74-89.
- Laprade, Bernard: *See—*
Gcle, Pierre; and Laprade, Bernard, 3,677,241.
- Lapson, Lawrence B.: *See—*
Stone, Richard S.; Lapson, Lawrence B.; and Little, Arthur D., Inc., 3,688,584.
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Dell, Harold R.; Hashiguchi, Masao; and Lara, Edward D., 3,638,185.

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Lara, Eusebio Rodriguez. Hair-curling device. 3,696,820, 10-10-72, Cl. 132-40.000.
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Gluck, Julius; and Lara, Raul, 3,696,908.
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Daniels, David A.; Orem, Rowland L., Jr.; and Lard, Edwin E., 3,668,139.
Lard, Edwin W.: *See—*
Frank, Victor S.; Lard, Edwin W.; and Stahly, Eldon E., 3,641,193.
Stahly, Eldon E.; and Lard, Edwin W., 3,657,387.
Lard, Edwin W. Method of producing nonburning paper. 3,640,763, 2-8-72, Cl. 117-126.
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Lard, Edwin W., to Grace, W. R., & Co. Curable liquid composition of polyene, polymercaptan and acrylic acid. 3,662,022, 5-9-72, Cl. 260-837.
Lard, Edwin W., to Grace, W. R., & Co. Curable liquid polyene-polythiol compositions containing polyacrylic acid and derivatives thereof. 3,701,721, 10-31-72, Cl. 204-159.160.
Lardenois, Robert A. Hair brush. 3,668,732, 6-13-72, Cl. 15-159.00a.
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Divecha, Amarnath P.; Lare, Paul J.; Ordway, Fred, Jr.; Hermann, Robert A.; Van Blaricon, Orville B.; and Hahn, Henry, 3,668,748.
Lareau, Norman N., to Eastman Kodak Company. X-ray film cassette with identification exposure window and exposure indicator. 3,703,272, 11-21-72, Cl. 250-67.000.
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Lares Productos Domesticos S.A.: *See—*
Basile, Salvador Peluso, 3,632,014.
Larew, John J.: *See—*
Dixon, Corbin; and Larew, John J., 3,670,205.
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Coniz, Andre Jan; and Laridon, Urbain Leopold, 3,658,757.
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Larina, Anastasia Vasilievna: *See—*
Bokov, Jury Sergeevich; Vikulina, Ninel Vladimirovna; Dogadkin, Boris Aristarkhovich; Erofeev, Boris Vasilievich; Larina, Anastasia Vasilievna; Lavrishev, Vadim Petrovich; Markov, Vladimir Vladimirovich; Naumova, Sofia Fadeevna; Jurina, Olga Demidovna; an Yarovaya, Galina Dmitrievne, 3,674,496.
Lark Luggage Corporation: *See—*
Laurita, Joseph N., 3,692,155.
Larka, Vincent E., to GTE Laboratories Incorporated. Object detection apparatus. 3,681,750, 8-1-72, Cl. 340-16.00r.
Larker, Hans: *See—*
Nilsson, Jan; and Larker, Hans, 3,698,220.
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Larkfeldt, Birger; and Petersson, Rolf. Ventilated fluorescent tube fixture. 3,693,530, 9-26-72, Cl. 98-40.0dl.
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Larkin, Clyde F., Jr. Method for metering a cleaning solution for a vehicle wheel. 3,660,159, 5-2-72, Cl. 134-32.
Larkin, Donald R.: *See—*
Witt, Enrique R.; and Larkin, Donald R., 3,644,484.
Larkin, Donald R., to Celanese Corporation. Preparation of bis (2-hydroxyalkyl) esters of terephthalic or isophthalic acid. 3,706,785, 12-19-72, Cl. 260-475.0pr.
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Larkin, John M.; and Chafetz, Harry, to Texaco Inc. Process for producing alkanolic acids from nitroketones. 3,661,950, 5-9-72, Cl. 260-413.
Larkin, Mark E., to Phillips Petroleum Company. Method and apparatus for forming plastic-lined metal conduit. 3,639,970, 2-8-72, Cl. 29-411.
Larkin, Robert B., to Mills Products, Inc. Thermostatically controlled heat shield for window units in pyrolytic ovens. 3,643,647, 2-22-72, Cl. 126-198.
Larkin, Sam. Wire mesh making. 3,651,834, 3-28-72, Cl. 140-3.
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Larkin, Thomas J., to Cartridge Television, Inc. Tape guide system having pick-up elements with conical engaging surfaces for tape course conversion. 3,665,120, 5-23-72, Cl. 179-100.2.
Larkin, Thomas J., to Cartridge Television, Inc., mesne. Video tape pick-up and guide system for cartridge type reproducing and/or recording system. 3,673,348, 6-27-72, Cl. 179-100.20f.
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Self, Aaron C.; and Larkins, James J., 3,688,052.
Larmurier, Claude Fernand Emile: *See—*
Ducousset, Robert Eugene Raymond; Larmurier, Claude Fernand Emile; and Rolland, Jean-Noel Gaston Andre, 3,631,875.
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LaRocca, Aldo V. Propellant device. 3,636,709, 1-25-72, Cl. 60-203.
Laroche, Robert. Cutting device for fibrous materials. 3,651,726, 3-28-72, Cl. 83-169.
Larocque, Jacques: *See—*
Beaudoin, Jean Paul; Hogue, Hiral; and Larocque, Jacques, 3,695,423.
Larocque, Patricia Powers: *See—*
Beaudoin, Jean Paul; Hogue, Hiral; and Larocque, Jacques, 3,695,423.
Larosa, Charles N.: *See—*
Simms, Bernard B.; Stein, Alvin A.; and Larosa, Charles N., 3,696,621.
Larraburu, Philip Michel, to CK Optical Co., Inc. Anamorphic lens systems. 3,644,037, 2-22-72, Cl. 355-52.
Larralde, Edward: *See—*
Hanes, James W. E.; and Larralde, Edward, 3,647,245.
Larre, Frank J. Coin operated manually selective tape cartridge player. 3,707,213, 12-26-72, Cl. 194-6.000.
Larrieu, Leslie J., to Kirk, Morris P., & Son, Inc. Zinc base casting alloy. 3,679,404, 7-25-72, Cl. 75-178.0am.
Larrigan, Harry J.: *See—*
Edwards, James W.; Larrigan, Harry J.; and Mays, Shelly W., Jr., 3,665,851.
Larrinaga, John; and Jones, Charles, to Curtiss-Wright Corporation. Fluid seal for piston of rotary piston mechanism. 3,674,384, 7-4-72, Cl. 418-120.000.
Larrison, John E., to Hughes Aircraft Company. Apparatus for handling and bonding flip-chips to printed circuit substrates. 3,657,790, 4-25-72, Cl. 29-203.
Larrison, Millard S.: *See—*
Rattenbury, Kenneth; and Larrison, Millard S., 3,697,627.
Rattenbury, Kenneth H.; and Larrison, Millard S., 3,692,879.
Larrison, Spencer Lee. Musical instrument. 3,691,285, 9-12-72, Cl. 84-1.160.
Larrivec, Jerry J.: *See—*
Dentch, Milton P.; Jodrey, Robert M.; Gucstella, Samuel L.; and Larrivec, Jerry J., 3,690,297.
Larry, John R., to Du Pont de Nemours, E. I., and Company. Method of improving line resolution in screen printing. 3,672,934, 6-27-72, Cl. 117-38.000.
Lars, Solve: *See—*
Delin, Per Staffan; Kiessling, Karl Hans Fritz; Thelin, Karl Hugo; and Lais, Solve, 3,684,658.
Larsen, Arthur B.: *See—*
Enloe, Louis H.; and Larsen, Arthur B., 3,644,665.
Larsen, Arthur B., to Bell Telephone Laboratories, Incorporated. Heterodyne scanning system for hologram transmission. 3,636,249, 1-18-72, Cl. 178-6.5.
Larsen, Arthur Bertel; Sosnowski, Thomas Patrick; and Townsend, Richard Lee, Jr., to Bell Telephone Laboratories, Incorporated. Single-tube color cameras with optical spatial frequency filters. 3,681,519, 8-1-72, Cl. 178-5.0st.
Larsen, Arthur Bertel, to Bell Telephone Laboratories, Incorporated. Color television system with automatic correction of chroma amplitudes. 3,699,241, 10-17-72, Cl. 178-5.4ac.
Larsen, Arthur L., to Marathon Oil Company. Film forming hydrazine-containing corrosion inhibitor. 3,645,896, 2-29-72, Cl. 252-8.55.

- Larsen, Arthur L. Process for regenerating resins of deionization system. 3,691,109, 9-12-72, Cl. 260-2.10r.
Larsen, Arthur Lee, to Marathon Oil Company. Detergent gasoline composition. 3,639,110, 2-1-72, Cl. 44-72.
Larsen, Aubrey A.; and Uloth, Robert H., to Mead Johnson & Company. N-(alkyl) alkanesulfonamidophenethanolamines. 3,660,487, 5-2-72, Cl. 260-556.
Larsen, Charles A.: *See—*
Mousseau, Daniel J.; and Larsen, Charles A., 3,691,626.
Larsen, Donald W., to Grace, W. R., & Co. Synthesis of poly(allyl urethanes). 3,645,982, 2-29-72, Cl. 260-77.5.
Larsen, Earl I.: *See—*
Krock, Richard H.; and Larsen, Earl I., 3,668,758.
Larsen, Earl I. Tungsten-nickel-iron-molybdenum die casting shaping members. 3,656,731, 4-18-72, Cl. 249-135.
Larsen, Earl I.; and Krock, Richard H., to Mallory, P. R., & Co., Inc. Bonding of metallic members with lithium and lithium containing alloys. 3,668,755, 6-13-72, Cl. 29-199.000.
Larsen, Elmer L., to McGraw-Edison Company. Constant torque device for meter reading system. 3,664,197, 5-23-72, Cl. 74-1.500.
Larsen, Eric R.: *See—*
Exner, Jurgen H.; Larsen, Eric R.; and Gunsher, Jeffrey A., 3,688,001.
Larsen, Eric R.; Keller, Albert Kent; and Piepys, Raymond A., to Dow Chemical Company, The. Method of preparing chloroacetyl chloride. 3,674,664, 7-4-72, Cl. 204-158.00r.
Larsen, Gregory J., to Wayne Manufacturing Company. Road sweeper suction hood draft connection. 3,634,903, 1-18-72, Cl. 15-340.
Larsen, Gregory J., to Wayne Manufacturing Company. Road sweeper suction and dirt chamber connection. 3,634,904, 1-18-72, Cl. 15-340.
Larsen, Gregory J., to Wayne Manufacturing Company. Runway or street sweeper. 3,636,585, 1-25-72, Cl. 15-340.
Larsen, Gunnar Hartvig: *See—*
Bye-Jorgensen, Jorgen Steen; and Larsen, Gunnar Hartvig, 3,658,182.
Larsen, Hans-Ole: *See—*
Wolff, Per; and Larsen, Hans-Ole, 3,637,539.
Wolff, Per; and Larsen, Hans-Ole, 3,637,540.
Larsen, Helge: *See—*
Palyi, Leslie; and Larsen, Helge, 3,703,200.
Larsen, Jack H.; Trier, Louis J.; and Rytina, Anton W., to Brunswick Corporation. Wearable disposable covering of heat shrink film. 3,634,954, 1-18-72, Cl. 36-7.3.
Larsen, John, to Fyens Saekkekom-pagni A/S. Method of and apparatus for filling a tube or a hose with a solid material, preferably sand. 3,692,070, 9-19-72, Cl. 141-1.000.
Larsen, Kenneth M.: *See—*
Hammond, Seymour B.; and Larsen, Kenneth M., 3,653,587.
Larsen, Kurt K., to Blue Giant Equipment of Canada Limited. Straddle assembly. 3,638,961, 2-1-72, Cl. 280-150.
Larsen, Lester J., to Bendix Corporation. The. Hydraulic boost device with emergency fluid supply. 3,633,363, 1-11-72, Cl. 60-51.
Larsen, Preben, to Danfoss A/S. Washing machine. 3,645,117, 2-29-72, Cl. 68-140.
Larsen, Raymond B., to Datel Corporation. Coaxial reel tape transport system. 3,684,208, 8-15-72, Cl. 242-188.000.
Larsen, Reid S.: *See—*
Walker, Grant W.; Ford, Duane B.; Meinzer, Lester N.; and Larsen, Reid S., 3,695,583.
Larsen, Reidar G.: *See—*
Pierini, John M.; Sarazen, John C.; and Larsen, Reidar G., 3,689,865.
Larsen, Richard D.; and Miller, Harold E., to Curbmaster of America, Inc. Slip form curb and cutter machine. 3,635,131, 1-18-72, Cl. 94-46.
Larsen, Ronald L., to Conwed Corporation. Method for bias cutting a tubular net. 3,674,898, 7-4-72, Cl. 264-146.000.
Larsen, Stein: *See—*
Fredrikson, Bengt; Larsen, Stein; and Suvanto, Erkki, 3,685,570.
Larsen, Tor G.: *See—*
Johannsmeyer, Karl-Heinz; Stoff, Paul E.; and Larsen, Tor G., 3,683,195.
Larsen, William R.: *See—*
Hindin, Saul G.; Dettling, Joseph C.; and Larsen, William R., 3,650,989.
Larsh, Everett P. Marine vessel roll stabilizer apparatus. 3,687,100, 8-29-72, Cl. 114-126.000.
Larson, Ake L.: *See—*
Goodkind, Karen B.; Hamilton, Brett B.; Larson, Ake L.; and Whittington, Jimmie L., 3,667,136.
Larson, Allen E.: *See—*
Hoffman, William D.; and Larson, Allen E., 3,655,414.
Larson, Alworth D.; Braymer, Hugh D.; and Broussard, Evest A., III, to Research Corporation. Method for bacterial proteinase. 3,692,631, 9-19-72, Cl. 195-66.00r.
Larson, Carl B.; and Gimbel, William T. Apparatus for conveying, handling, loading, and unloading of palletized materials. 3,675,801, 7-11-72, Cl. 214-310.000.
Larson, Charles L.: *See—*
Rubin, Bernard F.; Larson, Charles L.; and Grossman, Leonard N., 3,632,470.
Larson, Charles O., to Larson, Chas. O., Co. Adjustable hanger device. 3,638,801, 2-2-72, Cl. 211-57.
Larson, Charles O., to Larson, Chas. O., Co. Sawhorse bracket assembly. 3,656,581, 4-18-72, Cl. 182-224.
Larson, Charles O., to Larson, Chas. O., Co. Panel fastener clip. 3,656,786, 4-18-72, Cl. 287-189.35.
Larson, Charles O., to Larson, Chas. O., Co. Display stand. 3,693,807, 9-26-72, Cl. 211-163.000.
Larson, Charles O., to Larson, Chas. O., Co. Display stand. 3,695,455, 10-3-72, Cl. 211-78.000.
Larson, Charles R.; and Dudley, Robert H., to Prab Conveyors, Inc. Continuous chip processing system. 3,656,620, 4-18-72, Cl. 210-110.
Larson, Charles R.; and Dudley, Robert H., to Prab Conveyors, Inc. Metal and plastic chip wringing apparatus and process. 3,679,051, 7-25-72, Cl. 210-73.000.
Larson, Chas. O., Co.: *See—*
Larson, Charles O., 3,638,801.
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Larson, Clarence E.; and Dawley, Richard H., to Martin-Marietta Corporation. Constant volume discharge gate. 3,655,104, 4-11-72, Cl. 222-317.
Larson, Clarence E.; and Schneider, Harold G., to Martin-Marietta Corporation. Lifting tongs. 3,697,117, 10-10-72, Cl. 294-106.000.
Larson, Daniel A., to Westinghouse Electric Corporation. High-pressure gaseous discharge lamp including a starting electrode. 3,634,718, 1-11-72, Cl. 313-198.
Larson, Donald J.: *See—*
Hufeld, John L.; Larson, Donald J.; Marsden, Howard A.; Mueller, James P.; and Norick, William B., 3,680,588.
Larson, Eugene R., to Textron, Inc. Self-thread-forming fastener with easy thread pickup. 3,633,455, 1-11-72, Cl. 85-46.
Larson, Eugene R. Method of making a self-thread forming fastener with easy thread pickup. 3,683,437, 8-15-72, Cl. 10-10.000.
Larson, Floyd G., Jr.; and De Barbadillo, John J., II, to International Nickel Company, Inc., The. Austenitic stainless steels adapted for exhaust valve applications. 3,649,251, 3-14-72, Cl. 75-128.
Larson, Floyd L.: *See—*
Davis, Louis E.; Jensen, Billy M.; Larson, Floyd L.; Huck, Rainer F.; and Stumph, Stephen L., 3,670,386.
Larson, Gary B., to MacDermid Incorporated. Colored phosphate coatings and method of application. 3,647,568, 3-7-72, Cl. 148-6.15.
Larson, Gustav Olof. Negative logarithm-decimal conversion. 3,639,733, 2-1-72, Cl. 235-69.
Larson, Harold A.: *See—*
Anzelone, Thomas A., Jr.; Larson, Harold A.; and Stricker, Alfred A., 3,677,853.
Larson, Harry T.; and Loewe, Richard T. Encoding device. 3,697,687, 10-10-72, Cl. 178-18.000.
Larson, Howard M. Foldable crawler. 3,677,569, 7-18-72, Cl. 280-32.600.
Larson Industries, Inc.: *See—*
Barriball, Richard D.; Farris, William T.; Gross, George F.; and Walters, Charles W., 3,635,483.
Geiger, Earl E., 3,634,898.
Ross, Vernon B., 3,634,884.
Larson, Ivar G. Ball-point pen safety lock. 3,679,317, 7-25-72, Cl. 401-109.000.
Larson, James H., to Graco Inc. Spray gun. 3,633,828, 1-11-72, Cl. 239-412.
Larson, James H., to Graco Inc. Pump. 3,669,516, 6-13-72, Cl. 308-36.100.
Larson, Jay Michael; Polonis, Douglas Hugh; and Taggart, Raymond. Disc jet electropolishing apparatus and method. 3,657,083, 4-18-72, Cl. 204-140.5.
Larson, Jerry K.: *See—*
Goldman, Irving M.; and Larson, Jerry K., 3,676,428.
Larson, John F.; and Polashenski, Walter A., to Sylvania Electric Products, Inc. Methods and apparatus for the manufacture of color cathode ray tube screens. 3,638,275, 2-1-72, Cl. 15-304.
Larson, John F.; and Polashenski, Walter A., to Sylvania Electric Products, Inc. Apparatus for the manufacture of color cathode ray tube screens. 3,660,865, 5-9-72, Cl. 15-415.000.
Larson, Joseph A., to Sparta Brush Co., Incorporated. Shoe brush and scraper. 3,657,761, 4-25-72, Cl. 15-112.
Larson, Kenneth R., to Snap-On-Tools Corporation. Adjustable torque wrench translating devices. 3,633,418, 1-11-72, Cl. 73-139.
Larson, Kenneth R., to Snap-On-Tools Corporation. Portable testing and checking apparatus with adjustable mounts. 3,675,464, 7-11-72, Cl. 73-1.00c.

- Larson, Larry L.: *See—*
United States of America, National Aeronautics and Space Administration, 3,662,547.
- Larson, Leighton W. Bi-valved cast. 3,701,349, 10-31-72, Cl. 128-82.100.
- Larson, Leland B.: *See—*
Clement, Clyde H.; and Larson, Leland B., 3,638,170.
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- Larson, Leland B.; and Clement, Clyde H., 33 1/3 to Shaheen, Eugene G. Key operated meter monitor. 3,670,959, 6-20-72, Cl. 235-94.00r.
- Larson, Leonard G.; Anderson, Bror E.; and Schick, Margery L., to Weber Marking Systems, Inc. Thermographic stencil sheet and method of making an imaged stencil sheet. 3,694,244, 9-26-72, Cl. 117-35.500.
- Larson, Lester L.: *See—*
DeVey, William J.; and Larson, Lester L., 3,663,832.
- Larson, Leward M.: *See—*
Drown, George C., 3,675,198.
- Larson, Louis P.; Repking, Edward F.; and Wagner, Gary L., to Crown Zellerbach Corporation. Pallet. 3,691,964, 9-19-72, Cl. 108-51.000.
- Larson, Marlow W. Range finder and bow sight device. 3,696,517, 10-10-72, Cl. 33-265.000.
- Larson, Melvin E., to Rospach Corporation. Forward horizontal packer. 3,668,823, 6-13-72, Cl. 53-250.000.
- Larson, Melvin L., to American Metal Climax Inc. Lubricant composition containing molybdenum naphthenate. 3,691,073, 9-12-72, Cl. 252-24.000.
- Larson, Ralph H., to Bendix Corporation, The. Pneumatic oscillator. 3,631,879, 1-4-72, Cl. 137-119.
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Smollen, Leonard E.; Larson, Ralph I., Jr.; and Karr, Gerald H., 3,633,984.
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King, John H.; and Larson, Russell W., 3,683,156.
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Johnston, Harold K.; and Larson, Theodore L., 3,702,273.
Pouli, Dirk; and Larson, Theodore L., 3,682,709.
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Hartlein, Robert C.; Kiles, James D.; Larson, Willard D.; and Olson, Carl R., 3,670,649.
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Karlin, Bengt Haldo; and Larsson, Bengt Lars, 3,637,235.
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Souder, Louis C.; Larsson, Bjorn E.; and Ryan, Charles F., 3,655,825.
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Nilsson, Harry; and Larsson, Gunnar, 3,704,834.
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Godin, Stig Olof; and Larsson, Karl Robert, 3,646,643.
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Kosco, William C., 3,684,926.
Mitchell, Archibald S., 3,669,557.
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Gardner, Tommy R.; Lasater, Reginald M.; and Knox, John A., 3,639,279.
Knox, John A.; Keeney, Bill R.; and Lasater, Reginald M., 3,669,613.
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Cooper, Roy L., 3,646,540.
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Schneider, Joseph R.; and Schneider, Bruce A., 3,691,894.
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Shipp, John I.; Welch, Nathan E.; and Broadbent, Thomas D., 3,643,101.
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Field, Richard H., 3,642,353.
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Faigenbaum, Mark A.; Lasky, Daniel J.; and Weisel, Harold C., 3,669,665.

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- Lasne, Claude: *See—*
Fally, Jacques; Lazennec, Yvon; and Lasne, Claude, 3,668,010.
- Lass, James L.: *See—*
Mefford, Carl R.; Lass, James L.; Smith, Bart A.; Venier, Dominic A.; and Trocki, Thomas, 3,697,376.
Smith, Bart A.; Lass, James L.; and Venier, Dominic A., 3,689,358.
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Weld, Foster E.; Lassell, Robert W.; and McLeod, Robert B., 3,673,329.
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- Lassere, Jean: *See—*
Jaubert, Pierre; and Lassere, Jean, 3,693,218.
- Lasslo, Andrew: *See—*
Quintana, Ronald P.; Garson, Lorrin R.; and Lasslo, Andrew, 3,668,226.
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- Lassman, Benjamin & Son, Inc.: *See—*
Lassman, Benjamin, 3,674,406.
- Lassonnery, Jean: *See—*
Zelter, Zelmen; Delort-Laval, Jean; Lassonnery, Jean; and Rodeaud, Jacques, 3,632,351.
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Sidorov, Oleg Pavlovich; Ryabtsev, Pavel Sergeevich; and Lastochkin, Rostislav Ivanovich, 3,675,102.
- Lastochkina, Nadezhda Andreevna: *See—*
Sidorov, Oleg Pavlovich; Ryabtsev, Pavel Sergeevich; and Lastochkin, Rostislav Ivanovich, 3,675,102.
- Lastochkina, Tatyana Rostislavovna: *See—*
Sidorov, Oleg Pavlovich; Ryabtsev, Pavel Sergeevich; and Lastochkin, Rostislav Ivanovich, 3,675,102.
- Lastovenko, Valentin Andreevich: *See—*
Portyanko, Andrei Ivanovich; Lastovenko, Valentin Andreevich; Dudka, Viktor Vasilievich; Rodenko, Fedor Leontievich; Onischenko, Grigory Ivanovich; Vatkin, Adolf Semenovich; Pokusa, Alexei Alexandrovich; and Ruzin, Ivan Mikhailovich, 3,654,997.
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Szumilas, Wladislaw; Adam, Macedon Emil; Lata, Ilie; and Muresan, Gheorghe, 3,685,793.
- Latal, Werner, to Aktiengesellschaft Brown, Boveri & Cie. Lightning arrester. 3,657,594, 4-18-72, Cl. 315-36.
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Baglai, Vitaly Mikhailovich; Latash, Jury Vadimovich; and Medovar, Boris Izrailevich, 3,667,719.
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- Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Pentegov, Igor Vladimirovich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; Baglai, Vitaly Mikhailovich; Podola, Nikolai Vasilievich; and Emelianenko, Jury Georievich, 3,665,081.
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Zuev, Ivan Mikhailovich; Gorsky, Anatoly Vasilievich; Medovar, Boris Izrailevich; Anenko, Jury Georgievich Emely; Latashi, Jury Vadimovich; and Bogachenko, Alexei Georgievich, 3,687,189.
- Latchford, Joseph T.: *See—*
Fortin, Michael J.; Latchford, Joseph T.; and Vanden Heuvel, Marinus T., 3,635,612.
- Latham, Allen, Jr., to Cryogenic Technology, Inc. Sterile washing method and apparatus. 3,634,228, 1-11-72, Cl. 210-21.
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Brefka, Paul E.; and Latham, Peter A., 3,666,140.
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- Lathery, Willie M.: *See—*
King, James Frank; Beamon, Howard L.; Lathery, Willie M.; and Newlen, Kenneth W., 3,690,276.
- Lathrop, Raymond, to Vernitron Corporation. Linear motion motor with rectangular coil construction. 3,659,124, 4-25-72, Cl. 310-13.
- Latimer, Erwin D.: *See—*
Stout, Daniel W.; and McGinnes, Henry M., 3,693,718.
- Latimer, John P.: *See—*
Garland, Charles; Victory, James J.; and Latimer, John P., 3,666,098.
- Latinsics, Nandor K.: *See—*
Hrinko, Peter, Jr.; Krause, Irving; and Latinsics, Nandor K., 3,693,561.
- Latinen, George A.: *See—*
Butler, Robert G.; Carter, Don E.; and Latinen, George A., 3,700,247.
- Latinen, May V.: *See—*
Butler, Robert G.; Carter, Don E.; and Latinen, George A., 3,700,247.
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Johnston, Norris; and Latker, Mark, 3,667,601.
- Latone, Salvatore: *See—*
Stokes, David Roth; Latone, Salvatore; and Jordan, William E., 3,702,131.
- Latos, Edwin J.: *See—*
Sparks, Allen K.; and Latos, Edwin J., 3,645,966.
- Latos, Edwin J.; and Rosenwald, Robert H., to Universal Oil Products Company. Synergistic composition and use thereof. 3,635,823, 1-18-72, Cl. 252-32.5.
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Ollinger, James C.; Wolf, Herbert R., Jr.; and Latour, Yves, 3,695,395.
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Fletcher, Stewart G., 3,649,256.
Fletcher, Stewart G., 3,649,257.
Fletcher, Stewart G., 3,681,061.
Fletcher, Stewart G.; and Haswell, Walter T., Jr., 3,692,515.
- Latschbacher, Kajetan. Wood marking tags. 3,673,717, 7-4-72, Cl. 40-2,000.
- Latshaw, Don: *See—*
Watson, Gerard L.; and Latshaw, Don, 3,694,658.
- Latta, Garland H.: *See—*
Furois, Philippe C.; and Latta, Garland H., 3,644,756.
- Latten, Werner: *See—*
Riedrich, Alfred; and Latten, Werner, 3,651,698.
- Lattion, Andre, to Rieter Machine Works Ltd. Double apron drafting arrangement for spinning machines. 3,696,468, 10-10-72, Cl. 19-55,000.
- Latke, Horst G., to Emhart Corporation. Tray forming apparatus. 3,683,755, 8-15-72, Cl. 93-51,100.
- Latus, Gerald J., Jr.: *See—*
Addington, Robert L.; and Latus, Gerald J., Jr., 3,680,006.
- Latussek, Hanns Peter: *See—*
Ott, Hanns; and Latussek, Hanns Peter, 3,705,752.
- Lau, Dickson T. W. Registering and calling system for waiting numbers. 3,641,553, 2-8-72, Cl. 340-286.
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- Lau Incorporated: *See—*
Smith, James L., 3,680,974.
- Lau, Inge: *See—*
Van Stappen, Albert Louis; Schwarz, Karl; and Weber, Hans, 3,707,376.
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- Laub, Henry W.: *See—*
Loftfield, Richard E.; and Laub, Henry W., 3,707,454.
- Laub, Henry William: *See—*
Barbato, Alexander Louis; Laub, Henry William; and Loftfield, Richard Eric, 3,689,384.
- Laub, Joseph L., to Unitex Corporation. Arm assembly for bonding apparatus. 3,664,567, 5-23-72, Cl. 228-3.
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Kurz, Gunter; Laube, Karlheinz Otto; and Martinelli, Alfred Adalbert, 3,694,162.
- Lauben, Robert W.: *See—*
Beaudoin, Norman R.; and Lauben, Robert W., 3,632,932.
- Laubenstein, Priscilla. Multisensory learning aid device. 3,659,359, 5-2-72, Cl. 35-70.
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- Laubie, Michel: *See—*
Bereg, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Laubie, Michel, 3,651,122.
Malen, Charles; and Laubie, Michel, 3,657,276.
Malen, Charles; Danec, Bernard; and Laubie, Michel, 3,705,167.
Regnier, Gilbert; Canevari, Roger; and Laubie, Michel, 3,647,794.
- Lauchlan, Robert L.: *See—*
Snodgrass, Hugh E.; and Lauchlan, Robert L., 3,639,499.
Snodgrass, Hugh E.; and Lauchlan, Robert L., 3,665,058.
- Lauchlan, Robert L., to Uniroyal, Inc. Thermoplastic resin blend of polysulfone resin and an ethylene-propylene terpolymer or graft derivative thereof. 3,641,207, 2-8-72, Cl. 260-876.
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- Lauck, John E.: *See—*
MacPhail, Alexander C. B.; Lauck, John E.; and Wendler, Kenneth T., 3,634,239.
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Hasbrouck, Augustus; and Lauck, Lawrence J., 3,702,681.
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- Lauckhardt, Gerhard: *See—*
Muhlbach, Anton; and Lauckhardt, Gerhard, 3,673,300.
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- Laucks, Howard H.: *See—*
Hague, Robert Z.; Laucks, Howard H.; and Mastropole, Alfred J., 3,678,801.
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Vitcha, Edward T.; Hooker, Leslie A.; and Lauder, Richard P., 3,636,605.
- Lauderback, Jarvis K.; and Converse, George F., to Eastman Kodak Company. Dispersion of azobenzene compounds and ammonium hydroxy-naphthoic acid salts in an aqueous dye composition. 3,634,015, 1-11-72, Cl. 8-46.
- Lauderback, William H.: *See—*
Snodgrass, Duane S.; and Lauderback, William H., 3,693,884.
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Triplett, Robert D.; and Laue, Terry J., 3,637,224.
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Lanzendorfer, Max J.; Lauer, Marvin E.; and Wonnner, Robert K., 3,648,577.
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Henley, Virgil E.; and Lauer, Walter W., 3,671,358.
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Henley, Virgil E.; and Lauer, Walter W., Jr., 3,645,826.
- Lauerer, Albert: *See—*
Bergmeyer, Hans Ulrich; Naher, Gotthilf; Thum, Waldemar; Lauerer, Albert; and Emmer, Rudolf, 3,677,901.
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McKenna, John Patrick; Keeling, Richard J.; and Lauersdorf, Duane H., 3,688,007.
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Holzer, Walter; and Lauffer, Konrad, 3,651,701.
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Hanning, Robert; Meise, Kurt; Brinkmann, Willi; and Lauffer, Wilfried, 3,657,838.
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Kostas, James M.; Norick, William B.; and Laughlin, Raymond R., 3,656,642.

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Gosselink, Eugene P.; and Laughlin, Robert G., 3,654,359.
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Brewer, Waldo L.; and Laukaitis, Joseph F., 3,700,320.
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Stoltze, Leon; and Laun, Fred David, 3,659,306.
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Rule, Arthur W. T.; Shimmin, Roy E.; and Laundy, Timothy, 3,639,605.
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John, E. Roy; and Laupheimer, Robert, 3,696,808.
John, Erwin Roy; and Laupheimer, Robert, 3,706,308.
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Frederiksen, Erik, 3,697,736.
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Reeves, Alec Harley; Ramsay, Melvin Murray; Mounter, Anthony Edmund; and Laurence, Simon French, 3,705,307.
- Laurens, Marc: *See—*
Bideau, Max A.; Chauveton, Charles E.; Fruchard, Alain; and Laurens, Marc, 3,692,524.
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Cook, Gordon Henry; and Laurent, Francois Rene, 3,682,534.
- Laurent, Henry: *See—*
Wiechert, Rudolf; and Laurent, Henry, 3,644,441.
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Neuville, Claude Marie Daniel; Quenouille, Georges Emile; Squarcioni, Andre; and Laurent, Jean-Joel Marcel Gustave, 3,662,366.
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Lester, Frank Backus; Laurent, Robert Parker; and Titmore, Robert George, 3,696,704.
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Bargain, Michel; Gruffaz, Max; Laurent, Serge; and Mallet, Maurice, 3,679,639.
- Laurentian Concentrates Limited: *See—*
Butler, James W., 3,669,898.
- Laurenty, Francois: *See—*
Gaillard, Alphonse; and Laurenty, Francois, 3,694,167.
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Gaillard, Alphonse; and Laurenty, Francois, 3,694,167.
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Harris, Richard H.; and Laurer, George J., 3,662,138.
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Horowitz, Isaac; Laurich, Lawrence A.; and Niccore, Fred W., 3,646,452.
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Nielsen, Vagn; Lauridsen, Jens Birk; and Jensen, Kristian Stistrup, 3,691,150.
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Pomella, Piero; Baratto, Elia; and Lauro, Luciano, 3,696,398.
Pomella, Piero; and Lauro, Luciano, 3,703,327.
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Burbank, John Emerson; Lautenberger, William Henry; and Fasciano, Patrick John, 3,634,922.
- Lautenschlager, Helmut, to Aktiengesellschaft Brown, Boveri & Cie. System for applying pilot control to the roll gap adjustment of a gauge-controlled cold rolling stand. 3,648,494, 3-14-72, Cl. 72-8.
- Lauterbach, Guido James: *See—*
Saltzer, Joseph M., Sr.; Coult, Roger L.; and Lauterbach, Guido James, 3,632,967.
- Lauterbach, Norman H.: *See—*
Moore, Robert M.; Lauterbach, Norman H.; and Armstrong, David P., 3,655,968.
- Lauterbach, Peter: *See—*
Juchmann, Heinz; and Lauterbach, Peter, 3,673,308.
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Breer, Karl; and Lauterbach, Udo, 3,638,915.
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Stephan, Gerhard; Harst, Heinz; Laux, Gunter; and Kappes, Alfred, 3,640,799.
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- Papee, Denis; and Lavalou, Michel, 3,701,718.
- Lavanant, Pierre: *See—*
- Jacob, Jean-Baptiste; and Lavanant, Pierre, 3,683,162.
- Lavander, Edward J.: *See—*
- Vlach, John J.; Baker, James B.; Burnham, Edward H.; Lavander, Edward J.; and Schluntz, Gary L., 3,649,114.
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- Lecht, Charles P.; Harden, William O.; Lavell, Matthew J.; Kos, Stanley M.; and Pace, Robert A., 3,660,645.
- Lavelle, Michael R. Safety device monitoring system. 3,696,364, 10-3-72, Cl. 340-252.00r.
- Lavender, James F.: *See—*
- Vandermaas, Joseph K.; Rikard, Larry J.; Dunlap, Robert K.; and Lavender, James F., 3,690,942.
- Lavender, John F., to Lilly, Eli, and Company. Live attenuated rabies virus vaccine and process therefor. 3,674,862, 7-4-72, Cl. 424-89.000.
- Lavender, William James: *See—*
- Vaneldik, Jan Frederik; Wilson, Ronald Ian; Kampjes, Gerrie Richard; and Lavender, William James, 3,705,478.
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- Laventman, Vilyam Efimovich: *See—*
- Ilayashenko, Georgy Alexandrovich; Laventman, Vilyam Efimovich; Lichman, Nikolai Iosifovich; Rabinovich, Iosif Moiseevich; and Ryaboi, Nikolai Yakovlevich, 3,632,281.
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- Mallonee, William C.; and Laverette, Samuel R., 3,633,256.
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- Cohen, Michel; Lavigne, Pierre; and Sauvagnac, Robert, 3,678,920.
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- Dicus, Allen B., Jr.; Kharasch, Arnold S.; and Lavin, Sheldon, 3,682,063.
- Lavinder, Taylor Franklin, to Du Pont de Nemours, E. I., and Company. Method. 3,668,948, 6-13-72, Cl. 76-107.00s.
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- Domian, Robert E.; and Laviolette, Paul A., 3,665,631.
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- Darcas, Claude; Jobert, Raymond; and Laviron, Charles, 3,699,148.
- Lavis, Walter J. Removable cover for spray gun. 3,674,074, 7-4-72, Cl. 150-52.00p.
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- Meneidis, Petros G., 3,642,396.
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- Bokov, Jury Sergeevich; Vikulina, Ninel Vladimirovna; Dogadkin, Boris Aristarkhovich; Erofeev, Boris Vasilievich; Larina, Anastasia Vasilievna; Lavrishchev, Vadim Petrovich; Markov, Vladimir Vladimirovich; Naumova, Sofia Fadeevna; Jurina, Olga Demidovna; an Yarovaya, Galina Dmitrievna, 3,674,496.
- Lavrov, Alexandr Sergeevich: *See—*
- Rutes, Viktor Savclievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballard, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, Anatoly Ivanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosenchenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.
- Law, Derek A.: *See—*
- Braid, Milton; and Law, Derek A., 3,682,980.
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- Garvin, Hugh L.; Herman, Elvin E.; and Law, Russell R., 3,659,510.
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- Scarnato, Thomas J.; Dryan, James J.; Lawler, Craig M.; and Sorensen, Robert, 3,678,671.
- Lawler, William P.: *See—*
- Cichoski, Sylvester A.; Damon, Paul H.; Golembeski, Ronald J.; and Lawler, William P., 3,687,778.
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- Lawner, Arnold M.: *See—*
- White, Jerome R.; and Lawner, Arnold M., 3,662,861.
- Lawrence, Derek Robert: *See—*
- Edgar, Owen Burchell; Hughes, William; Lawrance, Derek Robert; Lederer, Gerald; and Ritchie, Colin Foster, 3,679,624.
- Lawrence, Benjamin: *See—*

- Patel, Jayantilal M.; Wolfson, Alan B.; and Lawrence, Benjamin, 3,700,464.
- Wolfson, Alan B.; Patel, Jayantilal M.; and Lawrence, Benjamin, 3,671,262.
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- Foltz, Robert E., 3,662,493.
- Gehrke, Howard G., 3,669,395.
- Johnson, Larry K.; and McInchin, Delmar D., 3,662,429.
- Lawrence, Charles H.: *See—*
- Murphy, Frank W., Jr.; Sparks, Buddy G.; Lawrence, Charles H.; and Rickard, Donald R., 3,688,577.
- Lawrence, Charles R., to Murphy, Frank W., Manufactures, Inc. Pressure indicating and limiting instrument. 3,678,758, 7-25-72, Cl. 73-411.000.
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- Dray, Robert F.; and Lawrence, Donald L., 3,650,652.
- Lawrence, Eileen: *See—*
- Lawrence, Richard E., 3,669,042.
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- Foerster, George S.; and Lawrence, Garth D., 3,637,440.
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- Murphy, Peter C.; and Lawrence, J. Richard, 3,669,656.
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Ogden, Ralph; and Lawson, William P., 3,634,644.
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Steed, Frank Streeton; and Lawson-Tancred, Henry, 3,675,799.
- Lawsser, Claude: *See—*
Besson, Rene; Lawsser, Claude; and Rochat, Daniel, 3,702,530.
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Jacob, Charles Junior; and Lawton, Gerald Wayne, 3,669,734.
- Lawton, Jacquelyn G.: *See—*
Vrana, Charles K.; and Lawton, Jacquelyn G., 3,668,412.
- Lawton, John Edward: *See—*
Swampillai, Christy Edward Selvanayagam; Savage, Eric John; and Lawton, John Edward, 3,636,233.
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Damman, Cornelis Christiaan; and Lawton, Raymond Joseph, 3,636,614.
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Kokotailo, George T.; and Lawton, Stephen L., 3,640,680.
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Breen, Bernard P.; Lawver, Bill R.; and Kliegel, James R., 3,651,644.
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Greene, Aubrey E.; and Layfield, F. F., 3,645,143.
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Jensen, Hans A.; and Layman, Melvin M., 3,645,065.
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Huml, James O.; and Layne, Gilbert S., 3,672,832.
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Rutulius, Uldis; and Layton, Edward Stowe, 3,646,463.
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Layton, Jack D., 3,648,871.
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Borrelli, Nicholas F.; and Layton, Margaret M., 3,639,771.
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Koenecke, William J.; and Lazar, Joel R., 3,654,786.
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Staud, Miloslav; and Lazarev, Anatolij, 3,692,862.
- Lazarian, Vsevolod Arutjunovich: *See—*
Karakashian, Zaven Oganezovich; Lazarian, Vsevolod Arutjunovich; Azarov, Boris Vasilievich; Bolotin, Mikhail Mikhailovich; Pershin, Vladimir Yakovlevich; Timoshuk, Albert Isidorovich; Dragonenko, Anatoly Alexandrovich; Zarakovich, Ilia Yakovlevich; and Svdirov, Mikhail Vasilievich, 3,656,632.
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Curtiss, Robert H.; Holzman, Richard; and Lazarow, Seldan A., 3,673,955.
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Balint, Laszlo J.; Lazarus, Stanley D.; and Russell, William N., 3,689,461.
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Meneghini, Carlo; Mayer, Richard Eugene; Lazarus, Stanley David; and Rainer, Norman Barry, 3,654,679.
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Fally, Jacques; Lazennec, Yvon; and Lasne, Claude, 3,668,010.
- Laznibat, Nick A.: *See—*
Brawner, William H.; Gunsalus, Claude A.; and Rockwell, Lowell K., 3,698,337.
- Lazor, Donald Keith: *See—*
Groteck, Daniel Edward; and Lazor, Donald Keith, 3,653,426.
- Wallick, Claude Rollin, Jr.; Blodgett, William Edward; and Lazor, Donald Keith, 3,664,799.
- Lazott, James B.: *See—*
Helgeland, Walter; Lazott, James B.; Duke, Philip J.; Taggart, William J.; Geacox, George W.; and Brandsma, Abe, 3,645,784.
- Shirn, George A.; and Lazott, James B., 3,686,473.
- Lazovsky, Izrail Mikhailovich: *See—*
Makarov, Gleb Nikolaevich; Zhitov, Boris Nikolaevich; Zagorets, Anatoly Mikhailovich; Korolev, Jury Germanovich; Syskov, Konstantin Ivanovich; Filonenko, Jury Yakovlevich; Dvorin, Semen Semenovich; Lerner, Ruvim Zinovievich; Mustafin, Fuat Akhtemovich; Semnov, Alexandr Semenovich; Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich, 3,667,746.
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Bell, Harry F.; Lazzarini, Donald J.; and Schultz, Lewis K., 3,699,029.
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Hunter, James R.; Lazzarotti, Sebastian James; and Mann, Abe, 3,674,143.
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Block, James P., 3,700,341.
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Marks, Joseph D.; Le Beck, Norman G.; and Allen, Glenn L., 3,674,181.
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Le Blanc, George T.; Le Blanc, Clifford H.; Balmer, Thomas A.; and Hurst, Bobbie G., 3,681,788.
- Le Blanc, George T.: *See—*
Le Blanc, George T.; Le Blanc, Clifford H.; Balmer, Thomas A.; and Hurst, Bobbie G., 3,681,788.
- Le Blanc, George T.; Le Blanc, Clifford H.; Balmer, Thomas A.; and Hurst, Bobbie G., to Le Blanc, George T. and said Balmer and said Hurst assors. to said Le Blanc, Clifford H. Portable showers. 3,681,788, 8-8-72, Cl. 4-147.000.
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Huck, Rodney M.; and Le Blanc, John R., 3,678,008.
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Crandon, Harry D.; and Le Boeuf, Albert R., 3,700,487.
- Le Bras, Louis R.: *See—*
Christenson, Roger M.; and Le Bras, Louis R., 3,663,400.
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Icxi, Jean J. G.; and Tilche, Philippe J., 3,637,468.
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Gautier, Jean Albert; Miocque, Marcel; Fauran, Claude; and Le Cloarec, Albert Yves, 3,632,593.
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Bossonnet, Marc Edgar Marie; Henrion, Michel Andre Robert; and Le Corre, Jean-Pierre, 3,689,701.
- Dupieux, Jacques Georges; Gadre, Jean-Claude; Le Corre, Jean-Pierre; and Loisel, Jean Francois Pierre Julien, 3,678,206.
- Durteste, Bernard Pierre; Henrion, Michel Andre Robert; and Le Corre, Jean-Pierre, 3,692,944.
- Le Corre, Roger Jean: *See—*
Bruniaux, Bernard Jean Pierre Louis Lucien; and Le Corre, Roger Jean, 3,670,683.
- Le Corre, Yvette Marie Laurence: *See—*
Bossonnet, Marc Edgar Marie; Henrion, Michel Andre Robert; and Le Corre, Jean-Pierre, 3,689,701.
- Durteste, Bernard Pierre; Henrion, Michel Andre Robert; and Le Corre, Jean-Pierre, 3,692,944.
- Le Count, David James: *See—*
Barrett, Arthur Michael; Carter, John; Hull, Roy; Le Count, David James; and Squire, Christopher John, 3,663,607.
- Le Creurer, Maurice: *See—*
Regneault, Marcel; and Le Creurer, Maurice, 3,677,256.
- Le Donne, Alex N.: *See—*
Cornish, Alan H.; Helke, Robert C.; Le Donne, Alex N.; and Masters, Hugh E., 3,700,565.
- Le Douarec, Jean-Claude: *See—*
Beregi, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Laubie, Michel, 3,651,122.
- Beregi, Laszlo; Hugon, Pierre; and Le Douarec, Jean-Claude, 3,663,595.
- Beregi, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Duhault, Jacques, 3,683,008.
- Beregi, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Duhault, Jacques, 3,683,088.
- Le Duc, Donald: *See—*
Guyaux, James R.; Le Duc, Donald; and McDonald, Dean T., 3,679,075.
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Andre, Elie; and Le Duc, Jean-Marc, 3,632,431.
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Phung, Nhu Hung; and Le Febvre, Gilles, 3,640,987.
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Carbonnel, Henri; and Le Frere, Jean, 3,656,867.
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Hyde, Gilbert F.; and Le Gates, Ralph W., 3,684,237.
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Guillet, Hubert; and Le Goff, Denis, 3,643,568.
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- Le Goff, Yves: *See—*
Cometti, Andre; Fouche, Jean; and Le Goff, Yves, 3,696,103.
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Bostick, Edgar E.; Gaines, George L., Jr.; and Le Grand, Donald G., 3,634,186.
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Mesnet, Jean Dominique Francois Gerard; Le Guennec, Raymond Louis; and Dadon, Georges Edouard Louis Leon, 3,659,813.
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Girard, Rene Fernand Victor; and Le Guiller, Jacques, 3,669,866.
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Clemence, Francois; and Le Martret, Odile, 3,644,382.
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Brown, Fred A., III; and Le Mere, Roger, 3,697,354.
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Bertin, Jean Henri; Le Nabour, Marcel Pierre; and Giraud, Francois Louis, 3,648,620.
- Le Nickel: *See*—
Gandon, Louis; Jean, Roger; and Lenoble, Philippe, 3,656,937.
Gandon, Louis; Jean, Roger; and Lenoble, Philippe, 3,656,940.
Gandon, Louis; Bozec, Christian; and Lenoble, Philippe, 3,660,020.
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Michel, Francis; Gandon, Louis; Jean, Roger; and Fer, Pierre, 3,660,026.
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Derrien, Michel; and Le Page, Jean Francois, 3,674,888.
Juguin, Bernard; and Le Page, Jean Francois, 3,657,150.
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Vibert, Claude Jacques; and Le Pape, Louis Jean Theodore, 3,702,133.
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Collier, Franck; Dauchy, Jean-Daniel; Le Sergent, Christian; and Michon, Maurice, 3,706,051.
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Chapman, George C.; and Le Sueur, James T., 3,656,924.
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Pagdin, William Gordon; Smith, Walter I.; Smith, Wayne A.; and Le Tendre, Eugene F., 3,669,244.
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Brun, Andre; Orioux, Pierre P.; and Le Therisien, Louis, 3,656,310.
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Le Tourneau, Ted L.; and Lindahl, Hilmer C., 3,633,701.
Magown, Lloyd L., Sr.; and Zillman, Rex L., 3,680,890.
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Berger, John M.; Le Van, James O.; Walton, Richard S.; and Brethauer, Louis G., 3,676,993.
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Allen, William G.; Le Velle, James A.; and Schuh, Frank J., 3,680,631.
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Lane, Kenneth R., 3,707,012.
- Reynolds, Gordon S.; Pannier, Karl A., Jr.; and Sorenson, James L., 3,675,891.
- Reynolds, Gordon S.; Pannier, Karl A., Jr.; and Sorenson, James L., 3,685,517.
- Sorenson, James L.; Reynolds, Gordon S.; and Pannier, Karl A., Jr., 3,704,709.
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Anderson, Gordon H.; Lea, Albert; and Ahlstrom, Raymond C., 3,707,058.
- Lea, Charles A., to Plessey Company Limited, The. Dipole radio antennae. 3,656,167, 4-11-72, Cl. 343-793.
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Nobel, Fred I.; and Ostrow, Barnet D., 3,672,969.
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Boda, Robert A., 3,662,908.
Gollnick, Cyril R., 3,653,522.
- Leach Corporation: *See*—
Boyer, George Wesley, 3,650,495.
Boyer, George Wesley, 3,656,705.
Norris, Kermit A., 3,636,536.
Norris, Kermit A., 3,646,546.
- Leach Corporation, mesne: *See*—
Norris, Kermit A., 3,641,524.
- Leach, David W.: *See*—
Johnson, Robert L.; and Leach, David W., 3,670,612.
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Krammer, Robert, 3,647,048.
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- Marzocchi, Alfred; Benson, Gustav E.; and Leach, Robert E., 3,675,704.
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Rice, Harold D.; and Leach, Sam L., 3,635,778.
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Midulla, Guiseppe, 3,699,046.
- Leacock, Ronald. Geneva gear mechanism. 3,653,275, 4-4-72, Cl. 74-436.
- Lead Metal Kogyo Kabushiki Kaisha: *See*—
Kimura, Tadao, 3,654,788.
- Leadbeater, Douglas Albert, to Salter, George, & Co., Ltd. Electromechanical transducer. 3,701,009, 10-24-72, Cl. 324-61.00p.
- Leadbeater, Edward John: *See*—
Walker, Colin Graham; Leadbeater, Edward John; Darlington, Ralph Fredrick; Traczyk, Edmond Michael; and Kubilos, Charles A., 3,665,809.
- Leader, Patricia J.: *See*—
Taylor, Francis R.; Leader, Patricia J.; and Westerdahl, Raymond P., 3,664,898.
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- Leadore, Toney: *See*—
Berlin, Aaron S.; Little, Vincent C.; and Leadore, Toney, 3,690,258.
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Gaarder, Kenneth R.; and Leaf, William B., 3,641,993.
- Leaf, William Benjamin, 50% to Prototypes, Incorporated. In situ fluorometer using a synchronous detector. 3,649,833, 3-14-72, Cl. 250-71.
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Acton, Edward M.; Leafer, Morris A.; and Stone, Herbert, 3,699,132.
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Rose, Henry J.; Turbak, Albin F.; and Leahy, Thomas E., 3,653,928.
- Leahy, Thomas E., Jr.: *See*—
Rose, Henry J.; Turbak, Albin F.; and Leahy, Thomas E., Jr., 3,674,511.
- Leak, Robert J.: *See*—
Schwager, Irving; Leak, Robert J.; and Cole, Edward L., 3,671,591.
- Leake, John Walgate: *See*—
Coodings, Anthony; and Leake, John Walgate, 3,702,409.
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Vawter, Verne E.; Wilson, William D.; and Leake, Kyle W., 3,633,087.
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Fang, Frank F.; and Lean, Eric G., 3,675,140.
Fang, Frank F.; and Lean, Eric G., 3,679,985.
Harris, Erik P.; Lean, Eric G.; and Powell, Carl G., 3,675,150.
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- Leanza, William J.: *See*—
Christensen, Burton G.; and Leanza, William J., 3,639,382.
Christensen, Burton G.; and Leanza, William J., 3,689,480.
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- Leaper, Rodney Seymour: *See*—
Canell, John Carjeag; Leaper, Rodney Seymour; and Paratt, Noel James, 3,695,335.
- Lear Jet Industries, Inc.: *See*—
Gregory, Elmo M., 3,646,578.
- Lear Siegler, Inc.: *See*—
Anthony, Russell W., 3,651,954.
Anthony, Russell W.; and Motz, Carl H., 3,677,052.
Anthony, Russell W., 3,697,092.
Bregi, Benjamin F.; McNabb, Warren C.; and Daniel, David W., 3,631,703.
Bregi, Benjamin F.; and Tersch, Richard W., 3,635,062.
Bregi, Benjamin F., 3,651,738.
Bregi, Benjamin F.; Motz, Carl H.; and Bassoff, Arthur B., 3,659,335.
Bunting, Thomas A., 3,634,977.
Burklund, Wayne E.; and De Alva, Paul C., 3,682,417.
Buscher, Richard G., 3,688,099.
Caslow, Joseph H.; Huber, Melvin F.; and Wootten, John A., 3,685,697.
Cereghino, Bruce R.; and Rostek, Paul M., 3,639,778.
Cooper, Jack A., 3,686,570.
Daniel, David W.; and Anthony, Russell W., 3,673,887.
Daniel, David W., 3,705,513.
Fujii, Robert L., 3,648,085.
Goodrich, Gordon W., 3,634,959.
Hedrick, Geoffrey S.; Hawkins, Frank H.; and Van Os, William, 3,662,535.
Hedrick, Geoffrey S., 3,679,954.
Hedrick, Geoffrey S., 3,685,034.
Henry, O. Lee; and Pierce, William C., 3,707,298.
Hern, John F.; Surlatta, Zygmunt M.; and Michaluk, Bob D., 3,634,893.
Homier, Robert I.; and Posh, Raymond C., 3,692,271.
Kazmarek, Edward, 3,665,278.
Kempema, James L.; and Foard, Ralph W., 3,697,731.
Lent, Worthington C., 3,689,700.
Litkewycz, Stanley, 3,678,518.
Marshall, William A.; Lunkwicz, Bernard Paul; and Meresz, Henry, 3,638,636.
McGarvey, Charles E., 3,670,242.
Menn, Bruce E., 3,666,929.
Miller, Justin G., 3,665,465.
Miller, Justin G., 3,698,669.
Moses, Adrian J., 3,670,148.
Motz, Carl H.; Tersch, Richard W.; and Bassoff, Arthur B., 3,636,744.
Osborn, Fredrick W.; Hedrick, Geoffrey S.; and Prasse, William A., 3,660,830.
Psenka, Joseph A., 3,656,401.
Robinson, David S.; and Gavagan, James A., 3,662,984.
Robinson, David S., 3,669,398.
Skalsey, Lily G., 3,654,797.
Skalsey, Lily G., 3,670,625.
Tutt, Richard D., 3,696,731.
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Scott-Monck, John A.; and Learn, Arthur J., 3,660,154.
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Hunt, George H.; and Learn, Jonathan R., 3,632,680.
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Alliegro, Richard A.; and Learned, Addison W., III, 3,683,828.
- Learned, Allen J.; and Provance, Jason D., to Bourns, Inc. Thick-film electric-pulse transformer. 3,659,240, 4-25-72, Cl. 336-200.
- Learney, Lewis P.: *See*—
Rogers, Ernest W.; and Learney, Lewis P., 3,683,289.
- Learning Appliances Limited: *See*—
Rubenstein, Leonard, 3,703,608.
- Learning Systems Corporation: *See*—
Kranzyk, Robert Donald; Vegliante, Donald E.; and Balmer, Donald F., 3,696,524.
- Leary, Arvid K.: *See*—
Arabian, Karekin G.; and Leary, Arvid K., 3,654,207.
- Leas Brothers Development Corporation: *See*—
Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., 3,677,204.
Leas, Lawrence E., 3,682,143.
Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., 3,682,591.
Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., to Leas Brothers Development Corporation. High temperature heat generator. 3,677,204, 7-18-72, Cl. 110-1.000.

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- Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., 3,677,204.
- Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., 3,682,591.
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- Page, Howard M., 3,639,987.
- Leatherman, Alfred F.: *See—*
- Heller, William C., Jr.; Leatherman, Alfred F.; and Christian, Robert L., 3,705,819.
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- Caiola, Robert J.; and Leatherman, Cleown A., 3,681,166.
- Leatherman, Eugene A.: *See—*
- McVickers, Jack C.; and Leatherman, Eugene A., 3,686,757.
- Leatherman, Hugh: *See—*
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- Coty, Vernon F.; Heilweil, Israel J.; and Leavitt, Richard I., 3,672,953.
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- Vogeli, Rudolf, 3,674,116.
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- Lebduska, Robert L.: *See—*
- Meckel, Benjamin B.; and Lebduska, Robert L., 3,676,672.
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- Lebedev, Vyacheslav Ivanovich: *See—*
- Zhukov, Gennady Konstantinovich; Krylov, Nikolai Ivanovich; Lebedev, Vyacheslav Ivanovich; Popov, Boris Vasilievich; Slonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Vasilenko, Sergei Iosifovich; Kondratiev, Valentin Vasilievich; and Krokhin, Nests Ivanovich, 3,633,397.
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- Suvorov, Boris V.; Kagarlitsky, Alfred Davydovich; Kan, Iskra Ivanovna; and Lebedeva, Olga Borisovna, 3,689,491.
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- Schinz, Erich; Pintschovius, Ulrich; and Lebkucher, Karl Heinz, 3,674,781.
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- LeBlanc, Leo J., Sr. Windshield wiper assembly. 3,648,323, 3-14-72, Cl. 15-250.22.
- LeBlanc, Placide N. Device for everting a sleeve of flexible material. 3,643,840, 2-22-72, Cl. 223-42.
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- Leblond, Jean, to Uniroyal Englebert France S.A. Expandable and contractible transfer ring. 3,674,603, 7-4-72, Cl. 156-394.000.
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- Lebre, Charles Jean Pierre. Power or manual drive cable traction apparatus. 3,673,877, 7-4-72, Cl. 74-37.000.
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- Lecce, James G. Apparatus for feeding and maintaining neonatal piglets. 3,698,361, 10-17-72, Cl. 119-51.110.

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- Johnson, Martin L.; and Leclercq, Richard L., 3,699,440.
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- Ledbetter, Harvey D.: *See—*
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- Walton, Carey E., 3,659,759.
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- Leduc, Robert D., to Polaroid Corporation. Exposure counter for single-lens reflex camera. 3,653,313, 4-4-72, Cl. 95-42.
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- Murphy, James A.; Lee, Charles A.; and Spravniks, Eduards, 3,707,281.
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- Lee, Charles A., to International Paper Company, mesne. Reinforced nonwoven fabric. 3,682,755, 8-8-72, Cl. 161-57.000.
- Lee, Charles A., to Southeastern Products, Inc., mesne. Backing material for laminated products. 3,686,021, 8-22-72, Cl. 117-76.00r.
- Lee, Charles Allen; Furbeck, Warren R.; Bartley, Thomas S.; and Beaty, Jeremy, to International Paper Company, mesne. Forming apparatus. 3,641,627, 2-15-72, Cl. 19-156.3.
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- Lee, Charles Allen; and Wagner, Joseph Robert, to Huyck Corporation. Press fabric for papermaking machine press section having selected large incompressible yarns. 3,705,079, 12-5-72, Cl. 162-358.000.
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- Lee, Dennis D., to G & L Industries, Inc. Retractable tool holder. 3,657,812, 4-25-72, Cl. 30-162.
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- Lee, Frank M. Archery bow tuning and stabilizing attachment. 3,658,157, 4-25-72, Cl. 188-1.
- Lee, Fred S., to Honeywell Information Systems Inc. Magnetic bubble crossover circuit. 3,676,873, 7-11-72, Cl. 340-174.0tf.
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- Carmody, Dewey Blaine, 3,687,136.
- Collins, Catherine A., 3,704,776.
- Dudas, Attila, 3,673,304.
- Gow, Gordon James, 3,659,847.
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- Lane, L. B., 3,698,760.
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- Miller, Herbert Boyd, 3,690,334.
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- Olson, Elmer B., 3,636,963.
- Osborne, Robert D., 3,650,172.
- Parenteau, Leo R., 3,645,537.
- Parlagreco, Thomas J., 3,672,376.
- Romero, Addie B., 3,668,719.
- Ruggiero, John J., 3,693,975.
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Brastow, Edgar R.; and Lee, Tai Y., 3,689,854.
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Fitzmaurice, Colin; and Lee, Thomas Brian, 3,686,320.
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Tesoro, Giuliana; and Lee, Wing Kai, 3,684,429.
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Tesoro, Giuliana C.; Lee, Wing-Kai; and Domovs, Kelvin B., 3,658,791.
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McMahon, Richard A.; Lee, Winston F. Z.; and Painley, Elmer F., 3,701,277.
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Amoroso, Michael J., 3,680,920.
Amoroso, Michael J., 3,698,769.
Moodey, Roderick K., 3,667,276.
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Krcnavi, John; and Leech, William D., 3,687,680.
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Matthaei, George L.; and Leedom, David A., 3,649,934.
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Blum, Bernard; and Schwartzberg, John W., 3,640,119.
Cohn, Nathan, 3,701,891.
Cohn, Nathan, 3,704,380.
Eckfeldt, Edgar L., 3,662,256.
Elias, Laurence F.; and Magee, James H., 3,686,665.
Green, Thomas A.; and Ross, Charles W., 3,633,009.
Green, Thomas A.; and Ross, Charles W., 3,691,354.
Hance, Richard J.; Wiese, John R.; and Clauss, Harry G., Jr., 3,646,816.
Hance, Richard James, 3,664,882.
Jones, Louis R., Jr., 3,698,954.
MacMullan, Samuel J., 3,639,825.
MacMullan, Samuel J., 3,697,871.
McMullan, Samuel J.; and Williams, Albert J., Jr., 3,686,568.
Proctor, William Earl, Jr., 3,657,096.
Ross, Charles W., 3,632,018.
Ross, Charles W., 3,681,780.
Stadlin, Walter O.; and Wollenberg, Bruce F., 3,683,161.
Staley, Walton F., Jr., 3,656,176.
Underkoffler, Victor S.; and White, Richard B., 3,699,318.
Walsh, Thomas J., 3,693,067.
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Micallef, Lewis A., 3,675,804.
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Lepak, Carley J., 3,644,068.
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Wakley, Wilbur T.; and Leeds, Michael T., 3,697,666.
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Stanway, Edward, 3,686,905.
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Gadsby, Brian; and Leeming, Michael R. G., 3,646,012.
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Canas-Rodriguez, Antonio; and Leeming, Peter R., 3,644,403.
Canas-Rodriguez, Antonio; and Leeming, Peter R., 3,686,182.
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Gadsby, Brian; Leeming, Peter Rodway; and Thomas, Michael Barrie, 3,686,291.
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Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leeniex, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreievich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.
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Aprill, Theophil, Jr.; and Leerkamp, John R., 3,666,104.
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Allam, James N.; and Morrocco, Joseph J., III, 3,672,582.
Allam, James N., 3,700,249.
Andrews, Bernard, 3,638,415.
Bell, Charles C.; and Niederer, Kurt W., 3,688,486.
Bense, William M., 3,672,588.
Brouwer, Charles W.; Bucheister, Henry C.; and Tata, Raymond V., 3,700,051.
Cruckshank, David G.; and Guerin, David T., 3,672,542.
Di Mauro, Frank C., 3,652,025.
Ditzler, John W., 3,694,871.
Fishman, Jerry Haskel; Henry, Jean Francois; and Tessore, Susanne, 3,645,860.
Grant, Donald W., 3,643,882.
Harrison, Robert E., 3,672,583.
Katsoulis, Emanuel G.; and Pryor, William S., 3,668,014.
Keith, John V.; and Richter, Hans H., 3,641,756.
Kerrigan, James A., 3,672,585.
Lee, Donald S.; and Settanni, Richard, 3,692,250.
Leeson, Richmond T.; and Richter, Hans H., 3,668,855.
Macedo, Frank A.; and Perrino, Thomas W., 3,672,584.
Morton, Robert E., 3,645,461.
Morton, Robert E., 3,656,698.
Morton, Robert E., 3,672,586.
Nelson, John; and Stoppard, William E., 3,640,160.
Palmer, Nigel I., 3,650,837.
Palmer, Nigel I., 3,660,165.
Rebsamen, Arthur, 3,638,412.
Richter, Hans H., 3,668,856.
Richter, Hans H., 3,670,488.
Richter, Hans H., 3,695,020.
Richter, Hans H., 3,701,245.
Stoppard, William E., 3,699,833.
Whitney, William R., 3,672,143.
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McKenzie, John, 3,677,482.
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Cutter, Larry I., 3,707,261.
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Chauvin, Yves; Lefebvre, Gilles; and Uchino, Masahiro, 3,655,810.
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Chatourel, Pierre; and Lefebvre, Jean, 3,698,471.
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Weppner, Benjamin H.; Lefebvre, Leo P.; and Miller, Victor R., 3,690,313.
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Cabestany, Jean-Antoine; and Lefebvre, Yves, 3,645,841.
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Edmonston, Robert P.; Lefforge, John W.; and Keller, George C., 3,695,477.
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Granieri, George John; and Lefkowitz, Edward Herbert, 3,700,914.
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Bazouin, Andre; and Lefort, Marcel, 3,637,780.
Bazouin, Andre; and Lefort, Marcel, 3,637,781.
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Blum, Paul; Lefrancois, Jacques; and Vinarnick, Louis, 3,705,101.
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Kolbe, John L.; and Legal, Casimer C., Jr., 3,650,727.
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Kraus, John W.; and Legal, Casimer Claudius, Jr., 3,637,348.
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Peronneau, Pierre; and Leger, Fernand, 3,661,146.
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Plumat, Emile; and Leger, Lucien F., 3,645,710.
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De Jean, Jacques Henri; Leger, Marc Jean Pierre; and Lerouge, Claude Paul Henri, 3,651,467.
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Clayton, Dennis Albert, 3,660,748.
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Kelly, Robert G.; Legg, Louis L.; and Ruf, Walter, 3,691,715.
- Legg, Morris James: *See—*
McKay, Peter Henry; and Legg, Morris James, 3,643,626.
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Dull, Thomas J., 3,648,737.
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Mahr, Rene N.; and Legille, Edouard, 3,693,812.
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Kotov, Evgeny Pavlovich; Legostov, Viktor Vladimirovich; Stepanov, Evgeny Alexeevich; Chuchalov, Alexandr Mikhailovich; Maiorov, Nikolai Kuzmich; Merezhko, Gennady Pavlovich; Komarov, Anatoly Semenovich; and Sosnitsky, Nikolai Georgievich, 3,694,570.
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Sapy, Jacques; and Legris, Andre, 3,653,689.
- Legris, Ste.: *See—*
Sapy, Jacques; and Legris, Andre, 3,653,689.
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Girard, Rene Fernand Victor; and LeGuillerm, Jacques, 3,644,857.
- Leguyt, Jacob: *See—*
Frohlich, Josef; and Leguyt, Jacob, 3,649,056.
- Frohlich, Josef; and Leguyt, Jacob, 3,675,680.
- Lehamann, Walter G.: *See—*
Dietz, Milton S.; and Lehamann, Walter G., 3,659,512.
- Lehara, Werner, Inc.: *See—*
Verhoeven, Albert F., 3,648,624.
- Verhoeven, Albert F., 3,683,985.
- Lehde, Henry C.: *See—*
Burrows, Alan A.; and Lehde, Henry C., 3,648,229.
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Illig, Howard Clayton; Lehder, Wilfred Emile, Jr.; Parker, James Daniel, III; Santacroce, Alfred Michael; and Sheridan, James Arthur, 3,698,533.
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Caiati, Michael I.; and Lehle, William L., 3,643,972.
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Daws, Thomas W.; and Lehman, Albert L., 3,688,831.
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Babayan, Vigen K.; and Lehman, Henry, 3,637,774.
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Barson, Fred; and Lehman, Herbert S., 3,667,115.
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Cochran, David L.; Deleray, Arthur L.; and Lehman, John P., 3,698,320.
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Moorman, Charles J.; and Lehman, Richard H., 3,668,384.
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Echeandia, James F.; and Lehman, Robert M., 3,632,358.
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Wehner, Albert, 3,684,091.
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Burg, Karlheinz; Cherdron, Harald; Lehmann, Heinz; and Lutz, Eleonore, 3,639,192.
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Schruoff, Horst; Lehmann, Helmut; Siefen, Jakob; Mathner, Hermann; Adams, Willi; and Weiss, Gunter, 3,700,531.
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- Lehmann, Leonard T., to Hercules Incorporated. Process of preparing air-pervious spot bonded nonwoven fabrics. 3,697,347, 10-10-72, Cl. 156-81.000.
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Aebersold, Rene; and Lehmann, Werner, 3,685,441.
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Ziemann, Heinz; Lehmann, Wolfgang; and Troemel, Gerhard, 3,640,840.
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Litman, Charles; and Lehna, Earl N., 3,653,021.
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Menges, Hans G. L.; Lehnen, Josef P.; and Harms, Englebert G., 3,680,844.
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Hegenberger, John N., 3,673,730.
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Overdyck, Dieter; and Lehner, Fritz, 3,643,476.
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Hirt, Wilhelm; Lehnerdt, Hagen; Weckesser, Ernst; Weinhold, Gottfried; and Wrigge, Friedrich Wilhelm, 3,673,074.
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Frana, Josef; and Lehnert, Erhard, 3,690,421.
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Friedrich Schatz; Stachewski, Harry; and Lehnert, Gunther, 3,700,158.
- Lehnert, Gunter: *See—*
Bungardt, Karl; Becker, Gottfried; Lehnert, Gunter; and Lenartz, Gustav, 3,632,407.
- Bungardt, Karl; Lehnert, Gunter; and Meinhardt, Helmut W., 3,677,789.
- Bungardt, Karl; Lehnert, Gunter; and Meinhardt, Helmut, 3,692,554.
- Lehnert, Gunther: *See—*
Friedrich Schatz; Stachewski, Harry; and Lehnert, Gunther, 3,700,158.
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Hughes, John M.; Lehnhardt, Stanley E.; and Lochridge, Byron C., 3,646,509.
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Carlson, Edgar; and Lehrian, William R., 3,666,659.
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- Lehureau, Jean: *See—*
Borrel, Philippe; and Lehureau, Jean, 3,655,483.
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Assouline, George; Leiba, Eugene; and Spitz, Erich, 3,663,086.
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Kreml, John F.; Leibel, John M.; and Pierpont, George C., 3,666,580.
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Merkel, Hans; and Leibenzeder, Siegfried, 3,657,004.
- Merkel, Hans; and Leibenzeder, Siegfried, 3,690,847.
- Leibenzon, Semen Abramovich: *See—*
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Podola, Nikolai Vasilievich; Bondarenko, Oleg Petrovich; Leibenzon, Semen Abramovich; Kaganovsky, Gary Petrovich; Smolyakov, Vadim Filimonovich; Eltsov, Konstantin Sergeevich; Gabuev, Georgy Kharitonovich; and Gladky, Dmitry Fedorovich, 3,693,700.
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- Leibfried, Wolfgang; Schmid, Guenther; Ortlieb, Alfred; Hartmann, Horst J.; and Tittes, Eberhard, to Bosch, Robert, G.m.b.H. Arrangement for soldering a terminal to a semiconductor. 3,648,915, 3-14-72, Cl. 228-37.
- Leibfritz, Kurt W.; and Malinowski, Lester W., to Parker-Hannifin Corporation. Solenoid operated valve assembly. 3,633,624, 1-11-72, Cl. 137-625.64.
- Leibhard, Erich: *See—*
Trattner, Herman; and Leibhard, Erich, 3,654,897.
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- Leibowitz, William, to Dollac Division, Jacoby-Bender, Inc. Rolling doll dye mounted on an askew axis. 3,664,059, 5-23-72, Cl. 46-167.
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- Leibson, Mark Lazarevich: *See—*
Bekhtle, Georgy Alexandrovich; Myasnikov, Nikolai Fedorovich; Mitrofanov, Jury Eremeevich; Berestov, Evgeny Stepanovich; Kauvasinsky, Albert Frantsevich; Leibson, Mark Lazarevich; and Derkach, Viktor Gershovich, 3,690,454.
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Protze, Josef; and Leidl, Max, 3,688,615.
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Van Zijl, Tonny, 3,683,598.
- Leidy, Lester R., Jr., to Honeywell Inc. Bearing. 3,666,336, 5-30-72, Cl. 308-238.
- Leier, Karl Otto; Spohr, Hans Werner; and von Riegen, Johannes, to Mannesmann Aktiengesellschaft. Apparatus for mandrel collapsing and reassembling in tube widening equipment. 3,704,978, 12-5-72, Cl. 425-393.000.
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Takriti, Nassir; Quoos, Kurt; Leifeld, Ferdinand; and Appenzeller, Valentin, 3,683,649.

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 Bosshard, Hans Heinrich; Leifels, Klaus-Dieter; and Seyberlich, Bernd, 3,682,682.
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 Liebscher, Johannes, 3,638,267.
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 Leifheit, Gunter; and Liebscher, Johannes, 3,631,557.
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- Leiga, Algird G., to Xerox Corporation. Uniform electrostatic charging of a photoconductive insulating surface. 3,648,133, 3-7-72, Cl. 317-262.
- Leigh, Bertram Jonathan, to General Cable Corporation. Aerial lift with workman's basket with protective covering. 3,695,390, 10-3-72, Cl. 182-12,900.
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 Steacie, John Richard B., 3,631,722.
- Leigh, John H.: *See—*
 Kemper, Clarence A.; Eastman, Richard H.; and Leigh, John H., 3,648,523.
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 Price, John R., 3,664,625.
 Vanderveer, Fredric B., 3,705,421.
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- Leighton, John S. Misplaced file indicating system. 3,701,987, 10-31-72, Cl. 340-280,000.
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 Zeitlin, Edward J.; and Leighton, Lee, 3,707,618.
- Leighton, Peter Watson, to Lucas, Joseph, (Industries) Limited. Electrical watches. 3,655,933, 4-11-72, Cl. 200-159.
- Leimgruber, Willy: *See—*
 Den Hollander, Charles William; Leimgruber, Willy; and Mohacs, Ernest, 3,682,925.
- Leimgruber, Willy; and Mohacs, Ernest, to Hoffmann-La Roche Inc. Morphine derivatives and preparation thereof. 3,634,429, 1-11-72, Cl. 260-285.
- Leimgruber, Willy; and Schenker, Fausto Eugenio, to Hoffmann-La Roche Inc. 8-Lower alkoxyisquinolinium halides. 3,661,913, 5-9-72, Cl. 260-286.
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 Schone, Helmut; Weisbach, Gunter; Johnne, Hans; Kuhn, Fritz; and Lein, Werner, 3,647,205.
- Leiner, Robert L.: *See—*
 Meyer, Marvin; Avena, Salvatore; and Leiner, Robert L., 3,659,682.
- Leiner, Robert L.; and Avena, Salvatore, to Curtiss-Wright Corporation. Power driven actuator of the compound planetary gear type. 3,640,150, 2-8-72, Cl. 74-674.
- Leininger, Dale E.: *See—*
 Whysong, Dale C.; Leininger, Dale E.; and Young, Herbert D., 3,674,559.
- Whysong, Dale C.; and Leininger, Dale E., 3,688,300.
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- Leipp, Emile A.; Castellengo, Michele M. T.; Lienard, Jean-Sylvain R.; Quinio, Jacques L.; Sapaly, Jean; and Teil, Daniel G., to Agence Nationale de Valorisation de la Recherche (ANVAR). Printed data to speech synthesizer using phoneme-pair comparison. 3,62,887, 1-4-72, Cl. 179-15.
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 Hough, William D., 3,641,594.
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- Leising, Maurice B.; and Benford, Howard L., to Chrysler Corporation. Hydrodynamic transmission. 3,650,162, 3-21-72, Cl. 74-867.
- Leisio, Reino: *See—*
 Johnson, Carl V.; and Leisio, Reino, 3,650,296.
- Leister, Gerhard, to ABG-WERKE G.m.b.H. Road surfacing machines. 3,699,855, 10-24-72, Cl. 94-46,000.
- Leister, Heinrich: *See—*
 Schmitz, Reinold; Leister, Heinrich; and Bien, Hans-Samuel, 3,632,610.
- Leister, Heinrich; and Vollmann, Heinrich, to Farbenfabriken Bayer Aktiengesellschaft. Derivatives of isoindoline. 3,646,033, 2-29-72, Cl. 260-250.
- Leister, Robert G.: *See—*
 Jablin, Richard; and Leister, Robert G., 3,672,595.
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- Leistikow, Gerard K.: *See—*
 Lemkin, Jack L.; Leistikow, Gerard K.; Edmisson, Russell C.; and Benson, John T., 3,670,449.
- Leitner, Karl. Test device for an image motion compensation aerial camera. 3,645,625, 2-29-72, Cl. 356-27.
- Leitner, William E.: *See—*
 Kauder, Otto S.; Leitner, William E.; and Hecker, Arthur C., 3,655,832.
- Kauder, Otto S.; and Leitner, William E., 3,662,032.
- Leisure Group, Inc., The: *See—*
 Hill, Charles P., 3,672,688.
- Rosic, Richard F., 3,655,132.
- Leisure Products Corporation: *See—*
 Nichols, Paul E., 3,659,475.
- Piazza, Joe E.; and Nichols, Paul E., 3,636,911.
- Leisure Products, Inc.: *See—*
 Sarno, Richard L., 3,697,048.
- Leitch, James F. Plant shower curtain assembly. 3,681,872, 8-8-72, Cl. 47-1,000.
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- Leitermann, Wulf; and Maurhoff, Gerhard, to Audi Nsu Auto Union Aktiengesellschaft. Proportioning feed pump. 3,653,784, 4-4-72, Cl. 417-317.
- Leitgeb, Rudolf J. Fastening interlock with hinge function. 3,633,647, 1-11-72, Cl. 160-220.
- Leitgeb, Wilhelm, to Siemens Aktiengesellschaft. Electrodynamical linear motor. 3,699,365, 10-17-72, Cl. 310-12,000.
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 Kozma, Adam; Leith, Emmett N.; and Massey, Norman G., 3,637,290.
- Leith, Frank A.; and Guild, Carl H., Jr., to KEV Electronics Corporation. Diode having a voltage variable capacitance characteristic and method of making same. 3,634,738, 1-11-72, Cl. 317-234.

- Leitich, Albert J.: *See—*
 Braun, William V.; and Leitich, Albert J., 3,639,690.
- Leitmeier, Franz X.; Saller, Franz; and John, Neusubing B. Two-partite optical components with air space. 3,689,134, 9-5-72, Cl. 350-252,000.
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- Leitner, Hans: *See—*
 Beck, Fritz; Guthke, Harald; and Leitner, Hans, 3,642,592.
- Leitner, Karl: *See—*
 Remmers, Karl; Bertoldi, Gerhard; Leitner, Karl; and Eigner, Erich, 3,648,994.
- Leitner, Richard E. Tone burst generator. 3,694,773, 9-26-72, Cl. 331-112,000.
- Leitner, Robert T.; and Drake, John E., to Jerrold Electronics Corporation. Antenna system with ferrite radiation suppressors mounted on feed line. 3,680,146, 7-25-72, Cl. 343-792,000.
- Leitold, Matyas: *See—*
 Schmidt, Gunther; Engelhorn, Robert; Leitold, Matyas; and Machleidt, Hans, 3,634,408.
- Schmidt, Gunther; Engelhorn, Robert; and Leitold, Matyas, 3,660,380.
- Schmidt, Gunther; Engelhorn, Robert; and Leitold, Matyas, 3,691,159.
- Leitz, Ernst, G.m.b.H.: *See—*
 Bechmann, Gerhart, 3,677,155.
- Bromer, Heinz; and Meinert, Norbert, 3,671,276.
- Bromer, Heinz; Meinert, Norbert; Wetzlar, Johann Spincic; and Staaden, Hans, 3,690,905.
- Bromer, Heinz; and Meinert, Norbert, 3,703,389.
- Edwards, Garry; Mandler, Walter; and Wagner, Erich, 3,649,104.
- Haas, Karl Heinz, 3,664,751.
- Heitmann, Knut; and Schneider, Eckart, 3,671,750.
- Hock, Fromund, 3,664,750.
- Hock, Fromund, 3,672,779.
- Holle, Werner, 3,639,047.
- Holle, Werner; and Kessler, Arthur, 3,670,636.
- Katzenfurt, Karl Clos; and Keiner, Fritz, 3,701,307.
- Keiner, Heinz, 3,701,594.
- Keiner, Heinz; and Schafer, Wilhelm, 3,701,597.
- Kessler, Arthur; and Loseries, Peter, 3,670,634.
- Klein, Walter, 3,664,724.
- Marx, Helmut; and Desch, Hermann, 3,653,750.
- Nickel, Werner; and Christopoulos, Nikolaos, 3,677,151.
- Schick, Dieter, 3,704,932.
- Leitz, Ernst, G.m.b.H., Firma: *See—*
 Klein, Walter, 3,638,996.
- Leitz, Frank B., to Ionics, Incorporated. Apparatus for electrodialysis of electrolytes employing bilaminar ion exchange membranes. 3,654,125, 4-4-72, Cl. 204-301.
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 Kundt, Edmund; Klaiber, Max; Leitz, Wilfried; and Vom Rath, Herbert, 3,696,955.
- Leitz, Wilfried, to Ciba-Geigy AG. Method of applying pilfer-proof closures. 3,673,761, 7-4-72, Cl. 53-42,000.
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 Remy, Claude; Lejannou, Claude; and Leclere, Jacques, 3,639,847.
- Lejdegard, Sixten H., to Bultfabriks Aktiebolaget. Self-tapping screw with drill means. 3,682,038, 8-8-72, Cl. 85-41,000.
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- Lejeune, Guy: *See—*
 Cahn, Jean; Canonne, Edmond Marie; Lejeune, Guy; Ligny, Gaston Arthur Francois; and Modigliani, Dario Claude Fulvio, 3,634,449.
- Lejeune, Lloyd M. Apparatus for preventing offshore oil well pollution. 3,674,150, 7-4-72, Cl. 210-245,000.
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 Mack, Richard C.; Lejnieks, George; and Morrison, Edward D., 3,647,619.
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- Lekane, Louis L., to Serasi S.P.R.L. Shipping unit for cloth lengths having a delicate surface particularly woven and knitted plushes, velvets and furnishing brocades. 3,645,383, 2-29-72, Cl. 206-51.
- Lekberg, Robert D. Shipboard recirculation sewage system. 3,633,218, 1-11-72, Cl. 4-10.
- Leland, James M., to United States of America, Navy. Apparatus for electroplating a curved surface. 3,706,651, 12-19-72, Cl. 204-218,000.
- Leland, Ragnvald G. Cleaning device with interchangeable head. 3,651,534, 3-28-72, Cl. 15-231.
- Leland, Robert D., to Holley, George M., Jr. Control system including common mode feedback. 3,652,913, 3-28-72, Cl. 318-678.
- Leland Stanford Junior University, The Board of Trustees of the: *See—*
 Auld, Bertram A., 3,649,855.
- Leland Stanford Junior University, The board of trustees of the: *See—*
 Chowning, John M., 3,665,105.
- Merigan, Thomas C., Jr.; Eckstein, Fritz; and De Clercq, Eric Desire Alice, 3,687,808.
- Lelano, Don H.; and Harris, Billy G., to Overhead Door Corporation. Hinge structure for a closure member. 3,683,453, 8-15-72, Cl. 16-129,000.
- Lelay, Roland: *See—*
 Bidault, Michel; Dosdat, Jean; Lelay, Roland; and Parouty, Jean Claude, 3,699,647.
- L'Electro-Refractaire: *See—*
 Esnault, Marc Roland Gilbert; and Ayme-Jouve, Michel Louis, 3,667,981.
- Recasens, Joseph, 3,697,037.
- L'Electronique Appliquee: *See—*
 Tetar, Claude R., 3,688,085.
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- Lelong, Jose: *See—*
 Plumat, Emile; and Lelong, Jose, 3,673,006.
- Lelugas, Joseph J.; and Likken, Gene B., to American Hospital Supply Corporation. Physician's examining table construction. 3,638,935, 2-1-72, Cl. 269-324.
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- Lely, C. van der, N.V.: *See—*
 Barbot, Claude, 3,706,191.
- Lely Corporation, The: *See—*
 Smith, Elwood Lee, 3,643,872.
- Smith, Elwood Lee, 3,662,526.
- Smith, Elwood Lee, 3,683,603.
- Lely Ltd.: *See—*
 Mackinnon, Ian Archie, 3,682,393.
- Lelyk, William; and Stepanek, Frank E., to American Home Products Corporation. Container closure. 3,680,731, 8-1-72, Cl. 220-55,00a.
- Lemahieu, Gerard: *See—*
 Depoorter, Henri; Rillaers, Alfred; Lemahieu, Gerard; and Moe-lants, Felix Jan, 3,653,905.
- Lemahieu, Ronald Andrew: *See—*
 Kierstead, Richard Wightman; and Lemahieu, Ronald Andrew, 3,635,954.
- Lemaire, Henry: *See—*
 Lamberti, Vincent; and Lemaire, Henry, 3,652,764.
- Lamberti, Vincent; Lemaire, Henry; and Cahn, Arno, 3,707,511.
- Lemaire, Irov P., to United States of America, Navy. Underwater imaging system for deep submergence vehicles. 3,668,986, 6-13-72, Cl. 95-11,000.
- Lemaitre, Andre Jules Emile: *See—*
 Magnard, Pierre Lucien Antoine; and Lemaitre, Andre Jules Emile, 3,706,178.
- Lemaitre, Gerard, to Etablissement Public: Agence Nationale de Valorisation de la Recherche (ANVAR). Method for producing optical elements with aspherical surfaces. 3,693,301, 9-26-72, Cl. 51-235,000.

- Leman, Marvin J., to Simpson Timber Company. Refuse burner for wood waste, bark residues, and other combustible solids. 3,669,039, 6-13-72, Cl. 110-7.00a.
- Leman, Marvin J., to Simpson Timber Company. Pneumatic spreader stoker. 3,669,502, 6-13-72, Cl. 302-19.000.
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Adler, Karl-Heinz; Locher, Johannes; Lemanczyk, Rudolf; and Schonart, Edgar, 3,699,935.
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- Lemanski, Savarian F. Tool holder and attachments for a lathe. 3,654,827, 4-11-72, Cl. 82-25.
- Lemarinel, Robert: *See—*
Gandon, Louis; Bozec, Christian; Lenoble, Philippe; Lemarinel, Robert; and Fer, Pierre, 3,661,564.
- Lemaster, Howard V.: *See—*
Gregg, Harry D., Jr.; and Lemaster, Howard V., 3,644,410.
- Lemaster, Howard V., to Geigy Chemical Corporation. Process for the preparation of alkoxy-bis (alkylamino)-s-triazines. 3,663,542, 5-16-72, Cl. 260-249.8.
- Lemay Machine Company: *See—*
Suellentrop, Fred F., Jr.; and Suellentrop, Allan A., 3,651,938.
- Lemay, Richard Ronald: *See—*
Deichert, William George; and Lemay, Richard Ronald, 3,646,164.
- LeMay, William E.; and Glennon, Richard F., to Baxter Laboratories, Inc. Dusting method and apparatus. 3,687,702, 8-29-72, Cl. 117-61.000.
- Lemberg, Alfred A. Expandable hair curler. 3,707,155, 12-26-72, Cl. 132-40.000.
- Lemberg, Mark Eleazarovich: *See—*
Basin, Genrikh Maxovich; Gorenstein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Yakov Benediktovich, 3,648,471.
- Lemberger, Adolph W.: *See—*
Gilmour, Richard C.; Kaitz, Vincent A.; and Lemberger, Adolph W., 3,705,525.
- Lembo, Sabino: *See—*
Mastursi, Michele; Lembo, Sabino; and Viterbo, Rene, 3,661,909.
- Mastursi, Michele; Lembo, Sabino; and Viterbo, Rene, 3,681,354.
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- Lemelson, Jerome H. Building maintenance apparatus. 3,641,607, 2-15-72, Cl. 15-50.
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- Lemelson, Jerome H. Toy vehicle and track. 3,691,670, 9-19-72, Cl. 46-1.00j.
- Lemelson, Jerome H. Casting and molding method. 3,692,892, 9-19-72, Cl. 264-317.000.
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Lange, Gunter; and Ulderup, Jurgen, 3,651,663.
- Lemgo-Lippe, Kurt Hesse, to Staff & Schwarz G.m.b.H. Current distributor rail. 3,704,437, 11-28-72, Cl. 339-21.00r.
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- Lemieux, George E., to Ford Motor Company. Automotive transmission mechanism having four forward driving speed ratios. 3,678,784, 7-25-72, Cl. 74-759.000.
- Lemieux, George E.; and Smalinskas, Steps, to Ford Motor Company. Throttle valve actuator for an automatic vehicle transmission having engine back pressure compensation. 3,688,606, 9-5-72, Cl. 74-863.000.
- Lemieux, George E., to Ford Motor Company. Compound fluid pressure actuator for friction torque coupling. 3,693,480, 9-26-72, Cl. 74-789.000.
- Lemieux, Raymond Urgel; and Raap, Rintje, to R & L Molecular Research Ltd. Certain isothiazolylacetylenemercaptides. 3,654,294, 4-4-72, Cl. 260-302.
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- Lemieux, Roger Joseph, to Northern Electric Company Limited. Filled cable core with foraminous core wrap. 3,681,510, 8-1-72, Cl. 174-23.00r.
- Lemieux, Thomas H., to United States of America, Navy. Flexible hose wire payout system. 3,703,874, 11-28-72, Cl. 114-21.00r.
- Leming, John C., to Averton Gear and Tool Corporation. Long span screw and nut drives. 3,670,583, 6-20-72, Cl. 74-89.15.
- Lemke, Arthur A., to FMC Corporation. Method and apparatus for flushing sewers. 3,661,261, 5-9-72, Cl. 210-83.000.
- Lemke, Donald L.; and Ostrander, Ronald D., to Murray Machinery, Inc. Apparatus for handling pneumatic web roll winding shafts. 3,675,866, 7-11-72, Cl. 242-55.000.
- Lemke, James U., to Bell & Howell Company. Magnetic printing utilizing thermal gradients. 3,693,183, 9-19-72, Cl. 346-74.0mt.
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Swengel, Robert Charles, Sr.; and Lemke, Timothy Allen, 3,656,092.
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Thompson, Earl R.; and Lemkey, Franklin D., 3,671,223.
- Lemkin, Jack L.: *See—*
Handler, Elliot; Ryan, John W.; Lemkin, Jack L.; and Dunn, Ralph, 3,686,894.
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- Lemler, Seymour A. Scoop for animal waste. 3,703,158, 11-21-72, Cl. 119-1.000.
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Brown, Thomas W.; and Lemlin, John S., 3,656,330.
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Koch, Walter; Lemm, Helmut; Voss, Eitel; and Hospital, Peter, 3,694,157.
- Lemmen, Hendrikus Johannes: *See—*
Van Oosterhout, Gerard Willem; Lemmen, Hendrikus Johannes; and Klomp, Cornelis Johannes, 3,679,476.
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Geus, John W.; and Lemmens, Jan C., 3,668,149.
- Lemmens, Joseph. Variable speed transmission. 3,641,843, 2-15-72, Cl. 74-751.
- Lemmerman, Richard D. Jet engine exhaust augmentation unit. 3,684,054, 8-15-72, Cl. 181-33.0hc.
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Dine, Lester A.; and Lemmey, Edgar S., 3,687,030.
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Brown, Clarence Edward; and Lemmon, Norman Frederick, 3,656,803.
- Lemmons, Willie Paul. Scholastic averaging devices. 3,691,651, 9-19-72, Cl. 35-48.00r.
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Soussa, Elie Michel; and Habayeb, Jabbour, 3,669,126.
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Gorike, Rudolf; and Lemoch, Karl, 3,651,286.
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- Lemoine, Industries: *See—*
Vidal, Jean; and Lemoine, Industries, 3,675,423.
- Lemoine, Jacques: *See—*
Vidal, Jean; Parisot, Jean; and Lemoine, Jacques, 3,667,217.
- Vidal, Jean; Parisot, Jean; and Lemoine, Jacques, 3,675,426.
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- Lemoine, Maurice G., to Ampex Corporation. Dual loop equalization for a frequency modulated signal system. 3,643,013, 2-15-72, Cl. 178-6.6.
- Lemon, George E. Quick release arm straightener device. 3,637,219, 1-25-72, Cl. 273-189.
- Lemon, George E. Tethered ball with cord lengthening means. 3,655,190, 4-11-72, Cl. 273-95.
- Lemon, George F., Jr.: *See—*
Moskowitz, Isadore; and Lemon, George F., Jr., 3,661,116.
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Martin, John P.; Beninger, Darrell J.; and Lemon, John R., 3,675,317.
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Capper, Harry Milton; Woolley, Harold Oakley, Jr.; Lemons, Clifton Eugene; and Wagner, Richard Maxwell, 3,661,752.
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- Lemouzy, Joseph Antoine. Electronic apparatus for converting impedances and electrical measurements. 3,657,662, 4-18-72, Cl. 330-17.
- Lemp, John, Jr.; and Meadors, Howard Clarence, Jr., to Bell Telephone Laboratories, Incorporated. Digital equalizer in which tap adjusting signals are derived by modifying the signal code format. 3,633,014, 1-4-72, Cl. 235-152.
- Lemper, Anthony L.; and Okuzumi, Yuzi, to Goodyear Tire & Rubber Company, The. Dyeable polyester. 3,661,856, 5-9-72, Cl. 260-75.00s.
- Lemper, Herbert, to Mesta Machine Company. Vertical mill. 3,670,587, 6-20-72, Cl. 72-239.000.
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- Lempert, Joseph; Lowry, Jerald; and Bonner, Frederick M., to Westinghouse Electric Corporation. Work treating with electron beam. 3,634,645, 1-11-72, Cl. 219-121.
- Lems, Peter, to Signode Corporation. Load bagging apparatus. 3,675,388, 7-11-72, Cl. 53-187.000.
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Kjellberg, Finn Andre; Lemvig, Svend E. N.; and Kjellberg, Bent I., 3,656,191.
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Aubry, Jean; and Lenclud, Francois, 3,634,326.
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- Lender, Chester A., to Slick Electro Inc. Centering mechanism for machine tools. 3,661,042, 5-9-72, Cl. 82-3.000.
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Van Den Hoven, Wilhelm Elbertus, 3,701,669.
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Van Hirtum, Martinus Johannes; and Lenders, Wilhelmus Leonard Louis, 3,634,164.
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Paolini, John P.; and Lendvay, Louis J., 3,632,816.
- Lenahan, Bernard E., to Westinghouse Electric Corporation. Apparatus for transferring intelligence between two voltage levels. 3,654,483, 4-4-72, Cl. 307-109.
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Labarte, Maurice; and Lenfant, Jacques, 3,686,734.
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Harmer, David E.; Jarema, John R.; and Leng, Douglas E., 3,697,351.
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Klundt, Irwin L.; Lenga, Robert; and Warawa, Edward J., 3,657,452.
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Fradin, Jean; and Lengagne, Paul, 3,664,083.
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Pepe, Anthony Enrico; Lengnick, Guenther Fritz; and Neuroth, Charles George, 3,661,816.
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Hollo, Imre; Lengyel, Sandor; Hannauer, Milos; and Eross, Bela, 3,695,412.
- Lenhardt, Roger D.: *See—*
Bowser, Gary L.; and Lenhardt, Roger D., 3,661,189.
- Lenhart, Helga: *See—*
Stegmeier, Gerhard; Lenhart, Helga; Gebler, Horst; and Diener, Horst, 3,639,134.
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Kulbakh, Valtor Osvaldovich; Kholodova, Galina Vasilievna; and Sveshnikov, Jury Fedorovich, 3,683,071.
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Povolotsky, Aron Markovich; Sushkin, Vyacheslav Petrovich; Fateichev, Anatoly Semenovich; and Gavrilov, Nikolai Vasilievich, 3,703,025.
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Odnolko, Valentin Vladimirovich; and Uzilevsky, Vladimir Aronovich, 3,688,026.
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Chelnokov, Ivan Ivanovich; Garbuzov, Vladimir Mikhailovich; Koshelev, A. Vladimir; Levit, Georgy Mikhailovich; Maltsev, Albert Alexandrovich; and Myachev, Vladimir Fedorovich, 3,701,402.
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Ezhov, Leonid Antipovich; Kudevitsky, Yankel Veniaminovich; and Belyaeva, Ljudmila Pavlovna, 3,678,554.
- Leningradsky Tekhnologicheskyy Imeni Lenoventa: *See—*
Plachenov, Tikhon Grigorievich; Belotserkovsky, Grigory Markovich; Dolgova, Ekaterina Nikolaevna; Ezhov, Jury Valentinovich; Fogel, Vladimir Alexandrovich; Benediktov, Andrei Pavlovich; and Avilov, Ilya Yakovlevich, 3,704,806.
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Schippers, Heinz; Hensen, Friedhelm; and Lenk, Erich, 3,701,512.
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Bartlett, William F.; Gifford, John C.; Lenk, Pedro A.; Oswald, William A.; Shaw, Frank Y.; Stuebe, Thomas D.; and Yost, Lloyd H., 3,662,349.
- Stuebe, Thomas D.; Lenk, Pedro A.; and Gifford, John C., 3,643,229.
- Lenke, Dieter: *See—*
Arnold, Herbert; Brock, Norbert; Kuhas, Engelbert; Lenke, Dieter; and Pohle, Hans, 3,686,311.
- Lenkeit, Carl Heinz; and Conklin, Cornelius Stephen, Jr., to United Aircraft Corporation. Jet engine force frame. 3,675,418, 7-11-72, Cl. 60-39.310.
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Jung, Richard; and Lenkewitz, Horst, 3,640,475.
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Bungardt, Karl; Becker, Gottfried; Lehnert, Gunter; and Lennartz, Gustav, 3,632,407.
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Theile, Kenneth W.; Lennert, David A.; and Rose, Frederick G., 3,634,266.

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- Lenning, Ronald L., to Cincinnati Milacron Inc. Adaptive control for a grinding machine. 3,699,720, 10-24-72, Cl. 51-59.05.
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Hemdal, Goran Anders Henrik; and Lennmarker, Nils Bertil, 3,644,895.
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- Lennon, John: See—
Schneider, John M.; and Lennon, John, 3,688,107.
- Lennon, John H.: See—
Little, William S., Jr.; Lennon, John H.; and Urbach, John C., 3,689,267.
- Lennon, John J., to Nettco Corporation. Shaft support and seal. 3,700,294, 10-24-72, Cl. 308-36.100.
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Ellis, Charles B., 3,666,380.
- Lennox, Thomas H., to Arc-O-Vec, Inc. Heater element. 3,678,249, 7-18-72, Cl. 219-544.000.
- Lennox, Thomas M., to Scanfax Systems Corporation. Tape drive shut-off. 3,695,550, 10-3-72, Cl. 242-191.000.
- Leno, Theodore, to Teletype Corporation. Variable capacitive apparatus. 3,671,822, 6-20-72, Cl. 317-249.00r.
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Gandon, Louis; Jean, Roger; and Lenoble, Philippe, 3,656,937.
Gandon, Louis; Jean, Roger; and Lenoble, Philippe, 3,656,940.
Gandon, Louis; Bozec, Christian; and Lenoble, Philippe, 3,660,020.
Gandon, Louis; Bozec, Christian; Lenoble, Philippe; Lemarinel, Robert; and Fer, Pierre, 3,661,564.
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- Lenoir, Fred W.: See—
Carr, Robert D.; Lenoir, Fred W.; and Reedy, Ora Lee, 3,688,998.
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Loeffel, Hansroff; Lenoir, John; and Piller, Bernhard, 3,634,091.
- Lenox, Timothy L.: See—
Hublou, Frank E.; and Lenox, Timothy L., 3,633,213.
Lahrson, Allan E.; Hublou, Frank E.; Zuchowski, Richard C.; Vannucci, Robert J.; Lenox, Timothy L.; and Geary, David S., 3,633,176.
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Du Ross, James W.; and Lensack, Gabriel P., 3,647,477.
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Johnson, Kenneth; and Lense, Robert F., 3,700,388.
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- Lensner, Herbert W.; and Ray, Roger E., to Westinghouse Electric Corporation. Frequency shifted modulated carrier protective relaying system with amplitude modulated voice communication. 3,707,651, 12-26-72, Cl. 317-28.000.
- Lenss, Andris; and Kirton, Lionel A., to Signetics Corporation. Boat pulling apparatus and diffusion furnace and method. 3,669,431, 6-13-72, Cl. 263-28.000.
- Lent, Charles V.: See—
Cochran, Thomas J.; Coughlin, Charles P.; Ficker, Walter W.; Lent, Charles V.; and Sullivan, Joseph M., 3,702,042.
- Lent, Ralph C., to Del Monte Corporation. Method and apparatus for handling articles. 3,682,291, 8-8-72, Cl. 198-30.000.
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Gates, Louis E., Jr.; and Lent, William E., 3,634,566.
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- Lent, Worthington C., to Lear Siegler, Inc. Subscriber loop extension unit. 3,689,700, 9-5-72, Cl. 179-16.00f.
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- Lentz, Albert P.; and Pool, Danny J. Fluid deflecting cap remover. 3,638,515, 2-1-72, Cl. 81-3.1.
- Lentz, Allen R., to Eastman Kodak Company. Film identification apparatus. 3,649,832, 3-14-72, Cl. 250-67.
- Lentz, Ben C., Jr., to Lentz, Maggie Birdell. Anti-intrusion door security device. 3,667,794, 6-6-72, Cl. 292-264.000.
- Lentz, John J. Firing circuit for gas discharge tubes. 3,699,386, 10-17-72, Cl. 315-356.000.
- Lentz, Maggie Birdell: See—
Lentz, Ben C., Jr., 3,667,794.
- Lentz, Tommy L.; and Terry, Alton L., to Decatur Iron and Steel Company. Apparatus for selecting and controlling the operation of cell doors. 3,675,369, 7-11-72, Cl. 49-20.000.
- Lenz, Arnold: See—
Keddeinis, Heinrich; Lenz, Arnold; Bleh, Otto; and Termin, Erich, 3,682,828.
Langenhoff, Ferdinand; Termin, Erich; Bleh, Otto; and Lenz, Arnold, 3,684,433.
Termin, Erich; Bleh, Otto; and Lenz, Arnold, 3,652,617.
Lenz, Arnold; Bleh, Otto; and Termin, Erich, to Dynamit Nobel Aktiengesellschaft. Preparation of magnesium alcoholates. 3,657,361, 4-18-72, Cl. 260-615.
Lenz, David E.: See—
Meier, Eugene P.; Lenz, David E.; and Sternberger, Ludwig A., 3,697,645.
Lenz, Gunther: See—
Krimm, Heinrich; Schnell, Hermann; and Lenz, Gunther, 3,639,341.
Krimm, Heinrich; Schnell, Hermann; and Lenz, Gunther, 3,640,955.
Weirauch, Kurt; Krimm, Heinrich; Lenz, Gunther; and Schnell, Hermann, 3,657,198.
Lenz, Hans-Joachim: See—
Ahlgrim, Michael; Kandler, Joachim; Lenz, Hans-Joachim; Mietens, Gerhard; and Ott, Willy, 3,647,514.
Lenz, Henry George, to General Electric Company. Hermetically sealed dynamoelectric machine. 3,675,056, 7-4-72, Cl. 310-54.000.
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Lenz, Johann: See—
Buchner, Anton; Lang, Hans; Lenz, Johann; Unterstenhoefer, Leo; and Krieger, Wilhelm, 3,661,812.
Lenz, John O. Parallel mechanism. 3,640,231, 2-8-72, Cl. 108-106.
Lenz, Robert E.; and Wargo, Stephen J., to Forsyth Industries, Inc. Lighting fixture. 3,638,012, 1-25-72, Cl. 240-25.
Lenz, Siegfried, to Daimler-Benz Aktiengesellschaft. Control installation for combustion engines. 3,687,120, 8-29-72, Cl. 123-117.00a.
Lenzen, Kenneth H.: See—
Bowling, George W.; Conlisk, Peter J.; and Lenzen, Kenneth H., 3,691,712.
Lenzinger, Martin, to Fairchild Camera and Instrument Corporation. Reachthrough or punchthrough breakdown for gate protection in MOS devices. 3,648,127, 3-7-72, Cl. 317-235.
Lenzner, James. Method of sealing and insulating a roof construction. 3,698,972, 10-17-72, Cl. 156-71.000.
Leon, Edward: See—
Gecring, Emil J.; Shatz, Malcolm H.; and Leon, Edward, 3,684,587.
Shatz, Malcolm H.; and Leon, Edward, 3,697,331.
Leon, Joseph Henri: See—
Labussiere, Andre Julien; and Leon, Joseph Henri, 3,692,141.
Leon, Luis P., to Technicon Instruments Corporation. Method and apparatus for fluid injection. 3,695,281, 10-3-72, Cl. 137-1.000.
Leonard, Allan S., to Ford Motor Company. Variable displacement hydraulic pump. 3,656,869, 4-18-72, Cl. 417-220.
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Leonard, Charles W.: See—
Kern, Thomas W.; Barringer, George L.; Wands, William Ross; Leonard, Charles W.; and Goodman, Gerald W., 3,666,049.
Leonard, Didier; and Pautrat, Rene, to Thomson-CSF. Automatic system for monitoring a physical quantity. 3,654,442, 4-4-72, Cl. 235-92.
Leonard, Didier, to C.I.T.-Compagnie Industrielle des Telecommunications. Apparatus for establishing a telephone to radio-telephone communication. 3,692,952, 9-19-72, Cl. 179-41.00a.
Leonard, Donald A.: See—
Caristi, Robert F.; and Leonard, Donald A., 3,633,127.
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Leonard, Donald E.: See—
Cheng, Chin Huan; and Leonard, Donald E., 3,648,018.
Leonard, Donald E., to Boeing Company. The. Winch apparatus for faired towing. 3,670,988, 6-20-72, Cl. 242-158.00r.
Leonard, Douglas Leslie: See—
Bain, Kenneth Lindsay; and Leonard, Douglas Leslie, 3,656,534.
Leonard, Edward H. Balance. 3,679,014, 7-25-72, Cl. 177-216.000.
Leonard, Edwin Clifton, to Eskimo Pie Corporation. Method for packing bags. 3,633,330, 1-11-72, Cl. 53-24.
Leonard, Ethel K.: See—
Chance, Leon H.; Leonard, Ethel K.; and Drake, George L., Jr., 3,636,088.
Leonard, George E., to Kartridg Pak Co., The. Aerosol valve assembly locating and setting apparatus. 3,696,493, 10-10-72, Cl. 29-208.00b.
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Leonard, George S.: See—
Chabot, Ronald W.; Leonard, George S.; and Sheena, David, 3,699,836.

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Gach, Peter P.; and Leonard, Henry K., 3,685,676.
- Leonard, James L. Cathode ray tube having standby cathode assembly on rotatable support. 3,678,324, 7-18-72, Cl. 313-236.000.
- Leonard, Jay F., to Philco-Ford Corporation. Adaptive modem receiver. 3,696,203, 10-3-72, Cl. 178-88.000.
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Hagen, Donald H.; and Leopold, Donald L., 3,643,769.
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Fontanella, Luigi; Testa, Emilio; and Maffii, Giulio, 3,637,808.
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Le Pier, Arvid H., 3,707,179.
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Levinstein, Stanley; and Lepow, Edward J., 3,635,178.
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Schutt, John B.; Colony, Joe A.; and Lepp, Donald R., 3,639,250.
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Byrnes, Peter A., Jr.; and Lepselter, Martin P., 3,661,747.
Fritzing, Larry B.; and Lepselter, Martin P., 3,647,585.
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Popelak, Alfred; Lerch, Ansgar; Stach, Kurt; Roesch, Egon; and Hardebeck, Klaus, 3,665,002.
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Hampel, Daniel; and Lerch, Joseph Bryan, 3,671,783.
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Tillmann, Hans Peter; and Lerchs, Erik, 3,648,221.
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Cizek, Albert W., Jr.; Lerner, Irving; and Simeon, Raymond, 3,652,485.
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De Barrau, Andre, 3,663,286.
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Chesnot, Bernard Francois Gustave, 3,638,077.
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Vezina, Jean A., 3,655,178.
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Simon-Vermot, Andre; and Grossenbacher, Charles-Andre, 3,676,998.
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Bodinaux, Gaston Jean Olivier, 3,662,684.
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Walon, Raoul Guillaume Philippe, 3,650,829.
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Chamecki, Samuel S., 3,680,228.
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Rolland, Michel, 3,636,013.
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Giudicelli, Don Pierre Rene Lucien; and Najer, Henry, 3,632,580.
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Gele, Pierre; and Laprade, Bernard (said Laprade, Bernard, as-sor. to), 3,677,241.
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Glass, Neel W., 3,703,209.
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Balassa, Leslie L., 3,632,754.
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Tiraspolyski, Vladimir; and Leschiutta, Pierre, 3,656,823.
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Tassell, Donald E.; and Middleton, Forest L., 3,702,718.
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Middleton, Forest L., 3,694,048.
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Bourgeois, Jacques, 3,662,633.
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Bourgeois, Jacques, 3,642,410.
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Kabay, Steve; and Lesko, Leslie J., 3,648,391.
Polzin, Dwaine N.; and Lesko, Leslie J., 3,662,838.
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Lutchenkov, Anatoly Matveevich; Shekhodanov, Mikhail Petrovich; Siyanov, Sergei Alexandrovich; Korovin, Ivan Stepanovich; Kholstova, Nonna Alexandrovna; Kreptseva, Valentina Nikolaevna; and Leskovskaya, Nina Petrovna, 3,671,125.
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Hight, Hanford Z.; and Lesky, Stephen, 3,676,254.
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Muller, John T., 3,670,807.
Muller, John Thomas; Scull, William L.; Cooper, James H.; and Soderberg, Curt A., 3,642,021.
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Morgan, Leslie, 3,685,063.
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Pinto, Peter J.; King, Donald M.; and McCarthy, Roy B., 3,643,705.
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Abegg, Moroni Taylor; and Leslie, William B., 3,659,527.
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- Kraschnewski, Melvin W.; and Lesniewski, Gerald F., 3,690,483.
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Hedegaard, Kristen; and Lessmeister, Anton, 3,658,021.
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- Lester Engineering Company: *See—*
Schwartz, William H., 3,640,662.
Schwartz, William H., 3,650,654.
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Bloch, Herman S.; and Lester, George R., 3,660,503.
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Bloch, Herman S.; Illingworth, George E.; and Lester, George W., 3,681,424.
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- Lestra AG: *See—*
Kolb, Dieter, 3,677,090.
- Lestron International Corporation: *See—*
Lester, Robert W., 3,643,346.
- Lesuer, William Monroe, to Lubrizol Corporation, The. Mixed ester-metal salts and lubricants and fuels containing the same. 3,632,510, 1-4-72, Cl. 252-35.
- Lesur, Pierre F.: *See—*
Simonet, Guy A.; and Lesur, Pierre F., 3,702,525.

- Lesyk, Leo; and Lawson, James M., Jr., to Bird Electronic Corporation. Fluidcooled coaxial line terminator. 3,634,784, 1-11-72, Cl. 333-22.
- Leszczynski, Martin E.: *See—*
- Anderson, Andrew W.; Alexander, James; Leszczynski, Martin E.; and Higgins, Lester A., 3,656,273.
- Leszczynski, Martin E., to Scandia Packaging Machinery Company. Apparatus for aligning a wrapper sheet in a wrapping machine. 3,683,585, 8-15-72, Cl. 53-51.000.
- Leszkovsky, Gyorgy: *See—*
- Guczoghy, Lajos; Puklics, Maria; Kelemen, Gyorgy; and Leszkovsky, Gyorgy, 3,639,415.
- Leszkowsky, Gyorgy: *See—*
- Harsanyi, Kalman; Reiter, Jozsef; Korbonits, Dezso; Goncz, Csaba; Takacs, Kalman; Bako, Erzsebet; Leszkowsky, Gyorgy; Tardos, Laszlo; and Vertesy, Csaba, 3,647,809.
- Leszyk, Gerald Martin: *See—*
- Barbehenn, Herbert S.; Irizarry, James Michael; and Leszyk, Gerald Martin, 3,682,639.
- Letarte, Frank M. Storm door glazing bead. 3,674,082, 7-4-72, Cl. 166-371.000.
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- Letheren, John David: *See—*
- Lloyd, John George; and Letheren, John David, 3,683,415.
- Leto, Alfonso; and Davis, William R., to Western Technical Products, Inc. Resistance tester for producing an audible tone that varies with the resistance. 3,689,832, 9-5-72, Cl. 324-65.000.
- Leto, Joseph T.: *See—*
- Sly, Thomas L.; Weis, Joseph A.; and Leto, Joseph T., 3,643,164.
- LeTourneau, R. G., Inc.: *See—*
- Molby, Lloyd A.; Magown, Lloyd L.; and Steiner, Larry T., 3,662,841.
- Molby, Lloyd A., 3,684,314.
- White, James C., Jr.; and Wolfe, Roger L., 3,656,795.
- Letournel, Emile: *See—*
- Lagrange, Jean; and Letournel, Emile, 3,688,316.
- Letourneur, Gilbert: *See—*
- Mahe, Yves; Letourneur, Gilbert; and Devillas, Jean-Luc, 3,690,910.
- Letschert, Werner: *See—*
- Bol, Jan; Heinze, Werner; Gebhardt, Josef; and Letschert, Werner, 3,646,352.
- Lett, James E. System for constructing drain lines. 3,664,137, 5-23-72, Cl. 61-11.
- Lettenmayer, Rolf-Dieter; Schonherr, Erich; and Tittmann, Egon, to Bosch, Robert, G.m.b.H. Apparatus for filling the suction chamber of a pump at high pump speeds. 3,644,065, 2-22-72, Cl. 417-300.
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- Leu, Francois J.; Tosin, Peter M.; and Werner, Ernst, to Omega Louis Brandt & Frere S.A. Time measuring system for swimming competitions. 3,676,696, 7-11-72, Cl. 307-119.000.
- Leubner, Gunther: *See—*
- Findewirth, Wolfgang; Irmischer, Helmut; Kessler, Gunther; and Leubner, Gunther, 3,651,669.
- Leucci, Gino. Shield for endoscopic instruments. 3,674,016, 7-4-72, Cl. 128-4.000.
- Leuchs, Ottmar: *See—*
- Matthieu, Paul; Leuchs, Ottmar; Glander, Fritz; Kuypers, Hubert; and Pelz, Diethart, 3,698,440.
- Leuck, Carl A.; and Schindelbeck, Fritz H., to Collins Radio Company. Reactor coil form. 3,665,358, 5-23-72, Cl. 336-96.000.
- Leuck, Donald D.: *See—*
- Budzynski, Leonard M.; and Leuck, Donald D., 3,665,401.
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- Leuck, Hans; and Kratz, Erich, to Dynamit Nobel Aktiengesellschaft. Process for conducting exothermic chemical reactions in heterogeneous gas-liquid mixtures. 3,663,611, 5-16-72, Cl. 260-524.
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- Burg, Karlheinz; Wolters, Ernst; Cherdron, Harald; and Leugering, Hans-Joachim, 3,704,275.
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- LeUng, Han Chung: *See—*
- Fox, James H.; Dworkin, Darryl R.; and LeUng, Han Chung, 3,666,274.
- Leung, Peter S. K., to Du Pont de Nemours, E. I., and Company. Process for dyeing polyamide fibers with cationic dyes and zinc thiocyanate. 3,652,199, 3-28-72, Cl. 8-30.
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- Goldstein, Avram; Leute, Richard K.; and Ullman, Edwin F., 3,690,834.
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- Leutenegger, Nicolas W. Temporary sign brackets. 3,638,894, 2-1-72, Cl. 248-221.
- Leuteritz, Jochen: *See—*
- Ullrich, Walter; Lohse, Karl-Heinz; Leuteritz, Jochen; Zeitzschel, Gunter; and Fasol, Robert, 3,668,069.
- Leutert, Friedrich, Firma: *See—*
- Lodynski, Emil, 3,679,178.
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- Leutwein, Manfred: *See—*
- Streicher, Heinz; Riek, Siegfried; and Leutwein, Manfred, 3,645,612.
- Streicher, Heinz; Riek, Siegfried; and Leutwein, Manfred, 3,674,351.
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- Levangie, Gilbert: *See—*
- Hokanson, Lyle W.; Savage, James R.; Smith, E. Peter; Levangie, Gilbert; and Klaas, William, 3,669,196.
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- Bienert, Walter B.; Levedahl, William J.; and Streb, Alan J., 3,672,443.
- Leveen, Harry H.: *See—*
- Rubricius, Jeanette Lois, 3,656,480.
- Leveikin, Mikhail Shevelevich: *See—*
- Orlov, Nikolai Nikolaevich; Leveikin, Mikhail Shevelevich; and Pukitis, Ilmar Alfredovich, 3,643,484.
- Levek, Robert P.: *See—*
- Thomas, Robert M.; and Levek, Robert P., 3,681,468.
- Level, Bertrand, to Plastrex-Manurhin-S.A.R.L. Creel for rotatable bobbins. 3,648,948, 3-14-72, Cl. 242-156.
- Level, Bertrand P. E., to Plastrex-Manurhin-S.A.R.L. Tube winding apparatus. 3,641,975, 2-15-72, Cl. 118-107.
- Levelink, Herman G.: *See—*
- van den Berg, Hendrik; and Levelink, Herman G., 3,666,504.
- Levell, Derek Alfred. Electronic circuit suitable for use as frequency selective amplifier or oscillator. 3,667,067, 5-30-72, Cl. 331-59.000.

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- Levenberg, Bruce: *See—*
- Roon, Robert J.; and Levenberg, Bruce, 3,655,516.
- Levenberg, Ninel Efimovna: *See—*
- Timofeev, Mikhail Mikhailovich; Sokolov, Vladimir Leonidovich; German, Samuil Iosifovich; Levenberg, Ninel Efimovna; and Popov, Nikolai Ivanovich, 3,644,144.
- Levenberger, Lucien: *See—*
- Steinmann, Samuel; and Levenberger, Lucien, 3,683,616.
- Levene, Leon; and Thomas, Ian M., to Owens-Illinois, Inc. Process of converting metalorganic compounds and high purity products obtained therefrom. 3,640,093, 2-8-72, Cl. 65-134.
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- Levensohn, David Z.: *See—*
- Duke, Bernard; and Levensohn, David Z., 3,643,694.
- Duke, Bernard; and Levensohn, David Z., 3,671,151.
- Leventhal, Howard L., to Ethyl Corporation. Bag. 3,670,953, 6-20-72, Cl. 229-57.000.
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- Lever Brothers Company: *See—*
- Aneja, Rajindra, 3,704,254.
- Augustin, Horst; Klussendorf, Siegfried; and Kofer, Konrad, 3,663,445.
- Barth, Hans; Griess, Wilhelm; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Sagredos, Angelos, 3,663,446.
- Barth, Hans; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Griess, Wilhelm, 3,706,675.
- Best, Peter; and Schweigl, Othmar Friedrich, 3,684,723.
- Blake, Anthony; Halliday, Denis Malcolm; and Woods, Michael Faulkner, 3,671,268.
- Boertje, Arie Leendert; and Philpott, Peter John, 3,696,735.
- Boldingh, Jan; Heslinga, Lammert; Schmid, Ernst; and Syrovatka, Rudolf, 3,686,127.
- Brinkman, Hendrik Willem; and van der Heyden, Arnoldus, 3,653,920.
- Brouwer, Jan Nicolaas; Henning, Gerardus Johannes; and Van Der Wel, Hendrik, 3,682,880.
- Brown, Frederick G., 3,679,347.
- Cahn, Arno; Ackilli, Joseph Anthony; and Carroll, Frank Emery, 3,649,543.
- Carroll, Francis Emery; and Seebold, Walter Charles, 3,671,630.
- Caverly, Brian Leonard; and Rossell, John Barry, 3,706,576.
- Childs, Mark Glendower Hyde, 3,659,534.
- Clippingdale, John Walter; and Watson, Charles Andrew, 3,662,060.
- Clippingdale, John Walter; and Watson, Charles Andrew, 3,678,155.
- Copier, Harald; and Tonsbeek, Christiaan Herman Theodoor, 3,678,064.
- Detzel, Joseph, 3,684,153.
- Feenstra, Willem Hendrik; and Keppler, Johann Georg, 3,664,851.
- Fielibert, Josef Frans, 3,679,509.
- Fondu, Michel Paulin Valere; and Willems, Marcel Guillaume August, 3,634,100.
- Forsthoef, Ernst Ludwig, 3,694,547.
- Fransen, Cornelis Willem; and Van Kampen, Daniel Marten, 3,657,146.
- Gabarez, Mario, 3,688,969.
- Greenwood, John Malcolm; and Stokes, David Howard, 3,669,891.
- Hawkins, Arthur Ernest; and Taylor, Kenneth William, 3,634,561.
- Holscher, Ebo Jan; Okkerse, Cornelis; and Rozendaal, Adrianus, 3,649,563.
- Hornig, Hans Werner; and Walz, Kurt, 3,672,826.
- Howard, John Alban, 3,633,770.
- Huault, Jean, 3,638,990.
- Hynam, Brian Michael; Wilby, John Leslie; and Young, John Ralph, 3,684,722.
- Kenny, Terrence G., 3,707,503.
- Kerkhoven, Frederik Johan; and Troost, Seyer, 3,639,288.
- Lachner, Otto, 3,643,829.
- Lamberti, Vincent; and Konort, Mark D., 3,635,830.
- Lamberti, Vincent; and Sepulveda, Ralph R., 3,644,203.
- Lamberti, Vincent; and Lemaire, Henry, 3,652,764.
- Lamberti, Vincent; and Winnegrad, Ronald R., 3,668,134.
- Lamberti, Vincent; Konort, Mark D.; and Weil, Ira, 3,692,685.
- Lamberti, Vincent; Lemaire, Henry; and Cahn, Arno, 3,707,511.
- Linsen, Bastiaan Gerardus; and Osinga, Theo Jan, 3,673,115.
- Malhotra, Virender Nath, 3,696,143.
- Martin, Donald J., 3,703,583.
- Martin, John Robert, 3,640,880.
- Matthaei, Raymond George, 3,673,294.
- Menz, Hans-Udo; Rost, Johannes Erich; and Wieske, Theophil, 3,658,555.
- Menz, Hans-Udo; Trapp, Horst Otto Adolf; and Wieske, Theophil, 3,663,235.
- Nooi, Jacobus Roelof, 3,666,796.
- Osborne, David Richard Duke, 3,674,850.
- Osborne, David Richard Duke, 3,706,799.
- Pader, Morton, 3,689,637.
- Pardun, Hermann, 3,652,397.
- Pardun, Hermann, 3,661,795.
- Pardun, Hermann, 3,661,946.
- Priestley, Hill M., 3,642,909.
- Priestley, Hill M.; and Wilson, James H., 3,660,497.
- Priestley, Hill M.; and Wilson, James H., 3,670,027.
- Priestley, Hill M., 3,697,587.
- Rawlinson, John, 3,707,502.
- Rubin, Fred K.; and Carmack, Carl J., 3,640,875.
- Rudy, Jerome; and Rapisarda, Anthony A., 3,650,816.
- Rudy, Jerome, 3,681,241.
- Seguin, Albert Charles Edward, 3,683,582.
- Sepulveda, Ralph Raymond; and Schoene, Kenneth Fred, 3,660,286.
- Tonsbeek, Christiaan Herman Theodoor, 3,697,291.
- Van Beek, Wilhelmus Petrus; and Osinga, Theo Jan, 3,637,529.
- Van Beek, Wilhelmus Petrus; and Osinga, Theo Jan, 3,668,148.
- van den Ouweland, Godefridus Antonius Maria; and Peer, Hendricus Gerardus, 3,651,097.
- Van Den Ouweland, Godefridus Antonius Maria; and Peer, Henricus Gerardus, 3,697,295.
- Van Dorp, David Adriaan; Akroyd, Philip; and Mindt, Lothar, 3,686,003.
- Viccaro, John P.; and Weaver, John M., 3,663,371.
- Vinson, Leonard J.; and Masurat, Thomas, 3,655,416.
- Vinson, Leonard J.; and Masurat, Thomas, 3,660,566.
- Weil, Ira, 3,686,098.
- Wiesner, Wilfried; and Pader, Morton, 3,662,059.
- Leverdant, Bernard, to Societe Anonyme D.B.A. Mechanical actuating mechanism for disc brake. 3,638,763, 2-1-72, Cl. 188-72.6.
- Leverenz, Klaus: *See—*
- Gottschlich, Alois; and Leverenz, Klaus, 3,705,145.
- Leverett, Glenn Frederick, to Du Pont de Nemours, E. I., and Company. Granular polytetrafluoroethylene of good moldability and apparent bulk density. 3,690,569, 9-12-72, Cl. 241-17.000.
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- Levesque, Albert H.: *See—*
- Popper, Felix B.; and Levesque, Albert H., 3,644,444.
- Levetus, Francis Benjamin: *See—*
- Lee, Norman; and Levettus, Francis Benjamin, 3,650,335.
- Levey, Richard S. Cycle theft alarm. 3,678,455, 7-18-72, Cl. 340-63.000.
- Levi, Alberto: *See—*
- Camporese, Marsilio; and Levi, Alberto, 3,705,443.
- Levi, Clifford A., to Alpha Industries, Inc., mesne. Method of producing semiconductor devices. 3,669,773, 6-13-72, Cl. 156-17.000.
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- Levin, Alfred A.: *See—*
- Richter, Sidney B.; and Levin, Alfred A., 3,639,404.
- Richter, Sidney B.; and Levin, Alfred A., 3,677,735.
- Levin, Ezra, to VioBin Corporation, mesne. Method of producing fat and edible solids from biological material using vapor heated solvent. 3,674,657, 7-4-72, Cl. 203-49.000.
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- Levin, William: *See—*
Fisher, George Myles Cordell; Froehlich, Fritz Edgar; Levin, William; McDowell, Blake, III; and O'Boyle, Leonard Edward, 3,706,850.
- Levin, Yehuda: *See—*
Katchalski, Ephraim; Goldstein, Leon; Levin, Yehuda; and Blumberg, Shmaryahu, 3,650,901.
Katchalski, Ephraim; Goldstein, Leon; Levin, Yehuda; and Blumberg, Shmaryahu, 3,706,633.
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Colom, Lucas A.; and Levine, Harold A., 3,639,185.
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Levine, Beth, 3,678,604.
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Harris, Ronald D.; and Levine, Leon, 3,673,228.
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Laming, Frank P.; Levine, Solomon L.; and Sincerbox, Glenn T., 3,695,879.
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Greanias, Evon C.; and Levine, Wilbur J., 3,641,500.
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Walz, Frank C.; and Davis, Jerry B., 3,636,667.
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Bodeck, Andrew Henry; and Levinstein, Hyman Joseph, 3,701,127.
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Levine, David J.; and Levinstein, Moses A., 3,667,985.
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Austin, Arthur L.; Pizzini, Louis C.; and Levis, William W., Jr., 3,639,541.
Pizzini, Louis C.; and Levis, William W., Jr., 3,639,542.
Pizzini, Louis C.; Demou, John G.; Patton, John T., Jr.; and Levis, William W., Jr., 3,652,639.
- Levisohn, Reuben: *See—*
Spiegelman, Solomon; and Levisohn, Reuben, 3,689,475.
- Levit, Georgy Mikhailovich: *See—*
Chelnokov, Ivan Ivanovich; Garbuzov, Vladimir Mikhailovich; Koshelev, A. Vladimir; Levit, Georgy Mikhailovich; Maltsev, Albert Alexandrovich; and Myachev, Vladimir Fedorovich, 3,701,402.

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Bienwald, Wolfgang F.; and Bowie, William J., 3,646,291.
Bienwald, Wolfgang F.; and Bowie, William J., 3,662,136.
Johnson, George E.; and Newman, Walter, 3,639,887.
Johnson, George E., 3,681,594.
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Bunger, Fred Lee; and Levitsky, Michael, 3,689,300.
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Brosilow, Jerry; and Levitt, Jack, 3,653,974.
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Anderle, Joseph A., 3,646,986.
Debs, Victor, 3,703,920.
- Levon, Ernest F.: *See—*
Cusic, John W.; and Levon, Ernest F., 3,642,836.
- Levon, Joseph M.: *See—*
Katz, Sherwin D.; and Levon, Joseph M., 3,667,722.
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Pannier, Karl A., Jr.; Reynolds, Gordon S.; and Sorenson, James L., 3,680,560.
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Katz, George M.; and Levy, Arthur L., 3,656,856.
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Shaw, John K.; Romolo, John B.; and Levy, Charles, 3,684,666.
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Martin, Aaron J.; and Levy, Eugene J., 3,684,454.
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Dahms, Harold; Levy, Gabor B.; and Seltzer, David M., 3,682,783.
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Bruce, Joseph A. G.; Levy, Henry M.; and Oborn, Pyliss, 3,635,660.
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Emmons, William D.; and Levy, Jerome F., 3,705,189.
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Friedman, David; and Levy, Kenneth, 3,660,782.
Friedman, David; and Levy, Kenneth, 3,693,066.
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Moravick, Donald W.; and Levy, Leon M., 3,704,892.
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Klamer, Reuben B.; and Levy, Marshall, 3,640,537.
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Arad, Yael; Levy, Moshe; Miller, Israel R.; and Vofsi, David, 3,649,666.
Arad, Yael; Levy, Moshe; and Vofsi, David, 3,686,269.
Arad, Yael; Levy, Moshe; and Vofsi, David, 3,686,270.
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Rettew, Richard Raymond; Wirth, David Griffith, Jr.; and Levy, Newton, Jr., 3,655,330.
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- Levy, Robert M., to Allied Paper Incorporated. Thermally developable diazotype printing paper and composition therefore. 3,660,581, 5-2-72, Cl. 96-91.
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Wieland, Theodor; Konz, Wilhelm; Faesel, Jurgen; and Lewalter, Jurgen, 3,705,887.
- Lewandowski, Marcell: *See—*
Gawronski, Henryk; Kunicki, Adam; and Lewandowski, Marcell, 3,689,831.
- Lewbill Industries, Inc.: *See—*
Coffman, William H., Jr., 3,638,637.
- Lewendel, Jean Stanislaw: *See—*
Ponzini, Sandro; Castelli, Paolo; and Lewendel, Jean Stanislaw, 3,639,398.
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Greffe, Philipp G.; Lewiecki, Edward M.; and Shnitzler, Meyer J., 3,634,122.
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Wilson, Martin Norman; Smith, Peter Faraday; Walters, Colin Russell; Lewin, John David; Broomfield, Robert Walter; and Graham, Robert Leslie, 3,662,093.
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- Zenger, Richard D.; and Lewis, Albert F., 3,686,820.
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- Quaal, George J.; and Lewis, Alfred, 3,689,412.
- Lewis, Andrew J. Illuminator for biological test plates. 3,643,078, 2-15-72, Cl. 240-2.
- Lewis, Armand Francis: *See—*
- Pietsch, Gerhard Joseph; and Lewis, Armand Francis, 3,644,569.
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- Cohen, Jerry J.; and Lewis, Arthur E., 3,706,630.
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- Pietsch, Roy; and Lewis, Bernard L., 3,675,989.
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- Randall, Newton P.; and Lewis, Brian J., 3,661,139.
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- Taysom, Patrick Arnold; Lewis, Brian Mark; and Kittel, Clive Francis, 3,646,810.
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- Lewis, Ralph M.; Lewis, Charles T., Jr.; Tupper, George B.; and Popken, Gary D., 3,652,708.
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- Marquardson, Kent F.; and Lewis, Daniel M., 3,682,809.
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- Edwards, William H.; and Lewis, Donald M., 3,632,053.
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- Blackwell, Dana J., 3,675,410.
- Horwinski, Elwood R., 3,682,250.
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- Harben, Grover S., Jr.; Lewis, Ernest E.; and Sloan, Lloyd E., 3,651,939.
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- Lewis, Frederick M.: *See—*
- Berger, Abe; and Lewis, Frederick M., 3,704,261.
- Lewis, George E.: *See—*
- Murman, Fernando; Lewis, George E.; Dunn, Allen I.; and O'Brien, Charles E., 3,662,823.
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- Klenke, Edward F.; and Lewis, George L., 3,650,790.
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- Perrin, Alfred J.; Dell John D.; Evans, David B.; and Lewis, George Stanley, 3,677,339.
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- Thraillkill, Arthur E.; and Lewis, Herbert N., 3,656,433.
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- Rorick, William G.; and Lewis, Herbert O., 3,670,693.
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Kimber, Erich Voldemar; and Lewkowicz, Josef, 3,692,124.
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Smith, Earl E., 3,636,236.
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Nast, Roland; Ley, Kurt; Eholzer, Ulrich; Metzger, Karl-Georg; and Fritsche, Dieter, 3,639,400.
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Nast, Roland; Oertel, Harald; and Ley, Kurt, 3,642,669.
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Seng, Florin; Ley, Kurt; Metzger, Karl-Georg; and Fritsche, Dieter, 3,639,397.
Seng, Florin; and Ley, Kurt, 3,642,796.
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Samietz, Klaus P.; Wamser, Anton; and Weingartner, Ernst F., 3,665,084.
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Rautenbach, Robert; Lutzeyer, Wolfgang; Werner, Udo; Lymbopoulos, Stravros; and Zimmermann, Hubert, 3,662,755.
- Leybold-Heraeus-Verwaltung G.m.b.H.: *See—*
Dietrich, Walter A.; and Dellert, Helmut G. M. V., 3,652,821.
- Kienel, Gerhard, 3,645,779.
- Reimpel, Uwe; Scheidig, Helmut; Wolfgang, Hans Friedrich; and Schwartz, Domke, 3,689,680.
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Naylor, David C.; and Leyburn, Derek, 3,700,830.
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Brenner, Mannie; Chase, Fred L.; and Leydon, Arthur J., 3,676,386.
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Hansen, Charles M.; Muir, Joseph A.; and Leyh, Jeffrey R., 3,637,470.
- Leyland, Boris Nicholas: *See—*
Eaton, David Crawford; and Leyland, Boris Nicholas, 3,692,711.
- Leyland Gas Turbines Limited: *See—*
Barnard, Mark Carey Sedgwick; Bramley, Hugh Christopher; and Collet, Peter Jacobus, 3,650,317.
Barnard, Mark Cary Sedgwick, 3,692,098.
Barnard, Mark Cary Sedgwick, 3,703,206.
Butler, Lawrence, 3,692,146.
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Sans, Claude M.; Leynaert, Jacky; and Meauze, Georges D., 3,652,036.
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Morgan, Andrew, 3,704,559.
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Keiles, Yoel; Kelley, Fred W., Jr.; and Lezan, Georges R. E., 3,665,293.
Kelley, Fred W., Jr.; and Lezan, Georges R. E., 3,654,541.
Kelley, Fred W., Jr.; and Lezan, Georges R. E., 3,693,069.
- Lezhava, Gurami Semenovich: *See—*
Libkind, Mark Samuilovich; and Lezhava, Gurami Semenovich, 3,675,119.
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Brockett, Peter C.; and Pallat, Ludwig R., 3,641,486.
Jacob, Adir, 3,705,091.
- Lhommelet, Robert: *See—*
Soffer, Jacques; and Lhommelet, Robert, 3,697,845.
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Senes, Michel; Lhonore, Pierre; and Quibel, Jacques, 3,644,557.
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Amiable, Rene; Lhuillier, Jean-Noel; and Benkheiri, Paul, 3,667,391.
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Ali, Mir Akbar; Schwartz, Murray A.; and Li, Pei Ching, 3,677,778.
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Amundsen, Paul D.; and Liautaud, John N., 3,696,442.
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Etherington, Robert W.; and Liau, Koei-Liang, 3,639,458.
Etherington, Robert W., Jr.; and Liau, Koei-Liang, 3,673,255.
- Libaud, Francis: *See—*
Santerre, Fernand; and Libaud, Francis, 3,676,990.
- Libbey, Albert H.: *See—*
Gates, Percival T., Jr.; and Libbey, Albert H., 3,697,683.
- Libbey-Owens-Ford Company: *See—*
Beckham, Robert R.; Walters, Emmett L.; Brown, Jack G.; De Rose, Kenneth M.; and Ryan, Joseph D., 3,673,981.
Dean, George A., 3,682,329.
Hall, Harold R., 3,676,098.
Long, Bernard, 3,647,409.
Marriott, James G., 3,705,047.
Miller, Alfred H.; and Johnson, Lee F., 3,673,044.
Miller, Alfred H.; and Dean, George A., 3,679,076.
Miller, Richard C., 3,634,059.
Montgomery, Eldwin C., 3,637,364.
Montgomery, Eldwin C., 3,664,820.
Moyer, Henry F.; and Revells, Robert G., 3,685,714.
Niese, William F., 3,673,664.
Oelke, Waldemar W.; O'Connell, Thomas B.; and Herrington, Richard A., 3,637,362.
- Olson, Albert W., 3,656,471.
- Pile, Frank L.; and Olson, Earl J., 3,653,707.
- Ritter, George F., Jr., 3,632,326.
- Ritter, George F., Jr.; and Hymore, Frank J., 3,672,861.
- Ritter, George F., Jr., 3,677,733.
- Ritter, George F., Jr., 3,684,473.
- Soreghy, Ivan L., 3,643,756.
- Swilling, Francis L., 3,637,363.
- Swilling, Francis L., 3,653,868.
- Swilling, Francis L., 3,674,456.
- Swilling, Francis L., 3,684,472.
- Thayer, Arthur G., 3,643,499.
- Wampler, David M., 3,703,880.
- Weaver, William R., 3,692,551.
- Welker, Robert H.; and Halmbrecht, William L., 3,673,737.
- Zellers, James T., Jr., 3,695,861.
- Libbey-Owens-Ford Glass Company: *See—*
De Rose, Kenneth N., 3,650,217.
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Neeley, Victor I.; and Libby, Hugo L., 3,640,598.
Wandling, Clarence R.; and Libby, Hugo L., 3,706,029.
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Mason, Edwin E.; and Libby, Ross C., 3,689,825.
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Hendrickson, Alvin E., 3,660,666.
Schultz, Wilderich C., 3,657,697.
- Liberda, Heinz: *See—*
Kunstle, Gerhard; and Liberda, Heinz, 3,696,147.
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Toppins, Charles R.; Harvey, Samuel E.; Liberman, Harvey W.; Ratledge, Houston; and Voorhees, Steven C., 3,696,951.
- Liberman, Herbert E.: *See—*
Hoogendoorn, Helen M.; Liberman, Herbert E.; Narken, Bernt; and Sunners, Brian, 3,639,976.
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Juhl, William G.; and Libers, Roland, 3,670,041.
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Babilis, Robert C.; and Liberti, Frank N., 3,634,312.
Bialous, Charles A.; Campbell, Allen J.; and Liberti, Frank N., 3,697,481.
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Boari, Gianfranco; Liberti, Lorenzo; Merli, Carlo; and Passino, Roberto, 3,679,580.
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Potts, William F., 3,681,001.
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Carow, Robert N.; and Libit, Sidney M., 3,702,165.
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Rabinow, Jacob, 3,653,255.
Rabinow, Jacob, 3,675,932.
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Genz, Heinz; Liborius, Heinz; Pfeleiderer, Dieter; Schmidt, Karl; Berger, Dieter; and Seeliger, Horst, 3,650,892.
- Libu Shovel Co., A.G.: *See—*
Bergmann, Hermann Gustav Adolf, 3,669,481.
- Licata, William H.: *See—*
Chatham, James R.; and Licata, William H., 3,640,178.
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Gal, Pal, 3,650,017.
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Baranyi, Jozsef; and Lakatos, Laszlo, 3,660,034.
Szabo, Gyorgy; and Toth, Sandor, 3,687,775.
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Arndt, Heinz-Herbert; and Nosch, Edwin, 3,704,987.
Beneking, Heinz, 3,659,156.
Beneking, Heinz, 3,659,161.
Beneking, Heinz, 3,693,055.
Bohm, Harald; and Heffler, Joachim, 3,645,796.
Borchert, Edgar; Frese, Werner; Pikorz, Wolfgang; and Sonntag, Alois, 3,634,739.
Borner, Manfred, 3,638,201.
Borner, Manfred; Maslowski, Stefan; and Krumpholz, Oskar, 3,704,996.
Brune, Werner; Schwartz, Gunter; Dull, Ernst Hermann; and Polly, Edgar, 3,665,393.
Buchhold, Theodor Adam; and Bochenek, Eduard, 3,668,297.
Burkhardt, Gisbert, 3,649,002.
Carl, Heinz, 3,664,876.
Dickopp, Gerhard; Batsch, Helmut; and Schuller, Eduard, 3,654,401.
Dickopp, Gerhard, 3,696,220.
Fischer, Gerd; Straub, Dieter; and Voigt, Heinz Eberhard, 3,678,301.
Glock, Erwin, 3,636,478.
Gunzel, Gerhard, 3,706,047.
Hanff, Herbert, 3,676,936.
Haraszti, Tegze, 3,683,206.
Haraszti, Tegze, 3,684,903.
Held, Walter, 3,652,894.
Hilberg, Wolfgang, 3,688,279.
Hilberg, Wolfgang, 3,693,159.
Hilberg, Wolfgang, 3,706,078.

- Jager, Gerhard, 3,691,561.
 Juchmann, Heinz; and Lauterbach, Peter, 3,673,308.
 Klappenecker, Karl, 3,690,474.
 Kriesten, Horst, 3,690,160.
 Krock, Alwin; Page, Hans-Peter; and Hirschmann, Joachim, 3,705,389.
 Kuhlmann, Joachim, 3,653,029.
 Kuist, Max, 3,690,945.
 Lehmann, Bernhard, 3,649,125.
 Lertes, Kurt, 3,650,929.
 Lieb, Albert; and Niehuus, Hans-Christian, 3,688,143.
 Lotz, Alfred, 3,654,485.
 Mallebrein, Rainer, 3,670,322.
 Maslowski, Stefan, 3,666,345.
 Nuding, Erich, 3,636,452.
 Pabst, Wolfgang, 3,633,180.
 Progler, Max; Wessenberg, Klaus; Wagner, Winfried; and Ohn-sorge, Horst, 3,638,183.
 Rein, Hans-Martin; and Conze, Peter, 3,669,760.
 Riston, Ulrich, 3,690,713.
 Rucker, Friedrich; and Morz, Gunter, 3,654,571.
 Rummer, Heribert, 3,662,295.
 Saenger, Franz; and Straub, Dieter, 3,700,875.
 Schaffernicht, Klaus; and Schädlich, Gottfried, 3,706,896.
 Schenkel, Dieter, 3,654,393.
 Schenkel, Dieter, 3,683,120.
 Schiekel, Manfred; and Reder, Hurt, 3,684,345.
 Schimmer, Rigobert; and Gesing, Horst, 3,634,161.
 Schimmer, Rigobert; Gesing, Horst; and Cordes, Karl-Heinz, 3,706,015.
 Schmidt, Gunter-Karl, 3,669,381.
 Schweizerhof, Sigrid, 3,642,602.
 Sieber, Paul, 3,657,576.
 Stoltz, Werner, 3,657,780.
 Tillner, Siegfried; Heilmann, Heinz; and Ludemann, Joseph, 3,634,707.
 Traube, Klaus; and Acher, Heinz, 3,632,471.
 Ullrich, Walter; Lohse, Karl-Heinz; Leuteritz, Jochen; Zeitzschel, Gunter; and Fasol, Robert, 3,668,069.
 Vom Bruck, Kar, 3,634,602.
 Lich, Richard L., to General Steel Industries, Inc. High speed railway vehicle suspension. 3,636,886, 1-25-72, Cl. 105-164.
 Lich, Richard L., to General Steel Industries, Inc. High capacity freight cars. 3,648,622, 3-14-72, Cl. 105-367.
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 Lich, Richard L., to General Steel Industries, Inc. Motorized railway locomotive truck. 3,693,553, 9-26-72, Cl. 105-136,000.
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 Ilayashenko, Georgy Alexandrovich; Laventman, Vilyam Efimovich; Lichman, Nikolai Iosifovich; Rabinovich, Iosif Moiseevich; and Ryaboi, Nikolai Yakovlevich, 3,632,281.
 Lichodziejewski, Wieslaw: See—
 Johnson, Robert F.; and Lichodziejewski, Wieslaw, 3,677,627.
 Lichstein, Bernard M.; and Du Bois, Robert J., to Allied Chemical Corporation. Hexahydro-1,3,5-trisubstituted-s-triazines containing fluorine. 3,657,235, 4-18-72, Cl. 260-248.
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 Licht, Georg S.: See—
 Wellhausen, Hans; and Licht, Georg S., 3,654,566.
 Lichte, Carl L., to Dresser Industries, Inc. Large diameter bit with a replaceable stem. 3,659,659, 5-2-72, Cl. 175-53,000.
 Lichte, Henry P., Jr., to Sperry Sun Well Surveying Company. Method and apparatus for determining the orientation of a borehole. 3,633,280, 1-11-72, Cl. 33-205.
 Lichte, Norbert, to Rafi Raimund Finsterholz Elektrotechnische Spezialfabrik, Firma. Holder for electrical lamps with a glass base cap. 3,681,741, 8-1-72, Cl. 339-170,000.
 Lichtenberger, Harley, to Whirlpool Corporation. Refrigeration apparatus. 3,638,449, 2-1-72, Cl. 62-272.
 Lichtenberger, Joseph Alois: See—
 Brandts, Theodor Gerardus; Lichtenberger, Joseph Alois; and Bentvelzen, Joseph Maria, 3,639,199.
 Lichtenstein, Bernard: See—
 Widmark, Rudolph M.; Lichtenstein, Bernard; Paseltiner, Lynn; and Padawer, Jacques, 3,700,555.
 Lichtenstein, Bernard; and Kroger, Bruce G. Means and method for detection of glaucoma. 3,690,158, 9-12-72, Cl. 73-80,000.
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 Lichtenstein, Murray M.: See—
 Schoenbrun, Errol A.; Lichtenstein, Murray M.; and Podos, Bernard, 3,661,151.
 Lichtenvort, Uwe; Kluge, Johannes; and Schleyer, Meinolf, to Demag Aktiengesellschaft. Hanging type switch construction. 3,704,355, 11-28-72, Cl. 200-157,000.
 Lichtenwalter, Carl G.: See—
 Marx, Norbert M.; and Lichtenwalter, Carl G., 3,685,756.
 Lichtenwalter, Myrl; and Yeakey, Ernest Leon, to Jefferson Chemical Company, Inc. Method for preparation of aminoethyl-piperazine. 3,692,789, 9-19-72, Cl. 260-268,05y.
 Lichtfuss, Gerhardt E., to Sundstrand Corporation. Actuator system. 3,662,550, 5-16-72, Cl. 60-53.
 Lichti, Robert D. Guide mechanism for vertical storage device. 3,656,608, 4-18-72, Cl. 198-138.
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 Lichtman, Irwin A.; and Rosengart, Abraham M., to Diamond Shamrock Corporation. Defoamer composition and method of preparation. 3,677,963, 7-18-72, Cl. 252-358,000.
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 Lichtman, Joseph Z., to United States of America, Navy. Vacuum process for application of sheet coatings. 3,706,621, 12-19-72, Cl. 156-285,000.
 Lichtneckert, Istvan Janos Antal: See—
 Lundgren, Claes Erik Gunnar; and Lichtneckert, Istvan Janos Antal, 3,653,024.
 Lichy, Edward J.: See—
 Aronson, Arthur H.; Lichy, Edward J.; Guess, Clifford A.; and Samways, Norman L., 3,661,537.
 Licitis, Gunars: See—
 Glass, Marvin I.; Breslow, Jeffrey D.; and Licitis, Gunars, 3,656,751.
 Licitis, Gunars, to Glass, Marvin, & Associates. Phonograph index means. 3,697,086, 10-10-72, Cl. 274-17,000.
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 Liekliter, Robert Paul; and Reeves, John F., to Flangeklamp Corporation. Spacer assembly for holding a pair of panel connectors in a wall structure. 3,685,230, 8-22-72, Cl. 52-677,000.
 Lidak, Marger Jurievich: See—
 Giller, Solomon Aronovich; Zhuk, Regina Abramovna; Lidak, Marger Jurievich; and Ziderman, Aina Avgustovna, 3,635,946.
 Liddel, Harold G.: See—
 Dunn, James L., Jr.; and Liddel, Harold G., 3,685,959.
 Liddell, Harold G., to Dow Chemical Company. The. Process for reclaiming wood treating composition. 3,634,289, 1-11-72, Cl. 252-404.
 Liddell, Harold G., to Dow Chemical Company. The. Corrosion inhibition. 3,687,611, 8-29-72, Cl. 21-2,700.
 Liden, Sam P.: See—
 Dendy, Joe B.; and Liden, Sam P., 3,633,002.
 Lidert, Albert W.: See—
 Lidert, Albert W., 3,641,794.
 Lidert, Albert W., 1/2 interest to Lidert, Albert W.; trustee for and Carrozza, Sam J. Monitoring system for a helical coil spring winder and method. 3,641,794, 2-15-72, Cl. 72-4.
 Lidert, Albert W.; trustee for: See—
 Lidert, Albert W., 3,641,794.
 Lidgard, Robert J., to Ametek, Inc. Safety relief device. 3,704,807, 12-5-72, Cl. 220-89,00a.
 Lidl, Rolf: See—
 Baumgartner, Siegfried; Kindler, Hubert; Lidl, Rolf; and Boden, Heinrich, 3,674,398.
 Baumgartner, Siegfried; Fries, Bernd; Lidl, Rolf; and Zippe, Gunter, 3,674,408.

- Lidorenko, Nikolai Stepanovich; Landsman, Arkady Pavlovich; Strebkov, Dmitry Semenovich; Zaitseva, Aita Konstantinovna; Zadde, Vitaly Viktorovich; and Kosarev, Viktor Sergeevich. Semiconductor photoelectric generator. 3,653,971, 4-4-72, Cl. 136-89.
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 Lieb, David P.: See—
 Rufeh, Firooz; Lieb, David P.; and Howard, Robert C., 3,663,840.
 Lieb, Erwin: See—
 Bergmeister, Eduard; Lieb, Erwin; Schmidtkonz, Christian; and Wiest, Hubert, 3,654,209.
 Lieb, Nathaniel H.; and Kerfoot, Franklin W., Jr., to Star Dental Manufacturing Co., Inc.; a/k/a Star Dental Manufacturing Company Star Dental Mfg. Co., Inc. Handpiece with improved chuck assembly. 3,631,597, 1-4-72, Cl. 32-26.
 Liebe, Robert James, Jr. Plastic athletic lettering material and process for manufacturing same. 3,660,212, 5-2-72, Cl. 161-41,000.
 Liebe, Werner: See—
 von Konig, Anita; Liebe, Werner; and Timmler, Helmut, 3,674,481.
 Liebe, Werner; Von Rintelen, Harald; Vanreusel, Gerard Laurens; and Vandeputte, Camille Angelina, to Agfa-Gevaert Aktiengesellschaft. Silver salt diffusion alkaline bath of trisodium phosphate and a polyalcohol. 3,645,731, 2-29-72, Cl. 96-29.
 Liebe, Werner; Petersen, Siegfried; and von Konig, Anita, to Agfa-Gevaert Aktiengesellschaft. Silver salt diffusion process. 3,671,242, 6-20-72, Cl. 96-29,000.
 Liebegott, Hans-Peter: See—
 Schabel, Joachim; and Liebegott, Hans-Peter, 3,681,104.
 Liebel-Flarsheim Company; division of Sybron Corporation: See—
 Bross, William T., 3,658,067.
 Liebenhoff, Reinhardt: See—
 Ross, Gerhard; Reul, Bernhard; Tillmann, Walter; and Liebenhoff, Reinhardt, 3,642,393.
 Liebens, Raymond B. J., to ICP, Inc. Electrostatic photocopying machine. 3,673,472, 6-27-72, Cl. 317-262,00a.
 Lieber, Clement E.: See—
 Blake, Lawrence W.; Bett, Bruce D.; and Lieber, Clement E., 3,634,924.
 Lieber, Hans-Wilhelm; and Kramer, Rolf, to Fernsteuergerate Kurt Oelsch KG. Layer thickness indicating device for electrolytically deposited materials. 3,669,868, 6-13-72, Cl. 204-228,000.
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 Liebergeld, Rudolf. Cold moulding press. 3,651,683, 3-28-72, Cl. 72-341.
 Liebergeld, Rudolf. Workpiece conveyer device for a press. 3,651,684, 3-28-72, Cl. 72-345.
 Liebergott, Norman: See—
 Yorston, Frederick H.; and Liebergott, Norman, 3,655,505.
 Liebergott, Norman, to Pulp and Paper Research Institute of Canada. Bleaching of mechanical cellulose pulp with ozone in the presence of a peroxygen compound. 3,663,357, 5-16-72, Cl. 162-65.
 Lieberman, Abraham Buddy. Wicket bags. 3,640,450, 2-8-72, Cl. 229-53.
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 Lieberman, Abraham Buddy, to Glolok Co., Ltd. Automatic loading, arranging and dispensing device for articles and including containers, pouches and the like. 3,698,153, 10-17-72, Cl. 53-61,000.
 Lieberman, Aharon, to Computed Living Space, Inc. Modular refrigeration unit. 3,650,122, 3-21-72, Cl. 62-298.
 Lieberman, David A.: See—
 Florsheim, Leonard S., Jr.; Lieberman, David A.; Archer, Harold B.; and Nothmann, Gerhard A., 3,640,623.
 Lieberman, Emanuel R.: See—
 Tsuzuki, Toshio; and Lieberman, Emanuel R., 3,681,093.
 Lieberman, Hillel: See—
 Elkin, Samuel; and Lieberman, Hillel, 3,681,363.
 Lieberman, Hillel, to Betz Laboratories, Inc. Fine paper mill defoamer and its use. 3,697,438, 10-10-72, Cl. 252-321,000.
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 Lieberman, Jan Mark: See—
 Judd, Frank Fuller; Lieberman, Jan Mark; and Wilhart, Helmut, 3,638,096.
 Judd, Frank Fuller; Lieberman, Jan Mark; and Wilhart, Helmut, 3,660,753.
 Judd, Frank Fuller; Lieberman, Jan Mark; and Wilhart, Helmut, 3,675,159.
 Lieberman, Lee M.; and Schumann, Robert T., to Technicon Instruments Corporation. Optical system for use in automatic, simultaneous multielement atomic spectroscopy sample analysis apparatus. 3,655,288, 4-11-72, Cl. 356-87.
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 Liebert Corporation: See—
 Liebert, Ralph C., 3,660,635.
 Liebert, Nancy B.: See—
 Kellogg, Lillian M.; and Liebert, Nancy B., 3,685,997.
 Liebert, Oskar; and Theilacker, Klaus, to Maschinenfabrik Augsburg-Nürnberg Aktiengesellschaft. Sheet feeding apparatus having gripper control, for use with printing machines. 3,703,281, 11-21-72, Cl. 271-79,000.
 Liebert, Ralph C., to Liebert Corporation. Humidification system. 3,660,635, 5-2-72, Cl. 219-273,000.
 Lieberthal, Edwin M. Automatic inventory control system with information tape. 3,684,863, 8-15-72, Cl. 235-61,70r.
 Liebertz, Wolfgang, to Container Corporation of America. Neck assembly for thin walled container. 3,656,668, 4-18-72, Cl. 222-570.
 Liebertz, Wolfgang; and Starr, Anthony J., to Container Corporation of America. Apparatus for forming a stackable container. 3,672,799, 6-27-72, Cl. 425-330,000.
 Liebherr, Harold R.: See—
 Cornish, Edward; and Liebherr, Harold R., 3,678,703.
 Liebig, Preston D.; and Hurlbut, William B., Sr., to Combustion Engineering Inc. Adjustable air pollution control scrubber bed. 3,696,589, 10-10-72, Cl. 55-233,000.
 Liebig, Rita: See—
 Scharf, Hans-Dieter; Droste, Wilhelm; and Liebig, Rita, 3,641,057.
 Liebl, Albert: See—
 Von Hornstein, Wolf Freiherr; Richt, Hubert O.; and Liebl, Albert, 3,695,549.
 Lieblang, Fritz. Method and apparatus for making plastic tubes. 3,654,037, 4-4-72, Cl. 156-512.
 Liebman, Samuel: See—
 Ehrig, Raymond J.; and Liebman, Samuel, 3,632,678.
 Liebold, Gert: See—
 Oppenlaender, Knut; Liebold, Gert; Mohr, Rudolf; Buettner, Egon; and Matschat, Karl, 3,684,735.
 Liebold, Gert; and Oppenlaender, Knut, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polymers of alkylene oxides as crude oil demulsifiers. 3,684,734, 8-15-72, Cl. 252-342,000.
 Liebowitz, Marvin: See—
 Compa, Russel Edward; and Liebowitz, Marvin, 3,701,202.
 Liebsch, Dietrich; and Altner, Wilhelm, to Farbenfabriken Bayer Aktiengesellschaft. Process for co-polymerization of aromatic and a aliphatic polyisocyanates to form polyisocyanurates. 3,645,979, 2-29-72, Cl. 260-77.5.
 Liebscher, Anton: See—
 Auberry, Horace R.; and Liebscher, Anton, 3,659,301.
 Auberry, Horace R.; and Liebscher, Anton, 3,701,273.
 Liebscher, Arthur. Pressure compensator for speaker cabinets. 3,667,568, 6-6-72, Cl. 181-31,00b.
 Liebscher, Johannes: See—
 Leifheit, Gunter; and Liebscher, Johannes, 3,631,557.
 Leifheit, Gunter; and Liebscher, Johannes, 3,665,540.
 Leifheit, Gunter; and Liebscher, Johannes, 3,696,458.
 Liebscher, Johannes, to Leifheit, Gunter, K.G. Floor treating apparatus. 3,638,267, 2-1-72, Cl. 15-41.
 Liechti, Alfred: See—
 Grandjean, Theo; Zumstein, Juan Ulrich; and Liechti, Alfred, 3,638,656.
 Liechti, Fred, Aktiengesellschaft: See—
 Grandjean, Theo; Zumstein, Juan Ulrich; and Liechti, Alfred, 3,638,656.

- Liechti, Hans Wilhelm: *See—*
 Artz, Klaus; Desai, Nalin Binduprasad; and Liechti, Hans Wilhelm, 3,632,569.
 Artz, Klaus; Desai, Nalin Binduprasad; and Liechti, Hans Wilhelm, 3,671,177.
 Defago, Raymond; Litzler, Alfred; Hertig, Jean; Angliker, Hans-Joerg; and Liechti, Hans Wilhelm, 3,632,291.
 Ramanathan, Visvanathan; and Liechti, Hans Wilhelm, 3,687,929.
 Liechti, Hans Wilhelm, to Ciba Limited. Water-insoluble phenyl-azo-phenyl dyestuffs. 3,663,531, 5-16-72, Cl. 260-206.
 Liechti, Peter: *See—*
 Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo, 3,642,783.
 Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo, 3,644,345.
 Siegrist, Adolf Emil; Maeder, Erwin; Liechti, Peter; and Guglielmetti, Leonardo, 3,687,880.
 Liechti, Peter; Maeder, Erwin; Guglielmetti, Leonardo; and Siegrist, Emil, to Ciba-Geigy AG. Stilbene derivatives. 3,682,900, 8-8-72, Cl. 260-240.0ca.
 Liechti, Peter, to Ciba-Geigy AG. Bis-naphthoxazoly-derivatives. 3,682,946, 8-8-72, Cl. 260-307.00d.
 Lieckfeld, Werner, to Bran & Lubbe. Vertical cylindrical silo with wall of flexible material. 3,664,072, 5-23-72, Cl. 52-63.
 Lieckfeldt, Hans: *See—*
 Thiele, Heinz; Becker, Dietrich; Hochstein, Roland; Rockstroh, Horst; and Lieckfeldt, Hans, 3,701,309.
 Liedberg, Kurt Herman, to Atlas Copco Aktiebolag. Spray gun with handle means. 3,650,479, 3-21-72, Cl. 239-527.
 Liedberg, Kurt Herman, to Atlas Copco Aktiebolag. Spray gun. 3,674,209, 7-4-72, Cl. 239-143.000.
 Liedberg, Kurt Herman, to Atlas Copco Aktiebolag. Spray gun. 3,688,990, 9-5-72, Cl. 239-524.000.
 Liedberg, Kurt Herman; Jonsson, Nils Erik Reinhold; and Svensson, Sten Gunnar Hugo, to Atlas Copco Aktiebolag. Method and means for controlling the delivery of liquid to spray guns. 3,692,214, 9-19-72, Cl. 222-334.000.
 Lieder, Gaylerd M.: *See—*
 Ayres, Richard H.; and Lieder, Gaylerd M., 3,673,759.
 Liedtke, Ronald R.: *See—*
 Gunther, Gregory M.; Fekete, Ferenc; Liedtke, Ronald R.; and Stephens, Donald H., 3,643,374.
 Liefing, Gordon V. Vehicle wash apparatus. 3,673,626, 7-4-72, Cl. 15-97.00r.
 Liehe, Hubert J.; and Hayne, Wilbur L., to Standard Oil Company (Indiana). Ureido thickened grease. 3,657,127, 4-18-72, Cl. 252-49.6.
 Liehmann, Gerhard: *See—*
 Borsutzki, Eberhard; and Liehmann, Gerhard, 3,693,513.
 Liemgruber, Willy; and Weigle, Manfred, to Hoffmann-La Roche Inc. Cyano containing hydrazones and methyl sulfate salts thereof. 3,655,716, 4-11-72, Cl. 260-459.
 Lien, Erling L., to Varian Associates. High efficiency traveling wave tube employing harmonic bunching. 3,668,544, 6-6-72, Cl. 330-43.000.
 Lien, Neil C., to United States of America, Atomic Energy Commission. Port plug for a plasma-confining cavity. 3,650,893, 3-21-72, Cl. 176-1.
 Lienard, Jean-Sylvain R.: *See—*
 Leipp, Emile A.; Castellengo, Michele M. T.; Lienard, Jean-Sylvain R.; Quinio, Jacques L.; Sapaly, Jean; and Teil, Daniel G., 3,632,887.
 Lienau, Rainer; and Hofmann, Friedrich, to Sud-Chemie Aktiengesellschaft. Apparatus for the production of concentrated hydrohalogen acids and metal oxides. 3,658,483, 4-25-72, Cl. 23-263.
 Lienemann, Darlo; and Henry, Daniel, to International Harvester Company. Planter. 3,670,671, 6-20-72, Cl. 111-77.000.
 Liepa, Alexander L., to Procter & Gamble Company. The. Production of ready-to-eat breakfast cereals containing soy flour. 3,687,687, 8-29-72, Cl. 99-83.000.
 Liepa, Alexander L., to Procter & Gamble Company, The. Meat analog apparatus. 3,693,533, 9-26-72, Cl. 99-234.00r.
 Liepelt, Donald W.: *See—*
 Conners, John A.; Liepelt, Donald W.; and Baulieu, William H., 3,692,276.
 Liepelt, Klaus J.: *See—*
 Walthers, Hans J.; and Liepelt, Klaus J., 3,685,650.
 Lieptz, Nathan S., to Noll, Curtis, Corporation. Key cutting machine with coordinated positioning and cutting movements. 3,633,451, 1-11-72, Cl. 83-205.
 Lierke, Ernst G.: *See—*
 Gauthier, William D.; and Lierke, Ernst G., 3,647,143.
 Liermann, Charles J.; and Moore, Joseph G. Swimming pool cover and rescue device. 3,668,711, 6-13-72, Cl. 4-172.130.
 Lieser, Ernst: *See—*
 Ettischer, Helmut; and Lieser, Ernst, 3,661,066.
 Lieser, Zeev. Intrusion systems employing digital processing circuitry. 3,680,074, 7-25-72, Cl. 340-258.00a.
 Lieske, Edgar: *See—*
 Budnowski, Manfred; and Lieske, Edgar, 3,707,527.
 Liess, Richard K.: *See—*
 Black, William J.; Holmstrom, William L.; Liess, Richard K.; and Teasdale, Max J., 3,653,133.
 Campbell, Trevar G.; Larson, Robert V.; Stahl, Sebald K.; Liess, Richard K.; and Rice, Roger A., 3,653,132.
 Liester, Arvin F. Apparatus for concrete wall construction. 3,689,021, 9-5-72, Cl. 249-35.000.
 Lietar, Christian: *See—*
 Odone, Giovanni; and Lietar, Christian, 3,671,127.
 Lietar, Christian, to Paillard S.A. Rangefinder for measuring the distance of an object having a luminous spot. 3,652,159, 3-28-72, Cl. 356-4.
 Lietz, Manfred: *See—*
 Jaecklin, Andre; and Lietz, Manfred, 3,707,321.
 Lieungh, Ellis H.: *See—*
 Killin, King D.; and Lieungh, Ellis H., 3,648,655.
 Lieungh, Ellis Homer: *See—*
 Killin, King Dwight; and Lieungh, Ellis Homer, 3,643,627.
 Lif-O-Gen, Inc.: *See—*
 Stroppe, Gordon N.; and Mills, Justin W., Jr., 3,672,129.
 Life Support Equipment Corporation: *See—*
 Osthagen, Sven M.; and Wise, Henry M., Jr., 3,642,004.
 Life Support, Inc.: *See—*
 Thompson, Tommy Lewis, 3,702,305.
 Life Technology, Inc.: *See—*
 Sepper, Werner, 3,654,599.
 Lifshitz, Joshua, to Sperry Rand Corporation. Method of making printed circuit armature. 3,698,079, 10-17-72, Cl. 29-598.000.
 Lifshits, Viktor Senderovich; Andrianov, Vladimir Rubenovich; Rykalin, Nikolai Nikolaevich; Krasnev, Tibor Ferentsevich; Podola, Nikolai Vasilievich; and Krivonos, Vadim Petrovich. Continuous flash-off resistance butt-welding. 3,681,563, 8-1-72, Cl. 219-97000.
 Lifshits, Viktor Senderovich; Grigoriev, Viktor Ivanovich; Petrov, Georgy Nikolaevich; and Papkov, Oleg Sergeevich. Resistance butt welding machine. 3,684,856, 8-15-72, Cl. 219-97.000.
 Lift Parts Mfg., Inc.: *See—*
 Szymanski, Leonard W.; and Slaski, Joseph A., 3,698,739.
 Lift-Air Company, Inc.: *See—*
 Applegarth, John C.; Carroll, Kevin; and Hyland, Donald D., 3,688,440.
 Lifton, Ronald W. Decor simulation. 3,683,779, 8-15-72, Cl. 95-85.000.
 Liggett & Myers Incorporated: *See—*
 Hall, Floyd V., 3,675,761.
 Kallianos, Andrew G.; Warfield, Albert H.; and Simpson, Melvyn I., 3,704,714.
 Key, Robert L., III; and Christy, Melvin G., 3,678,939.
 Norman, Vello; and Williams, Thomas B., 3,664,352.
 Norman, Vello; Williams, Thomas B.; Kallianos, Andrew G.; and Mold, James D., 3,703,901.
 Pullman, James O.; and Weidlich, William R., 3,696,299.
 Liggett & Myers Incorporated, mesne: *See—*
 Kallianos, Andrew G.; Mold, James D.; and Simpson, Melvyn I., 3,646,201.
 Tripodi, Peter R., 3,695,422.
 Liggett, James J., to Hoerres, William E. Sweetening compositions. 3,684,529, 8-15-72, Cl. 99-141.00a.
 Liggett, Thomas: *See—*
 Cox, Charles D.; and Liggett, Thomas, 3,671,515.
 Ligh, David R. Refuse compacting apparatus. 3,688,686, 9-5-72, Cl. 100-52.000.
 Light, David J., to National Aeronautics and Space Administration. Fixture for supporting articles during vibration tests. 3,670,563, 6-20-72, Cl. 73-71.600.
 Light, John Lloyd, 50% to Hendry, David James. Irrigation hose. 3,632,048, 1-4-72, Cl. 239-547.
 Light, Kenneth K.: *See—*
 Grossman, James Douglas; and Light, Kenneth K., 3,701,801.
 Light, Larry L.: *See—*
 Green, Larry Q.; and Light, Larry L., 3,667,926.
 Light, Max E.: *See—*
 Kotrappa, Payasada; and Light, Max E., 3,698,626.
 Light, Stanley. Knockdown structural toys. 3,640,018, 2-8-72, Cl. 46-29.
 Light, William A.: *See—*
 Fox, Charles J.; and Light, William A., 3,706,554.
 Lightbody, Alexander. Apparatus for and a method of forming coiled tube banks. 3,646,599, 2-29-72, Cl. 72-147.
 Lightbourne, Robert C.: *See—*
 Baetz, Herbert Barclay; and Lightbourne, Robert C., 3,690,828.
 Lightfoot, David Reginald, to Grace, W. R., & Co. Method of bonding employing high frequency alternating magnetic field. 3,657,038, 4-18-72, Cl. 156-106.
 Lightfoot, Marvin E. Convertible lawn sprinkler. 3,643,869, 2-22-72, Cl. 239-289.
 Lightner, Gene E., to Hewlett-Packard Company. Fluid flow meter. 3,680,377, 8-1-72, Cl. 73-204.000.
 Lightner, Max W., to United States Steel Corporation. Apparatus for atomizing molten metal. 3,692,443, 9-19-72, Cl. 425-7.000.

- Lightning Fasteners Limited: *See—*
 Austin, Christopher Frederic; Crowther, Philip Simpson; Warren, David; and Howitt, David, 3,651,666.
 Austin, Christopher Frederic; Crowther, Philip Simpson; Warren, David; and Howitt, David, 3,657,904.
 Lightolier Incorporated: *See—*
 Donato, Anthony C., 3,676,830.
 Lightyears, Inc.: *See—*
 Hassell, Jon M., 3,646,266.
 Ligi, Joseph J.: *See—*
 Keading, Warren W.; and Ligi, Joseph J., 3,637,807.
 Lignes Telegraphiques et Telephoniques: *See—*
 De Meux, Patrick De Laage, 3,670,266.
 Forterre, Gerard E., 3,702,445.
 Marotte, Pierre L., 3,701,864.
 Ligny, Gaston Arthur Francois: *See—*
 Cahn, Jean; Canonne, Edmond Marie; Lejeune, Guy; Ligny, Gaston Arthur Francois; and Modigliani, Dario Claude Fulvio, 3,634,449.
 Liguori, Thomas A., to Modern Mold & Tool Corporation. Propel and repel ball point pen mechanism. 3,679,318, 7-25-72, Cl. 401-110.000.
 Lihl, Franz, to Schaltbau GmbH. Method for manufacture of an electrical contact. 3,650,825, 3-21-72, Cl. 117-217.
 Liisberg, Sven: *See—*
 Frey, Hans-Hasso; and Liisberg, Sven, 3,674,787.
 Lijbrink, Eduard: *See—*
 Piepers, Gijsbrecht G.; Vons, Leonard H.; Van Der Linde, Aart; and Lijbrink, Eduard, 3,646,994.
 Lik, Chan Yuen. Pump. 3,667,875, 6-6-72, Cl. 418-56.
 Likhota, Lidia Semenovna: *See—*
 Vartanian, Guren Petrosovich; Khutoretsky, Garri Mikhailovich; and Likhota, Lidia Semenovna, 3,657,584.
 Likins, Keith L., to Ohio State University, The. Sonic tool apparatus. 3,672,454, 6-27-72, Cl. 175-56.000.
 Likken, Gene B.: *See—*
 Lelugas, Joseph J.; and Likken, Gene B., 3,638,935.
 Likness, David M., to Universal Oil Products Company. Self-cleaning tubular screen. 3,667,615, 6-6-72, Cl. 210-497.100.
 Lilge, Johann; and Reif, Kurt, to Maschinenfabrik Andritz Aktiengesellschaft. Liquid coolant installation for a nuclear reactor. 3,651,866, 3-28-72, Cl. 165-107.
 Lilienbeck, Clemens: *See—*
 Ottmann, Gerhard; and Lilienbeck, Clemens, 3,656,998.
 Lilienkamp, Hugh: *See—*
 Conn, James B.; Delbauve, J. Richard; and Lilienkamp, Hugh, 3,697,886.
 Lilinga, Nicholas: *See—*
 Tepper, Sidney; Tierney, William; and Lilinga, Nicholas, 3,672,082.
 Liljgren, Nils Leo: *See—*
 Nilsson, Lars Olov; Liljgren, Nils Leo; and Victorin, Robert, 3,659,707.
 Liljeholm, Sten, to Steli Konsult. Arrangement for delivering predetermined quantities of liquid and solid material. 3,666,150, 5-30-72, Cl. 222-453.
 Liljekvist, Bernt Soren: *See—*
 Lundstrom, Hans Per Olof; and Liljekvist, Bernt Soren, 3,666,321.
 Liljendahl, Sven Algot Joel, to Aktiebolaget Electrolux. Method of conducting waste liquid by vacuum through long conduits of pneumatic sewage disposal systems. 3,686,693, 8-29-72, Cl. 4-10.000.
 Lill, Arnulf: *See—*
 Egger, Viktor; Lill, Arnulf; and Metzendorf, Werner, 3,695,854.
 Lill, Melvin H.: *See—*
 May, George; and Lill, Melvin H., 3,692,081.
 Lill, Melvin H., to FMC Corporation. Apparatus for mounting disc brake rotors during truing. 3,665,657, 5-30-72, Cl. 51-236.000.
 Lill, Melvin H.; and Graham, Edward P., to FMC Corporation. Optical unit for wheel aligner. 3,689,161, 9-5-72, Cl. 356-155.000.
 Lilland, Larry L.; and Rumbaugh, James T., to Berkley & Company, Inc. Quick-change cartridge spool. 3,693,901, 9-26-72, Cl. 242-84.20r.
 Lilley, Arthur E.: *See—*
 Haroules, George G.; Brown, Wilfred E., III; Ewen, Harold I.; Lilley, Arthur E.; and Kodis, Ralph D., 3,665,467.
 Lilley, Eugene A.; and Jones, Virgil J., to Olin Corporation. Electrical commutator. 3,659,130, 4-25-72, Cl. 310-234.
 Lilley, G. C.; and Kolb, Robert Herrick, to Shell Oil Company. Method and apparatus for determining the volumetric average of a parameter. 3,678,257, 7-18-72, Cl. 235-151.340.
 Lilljefors, Gustaf Lennart, to AGA Aktiebolag. Pneumatic control device. 3,636,994, 1-25-72, Cl. 141-83.
 Lilljefors, Gustaf Lennart, to AGA Aktiebolag. Pressure gauge. 3,683,703, 8-15-72, Cl. 73-403.000.
 Lillkvist, Salomo, to Oy Wilh Schauman AB. Carrying and closing device for bags and sacks. 3,688,973, 9-5-72, Cl. 229-54.00r.
 Lilly, Arnys Clifton, Jr.: *See—*
 Gentry, Elwood M.; and Lilly, Arnys Clifton, Jr., 3,656,474.
 Lilly, Arnys Clifton, Jr.; and Tiller, Calvin O., to Morris, Philip, Incorporated. Solid state battery having a rare earth fluoride electrolyte. 3,657,016, 4-18-72, Cl. 136-83.
 Lilly, Arnys Clifton, Jr.; and Tiller, Calvin O., to Morris, Philip, Incorporated. Oxygen-responsive electrical current supply. 3,698,955, 10-17-72, Cl. 136-83.00r.
 Lilly, Eli, and Company: *See—*
 Allisbaugh, Howard C., 3,653,500.
 Bach, Nicholas J.; and Farkas, Eugene, 3,697,558.
 Beck, James R., 3,681,406.
 Booher, Richard N.; and Pohland, Albert, 3,657,249.
 Bowen, Richard E.; and Kleinschmidt, Walter J., 3,632,748.
 Chakrabarti, Jiban Kumar; and Szina, Stephen Slomo, 3,644,356.
 Chakrabarti, Jiban Kumar, 3,654,301.
 Chauvette, Robert R., 3,632,578.
 Cooper, Robin D. G., 3,647,786.
 Cooper, Robin D. G., 3,647,787.
 Cooper, Robin D. G.; and Fukuda, David S., 3,681,380.
 Cooper, Robin D. G., 3,705,892.
 Davis, William W.; and Ose, Earl E., 3,641,241.
 De Long, Donald C.; and Paget, Charles J., Jr., 3,639,612.
 Debono, Manuel, 3,687,947.
 Dyke, Richard W.; and Sweeney, Martin J., 3,705,946.
 Feren, Conrad J., 3,651,945.
 Foster, Bennie J.; Gutowski, Gerald E.; and Hatfield, Lowell D., 3,668,202.
 Galloway, Reginald B.; and Shumard, Raymond F., 3,676,547.
 Garbrecht, William L., 3,632,850.
 Gerzon, Koert; and Holmes, Richard E., 3,705,894.
 Gutowski, Gerald E., 3,668,201.
 Hamill, Robert L.; and Hoehn, Marvin M., 3,705,238.
 Hargrove, William W., 3,668,196.
 Hayes, Harold B.; and Huff, Gerald L., 3,641,018.
 Jackson, Billy G., 3,671,449.
 Jackson, Billy G., 3,694,437.
 Jordan, Charles E., 3,636,211.
 Kitchell, Barbara S.; and Gerzon, Koert, 3,681,322.
 Kornfeld, Edmund Carl, 3,676,458.
 Krumkalns, Eriks V.; and Taylor, Harold M., 3,655,359.
 Kukulja, Stephan P.; and Morin, Robert B., 3,702,328.
 Lavender, John F., 3,674,862.
 Ludwig, Nelson H., 3,666,865.
 Ludwig, Nelson H.; and White, William A., 3,674,869.
 Lunn, William H. W., 3,649,629.
 Lunn, William H. W., 3,669,969.
 Marshall, Winston S., 3,644,641.
 Marshall, Winston S., 3,649,679.
 Massey, Eddie H.; and Kitchell, Barbara S., 3,652,537.
 Massey, Eddie H., 3,660,376.
 Massey, Eddie H., 3,676,434.
 Mills, Jack, 3,707,549.
 Morin, Robert B.; Spry, Douglas O.; Hauser, Kenneth L.; and Mueller, Richard A., 3,644,502.
 Murphy, Charles F.; Webber, J. Alan; Kaiser, Gary V.; Van Heyningen, Earle M.; Wright, Ian G.; and Cooper, Robin D. G., 3,641,014.
 Murphy, Charles F., 3,705,897.
 Neuss, Norbert, 3,676,438.
 Ose, Earl E., 3,676,548.
 Pitt, Colin G., 3,646,114.
 Pitt, Colin G., 3,676,502.
 Porter, Herschel D., 3,639,602.
 Porter, Herschel D., 3,655,666.
 Porter, Herschel D.; and Taylor, Harold M., 3,659,012.
 Porter, Herschel D., 3,669,986.
 Ross, William James; and Jamieson, William Boffey, 3,658,797.
 Ryan, Charles W., 3,641,021.
 Ryan, Charles W., 3,705,900.
 Soper, Quentin F., 3,632,397.
 Soper, Quentin Francis, 3,647,793.
 Southard, George Lee, 3,645,996.
 Spry, Douglas O., 3,674,775.
 Spry, Douglas O., 3,691,188.
 Szina, Stephen S.; and Lunn, William H. W., 3,668,220.
 Tao, Eddie V. P., 3,665,042.
 Thompson, Robert Q.; Stark, William M.; and Higgins, Calvin E., 3,691,279.
 Tilak, Monobar A., 3,660,420.
 Van Heyningen, Earle M., 3,655,656.
 Wagner, Jack F.; and Veenhuizen, Edward L., 3,636,193.
 Walking, W. Douglas, 3,673,163.
 Webber, J. Alan; and Van Heyningen, Earle M., 3,637,678.
 Webber, J. Alan; and Van Heyningen, Earle M., 3,644,347.
 Webber, J. Alan, 3,674,784.
 White, William A., 3,669,965.
 Whitehead, Calvert W.; and Traverso, John J., 3,668,248.
 Williams, Robert H.; and Hoehn, Marvin M., 3,674,774.
 Wright, Ian G.; and Kaiser, Gary V., 3,660,395.
 Wright, Ian G., 3,660,396.

- Lilly, Herbert J., Jr.: *See—*
Dobler, Christian D.; and Lilly, Herbert J., Jr., 3,677,310.
Dobler, Christian D.; and Lilly, Herbert J., Jr., 3,698,433.
- Lilly Industries, Ltd.: *See—*
Chakrabarti, Jiban Kumar; and Todd, Alec, 3,681,332.
Crank, George, 3,705,903.
Evans, Delme, 3,674,871.
Roast, William George, 3,682,353.
Roffey, Patrick; and Verge, John Pomfret, 3,644,358.
Roffey, Patrick; and Verge, John Pomfret, 3,658,798.
Roffey, Patrick; and Verge, John Pomfret, 3,691,160.
- Lilly, Malcolm Douglas; Kay, Garth; Wilson, Richard John Hugh; and Sharp, Alister Kimball, to National Research Development Corporation. Novel polymeric materials containing triazinyl groups. 3,674,767, 7-4-72, Cl. 260-89.100.
- Lilly, Rodger H.: *See—*
Ellis, Colin R. G.; and Lilly, Rodger H., 3,678,566.
- Lilly, Wallace B. Inflatable safety device. 3,706,462, 12-19-72, Cl. 280-150.0ab.
- Liloia, Gerald J.; May, Louis F., Jr.; Schiff, Norman; Mesek, Frederick K.; Shepherd, Robert C.; and Strickel, William R., to Johnson & Johnson. Lofly and soft nonwoven, through bonded fabric. 3,663,348, 5-16-72, Cl. 161-116.
- Lim, Enghua: *See—*
Herzog, Arno Henry; Caldwell, James F.; Schmidt, John George; and Lim, Enghua, 3,636,618.
Schmidt, John George; and Lim, Enghua, 3,636,617.
- Lim, Teong C.: *See—*
Thompson, Robert B.; Thompson, Donald O.; Kraut, Edgar A.; and Lim, Teong C., 3,699,481.
- Lima, Philip J.: *See—*
Cassie, John V.; Lima, Philip J.; and McCully, Everette R., 3,646,417.
- Limage, Charles R.; Lindahl, Herbert P.; and Tjonneland, Elling, to United States of America, Federal Aviation Administration, mesne. Supersonic air inlet control system. 3,643,676, 2-22-72, Cl. 137-15.2.
- Limb, John O.: *See—*
Haskell, Barin G.; and Limb, John O., 3,632,865.
- Limb, John Ormond; and Mounts, Frank William Colts, to Bell Telephone Laboratories, Incorporated. Nonlinearly sampled differential quantizer for variable length encoding. 3,662,266, 5-9-72, Cl. 325-38.
- Limberg, Allen Le Roy, to RCA Corporation. Sample-and-hold circuit. 3,646,362, 2-29-72, Cl. 307-238.
- Limberg, Allen Le Roy, to RCA Corporation. Electrically controlled attenuation and phase shift circuitry. 3,649,847, 3-14-72, Cl. 307-237.
- Limberg, Allen Le Roy, to RCA Corporation. Electrical circuit providing multiple V_{BE} bias voltages. 3,651,346, 3-21-72, Cl. 307-296.
- Limberg, Allen Le Roy, to RCA Corporation. Signal translating stage providing direct voltage translation independent of supplied operating potential. 3,651,347, 3-21-72, Cl. 307-297.
- Limberg, Allen Le Roy, to RCA Corporation. Synchronous demodulator employing a common-base transistor amplifier. 3,673,505, 6-27-72, Cl. 329-50.000.
- Limberg, Allen Le Roy, to RCA Corporation. Synchronous demodulator employing common base transistor amplifier input and base-emitter clamping action. 3,679,981, 7-25-72, Cl. 329-50.000.
- Limberg, Allen Le Roy, to RCA Corporation. Synchronous demodulator employing transistor base-emitter clamping action. 3,679,982, 7-25-72, Cl. 329-50.000.
- Limberg, Allen Le Roy, to RCA Corporation. FM stereophonic receiver detection apparatus and disabling means. 3,707,603, 12-26-72, Cl. 179-15.0bt.
- Limberg, Allen Leroy; and Steckler, Steven Alan, to RCA Corporation. Protection circuit. 3,641,361, 2-8-72, Cl. 307-202.
- Limberger, Ernst: *See—*
Rosch, Hans Michael; and Limberger, Ernst, 3,694,597.
- Limberger, Jurgen, to Lumoprint Zindler KG, Firma. Presettable counter for copying apparatus. 3,641,322, 2-8-72, Cl. 235-132.
- Limberger, Walter, to Lumoprint Zindler KG. Combined separating and deflecting device for copying materials, more particularly for copying machines. 3,647,208, 3-7-72, Cl. 271-64.
- Limberger, Walter, to Lumoprint Zindler KG. Copying apparatus. 3,672,761, 6-27-72, Cl. 355-3.000.
- Limberger, Walter, to Lumoprint Zindler KG. Copying machine. 3,684,372, 8-15-72, Cl. 355-100.000.
- Limbert, Raymond Walter, to Viatron Computer Systems Corporation. Card punch reader adapter. 3,648,036, 3-7-72, Cl. 235-154.
- Limbert, William F., Jr. Nestable container. 3,647,112, 3-7-72, Cl. 220-97.
- Limbough, Pol Jean, to U.S. Philips Corporation, mesne. Method of manufacturing miniaturized electric circuits. 3,704,163, 11-28-72, Cl. 117-212.000.
- Limiero, Albert David: *See—*
Goldthorp, David Clayton; Limiero, Albert David; and Smith, John Paul, 3,676,608.
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Eng, Joseph W.; and Lin, Stanley C. F., 3,643,623.
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Chang, Hsu; Keefe, George E.; Lin, Yeong S.; and Rosier, Lawrence L., 3,689,902.
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Vollmer, Burghardt; and Lindback, Ulf, 3,637,942.
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Heiss, Frederick H.; and Lindblom, Carl E., 3,670,785.
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 Funke, Robert, 3,685,330.
 Henrici, Helmut, 3,656,540.
 Heyl, Walter, 3,664,128.
 Heyl, Walter, 3,678,804.
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 Klein, Gunter; and Neumann, Johann, 3,651,618.
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 Krusche, Alfred, 3,685,290.
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 Oberpriller, Jakob, 3,633,830.
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 Nolte, Helmut; Lindemann, Paul; and Hahn, Walter, 3,702,792.
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 Granskog, Roland, 3,640,349.
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 Bidell, Frederick W.; Herold, Carl D., Jr.; and Lindholm, James H., 3,706,933.
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 Radscheit, Kurt; Kelkheim, Taunus; Stache, Ulrich; Haede, Werner; Hofheim, Taunus; Fritsch, Werner; Neuenhain, Taunus; and Lindner, Ernst, 3,681,344.
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 Stache, Ulrich; Radscheit, Kurt; Fritsch, Werner; Haede, Werner; and Lindner, Ernst, 3,674,779.
 Lindner, Fritz: *See—*
 Reimann, Hubertus; and Lindner, Fritz, 3,698,301.
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 Minner, Willy; and Lindner, Gerhard, 3,636,455.
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 Stade, Gerhard, 3,669,088.
 Stade, Gerhard, 3,695,119.
 Stahn, Georg, 3,640,024.
 Lindner, Kathe, nee Arnold: *See—*
 Lindner, Kurt; and Eichler, Elfriede, 3,658,712.

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 Lindo, Neil A.: *See—*
 Zinnes, Harold; Shavel, John, Jr.; Lindo, Neil A.; and Di Pasquale, Gene, 3,634,415.
 Zinnes, Harold; Shavel, John, Jr.; and Lindo, Neil A., 3,641,032.
 Zinnes, Harold; Lindo, Neil A.; and Shavel, John, Jr., 3,646,020.
 Zinnes, Harold; Lindo, Neil A.; and Shavel, John, Jr., 3,646,021.
 Lindquist, Claude A., Jr., to Pfizer Inc., Dielectric films, 3,660,328, 5-2-72, Cl. 260-22.00r.
 Lindquist, Claude Alan, Jr.: *See—*
 Hoffman, Mark; and Lindquist, Claude Alan, Jr., 3,655,263.
 Lindquist, Julius A.; and Buese, George J., to Johnson & Johnson, Conformable adhesive sheet, 3,665,918, 5-30-72, Cl. 128-156.
 Lindquist, Per G. E., to Aktiebolaget Thugus Mekaniska Verkstad, Arrangement in operating tables for big animals, 3,633,901, 1-11-72, Cl. 269-323.
 Lindquist, Robert H., to Chevron Research Company, Metals and metal alloys and preparation thereof, 3,655,360, 4-11-72, Cl. 75-5.
 Lindqvist, Karl Sigvard, to Combaitainer S.A., Arrangement in loading pallets supporting walls, 3,677,199, 7-18-72, Cl. 108-56.
 Lindqvist, Lars-Hakan, Life saving implements, 3,676,882, 7-18-72, Cl. 9-14.000.
 Lindqvist, Per-Erik: *See—*
 Gustavson, Lars-Goran; and Lindqvist, Per-Erik, 3,646,776.
 Lindqvist, Rolf Artur Ronald: *See—*
 Ahlberg, Erik Johan Victor; Ekwall, Gosta Bernhard; and Lindqvist, Rolf Artur Ronald, 3,659,657.
 Lindqvist, Stig Gustaf; and Vaher, Ilmar Valfeid, to Telefonaktiebolaget L M Ericsson, Apparatus utilizing a tree network for companding and coding an analog signal in a PMC system, 3,638,124, 1-25-72, Cl. 325-141.
 Lindros, Charles J.: *See—*
 Dittonto, Alexander N.; and Lindros, Charles J., 3,655,125.
 Lindsay, Charles H., to Fire Control Engineering Company, Apparatus for admixing fluids in predetermined proportions, 3,647,002, 3-7-72, Cl. 169-16.
 Lindsay, Douglas J., to Eastman Kodak Company, Means for indicating the length of roll film in a film cartridge for processing purposes, 3,670,638, 6-20-72, Cl. 95-31.0ca.
 Lindsay, Edward R., Jr., to Milton Roy Company, Patient support system, 3,644,950, 2-29-72, Cl. 5-347.
 Lindsay, George F.; Sullivan, Shelby F.; and Whitehouse, Harper John, to United States of America, Navy, Correlators using shift registers, 3,670,151, 6-13-72, Cl. 235-181.000.
 Lindsay, George F.; and Whitehouse, Harper John, to United States of America, Navy, Field-delineated acoustic wave device, 3,675,052, 7-4-72, Cl. 310-8.100.
 Lindsay, James R.: *See—*
 Zimmerman, Robert C.; and Lindsay, James R., 3,663,781.
 Lindsay, John, Wind sock, 3,696,672, 10-10-72, Cl. 73-189.000.
 Lindsay, Kenneth L.: *See—*
 Cragg, Hoyt J.; and Lindsay, Kenneth L., 3,651,114.
 Kobetz, Paul; Lindsay, Kenneth L.; and Cook, Shirl E., 3,691,221.
 Kobetz, Paul; and Lindsay, Kenneth L., 3,696,161.
 Lindsay Manufacturing Co.: *See—*
 Zimmerer, Arthur L.; Zimmerer, Bernard J.; and Zimmerer, Paul B., 3,659,627.
 Lindsay, Richard P.: *See—*
 Hahn, Robert S.; and Lindsay, Richard P., 3,634,976.
 Hahn, Robert S.; and Lindsay, Richard P., 3,694,969.
 Lindsay Specialty Products Limited: *See—*
 Crowhurst, David B.; and Thomas, John E., 3,641,464.
 Nepovim, Zdenek, 3,668,612.
 Nepovim, Zdenek, 3,671,926.
 Pennypacker, Frank C., 3,671,885.
 Pennypacker, Frank Chester, 3,676,744.
 Lindsay, Thomas W., to Minnesota Mining and Manufacturing Company, Web cleaning apparatus, 3,641,605, 2-15-72, Cl. 15-1.5.
 Lindsay, Wardell J.: *See—*
 Johns, Richard J.; Shepard, Richard H.; and Lindsay, Wardell J., 3,659,586.
 Lindsay, Wesley N., to International Telephone and Telegraph Corporation, Vacuum capacitor with solid dielectric, 3,639,816, 2-1-72, Cl. 317-245.
 Lindsey, Alan Sidney; and Hunt, Sydney Edwin, to National Research Development Corporation, Polybenzoxazole amides, esters and thioesters, polybenzthiazole amides, esters and thioesters and preparation thereof, 3,676,399, 7-11-72, Cl. 260-47.0co.
 Lindsey, Hiram E., Jr.: *See—*
 Braddick, Britt O.; Lindsey, Hiram E., Jr.; and McKiernan, Charles J., 3,640,341.
 Lindsey, James M., to Sperry Sun Well Surveying Company, Borehole tool, 3,638,235, 1-25-72, Cl. 346-107.
 Lindsey, James M., Data insertion system, 3,657,694, 4-18-72, Cl. 340-15.5.
 Lindsey, James M., to Sperry Sun Well Surveying Company, Borehole data transmission system, 3,699,510, 10-17-72, Cl. 340-18.ctm.
 Lindsey, James M.; and Stell, Thomas W., to Sperry Sun Well Surveying Company, Rotor tilt, 3,703,832, 11-28-72, Cl. 74-5.450.
 Lindsey, James M., to Sperry Sun Well Surveying Company, Gyro servo control system and structure, 3,704,406, 11-28-72, Cl. 318-648.000.
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 Lindsey, Joseph W.; and Murphy, Larry O., to Bio-Logics, Inc., Respiration assembly and methods, 3,664,337, 5-23-72, Cl. 128-194.000.
 Lindsey, L. E., Power conductor stringing assembly, 3,640,504, 2-8-72, Cl. 254-134.3.
 Lindsey, L. E., Conductor clamp with means for anchoring a conductor stringing assembly thereto, 3,706,436, 12-19-72, Cl. 248-63.000.
 Lindsey, Richard V.: *See—*
 Drinkard, William C., Jr.; and Lindsey, Richard V., 3,676,475.
 Lindsey, Richard V., Jr.: *See—*
 Cramer, Richard D.; and Lindsey, Richard V., Jr., 3,636,122.
 Lindsey, Royce D.: *See—*
 Davis, William H.; Hornung, Louis M.; Lindsey, Royce D.; and Tanner, Howard C., 3,647,041.
 Lindsjo, Olle: *See—*
 Bryk, Petri; Haani, Martti; Honkasalo, Jorma B.; Kinnunen, Jorma; Lindsjo, Olle; Nyholm, Erik; Poijarvi, Jaakko; Rastas, Jussi; and Kangas, Juhani, 3,677,696.
 Lindsley, Carl Robert: *See—*
 McBride, Frank J.; and Lindsley, Carl Robert, 3,701,975.
 Lindstaedt, Horst Karl, to Masson Scott Thrissell Engineering Limited, Apparatus for preparing reels of sheet material for unwinding, 3,695,532, 10-3-72, Cl. 242-55.000.
 Lindstaedt, Horst Karl, to Masson Scott Thrissell Engineering Limited, Means for unwinding reels of sheet material, 3,695,538, 10-3-72, Cl. 242-58.600.
 Lindstaedt, Horst Karl, to Masson Scott Thrissell Engineering Limited, Multiple reel unwind stands, 3,695,539, 10-3-72, Cl. 242-58.600.
 Lindstol, Anders, to Ecodyne Corporation, mesne, Method and apparatus for filtering a liquid, 3,701,423, 10-31-72, Cl. 210-80.000.
 Lindstrom, Alrik Civer, Resealable closure for bottles and other containers, 3,704,819, 12-5-72, Cl. 222-546.
 Lindstrom, Barry E.; and Robb, Donald A., to Wilkerson Corporation, Float valve for air line lubricators, 3,667,493, 6-6-72, Cl. 137-87.
 Lindstrom, Cedric E., to Scandimant Aktiebolag, Method of manufacturing synthetic diamonds, 3,652,220, 3-28-72, Cl. 23-209.1.
 Lindstrom, Eddie G.: *See—*
 Honnen, Lewis R.; Andrews, Harry W.; and Lindstrom, Eddie G., 3,671,511.
 Lindstrom, Gunnar; and Schullstrom, Gunde, to Saab Aktiebolag, Verifiable identification document, 3,636,318, 1-18-72, Cl. 235-61.12.
 Lindstrom, Harold Richard: *See—*
 Skromme, Arnold Burton; Lindstrom, Harold Richard; Henningsen, Etla August; Beldin, Royal Lowell; Sorlie, Donald Thomas; and Eckert, Elmer Richard, 3,667,734.
 Lindstrom, Jean H.: *See—*
 Honnen, Lewis R.; Andrews, Harry W.; and Lindstrom, Eddie G., 3,671,511.
 Lindstrom, John Werner, Shock absorbing device for a boat seat, 3,638,896, 2-1-72, Cl. 248-399.
 Lindstrom, Kjell O. T.: *See—*
 Hertz, Carl Hellmuth; and Lindstrom, Kjell O. T., 3,695,107.
 Lindstrom, Olle B., Pyrolysis of hydrocarbons, 3,704,332, 11-28-72, Cl. 260-679.00r.
 Lindstrom, Oscar H.; and Fischer, Nathan A., to Hormel, Geo. A., & Co., Skinning machine having a reciprocating fat removing knife mechanism thereof, 3,659,639, 5-2-72, Cl. 146-130.
 Lindstrom, Roald E.: *See—*
 Scheiner, Bernard J.; and Lindstrom, Roald E., 3,635,697.

- Scheiner, Bernard J.; Lindstrom, Roald E.; and Henrie, Thomas A., 3,639,222.
- Lindstrom, Roald E.; and Bauer, Donald J., to United States of America, Interior. Process for recovery of copper and other metals from source materials. 3,634,070, 1-11-72, Cl. 75-101.
- Lindstrom, Ronald E.: *See—*
- Scheiner, Bernard J.; Lindstrom, Ronald E.; and Henrie, Thomas A., 3,639,925.
- Lindstrom, Sven-Olof: *See—*
- Weibull, Bengt J. G.; Thorsell, Leif Urban Folke; and Lindstrom, Sven-Olof, 3,697,598.
- Lindtveit, Torleif; Johnsen, Leif; and Haegland, Borge F.; deceased (by Haegland, Marit; legal representative). Methods for joining ends of wires and the like. 3,668,778, 6-13-72, Cl. 29-630.
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- Lindy, Lowell B., to Dow Chemical Company, The. Method of bleaching sulfonate surfactants. 3,677,952, 7-18-72, Cl. 252-94,000.
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- Higgins, Edward Ted, 3,644,966.
- Higgins, Edward Ted, 3,704,488.
- Line, George Harry: *See—*
- Dodd, John Alton, Jr.; and Line, George Harry, 3,674,488.
- Line, Lawrence L.: *See—*
- Butler, Eugene B.; Fak, Ivan A.; and Line, Lawrence L., 3,644,229.
- Linear Machine Company Limited: *See—*
- Graham, William John, 3,688,946.
- Linear Motion Technology, Inc.: *See—*
- Zeidler, Herman Rudolf; and Aurnou, Ronald M., 3,688,410.
- Lineback, Lynn D.: *See—*
- United States of America, National Aeronautics and Space Administration, 3,706,583.
- Lineberg, Birger David. Apparatus for measuring water impurities in oil. 3,695,095, 10-3-72, Cl. 73-61.10r.
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- Line Supply Association of America, The: *See—*
- Rosenfeld, Howard; and Wetzler, Justin J., 3,686,899.
- Linenberg, Amos, to Hydronautics-Israel Ltd. Sampling valve and system for the detection of predetermined compounds in air. 3,675,466, 7-11-72, Cl. 73-23.100.
- Lines, Jerry J., to K & K Manufacturing Inc. Ventilating system for livestock feeders. 3,648,662, 3-14-72, Cl. 119-71.
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- Basin, Genrikh Maxovich; Gorenstein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Yakov Benediktovich, 3,648,471.
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- Ling, Ting H.; and Solomon, Marwick H., to Anaconda Wire and Cable Company. Electric cable. 3,646,248, 2-29-72, Cl. 174-120.
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- Ling, Wilfred C.: *See—*
- McFarland, Otho K.; Illich, George M., Jr.; and Ling, Wilfred C., 3,689,222.
- Linge, Hermann: *See—*
- Nieswandt, Werner; Linge, Hermann; Pirzer, Hans; Hoerauf, Werner; and Hetz, Herbert, 3,639,659.
- Lingens, Paul: *See—*
- Berthmann, Adolf; Lingens, Paul; and Morhenn, Ernst, 3,648,614.
- Linger, Harris K., to General Electric Company. Combination electric griddle and cooktop. 3,632,982, 1-4-72, Cl. 219-447.
- Linger, Harrison K.: *See—*
- Erickson, Clifford E.; and Linger, Harrison K., 3,636,645.
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- Cameli, Nazzareno; Lingi, Paolo; and Valvassori, Alberto, 3,651,009.
- Lingle, Harrison C.: *See—*
- Langas, Arthur; and Lingle, Harrison C., 3,641,656.
- Lingle, Harrison C.; and Langas, Arthur, to Hartco Company. Method of and apparatus for producing uniform lengths of ribbon-connected fastener clips. 3,647,593, 3-7-72, Cl. 156-300.
- Lingnau, Josef: *See—*
- Hohn, Gerhard; Lingnau, Josef; and Rettemeier, Wulf, 3,679,131.
- Lingnau, Josef, to Gestra-KSB Vertiebsgesellschaft mbH & Co. Thermal control element. 3,698,633, 10-17-72, Cl. 236-99,000.
- Linguist, Rolf Artur Ronald: *See—*
- Ahlberg, Erik Johan; Ekwall, Gosta Berhard; and Linguist, Rolf Artur Ronald, 3,684,033.
- Lings, Gerhard; and Hellermann, Eberhard, to Mannesmann-Geisel GmbH & Co. Airport check-in counter with baggage receiving and handling facility. 3,666,073, 5-30-72, Cl. 198-1.
- Lingwood, William: *See—*
- Moskowitz, Seymour; and Lingwood, William, 3,706,508.
- Linhardt, Hans D.: *See—*
- Bryant, Gerald T.; Linhardt, Hans D.; and Nichols, Kenneth E., 3,696,975.
- Linhardt, Helmut: *See—*
- Gerlach, Klaus; Grimm, Wolfgang; and Linhardt, Helmut, 3,644,298.
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- Frederick, Robert E., 3,685,470.
- Groat, Craig R.; and Happold, Manfred R., 3,641,813.
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- Link Industries, Inc.: *See—*
- Watson, Walter E., 3,687,497.
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- Link, Martin, to Johnson & Johnson. Container for flowable contents. 3,690,523, 9-12-72, Cl. 222-538,000.
- Linke, Fritz: *See—*
- Reuter, Martin; Beermann, Claus; and Linke, Fritz, 3,690,941.
- Linke, Gerda: *See—*
- Engelsmann, Dieter; Maas, Dieter; Schroder, Rolf; and Linke, Gerda, 3,667,366.
- Linke, Werner: *See—*
- Rosch, Gunter; Linke, Werner; Smerz, Otto; and Schinzel, Erich, 3,690,947.
- Linke-Hofmann-Busch Waggon-Fahrzeug-Maschinen GmbH: *See—*
- Duba, Erwin; and Fischer, Conrad, 3,672,311.
- Findeklee, Heinz, 3,651,767.
- Linkel, John E.: *See—*
- Bochinski, Julius H.; and Linkel, John E., 3,698,699.
- Linker, Roy E. Windshield wiper assembly. 3,667,083, 6-6-72, Cl. 15-250,42.
- Linkins, Keith: *See—*
- McMaster, Robert C.; Libby, Charles C.; and Linkins, Keith, 3,683,470.
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- Lindelof, Leonard A.; and Linn, Albert L., 3,692,320.
- Linn, Bruce O.: *See—*

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- Weick, Louis F.; and Linne, William F., 3,673,796.
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- Linnebuhr, Karin: *See—*
- Linnebuhr, Eckhard, 3,704,777.
- Linnenbank, Charles D., to Baldt Anchor and Chain Corporation. Chain connecting link. 3,664,122, 5-23-72, Cl. 59-85.
- Linnenbecker, Udo: *See—*
- Renner, Eskhard; and Linnenbecker, Udo, 3,703,849.
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- Chan, Ronald E., 3,643,214.
- Linoli, Gianni; and Mannucci, Enzo Sergio, to Miles Laboratories, Inc. Method for determination of coupling compounds. 3,684,451, 8-15-72, Cl. 23-230,00r.
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- Surbrook, Louis M., 3,685,820.
- Linquist & Vennum, mesne: *See—*
- Braaten, Norman J., 3,696,409.
- Linread Limited: *See—*
- Powsey, Eric, 3,686,914.
- Lins, Albert: *See—*
- Killias, Rudolf, 3,633,223.
- Lins, Stanley J., to Sperry Rand Corporation. Noise protection and rollover lockout for keyboards. 3,660,826, 5-2-72, Cl. 340-173.
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- Linsley, Helen E.: *See—*
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- Linson Instrument Aktiebolag: *See—*
- Ohlin, Lars Erik; and Lofvenmark, Jan Olof, 3,663,823.
- Linstead, Robert Stanley, to King-Seely Thermos Co. Toy vehicle. 3,662,488, 5-16-72, Cl. 46-201,000.
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- Nichols, Duane C.; and Linstromberg, William J., 3,659,430.
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- Linstromberg, William J., to Whirlpool Corporation. Clutch for domestic ice maker with defrost timer drive motor. 3,648,476, 3-14-72, Cl. 62-137.
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- Donoffio, Nicholas M.; and Linton, Richard H., 3,706,891.
- Simone, Roy R. De; and Linton, Richard H., 3,704,384.
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- Linton, Robert W.: *See—*
- Sams, Robert H.; Linton, Robert W.; and Horikawa, Noboru R., 3,679,610.
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- Hurst, Kenneth; and Linz, Charles W., 3,631,555.
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- Linz, Georg, Firma: *See—*
- Linz, Georg; and Sommer, Lothar, 3,678,565.
- Linz, Peter Alois, to Moeller & Neumann GmbH. Drive for a roller bed mounted behind the cross-cut shears in a shearing line for metal plates. 3,664,662, 5-23-72, Cl. 271-51,000.
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- Linzner, Frederick D. Apparatus for simultaneously supporting, cooling and shaping glass sheet and the like. 3,665,730, 5-30-72, Cl. 65-182,000.
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- Nagayama, Masuzo; and Kawana, Terunosuke, 3,658,671.
- Nagayama, Masuzo; and Kawana, Terunosuke, 3,666,797.
- Nagayama, Masuzo; and Okada, Hiroshi, 3,705,192.
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- Tanaka, Ryohei, 3,677,821.
- Yamane, Izumi; Nagayama, Masuzo; and Takai, Makoto, 3,705,139.
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- Groom, William James, 3,660,889.
- Lion Precision Corporation: *See—*
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- Lionetto, Anthony. Protective guard fixture. 3,662,993, 5-16-72, Cl. 256-65.
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- Liotta, Alfonso L. Golf practicing device. 3,697,080, 10-10-72, Cl. 273-186,00r.
- Liotta, Alfonso L. Golf putter including spherical head with mirror reflecting surface. 3,700,244, 10-24-72, Cl. 273-183,00d.
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- Lipe, Jerome G., to Celanese Corporation. Method and apparatus for forming article filled with filament fiberfill. 3,673,036, 6-27-72, Cl. 156-250,000.
- Lipe-Rollway Corporation: *See—*
- Armstrong, Jack W., 3,667,822.
- Mead, Dennis E., 3,650,367.
- Lipha Lyonnaise Industrielle Pharmaceutique: *See—*
- Bayssat, Michel; Fontaine, Louis; and Grand, Marcel, 3,659,014.
- Boschetti, Eugene; Molho, Darius; and Fontaine, Louis, 3,651,091.
- Boschetti, Eugene; Molho, Darius; and Fontaine, Louis, 3,651,223.
- Molho, Darius; Boschetti, Eugene; and Fontaine, Louis, 3,651,089.
- Lipic, Joseph, Pen Co.: *See—*
- Miller, Louis W.; Lipic, Leonard G.; Kestler, Louise E.; and Martz, William M., 3,652,173.
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- Lipinski, Reinhard, to PEBRA GmbH Paul Braun. Heated lock for motorcars. 3,662,149, 5-9-72, Cl. 219-201.000.
- Lipka, David H.: See—
Schiffmann, Robert F.; Roth, Howard; Lipka, David H.; and Goodman, Abraham H., 3,633,490.
Schiffmann, Robert F.; Roth, Howard; Lipka, David H.; and Goodman, Abraham H., 3,679,432.
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Janow, Lester G.; and Lipke, Ronald D., 3,637,957.
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- Lipkins, Morton S. Hollow retroreflectors. 3,663,084, 5-16-72, Cl. 350-102.
- Lipkowski, William J. Manual coupler for writing instruments. 3,666,372, 5-30-72, Cl. 401-8.
- Lipner, Stuart. Method of preparing comminuted meat products. 3,644,128, 2-22-72, Cl. 99-108.
- Liposky, Richard B. Hand operable selector valve. 3,678,959, 7-25-72, Cl. 137-625.110.
- Lipovetsky, Lazar Moiseevich: See—
Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tkach, Khaim Berkovich; and Lipovetsky, Lazar Moiseevich, 3,674,099.
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Chang, David C.; and Lipp, James, 3,636,838.
Cobb, Richard O.; and Lipp, James, 3,633,183.
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Gustafson, Walter R.; McMillen, William H.; and Lippel, Lewis, Jr., 3,680,087.
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Nakazawa, Yoshio; and Lipper, Harold A., 3,640,036.
- Lippert, Henry E. Game of chance. 3,633,915, 1-11-72, Cl. 273-135.
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Reichelt, Bernhard; Lippert, Wolfgang; Zollner, Dieter; and Kegel, Kurt, 3,684,745.
Zollner, Dieter; Koziol, Konrad; Reichelt, Bernhard; and Lippert, Wolfgang, 3,676,371.
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- Lippisch, Josef, to Waagner-Biro Aktiengesellschaft. Heat exchanger structure for steam generators. 3,656,546, 4-18-72, Cl. 165-81.
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Hanson, Richard E.; and Lippitt, Raymond F., 3,669,353.
- Lippman, Alfred E., to Monsanto Company. Preparation of carboxylic acid chlorides. 3,636,102, 1-18-72, Cl. 260-544.
- Lippman, Gerald, to Thermo-Dielectric Machine Co., Inc. Box manufacturing apparatus. 3,643,554, 2-22-72, Cl. 93-36.3.
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Brown, Lewis Judson; Lippy, Joseph Edmund, Jr.; and Payne, Herbert James, 3,632,487.
- Lips, Hans Peter: See—
Kanngiesser, Karl-Werner; and Lips, Hans Peter, 3,707,669.
- LIPS N.V.: See—
Oosterveld, Marinus Willem Cornelis, 3,675,424.
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- Lipscomb, Walter P.: See—
Buresh, Francis M.; Nisenson, Stanley M.; Lipscomb, Walter P.; and Saich, Anthony M., 3,704,191.
- Lipscomb, Willis L. Vehicle bumper assembly. 3,705,742, 12-12-72, Cl. 293-89.000.
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Hirst, Charles M., Jr.; and Lipshield, Eugene C., 3,693,472.
- Lipsie, Paul C., to Allegheny Ludlum Steel Corporation. Method and apparatus for roll pressure bonding. 3,654,042, 4-4-72, Cl. 156-582.
- Lipsky, Aaron H.: See—
Lowell, Edgar L.; and Lipsky, Aaron H., 3,648,388.
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Vagin, Alexei Alexeevich; Yablonsky, Stanislav Valerievich; Voloshin, Petr Stepanovich; Sharov, Nikolai Grigorievich; Shoborin, Viktor Ivanovich; Novakovsky, Vladimir Efimovich; Kolpakov, Grigory Vasilievich; Ivanov, Mark Efremovich; Lindin, Viktor Mikhailovich; and Lipsky, Daniil Yakovlevich, 3,700,364.
- Lipson, Herbert G.; and Spada, Bartholomes J. Glide assembly. 3,633,573, 1-11-72, Cl. 128-83.5.
- Lipstein, Norman J.: See—
Renner, Charles F.; and Lipstein, Norman J., 3,648,086.
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Prange, Arthur J., Jr.; Wilson, Ian C.; and Lipton, Morris A., 3,689,669.
- Lipton, Thomas J., Inc.: See—
Gurkin, Martin; Sanderson, Gary Warner; and Graham, Harold Nathan, 3,666,484.
Gurkin, Martin; Sanderson, Gary Warner; and Studer, Victor Vernon, 3,669,680.
- Liquid Carbonic Corporation: See—
Glynn, Emmett P.; and Hsu, Howard L., 3,695,056.
- Liquid Carleonic Canadian Corporation, Limited: See—
Chapman, Philip J., 3,694,259.
- Liquid Crystal Industries, Inc.: See—
Sharpless, Edward N.; and Davis, Frederick, 3,647,279.
- Liquid Nitrogen Processing Corporation: See—
Hall, Norman T., 3,702,356.
Taylor, Ronald B.; and Boardman, Kerin G., 3,682,859.
- Liquidonics Inc.: See—
Lissau, Frederic, 3,643,510.
- Liquitrol Systems, Inc.: See—
Gray, John; and Anderson, Gene W., 3,639,081.
- Liquori, Stephen A. Modular audio-visual control system. 3,688,262, 8-29-72, Cl. 340-147.00r.
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Freitag, Arthur H.; and Lira, Emil P., 3,661,549.
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Ehlers, Klaus-Peter; Harnisch, Heinz; and Lischka, Siegfried, 3,637,346.
- Lisitano, Giuseppe. Radio-frequency plasma generator. 3,663,858, 5-16-72, Cl. 315-39.
- Lisk, G. W., Company, Inc.: See—
Thompson, Richard, 3,633,139.
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- Liska, Vladimir D. Precast panel building structure and method of erecting the same. 3,638,371, 2-1-72, Cl. 52-91.
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Swensen, Eugene L.; and Gibson, Franklin E., 3,696,578.
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Pool, James Leland, 3,681,840.
- Lisochkin, Grigory Fedorovich: See—
Petrov, Gennady Nikolaevich; Lisochkin, Grigory Fedorovich; Shmagin, Valentin Parmenovich; and Shibanova, Olga Mikhailovna, 3,664,989.
- Liss, Raymond L.: See—
Haynes, Richard T.; Langguth, Robert P.; and Liss, Raymond L., 3,634,267.
- Liss S.A.: See—
Blosch, Walter, 3,677,793.
- Liss, Thomas P.: See—
Potts, John T.; Lange, Lawrence H.; and Liss, Thomas P., 3,647,066.
- Lissakers, Erik Axel: See—
Callender, Jack E.; Halbedel, Don Edward; Bagwell, Benjamin J.; Horning, James Leroy; Lissakers, Erik Axel; Long, Joseph Harold; and Schweitzer, Cameron C., 3,702,381.

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Chassang, Pierre Robert, 3,690,444.
- Lissner, Oskar: See—
Hoffmann, Herwig; Lissner, Oskar; Merkel, Karl; and Scholz, Heinrich, 3,658,728.
- List, Hans: See—
Fachbach, Heinz; and Thien, Gerhard, 3,684,053.
Harnoncourt, Karl, 3,638,109.
Harnoncourt, Karl, 3,639,829.
Harnoncourt, Karl, 3,639,830.
Scheiterlein, Andreas, 3,687,231.
Schreiber, Erich; Freyn, Fritz; and Noraberg, John, 3,703,178.
Thien, Gerhard; and Fachbach, Heinz, 3,693,602.
Thien, Gerhard; and Fachbach, Heinz, 3,695,386.
- List, Hansjorg: See—
Flesch, Friedrich; and List, Hansjorg, 3,662,644.
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List, Herbert A., 3,674,081.
- List, William F.: See—
United States of America, National Aeronautics and Space Administration, 3,700,961.
- List, William F.; and Anders, Roland A., to Westinghouse Electric Corporation. Signal variation enhancement system. 3,653,014, 3-28-72, Cl. 340-203.
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- Listl, Carl A.: See—
Stempler, Samuel; Listl, Carl A.; and Baron, Leonard, 3,636,364.
- Listner, Gregory Julius, to Johnson & Johnson. Fire retardant polyolefins. 3,650,300, 3-21-72, Cl. 139-420.
- Liston, Balmer Scott, to Diamond Shamrock Corporation. Aerial camera housing for high wing aircraft. 3,689,012, 9-5-72, Cl. 244-118.000.
- Liston, Carol Ann: See—
Bletcher, James H.; and Rauh, Jack K., 3,684,190.
- Liston, James H.: See—
Bletcher, James H.; and Rauh, Jack K., 3,684,190.
- Liston, Marcia: See—
Bletcher, James H.; and Rauh, Jack K., 3,684,190.
Bletcher, James H.; and Rauh, Jack K., 3,684,190.
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- Litchult, Theodore F.: See—
Mancuso, John J.; Litchult, Theodore F.; and Dolezal, Foods M., 3,653,911.
- Litco Enterprises, Inc.: See—
Ogle, David W., 3,648,837.
- Litewate Transport Equipment Corporation: See—
Reeves, John F., 3,704,970.
- Lithen, Eric E.: See—
Budris, Allan R.; McGowan, Frank J.; Evans, Lewis M.; Wayne, Theodore J.; Lithen, Eric E.; and Darcy, Charles B., 3,646,901.
- Lithium Corporation: See—
Morrison, Robert C.; and Kamienski, Conrad W., 3,694,516.
Screttas, Constantinos G., 3,639,380.
- Lithium Corporation of America: See—
Honeycutt, Sammy C., 3,652,696.
Kamienski, Conrad W.; and Eastham, Jerome F., 3,646,231.
Kamienski, Conrad W.; and Merkley, Joseph H., 3,691,241.
McElroy, Bobby Joe; and Merkley, Joseph Herbert, 3,678,121.
Morrison, Robert C.; and Kamienski, Conrad W., 3,668,263.
Orazem, Gerald J.; Martin, Kenneth R.; Dellinger, Matthew H.; and Leonhardt, William S., 3,642,648.
- Lithoplate, Inc.: See—
Thomas, Daniel C., 3,652,272.
Thomas, Daniel C., 3,655,625.
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- Litman, Charles; and Lehna, Earl N. Universally adjustable and focusable alarm apparatus and electric circuitry therefor. 3,653,021, 3-28-72, Cl. 340-258.
- Litman, Marvin W.: See—
Talge, Henry J.; McNair, Samuel L.; and Litman, Marvin W., 3,654,428.
- Litschi, Gerold: See—
Miller, Wesley W.; Litschi, Gerold; and Bixler, Warren A., 3,635,711.
- Litt, Arnold D.; and Engelhart, John E., to Esso Research and Engineering Company. Tetrahydrobenzothiazolyl derivatives and their use as herbicides. 3,696,101, 10-3-72, Cl. 260-248.0ns.
- Litt, Morton H.: See—
Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton H., 3,647,887.
Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton H., 3,647,889.
Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton H., 3,655,677.
Oxenrider, Bryce C.; Litt, Morton H.; and Slavik, Ferdinand M., 3,639,464.
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Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton Herbert, 3,697,564.
Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton Herbert, 3,706,773.
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- Littau, Eugene G. Articulated frame for double row agricultural harvester. 3,685,264, 8-22-72, Cl. 56-209.000.
- Littelfuse, Inc.: See—
Reed, James M., 3,654,824.
- Littell, F. J., Machine Company: See—
Wiig, Chester M., 3,638,846.
Wiig, Chester M., 3,643,487.
Wiig, Chester M., 3,647,127.
Wiig, Chester M., 3,665,794.
Wiig, Chester M., 3,673,418.
- Littell, Harry E., Jr.: See—
Shorr, Norman; and Littell, Harry E., Jr., 3,657,057.
- Littell, Harry E., Jr., to PPG Industries, Inc. Integral transparent safety glass armor unit. 3,671,370, 6-20-72, Cl. 161-43.000.
- Littell, Ruddy: See—
Poletto, John Frank; Allen, George Rodger, Jr.; Littell, Ruddy; and Weiss, Martin Joseph, 3,686,213.
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- Little, Andrew Wallace: See—
Heasman, David Michael; and Little, Andrew Wallace, 3,707,123.
- Little, Arthur D., Inc.: See—
Ashman, Leland E.; and Menashi, Wilson P., 3,701,628.
Bovarnick, Bennett; Eberts, Robert E.; and Nadkarni, Ravindra, 3,701,739.
- Brenneman, Richard S.; Clancy, John J.; Macleish, William T.; and Wells, Robert C., 3,637,431.
- Bullock, Francis J., 3,656,906.
- Castonguay, Roger A.; Hanley, Bernard C.; Mallahan, Francis J.; and Wenckus, Joseph F., 3,639,718.

- Drake, Elisabeth M.; and Gifford, William E., 3,686,828.
 Flood, Harold W.; Hall, George H.; and Meissner, Herman P., 3,652,427.
 Haggerty, John S.; and Wenckus, Joseph F., 3,704,093.
 Huska, Paul A.; Meissner, Herman P.; and Lamb, Thomas J., 3,647,373.
 Johnson, Dennis E.; Woodland, Lawrence R.; Kensler, Charles J.; and Himmelfarb, Philip, 3,647,632.
 Milgrom, Jack, 3,674,486.
 Pars, Harry G.; and Granchelli, Felix E., 3,654,312.
 Pars, Harry G.; and Granchelli, Felix E., 3,676,462.
 Razdan, Raj K.; Granchelli, Felix E.; and Pars, Harry G., 3,639,426.
 Razdan, Raj K.; Granchelli, Felix E.; and Pars, Harry G., 3,639,427.
 Razdan, Raj K.; and Pars, Harry G., 3,649,650.
 Stone, Richard S.; Lapson, Lawrence B.; and Little, Arthur D., Inc., 3,688,584.
 Stone, Richard S., 3,704,626.
 Wenckus, Joseph F., 3,697,228.
 Little, Arthur D., Inc., *mesne*: *See*—
 Papanastassiou, Zinon B.; and Neumeyer, John L., 3,674,809.
 Papanastassiou, Zinon B.; and Neumeyer, John L., 3,691,194.
 Pars, Harry G.; Granchelli, Felix E.; and Razdan, Raj K., 3,635,993.
 Razdan, Raj K.; Thompson, William R.; Granchelli, Felix E.; and Pars, Harry G., 3,661,919.
 Razdan, Raj K.; and Johnson, Fatima N., 3,705,161.
 Little, Carl H., to Weber Knapp Company. Drawer front construction. 3,666,341, 5-30-72, Cl. 312-330.
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 Little, David W., to General Electric Company. Static network protective relay. 3,697,811, 10-10-72, Cl. 317-27.00r.
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 Little, Edwin D.: *See*—
 Cheema, Zafarullah K.; Apice, Pawquale J.; and Little, Edwin D., 3,692,845.
 Little, Edwin D., to Allied Chemical Corporation. Esters of tris (polyalkyleneoxy) isocyanurates. 3,637,557, 1-25-72, Cl. 260-248.
 Little, Edwin D.; and Hirsch, Clarence A., to Allied Chemical Corporation. N-(chlorophenoxyacetyl) ethylene urea herbicides. 3,639,115, 2-1-72, Cl. 71-92.
 Little, Edwin D.; and Cheema, Zafarullah K., to Allied Chemical Corporation. Catalytic hydrogenation of alpha methyl styrene. 3,646,235, 2-29-72, Cl. 260-667.
 Little, Edwin D., to Allied Chemical Corporation. Pyrolysis of tris (2-carboxyethyl)-isocyanurate. 3,697,584, 10-10-72, Cl. 260-486.
 Little, Eric Cooper: *See*—
 Stacey, Frank Donald; Rynn, John Munro William; and Little, Eric Cooper, 3,698,094.
 Little, Ernest L., Jr.; and Wolf, Jack D., to Du Pont de Nemours, E. I., and Company. Process for making ferromagnetic metal powders. 3,663,318, 5-16-72, Cl. 148-105.
 Little, Ernest Lewis, Jr.: *See*—
 Jolley, John Eric; and Little, Ernest Lewis, Jr., 3,661,556.
 Little, Ernest Lewis, Jr., to Du Pont de Nemours, E. I., and Company. Submicron ferromagnetic alloy particles containing cobalt, boron, and zinc. 3,672,867, 6-27-72, Cl. 75-5aa.
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 Little, John C., to GTE Sylvania, Incorporated. Fluid analyzer apparatus. 3,677,652, 7-18-72, Cl. 356-183.000.
 Little, John W.; and Cebula, Thaddeus J., to Sears, Roebuck and Co. Combination jacket and hood. 3,698,014, 10-17-72, Cl. 2-84.000.
 Little, Joseph P.; and Clouse, Jerry A., to Caterpillar Tractor Company. Fuel priming pump. 3,669,576, 6-13-72, Cl. 417-571.000.
 Little, Little J.; and Hunter, Joe S., to United States of America, Army. Compensated output solid state differential accelerometer. 3,646,818, 3-7-72, Cl. 73-517.
 Little, Miller, Giant Co., Inc.: *See*—
 Bowell, James P., 3,691,996.
 Little, Paul A.: *See*—
 Lyon, Lloyd B.; and Little, Paul A., 3,681,056.
 Little Paul A.; and Lyon, Lloyd B., to American Refining Limited. Copper recovery process. 3,681,055, 8-1-72, Cl. 75-108.000.
 Little, Sheldon G., to General Motors Corporation. Headlamp assembly. 3,643,087, 2-15-72, Cl. 240-41.6.
 Little, Vincent C.: *See*—
 Berlin, Aaron S.; Little, Vincent C.; and Leadore, Toney, 3,690,258.
 Berlin, Aaron S.; and Little, Vincent C., 3,705,551.
 Little, William E., to Case, J. I., Company. Hydraulic cylinder. 3,685,398, 8-22-72, Cl. 92-165.000.
 Little, William S., Jr., to Xerox Corporation. Interferometric scanning apparatus and method. 3,650,604, 3-21-72, Cl. 350-163.
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 Little, William S., Jr.; and Townsend, Robert H., to Xerox Corporation. Liquid applicator. 3,703,459, 11-21-72, Cl. 204-300.
 Little, William T.: *See*—
 Labelle, Harold E., Jr.; and Little, William T., 3,701,636.
 Littlechild, James: *See*—
 Gillies, George Marshall; and Littlechild, James, 3,698,697.
 Littlefield, David H.: *See*—
 Olevitch, Albert; and Littlefield, David H., 3,654,057.
 Littlefield, John C. Trailer loading tester and hitch. 3,695,213, 10-3-72, Cl. 116-28.000.
 Littlefuse, Inc.: *See*—
 Brown, William L., 3,659,252.
 Littlejohn, Duane P., to Varian Associates. Method for detecting trace quantities of an organic drug material in a living animal. 3,649,199, 3-14-72, Cl. 23-230.
 Littlejohn, Frederick G. Automatic safety feed system for liquids. 3,695,485, 10-3-72, Cl. 222-68.000.
 Littlejohn, Sidney R., & Company Limited: *See*—
 Keeble, John; and Morgan, Edward Ieian, 3,666,366.
 Littlepage, Gertrude S. Wood coating composition comprising cholesterol, glyceride oil or squalene and a liquid fatty acid. 3,674,524, 7-4-72, Cl. 106-243.000.
 Littleton, Arnold B., to Gay Toys, Inc. Baseball helmet. 3,696,440, 10-10-72, Cl. 2-3.00a.
 Littleton, Arnold B., to Gay Toys, Inc. Racing helmet. 3,696,441, 10-10-72, Cl. 2-3.00a.
 Littman, Fred E., to McDonnell Douglas Corporation. Modified cellulose ester semi-permeable membrane. 3,642,773, 2-15-72, Cl. 260-229.
 Littmann, David, to Minnesota Mining and Manufacturing Company. Monitoring devices. 3,633,703, 1-11-72, Cl. 181-24.
 Littmann, Joseph C., to Dura Corporation. Motor drive assembly for window regulators. 3,635,100, 1-18-72, Cl. 74-411.
 Litton Business Systems, Inc.: *See*—
 Bartok, Stephen; Kamenir, Melvin; and Begoss, Andrew J., 3,673,350.
 Benson, William G., 3,674,943.
 Greenwood, David L., 3,679,878.
 Greskovics, Paul, 3,698,628.
 Henderson, John Franklin, 3,688,261.
 Kamenir, Melvin, 3,668,333.
 Kamenir, Melvin; and Burridge, Robert E., 3,678,218.
 King, John H.; and Larson, Russell W., 3,683,156.
 Miller, William L., 3,631,958.
 Preston, Mark, 3,652,816.
 Schmitt, Fred A., 3,704,847.
 Wyke, Edward R., 3,640,221.
 Litton Industrial Systems, Inc.: *See*—
 Mayer, Gerald C.; Vaka, Gregory A.; Zuckermann, Raymond S.; and Jarman, Alonzo B., 3,701,414.
 Litton Industries, Inc.: *See*—
 McIntosh, Michael D., 3,691,357.
 Schoonover, Stanley C.; and Luckenbach, Lester R., 3,694,970.
 Litton Medical Products, Inc.: *See*—
 Carey, Lewis S.; and Mansour, George L., 3,702,935.
 Vandervelden, Cornelius Keith, 3,644,735.
 Vandervelden, Cornelius Keith, 3,676,683.
 Litton Precision Products, Inc.: *See*—
 Javes, Wallace R.; and Cassibo, Vernon E., 3,654,417.
 Mack, Walter, 3,696,318.
 McAdams, Hugh P., Jr., 3,641,532.
 Walker, Ralph E., 3,636,728.
 Litton Systems, Inc.: *See*—
 Anderson, Harold C., 3,691,459.
 Anderson, Harold C.; and Graff, David F., 3,697,804.
 Classon, Edwin O., 3,646,504.
 Conant, Theodore A., Jr., 3,681,764.
 Curtis, Daniel L., 3,650,269.
 Cushman, Glenn F.; Prasad, Brijeshwari; and Wisleder, Robert W., 3,641,563.
 Erdley, Harold F.; and Wyse, Stanley F., 3,678,764.
 Fuller, Melvin L., 3,701,117.
 George, Nicholas; Thomasson, James T.; and Spindel, Abraham, 3,689,772.
 Holm, Robert Leander; and Ashford, John Wesley, 3,679,929.
 Hulle, Robert M.; Steward, Jerry L.; and Borman, Merle D., 3,693,024.
 Kaye, George W.; and Shonnard, John R., 3,673,593.

- Leavitt, Clyde M.; Johnson, Walter C.; and Hall, Con C., IV, 3,670,682.
 Lehrer, Alexander, 3,654,869.
 Mac Knight, Merritt L., 3,693,174.
 Mark, John G.; and Tickle, Andrew C., 3,636,530.
 Mee, Thomas Francis, 3,656,162.
 Powers, Allen E.; and Segal, Robert, 3,660,841.
 Reimann, William George, 3,700,443.
 Rose, Marion S., 3,678,409.
 Sanchez, Albert A., 3,638,211.
 Scaminaci, James, Jr.; and Knowles, Robert G., 3,641,666.
 Scaminaci, James, Jr.; and Knowles, Robert G., 3,680,193.
 Sensney, Cleatus R., 3,633,285.
 Sevc, John M.; and Pierce, Howard E., Jr., 3,664,016.
 Tickle, Andrew C., 3,660,827.
 von Gal, George E., Jr.; Phillips, Mabry S., Jr.; and Hutchinson, Lawrence A., 3,682,290.
 Littrell, Luther W., to Harris-Intertype Corporation. Sheet-gripper post formed by EDM. 3,671,706, 6-20-72, Cl. 219-69.00m.
 Litvak Meat Company Inc.: *See*—
 Sheldon, Richard, 3,676,153.
 Litvin, Leonid Vladimirovich: *See*—
 Pentegov, Igor Vladimirovich; Semergeev, Stepan Ivanovich; Sheikovskiy, Dmitry Alexeevich; Mescheryak, Sergei Nikolaevich; Stenkovskiy, Evgeny Petrovich; Litvin, Leonid Vladimirovich; and Shelest, Nikolai Antonovich, 3,663,909.
 Litvin, Noel, 50% to Scherz, Abraham Isaac. Key controlled locks. 3,640,107, 2-8-72, Cl. 70-129.
 Litvinoff, James R.; and Evans, David F., to American Hospital Supply Corporation. Counterbalancing tabletop construction. 3,698,327, 10-17-72, Cl. 108-2.000.
 Litwin, Theodore J.: *See*—
 Festner, Theodor; Litwin, Theodore J.; and Preuss, Hans W., 3,702,796.
 Litz, Jack. Nail placing implement. 3,682,213, 8-8-72, Cl. 145-46.000.
 Litz, John E., to Continental Ore Corporation. Recovery of rhenium and molybdenum values from solution. 3,681,016, 8-1-72, Cl. 23-15.00w.
 Litzell, John E.: *See*—
 Waner, Donald W.; Litzell, John E.; and Olsen, Roger F., 3,640,155.
 Litzenburger, Toni: *See*—
 Reulecke, Wilhelm; Litzenburger, Toni; and Winter, Otto, 3,650,691.
 Litzler, Alfred: *See*—
 Back, Gerhard; Abel, Heinz; Buehler, Arthur; and Litzler, Alfred, 3,692,462.
 Back, Gerhard; Abel, Heinz; Buehler, Arthur; and Litzler, Alfred, 3,692,463.
 Bischof, Josef; Litzler, Alfred; Hertig, Jean; and Milicevic, Branimir, 3,684,431.
 Defago, Raymond; Litzler, Alfred; Hertig, Jean; Angliker, Hans-Joerg; and Licchiti, Hans Wilhelm, 3,632,291.
 Milicevic, Branimir; and Litzler, Alfred, 3,685,955.
 Litzler, Alfred; Ramanathan, Visvanathan; Hegar, Gert; Koller, Eugen Johann; and Milicevic, Branimir, to Ciba Limited. Process for continuous dyeing polyacrylonitrile textile material in a hydrophobic solvent dyebath. 3,663,161, 5-16-72, Cl. 8-174.
 Liu, Chong-Tan: *See*—
 Campbell, Donald H.; and Liu, Chong-Tan, 3,681,209.
 Liu, Gordon Y. T.: *See*—
 Cochran, Rex W.; Helfrich, George F.; Hoblit, Louis D.; and Liu, Gordon Y. T., 3,632,799.
 Strange, Carl P.; and Liu, Gordon Y. T., 3,641,211.
 Strange, Carl P.; and Liu, Gordon Y. T., 3,649,441.
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 Liu, Jui-Chang; and Chan, Teng, to Chang, Lin-Huey and Hung, Ya-Ya. Paper match book assembly. 3,672,491, 6-27-72, Cl. 206-29.000.
 Liu, Robert Chung-Huan: *See*—
 Hughes, John Lawrence; and Liu, Robert Chung-Huan, 3,681,459.
 Liu, Shing-Gong, to United States of America, Atomic Energy Commission, *mesne*. Self-pulsed microwave oscillator. 3,665,339, 5-23-72, Cl. 331-107.
 Liu, Tung; and Stern, David R., to Occidental Petroleum Corporation. Process for the treatment of slimes and waste solids. 3,680,698, 8-1-72, Cl. 210-46.000.
 Liu, Wen Chih, to Pfizer Inc. Active material of Entada phaseoloides. 3,641,243, 2-8-72, Cl. 424-195.
 Liuzzo, Giuseppe: *See*—
 Barba, Diego; D'Agostino, Candido; and Liuzzo, Giuseppe, 3,684,661.
 Livak, John E., to Dow Chemical Company, The. 3-[(Alkylthio)methyl]-1,2,3-benzotriazin-4(3H)-ones. 3,652,560, 3-28-72, Cl. 260-248.
 Livermont, Lawrence H.: *See*—
 Duncan, William E.; Kau, Harry L. F.; and Livermont, Lawrence H., 3,636,746.
 Livermore Data Systems, Inc.: *See*—
 Marguth, Gilbert R., Jr., 3,684,832.
 Livermore, Frederick C.; and Neathway, Graham Albert, to Northern Electric Company Limited. Thin-film resistor anodization. 3,674,659, 7-4-72, Cl. 204-56.00r.
 Livermore, Kenneth W.: *See*—
 Fletcher, Robert B.; and Livermore, Kenneth W., 3,661,776.
 Livesey, Richard Dennis, to Morse, Robert, Corporation, Limited. Electronic controls for alphanumeric printer. 3,701,991, 10-31-72, Cl. 346-9.000.
 Livezey, John P.; and Rosser, Daniel B., to General Electric Company. Unitary high power semiconductor subassembly suitable for mounting on a separable heat sink. 3,651,383, 3-21-72, Cl. 317-234.
 Livezey, John P.; and Rosser, Daniel B., to General Electric Company. Flexible resilient member for applying a clamping force to thyristor units. 3,686,541, 8-22-72, Cl. 317-234.00r.
 Livezey, William G., to General Motors Corporation. Friction plate and mating member. 3,680,675, 8-1-72, Cl. 192-107.00r.
 Livingood, Harry Harlan, to Builders Sand Company. Method and apparatus for testing fine aggregate samples. 3,690,183, 9-12-72, Cl. 73-432.0ps.
 Livingood, James S., to Drewry Photocolor Corporation. Photographic printing apparatus having variable length print paper. 3,689,149, 9-5-72, Cl. 355-46.000.
 Livingston, Douglas J., to Harowe Servo Controls Inc. Single drag cup motor generator. 3,641,376, 2-8-72, Cl. 310-113.
 Livingston, Jimmy Y., to Catalysts and Chemicals Inc. Purification of process gas streams by hydrogenation. 3,679,763, 7-25-72, Cl. 260-677.00h.
 Livingston, Richard D., to Amerock Corporation. Drawer slide assembly for self-closing drawer. 3,697,140, 10-10-72, Cl. 308-3.800.
 Livingston, Richard W.; and Michaels, George L. Automatic chemical feeder apparatus. 3,672,391, 6-27-72, Cl. 137-240.000.
 Livingston, Russell G. Spark plug shielding. 3,697,796, 10-10-72, Cl. 313-134.000.
 Livingston, William H. Neutralization of the systemic toxic principle in oak by feeding iron compounds. 3,694,549, 9-26-72, Cl. 424-147.000.
 Livingston, William L., to Factory Mutual Research Corporation. Method of stopping flow in a pipeline. 3,631,870, 1-4-72, Cl. 137-15.
 Livingston, William L., to Factory Mutual Research Corporation. Fixed fire extinguishing system with additive injection apparatus. 3,642,072, 2-15-72, Cl. 169-15.
 Livingston, William L., to Factory Mutual Research Corporation. Dynamic shutoff valve. 3,643,912, 2-22-72, Cl. 251-5.
 Livingston, William L., to Factory Mutual Research Corporation. Fire control system. 3,645,337, 2-29-72, Cl. 169-14.
 Livingston, William L., to Factory Mutual Research Corporation. Fixed fire extinguishing system. 3,645,338, 2-29-72, Cl. 169-16.
 Livingston, William L., to Factory Mutual Research Corporation. Combatting fire with ablative water. 3,647,001, 3-7-72, Cl. 169-1.
 Livingston, William L.; and Tine, Sebastian David, to Factory Mutual Research Corporation. Fire-responsive sprinkler head. 3,651,869, 3-28-72, Cl. 169-38.
 Livingston, William L. Fire protection system. 3,653,444, 4-4-72, Cl. 169-5.
 Livingston, William L., to Factory Mutual Research Corporation. Phase change method. 3,662,835, 5-16-72, Cl. 169-1.
 Livingston, William L., to Factory Mutual Research Corporation. Fluid flow control device. 3,666,015, 5-30-72, Cl. 169-5.
 Livingston, William L., to Factory Mutual Research Corporation. Slurry additive for ablative water fire extinguishing systems. 3,666,707, 5-30-72, Cl. 260-33.2.
 Livingston, William L., to Factory Mutual Research Corporation. Method of fighting a fire. 3,669,191, 6-13-72, Cl. 169-1.00a.
 Livingston, William L., to Factory Mutual Research Corporation. Snap-off tab nozzle. 3,675,854, 7-11-72, Cl. 239-490.000.
 Livingston, William L., to Factory Mutual Research Corporation. Fire protection system utilizing sprinkler heads with a pressure floor. 3,682,251, 8-8-72, Cl. 169-37.000.
 Livingston, William L., to Factory Mutual Research Corporation. Adaptive sprinkler head. 3,684,025, 8-15-72, Cl. 169-37.
 Livingston, William L. Slurry for ablative water systems comprising a cross-linked polymer gelling agent and a time delay carrier. 3,684,707, 8-15-72, Cl. 252-2.000.
 Livingston, William L., to Factory Mutual Research Corporation. Discharge head for a fixed fire-extinguishing system. 3,685,588, 8-22-72, Cl. 169-37.000.
 Livingston, William L., to Factory Mutual Research Corporation. Method and apparatus for fighting fire. 3,698,481, 10-17-72, Cl. 169-16.000.
 Livingston, William L., to Factory Mutual Research Corporation. Fire protection system utilizing high-capacity direct discharge nozzles. 3,698,482, 10-17-72, Cl. 169-16.000.

Livingston, William L.; and Munson, Carl Marshall, to Factory Mutual Research Corporation. Fixed fire extinguishing system using delayed additive injection. 3,702,158, 11-7-72, Cl. 169-15.000.

Livingston, William L., to Factory Mutual Research Corporation. Fire protection system utilizing direct discharge nozzles and fill-in sprinkler heads. 3,702,159, 11-7-72, Cl. 169-5.000.

Livingston, William L., to Factory Mutual Research Corporation. Pressure responsive fluid nozzle. 3,655,136, 4-11-72, Cl. 239-452.

Livraghi, Giovanni: *See—*

Calcagno, Benedetto; Colombo, Paolo; and Livraghi, Giovanni, 3,707,530.

Livshits, Lev Grigorievich: *See—*

Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.

Livshitz, Stanley L.; Engelhardt, Alvin; and Adler, Stanford L., to Technicon Instruments Corporation. Blood sample tray apparatus. 3,679,129, 7-25-72, Cl. 233-26.000.

Livshitz, Stanley L.; and Mayo, Robert Alan, to Technicon Instruments Corporation. Self-balancing centrifuge method and apparatus. 3,692,236, 9-19-72, Cl. 233-26.000.

Lizenby, James R.: *See—*

Rozmus, Walter J., 3,680,212.

Lizotte, Robert H.: *See—*

Robillard, Edward G.; Lizotte, Robert H.; and Uhtenwoldt, Herbert R., 3,634,979.

Ljung, Bo Hans Gunnar, to AGA Aktiebolag. Gyro arrangement. 3,691,852, 9-19-72, Cl. 74-5.000.

Ljung, Bo Hans Gunnar, to AGA Aktiebolag. Failure indicating arrangements for gyroscopes. 3,696,363, 10-3-72, Cl. 340-248.00b.

Ljung, Per-Henrik. Machine for preparing mashed potatoes. 3,638,557, 2-1-72, Cl. 99-348.

Ljungberg, Sten Herman; and Sternhoff, Lennart B. T., to Nitro Nobel AB. Apparatus for kneading doughy explosives. 3,656,716, 4-18-72, Cl. 259-4.

Ljungkull, Gunnar R., to Minnesota Mining and Manufacturing Company. Programmed traffic signal and method of using. 3,639,899, 2-1-72, Cl. 340-110.

Ljungkull, Gunnar R.; and Johnson, Robert H., to Minnesota Mining and Manufacturing Company. Directional signal having refractive indicant areas. 3,678,458, 7-18-72, Cl. 340-107.000.

Ljungstrom, Lars Gosta: *See—*

Jansson, Lars Olov Lennart; and Ljungstrom, Lars Gosta, 3,693,240.

LKB Medical AB: *See—*

Sjostrand, Ulf Hakan; and Oberg, Per Ake, 3,650,277.

LKB-Produkter AB: *See—*

Everaerts, Frans, 3,705,845.

Forsstrom, Bo Gosta, 3,691,889.

Holmstrom, Ola Ragnar; and Lundin, Kurt Ake, 3,689,033.

Jidling, Kjell Esbjorn; and Soderkvist, Lars O. A., 3,646,960.

Ryhage, Erik Ragnar, 3,633,027.

Sjoquist, John A., 3,645,689.

Svensden, Per Just, 3,692,654.

Svensden, Per Just, 3,697,406.

Liabres, Gerard J. Crushing machines. 3,707,266, 12-26-72, Cl. 241-154.000.

Llana, Eugenio R.: *See—*

Paterick, Robert J.; Llana, Eugenio R.; and Kleman, Jerry L., 3,700,239.

Lleger, Alfred R.: *See—*

Gilvar, Martin; Conlon, Charles E.; and Lleger, Alfred R., 3,669,377.

Llewellyn, Rees Jenkin: *See—*

Bearpark, John Patrick; Pigott, Stanley Wilton; and Llewellyn, Rees Jenkin, 3,631,586.

Llewellyn, David Myers, to International Nickel Company, Inc., The. Thermal decomposition of nickel carbonyl. 3,694,186, 9-26-72, Cl. 75-5aa.

Llewellyn, David Myers, to International Nickel Company, Inc., The. Production of carbonyl iron. 3,694,187, 9-26-72, Cl. 75-5aa.

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Llewellyn, David Myers, to International Nickel Company, Inc., The. Carbonyl nickel powder and production thereof. 3,702,761, 11-14-72, Cl. 75-5aa.

Llop, Helenio, to Societe d'Optique, Precision, Electronique et Mecanique-Sopelem. Apparatus for sensing a change in light intensity. 3,672,777, 6-27-72, Cl. 356-135.000.

Llop, Helenio, to Societe d'Optique, Precision, Electronique et Mecanique-Sopelem. Regulatable continuous high voltage generator. 3,705,311, 12-5-72, Cl. 307-4.000.

Llorens, Edouard. Simulated football game apparatus. 3,642,280, 2-15-72, Cl. 273-94.

Lloyd, Adam J.; deceased (by Lloyd, Leona A.; executrix). Plunger for bottle making machine. 3,671,211, 6-20-72, Cl. 65-234.000.

Lloyd, Allen H.; and Beckman, William J., to Tech-Art, Inc. Machine for brushing and stacking carton blanks. 3,678,525, 7-25-72, Cl. 15-77.000.

Lloyd, Anthony Michael; and Alexander, David George, to Rose, Downs & Thompson Limited. Extraction of oil from oil-bearing materials. 3,696,133, 10-3-72, Cl. 260-412.800.

Lloyd, Arthur Leslie: *See—*

Marshall, David; and Lloyd, Arthur Leslie, 3,643,428.

Lloyd, E. J.; and Childs, Rex E., to United States of America, Agriculture. Splitting machine for chicken. 3,662,430, 5-16-72, Cl. 17-11.000.

Lloyd, Edward C. Navigational instrument. 3,657,629, 4-18-72, Cl. 318-647.

Lloyd, George Howard, to Marconi Instruments Limited. Peak detection circuits. 3,699,357, 10-17-72, Cl. 307-235.00a.

Lloyd, Harold B. Thermostatically controlled bathroom safety appliance. 3,648,724, 3-14-72, Cl. 137-467.

Lloyd, Harold B.; and Stewart, Sterling E. Water therapy safety controls. 3,696,996, 10-10-72, Cl. 236-92.000.

Lloyd, James R.: *See—*

Leonard, Theodore E.; and Lloyd, James R., 3,693,362.

Lloyd, James R., to Esso Production Research Company. Articulated structural support linkage. 3,670,515, 6-20-72, Cl. 61-46.500.

Lloyd, John George; and Fripp, Alan, to Bell Punch Company Limited. Calculating machines. 3,641,501, 2-8-72, Cl. 340-172.5.

Lloyd, John George; and Letheren, John David, to Sumlock Anita Electronics Limited. Calculating machines. 3,683,415, 8-8-72, Cl. 340-147.00c.

Lloyd, Kenneth R. Fish hook releasing device. 3,648,399, 3-14-72, Cl. 43-43.12.

Lloyd, Leona A.: *See—*

Lloyd, Adam J., 3,671,211.

Lloyd, Martin Herbert: *See—*

Ford, Robert Brough; and Lloyd, Martin Herbert, 3,656,327.

Lloyd, Norman C.: *See—*

Chandra, Grish; Owen, William J.; Lloyd, Norman C.; and Cooper, Bryan E., 3,699,140.

Lloyd, Norman E.; Lewis, Leonard T.; Logan, Robert M.; and Pagel, Dilip N., to Standard Brands Incorporated. Process for isomerizing glucose to fructose. 3,694,314, 9-26-72, Cl. 195-31.00f.

Lloyd, Peter Anthony: *See—*

Cotton, John Michael; and Lloyd, Peter Anthony, 3,680,053.

Lloyd, Robert H. F., to International Business Machines Corporation. Integrated circuit having lightly doped epitaxial collector layer surrounding base and emitter elements and heavily doped buried collector layer in contact with the base element. 3,638,81, 1-25-72, Cl. 317-235.

Lloyd, Robert H. F., to International Business Machines Corporation. Integrated clamping circuit. 3,654,530, 4-4-72, Cl. 317-235.

Lloyd, Robert S.: *See—*

Kereluk, Karl; and Lloyd, Robert S., 3,684,660.

Lloyd, Rodney Frederick; and Cuscrida, Michael, to Jefferson Chemical Company, Inc. Polyurethane polyols. 3,706,714, 12-19-72, Cl. 260-77.5ap.

Lloyd, Samuel H., to Santa Fe International Corporation. Blowout prevention apparatus for subaqueous drilling. 3,677,352, 7-18-72, Cl. 175-7.000.

Lloyd, Samuel H., to Santa Fe International Corporation. Column stabilized stinger transition segment and pipeline supporting apparatus. 3,704,596, 12-5-72, Cl. 61-72.300.

Lloyd, Samuel H., III, to Santa Fe International Corporation. Column stabilized stinger. 3,685,305, 8-22-72, Cl. 61-72.300.

Lloyd, Thomas: *See—*

Judd, Nigel Cecil William; Lloyd, Thomas; and Mann, Charles Trevor, 3,654,009.

Lloyd, William A., to Versatec, Inc. Electrostatic recording head. 3,693,185, 9-19-72, Cl. 346-139.00c.

Lloyd, William R. Portable gymnasium. 3,664,666, 5-23-72, Cl. 272-58.000.

Lloyds Bank Limited: *See—*

Woodham, Cecil Halliday, 3,679,184.

Lucia, Antonio Vilas. Hydrometer. 3,678,755, 7-25-72, Cl. 73-454.000.

Llewellyn, Leopold W., to Kal-Pac Engineering Ltd. Modified internal combustion engine. 3,648,671, 3-14-72, Cl. 123-55.

Lo, Mei-Kuo, to Johnson, S. C., & Son, Inc. Pressure actuated valve. 3,682,355, 8-8-72, Cl. 222-94.000.

Lo Monaco, Sergio: *See—*

Mazzolini, Corrado; Lo Monaco, Sergio; Patron, Luigi; Moretti, Alberto; and Di Ciolo, Marcello, 3,637,619.

Mazzolini, Corrado; Lo Monaco, Sergio; Patron, Luigi; Moretti, Alberto; and Di Ciolo, Marcello, 3,637,626.

Patron, Luigi; and Lo Monaco, Sergio, 3,681,311.

Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, to Chatillon Societa Anonima Italiana per le Fibre Tessili Artificiali S.p.A. Polymerization of vinyl chloride in bulk and at low temperatures. 3,635,925, 1-18-72, Cl. 260-85.5.

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Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, to Chatillon Societa Anonima Italiana per le Fibre Tessili Artificiali S.p.A. Process for the polymerization of vinyl chloride. 3,652,522, 3-28-72, Cl. 260-87.5.

Lo Monaco, Sergio; Guerrato, Alfredo; Fabbro, Dario; and Donadello, Graziello. Fluorocarbon-containing compounds and method of imparting oil- and water-repellency to textiles, paper, leather and the like. 3,671,493, 6-20-72, Cl. 260-75.0nh.

Lo Sasso, Ronald Alfred; and Rausch, Emerson G., to Calgon Corporation. Conditioning sewage waste sludges for dewatering. 3,642,619, 2-15-72, Cl. 210-52.

Loader, Mary Ann: *See—*

Anker, Charles A.; Foster, George A., Jr.; and Loader, Mary Ann, 3,653,925.

Loadholtes, Robert W.: *See—*

Cochran, Tatum R., 3,653,195.

Lobb, Daniel R.: *See—*

West, Robert N.; Brook, Richard A.; Shaw, Richard G.; Lobb, Daniel R.; and Allnutt, Anthony J., 3,676,008.

Lobdell-Emery Manufacturing Co.: *See—*

Smith, George J., 3,679,163.

Lobeck, Walter G.: *See—*

Wu, Yao Hua; and Lobeck, Walter G., 3,679,692.

Lobiondo, Joseph V.: *See—*

Lobiondo, Salvatore J.; and Lobiondo, Joseph V., 3,644,125.

Lobiondo, Salvatore J.; and Lobiondo, Joseph V. Process for producing cooked hams. 3,644,125, 2-22-72, Cl. 99-107.

Loblick, Dermont F. Dockboard lip raising mechanism. 3,685,076, 8-22-72, Cl. 14-71.000.

Loblick, Dermont F. Hydraulic arrangement for dockboards. 3,694,839, 10-3-72, Cl. 14-71.000.

Loblick, Dermont F. Dockboard raising mechanism. 3,694,840, 10-3-72, Cl. 14-71.000.

Loblois, Michel, to Societe Metallurgique de Douarneneg. Pull-strip opening means. 3,637,105, 1-25-72, Cl. 220-53.

Loboda, Jon A.: *See—*

Kmet, Thomas J.; and Loboda, Jon A., 3,704,321.

Muzyczko, Thaddeus M.; Shore, Samuel; and Loboda, Jon A., 3,687,870.

Locatelli, Antoine: *See—*

Goffinet, Bernard; and Locatelli, Antoine, 3,646,118.

Locatelli, Loris, to Franchi, Luigi, S.p.A. Heelplate for a rifle. 3,683,538, 8-15-72, Cl. 42-74.000.

Locati, Norman C.: *See—*

Hurlburt, Joseph C.; McCarty, Horace G.; and Locati, Norman C., 3,698,167.

Locati, Norman C.; and Edgerton, John Leslie, to Omark Industries, Inc. Side sharpenable cutter structures. 3,641,751, 2-15-72, Cl. 56-291.

Locati, Norman Carl, to Omark Industries, Inc. Power transmission belts. 3,651,626, 3-28-72, Cl. 56-290.

Loch, Alphonse: *See—*

Loch, George N.; and Loch, Alphonse, 3,679,046.

Loch, Charles H., to Holophane Company, Inc. Light fixture for a storage aisle. 3,681,591, 8-1-72, Cl. 240-41.300.

Loch, George N.; and Loch, Alphonse. Grain auger device. 3,679,046, 7-25-72, Cl. 198-213.000.

Loch, Werner: *See—*

Striebel, Wilhelm K.; and Loch, Werner, 3,656,979.

Locher, Johannes: *See—*

Adler, Karl-Heinz; Locher, Johannes; Lemanczyk, Rudolf; and Schonart, Edgar, 3,699,935.

Adler, Karl-Heinz; Domann, Helmut; and Locher, Johannes, 3,701,041.

Lochman, Harry E.: *See—*

Dinenno, Philip A., Jr.; Bonk, Joseph S.; Conrad, Kenneth C.; Moore, Rodney S.; Lochman, Harry E.; and Torello, Daniel D., 3,677,658.

Lochner, Clarence J. Safety hook latch. 3,653,703, 4-4-72, Cl. 292-106.

Lochner, Herbert, to Cik-Chemische Industrie Kempen GmbH. Process for the manufacture of varicolored, ornamentally designed needled non-woven fabrics. 3,705,064, 12-5-72, Cl. 156-72.000.

Lochridge, Byron C.: *See—*

Hughes, John M.; Lehnhardt, Stanley E.; and Lochridge, Byron C., 3,646,509.

Lochridge, Joe C.: *See—*

Jones, Jerry J.; Keenon, Delbert L.; Morgan, William A.; and Lochridge, Joe C., 3,668,878.

Lochridge, Robert L., Jr. Light display apparatus. 3,644,725, 2-22-72, Cl. 240-1.

Lock, Everett H.: *See—*

Maurer, William C.; Lock, Everett H.; and Graham, Robert L., 3,688,853.

Lock, Everett H.; and Heilhecker, Joe K., to Esso Production Research Company. Method for forming tool assembly. 3,673,676, 7-4-72, Cl. 29-473.100.

Lock, Everett H.; and Maurer, William C., to Esso Production Research Company. Threaded connection. 3,687,493, 8-29-72, Cl. 285-333.000.

Lock, Harry R., to Power Parts Company. Lightweight gear housing. 3,667,318, 6-6-72, Cl. 74-609.000.

Lock, James A.: *See—*

Violette, Glenn M.; Paquin, Leon J.; and Lock, James A., 3,700,525.

Lock, Joseph H., to Mead Corporation, The. Reclosable container. 3,648,921, 3-14-72, Cl. 229-51.

Lock, Joseph H., to Mead Corporation, The. Package having corner web structure. 3,680,691, 8-1-72, Cl. 206-65.00r.

Lock, Joseph H., to Mead Corporation, The. Panel interlocking means and method. 3,701,181, 10-31-72, Cl. 24-204.000.

Lock, Michael Charles: *See—*

Mc Dougall, Ian Leitch; and Lock, Michael Charles, 3,669,905.

Lock, Michael V., to Deering Milliken Research Corporation. Two step modification of textile materials. 3,703,351, 11-21-72, Cl. 8-116.300.

Lock, Roger David, to Bell Canada-Northern Electric Research Limited. Propagation of magnetic bubble domains. 3,676,872, 7-11-72, Cl. 340-174.0tf.

Lock, Thomas, to Borg-Warner Corporation. Pump. 3,639,089, 2-1-72, Cl. 418-93.

Lockard, Joseph L.; and Rose, William Henry, to AMP Incorporated. Rotary switch with improved printed circuit contact and terminal connection array. 3,699,279, 10-17-72, Cl. 200-11.00g.

Lockard, Joseph Larue; and Rose, William Henry, to AMP Incorporated. Thumbwheel switch with floatingly positioned actuator. 3,665,127, 5-23-72, Cl. 200-11.0tw.

Lockard, Joseph Larue, to AMP Incorporated. Embossed card reader. 3,706,874, 12-19-72, Cl. 235-61.11e.

Locke, Frank W., to Hoerner-Waldorf Corporation. Display tray. 3,674,133, 7-4-72, Cl. 206-44.000.

Locke, George William, to Burroughs Corporation. Functions comparing circuit. 3,668,431, 6-6-72, Cl. 307-243.000.

Locke, James W., Sr.; and Goeller, John C., III, to Diamond Power Specialty Corporation. Fluid projection apparatus for cleaning heat exchangers. 3,664,310, 5-23-72, Cl. 122-379.

Locke, Joe B.: *See—*

Bruton, Billy R.; and Locke, Joe B., 3,650,288.

Locke, Joe B., to U.S. Industries, Inc. Safety relief valve. 3,650,289, 3-21-72, Cl. 137-219.

Locke, John Michael: *See—*

Duck, Edward William; Ridgewell, Brian John; and Locke, John Michael, 3,676,409.

Duck, Edward William; Locke, John Michael; and Amass, Allan John, 3,703,566.

Locke, Joseph K., to Berngomatic Corporation. Blow torch burner. 3,663,154, 5-16-72, Cl. 431-353.

Locke, Robert A., to Sperry Rand Corporation. Asynchronous printer. 3,651,914, 3-28-72, Cl. 197-49.

Locke Stove Company: *See—*

Martin, Norman L., 3,693,534.

Lockett, Alfred Peter: *See—*

Fox, Maurice Rayner; Stewart, Neil David; and Lockett, Alfred Peter, 3,644,137.

Lockett, Eugene C. Mop. 3,698,030, 10-17-72, Cl. 15-104.940.

Lockett, George Edward: *See—*

Rennie, Compton Alexander; Lockett, George Edward; and Hosegood, Samuel Brittan, 3,676,297.

Lockhart, Ian Moyle, to Parke, Davis & Company. Pyrrolidine compounds with unsaturated substituent. 3,637,742, 1-25-72, Cl. 260-326.5.

Lockhart, Ian Moyle, to Parke, Davis & Company. 1-(p-Oxyphenethyl)-3-(m-oxyphenyl)pyrrolidine compounds. 3,652,587, 3-28-72, Cl. 260-326.3.

Lockheed Aircraft Corporation: *See—*

Adams, Robert H., 3,675,141.

Allen, Richard L., 3,658,009.

Barland, Edwin S., Sr.; Cornish, Joseph J., III; and Henrich, Grady B., 3,693,913.

Billias, Michael C.; and Floyd, Robert L., Jr., 3,645,816.

- Boberg, John E., 3,687,054.
 Brandt, Oscar E.; and Harris, Joseph G., 3,698,281.
 Burton, Raymond V., Jr.; and Giachino, Eugene L., 3,683,675.
 Camahort, Jose L.; and Gomez, Mario P., 3,634,132.
 Chang, Hua-Shan, 3,643,171.
 Chappell, Robert N.; and Carroll, Robert L., 3,672,170.
 Comstock, Richard L.; Chow, Kungta K.; and Leonard, William B., 3,653,744.
 Cronin, Michael J., 3,701,964.
 DiDonato, Victor J., 3,658,197.
 Ebin, Joseph A., 3,678,956.
 Eglin, Stuart B.; and Eisenbraun, Edgar W., 3,658,758.
 Eglin, Stuart B.; and Eisenbraun, Edgar W., 3,658,759.
 Evans, Richard A., 3,641,940.
 Flournoy, James W.; and Heyden, Gary F., 3,638,983.
 Forsyth, John P.; and Forsyth, Robert W., 3,653,687.
 Garday, Louis C.; and Nemecek, Arthur A., 3,673,855.
 Gilchrist, William C.; and Brewer, William A., 3,651,211.
 Goldberg, Leonard Z., 3,674,291.
 Goldberg, Leonard Z., 3,695,644.
 Gutmann, Fredrick T., 3,636,702.
 Herbert, John T.; Sullivan, Paul E.; and Vitt, Stanley P., 3,680,895.
 Hollis, David L., 3,657,564.
 Horowitz, Donald J., 3,670,426.
 Jacobs, Willi F.; and Platzer, Maximilian F., 3,669,386.
 Kastan, Howard; and Pena, Joe C., 3,695,779.
 Lahde, Reinhard N., 3,644,809.
 Lahde, Reinhard N., 3,664,199.
 Lyons, Ernest H., Jr., 3,655,547.
 McCarthy, William H.; Fenn, Raymond W., Jr.; and Crooks, Donald D., 3,664,889.
 Pappas, Michael, 3,637,999.
 Peterson, Carlton G., 3,654,811.
 Ratcliffe, David J., 3,643,247.
 Rempt, Henry F., 3,656,164.
 Rhodes, Joseph E., Jr., 3,639,039.
 Robertson, Arthur J., 3,658,279.
 Rogers, Patrick F.; and Hendrickson, Warren L., 3,672,304.
 Rostad, Nels C.; and Davis, Walter J., 3,647,315.
 Rostad, Nels C., 3,698,662.
 Searle, Norman; and Tatom, John W., 3,640,468.
 Smith, Donald G., 3,706,431.
 Smith, Richard L., 3,644,238.
 Southard, Charles V., 3,664,464.
 Spangler, Earl G., 3,690,904.
 Spilker, James J., Jr., 3,638,121.
 Thompson, Edward R., 3,647,471.
 Turner, Charles J., Jr., 3,706,968.
 Walkey, George J.; and Adgate, Frank N., 3,631,745.
 Weber, Kenneth E.; Hoch, Geraldine H.; and Wanamaker, John L., 3,664,808.
 Whitla, James, 3,647,165.
 Williams, William W., 3,655,149.
 Lockheed Aircraft Corporation, *mesne*: *See*—
 Inoue, Kiyoshi; and Saito, Shinroku, 3,656,946.
 Inoue, Kiyoshi, 3,670,137.
 Lockheed Missiles & Space Company: *See*—
 Osborne, Bodwell D., 3,658,596.
 Lockie, Arthur M.; and Leonard, Merrill G., to Westinghouse Electric Corporation. Electrical connector. 3,686,603, 8-22-72, Cl. 337-201.000.
 Locking Devices, Inc.: *See*—
 Moore, Donald B., 3,702,708.
 Locking Systems, Inc.: *See*—
 Roberts, Marvin E., 3,668,909.
 Locklar, Henry C.: *See*—
 Davidge, Ronald V.; Locklar, Henry C.; Ralston, James C.; and Ritchie, Robert T., 3,700,328.
 Lockley Manufacturing Co., Inc.: *See*—
 Vukich, Franklin J., 3,684,233.
 Locklin, Harry Paul: *See*—
 Bennahmias, Daniel; Locklin, Harry Paul; and Locklin, Paul Gordon, 3,682,854.
 Locklin, Paul Gordon: *See*—
 Bennahmias, Daniel; Locklin, Harry Paul; and Locklin, Paul Gordon, 3,682,854.
 Lockshaw, John E. Solderless lug connector. 3,688,245, 8-29-72, Cl. 339-95.000.
 Lockspike Limited: *See*—
 Davies, Geoffrey Peter, 3,658,246.
 Lockwood, Charles A., to Shoe and Allied Trades Research Association, The. Shoe making. 3,641,603, 2-15-72, Cl. 12-146.
 Lockwood, David L.: *See*—
 Clark, Richard J., Jr.; Veron, Harry; Gilmour, Alexander S., Jr.; and Lockwood, David L., 3,696,264.
 Lockwood, Don L.: *See*—
 Hand, John W.; Lockwood, Don L.; and Harris, Robert K., 3,704,011.
 Lockwood, George C., to National Cash Register Company, The. Nonvolatile memory cell. 3,651,492, 3-21-72, Cl. 340-173.

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 Lockwood, Glynn H., to Lockwood Technical, Inc. Inverted wheel applicator. 3,636,921, 1-25-72, Cl. 118-259.
 Lockwood, John C., to Scripto Inc. Mechanical pencil having means to prevent breakage of small diameter leads. 3,639,068, 2-1-72, Cl. 401-58.
 Lockwood, Larry R.: *See*—
 Kauffman, Eugene C.; and Lockwood, Larry R., 3,646,456.
 Lockwood, Lawrence S., to Universal Oil Products Company. Reactor for fluidized particles with adjustable level weir to particle outlet. 3,690,842, 9-12-72, Cl. 23-288.00s.
 Lockwood Manufacturing Company: *See*—
 Phillips, Charles E., 3,693,824.
 Lockwood, Peter; and Pentith, Gerald R. O., to Greenside Machine Company Limited. Tunnelling machines. 3,639,004, 2-1-72, Cl. 299-10.
 Lockwood Technical, Inc.: *See*—
 Law, Raymond Thomas, 3,661,679.
 Lockwood, Glynn H., 3,636,921.
 Lockwood, William H., Jr.: *See*—
 Rakow, Marvin S.; and Lockwood, William H., Jr., 3,655,807.
 Rakow, Marvin S.; and Lockwood, William H., Jr., 3,689,590.
 Locono, Tony: *See*—
 Speckman, Clifford H., 3,636,685.
 Loctite (Ireland), Limited: *See*—
 O'Sullivan, Denis J.; and Bolger, Bernard J., 3,699,127.
 O'Sullivan, Denis Joseph; and Stamper, David John, 3,682,875.
 Loctite Corporation: *See*—
 Gorman, Jeremy W., 3,704,264.
 Hauser, Martin, 3,634,379.
 Neumann, Edward W.; and Borowski, Richard, 3,672,942.
 Pauwels, William A.; and Nystrom, Robert G., 3,638,831.
 Locuty, Pierre: *See*—
 Hoffmann, Arthur W.; Locuty, Pierre; and Buhlmann, Walter, 3,660,194.
 Lodging Engineering Corporation: *See*—
 Costello, Edward, Jr.; Cooper, Joseph S.; and Dunlap, Harold E., 3,688,336.
 Grenier, John E., 3,645,844.
 Murphy, William M.; and Beauchemin, Norman J., 3,687,730.
 Pezaris, Constantine Demetrius; and Pantazelos, Theophanes G., 3,677,831.
 Loder, Edwin R.: *See*—
 Patil, Arvind S.; Veltman, Preston L.; Loder, Edwin R.; Sabatelli, Philip M.; and Sarge, Carmen R., 3,682,190.
 Sabatelli, Philip M.; Sarge, Carmen R.; Loder, Edwin R.; and Brungs, Charles A., 3,644,650.
 Sabatelli, Philip M.; Loder, Edwin R.; Brungs, Charles A.; and Sarge, Carmen R., 3,671,440.
 Stamm, James K.; Loder, Edwin R.; Brungs, Charles A.; and Kerst, Herman, 3,689,436.
 Stamm, James K.; Loder, Edwin R.; Brungs, Charles A.; and Kerst, Herman, 3,692,704.
 Loder, Wallace R., Jr.: *See*—
 Vis, Jan H.; and Loder, Wallace R., Jr., 3,685,976.
 Lodge, Edward H.: *See*—
 Figge, Erwin E.; Lancor, Joseph H., Jr.; and Lodge, Edward H., 3,669,532.
 Lodge, Frank: *See*—
 Harvey, Edwin Dennis; and Lodge, Frank, 3,669,994.
 Lodge, John Ewart, to Imperial Chemical Industries Limited. 9,9-Bis-amino alkyl fluorene sulphonic acids and metal salts thereof. 3,652,661, 3-28-72, Cl. 260-510.
 Lodge, John Ewart. Synthetic polymers from sulfo-bis (aminoalkyl) fluorene. 3,687,903, 8-29-72, Cl. 260-78.00r.
 Lodge, Malcolm A.: *See*—
 Parker, Robert E.; Lodge, Malcolm A.; and Jewell, George S., 3,704,372.
 Lodge-Cottrell Limited: *See*—
 Busby, Howard G. T., 3,686,825.
 Dyla, John F.; and Attfield, Robin A., 3,660,968.
 Dyla, John F.; Moore, William M.; and Attfield, Robin A., 3,688,475.
 Lodige, Alois. Shelving arrangements. 3,658,186, 4-25-72, Cl. 211-134.
 Lodige, Fritz: *See*—
 Lodige, Wilhelm; Lodige, Fritz; Lucke, Josef; and Luke, Karlheinz, 3,666,240.
 Lodige, Wilhelm: *See*—
 Lodige, Wilhelm; Lodige, Fritz; Lucke, Josef; and Luke, Karlheinz, 3,666,240.
 Lodige, Wilhelm; Lodige, Fritz; Lucke, Josef; and Luke, Karlheinz, to Lodige, Wilhelm, Lodige, Fritz and said Luke assor. to Lucke, Josef. Gravity mixer. 3,666,240, 5-30-72, Cl. 259-3.000.
 Lodrick, Lester B.; and Teno, Vincent N. Coin packer. 3,696,582, 10-10-72, Cl. 53-59.000.
 Lodynski, Emil; to Leutert, Friedrich, Firma. Apparatus for setting of rods for deep well installations. 3,679,178, 7-25-72, Cl. 254-93.00r.

- Loeb, Julien M., to Compagnie Generale de Ceophysique. Method and apparatus for measuring variations in a quantity with respect to a known reference value. 3,675,485, 7-11-72, Cl. 73-382.000.
 Loeb, Leopold, to General Electric Company. Fabric treating method. 3,647,354, 3-7-72, Cl. 8-158.
 Loebel, Wolf, to Motoren- und Turbinen-Union Munchen GmbH. Installation for the support of pivotal guide blades. 3,652,177, 3-28-72, Cl. 415-110.
 Loebler, August F. Safety cam pin assembly. 3,648,562, 3-14-72, Cl. 89-185.
 Loebner, Egon E.: *See*—
 Barrett, John C.; Borden, Howard C.; and Loebner, Egon E., 3,701,123.
 Loeffel, Emil. Self-storing fire escape ladder. 3,677,366, 7-18-72, Cl. 182-70.000.
 Loeffel, Hansrolf; Lenoir, John; and Piller, Bernhard, to Ciba Limited. Photographic light-sensitive material. 3,634,091, 1-11-72, Cl. 96-99.
 Loeffler, Donald E., to Shell Oil Company. High temperature stable grease compositions. 3,689,413, 9-5-72, Cl. 252-51.50a.
 Loeffler, Earl Ferdinand: *See*—
 Brey, Wilhelm; Hostetler, William; Loeffler, Earl Ferdinand; Kolm, Hubert Ernest; and Elder, Fred Grove, 3,700,526.
 Loeffler, Herbert H.; and DiMauro, Sebastian B., to Amicon Corporation. Pump. 3,652,187, 3-28-72, Cl. 417-393.
 Loeffler, Larry J., to Merck & Co., Inc. Anti-fibrinolytic compounds. 3,634,499, 1-11-72, Cl. 260-514.
 Loeffler, Larry J., to Merck & Co., Inc. Anti-fibrinolytic compounds. 3,641,128, 2-8-72, Cl. 260-514.
 Loeffler, Larry J., to Merck & Co., Inc. Anti-fibrinolytic compounds. 3,641,129, 2-8-72, Cl. 260-514.
 Loeffler, Larry J., to Merck & Co., Inc. [3,3,]heptane amino acids. 3,666,790, 5-30-72, Cl. 260-468.00r.
 Loeffler, Louis H. Peeling device. 3,654,976, 4-11-72, Cl. 146-49.
 Loeffler, Robert W.; Loeffler, Walter W., Jr.; and Stubbs, Edward L., to Ler-Son Company, Incorporated. Method for external coating of cylindrical objects. 3,689,311, 9-5-72, Cl. 117-94.000.
 Loeffler, Walter W., Jr.: *See*—
 Loeffler, Robert W.; Loeffler, Walter W., Jr.; and Stubbs, Edward L., 3,689,311.
 Loehr, Clifford E.: *See*—
 Benner Floyd E., Jr.; and Loehr, Clifford E., 3,692,055.
 Darr, Donald E.; Edwards, G. Byron; Loehr, Clifford E.; and Young, Elgin E., 3,640,745.
 Loepfe, Erich, to Aktiengesellschaft Loepfe. Method and apparatus for detecting a relative movement between two bodies being in frictional contact with each other. 3,676,769, 7-11-72, Cl. 324-32.000.
 Loersch, Johannes. Mounts for slide transparencies. 3,681,866, 8-8-72, Cl. 40-152.000.
 Loesch, Claude E.: *See*—
 Loesch, Leo J.; and Loesch, Claude E., 3,637,108.
 Loesch, Leo J.; and Loesch, Claude E. Seed planter. 3,637,108, 1-25-72, Cl. 221-211.
 Loesch, Norbert: *See*—
 Corr, Hubert; Grosskinsky, Ott-Alfred; Loesch, Norbert; and Pilch, Kurt, 3,632,648.
 Loesch, Raymond W. System for maintaining laterally spaced vehicles longitudinally abreast. 3,651,882, 3-28-72, Cl. 180-14.
 Loessi, Jack C., to United States of America, Navy. Feedback switching circuit for eliminating error signals. 3,694,760, 9-26-72, Cl. 330-9.000.
 Loev, Bernard: *See*—
 Dowalo, Frederick G.; and Loev, Bernard, 3,661,944.
 Jen, Timothy Yu-Wen; and Loev, Bernard, 3,658,958.
 Loev, Bernard, to Smith Kline & French Laboratories. Lower alkyl a-(di-lower alkylsulfamoyl)-a-phenylalkanoic acid esters. 3,636,075, 1-18-72, Cl. 260-470.
 Loev, Bernard, to Smith Kline & French Laboratories. 3-Aminomethylpyrazolinones 3-aminomethylpyrazoles. 3,637,737, 1-25-72, Cl. 260-310.
 Loev, Bernard, to Smith Kline & French Laboratories. 2-(Di-lower alkylaminoalkyl)-2,3,4,5-tetrahydro-5-phenyl-1H-2-benzazepin-1-ones. 3,686,165, 8-22-72, Cl. 260-239.30b.
 Loew, Theodore, to Standard Products Company, The. Injection molded decorative plaques. 3,654,062, 4-4-72, Cl. 161-119.
 Loew, Theodore, to Standard Products Company, The. Decorative trim strip assembly. 3,681,887, 8-8-72, Cl. 52-718.000.
 Loew, Theodore, to Standard Products Company, The. Bump-protection molding. 3,687,502, 8-29-72, Cl. 293-1.000.
 Loewe, Hans: *See*—
 Ludwig, Herbert, 3,667,883.
 Loewe, Heinz: *See*—
 Ruschig, Heinrich; Duwel, Dieter; Konig, Johann; and Loewe, Heinz, 3,681,458.
 Loewe Opta GmbH: *See*—
 Dennewitz, Rolf Dictor, 3,675,074.
 Dennewitz, Rolf Dieter, 3,685,409.
 Dennewitz, Rolf Dieter; and Breitzkreuz, Lutz, 3,703,662.
 Heintze, Werner, 3,683,233.
 Ratsch, Joachim, 3,651,373.

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 Loewe, Richard T.: *See*—
 Larson, Harry T.; and Loewe, Richard T., 3,697,687.
 Loewen, Bruno F.: *See*—
 Austin, Oliver K.; and Loewen, Bruno F., 3,674,437.
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 Lofgren, Stig-Gunnar: *See*—
 Eriksson, Erik Helmer; Frisk, Olof Edvin; Hogberg, Lars-Gunnar; Lofgren, Stig-Gunnar; and Tjarnstrom, Sven Paul, 3,659,636.
 Lofquist, Robert Alden: *See*—
 Lazarus, Stanley David; and Lofquist, Robert Alden, 3,701,757.
 Lofquist, Robert A.: *See*—
 Weedon, Gene C.; Lofquist, Robert A.; and Mumford, Robin B., 3,642,714.
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 Lofredo, Antony: *See*—
 Foster, Kenneth M.; and Lofredo, Antony, 3,653,220.
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 De Nora, Vittorio; and Loftfield, Richard E., 3,672,973.
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 Cavagnero, Erman V.; and Loftus, Joseph F., 3,675,460.
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Ohlin, Lars Erik; and Lofvenmark, Jan Olof, 3,663,823.
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Shames, Harold; Shames, Sidney J.; and Logan, John F., 3,637,143.
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Willis, David M., 3,682,403.
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Lee, Tsze K.; Brooks, Jeffrey N.; and Logan, Ralph, 3,633,205.
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Lloyd, Norman E.; Lewis, Leonard T.; Logan, Robert M.; and Pagel, Dilip N., 3,694,314.
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Wann, Robert Earl; Nicholson, Denzel Allan; and Logan, Ted Joe, 3,691,077.
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Smiltneck, Ralmond J., 3,645,381.
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Schnalke, Karl-Erwin; Suling, Carlhans; Logemann, Heino; and Resz, Raoul, 3,639,514.
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DeRooy, Michael A.; Logemann, Johan D.; and Kienders, Henricus A. A., 3,691,729.
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Ambrogio, Vittorio; and Logemann, Willy, 3,669,966.
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Frenkel, Jean-Mathieu; Logerot, Jean-Marie; Petrequin, Pierre; Syre, Robert; and Weisz, Michel, 3,685,988.
- LogEtronics Inc.: *See—*
Mason, Robert P., 3,700,329.
- Logging Systems, Inc.: *mesne: See—*
Batson, Dossie M., 3,650,422.
- Logic Dynamics, Inc.: *See—*
Hovnanian, Vram E.; and Kitzmiller, Edward, 3,670,208.
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Sterns, Robert B.; and Richards, Robert R., 3,646,418.
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Goldman, Joseph, 3,685,719.
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Chang, Clarence D.; and Logiudice, Albert S., 3,644,541.
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Otto, Ferdinand P.; and Logothetis, Andreas, 3,642,847.
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Harrell, Jerald R.; Logothetis, Anestis L.; and Verbanc, John J., 3,679,627.
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Yamada, Yoshikazu; Sund, Joseph Tat-Hin; and Logue, Daniel R., 3,706,276.
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Bryant, Kenneth Owen; Morrow, William R.; and Logue, Vernon J., 3,680,088.
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Claus, Karl; and Lohaus, Gerhard, 3,689,485.
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Rohrle, Anto, 3,685,505.
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Neal, Arthur H.; Lohman, Raymond C.; and Pine, Lloyd A., 3,649,710.
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Burkhardt, Walter; and Wedler, Herbert, 3,669,230.
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Wahl, Hans Heinz; Guminski, Alfons; and Lohmann, Gunther, 3,651,859.
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Mucke, Bruno; Lohmer, Karl; and Gold, Heinrich, 3,645,743.
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Zankl, Frank; and Lohneis, Earl R., 3,674,323.
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Berg, Markus; Fries, Walter; and Lohr, Albrecht, 3,689,424.
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Wheeler, Donald J.; and Lohrenz, Victor, 3,706,251.
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Schmid, Rolf; Lohse, Friedrich; Fisch, Willy; and Batzer, Hans, 3,642,674.
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Ulrich, Walter; Lohse, Karl-Heinz; Leuteritz, Jochen; Zeitzschel, Gunter; and Fasol, Robert, 3,668,069.
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Denis, Jean-Pierre; and Loiers, Jean, 3,634,282.
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Dupieux, Jacques Georges; Gadre, Jean-Claude; Le Corre, Jean-Pierre; and Loisel, Jean Francois Pierre Julien, 3,678,206.
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Dolfig, Thale; and Lolkema, Jan, 3,690,107.
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Decursu, Giorgio; De Pas, Jonathan; D'Urbino, Donato; and Lomazzi, Paolo, 3,672,723.
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Lombard, Daniel L., 3,672,038.
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Hutchinson, Thomas R.; and Lombard, Marco Hans, 3,693,089.
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Hostettler, Fritz; and Lombardi, Frank G., 3,658,761.
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Anderson, Sven; and Lombardo, Anthony, 3,699,907.
- Lommel, James M.: *See—*
Chen, Arthur C. M.; and Lommel, James M., 3,660,158.
- Kouvel, James S.; Lommel, James M.; and Douglas, Thomas E., 3,637,442.
- Rodbell, Donald Stanley; and Lommel, James M., 3,700,500.
- Lommers, Anthonius J.J.C.L.: *See—*
Roza, Engel; Benning, Herman J.G.M.; and Lommers, Anthonius J.J.C.L., 3,665,344.
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Barrett, Ernest Charles Henry, 3,671,409.
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Cravits, Phillip, 3,678,533.
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Gray, Laverne E., 3,653,495.
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Patterson, Billy R., 3,690,348.
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Burke, John E.; Kaiser, Edward J.; and Myers, Charles J., 3,643,531.
- Long, Alan Gibson: *See—*
Clark, John Colin; Cowley, Brian Richard; Gregory, Gordon Ian; Kennedy, James; and Long, Alan Gibson, 3,647,788.
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Soto, Eduardo Rodriguez; and Longo, Joaquin, 3,704,734.
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Browning, Iben, 3,704,948.
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Hoffman, Albert Louis; and Longstaff, Derek Elden, 3,649,882.
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Regan, Bernard M.; and Longstreet, John C., 3,683,092.
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Frazier, John R.; and Longstreth, Larry D., 3,667,623.
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Kadi, Frank J.; Longsworth, Ralph C.; and Meier, Richard N., 3,706,208.
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Budington, Richard V., 3,705,557.
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Piacentino, Thomas J., 3,704,752.
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Lindelof, Leonard A., 3,631,932.
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Connett, Donald C.; Olsen, Gerald N.; and Lonnemo, Kurt R., 3,646,959.
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Svensson, Sven Erik; and Lonngren, Per-Lennart, 3,658,599.
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Aufderreggen, Klaus; Arni, Urs; Faucci, Adriano; and Stocker, August, 3,683,003.
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Arni, Urs; Faucci, Adriano; and Stocker, August, 3,655,721.

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Burness, Donald M.; and Looker, Jerome J., 3,681,372.
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Nicholas, Winslow C.; and Loomis, Joseph L., 3,706,105.
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Hegenberger, John N., 3,673,730.
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Hecker, Robert W., Jr.; and Beckwith, Robert C., 3,699,601.
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Gerlach, Howard G., Jr.; and Looney, Catharine E., 3,658,543.
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Ibach, William F.; Looney, Franklin S., Jr.; and Reitz, David C., 3,664,381.
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Chu, Arthur S.; and Loozen, Joseph H. F., 3,632,652.
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Fein, Marvin; Loprest, Frank; and Shaheen, Donald G., 3,698,969.
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Deutsch, Albert S.; and Loprest, Frank J., 3,637,384.
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Boers, Jan H.; Rutherford, Robert C.; and Loquai, John R., 3,650,013.
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- Jamieson, Robert S., 3,651,414.
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Tarry, Robert James; Kriellaars, Johannes C.; and Lord, Ronald D., 3,681,685.
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Charle, Roger; Kalopissis, Gregoire; and Zviak, Charles, 3,679,102.
- Foirest, Jacques, 3,645,063.
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- Netter, Pierre, 3,702,508.
- Pelli, Pierre, 3,650,271.
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Robinson, Joseph D.; Loren, Jay D.; and Higdon, William T., 3,657,730.
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Boltze, Karl-Heinz; and Lorenz, Dietrich, 3,652,567.
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Kress, Robert F.; and Lorenz, Eldon L., 3,640,642.
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Gallus, Manfred; Lorenz, Gunter; and Nischk, Gunther, 3,637,594.
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Rosser, Eugene P.; and Lorenz, Howard I., 3,664,442.
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Rohloff, Ebbe; and Lorenz, Richard, 3,647,926.
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Archer, Sydney; and Lorenz, Roman R., 3,673,222.
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Schrader, Gerhard; Lorenz, Walter; Unterstenhofer, Gunter; and Hammann, Ingeborg, 3,676,555.
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Sennewald, Kurt; Hauser, Alfred; and Lork, Winfried, 3,647,867.
Sennewald, Kurt; Hauser, Alfred; Gehrmann, Klaus; and Lork, Winfried, 3,658,886.
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Sennewald, Kurt; Erpenbach, Heinz; Vogt, Wilhelm; Lork, Winfried; and Prinz, Peter, 3,691,096.
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Diery, Helmut; Rittner, Siegbert; and Lorke, Horst, 3,666,779.
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Sherwood, Henry A., 3,687,462.
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Chen, Allen, 3,694,939.
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Swodenk, Wolfgang; Schwerdtel, Wulf; Losacker, Paul; and Engelhard, Bruno, 3,673,265.
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Bernstein, Jack; and Losbe, Kathryn A., 3,660,469.
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Fishman, Murray, 3,691,118.
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Bernstein, Jack; and Losee, Kathryn Alice, 3,660,464.
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Waschulewski, Hans-Georg; Baumers, Hans; and Lambertz, Hans-Reinhard, 3,636,834.
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Rembold, Heinz; and Losert, Ewald, 3,676,200.
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Stehle, Peter Fallon; Wu, Chan K.; Loshaek, Samuel; and Dickstein, Jack, 3,644,262.
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Shanahan, William J.; Zopf, Vincent R.; and Loshin, Albert M., 3,689,688.
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Dietrich, Hans, 3,641,772.
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Steffen, Robert; Crombach, Arno; Lossen, Hermann; and Bieringer, Johann, 3,639,297.
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Gundlach, Robert W.; Lot, Leon C.; and Snelling, Christopher, 3,642,598.
- Lotarev, Vladimir Alexeevich: See—
Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pyanov, Valentin Nikiforovich; Golovkin, Jury Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.
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Bechman, William H.; Lott, Walter E.; and Siewert, John F., 3,660,914.
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Leibach, Heinrich; Schweikl, Ludwig; and Lottes, Paul, 3,685,738.
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Hocking, Loren P.; and Lotti, Louis B., 3,691,522.
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Gabillard, Robert; Louage, Francois; and Desbrandes, Robert, 3,690,164.
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Chalfin, Gregory T.; Louapre, Merlin E.; and Olson, Richard C., 3,680,140.
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Gerin, Paul; Louat, Lucien; and Quillet, Jean-Pierre, 3,699,215.
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- Lougheed, Earl H. Form for concrete flat work. 3,680,823, 8-1-72, Cl. 249-3.000.
- Lougheed, James H., to Northern Electric Company Limited. Digital frequency multiplying system. 3,673,391, 6-27-72, Cl. 235-150.300.
- Lougher, George B., III: See—
Abraham, Bruce C.; Fegley, Charles R.; and Lougher, George B., III, 3,674,141.
- Loughlin, Bernard D., to Hazeltine Corporation. Flare light compensator. 3,641,259, 2-8-72, Cl. 178-7.5.
- Loughlin, James E.: See—
Snider, Orville E.; Loughlin, James E.; and Ortheil, Hans, 3,635,653.
- Loughman, Joseph F., Jr.: See—
Rock, Edward M.; Loughman, Joseph F., Jr.; and Mc Manus, Ann, 3,670,872.
- Loughran, Anthony. Baling press bale releasing means. 3,687,068, 8-29-72, Cl. 100-255.000.
- Loughran, Eugene F., Jr., to North American Philips Corporation. Rotary actuator and indicator. 3,671,900, 6-20-72, Cl. 335-272.
- Loughridge, Frederick A.; Matheson, Wilfrid G.; and Passmore, Edmund M., to Sylvania Electric Products, Inc. Seal arrangements for lamps. 3,676,730, 7-11-72, Cl. 313-318.000.
- Loughridge, Frederick Ardel: See—
Anderson, John Wallace; and Loughridge, Frederick Ardel, 3,676,043.
- Louie, Lawrence D. Tongue scraper. 3,683,924, 8-15-72, Cl. 128-4.000.
- Louis, Anthony, to Aquaria, Inc. Lamp housing structure. 3,676,665, 7-11-72, Cl. 240-41.500.
- Louis, Rodney Brian, to African Explosives and Chemical Industries Limited. Gas sampling. 3,672,225, 6-27-72, Cl. 73-421.50r.
- Louise, Jean: See—
Petit, Roland; Louise, Jean; Parent, Jean-Claude; and Hay, Leon, 3,689,212.
- Louisville Bedding Company: See—
Forrester, Harold C.; and Tatum, Harold E., 3,698,335.
- Loukes, David G., to Pilkington Brothers Limited. Method of reshaping and ion-exchanging glass. 3,639,114, 2-1-72, Cl. 65-30.
- Loukes, David Gordon: See—
Edwards, Alan; and Loukes, David Gordon, 3,681,042.
- Loukes, David Gordon; and Maltman, William Ramsey, to Pilkington Brothers Limited. Method and apparatus for producing glass having a metallic surface finish. 3,632,322, 1-4-72, Cl. 65-30.
- Loukes, David Gordon; and Edwards, Alan, to Pilkington Brothers Limited. Coating of glass in float glass method and apparatus. 3,656,926, 4-18-72, Cl. 65-60.
- Loukes, David Gordon; and Edwards, Alan, to Pilkington Brothers Limited. Float glass manufacture apparatus. 3,658,504, 4-25-72, Cl. 65-182.
- Loukes, David Gordon; and Edwards, Alan, to Pilkington Brothers Limited. Production of float glass having an oxidized metal-modified surface. 3,674,453, 7-4-72, Cl. 65-30.000.
- Loukes, David Gordon; and Lawrenson, Jack, to Pilkington Brothers Limited. Treatment of hollow glass articles. 3,682,611, 8-8-72, Cl. 65-182.000.
- Louks, Robert A. Continuous-flow dryer for granular material. 3,634,949, 1-18-72, Cl. 34-174.
- Louks, Robert A. Process and apparatus for spreading granular material. 3,698,574, 10-17-72, Cl. 214-17.0cb.
- Loup, Jean-Pierre Olivier; Gutknecht, Jacques Emile; and Anthony, Anne-Marie, nee Barbier, to Agence Nationale de Valorisation de la Recherche (ANVAR). Method for measurement of partial pressures of a gaseous substance using a metallic compound of the gaseous substance. 3,676,771, 7-11-72, Cl. 324-33.000.
- Loupere, Andre: See—
Costa, Charles; Loupere, Andre; Monsel, Philippe; and Schmitt, Bertrand, 3,679,272.
- Lourandos, Marilyn Z.: See—
Tobey, Stephen W.; and Lourandos, Marilyn Z., 3,694,513.
- Lourie, Janice Richmond; and Woo, Lin S., to International Business Machines Corporation. Processing of multilayer weave design data. 3,634,827, 1-11-72, Cl. 340-172.5.
- Lourie, Janice Richmond. International Business Machines Corporation Method of identifying connected regions in a large segmented pattern. 3,644,935, 2-22-72, Cl. 444-1.
- Lourie Visual Etudes, Inc.: See—
Hanson, Harold E., 3,695,608.
- Louth, Howard P.: See—
Kicks, John C.; and Louth, Howard P., 3,706,953.
- Louth, Kenneth, to RCA Corporation. Video tape recorder synchronizing system. 3,654,387, 4-4-72, Cl. 178-6.6.
- Louth, Kenneth, to RCA Corporation. Device to keep a capstan in phase when switching modes. 3,654,398, 4-4-72, Cl. 179-100.2.
- Louthan, John D., to LTV Aerospace Corporation. Fire control system. 3,694,095, 9-26-72, Cl. 356-255.000.
- Louthan, Rector P., to Phillips Petroleum Company. Plasticized sulfur compositions. 3,674,525, 7-4-72, Cl. 106-287.0sc.
- Louthan, Rector P., to Phillips Petroleum Company. Plasticized sulfur compositions. 3,676,166, 7-11-72, Cl. 106-241.000.
- Louton, James C., Jr., to General Motors Corporation. Closure mounting means. 3,649,067, 3-14-72, Cl. 296-50.
- Louvar, James J.: See—
Sparks, Allen K.; and Louvar, James J., 3,694,374.
- Louvar, James J., to Universal Oil Products Company. Process for preparing acyloxy-cycloalkenes. 3,632,633, 1-4-72, Cl. 260-497.
- Louvel, Guy, to Compagnie Industrielle des Telecommunications. Housing for transistors having unsoldered connections for operating at very high frequencies. 3,673,470, 6-27-72, Cl. 317-234.00r.
- Louvel, Guy, to Compagnie Industrielle des Telecommunications. Slotted microstrip line for impedance matching having two stops to prevent ohmic contact between the movable reactive element and the center strip. 3,697,902, 10-10-72, Cl. 333-84.00m.
- Louwerens, Bernarus: See—
Goverde, Bastiaan Cornelis; Drost, Rijkent Hendrik; and Louwerens, Bernarus, 3,645,253.
- Loux, Harvey M.: See—
Fuchs, Julius J.; and Loux, Harvey M., 3,694,431.
- Loux, Harvey M., to Du Pont de Nemours, E. I., and Company. Herbicidal 3-(substituted ureido)-crotonamides and crotonates. 3,664,823, 5-23-72, Cl. 71-111.
- Louzos, Demetrios V.; and Mellors, Geoffrey W., to Union Carbide Corporation. Cathode material for solid state batteries. 3,655,453, 4-11-72, Cl. 136-121.
- Louzos, Demetrios V., to Union Carbide Corporation. Rechargeable alkaline galvanic cell and electrolyte therefor. 3,672,996, 6-27-72, Cl. 136-6.000.
- Louzos, Demetrios V., to Union Carbide Corporation. Nickel fibers useful for galvanic cell electrodes. 3,684,480, 8-15-72, Cl. 75-50r.
- Louzos, Demetrios V., to Union Carbide Corporation. Lead fibers useful for galvanic cell electrodes. 3,690,866, 9-12-72, Cl. 75-500.
- Louzos, Demetrios Vasilios, to Union Carbide Corporation. Solid state electrochemical cells. 3,653,968, 4-4-72, Cl. 136-83.
- Louzos, Demetrios V., to Union Carbide Corporation. Manganese fibers useful for galvanic cell electrodes. 3,685,983, 8-22-72, Cl. 175-50r.
- Lov, William L.; and Blood, Ned, to ILG Industries Inc. Method and apparatus for forming centrifugal fan housings. 3,653,116, 4-4-72, Cl. 29-243.52.
- Lovatt, William John, to Acme Marls Limited. Supporting structures for use in firing pottery. 3,681,817, 8-8-72, Cl. 25-153.000.
- Lovdahl, Robert A.: See—
Thomas, Vitas T.; and Lovdahl, Robert A., 3,687,016.
- Love, Addison N., to Brown, Harold, Company. Timing valves and fluid controllers. 3,653,393, 4-4-72, Cl. 137-102.
- Love, Charles E. Covering structure for vehicles. 3,667,802, 6-6-72, Cl. 296-98.000.
- Love, Dennis Anthony; Neal, David Patrick John; and Pidgeon, Eric, to Beecham Group Limited. Process for preparing α -carboxyl-benzylpenicillin. 3,641,001, 2-8-72, Cl. 260-239.1.
- Love, Doris, to Texaco Inc. Calcium alkylphenolate manufacture. 3,657,124, 4-18-72, Cl. 252-42.7.
- Love, Frank E.: See—
Wheeler, Roger M.; and Love, Frank E., 3,661,738.
- Love, Frank E., to National Lead Company. Continuous process and apparatus for electrolytic production of sodium metal from sodium salts. 3,640,801, 2-8-72, Cl. 204-68.

- Love, Gordon, to Silverson Machines Limited. Mixing devices. 3,632,227, 1-4-72, Cl. 415-211.
- Love, Gordon D. Mixing apparatus. 3,669,414, 6-13-72, Cl. 259-8,000.
- Love, J. E., Company: *See—*
Gradwohl, Donald R.; and Neal, Archie E., 3,703,060.
- Love, James H.: *See—*
Tegge, Bruce R.; Teiser, William L.; Love, James H.; and Rosenbaum, Barry M., 3,642,731.
- Love, James H., to Esso Research and Engineering Company. Novel process wherein monomers and diluent solvent are recovered from flashed effluent from the polymerization of ethylene, a C_3-C_{10} higher alpha olefin, and optionally a third monomer. 3,652,515, 3-28-72, Cl. 260-80.78.
- Love, Kenneth E., to Varian Associates. Cavity resonator having means for reducing leakage of R.F. energy at a covered access point. 3,662,139, 5-9-72, Cl. 219-10.55.
- Love, Norman Edward, to British Hovercraft Corporation Limited. Transporters. 3,662,853, 5-16-72, Cl. 180-121.000.
- Love, Robert G.: *See—*
Lorenzino, Paul; and Love, Robert G., 3,691,841.
- Love, Wesley. Thermomagnetic device. 3,664,881, 5-23-72, Cl. 136-205.000.
- Love, Winston A. Starting controller for electric motor. 3,657,619, 4-18-72, Cl. 318-221.
- Loveday, Harry W.; and Whittaker, Jack D., to Greenbank Engineering Company Limited. Machines for drying sheets of paper or like material. 3,685,167, 8-22-72, Cl. 34-66.000.
- Loveday, Thomas E., to Eastman Kodak Company. Cooled ultrasonic transducer. 3,694,675, 9-26-72, Cl. 310-8.900.
- Lovegren, Norman V.; Gray, Marie S.; and Feuge, Reuben O., to United States of America, Agriculture. Extended-surface dispersible hydrogenation catalyst and process for producing same. 3,663,479, 5-16-72, Cl. 252-429.
- Lovejoy, Inc.: *See—*
Patel, Raman A., 3,636,729.
- Lovelace, Byron K.: *See—*
Waters, Warren P.; and Lovelace, Byron K., 3,651,384.
- Lovelace, Joseph B.: *See—*
Nalley, Charles E.; and Lovelace, Joseph B., 3,655,353.
- Lovelace, Ralph E., to GTE Sylvania Incorporated. Video signalling processing apparatus. 3,639,780, 2-1-72, Cl. 307-235.
- Lovelace, Ralph E., to GTE Sylvania Incorporated. Video signalling processing apparatus. 3,639,786, 2-1-72, Cl. 307-303.
- Lovelace, Richard S., to National Bulk Carriers, Inc. Draghead with concentric hollow cylinders having alignable parts. 3,657,829, 4-25-72, Cl. 37-63.
- Loveland Industries, Inc.: *See—*
Mommer, Richard Paul, 3,682,653.
- Loveland, Malcolm W., to Atlas Pacific Engineering Company. Means for peeling pineapples. 3,638,696, 2-1-72, Cl. 146-6.
- Loveland, Malcolm W., to Atlas Pacific Engineering Company. Orifice structure having two different flow rates. 3,702,144, 11-7-72, Cl. 138-44.000.
- Loveland, Malcolm W.; and Singleton, Robert J., to Atlas Pacific Engineering Company. Apparatus for feeding conveyor from bulk supply. 3,704,041, 11-28-72, Cl. 302-14.000.
- Loveland, Winton: *See—*
Warshaw, Saul; Eisenberg, Arnold J.; and Loveland, Winton, 3,683,246.
- Loveless, Frederick C.; and Hartz, Roy E., to Uniroyal, Inc. Process for coupling living lithiopolymer. 3,668,279, 6-6-72, Cl. 260-879.
- Loveless, Frederick C.; and Miller, Don H., to Uniroyal, Inc. Catalyst and method for making EPDM having improved processability. 3,706,718, 12-19-72, Cl. 260-80.780.
- Loveless, Stanley M., to General Gas Light Company. Four-way valve with blocked center. 3,661,182, 5-9-72, Cl. 137-625.48.
- Loveless, Stanley M., to General Gas Light Company. Snap operator for pressure fluid valve. 3,665,813, 5-30-72, Cl. 92-30.
- Loveley, Joseph D., to American Standard, Inc. Air conditioner closet door construction. 3,653,431, 4-4-72, Cl. 165-53.
- Lovell, Calvin; and Sause, Henry William, to Searle, G. D., & Co. Quaternary phenothiazine sulfamate. 3,637,679, 1-25-72, Cl. 260-243.
- Lovell, Clarence A.: *See—*
Fleming, James Evans; Lovell, Clarence A.; and Bandle, James M., 3,665,468.
- Muroga, Ko; Okuda, Jiro; Shimasaki, Nobuhiko; Terashima, Toshio; Maruyama, Yasushi; Kancyasu, Hiroshi; Sohma, Kikuya; and Lovell, Clarence A., 3,649,767.
- Lovell, James Byron: *See—*
Magee, Richard Joseph; and Lovell, James Byron, 3,644,621.
- Lovell, John A., to Goodyear Tire & Rubber Company, The. Tire having polyurethane laminate thereon. 3,648,748, 3-14-72, Cl. 152-353.
- Lovell, Keith Victor: *See—*
Fydelor, Peter John; and Lovell, Keith Victor, 3,687,832.
- Lovell, Kenneth O., to Ralston Purina Company. Method of preparing a poultry product. 3,666,489, 5-30-72, Cl. 99-107.
- Lovell, Thomas W.: *See—*
Bidwell, Dennis P.; Davies, Douglas R.; Hanley, John T., Jr.; Hart, William K.; Henderson, Thomas A.; Lovell, Thomas W.; and Fogg, Lloyd C., 3,665,447.
- Lovelock, James E.: *See—*
United States of America, National Aeronautics and Space Administration, 3,662,604.
- Lovelock, James E.; Davies, Albert J.; and Ferris, Frank R., to Shell Oil Company. Method and apparatus for linearly measuring electron capture with an electron capture detector. 3,634,754, 1-11-72, Cl. 324-33.
- Lovelock, James E., to California Institute of Technology. Gas chromatograph interfacing system and method. 3,638,396, 2-1-72, Cl. 55-16.
- Lovelock, James E., to Pye Limited. Method and apparatus for controlling the flow of gases. 3,677,275, 7-18-72, Cl. 137-13.000.
- Lovelock, James E., to California Institute of Technology. Method and apparatus for analyzing gaseous chromatographic effluents. 3,690,835, 9-12-72, Cl. 23-232.00c.
- Lovelock, James E., to California Institute of Technology. Vapor phase detectors. 3,701,632, 10-31-72, Cl. 23-232.00e.
- Lovely, John D., to Electrohome Limited. Networks for setting up and adjusting the colour temperature of the picture reproduced by the picture tube of a colour television receiver. 3,705,259, 12-5-72, Cl. 178-5.40r.
- Lovely, Walter G.: *See—*
Hoyt, Charles T.; Haun, John W.; Hensel, Dwight L.; Hansen, Clarence M.; Lovely, Walter G.; and Bruhn, Hjalmar D., 3,671,077.
- Lovens Kemiske Fabrik Produktionsaktieselskab: *See—*
Feit, Peter Werner, 3,634,583.
- Frederiksen, Erling Knud; and Godtfredsen, Wagn Ole, 3,660,575.
- Frederiksen, Erling Knud; and Godtfredsen, Wagn Ole, 3,697,507.
- Frey, Hans-Hasso; and Liisberg, Sven, 3,674,787.
- Godtfredsen, Wagn Ole; and Bretting, Claus Aage Svendsgaard, 3,634,467.
- Godtfredsen, Wagn Ole, 3,655,658.
- Tvaermoese Nielsen; Frey, Hans-Hasso; and Feit, Peter Werner, 3,634,410.
- Loverdos-Stelakatos, Constantine. System absorbing shocks on vessel and improving its motion. 3,680,516, 8-1-72, Cl. 114-67.00r.
- Loveshaw Corporation: *See—*
Warshaw, Saul; Eisenberg, Arnold J.; and Loveland, Winton, 3,683,246.
- Lovett, Donald S., to McGraw-Edison Company. Weld support for welding apparatus. 3,673,373, 6-27-72, Cl. 219-74.
- Lovett, Gordon H.; and Rambin, Ronald E., to Monsanto Company. Purification of acrylonitrile by absorption, plural distillation and recycle of bottoms stream to the absorber. 3,636,067, 1-18-72, Cl. 260-465.3.
- Lovett, Gordon H.; and Rambin, Ronald E., to Monsanto Company. Purification of acrylonitrile by quenching, adsorption, distillation and recycle to the absorber. 3,636,068, 1-18-72, Cl. 260-465.3.
- Lovett, John R.: *See—*
Tyler, William E., III; and Lovett, John R., 3,687,954.
- Lovett, John R. Replaceable roller surface for conveyor and application techniques therefor. 3,705,455, 12-12-72, Cl. 29-234.000.
- Lovett, Maxwell J. Sawhorse with retractable legs. 3,700,072, 10-24-72, Cl. 182-155.
- Lovgren, Jeffrey L.: *See—*
Baumgartner, Richard J.; Lovgren, Jeffrey L.; and McCullough, John W., 3,662,341.
- Lovgren, Peter: *See—*
Zaki, Wahib Nassif; Coulomb, Jean Marie Louis; and Lovgren, Peter, 3,655,568.
- Lovich, John W.: *See—*
Sprick, Walter F.; Morse, Frank C.; Holzer, Alexander; Meller, Oscar W.; and Lovich, John W., 3,706,392.
- Loving, Frank A., Jr.: *See—*
Andrews, Adlay B.; Coursen, David L.; and Loving, Frank A., Jr., 3,656,585.
- Lovingham, Joseph J.; and Kircher, Hartmann J., III, to Thiokol Chemical Corporation. Rocket engine with thrust direction modifying devices. 3,636,710, 1-25-72, Cl. 60-231.
- Lovitz, David D., to Sterno Industries, Inc. Unitary filter and pump for home aquariums. 3,635,344, 1-18-72, Cl. 210-169.
- Lovitz, David D., to Sterno Industries, Inc. Shrimp hatchery. 3,678,899, 7-25-72, Cl. 119-2.000.
- Lovold, Kjell, to Norsk Spraeengstofindustri A/S. Process for the preparation of black powder. 3,660,546, 5-2-72, Cl. 264-3.
- Low, David N., to Du Pont de Nemours, E. I., and Company. Scrubbing of gases containing $TiCl_4$. 3,690,041, 9-12-72, Cl. 55-71.000.
- Low, George M.; Derr, Lloyd J.; and Tobias, Robert A. Thermal motor. 3,663,839, 5-16-72, Cl. 310-4.000.
- Low, John, III: *See—*
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- Lowder, Dale E.: *See—*
Nise, Wilfred C.; and Lowder, Dale E., 3,678,524.

- Lowdermilk, Marvin J.: *See—*
Boron, Joseph; and Lowdermilk, Marvin J., 3,685,359.
- Lowe & Fletcher Limited: *See—*
Watkins, John; and James, Reginald, 3,686,906.
- Lowe, Charles B., to Universal Oil Products Company. Leveling valve. 3,661,176, 5-9-72, Cl. 137-560.
- Lowe, Charles B., to Universal Oil Products Company. Vehicle seats. 3,669,400, 6-13-72, Cl. 248-400.000.
- Lowe, Derek: *See—*
Gaskell, Philip Hedley; and Lowe, Derek, 3,652,863.
- Lowe, Desmond, to National Research Development Corporation. Device for venting gases from a tank. 3,680,585, 8-1-72, Cl. 137-493.000.
- Lowe, Donald F.: *See—*
Spedden, Henry R.; Apps, John A.; and Lowe, Donald F., 3,669,651.
- Lowe, E. S., Company, Inc.: *See—*
Siegel, Herman M., 3,699,660.
- Lowe, Edison; and Durkee, Everett L., to United States of America, Agriculture. Concentrating liquid foods. 3,634,103, 1-11-72, Cl. 99-199.
- Lowe, James B.: *See—*
Fleming, Roger A.; Harlacher, William H.; Spalek, Raymond J.; and Lowe, James B., 3,658,981.
- Lowe, James U., Jr.: *See—*
Haiss, Hermann S.; and Lowe, James U., Jr., 3,700,636.
- Lowe, Leonard F., to Patterson-Kelley Co., Inc., The. Water heating system. 3,672,444, 6-27-72, Cl. 165-39.000.
- Lowe, Lyall. Car top camping shelter. 3,655,077, 4-11-72, Cl. 224-42.1.
- Lowe, Peter R., to Honeywell Inc. Cathode ray tube display apparatus with extended tube life. 3,700,955, 10-24-72, Cl. 315-20.000.
- Lowe, Peter Robert, to Honeywell Inc. Stabilized monostable delay multivibrator or one-shot apparatus. 3,646,370, 2-29-72, Cl. 307-273.
- Lowe, Richard L., to Aluminum Company of America. Alumina feeder. 3,681,229, 8-1-72, Cl. 204-243.00r.
- Lowe, Walter Max; and Squirrel, Frederick, to Thermo-Technical Development Limited. Gas tight isolators and valves. 3,698,429, 10-17-72, Cl. 137-601.000.
- Lowe, Warren, to Chevron Research Company. Sulfonate salts of alkyl succinimides. 3,634,241, 1-11-72, Cl. 252-33.
- Lowe, Warren, to Chevron Research Company. Alkali metal succinate compositions for lubricating oils. 3,666,662, 5-30-72, Cl. 252-33.6.
- Lowe, Warren, to Chevron Research Company. Amines as antiwear additives in marine cylinder oils. 3,697,426, 10-10-72, Cl. 252-42.700.
- Lowe, William L.: *See—*
Stern, Russell L.; and Lowe, William L., 3,641,551.
- Lowell Corporation: *See—*
Thomasian, Harvey A., 3,651,718.
- Lowell, Edgar L.; and Lipsky, Aaron H., to Tracy, John, Clinic. Teaching device. 3,648,388, 3-14-72, Cl. 35-9.
- Lowell, Lawrence Prentiss, Jr.: *See—*
Didchenko, Rostislav; and Lowell, Lawrence Prentiss, Jr., 3,661,503.
- Lowell Molding Corporation: *See—*
Forma, Anthony P., 3,651,527.
- Lowell, Philip S.: *See—*
Cassidy, Patrick E.; and Lowell, Philip S., 3,648,350.
- Lowen, Irving B.: *See—*
Cantor, Clarence; and Lowen, Irving B., 3,637,312.
- Lowen, Michael David; and Mountford, Alan Reginald, to Laing, John, Research & Development Limited. Laying of concrete kerbs, haunches and the like. 3,636,833, 1-25-72, Cl. 94-46.
- Lowenfeld, Rudolf: *See—*
Hertel, Hasso; Gehre, Kurt; Lowenfeld, Rudolf; and Kosubek, Uwe, 3,697,216.
- Lowenfeld, Rudolf; and Kosubek, Uwe, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for dyeing textile material of mixtures of polyester and cellulose fibres. 3,642,424, 2-15-72, Cl. 8-21.
- Lowenfeld, Rudolf; and Kaiser, Hans, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the dyeing of textile materials made from mixtures of polyester and cellulosic fibres. 3,679,350, 7-25-72, Cl. 8-21.00c.
- Lowenstein Dyes & Cosmetics, Inc.: *See—*
Tucker, Harold H.; and Schwartz, Irwin, 3,632,290.
- Lowenstein, M., & Sons, Inc.: *See—*
Hardwicke, James E.; Scheffler, Bernard; and Weisz, Herman S., 3,647,734.
- Hill, William P., 3,648,735.
- Weisz, Herman S.; Scheffler, Bernard; and Neely, Lester W., 3,644,140.
- Lowenthal, Serge: *See—*
Broussaud, Georges; and Lowenthal, Serge, 3,703,640.
- Lower, John H.; and Lagus, Peter, to Deneb Products Engineering. Billiard cue and cue tip assembly. 3,695,611, 10-3-72, Cl. 273-70.000.
- Lowery, Archie J., Sr. Marine towing shackle. 3,656,293, 4-18-72, Cl. 59-86.
- Lowery, George M. Method for controlling moisture in flour. 3,684,526, 8-15-72, Cl. 99-93.000.
- Lowery, James D., Jr.: *See—*
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- Lowery, James R. Lawn mower and edger mechanism. 3,693,334, 9-26-72, Cl. 56-16.900.
- Lowery, Mae H. Support stand. 3,638,814, 2-1-72, Cl. 211-177.
- Lowery, Ronald M.; and Summers, Daniel J., Jr., to Computest Corporation. Distortion analysis system and method. 3,700,808, 10-24-72, Cl. 178-69.00a.
- Lowery, William E., to Control Building Systems, Inc. External corner member. 3,691,711, 9-19-72, Cl. 52-282.000.
- Lowi, Alvin, Jr. Portable still with concentric vaporizing reservoir and collection chambers. 3,635,799, 1-18-72, Cl. 202-83.
- Lowicki, Norbert, to Grillo-Werke Aktiengesellschaft. Process and device for the distillative purification of metals, especially of zinc. 3,637,367, 1-25-72, Cl. 75-63.
- Lowicki, Norbert; and Teggers, Hans, to Grillo-Werke Aktiengesellschaft. Process for the directive removal of SO_2 from waste gas. 3,669,617, 6-13-72, Cl. 23-25.000.
- Lowman, Malden C., Jr., to Environmental Quality Engineering, Inc. Process for reducing detonation. 3,648,676, 3-14-72, Cl. 123-191.
- Lown, Milton, to Northeast Shoe Company. Construction for shoe, slipper or the like. 3,705,463, 12-12-72, Cl. 36-25.000.
- Lowndes Engineering Co., Inc.: *See—*
Waldron, David W., 3,702,306.
- Lownes, Irvin S., Jr.: *See—*
McPherson, Frank H.; Lownes, Irvin S., Jr.; and Richardson, Thomas L., 3,706,074.
- Lowrance Electronics Manufacturing Corporation: *See—*
Hoxsie, Frank E., 3,683,324.
- Lowrance, Thomas F. Apparatus for inserting sticks in articles. 3,691,608, 9-19-72, Cl. 29-211.00d.
- Lowrey, Wiley W. Fuel heating means. 3,658,041, 4-25-72, Cl. 123-122.00e.
- Lowry, Alan B.; Mathus, Gregory; and Staciokas, Leon, to Data Packaging Corporation and Digital Information Devices, Inc. Tape cartridge mechanism for computer. 3,677,497, 7-18-72, Cl. 242-199.000.
- Lowry, Alan B.; Mathus, Gregory; Morello, Herbert; and Miller, Robert J., 50% to Data Packaging Corporation and 50% to Digital Information Devices, Inc. Tape handling mechanism for computer. 3,697,014, 10-10-72, Cl. 242-182.000.
- Lowry, Jerald: *See—*
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- Lowry, Randy W. Removable wear plate for fifth wheel. 3,704,924, 12-5-72, Cl. 308-136.000.
- Lowry, Ray B.: *See—*
Crippa, Eugene R.; and Lowry, Ray B., 3,697,969.
- Lowry, Robert Arthur, Jr.; and Smith, Billy Eual, to Motorola, Inc. Method of forming ohmic contact for semiconducting devices. 3,702,787, 11-14-72, Cl. 117-213.000.
- Lowry, Terrell Nicholson, to Bell Telephone Laboratories, Incorporated. Piston mercury switch. 3,673,524, 6-27-72, Cl. 335-52.000.
- Lox Equipment Company: *See—*
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- Loxley, Ted A.; Webb, John M.; and Barber, Walter G., to Mellen, Edward J., Jr. Wafer boat. 3,640,398, 2-8-72, Cl. 211-41.
- Loxley, Ted A.; Webb, John M.; and Barber, Walter G., to Mellen, Edward J., Jr. Method of redrawing quartz glass rods. 3,652,248, 3-28-72, Cl. 65-108.
- Loy, Alfred; Paitchell, Harold; and Wysocki, Kazmier, said Loy and said Paitchell assors. to Wysocki, Kazmier. Sorter for aerosol valves and other closures having attached tubes or other similar configurations. 3,684,129, 8-15-72, Cl. 221-167.000.
- Loy, Fritz: *See—*
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- Loy, George W., to Scio Cabinet Company. Plastic laminating apparatus. 3,690,995, 9-12-72, Cl. 156-478.000.
- Loy, Henry Albert. Silt dredging apparatus drag scraper for dredging silt. 3,679,004, 7-25-72, Cl. 172-26.500.
- Loy, Myrna: *See—*
Huffman, Kenneth Robert; Ullman, Edwin Fisher; and Loy, Myrna, 3,654,283.
- Loyau, Guy: *See—*
Roiron, Jean-Pierre Louis; and Loyau, Guy, 3,691,341.
- Loyd, Calvin D.: *See—*
Engelking, Frederick S.; and Loyd, Calvin D., 3,695,641.
- Loyd, Calvin D., to Caterpillar Tractor Company. Split retainer for check valve springs. 3,693,235, 9-26-72, Cl. 29-412.000.
- Loyd, Calvin D., to Caterpillar Tractor Company. Method of friction welding. 3,694,896, 10-3-72, Cl. 29-420.300.
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- Loyd, Raymond E., to General Electric Company. Air conditioner mounting means. 3,680,258, 8-1-72, Cl. 49-168.000.

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Lozach, Gerard: See—
Soulie, Guy; and Lozach, Gerard, 3,692,108.

Soulie, Guy; and Lozach, Gerard, 3,697,104.

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Lozo, Frederick M., III: See—
Hollmann, Walter G.; and Lozo, Frederick M., III, 3,677,786.

Lozo, William, to BASF Wyandotte Corporation. Nonionic detergent compositions for cleaning polyester fabrics. 3,707,506, 12-26-72, Cl. 252-139.000.

LR Industries Limited: See—
Berry, Francis Douglas; and Blyther, Stanley Charles, 3,647,601.

LRC Research and Development Company, mesne: See—
Fitzgerald, Walter P., Jr., 3,640,879.

LTV Aerospace Corporation: See—
Askew, William J., 3,691,400.

Billingsley, James D., 3,690,233.

Duff, Dan P.; and VanVelzor, Joseph A. (said Duff assor. to), 3,650,707.

Henderson, Charles R., 3,681,528.

Hohman, Alvin E.; and Kennedy, William L., 3,639,135.

Koch, Werner G., 3,648,570.

Louthan, John D., 3,694,095.

Rembert, Russell S.; and Thomas, Gerald F., 3,649,724.

Thieroff, Keith L., 3,689,878.

Trim, James H., 3,670,244.

Von Bose, Robert J., 3,680,958.

Weil, William M., 3,698,811.

LTV Aerospace Corporation, mesne: See—
Giraud, Francois L., 3,699,896.

LTV Electrosystems, Inc.: See—
Austin, Frederick H.; Rogers, Jimmy D.; and Wormser, Joseph J., 3,706,038.

Bayles, Fred R., 3,683,749.

Bodenheimer, David W.; and Paschetag, Elbert W., Jr., 3,651,397.

Clendennen, Leo; and Smith, Charlie P., 3,692,069.

Conner, David C., 3,644,840.

Gluth, Norman P.; and Houghton, Richard A., 3,697,699.

Holmes, Lloyd H.; and Sundland, William D., 3,678,810.

Koch, Werner G.; and McCurley, Jack, 3,640,183.

Koch, Werner G.; Marchell, Robert H.; and Redmond, William G., 3,646,754.

McCurley, Jack, 3,680,672.

Redmond, William G., 3,679,956.

Redmond, William G., Jr., 3,679,156.

Usry, Joe D., 3,647,176.

LTV Electrosystems, Inc., mesne: See—
Pierce, John A., 3,696,424.

LTV Ling Altec, Inc.: See—
Kahn, Jay Dee C., 3,670,299.

Theodore, Charles, 3,660,690.

Theodore, Charles, 3,670,232.

Theodore, Charles, 3,670,276.

Lu Conic, Andrew: See—
Crow, Herman L.; Lu Conic, Andrew; Maloney, Patrick Martin; and Bluem, Gary Raymond, 3,643,048.

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Aday, Roy W., Jr.; and Lu, Maoyeh, 3,663,097.

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Jones, Derick; and Lu, Sun, 3,690,745.

Lu, Sun, to Texas Instruments, Incorporated. Multiple image systems. 3,656,849, 4-18-72, Cl. 355-46.

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Dillard, Weldon B., 3,646,824.

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Hopwood, John Joseph; Kershaw, Robert William; and Lubbock, Frederick John, 3,689,445.

Luber, Paul, to Sulzer Brothers Limited. Temple for looms. 3,672,407, 6-27-72, Cl. 139-295.000.

Luberoff, Benjamin J.: See—
Gelbein, Abraham P.; and Luberoff, Benjamin J., 3,681,015.

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Lubin, Rose: See—
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Phillips, Donald G.; and Lubonski, Robert J., 3,644,714.

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Lubowitz, Hyman R.: See—
Vaughan, Robert W.; and Lubowitz, Hyman R., 3,697,345.

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Lubrication Sciences, Inc.: See—
Nelson, Robert D., 3,632,368.

Nelson, Robert D., 3,644,133.

Lubrizol Corporation, The: See—
Abbott, Franklin Paul, 3,687,849.

Allen, John Wight, 3,655,556.

Coleman, Lester E., 3,632,566.

Coleman, Lester E., 3,647,875.

Coleman, Lester E., 3,651,140.

Coleman, Lester E., 3,666,730.

Coleman, Lester E., 3,702,300.

Coleman, Lester Earl, 3,663,573.

Dorer, Casper J., 3,687,905.

Dorer, Casper J., Jr., 3,658,494.

Dorer, Casper J., Jr., 3,658,495.

Farone, Eugene Richard, 3,701,754.

Gordon, Joseph; Kaufman, Paul R.; and Hoke, Donald I., 3,649,688.

Hoke, Donald I., 3,666,810.

Hoke, Donald Irvin, 3,686,306.

Hoke, Donald Irvin, 3,692,673.

Jennings, Thomas Charles, 3,647,745.

Kaufman, Paul Richard, 3,679,000.

Le Suer, William Monroe, 3,639,242.

Lesuer, William Monroe, 3,632,510.

Liao, Chien-Wei, 3,632,511.

Meinhardt, Norman A.; and Widmer, Robert, 3,697,428.

Miller, Clark Ober, 3,687,645.

Snee, Charles Thomas, 3,676,224.

Zalar, Frank V., 3,644,243.

Luby, Charles S.: See—
Chin, Jack; Luby, Charles S.; and Mills, Richard G., 3,649,452.

Luby, John J.: See—
Pemberton, Paul E.; and Luby, John J., 3,685,567.

Luby, John J.; and Pemberton, Paul E., to Overhead Door Corporation. Roll-type door. 3,640,332, 2-8-72, Cl. 160-133.

Luca, Vasile: See—
Gurgui, Constantine; Luca, Vasile; Eckardt, Andrei; and Ciulacu, Paraschiv, 3,705,830.

Lucas, Clyde M.: See—
Deming, Andrew F.; and Lucas, Clyde M., 3,696,680.

Lucas, Daniel R., Jr.: See—
Folson, Henry J.; Lucas, Daniel R., Jr.; Staats, William A.; and Tucker, James I., 3,691,669.

Lucas, Donald J.: See—
Loizides, Edward; Lucas, Donald J.; and Steigerwalt, George F., 3,643,226.

Lucas, Edward J.; and Lafrance, Jean C., to Avco Corporation. System for and method of levitating vehicles in a ground transportation system. 3,664,268, 5-23-72, Cl. 104-148.

Lucas, George A., to Goodyear Tire & Rubber Company, The. Dunage device. 3,667,625, 6-6-72, Cl. 214-10.50d.

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Lucas, Hilda Katie: See—
Lucas, Sydney, 3,679,278.

Lucas, Howard Robert: See—
DiLeone, Roland Ralph; and Lucas, Howard Robert, 3,634,325.

Lucas, Howard Robert, to American Cyanamid Company. Heat stabilization of polyimides formed from tetralin dianhydrides and diprimary diamines. 3,655,606, 4-11-72, Cl. 260-32.6.

Lucas, James M., to Aerojet-General Corporation. Preparation of uniform and storable fuel mixtures. 3,676,232, 7-11-72, Cl. 149-6.000.

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Lucas, Joseph, (Industries) Limited: See—
Allen, Brian Robert, 3,663,791.

Allport, Maurice James, 3,683,259.

Baker, Alfred Dickens, 3,638,069.

Baker, Alfred Dickens, 3,700,878.

Baldwin, John Granville, 3,651,535.

Barrington, Colin Arthur, 3,632,462.

Birtwistle, Harold, 3,634,820.

Bloom, Joseph Lewis, 3,653,300.

Bottoms, Harry Simister, 3,691,790.

Bowcott, Roy Price, 3,663,825.

Bowcott, Roy Price, 3,665,233.

Burrage, Robert Graham, 3,649,825.

Channing, Derek, 3,664,319.

Cheary, Walter Graham, 3,681,135.

Cheshire, Alan G., 3,652,016.

Cheshire, Alan Gillingham; and Place, Harold, 3,682,390.

Coffin, George, 3,704,418.

Cooksey, William Harold, 3,650,253.

Cooksey, William Harold, 3,668,339.

Cooksey, William Harold, 3,688,391.

Cooksey, William Harold, 3,694,905.

Cross, Dennis Rowland; and Stephens, Edward, 3,665,287.

Cryer, Edward, 3,643,622.

Cryer, Edward, 3,651,288.

Cryer, Edward, 3,670,116.

Finley, Gilbert Ralph, 3,686,706.

Foley, David, 3,643,051.

Foley, David, 3,662,850.

Foley, David, 3,706,866.

Freeman, Frank George, 3,657,971.

Freeman, Frank George, 3,663,125.

Freeman, Leslie Bernard, 3,650,109.

Gleeson, Robert Leonard, 3,632,907.

Gleeson, Robert Leonard, 3,663,778.

Gleeson, Robert Leonard, 3,706,133.

Haigh, Richard Wolliscroft, 3,689,756.

Hamernik, Edward L.; and Kawamoto, Frank T., 3,643,870.

Harris, Paul Anthony; and Phoenix, Lancelot, 3,665,903.

Harris, Paul Anthony, 3,670,229.

Heap, Alec John, 3,663,904.

Heap, Alec John, 3,683,133.

Heath, Ronald Alfred, 3,665,806.

Hicks, Harris Vernon; and Nolan, Roger William, 3,663,819.

Hicks, Harris Vernon; and Jones, Kenneth James, 3,673,421.

Hicks, Harris Vernon, 3,694,646.

Hicks, Harris Vernon, 3,697,803.

Hill, William Frank, 3,633,090.

Hill, William Frank, 3,689,883.

Hoare, John Edward, 3,653,039.

Hodgson, Duncan Barry; and Williams, Malcolm, 3,689,755.

Holt, William David, 3,644,744.

Holt, William David, 3,646,511.

Holt, William David, 3,649,841.

Holt, William David, 3,652,865.

Holt, William David, 3,652,869.

Holt, William David, 3,659,267.

Hufton, Raymond Evan; and Morgan, George Graham, 3,642,028.

Hughes, Ronald William; and Boyse, Alan, 3,699,941.

Ifield, Richard Joseph, 3,653,790.

Ifield, Richard Joseph, 3,662,546.

Ifield, Richard Joseph, 3,699,845.

Irons, Brian Pemberton Gyles, 3,664,693.

Ives, Andrew Peter, 3,665,384.

Ives, Andrew Peter, 3,683,197.

Johnson, Graham Francis, 3,683,623.

Jones, Richard Clive, 3,678,449.

Lawrence, Owen Napier; and Warne, Eugene Harold, 3,643,427.

Leighton, Peter Watson, 3,655,933.

Lewis, Keith, 3,662,129.

Martin, Anthony Eugene Joseph; and Baker, Bernard James, 3,660,975.

Martin, Anthony Eugene Joseph; Skinner, Robert Thomas John; and Baker, Bernard James, 3,662,495.

Martin, Anthony Eugene Joseph, 3,683,752.

Matthews, Benjamin William, 3,665,094.

Mellor, Walter, 3,638,030.

Mellor, Walter, 3,649,988.

Morris, John, 3,677,287.

Morris, John, 3,693,349.

Munby, Harry, 3,690,096.

Ormskirk, Leonard William Eyles, 3,690,098.

Parkes, Eric Bernard, 3,653,017.

Parkes, Eric Bernard, 3,656,155.

Pater, Edward Henry, 3,694,564.

Phoenix, Lancelot; and Taylor, Joseph David Foulkes, 3,662,118.

Place, Harold, 3,642,211.

Roberts, Maurice, 3,705,380.

Savory, Anthony James, 3,669,596.

Severn, Arthur Charles, 3,649,960.

Shaw, Jeffery Isaac, 3,678,342.

Skinner, Robert Thomas John, 3,665,951.

Smith, Trevor Stanley, 3,646,849.

Stowe, Brian, 3,670,118.

Thomas, David; and Seager, James Barry, 3,651,699.

Thompson, Michael Ainley, 3,639,783.

West, John Godfrey Wilson, 3,693,037.

Wilkinson, Norman, 3,659,067.

Wright, Maurice James, 3,665,501.

Young, Donald Allan, 3,678,448.

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Blatter, Herbert Morton; and Lucas, Robert Armistead, 3,657,438.
Blatter, Herbert Morton; and Lucas, Robert Armistead, 3,691,180.
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Frye, Kenneth G.; Lucas, Robert G.; and Rohosy, Soma M., 3,685,379.
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- Lucas, Robert S., to Purex Corporation, Ltd. Means for chlorinating swimming pools. 3,638,833, 2-1-72, Cl. 222-57.
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- Lucas, William J., to Sperry Rand Corporation. Headsup display with remote recorder. 3,666,346, 5-30-72, Cl. 350-19.
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Merker, Reuven; and Lucca, Salvatore, 3,655,532.
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Selker, Milton L.; Berdan, Betty L.; and Luce, Betty M., 3,644,105.
- Luce, David A.: *See—*
Clark, Melville, Jr.; and Luce, David A., 3,697,703.
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Sanders, Ray W.; Luce, David W.; and Quan, William, 3,705,986.
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Matthews, Benjamin H., 3,671,699.
Matthews, Benjamin H., 3,691,322.
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- Luciano, Ezio: *See—*
Nicola, Maurizio; and Luciano, Ezio, 3,660,831.
- Luciano, Robert A.: *See—*
Rigney, William R.; Luciano, Robert A.; and Tump, Dirk, 3,654,890.
- Lucid, Michael F.: *See—*
Koerner, Ernest L., Jr.; and Lucid, Michael F., 3,700,415.
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Hastings, Martin R.; and Luckock, Glenn W., 3,697,298.
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Cook, Richard Erwin; Fitzhugh, Donald Lewis; and Lucky, George Wilson, 3,694,123.
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Howard, Webster E., Jr.; Ludeke, Rudolf; and Stiles, Phillip J., 3,648,124.
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Lutzen, William C.; and Berry, Edward J., 3,640,104.
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United States of America, National Aeronautics and space Administration, 3,680,144.
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Reisner, David B.; Ludwig, Bernard J.; and Berger, Frank M., 3,681,350.
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Koppe, Herbert; Engelhardt, Albrecht; Ludwig, Gerhard; and Zeile, Karl, 3,637,852.
Koppe, Herbert; Engelhardt, Albrecht; Ludwig, Gerhard; and Zeile, Karl, 3,644,636.
Nehring, Rudolf; Hockele, Gunter; and Ludwig, Gerhard, 3,702,348.
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- Ludwig, Jerome H., to Synthetic Products Company. Organotin mercaptoacid esters and the method of preparation. 3,660,442, 5-2-72, Cl. 260-429.700.
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Kruger, Erwin, 3,692,454.
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Freerks, Conrad T.; and Luecke, Fred R., Jr., 3,668,814.
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Hylin, Tom M.; Kilby, Jack S.; Luecke, Gerald; and Toombs, Harold D., 3,698,082.

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Weinstein, Marvin J.; Luedemann, George M.; Wagman, Gerald H.; and Marquez, Joseph A., 3,632,750.
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Bennett, Raymond G.; and Luedi, Mark, 3,696,591.
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Silver, Robert Steven; and Luedicke, Eduard, 3,646,390.
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John, Harald; Luehdemann, Rolf; Rittinger, Wilhelm; Sliwka, Artur; and Saum, Walter, 3,660,016.
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Smith, James E.; Borgogno, Victor E.; and Luehr, Robert E., 3,684,875.
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Spinner, Georg; Luehring, Juergen; and Ahrens, Guenter, 3,654,577.
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Ty, Henry; and Luerken, Joseph, 3,704,179.
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Fleck, Raymond N.; Dvoracek, Louis M.; and Lueth, Paul F., 3,682,815.
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De Lorenzo, Richard G.; and Luff, Donald G., 3,680,767.
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White, Martin; and Luff, Peter Purnell, 3,686,022.
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Cresap, Wesley Louis; Fagan, Castle Hugh; and Lufkin, Martin Harrison, 3,652,185.
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Persson, Sixten Ismael, 3,691,931.
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Lemoine, Jacques; and Lugand, Paul, 3,693,353.
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Barassi, Carlo; Lugli, Giuseppe; and Mezzanotte, Mario, 3,656,533.
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Gualdi, Giorgio; Lugo, Luigi; and Reni, Cesare, 3,686,293.
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Cassen, Quentin C.; Luisi, James A.; and Salman, Naif D., 3,671,948.
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Wahl, Hans Heinz; Guminski, Alfons; and Lohmann, Gunther, 3,651,859.
- Luk Lamellan und Kupplungsbau GmbH: See—
Maucher, Paul, 3,684,070.
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Maucher, Paul; and Steeg, Klaus, 3,695,404.
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Schilling, Werner; and Lukas, Josef, 3,702,582.
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Mc Culler, James F., 3,697,639.
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Guttwein, Gunter K.; Ballato, Arthur D.; and Lukaszek, Theodore J., 3,694,677.
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Lodige, Wilhelm; Lodige, Fritz; Lucke, Josef; and Luke, Karlheinz, 3,666,240.
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Bintzer, William W., 3,674,903.
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- Scott, William W., Jr., 3,703,600.
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Hiatt, John C.; and Luker, John P., 3,686,372.

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- Luksas, Anthony J., to Beatrice Foods Co. Rapid production of a cheddar cheese flavored product. 3,689,286, 9-5-72, Cl. 99-115.000.
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- Lumb, Edwin T. Variable ratio transmission. 3,699,826, 10-24-72, Cl. 74-752.00e.
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- Lumbard, Fredrick W., to Stevens, Milton J., mesne. Combined fish-hook keeper and winding check. 3,665,635, 5-30-72, Cl. 43-25.200.
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Johansson, Ernst Lennart; Lumen, Karl Lennart Gosta; and Lundstrom, Hans Per Olof, 3,645,570.
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Calabrese, Ronald V., 3,671,142.
- Lumenition Limited: See—
Ford, Eric Harold, 3,682,150.
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Murcott, Charles E., 3,672,722.
- Lumidor Products Corporation: See—
Rogers, John J.; and Stratman, John A., 3,641,487.
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Chemerd, John M.; and Lumma, William C., 3,658,668.
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Banchik, Ira N.; Sze, Morgan C.; and Maddock, Maldwin J., 3,645,701.
- Cross, Alan, 3,667,429.
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- Feldman, Samuel I., 3,702,105.
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- Huibers, Derk Th. A.; and Waller, John J., 3,699,147.
- Kniel, Ludwig, 3,696,162.
- Mascio, Nicholas E.; and Burke, Robert F., 3,671,197.
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Bucher, Emil W., 3,654,039.
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Cranskens, Georg; Jakobson, Hans; Rathje, Armin; and Salger, Werner, 3,641,907.
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- Wendt, Rudolf, 3,637,376.
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Limberger, Jurgen, 3,641,322.
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Litt, Morton H.; Lund, Richard B.; Vitrone, John; and Herz, Jack L., 3,681,329.
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Johannisson, Dag Olof Alfred; and Lundberg, Gustaf Silas Staffan, 3,662,774.
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- Lundgren, Carl William, Jr., to Bell Telephone Laboratories, Incorporated. Communication satellite system. 3,706,037, 12-12-72, Cl. 325-4.000.
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Zinck-Petersen, Jorgen; and Lundqvist, Bertil, 3,670,175.
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- Lundquist, Burton R. Chilling consumer size food packages. 3,685,308, 8-22-72, Cl. 62-60.000.
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Landen, William James; and Lundquist, Gunnar, 3,675,265.
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Landen, William James; and Lundquist, Gunnar F., 3,698,770.
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Guyer, Reynolds W., Jr.; Cross, Norton M., Jr.; Griggs, Barbara Allen; and Lundquist, Martin A., 3,677,446.
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Kehr, Clifton L.; Wszolek, Walter R.; and Lundsager, Christian B., 3,660,217.
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Johansson, Ernst Lennart; Lumen, Karl Lennart Gosta; and Lundstrom, Hans Per Olof, 3,645,570.
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- Lundstrom, John, to Moisture Register Company. Apparatus for measuring dielectric constant. 3,684,952, 8-15-72, Cl. 324-61.0qs.
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Star, Joseph, 3,634,946.
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Florent, Jean; Lunel, Jean; and Renaut, Jacques, 3,703,439.
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Marshall, William A.; Lunkwicz, Bernard Paul; and Meresz, Henry, 3,638,636.
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Meyer, Walter H.; and Menger, William M., 3,666,605.
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Juroff, Lyle Bruce; and Lunn, Lawrence Mark, 3,648,135.
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Juroff, Lyle Bruce; and Lunn, Mark Lawrence, 3,691,444.
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Szina, Stephen S.; and Lunn, William H.W., 3,668,220.
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Hudspeth, Steve A.; and Lunsford, John B., 3,666,038.
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Hartley, David; Lunt, Lawrence Henry Charles; and Jack, David, 3,701,808.
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- Lunt, William G., to Rockwell Manufacturing Company. Stem or shaft seal. 3,682,490, 8-8-72, Cl. 277-102.000.
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Jack, David; Hartley, David; and Lunts, Lawrence Henry Charles, 3,689,524.
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Berry, Jack; and Luo, Zong-Shyong, 3,654,816.
- Luoma, John F.: *See—*
Zachary, Ralph K.; and Luoma, John F., 3,702,161.
- Luoma, Warren L.: *See—*
Emanuelson, Roger C.; and Luoma, Warren L., 3,634,569.
- Vine, Raymond W.; Watson, Paul R.; and Luoma, Warren L., 3,635,682.
- Luongo, Albert M.: *See—*
Dannewitz, Robert E.; and Luongo, Albert M., 3,647,187.
- Luperti, Harry E.: *See—*
Beck, Christian A.; and Luperti, Harry E., 3,660,203.
- Lupica, Sebastian B.: *See—*
Zittel, Herman E.; Lupica, Sebastian B.; and Bate, Lamont C., 3,691,084.
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Nakajo, Shogo; and Saito, Yoshitami, 3,645,776.
- Luras, Arne Widar. Drive means for an endless rope, especially for ski lifts. 3,664,205, 5-23-72, Cl. 74-224.000.
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Schoots, Peter J.; Brugmans, Johannes Thomas; and Hoogenhout, Klaas, 3,702,053.
- Lurey, Daniel M., to Simplicway Products Co. Firing means for a model rocket. 3,662,685, 5-16-72, Cl. 102-70.20r.
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Leduc, Joseph-Adrien M.; Lurie, Charles; Kronig, Walter; and Konrad, Peter, 3,701,719.
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Bartolini, Robert Alfred; and Lurie, Michael Jay, 3,632,869.
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- Lurie, Michael Jay. High resolution, redundant coherent wave imaging apparatus employing pinhole array. 3,689,129, 9-5-72, Cl. 350-3.500.
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Peetz, Hans Dieter; and Lurssen, Hermann, 3,634,654.
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Knoer, Peter; and Pieh, Gerhard, 3,644,179.
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- Luscher, Paul; Hudson, Ben A.; and Childers, Billie W., to PPG Industries, Inc. Method for texturizing yarns. 3,672,947, 6-27-72, Cl. 117-104.000.
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- Lush, John S., to Anchor Hocking Corporation. Crack-off apparatus for glass articles. 3,650,724, 3-21-72, Cl. 65-174.
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- Lusk, George E., to G & W Electric Specialty Company. Closed cell elastomeric sponge power cable terminator. 3,634,604, 1-11-72, Cl. 174-73.
- Lusk, Walter D., to TRW Inc. Hydrazine decomposition process using molybdenum-cobalt catalyst. 3,657,891, 4-25-72, Cl. 60-219.
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Hinkley, Clyde E.; and Lusk, William A., 3,691,984.
- Lusk, William J. Everset electric rodent trap. 3,638,348, 2-1-72, Cl. 43-75.
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Geiger, Friedhelm; Lussling, Theodor; Theissen, Ferdinand; and Weigert, Wolfgang, 3,687,621.
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Rivoire, Andre, 3,664,734.
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Jeff, William C.; Luyster, Thomas, Jr.; Lynch, James F., Jr.; and Moroli, Frank A., 3,677,794.
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Furlong, Donn B.; Luzaich, Samuel; and Forchini, James F., 3,647,317.
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Sletzinger, Meyer; Karady, Sandor; Ly, Manuel G.; and Pines, Seemon H., 3,676,480.
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Voronin, Grigory Ivanovich; Vzorov, Mikhail Ivanovich; Karaski, Ilya Lvovich; Lyagushkin, Jury Dmitrievich; Perepletchikov, Leonid Yakovlevich; Khokhlova, Nina Dmitrievna; and Petrov, Jury Mikhailovich, 3,650,197.
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Shroyer, Larry L., 3,706,066.
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Hall, George Roberts; and Lyall, Robert Alexander, 3,636,748.
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Feuillat, Pierre; and Lyard, Joseph, 3,644,006.
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Lersmacher, Bernd; Lydlin, Hans Jurgen; and Wilden, Rolf Josef, 3,692,565.
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Hollox, Graham E.; Precht, Walter; Lye, Robert G.; and Westwood, Albert R. C., 3,661,599.
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Cattermole, George R.; Cummings, Austin M.; and Lyerly, William M., 3,674,578.
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Angeleri, Emanuele; and Lyghounis, Evangelo, 3,659,046.
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Herman, Elvin E.; Lym, Vernon W.; and McCord, Henry L., 3,703,005.
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Haase, Wallace H.; Lyman, Albie Alton, Jr.; and Painter, Daniel W., II, 3,638,174.
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Smith, Ernest L.; Duffy, Arthur R.; and Lyman, Eugene S., 3,669,816.
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Rautenbach, Robert; Lutzeyer, Wolfgang; Werner, Udo; Lymberopoulos, Stravros; and Zimmerman, Hubert, 3,662,755.
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Lehner, Robert M., 3,665,793.
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Chattoraj, Shib C.; Lynch, Charles T.; and Mazdiyasni, Khodabakhsh, 3,634,477.
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Nordling, Frederik, 3,633,045.
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Bryant, Stanley Charles; and Mohlenrich, Kenneth H., 3,654,165.
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Ferguson, Donald C.; Lynch, Frederick W.; and Simons, Gerald F., 3,643,146.
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Jeff, William C.; Luyster, Thomas, Jr.; Lynch, James F., Jr.; and Moroli, Frank A., 3,677,794.
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Uhtenwoldt, Herbert R.; and Lynch, James M., 3,688,447.
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Hanley, James O.; and Lynch, Michael J., 3,633,748.
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Brotherton, Thomas K.; Lynn, John W.; and Knopf, Robert J., 3,677,983.
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Makowski, Henry S.; Lynn, Merrill; and Jaruzelski, John J., 3,652,732.
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Woodrow, James R.; and Lynski, Robert R., 3,701,466.
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Caparone, Michael J.; Dykzeul, Theodore J.; Lynwood, Edward B.; and Braucknick, Henry C., 3,685,541.
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Jacovides, Linos J.; Lyon, David M.; and Fisher, Richard M., 3,705,971.
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Frodsham, Vaughn D., 3,648,369.
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Ross, Louis E.; Lyon, John K.; and Paolucci, Julius J., 3,646,967.
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Grombka, Walter J.; and Lyon, Lloyd B., 3,651,920.
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Lindboe, Clifford L., 3,690,460.
- Lyon, Ross W.: *See*—
Lindboe, Clifford L., 3,690,460.
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Cahill, Bonaventure B.; and Lyon, Wilfred W., 3,665,199.
Cahill, Bonaventure B.; and Lyon, Wilfred W., 3,668,399.
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Clarke, Fredric B.; and Lyons, John W., 3,669,893.
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Vilf, Fernando Zhozevich; and Lysenko, Alexandr Pavlovich, 3,660,733.
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Graifer, Valery Isaakovich; Komarov, Alexandr Ivanovich; Lysenko, Vladimir Dmitrievich; Mingareev, Ravkhat Shagimardanovich; and Mukharsky, Enver Davydovich, 3,664,418.
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Gruber, Thomas J.; and Lyth, William W., 3,656,140.
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Glenn, David A.; and Lytle, David N., 3,689,892.
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Blair, Darrell J., 3,656,136.
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Monaghan, Frank, 3,700,529.
- M & J Valve Company: *See*—
Grove, Marvin H.; and Van Arsdale, Lyle R., 3,638,475.
Grove, Marvin H., 3,638,908.
Grove, Marvin H.; Kim, Kee W.; and Van Arsdale, Lyle R., 3,641,542.
Grove, Marvin H.; and Kim, Kee W., 3,656,498.
Grove, Marvin H.; and Van Arsdale, Lyle R., 3,664,356.
Grove, Marvin H.; and Van Arsdale, Lyle R., 3,668,923.
Ottenstein, Sidney Allan, 3,665,945.
- M & N Developers, Incorporated: *See*—
Moore, Emanuel M., 3,698,751.
- M & T Chemicals (Australia) Pty., Limited: *See*—
Graham, Dell Derek Paul, 3,702,360.
- M & T Chemicals Inc.: *See*—
Ackerman, Hervey W., Jr., 3,693,020.
Aoun, Fred, 3,654,101.
Beasley, Jack O.; and Mohary, Paul J., 3,668,506.
Bedi, Ram Dev; and Aoun, Fred, 3,634,217.
Bedi, Ram Dev, 3,702,809.
Chessin, Hyman, 3,632,499.
Chessin, Hyman; and Gempel, Robert Francis, 3,657,079.
Chessin, Hyman, 3,657,080.
Chessin, Hyman, 3,679,381.
Considine, William J.; and Seltzer, Raymond, 3,686,196.
Debrezeni, Eugene J.; and Kushlefsky, Bernard G., 3,699,138.
Eppensteiner, Frederick Walter, 3,669,776.
Eppensteiner, Frederick Walter; and Woehle, Richard E., 3,691,049.
Faust, Elbert R., 3,699,985.
Gitlitz, Melvin Hyman, 3,706,774.
Gloskey, Carl R., 3,681,272.
Gloskey, Carl Robert, 3,640,947.
Gloskey, Carl Robert, 3,657,294.
Harbulak, Edward P., 3,669,854.
Kardos, Otto; Arcilesi, Donald Allan; Tomson, Arthur James; and Valayil, Sylvester Paul, 3,682,788.
Kushlefsky, Bernard G., 3,660,350.
Passal, Frank, 3,658,820.
Passal, Frank, 3,677,912.
Passal, Frank, 3,677,913.
Passal, Frank; and Tomson, Arthur J., 3,678,055.
Passal, Frank, 3,681,378.
Passal, Frank, 3,686,239.
Passal, Frank, 3,697,391.
Reifenberg, Gerald H.; and Considine, William J., 3,647,833.
Reifenberg, Gerald H.; and Considine, William J., 3,652,618.
Reifenberg, Gerald H.; and Considine, William J., 3,654,367.
Reifenberg, Gerald H.; and Considine, William J., 3,673,230.
Seltzer, Raymond, 3,634,442.
Seyb, Edgar J., Jr., 3,634,211.
Treadwell, Kenneth, 3,635,821.
Valayil, Sylvester Paul; and Passal, Frank, 3,634,212.
Ventura, John J.; and Natoli, Joseph G., 3,642,702.
Waggoner, Terry Bill; and Seyb, Edgar John, Jr., 3,639,153.
Wowk, Anatole, 3,655,613.
Wowk, Anatole, 3,665,025.
- M. D. Industries, Inc.: *See*—
Berliner, Julius F. T., 3,661,695.
- M. G. Dynamics, Inc.: *See*—
Mousette, Oliver, 3,644,685.
- M. I. Sales Co., Inc.: *See*—
Halpern, Arthur, 3,675,364.
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Brekke, Oliver R., 3,641,970.
- M&T Products of Canada Limited: *See*—
Goulden, Peter Derrick, 3,642,647.
- M-O Valve Company Limited, The: *See*—
Baker, Basil Offor, 3,636,407.
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Moran, Jack; Stevenson, Boyd; and Reynolds, William A., 3,683,102.
- M-R-S Manufacturing Company: *See*—
Scott, Thomas H., 3,680,234.
- M-Tron Industries Inc.: *See*—

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Marason, Gabriel, Jr.; Ma, Austin C.; and Osborne, Brian G., 3,701,215.
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Barker, Richard G.; and Ma, James L., 3,653,824.
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Jurado, Alberto; and Ma Puigmarti, Jose, 3,658,989.
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Wahba, Issac J.; Padmos, Daniel F.; and Ma, Shao-Mu, 3,653,917.
- Ma-Tran Corporation: *See*—
Huffaker, Walter D., 3,671,079.
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Keith, Donald George; Maack, Horst Egon Fred Ludwig; and Morris, Douglas Barrett, 3,695,959.
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Gubelmann, Walter, 3,688,365.
Haupt, Fritz, 3,704,968.
Wydler, Robert, 3,640,650.
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Krall, Heribert; Maag, Helmut; Herrmann, Otto; and Posl, Rudolf, 3,669,176.
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Johnston, David B. R.; Maag, Theodore A.; and Shen, Tsung-Ying, 3,689,671.
Shen, Tsung-Ying; and Maag, Theodore A., 3,657,428.
Shen, Tsung-Ying; Johnston, David B. R.; and Maag, Theodore A., 3,702,362.
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Vaughn, George A.; and Hargrave, Richard D., 3,702,701.
- Maas, Dieter: *See*—
Engelsmann, Dieter; Maas, Dieter; and Zattler, Kurt, 3,657,984.
Engelsmann, Dieter; Maas, Dieter; Schroder, Rolf; and Linke, Gerda, 3,667,366.
Schmierl, Richard; and Maas, Dieter, 3,662,663.
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Schildknecht, Herman; and Maas, Klaus, 3,660,043.
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de Lange, Willem; Duyfjes, Werner; and Maas, Willem, 3,679,797.
Duyfjes, Werner; and Maas, Willem, 3,686,419.
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Timmins, Arthur G., 3,633,967.
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Erb, Edward R.; and Maass, Richard L., 3,655,312.
- Maassen, Ralph; and Pollock, Alex. Method of attaching a hairpiece. 3,662,766, 5-16-72, Cl. 132-5.
- Maassen, Wilhelm: *See*—
Pesch, Albert Tho; and Maassen, Wilhelm, 3,695,522.
- Maatman, Russell W.: *See*—
Frilette, Vincent J.; and Maatman, Russell W., 3,650,990.
- Maatschoppij Van Berkel's Patent N. V.: *See*—
Eliasberg, Joseph, 3,662,511.
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Schwebel, Adolf, 3,702,698.
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Mabuchi, Kenichi; and Tsuchimochi, Yoshihisa, 3,696,558.
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- Mabuchi, Shunsuke: *See*—
Kisaki, Hisashi; Mabuchi, Shunsuke; and Mizuno, Toshikatsu, 3,694,465.
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Lansinger, Jere R.; and Mac Afee, James E., 3,632,220.
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Lynd, Langtry E.; Nilsen, Arnold; and Mac Cardle, Louis E., 3,681,047.
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Grunwald, John J.; D'Ottavio, Eugene D.; and Kuzmik, John J., 3,632,388.
Grunwald, John J.; and D'Ottavio, Eugene D., 3,647,512.
- Mac Donald, Alastair Rigg. Window ventilators. 3,659,516, 5-2-72, Cl. 98-2.12.
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Fraser, William Milton; Cairns, Walter John; and Mac Donald, Ian Norman, 3,671,149.
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Klein, Donald L.; Mac Intyre, Michael W.; and Rothman, Lawrence J., 3,669,669.
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Rhoads, Delmar D.; and Mac Kay, Robert H., 3,641,263.
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Blumbergs, John H.; and Mac Kellar, Donald G., 3,684,477.
- Mac Kenzie, Alfred K., to Dennison Manufacturing Company. Development of electrostatic images. 3,682,542, 8-8-72, Cl. 355-10.000.
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Westbrook, Aubrey Joseph; Mac Knight, Ian David; and Thomson, Irvine, 3,689,191.
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Dudley, Kenneth W.; and Mac Master, George H., 3,646,388.
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Admiraal, Lambertus, 3,670,133.

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- Cohen, Margalit; and Mac Phee, Kenneth E., 3,664,974.
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- Macalalad, Fidel V.: See—
- Donahoe, Joseph F.; and Macalalad, Fidel V., 3,693,612.
- Katerndahl, Dean R.; Wilson, Earl D.; Macalalad, Fidel V.; and Ring, Gene C., 3,698,396.
- Macalalad, Fidel Villaluna: See—
- Chittenden, Richard Marion; Whitton, Alden William; Macalalad, Fidel Villaluna; Massman, Richard; and Wilson, Earl David, 3,690,315.
- Macall, Thomas F., to Midland Capital Corporation, mesne. Solid state scanning system. 3,665,196, 5-23-72, Cl. 250-83.3.
- Macaluso, Felix: See—
- Beveridge, Robert W.; and Macaluso, Felix, 3,665,164.
- Macaluso, Sebastian B.: See—
- Catterfeld, Fritz C.; Macaluso, Sebastian B.; and Weber, Lawrence D., 3,695,367.
- MacArthur, Guy, to Cherry Electrical Products Corporation. Electronic keyboard input circuit. 3,662,378, 5-9-72, Cl. 340-347.
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- Macaulay, William R.: See—
- Bergum, Bernard C.; Bilhorn, John M.; Kenyon, Kenneth H.; Macaulay, William R.; and Youngquist, John A., 3,694,266.
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- Maccarone, Michael B.: See—
- Grotz, Norman; and Maccarone, Michael B., 3,698,595.
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- MacClose, Joe: See—
- Rogers, Frank J.; and MacClose, Joe, 3,654,008.
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- Elliott, James Kelly; and Crawford, Douglas W., 3,646,953.
- MacColl, Donald; and O'Pray, Hugh, to Imperial Chemical Industries Limited. Electrical heating sheet with series of eyelets connections. 3,691,349, 9-12-72, Cl. 219-549.000.
- MacCormac, James Kenneth Maxwell: See—
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- MacCracken, Calvin D., to Calmac Manufacturing Corporation. Apparatus for preparing and maintaining ice skating rinks. 3,636,725, 1-25-72, Cl. 62-235.
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- Krokos, Raymond M.; and MacCurdy, William K., 3,691,963.
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- D'Ottavio, Eugene D., 3,650,859.
- D'Ottavio, Eugene D., 3,650,913.
- Grunwald, John J.; and Horner, Edmund E., 3,634,262.
- Grunwald, John J.; Rhodenizer, Harold L.; and Slominski, Leo J., 3,694,250.
- Kuzmik, John J., 3,698,919.
- Larson, Gary B., 3,647,568.
- Mersereau, Mark; Rohdenizer, Harold L.; Grunwald, John J.; and Innes, William P., 3,698,940.
- Rhodenizer, Harold L.; Grunwald, John J.; and Innes, William P., 3,666,549.
- MacDonald, Albert J.: See—
- MacDonald, Ronald F., 3,694,122.
- MacDonald, Alexander, Jr.: See—
- Hoffer, Max; and MacDonald, Alexander, Jr., 3,652,579.
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- Elliott, Daniel R.; Francois, Edgar; and MacDonald, Donald C., 3,637,446.
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- MacFarlane, Donald B.; and Rathka, Gary T., to Standard Pressed Steel Co. Prevailing torque fastener. 3,661,194, 5-9-72, Cl. 151-22.
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- Wilson, Joseph, 3,665,736.
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- Mitchener, Gary R., 3,686,135.
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- Mach, George J.: See—
- Goslin, Gerald E.; Herschberger, Russell R.; and Mach, George J., 3,667,718.
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- Machacek, Jiri: See—
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- Machado, Joseph G. High pressure hot water cleaner. 3,645,420, 2-29-72, Cl. 222-23.
- Machatzke, Heinz; and Singer, Josef, to Farbenfabriken Bayer Aktiengesellschaft. Anthraquinone dyestuffs. 3,682,978, 8-8-72, Cl. 260-372.000.
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- Macher, Karl, to Schneider, Jos., & Co., Optische Werke Kreuznach. High-speed varifocal objective system with five-lens basic objective. 3,707,324, 12-26-72, Cl. 350-184.000.
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- Bugg, Charles H., 3,653,340.
- Machinery and Gears Hansen: See—
- Hensen, David, 3,673,885.
- Machines Automatiques Modernes: See—
- Hermieu, Max R. L., 3,664,752.
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- Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfrid, 3,661,903.
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- Reuter, Wolfgang; Kutter, Eberhard; Sauter, Robert; Machleidt, Hans; and Wildfeuer, Alexander, 3,655,685.
- Schmidt, Gunther; Engelhorn, Robert; Leitold, Matyas; and Machleidt, Hans, 3,634,408.
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- Braun, Martin; Grossel, Stanley S.; and Singer, Barry M., 3,697,795.

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Gordon, Jeffrey L., 3,665,247.
Holland, William P.; and Azud, Robert E., 3,699,373.
Kessler, Gordon R., 3,634,870.
Kirkendall, Thomas D., 3,679,927.
MacLachlan, Robert K.; and Chambers, Derek, 3,683,191.
Sholl, Herbert L., 3,641,387.
Machlin, Lawrence J.: *See—*
Wharton, Ferdinand D.; Johnson, John H.; Fields, Joseph E.; and Machlin, Lawrence J., 3,655,869.
Machnac, Joseph H. Page turner for sheet music and the like. 3,665,093, 5-23-72, Cl. 84-487,000.
Machner, Peter: *See—*
Holzgruber, Wolfgang; and Machner, Peter, 3,652,773.
Machol, Guenther K.: *See—*
Royse, David; and Machol, Guenther K., 3,653,066.
Machol, Richard Erving, Jr.: *See—*
Hunter, Paul Douglas; and Machol, Richard Erving, Jr., 3,701,096.
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Machulsky, Petr Alexeevich: *See—*
Gerchenova, Nina Andreevna; Gurvich, Lev Moiseevich; Zelen-skaya, Olga Ivanovna; Koretsky, Alexandr Filippovich; Machulsky, Petr Alexeevich; Nesterova, Maria Petrovna; Selifanova, Evdokia Prokofievna; Taubman, Arkady Borisovich; and Furueva, Ekaterina, 3,68,099.
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Wiesler, Mordechai; and Macintyre, John S., 3,668,044.
Wiesler, Mordechai; Martinonis, Virgil; and Macintyre, John S., 3,695,414.
Wiesler, Mordechai; Martinonis, Virgil; and Macintyre, John S., 3,702,923.
Macintyre, Steven A.: *See—*
Greenberg, Myron M.; and Macintyre, Steven A., 3,697,869.
Macione, Jack F.: *See—*
Palumbo, Nunzio J.; and Macione, Jack F., 3,664,276.
MacIsaac, John T., Jr.: *See—*
Troy, James E.; and MacIsaac, John T., Jr., 3,636,988.
MacIver, Bernard A., to General Motors Corporation. Hybrid solid-state voltage variable tuning capacitor. 3,648,340, 3-14-72, Cl. 29-25,42.
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Franklin, William E.; Mack, Charles H.; and Rowland, Stanley P., 3,632,298.
Mack, Edward J.; and Childs, Harris T., Jr., to Dixon Corporation. Bearing compositions. 3,652,409, 3-28-72, Cl. 252-12.
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Mack, James M.: *See—*
Podiak, Richard S.; Mack, James M.; and Bretsch, Michael A., 3,668,749.
Mack, Malcolm: *See—*
Watson, William Alexander; and Mack, Malcolm, 3,635,099.
Mack, Michael E., to United Aircraft Corporation. Superradiant traveling-wave dye laser. 3,675,151, 7-4-72, Cl. 331-94,500.
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Kleiman, Joseph P.; and Mack, Robert L., 3,658,506.
Mack, Ronald H.: *See—*
Kondur, Nicholas, Jr.; and Mack, Ronald H., 3,693,545.
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Mack, Ronald H.; Wilczewski, Robert H.; and Kondur, Nicholas, Jr., to Burroughs Corporation. Reciprocally engageable clutch mechanism. 3,703,948, 11-28-72, Cl. 192-33,00r.
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Mack Trucks, Inc.: *See—*
Alexander, Willis; and Shaltis, Robert J. (said Alexander assor. to), 3,645,402.
Greathouse, Jack F., 3,667,432.
Pelizzoni, Winton J., 3,650,251.
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Trump, Norman M., 3,695,698.
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Taylor, Richard R.; and MacKay, Frank A., 3,702,002.
MacKay, Frederick G.; and Stratman, Jerome F., to Toppan Company, The. Modular shell for disposers and the like. 3,648,878, 3-14-72, Cl. 220-4.
MacKay, John K.: *See—*
Lin, Kings C.; Quinn, Edward J.; and MacKay, John K., 3,642,585.
Quinn, Edward J.; and MacKay, John K., 3,642,584.
MacKay, Joseph H., Jr., to Norton Company, mesne. Abrasive finishing article. 3,667,169, 6-6-72, Cl. 51-379.
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Castrantas, Harry M.; Keay, Robert E.; and MacKellar, Donald G., 3,677,955.
Keay, Robert E.; Castrantas, Harry M.; and MacKellar, Donald G., 3,635,667.
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MacKenzie, Gordon C.: *See—*
Rattman, William J.; Wasson, Frank R., Jr.; and Mackenzie, Gordon C., 3,669,540.
MacKenzie, James Alexander. Shelving components. 3,643,607, 2-22-72, Cl. 108-111.
MacKenzie, John C., to United States of America, Navy, mesne. Method for preparing solid films. 3,660,155, 5-2-72, Cl. 117-201.
MacKenzie, John D.: *See—*
Hammel, Joseph J.; and Mackenzie, John D., 3,650,721.
MacKenzie, John D.; and Klemm, Edwin O., to Pegless Cribbage Board Company. Game counter. 3,651,313, 3-21-72, Cl. 235-112.
MacKenzie, Joseph H., Jr. Wire termination block construction. 3,670,296, 6-13-72, Cl. 339-198,00g.
MacKenzie, Raymond W.: *See—*
Kennedy, Paul G.; and Mackenzie, Raymond W., 3,659,042.
MacKenzie, Robert A. Draw forming. 3,677,057, 7-18-72, Cl. 72-305,000.
MacKenzie, Robert D.: *See—*

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Mackerie, Julius, to Ustav pro Vyzkum Motorovych Vozidel. Drive wheel of vehicle. 3,642,082, 2-15-72, Cl. 180-8.
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Mackey, Charles L., to Trio Machine and Manufacturing Company, Inc. Hand truck. 3,647,238, 3-7-72, Cl. 280-47,29.
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Mackey, Edward F.: *See—*
Quillinan, John H.; and Mackey, Edward F., 3,699,341.
Mackey, Richard C.; and Neill, W. James, to Acoustifone Corporation. Sound tube headset. 3,667,569, 6-6-72, Cl. 181-31.
Mackie, James, & Sons Limited: *See—*
Mackie, John K. P., 3,643,415.
Mackie, John K. P., to Mackie, James, & Sons Limited. Flyers. 3,643,415, 2-22-72, Cl. 57-117.
Mackie, Kenneth. Sound producing fishing lure. 3,693,279, 9-26-72, Cl. 43-42,600.
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Kao, Chih-Yu; Kurth, Carl Ferdinand; and Maclean, Roderick Campbell, 3,633,129.
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Grube, William L., 3,693,237.
Grube, William L., 3,704,507.
Hlinsky, Emil J., 3,633,937.
Schwiebert, Phillip D.; and Steck, Edward S., 3,667,401.
Macleay, Ronald Edward: *See—*
Sheppard, Chester Stephen; and Macleay, Ronald Edward, 3,644,406.
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Macleish, William T.: *See—*
Brenneman, Richard S.; Clancy, John J.; Macleish, William T.; and Wells, Robert C., 3,637,431.
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Kuhns, Roger J.; and MacLeod, Bruce H., 3,666,603.
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Smith, George Armstrong; and MacLeod, Donald Simon, 3,673,062.
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Procter, Alan R., 3,639,484.
Worster, Hans Edmund; and Pudek, Marian Franciszek, 3,695,994.
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Platt, Thomas W.; and MacMorran, Robert D., 3,634,896.
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- Pere, Carlo; Tornich, Fulvio; and Macor, Tranquillo, 3,689,042.
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- Starita, Joseph M.; and Macosko, Christopher W., 3,693,425.
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- Lepselter, Martin P.; and MacRae, Alfred U., 3,652,908.
- Macrander, Karl, to Fried. Krupp Gesellschaft mit beschränkter Haftung. Device for transloading floating containers. 3,661,279, 5-9-72, Cl. 214-15.
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- Dutera, Robert B.; and Macshane, Gordon H., 3,643,061.
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- Grubb, Willard T.; and Macur, Robert Anthony, 3,701,687.
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- Wegerhoff, Arno; Schmitz, Franz-Josef; and Macura, Carl, 3,634,117.
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- Satterthwaite, James Glenn; and Macy, James B., Jr., 3,689,082.
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- Hanbicki, Richard B., 3,703,629.
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- Madden, John J., 3,693,618.
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- Giles, Walter W.; and Madden, Norman W., 3,691,342.
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- Madden, Thomas J., Jr.: See—
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- Madden, William F.: See—
- Forance, Ronald B.; Madden, William F.; and Gaucher, Clair H., 3,679,125.
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- Munn, David E.; and Maddestra, Robert, 3,678,310.
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- Maddock, Maldwin J.: See—
- Banchik, Ira N.; Sze, Morgan C.; and Maddock, Maldwin J., 3,645,701.
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- Dorn, Rolf K.; Maddock, Maldwin J.; and Guerrieri, Salvatore A., 3,663,645.
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- Asar, Madhu P.; Bolin, John E.; and Maddox, Harry L., 3,644,661.
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- Kratschmar, Herwig; and Madelung, Gero Otto, 3,645,477.
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- Wanner, Rudolf; Mader, Berthold; and Mayr, Theodor, 3,633,718.
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- Lange, Joachim; Malitschek, Otto; and Mader, Fred, 3,666,500.
- Mader, George E.: See—
- Harris, Paul E.; and Mader, George E., 3,680,098.
- Mader, Helmut: See—
- Hupp, Gerhard; and Mader, Helmut, 3,650,177.
- Kunitz, Friedrich Wilhelm; Mader, Helmut; and Otto, Rigobert, 3,632,347.
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- Mader, Horst Heinrich Georg, to Atlas Copco Aktiebolag. Pipe wrench. 3,698,266, 10-17-72, Cl. 81-53.00a.
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- Madin, Andre: See—
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- Madison, Norman L.: See—
- Guilmette, F. Peter; and Madison, Norman L., 3,655,733.
- Madison, Richard Keith: See—
- Mohan, Arthur Gaudens; and Madison, Richard Keith, 3,658,823.
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- Madison, Theodore C., to United States of America, Navy, mesne. Protective band for bilaminar transducer with slotted spacer ring. 3,663,933, 5-16-72, Cl. 340-8.000.
- Madland, Rolf A.: See—
- Carlson, Robert L.; and Madland, Rolf A., 3,638,807.
- Madland, Thorvald: See—
- Ross, Irving D., Jr.; and Madland, Thorvald, 3,660,938.
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- Madonini, Nino: See—
- Koschatzky, Bruno; Angioletti, Attilio E.; and Madonini, Nino, 3,667,203.
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- Goetz, Richard W.; and Mador, Irving L., 3,670,021.
- Madrazo, Charles Felix; Fulcher, Edwin Maxwell; and McDonagh, Kevin Patrick, to RCA Corporation. Gate circuit. 3,699,355, 10-17-72, Cl. 307-215.000.
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- Madsen, Andrew, to Resource Data Corporation. System for delineating selective response of a material to radiation in presence of visible illumination. 3,663,814, 5-16-72, Cl. 250-83.3.
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- Petersen, Jorgen Hartvig; and Madsen, Ingvard Mosby, 3,685,927.
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- Kitazawa, Tohru; Maeda, Hiroshi; Yoshidome, Hideo; and Sakata, Hidehiko, 3,657,178.
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- Kobayashi, Tatsuo; Maeda, Keisuke; and Uesugi, Kyozi, 3,643,578.
- Kobayashi, Tatsuo; and Maeda, Keisuke, 3,664,243.
- Maeda, Keisuke, to Minolta Camera Kabushiki Kaisha. Film transport mechanism. 3,665,830, 5-30-72, Cl. 95-31.0fl.
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- Umezawa, Hamao; Hamada, Masa; Naganawa, Hiroshi; Takeuchi, Tomio; Maeda, Kenji; and Okami, Yoshiro, 3,639,582.
- Umezawa, Hamao; Maeda, Kenji; Takeuchi, Tomio; Nitta, Kazuo; Okami, Yoshiro; and Ogawara, Hiroshi, 3,655,877.
- Umezawa, Hamao; Maeda, Kenji; and Suhara, Yasuji, 3,681,398.
- Umezawa, Hamao; Maeda, Kenji; Okami, Yoshiro; and Takeuchi, Tomio, 3,681,491.
- Maeda, Kihachiro: See—
- Morimoto, Shiro; Nomura, Hiroaki; Fugono, Takeshi; Maeda, Kihachiro; and Ishiguro, Toshihiro, 3,660,379.

- Nomura, Hiroaki; Ishiguro, Toshihiro; and Maeda, Kihachiro, 3,658,848.
- Maeda, Kiyoshi: *See—*
Shiraishi, Masao; and Maeda, Kiyoshi, 3,687,911.
Yamamoto, Akira; Miyako, Toyoharu; and Maeda, Kiyoshi, 3,663,727.
- Maeda, Minoru: *See—*
Iwao, Norito; Ito, Akira; Maeda, Minoru; Kawaguchi, Tadashi; and Nobukuni, Nakano, 3,653,650.
Iwao, Norito; Naito Koichiro; Kawaguchi, Tadashi; Maeda, Minoru; and Norita, Toshihito, 3,681,052.
- Maeda, Naoyuki: *See—*
Abe, Michio; and Maeda, Naoyuki, 3,699,372.
- Maeda, Nobutaka: *See—*
Tsukamoto, Hidehiko; and Maeda, Nobutaka, 3,678,719.
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Sawa, Yoshiro; Maeda, Ryoze; and Tada, Haruhiko, 3,654,280.
Sawa, Yoshiro; Maeda, Ryoze; and Irisawa, Junji, 3,707,470.
- Maeda, Shigeo: *See—*
Iizuka, Masao; Igari, Norio; and Maeda, Shigeo, 3,654,259.
Iizuka, Masao; Igari, Norio; and Maeda, Shigeo, 3,679,656.
Ozutsu, Minoru; Maeda, Shigeo; and Nakajyo, Teruo, 3,706,725.
- Maeda, Shigeyoshi: *See—*
Nishihara, Toshiro; Asano, Hidejiro; Maeda, Shigeyoshi; and Oyagi, Yashichi, 3,704,181.
- Maeda, Shozo: *See—*
Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiro; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,632,671.
Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiro; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,657,046.
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Okazaki, Kaoru; Shimokawa, Yoichi; Maeda, Taneo; Igawa, Keisuke; Okagawa, Chikatsu; and Kato, Koichi, 3,639,502.
- Maeda, Tatuo: *See—*
Konishi, Kozo; Otake, Michio; Maeda, Tatuo; and Maruyama, Kuniaki, 3,672,941.
Konishi, Kozo; Suzuki, Masaaki; Otake, Michio; and Maeda, Tatuo, 3,699,112.
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- Maeda, Tomosuke: *See—*
Masuda, Hiromasa; Nishigaki, Eiiti; and Maeda, Tomosuke, 3,671,496.
- Maeda, Torata: *See—*
Morita, Shichiro; Shimazu, Hiroshi; Saito, Tsutomu; Nakamura, Hiroshi; and Maeda, Torata, 3,647,149.
- Maeda, Yo; Suzuki, Satoshi; Nakamura, Yoshiharu; Masubuchi, Yoritomo; Ueyama, Tamotsu; Fukutomi, Naoki; and Takahashi, Hiroshi, to Hitachi Chemical Company, Ltd. Method for connecting conductors. 3,646,670, 3-7-72, Cl. 29-627.
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Moriki, Juichi; Itoh, Teruo; Shiosaki, Masaharu; Maeda, Yojin; Kuroki, Hisataka; Sumi, Kenshiro; and Shimura, Hidekazu, 3,662,194.
- Maeda, Yutaka; and Hirata, Kinya, to Okuma Machinery Works Ltd. Control system for DC motor. 3,641,409, 2-8-72, Cl. 318-258.
- Maeda, Yutaka; Kimura, Hiroshi; Koshimo, Akio; Kanzaki, Nagamasa; Yasuzuka, Katsumi; and Furukawa, Yoshinobu, to Nippon Rayon Company Limited. Method and apparatus for the production of crimped yarns. 3,643,412, 2-22-72, Cl. 57-34.
- Maeder, Arthur: *See—*
Huber-Emden, Helmut; Eschle, Karl; and Maeder, Arthur, 3,679,779.
Nachbur, Hermann; and Maeder, Arthur, 3,634,422.
Nachbur, Hermann; and Maeder, Arthur, 3,639,539.
Nachbur, Hermann; and Maeder, Arthur, 3,658,952.
Nachbur, Hermann; Kern, Joerg; and Maeder, Arthur, 3,669,725.
Nachbur, Hermann; and Maeder, Arthur, 3,671,611.
Nachbur, Hermann; and Maeder, Arthur, 3,679,778.
Nachbur, Hermann; and Maeder, Arthur, 3,700,403.
Toepel, Rosemarie; Abel, Heinz; Maeder, Arthur; and Leifels, Klaus-Dieter, 3,673,558.
Toepfl, Rosemarie; Abel, Heinz; Maeder, Arthur; and Deflorin, Alberto, 3,649,575.
- Maeder, Erwin: *See—*
Liechti, Peter; Maeder, Erwin; Guglielmetti, Leonardo; and Siegrist, Adolf Emil, 3,682,900.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo, 3,642,783.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo, 3,644,345.
- Siegrist, Adolf Emil; Maeder, Erwin; Liechti, Peter; and Guglielmetti, Leonardo, 3,687,880.
- Maeder, Erwin; Anliker, Rudolf; Schmid, Karl; and Siegrist, Adolf Emil, to Ciba Limited. Method for scintillation counting. 3,650,973, 3-21-72, Cl. 252-301.2.
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Henmi, Zenzo; Sasaki, Tatsuji; Matsui, Yuji; Maegawa, Harumi; Sato, Yoshihiro; Gotoh, Tsuneyasu; and Komatsu, Masahiro, 3,686,042.
- Maegawa, Harumi; Sato, Yoshihiro; Furuhashi, Yasuo; and Kiumi, Takayuki, to Fujitsu Limited. Inductance element for preventing half-select noise in memory elements. 3,641,522, 2-8-72, Cl. 340-174.
- Maehr Lesnor Manufacturing Corporation: *See—*
Gosman, Neil W., 3,688,324.
- Maehr, Richard J.: *See—*
O'Connor, Charles A.; and Maehr, Richard J., 3,703,835.
- Maejima, Kazutaka: *See—*
Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Tsubaki, Keisuke, 3,652,399.
Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Tsubaki, Keisuke, 3,655,570.
Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Kodama, Reijiro, 3,691,014.
- Maejima, Nobuo: *See—*
Kuramoto, Kaoru; Maejima, Nobuo; Miyakubo, Kiichiro; and Uzaki, Isao, 3,657,396.
- Maejima, Norio: *See—*
Tanimura, Shigeru; Maejima, Norio; Yoshimura, Kiyokazu; and Hinoda, Seisuke, 3,639,867.
Uekusa, Genzo; Tanimura, Shigeru; and Maejima, Norio, 3,707,686.
Yamamoto, Mitiaka; Uekusa, Genzo; Tanimura, Shigeru; and Maejima, Norio, 3,648,117.
- Mackawa, Hideyuki; Sakamoto, Teruo; and Sagawa, Yoshihisa, to Shinongi & Co., Ltd. Rotary press-molding apparatus. 3,663,147, 5-16-72, Cl. 425-345.000.
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- Mackawa, Reizo: *See—*
Torikata, Akio; Kayamori, Hisashi; Masc, Yasuo; Murata, Keijiro; and Mackawa, Reizo, 3,649,458.
- Mackawa, Sadafumi: *See—*
Kishikawa, Zitsuchi; and Mackawa, Sadafumi, 3,703,599.
- Mackawa, Takasumi; Yoshida, Ryoichi; and Nishihara, Minoru, to Toyo Denki Seizo Kabushiki Kaisha. Pulse allotting system of curve tracing equipment. 3,652,839, 3-28-72, Cl. 235-152.
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- Maemoto, Kenichi: *See—*
Nakaguchi, Kohei; Nishikida, Tomozumi; Kawasumi, Shohachi; Maemoto, Kenichi; Sano, Takezo; Fujii, Yoshikazu; Harada, Koichi; and Ueda, Keijyu, 3,669,945.
- Maemoto, Kenichi; and Shimamura, Takeshi, to Sumimoto Chemical Company, Ltd. Modified polyolefin composition. 3,651,028, 3-21-72, Cl. 260-78.5.
- Maenicke, Eckart, to Siemens Aktiengesellschaft. Remote protection apparatus having a polygonal tripping region. 3,644,788, 2-22-72, Cl. 317-27.
- Maenicker, Eckart: *See—*
Fendt, Alfons; and Maenicker, Eckart, 3,633,071.
- Maeno, Shizuo: *See—*
Umio, Suminori; and Maeno, Shizuo, 3,699,125.
Umio, Suminori; Ueda, Ikuo; Sato, Yoshinari; and Maeno, Shizuo, 3,704,245.
- Maenz, Harald; and Risch, Gerhard, to Jenoptik Jena G.m.b.H. Photographic lens of high image-resolving power comprising two doublets and four single lens elements. 3,702,216, 11-7-72, Cl. 350-215.000.
- Maerker, Gerhard: *See—*
Stallings, Leon; Devine, Martin J.; Maerker, Gerhard; and Eisner, Abner, 3,671,431.
- Maerker, Gerhard; and Kenney, Harold E., to United States of America, Agriculture. Cyanoethylation of hydroxy compounds. 3,701,802, 10-31-72, Cl. 260-404.000.
- Maes Incorporated: *See—*
Bauspicks, Robert O., 3,683,861.
Maes, Robert E., Jr., 3,684,248.
- Maes, Robert E., Jr., to Maes Incorporated. Fence gate handle. 3,684,248, 8-15-72, Cl. 256-10.000.
- Maes, Roland. Interferon or viral inhibitor protein induction. 3,679,654, 7-25-72, Cl. 260-112.500.
- Maesaka, Tomio: *See—*

- Miyazaki, Toshio; Omura, Etuzou; Katakabe, Kyoku; Makita, Minoru; Iwase, Kenji; Tsutsumi, Hideo; Yotsumoto, Takashi; Ikeda, Fumiaki; Takashima, Yoshiro; Sueyoshi, Hiromu; and Maesaka, Tomio, 3,689,620.
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- Maestracci, Charles: *See—*
Maestracci, Rene Ignace Joseph; and Maestracci, Charles, 3,658,330.
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- Maestrelli, Gino. Self-cleaning filter, particularly for dry-cleaning plants. 3,695,447, 10-3-72, Cl. 210-332.000.
- Maev, Veniamin Evnovich: *See—*
Rubinshtein, Sholom Yakovlevich; Babin, Mikhail Artemievich; Gutman, Anatoly Lvovich; Naumenko, Viktor Dmitrievich; Orlov, Evgeny Mikhailovich; Presman, Vladimir Alexandrovich; Maev, Veniamin Evnovich; and Bondarenko, Fedor Alexeevich, 3,678,664.
- Maetzawa, Shigeru: *See—*
Kurokawa, Akitsugu; and Maetzawa, Shigeru, 3,637,328.
- Maezelectronics, S.N.C.: *See—*
Nicola, Maurilio; and Luciano, Ezio, 3,660,831.
- Maffei, Silvio; and Tosi, Franco, to Biochefarm S.A. Benzoylation of indoles. 3,632,819, 1-4-72, Cl. 260-326.13.
- Maffia, Doro; and Schwartz, Linus G., to National Controls, Inc. Flexure base scale. 3,666,032, 5-30-72, Cl. 177-256.
- Maffii, Giulio: *See—*
Bellasio, Elvio; and Maffii, Giulio, 3,642,792.
Bellasio, Elvio; Testa, Emilio; and Maffii, Giulio, 3,644,361.
Cavalleri, Bruno; Bellasio, Elvio; Testa, Emilio; and Maffii, Giulio, 3,699,151.
Fontanella, Luigi; Testa, Emilio; and Maffii, Giulio, 3,637,808.
- Mag-Nif, Inc.: *See—*
Knox, William W., 3,665,639.
- Magagnoli, Remo: *See—*
Guzzi, Alberto; Magagnoli, Remo; and Vittore, Lorenzo, 3,647,468.
Guzzi, Alberto; and Magagnoli, Remo, 3,692,833.
- Magaldi, Paolo. Conveyor, particularly for hot materials. 3,633,737, 1-11-72, Cl. 198-196.
- Magat, Eugene Edward; and Tanner, David, to Du Pont de Nemours, E. I., and Company. Graft copolymers of unsaturated polyethers on polyamide and polyester substrates. 3,670,048, 6-13-72, Cl. 260-857.00g.
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- Magee, Harry H. Cattle identification apparatus. 3,675,357, 7-11-72, Cl. 40-300.000.
- Magee, James Arthur: *See—*
Cooke, Brian Alfred; and Magee, James Arthur, 3,699,031.
- Magee, James H.: *See—*
Elias, Laurence F.; and Magee, James H., 3,686,665.
- Magee, James Vincent: *See—*
Greiner, Norman Shirk; and Magee, James Vincent, 3,683,565.
- Magee, John S., Jr.; and Briggs, Warren S., to Grace, W. R., & Co. Hydrocarbon conversion catalysts. 3,650,988, 3-21-72, Cl. 252-451.
- Magee, Kenneth L., to Case, J. I., Company. Angle and tilt mechanism for dozer blade. 3,690,386, 9-12-72, Cl. 172-304.000.
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- Magee, Philip S., to Chevron Research Company. O-Alkyl-S-unsaturated aliphatic hydrocarbyl phosphoramidothioates. 3,649,723, 3-14-72, Cl. 260-956.
- Magee, Richard Joseph: *See—*
Diehl, Robert Eugene; and Magee, Richard Joseph, 3,700,674.
- Magee, Richard Joseph, to American Cyanamid Company. Insecticidal and anthelmintic 2-alkoxyquinoxalyl phosphates. 3,634,425, 1-11-72, Cl. 260-250.
- Magee, Richard Joseph; and Lovell, James Byron, to American Cyanamid Company. O,O-Dimethyl phosphorothioate esters of methyl pyrazinols as insecticides. 3,644,621, 2-22-72, Cl. 424-200.
- Magee, Thomas A., to Diamond Shamrock Corporation. Process for the production of 2,6-dicyanotrichloropyridine 2,6-dicyanopiperidine compounds. 3,652,572, 3-28-72, Cl. 260-294.9.
- Mageli, Orville Leonard; and D'Angelo, Antonio Joseph, to Pennwalt Corporation. Processes using polyperoxides affording sequential free radical generation. 3,706,818, 12-19-72, Cl. 260-885.000.
- Mager, Adolf: *See—*
Geiger, Rolf; Pfaff, Werner; Eander, Alfred; Schone, Hans-Hermann; and Mager, Adolf, 3,684,791.
- Mager, Donald V.; and Mager, Frederick R. Rotary Thatcher. 3,686,841, 8-29-72, Cl. 56-17.500.
- Mager, Elisabeth; Schulz, Helga; and Schulz, Peter, to Plaat, Carl, Firma. One-piece nipple, pacifier and the like. 3,669,112, 6-13-72, Cl. 128-252.
- Mager, Frederick R.: *See—*
Mager, Donald V.; and Mager, Frederick R., 3,686,841.
- Mager, Gunther Winand: *See—*
Brauweiler, Wilhelm; and Mager, Gunther Winand, 3,693,896.
- Mager, Theodor: *See—*
Wolf, Karlheinz; Haus, Artur; Hornle, Reinhold; and Mager, Theodor, 3,653,936.
- Magerlein, Barney J.: *See—*
Bannister, Brian; and Magerlein, Barney J., 3,705,889.
Kagan, Fred; and Magerlein, Barney J., 3,689,474.
- Magerlein, Barney J., to Upjohn Company, The. Method for the preparation of 4-alkylprolines and compounds produced thereby. 3,636,043, 1-18-72, Cl. 260-326.3.
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- Magerlein, Helmut: *See—*
Meyer, Gerhard; Grotjahn, Heinz; Magerlein, Helmut; Rupp, Hans-Dieter; Michael, Erlenbach; and Schopf, Albert, 3,661,502.
Meyer, Gerhard; Magerlein, Helmut; and Rupp, Hans-Dieter, 3,673,246.
Meyer, Gerhard; Magerlein, Helmut; and Rupp, Hans-Dieter, 3,686,328.
Rupp, Hans-Dieter; and Magerlein, Helmut, 3,647,811.
Rupp, Hans-Dieter; Meyer, Gerhard; and Magerlein, Helmut, 3,687,617.
Rupp, Hans-Dieter; Meyer, Gerhard; and Magerlein, Helmut, 3,695,832.
Schopf, Albert; Wallrabenstein, Michael; Rupp, Hans-Dieter; Magerlein, Helmut; Grotjahn, Heinz; and Meyer, Gerhard, 3,661,836.
- Magerlein, Helmut; Meyer, Gerhard; and Rupp, Hans-Dieter, to Glanzstoff AG. Catalytic production of dimethyl sulfide. 3,662,002, 5-9-72, Cl. 260-609.
- Magerlein, Helmut; Rupp, Hans-Dieter; and Meyer, Gerhard, to Glanzstoff AG. Process for the production of 2-mercapto-benzothiazole. 3,663,562, 5-16-72, Cl. 260-306.
- Magerlein, Helmut; Meyer, Gerhard; and Rupp, Hans-Dieter, to Glanzstoff AG. Process for the production of thiophosgene. 3,699,161, 10-17-72, Cl. 260-543.00r.
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- Maggarr Viscosa Gyar: *See—*
Greguss, Pal; Nagy, Sandor B.; Erdei, Janos; and Toth, Lajos, 3,695,825.
- Maggi, Carlo: *See—*
Faber, Guy; and Maggi, Carlo, 3,689,178.
- Maggi, Nicola; and Sensi, Piero, to Lepetit S.p.A.-Gruppo per la Ricerca Scientifica e la Produzione Chimica Farmaceutica. 4-Desoxy rifamycin-SV and its preparation. 3,686,166, 8-22-72, Cl. 260-239.03p.
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- Maggio, Thomas E.: *See—*
Stanaback, Robert J.; and Maggio, Thomas E., 3,651,107.

- Maggiolo, Allison; Hinton, Everett H., Jr.; and Smith, Ray S., to Burlington Industries, Inc. Textile fabric having soil release finish and method of making same. 3,632,422, 1-4-72, Cl. 117-138.8.
- Maggs, Robert James: See—
Joyner, Peter Leonard; and Maggs, Robert James, 3,706,381.
- Magi, Hugo; and Smith, John, to Dominion Auto Accessories Limited. Snap-in lens for lamp housing. 3,651,321, 3-21-72, Cl. 240-151.
- Magi, Hugo, to Dominion Auto Accessories Limited. Shock resistant mountings for light bulbs. 3,666,940, 5-30-72, Cl. 240-90.000.
- Magi, Mamoru: See—
Yasuda, Yukitomo; Akasaka, Tadashi; Nishikawa, Yasuhisa; and Magi, Mamoru, 3,634,791.
- Magi, Mario: See—
Serino, Enrico; Antoniu, Demetrio; Magi, Mario; Ganzina, Fabrizio; and Samuelli, Fabio, 3,651,059.
- Magic American Chemical Corporation: See—
Zeilinger, Alan F., 3,706,397.
- Magic Charm, Inc.: See—
Panes, Jack, 3,702,116.
- Magic Chef, Inc.: See—
Nance, Joseph W., 3,679,274.
- Magic Eye Associates, Inc.: See—
Gervin, Melvyn A.; Wozny, Eugene Taras; and Giardina, Nicholas, 3,645,045.
- Magid, Louis: See—
Koff, Arnold; and Magid, Louis, 3,655,852.
- Magid, Louis, to Hoffmann-La Roche Inc. Silica gel stabilizer for sugar coated multivitamin tablets. 3,646,192, 2-29-72, Cl. 424-35.
- Magidson, William H.: See—
Protzman, Thomas F.; and Magidson, William H., 3,676,127.
- Magill, John W.: See—
Guritz, Kenneth E.; and Magill, John W., 3,680,449.
- Magill, Malcolm E.: See—
Hedler, Robert A.; and Magill, Malcolm E., 3,657,009.
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- Magin, Berthold, to Arndt, Hans F., Maschinenbau. Apparatus and process for drying skins, pelts, hides, furs, soft leathers, and the like. 3,643,341, 2-22-72, Cl. 34-31.
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- Maginnis, George B., to General Motors Corporation. Transpiration cooling. 3,698,834, 10-17-72, Cl. 416-96.000.
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- Magladry, Robert E., to Teledyne, Inc., mesne. Nuclear reactor of the metal hydride control type. 3,644,173, 2-22-72, Cl. 176-42.
- Magladry, Robert E., to Teledyne Inc., mesne. Nuclear reactor control with reflector and absorber means. 3,660,228, 5-2-72, Cl. 176-20.
- Maglio, Ralph A.: See—
Harper, Cyril N.; and Maglio, Ralph A., 3,649,600.
- Magna Corporation: See—
Blair, Charles M., Jr., 3,690,857.
- Townsend, Clarence R., 3,660,249.
- Magnacheck Corporation: See—
Bradford, John Ramsey; and Goodwin, William Gerry, 3,656,429.
- Bradford, John Ramsey, 3,703,864.
- Magnaflux Corporation: See—
Borucki, James S., 3,642,655.
- Brusko, Richard S., 3,642,654.
- Flaherty, John J.; and Nerwin, Henry N., 3,673,860.
- Gewartowski, Richard S., 3,645,376.
- Mlot-Fijalkowski, Adolf, 3,647,705.
- Magnan, Henri: See—
Morgand, Jean Paul; Magnan, Henri; and Romagny, Bernard, 3,651,253.
- Magnante, Frank A.: See—
Harris, William C.; and Magnante, Frank A., 3,661,443.
- Magnante, Peter C., to American Optical Corporation. Frequency-doubled neodymium doped glass laser utilizing a lithium niobate crystal. 3,670,258, 6-13-72, Cl. 331-94.500.
- Magnard, Pierre Lucien Antoine; and Lemaitre, Andre Jules Emile, to Mead Corporation, The. Machine for the packaging of objects. 3,706,178, 12-19-72, Cl. 53-131.000.
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Tomlin, Robert Derrick, 3,703,270.
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Crane, Paul J.; and Feese, Glenn A., 3,699,249.
- Cushner, Stanton H.; Ferguson, Patrick E.; Griffiths, Henry W.; and Nelson, Alfred M., 3,636,535.
- Dattilo, Giuseppe A., 3,643,016.
- Hunsinger, Billy Jo, 3,668,558.
- Knauer, Paul E.; and Kresock, John M., 3,649,746.
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- Kresock, John M., 3,654,384.
- Kresock, John M., 3,694,567.
- Link, John T., 3,651,310.
- Marshall, Daniel J., 3,647,943.
- Marshall, Daniel J., 3,688,022.
- Mayle, Louis F., 3,643,167.
- Mohr, John G.; and Stacer, Ross G., 3,651,406.
- Richeson, William E., Jr.; and Feher, Mike B., 3,656,151.
- Richeson, William E., Jr.; and Roach, Joel K., 3,700,810.
- Richter, Robert H., 3,701,465.
- Robertson, Gene D., 3,706,842.
- Schoolcraft, Ralph W., 3,667,046.
- Sweeney, Richard E.; and Griffith, James M., 3,657,479.
- Thomson, Don N.; Connolly, James J.; and Zeiger, Kenneth K., 3,643,257.
- Zahnen, Joseph G.; and Kent, George A., 3,646,392.
- Magnavox Electronics Company, Limited, The: See—
Goulding, Kenneth Charles, 3,692,315.
- Magnavue, Inc.: See—
Cox, James E., 3,632,191.
- Magne, Frank C.: See—
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- Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,644,478.
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Riggs, Dean D., 3,634,831.
- Magnepan Incorporated: See—
Winey, James M., 3,674,946.
- Magner, Philip G., Jr.; and Mitten, Robert W., to General Tire & Rubber Company, The. Means for smoothing the inside surface of plastic hose. 3,644,696, 2-22-72, Cl. 219-10.57.
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- Magnetfabrik Bonn GmbH vorm. Gewerkschaft: See—
Steingrover, Eric, 3,694,115.
- Magnetic Forming Corporation: See—
Bohen, Hugh R., Jr.; and Wiggins, Charles S., 3,655,297.
- Magnetic Head Corporation: See—
Braun, Richard E.; Hopkins, Lionel G.; Sheehan, Neil J.; and Sanchez, Edward J., 3,678,576.
- Braun, Richard E.; and Hopkins, Lionel G., 3,701,859.
- Magnetic Recording Systems, Inc.: See—
Baur, Kenneth R.; and Meihof, Robert W., 3,637,161.
- Magnetics, Inc.: See—
Lee, John T., 3,686,599.
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- Magnoni, Franco: See—
Sicliari, Francesco; and Magnoni, Franco, 3,644,294.
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- Magnus, Agatha C. Glucosamine-alkylsulfonate and process. 3,679,660, 7-25-72, Cl. 260-211.00r.
- Magnuski, Henry. Digital radio communication systems using repeaters operating at same frequency. 3,646,441, 2-29-72, Cl. 325-13.
- Magnuson, John E.: See—
Burrows, Clifford G.; Magnuson, John E.; and Giese, Ludi, 3,706,464.
- Magnuson, Raymond A.: See—
Brorson, Donald L.; and Magnuson, Raymond A., 3,677,322.
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- Magnuson, Robert: See—
Babb, Raymond E., 3,669,263.
- Baumann, Poul H., 3,661,240.

- Daugherty, Ralph K., 3,665,987.
- Elliott, Melvin R., 3,640,378.
- Green, Chester, 3,651,925.
- Lazzarini, Louis P., 3,642,520.
- Magnuson, Roland A., to United States of America, Army. Ammunition booster. 3,706,255, 12-19-72, Cl. 86-1.000.
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- Magnusson, Elov Folke. Hitches for tractor-mounted implements. 3,662,848, 5-16-72, Cl. 180-51.
- Magnusson, Gustav G.: See—
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- Magnusson, Kjell I.; and Owarfort, Rune T. Device for imparting a rotational as well as a longitudinal movement to tubes or rods. 3,664,531, 5-23-72, Cl. 214-339.
- Magnusson, Olov Tage; and Kenneryd, Karl Gosta Lennart, to Aktiebolaget Electrolux. Gas-operated refrigerator having sealed combustion system. 3,668,889, 6-13-72, Cl. 62-476.000.
- Mago, Blake F., to Union Carbide Corporation. Zinc-rich protective coatings for metals. 3,634,109, 1-11-72, Cl. 106-1.
- Mago, Brij Mohan; and Bruton, James Isaac, to Allied Chemical Corporation. High strength polyethylene terephthalate yarn and cord produced therefrom. 3,690,362, 9-12-72, Cl. 152-359.000.
- Magoon, Eugene F., to Shell Oil Company. Olefin-alkyl iodide exchange. 3,697,611, 10-10-72, Cl. 260-677.0xa.
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Molby, Lloyd A.; Magown, Lloyd L.; and Steiner, Larry T., 3,662,841.
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- Magrane, Robert T., to Phelon, R. E., Company, Inc. Combined alternator and ignition trigger signal generator with arrangement for suppressing spurious trigger signals. 3,673,490, 6-27-72, Cl. 322-50.000.
- Magri, Dominic: See—
James, Edgar T.; and Magri, Dominic, 3,680,568.
- Magri, Joseph L.: See—
Shohet, Herbert N.; Magri, Joseph L.; and Primachuk, Edward R., 3,678,690.
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- Magrini Fabbrie Riunite Magrini Scarpa e Magnano-M.S.M.-S.p.A.: See—
Calvino y Teijeiro, Benito Jose, 3,670,125.
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Calvino y Teijeiro, Benito Jose, 3,670,124.
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Latour, Andre; and Fumagalli, Giacomo, 3,679,851.
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Schwab, Johann; and Magritsch, Anna, 3,667,308.
- Maguire, Edward T., to Ke General Corporation. Computer controlled three dimension display. 3,636,551, 1-18-72, Cl. 340-324.
- Maguire, Eileen: See—
Kadison, Leon A.; and Maguire, Eileen, 3,668,130.
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- Maguire, Eileen; and Kadison, Leon A., to Crown City Plating Co. Pre-etch treatment of acrylonitrile-butadiene-styrene resins for electroless plating. 3,671,289, 6-20-72, Cl. 117-47.00a.
- Maguire, Eileen; and Kadison, Leon A., to Crown City Plating Co. Conditioning of propylene polymers for electroless plating. 3,686,016, 8-22-72, Cl. 117-47.00a.
- Maguire, Eileen; and Kadison, Leon A., to Crown City Plating Co. Process for electroless plating of ABS resins. 3,689,303, 9-5-72, Cl. 117-47.00a.
- Maguire, Hugh C.: See—
Ross, Gerald F.; and Maguire, Hugh C., 3,696,359.
- Maguire, Mary H.; Gough, Geoffrey R.; and Michal, Frank, to University of Sydney, The. Inhibiting or preventing thrombus formation with 2-methylthioadenosine-5'-monophosphate. 3,678,162, 7-18-72, Cl. 424-180.000.
- Maguire, Richard J., to Gillette Company, The. Assembly apparatus. 3,634,920, 1-18-72, Cl. 29-208.
- Magunov, Robert Leonidovich: See—
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- Magyar Asvanyolaj es Foldgaz Kiserleti Intezet: See—
Nagy, Zoltan; Szepesy, Laszlo; Kovacs, Attila; and Sebestyen, Zsigmond, 3,644,555.
- Magyar, John P.: See—
Veasaw, James J.; and Magyar, John P., 3,644,914.
- Magyar, Joseph J., to General Motors Corporation. Vehicle seat having an adjustable back. 3,635,525, 1-18-72, Cl. 297-354.
- Magyar, Joseph J., to General Motors Corporation. Inflatable occupant restraint system. 3,666,289, 5-30-72, Cl. 280-150.
- Magyar Optikai Muvek: See—
Bessko, Dezso; Gallai, Gyula; Farnady, Pal; Jozsa, Geza; Kovy, Margit; Teller, Laszlo; Suba, Andras; and Tisza, Sandor, 3,652,166.
- Magyar Tudomanyos Akademia: See—
Csuros, Zoltan; Petro, Jozsef; Mathe, Tibor; and Tungler, Antal, 3,654,111.
- Mahaffey, Donald M.: See—
Dawson, Ralph E.; and Mahaffey, Donald M., 3,676,425.
- Mahaffy & Harder Engineering Company: See—
Mahaffy, Reid A.; Dunkerley, James B.; and Posta, Joseph M., 3,685,251.
- Psota, Joseph M.; Hamilton, Joel A.; and Di Donato, Russell D., 3,661,484.
- Mahaffy, Reid A.: See—
Young, William E.; and Mahaffy, Reid A., 3,695,900.
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- Mahan, John E.: See—
Kenton, Joseph R.; and Mahan, John E., 3,658,930.
- Mahaney, Joseph Francis. Removable chute for a hopper. 3,650,420, 3-21-72, Cl. 214-44.
- Mahanty, Bhaskar Chandra; and Mahn, Gustav, to Salzgitter Huttenwerk Aktiengesellschaft. Process and device for determining the oxygen concentration in metal melts. 3,681,972, 8-8-72, Cl. 73-19.000.
- Mahar, John H., to Esso Research and Engineering Company. Split feed to a fluidized iron ore reduction process. 3,684,482, 8-15-72, Cl. 136-26.000.
- Mahe, Yves; Letourneur, Gilbert; and Devillas, Jean-Luc, to La Celophane, Societe Anonyme. Coating process for regenerated cellulose film. 3,690,910, 9-12-72, Cl. 117-7.000.
- Maher, Frank A., to Vapor Corporation. Method of making a heat exchanger coil assembly. 3,639,963, 2-8-72, Cl. 29-157.3.
- Maher, Gale H., to Sprague Electric Company. Low temperature fired rare earth-titanate ceramic body and method of making. 3,682,766, 8-8-72, Cl. 161-196.000.
- Maher, Pat. Tank heater. 3,703,167, 11-21-72, Cl. 126-350.00r.
- Maher, Philip Kenerick: See—
McDaniel, Carl Vance; Maher, Philip Kenerick; and Pilato, Joseph Michael, 3,650,687.
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- Maher, Robert A. Graphic communication system. 3,684,828, 8-15-72, Cl. 178-18.000.
- Maher, Robert H.: See—
Berman, Elliot; Maher, Robert H.; and Manhardt, John R., 3,634,083.
- Maher, Robert J.: See—
Amolsch, William; and Maher, Robert J., 3,671,124.
- Maher, Stephen L., to Packaging Corporation of America. Hot pressing process. 3,681,115, 8-1-72, Cl. 117-64.00r.
- Maher, William M., to General Electric Company. Brush holder assembly. 3,656,018, 4-11-72, Cl. 310-242.
- Mahl, Gunard O. B., to Hermann, Carl, Associates, Inc. Thin film deposition apparatus. 3,643,625, 2-22-72, Cl. 118-48.
- Mahl, Hans: See—
Lind, Heinrich; Mahl, Hans; and Beer, Ekkehard, 3,695,972.
- Mahl, Hans; and Lind, Heinrich, to Kalle Aktiengesellschaft. Process for the production of a flexible, synthetic, gas-permeable, multi-layer sheet material having a napped outer surface. 3,684,556, 8-15-72, Cl. 117-63.000.
- Mahl, Willy; and Werner, Walter, to Bosch, Robert, G.m.b.H. Hydraulic system. 3,683,748, 8-15-72, Cl. 91-416.000.
- Mahla, Elbert M.: See—
Bunting, William W., Jr.; Buskirk, Robert E.; Hogan, John P.; and Mahla, Elbert M., 3,704,975.
- Mahle-Werk GmbH: See—
Frey, Rolf, 3,702,153.
- Mahler, Ernst, to Didier-Werke A.G. Magnesite refractory materials. 3,676,162, 7-11-72, Cl. 106-58.000.
- Mahler, Hans Hermann: See—
Arian, Charles Mourad; Mahler, Hans Hermann; Hayes, Claude Cecil, Jr.; and Tanner, Hal W., Jr., 3,695,219.

Mahler, Jörn Leo: *See*—
Aunstrup, Knud; and Mahler, Jörn Leo, 3,669,843.

Mahling, Dieter: *See*—
Frielingsdorf, Hans; Mueller-Tamm, Heinz; and Mahling, Dieter, 3,634,166.
Frielingsdorf, Hans; Mueller-Tamm, Heinz; and Mahling, Dieter, 3,684,610.

Mahlman, Bert H., to Hercules Incorporated. Polyphase compositions and process for their preparation. 3,664,981, 5-23-72, Cl. 260-27.

Mahlman, Bert H., to Hercules Incorporated. Polyphase propylene polymer-rubber compositions and process for their preparation. 3,665,059, 5-23-72, Cl. 260-897.

Mahlman, Bert H., to Hercules Incorporated. Polyphase compositions and process for their preparation. 3,689,597, 9-5-72, Cl. 260-897.00r.

Mahlman, Bert H.; and Spurlin, Harold M., to Hercules Incorporated. Polyphase compositions. 3,705,123, 12-5-72, Cl. 260-28.50a.

Mahlmann, James P.; Coogan, Joseph F., III; and Mazzaferro, Gene Alfred, to General Foods Corporation. Roasting of subdivided coffee beans. 3,706,574, 12-19-72, Cl. 99-69.000.

Mahlmann, Werner, to Zinser-Textilmaschinen Gesellschaft mit beschränkter Haftung. Driving system for moving rails of textile machines. 3,635,020, 1-18-72, Cl. 60-51.

Mahlstedt, Gerald F.; and Caruth, Buster L., to Polar Chilled Products Co., Inc. Bottle rinsing apparatus. 3,677,273, 7-18-72, Cl. 134-127.000.

Mahmoodi, Parviz, to Minnesota Mining and Manufacturing Company. Disposable temperature-sensing device. 3,663,917, 5-16-72, Cl. 338-28.

Mahmoud, Aly A., to United States of America, Navy. System for asynchronous switching of a load from one power source to another. 3,638,040, 1-25-72, Cl. 307-243.

Mahmoud, Aly A., to United States of America, Navy. Low frequency power transient filters. 3,660,787, 5-2-72, Cl. 333-76.000.

Mahn, Gustav: *See*—
Mahanty, Bhaskar Chandra; and Mahn, Gustav, 3,681,972.

Mahogany Farms, Inc., mesne: *See*—
Garnett, Donald W., 3,647,343.

Mahogany Forms, Inc., mesne: *See*—
Garnett, Donald W., 3,683,793.

Maholick, Andrew W.: *See*—
Freeman, Richard B.; Kawalec, Michael T.; Maholick, Andrew W.; and Stager, Stanley R., III, 3,678,469.

Mahon, Henry I.: *See*—
McLain, Earl A.; and Mahon, Henry I., 3,659,983.

Mahon, John V., to Container Corporation of America. Wraparound carrier with chime locking structure. 3,653,580, 4-4-72, Cl. 229-40.

Mahon, John V., to Container Corporation of America. Opening feature for bottle carrier. 3,688,972, 9-5-72, Cl. 229-51.0ts.

Mahon, Michael J.: *See*—
Logan, William A.; Holmes, Richard M.; Denny, William M.; Mahon, Michael J.; Skalski, Stephen, III; Henige, Gerald L.; and Bedekar, Shreekanth, 3,686,641.

Mahon, Roger F.: *See*—
Brunner, Richard; and Mahon, Roger F., 3,664,190.

Mahon, Thomas J.; and Cherba, Samuel, to Becton, Dickinson and Company, mesne. Breathing circuit. 3,670,726, 6-20-72, Cl. 128-188.000.

Mahone, Asie, Jr. Illuminated fishing bobber. 3,693,278, 9-26-72, Cl. 43-17.500.

Mahoney, David T. Metal dilator. 3,698,391, 10-17-72, Cl. 128-261.000.

Mahoney, James P.: *See*—
Hutto, Edgar, Jr.; and Mahoney, James P., 3,651,328.

Mahoney, John A.: *See*—
McCaulay, David A.; Hensley, Albert L., Jr.; and Mahoney, John A., 3,705,096.

Mahoney, John Thomas; and Tjaden, Garold Stephen, to Bell Telephone Laboratories, Incorporated. Bus coupler protection circuit. 3,654,517, 4-4-72, Cl. 317-33.

Mahoney, Michael. Universal screwdriver. 3,674,070, 7-4-72, Cl. 145-50.00a.

Mahoney, Ralph P., to Beloit Corporation. Coater with applicator rods. 3,650,242, 3-21-72, Cl. 118-246.

Mahoney, Tennis: *See*—
Nickels, James J.; Mahoney, Tennis; and Hart, Harry L., 3,648,606.

Mahoney, Thomas P.: *See*—
Campbell, James R., 3,689,730.

Mahony, David T. Chair for measuring urinary flow rate. 3,670,342, 6-20-72, Cl. 4-134.000.

Mahorney, Kenneth R., to Danly Machine Corporation. Safety valve assembly for controlling clutch and brake in power press or the like. 3,670,767, 6-20-72, Cl. 137-596.000.

Mahr, Rene N.; Radoux, Henri Joseph; and Burton, Clement E., to S.A. des Anciens Etablissements, Paul Wurth. Tuyere stock for furnaces. 3,662,696, 5-16-72, Cl. 110-182.5.

Mahr, Rene N.; and Legille, Edouard, to S.A. Des Anciens Etablissements Paul Wurth. Furnace charging apparatus. 3,693,812, 9-26-72, Cl. 214-35.00r.

Mahringer, Karl Heinrich; and Langlitz, Karlheinz, to Demag Aktiengesellschaft. Support arrangement for a vessel used in high temperature operations. 3,684,265, 8-15-72, Cl. 266-36.00p.

Mahringer, Karl-Heinz: *See*—
Stresemann, Siegfried; Langlitz, Karl-Heinz; and Mahringer, Karl-Heinz, 3,652,072.

Mahy, Geoffrey Richard: *See*—
Pocklington, Arthur Ronald; and Mahy, Geoffrey Richard, 3,682,102.

Mai, Erich, to Haanmann, Josef, Freudenberger Winden- und Hebezeugfabrik. Landing gear for semitrailers or the like. 3,632,086, 1-4-72, Cl. 254-86.

Maiero, Richard Joseph, to Ventech Automation Company, Inc. Cylinder positioner. 3,656,656, 4-18-72, Cl. 221-173.

Maichen, Karl, to Shell Oil Company. Infinitely variable friction gearing. 3,659,469, 5-2-72, Cl. 74-192.

Maid-Mar Industries, Inc.: *See*—
Miller, Richard, 3,702,614.

Maida, Osamu, to Nippon Kogaku K.K. Timer for a camera. 3,703,649, 11-21-72, Cl. 307-293.000.

Maiden, Donald L.; Monteith, James H.; and Carpin, Thomas D., to United States of America, National Aeronautics and Space Administration. Flow velocity and direction instrument. 3,699,811, 10-24-72, Cl. 73-189.000.

Maidenform Inc.: *See*—
Pedley, Dianne, 3,677,252.

Maier, Alfred E.: *See*—
Hendry, Allen J.; and Maier, Alfred E., 3,654,535.

Maier, Andreas: *See*—
Franz, Peter; and Maier, Andreas, 3,643,874.
Sutter, Fritz; and Maier, Andreas, 3,669,416.

Maier, Charles N. Sliding cover apparatus for ice fishing hole. 3,694,950, 10-3-72, Cl. 43-4.000.

Maier, Elmar; and Rangger, Herbert, to Hilti Aktiengesellschaft. Support assembly for a remotely fired power charge-operated bolt setter. 3,637,127, 1-25-72, Cl. 227-9.

Maier, Elmar; and Rangger, Herbert, to Hilti Aktiengesellschaft. Powder charge-operated bolt setter for securing exothermic plates on chill molds. 3,679,118, 7-25-72, Cl. 227-10.000.

Maier, Elmar, to Hilti Aktiengesellschaft. Cartridge explosion operated bolt setting gun for fastening iron chill plates. 3,682,364, 8-8-72, Cl. 227-9.000.

Maier, Gary H., to Ferti-Feeder, Inc. Fertilizer applying apparatus. 3,695,193, 10-3-72, Cl. 111-93.000.

Maier, Ivan W., to Molon Motor & Coil Corporation. Permanent magnet motor. 3,633,055, 1-4-72, Cl. 310-156.

Maier, John E.: *See*—
Patel, Kalyanji U.; and Maier, John E., 3,655,727.

Maier, Karl, to International Standard Electric Corporation. Filtering method and a circuit arrangement for carrying out the filtering method. 3,681,701, 8-1-72, Cl. 328-167.000.

Maier, Karl, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Red anthraquinone dyes containing ester groups. 3,687,985, 8-29-72, Cl. 260-376.000.

Maier, Karl, to International Standard Electric Corporation. Circuit arrangement for telecommunication switching systems employing time-division multiplex operation. 3,692,945, 9-19-72, Cl. 179-18.0gf.

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Maier, Ludwig. Phosphorus compounds having the skeleton structure P-[C(C)n-P]2, or P-[C(C)n-P]3. 3,632,634, 1-4-72, Cl. 260-502.4.

Maier, Ludwig, to Monsanto Company. Nitrogen-containing tertiary phosphine sulfides. 3,632,649, 1-4-72, Cl. 260-570.5.

Maier, Ludwig. Arylene phosphinites. 3,632,689, 1-4-72, Cl. 260-930.

Maier, Ludwig. Process for preparing organic thioformamides and organic dithiocarbamates. 3,632,812, 1-4-72, Cl. 260-293.4.

Maier, Ludwig, to Monsanto Company. Built detergent compositions containing tris (methyl phosphonic acid) phosphine oxide and its salts. 3,639,281, 2-1-72, Cl. 252-89.

Maier, Ludwig. Tris-(2-hydroxyalkyl)-phosphine oxide flame retardant articles. 3,666,543, 5-30-72, Cl. 117-136.000.

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Maier, Martin; and Wolf, Eberhard, to Maschinenfabrik Fahr Aktiengesellschaft. Hay-harvesting implements. 3,640,056, 2-8-72, Cl. 56-370.

Maier, Richard: *See*—
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Maier, Robert. Method of making a connector plug. 3,676,927, 7-18-72, Cl. 29-629.000.

Maier, Robert E., Jr.; and Moser, James R., to Harris-Intertype Corporation. Method and apparatus for feeding stacked sheet material. 3,674,258, 7-4-72, Cl. 271-77.000.

Maier, Robert E., Jr.; McGinnis, Joseph P.; and Simon, Paul R., to Harris-Intertype Corporation. Method and apparatus for feeding sheet material into a hopper. 3,690,650, 9-12-72, Cl. 271-89.000.

Maier, Roy R. Vehicle hook. 3,694,866, 10-3-72, Cl. 24-115.00j.

Maierform Holding S.A.: *See*—
Csutor, Denis D. A., 3,678,877.

Maieron, Theodore; Roe, Harry L., Jr.; and Williams, James E., to National Cash Register Company, The. Pre-fluxed solder powder. 3,703,254, 11-21-72, Cl. 228-56.000.

Maigret, Andre D.: *See*—
Lachaussee, Maurice L.; and Maigret, Andre D., 3,641,801.

Majers, Andries Cornelis; and Ketel, Jacob, to U.S. Philips Corporation. Electrical circuit element having a diagonal abutment strip, and method of manufacturing the same. 3,691,436, 9-12-72, Cl. 317-261.000.

Maikova, Margarita Viktorovna: *See*—
Nesterovskiy, Vsevolod Vladimirovich; Khmelnskiy, Julius Lazarevich; Karzhev, Vladimir Ivanovich; Silchenko, Ekaterina Ivanovna; Goncharova, Nina Vasilievna; Svirina, Valentina Petrovna; Maikova, Margarita Viktorovna; and Murashkina, Marfa Markovna, 3,649,96.

Mail, Isaac Paul, to Combustion Engineering, Inc. Method for backwashing filters. 3,631,983, 1-4-72, Cl. 210-80.

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Mailhos, Joseph E.; and Delaune, Gerald P., to Calcasieu Paper Company, Inc. Kraft pulp and paper recovery process. 3,666,619, 5-30-72, Cl. 162-30.

Maillard, Bernard, to Brevets Aero-Mecaniques S.A. Cartridge-belt feed systems for automatic weapons. 3,653,289, 4-4-72, Cl. 89-35.

Maillard, Bernard, to Brevets Aero-Mecaniques S.A. Elastic damping device for fire-arms. 3,662,648, 5-16-72, Cl. 89-44.

Maillard, Bernard. Breech mechanism for automatic or semi-automatic guns. 3,690,218, 9-12-72, Cl. 89-185.000.

Maillard, Jacques George, to Laboratories Jacques Logeais. Process for the preparation of oxazolindione derivatives. 3,655,673, 4-11-72, Cl. 260-293.66.

Maillardet, Frederick James: *See*—
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Maillet, Wilfrid G., to Communications Satellite Corporation. Variable burst length TDMA system. 3,649,764, 3-14-72, Cl. 179-15.

Mailliard, Richard P. Mobile rock crushing apparatus. 3,656,696, 4-18-72, Cl. 241-155.

Maillet, Jean-Paul, to International Standard Electric Corporation. Power supply circuit for continuous-wave magnetron. 3,702,969, 11-14-72, Cl. 328-230.000.

Maillet, Jean-Paul, to International Standard Electric Corporation. Nuclear radiation monitoring device wherein a detector, a remote source and a measuring device are connected by a single cable. 3,657,540, 4-18-72, Cl. 250-83.3.

Maillet, Jean-Paul, to International Standard Electric Corporation. Radiation counting tube of the Geiger-Muller type. 3,665,189, 5-23-72, Cl. 250-83.6.

Mailloux, Robert J.: *See*—
Van Atta, Lester C.; and Mailloux, Robert J., 3,680,142.

Main, George, to Republic Steel Corporation. Seal for moving strip. 3,640,543, 2-8-72, Cl. 277-237.

Main, George; and Jahnke, Robert E., to Republic Steel Corporation. Apparatus for processing coiled tubing having turns prebent to varying radii of curvature. 3,690,288, 9-12-72, Cl. 118-6.000.

Main, Henry Allan; and Thompson, Joseph, to Northern Electric Company Limited. Coin switch apparatus. 3,699,259, 10-17-72, Cl. 179-6.500.

Main, Robert, Jr., to Deluxe Specialties Manufacturing Company, Inc. Tank baffle. 3,645,416, 2-29-72, Cl. 220-22.

Main, Ronald S. Sod seeders. 3,633,522, 1-11-72, Cl. 111-69.

Main Trucking & Rigging Co., Inc.: *See*—
Lee, Alfred, 3,695,566.

Maina, Mario Joseph, to General Motors Corporation. Selector mechanisms for change-speed gears. 3,648,536, 3-14-72, Cl. 74-476.

Mainard, Douglas Raymond: *See*—
Hall, Raymond Frederick; and Mainard, Douglas Raymond, 3,699,377.

Maines, James Dennis; and Paige, Edward George, to National Research Development Corporation. Frequency sensitive detecting and measuring circuits based on the acoustic electric effect. 3,660,756, 5-2-72, Cl. 324-80.

Mainthia, Shashi B., to Polychrome Corporation. Diazo-polyurethane light-sensitive compositions. 3,660,097, 5-2-72, Cl. 96-91.

Mainwaring, Albert Bruce, to Uniform Tubes, Inc. Non-trepanning non-rotary electrode for electro-erosion of metals. 3,663,784, 5-16-72, Cl. 219-69.

Mainz, Werner Harald Valentin: *See*—
Mantell, Detmar Franz Otto; and Mainz, Werner Harald Valentin, 3,650,516.

Maiocchi, Luigi: *See*—
Magistrini, Carlo; and Maiocchi, Luigi, 3,667,527.

Maiocchi, Luigi, to Industrie Pirelli S.p.A. Tread ring for removable tread tires. 3,703,202, 11-21-72, Cl. 152-175.000.

Maione, Joseph R.: *See*—
Rutter, Carlton G.; and Maione, Joseph R., 3,650,455.

Maione, Theodore Lincoln, to Bell Telephone Laboratories, Incorporated. Extending the capability of a fault locate line. 3,651,284, 3-21-72, Cl. 179-175.3.

Maiores, Nikolai Kuzmich: *See*—
Kotov, Evgeny Pavlovich; Legostov, Viktor Vladimirovich; Stepanov, Evgeny Alexeevich; Chuchalov, Alexandr Mikhailovich; Maiores, Nikolai Kuzmich; Merezko, Gennady Pavlovich; Komarov, Anatoly Semenovich; and Sosnitsky, Nikolai Georgievich, 3,694,570.

Mair, Winfried: *See*—
Sarten, Paula; and Mair, Winfried, 3,663,322.
Sarten, Paula; and Mair, Winfried, 3,697,339.

Mais, Ago: *See*—
Miller, Eugene J., Jr.; and Mais, Ago, 3,661,951.
Miller, Eugene J., Jr.; Mais, Ago; Berenschot, Donald J.; and Berger, Robert L., 3,694,409.

Maisch, Larry D.: *See*—
Bryan, Darrel L.; and Maisch, Larry D., 3,669,293.

Maisch, Wolfgang: *See*—
Schnaebel, Eberhard; Fleischer, Helmut; Zechall, Richard; Domann, Helmut; Maisch, Wolfgang; and Christ, Klaus, 3,696,270.
Zechall, Richard; Domann, Helmut; Fleischer, Helmut; Christ, Klaus; and Maisch, Wolfgang, 3,642,329.

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Meyer, Charles; Maison, Francois; and Sangouard, Paul, 3,651,513.

Maison, Jean Marc: *See*—
Bertrand, Guy; and Maison, Jean Marc, 3,668,253.

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Maissel, Leon I.: *See*—
Glang, Reinhard; Holmwood, Richard A.; Maissel, Leon I.; and Vergnolle, Jean, 3,652,750.

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Maisumoto, Satoshi: *See*—
Kaku, Kanui; Asaba, Mitsuo; Gondo, Yasaka; Kachi, Atsuyuki; and Maisumoto, Satoshi, 3,683,049.

Maitenaz, Bernard F., to Societe des Lunetiers. Ophthalmic lenses with a progressively varying focal power. 3,687,528, 8-29-72, Cl. 351-169.000.

Majcher, John: *See*—
Cellerini, Albert T.; Majcher, John; and Paton, Charles R., 3,681,545.
Flick, Robert H.; Thomas, Glenn R.; and Majcher, John, 3,657,672.

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Majesco, Inc.: *See*—
Hao, Shya; Chasen, Alvin M.; and Miller, Alan M., 3,707,149.

Majesko, George A., to Driver, Wilber B., Company. Machinable alloys. 3,647,424, 3-7-72, Cl. 75-123.

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Majewski, Helmut W., to Stauffer Chemical Company. Potassium pyrophosphate peroxyhydrates and method of preparing the same. 3,650,705, 3-21-72, Cl. 23-315.

Majewski, Martin: *See*—
Bock, Ernst; Majewski, Martin; and Bartels, Wilhelm, 3,653,246.

- Majewski, Richard M.: *See*—
Huffman, Donald; and Majewski, Richard M., 3,704,889.
- Majewski, Theodore E.; and Easterly, James P. Salicylic acid and halo-substituted salicylic acid salts of oxydianiline. 3,689,536, 9-5-72, Cl. 260-501.180.
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Foster, Edwin E.; Foster, Wilbur A.; and Foster, Thomas E., 3,699,673.
- Majima, Azusa: *See*—
Kimura, Takashi; Majima, Azusa; Hamamoto, Hiroshi; and Awano, Yoji, 3,674,472.
- Majima, Kanji; Takei, Kensuke; and Oku, Masayuki, to Kao Soap Co., Ltd. Process for preparing light-colored, long-chain olefin sulfonates. 3,660,472, 5-2-72, Cl. 260-513.
- Majima, Kanji; and Morita, Goro, to Kao Soap Co., Ltd. Process for preparing purified linear alkylate bottom. 3,677,934, 7-18-72, Cl. 208-323.000.
- Majima, Kanji; Izumi, Kaichi; and Watanabe, Takao, to Kao Soap Co., Ltd. Method of evaluating oil-soluble dispersants. 3,681,975, 8-8-72, Cl. 73-64.000.
- Majima, Kazu: *See*—
Wakamatsu, Hisato; Ando, Noriyoshi; and Majima, Kazu, 3,653,726.
- Majkrzak, Charles P.; and Polgar, Michael S., to International Telephone and Telegraph Corporation. Method of producing a nozzle for a turbogenerator. 3,704,499, 12-5-72, Cl. 29-157.00c.
- Majkus, Vladimir: *See*—
Kliment, Karel; Vacik, Jiri; Ott, Zdenek; Majkus, Vladimir; Stol, Miroslav; Stoy, Vladimir; and Wichterle, Otto, 3,689,634.
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Yancey, Le Roy D., 3,670,117.
- Major, Harold W., Jr., to Perkin-Elmer Corporation. The. Ion kinetic energy analysis. 3,673,404, 6-27-72, Cl. 250-41.9me.
- Major, Harry. Hot test connector for internal combustion engines. 3,655,225, 4-11-72, Cl. 285-311.
- Majors, Oliver W. Lead-through device. 3,643,287, 2-22-72, Cl. 16-2.
- Majzlin, Gregory. Intra-uterine cauterizing device. 3,645,265, 2-29-72, Cl. 128-303.13.
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Khcheian, Khachik Egorovich; Revenko, Olga Mikailovna; Tikhonova, Margarita Petrovna; Polkovnikova, Antonina Grigorievna; and Mak, Nikolai Emelianovich, 3,634,487.
- Makabe, Hideki: *See*—
Kubodera, Toshiya; Hara, Tasuku; and Makabe, Hideki, 3,647,390.
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- Makabe, Kazuo, to Daichi Yakuhin Sangyo Kabushiki Kaisha. Compound of germanic acid and cysteine. 3,674,823, 7-4-72, Cl. 260-429.00r.
- Makachev, Nikolai Ivanovich; and Parshin, Alexei Nikolaevich. Pneumatic rapier for inserting weft thread into warp sheds. 3,677,304, 7-18-72, Cl. 139-127.00p.
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- Makarov, Egor Maximovich: *See*—
Nekrasov, Nikolai Nikolaevich; Blinichikov, Alexandr Lvovich; Kazansky, Vasily Leonidovich; Besedin, Alexandr Fedorovich; Krikunenko, Anatoly Filipppovich; Makarov, Egor Maximovich; Zemskov, Alexei Lavrentievich; Afinogenov, Fridrikh Ivanovich; Kirichenko, ergei Pavlovich; and Kulikov, Alexei Andreevich, 3,681,003.
- Makarov, Gleb Nikolaevich; Zhitov, Boris Nikolaevich; Zagorets, Anatoly Mikhailovich; Korolev, Jury Germanovich; Syskov, Konstantin Ivanovich; Filonenko, Jury Yakovlevich; Dvorin, Semen Semenovich; Lerner, Ruvim Zinovievich; Mustafin, Fuat Akhtemovich; Semnov, Alexandr Semenovich; Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich. Furnace for continuous heat processing of various materials. 3,667,746, 6-6-72, Cl. 266-21.
- Makarov, Valery Nikolaevich: *See*—
Voitsekhovsky, Bogdan Vyacheslavovich; Zuev, Alfred Alexandrovich; Plaxin, Vladimir Nikolaevich; and Makarov, Valery Nikolaevich, 3,673,849.
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- Makas, Albert S., to Polaroid Corporation. High order wave plate correction of polariscopic effects in windows having infrared filtering. 3,663,089, 5-16-72, Cl. 350-147.
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Rambacher, Paul; and Make, Siegfried, 3,679,694.
- Makela, Aarne Olavi, to Ahlstrom, A., Osakeyhtio, Karhula Works. Method and apparatus for pressure control of a paper machine pressure head box. 3,649,446, 3-14-72, Cl. 162-212.
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- Makhataadze, Iosif Konstantinovich: *See*—
Kiselev, Anatoly Efimovich; Mgebrishvili, Nadar Nikolaevich; Rokva, Marlen Mikhailovich; Makhataadze, Iosif Konstantinovich; Kakhiani, Shalva Viktorovich; Oganov, Sergei Ivanovich; Bakuradze, Georgy Valeryanovich; and Badalov, Petr Mikhailovich, 3,648,475.
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Ioffe, Benjamin Alexandrovich; Mikelson, Artur Eduardovich; Makhlin, Aron Judovich; Lapidus, Mikhail Khaimovich; Salnikov, Jury Nikolaevich; Kazhe, Alexandr Zhanovich; and Trushelis, Ivan Avgustovich, 3,651,439.
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Abrahami, Shoshana; Molcho, Aharon; and Wachs, Reuven, 3,652,718.
- Maki, Akio: *See*—
Umamoto, Susumu; Maki, Akio; and Nikamura, Keiji, 3,654,270.
- Maki, Edward W.: *See*—
Thomas, Bobby E.; and Maki, Edward W., 3,656,477.
- Maki, Hironobu: *See*—
Yoshikawa, Takayuki; Maki, Hironobu; and Kamiya, Tadao, 3,631,638.
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Sendrowski, Edward J.; and Maki, Jacob K., 3,651,673.
- Maki, John O. Drip dryer for drip dry clothing. 3,675,338, 7-11-72, Cl. 34-239.000.
- Maki, Kenji: *See*—
Yamaguchi, Hiroyuki; Tuji, Katsuyoshi; Maki, Kenji; and Shimonishi, Isao, 3,679,355.
- Maki, Michiyoshi: *See*—
Kamiyama, Takamitsu; and Maki, Michiyoshi, 3,645,808.
- Maki, Shin: *See*—
Shimano, Akira; Maki, Shin; Ohyama, Katsuzi; and Uchiyama, Hiromichi, 3,650,542.
- Maki, Yoshiyuki: *See*—
Emoto, Masayuki; and Maki, Yoshiyuki, 3,698,956.
- Makida, Shigeo: *See*—
Kobayashi, Tsuneo; Morita, Ken-Ichi; Kitagawa, Hiroshi; Yokoyama, Toshimitsu; and Makida, Shigeo, 3,644,375.
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Togashi, Shozo; Makijima, Yoshijima; Tanaka, Ikuo; and Narita, Kaoru, 3,643,396.
- Makimoto, Kupinobu: *See*—
Hasegawa, Tokushige; Makimoto, Kuninobu; Nihei, Seiji; and Takahira, Jiro, 3,672,868.
- Makimoto, Tsugio: *See*—
Okabe, Takahiro; Nagata, Minoru; and Makimoto, Tsugio, 3,707,036.
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Gebhart, Herbert J., Jr.; and Makin, Earle C., Jr., 3,701,812.
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Takahashi, Toshimasa; Takaichi, Moriyuki; Makino, Hiroshi; and Aoki, Toshikazu, 3,658,730.
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- Makino, Shinichi: *See*—
Kameoka, Akio; Nakamura, Shinichi; Makino, Shinichi; Endoh, Kenjiro; and Kuriyagawa, Mamoru, 3,668,294.
- Makino, Yoichi: *See*—
Tachibana, Sachihiko; Nakai, Susumu; Makino, Yoichi; Matsumura, Hisashi; Tabuchi, Kimitaka; Hiraoka, Michio; Akoh, Shigeichi; and Orito, Hiroshi, 3,644,078.
- Makino, Yoshimi; Higuchi, Shigetaka; Kamiya, Iwao; and Masuya, Yoshikazu, to Sony Corporation. Cobalt ferrite magnetic powder for tape recording. 3,654,163, 4-4-72, Cl. 252-62.63.
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- Makipirtti, Simo Antero Iivari Nakkila: *See*—
Malmstrom, Rolf Einar Pori; and Makipirtti, Simo Antero Iivari Nakkila, 3,633,649.
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Sumimoto, Shinzaburo; Makisumi, Yasuo; and Kano, Hideo, 3,660,383.
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- Makita, Zenji: *See*—
Fujii, Saburo; Saji, Yasuo; Yamada, Kozo; Makita, Zenji; and Ikegami, Shigeru, 3,689,621.
- Maklary, Joseph R.: *See*—
Felt, Adolph E.; and Maklary, Joseph R., 3,665,742.
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Blachut, Theodore J.; Marsik, Zbynek; and Makow, David M., 3,692,406.
- Makower, Samuel J.; and Cautilli, Philip A. Process for preparing emulsion interpolymers containing vinyl chloride and ethylene, having improved heat stability. 3,689,447, 9-5-72, Cl. 260-29.6rb.
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- Walter, George, 3,668,606.
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De Pierre, Vincent; Male, Alan T.; and Saul, George, 3,693,419.
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Plonsker, Larry; Perilstein, Warren L.; and Malec, Robert E., 3,700,598.
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Giannini, Mario, 3,704,322.
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Olach, Louis; and Maleski, Gregory J., 3,649,774.
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Young, Richard W.; and Malin, Murray E., 3,672,752.
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Antonetti, Vincent W.; Maling, George C., Jr.; Pascuzzo, Albert L.; and Wise, Russell E., 3,688,867.
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Leibfritz, Kurt W.; and Malinowski, Lester W., 3,633,624.
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Lange, Joachim; Malitschek, Otto; and Mader, Fred, 3,666,500.
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Skelton, Charles Roger; and Malkani, Dalip Tarachand, 3,650,135.
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Raviv, Samuel; Rabinovitz, Elsa; and Malkiely, Shimon, 3,635,805.
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Ritchie, Kim; and Malkiewicz, Yvonne Cecile, 3,666,729.
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Kennedy, Alexander W.; and Malkin, Irving, 3,687,739.
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Castonguay, Roger A.; Hanley, Bernard C.; Mallahan, Francis J.; and Wenckus, Joseph F., 3,639,718.
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De Luca, Carlo Bruno; and Mallanik, Allan, 3,656,057.
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Rhoades, Lee A.; and Mallard, Manley T., 3,681,514.

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Grutsch, James F.; and Mallatt, Russell C., 3,675,779.
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Bargain, Michel; Gruffaz, Max; Laurent, Serge; and Mallet, Maurice, 3,679,639.
- Gattus, Jean; and Mallet, Maurice, 3,671,481.
- Mallet, Victorin: See—
Ahmed, Muktar; and Mallet, Victorin, 3,652,712.
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Dumanowski, Ferdinand J.; Malley, William G.; and Cayton, David W., 3,656,488.
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Miller, Robert C.; Carr, Walter J., Jr.; and Mallick, George T., Jr., 3,707,672.
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Baron, Frank A.; Benner, Roland G.; and Weinberg, Alan E., 3,694,508.
- Baron, Frank A., 3,703,598.
- Bertsch, Hugh C.; and Russo, Michael E., 3,661,792.
- Betz, Norman L.; and Stepaniuk, Nickolas J., 3,674,501.
- Brown, James L.; Himebaugh, Donald T.; and Montgomery, James R., 3,655,985.
- Chapman, Douglas W.; McKellin, Wilbur H.; and Overley, R. Dean, 3,656,982.
- Grummon, Glenn D.; and Wiegert, Philip E., 3,678,067.
- Leiffield, Robert F., 3,684,929.
- Montgomery, James R.; and Struttman, Lloyd G., 3,655,981.
- Perry, William C.; Puttock, Eugene F.; and Schreiber, Ronald S., 3,705,933.
- Piper, Roger D., 3,637,519.
- Piper, Roger D., 3,668,141.
- Vacira, Michael; Smith, Michael; and Tejera, Louis, 3,684,455.
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Gray, Allan P.; Heitmier, Donald E.; and Goldberg, Morton E., 3,632,767.
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Kurtz, Anthony D.; Mallon, Joseph; and Gravel, Charles, 3,654,579.
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Dobo, Emerick J. Cary; Kim, Don W.; and Mallonee, William C., 3,705,068.
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Mathews, John P., 3,657,021.
- Mallory, Charles W.: See—
Yang, Jen T.; Walter, Robert; and Mallory, Charles W., 3,694,353.
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Plume, Alfred, Jr., 3,646,605.
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Heaton, Richard A.; and Mallory, James D., 3,703,363.
- Mallory, P. R., & Co. Inc.: See—
Anderson, Daniel J., 3,670,212.
- Angelovich, Stephen J., 3,694,267.
- Bassett, Ronald M.; and Gluth, Joseph F., 3,694,591.
- Blue, Philip L., 3,685,134.
- Booe, James M., 3,649,892.
- Braiman, Jerry; and Greskamp, John B., 3,680,203.
- Broverman, Irwin, 3,641,298.
- Brown, William R.; Bang, Veron E.; and Brown, William R., 3,700,838.
- Burns, Charles L., 3,632,940.
- Chestnut, Benjamin F.; and Stafford, Richard W., 3,664,198.
- Christiansen, Paul J.; and Wallace, Robert F., 3,648,118.
- Clune, Richard R.; and Kaye, Gordon E., 3,660,169.
- Dey, Arabinda N.; and Sullivan, Bernard P., 3,655,585.
- Dey, Arabinda N., 3,658,592.
- Dey, Arabinda N.; and Holmes, Robert W., 3,679,484.
- Dey, Arabinda N., 3,681,143.
- Dey, Arabinda Narayan; and Bro, Per, 3,681,144.
- Greskamp, John B.; and Evans, William J., 3,648,337.
- Greskamp, John B., 3,697,824.
- Griffiths, Leonard B.; and Krock, Richard H., 3,655,447.
- Griffiths, Leonard B.; and Shen, Yuan-Shou, 3,704,182.
- Haarbye, Fredrick O., 3,666,428.
- Haarbye, Fredrik O.; and Murphy, Peter C., 3,674,446.
- Hill, Kenneth R., 3,653,966.
- Illman, Peter; and Roberts, Arthur G., 3,648,529.
- Jones, Lewis E.; and Bernhardt, Daniel W., 3,699,278.
- Kaye, Gordon E., 3,661,649.
- Kaye, Gordon E., 3,669,753.
- Kirby, Joseph L.; and Puerner, George O., 3,644,865.
- Kirschner, John G., 3,694,710.
- Klein, Gerhart P., 3,640,854.
- Klein, Gerhart P.; and Wingood, Ivan L., 3,641,399.
- Klein, Gerhart P., 3,654,117.
- Klein, Gerhart P., 3,667,002.
- Klein, Gerhart P.; and Wingood, Ivan L., Jr., 3,688,161.
- Klein, Gerhart P., 3,704,872.
- Koons, Edwin R., 3,638,076.
- Koons, Edwin Russell; Parker, Ralph G.; and Rupley, Jeffrey P., 3,634,048.
- Koons, Edwin Russell; Parker, Ralph G., Jr.; and Rupley, Jeffery P., 3,698,880.
- Krock, Richard H.; and Richmond, William J., 3,657,803.
- Krock, Richard H.; and Richmond, William J., 3,657,804.
- Krock, Richard H.; and Richmond, William J., 3,687,737.
- Krock, Richard H.; Shen, Yuan Shou; and Zdanuk, Edward J., 3,694,198.
- Larsen, Earl I.; and Krock, Richard H., 3,668,755.
- Linn, Wallace L.; and Volland, Elmo W., 3,704,351.
- Lybrook, Malcolm T., 3,634,642.
- Mallory, Henry Rogers, 3,656,061.
- Mullin, William F., 3,641,488.
- Murphy, Peter C.; and Lawrence, J. Richard, 3,669,656.
- Pearce, Godfrey R.; and Breeden, William J., 3,686,536.
- Potter, Bronson M., 3,697,983.
- Puerner, George O., 3,665,137.
- Puerner, George O., 3,691,504.
- Ralston, Robert E.; and Ko, Yung Ling, 3,660,168.
- Ralston, Robert E.; and Ko, Yung Ling, 3,663,301.
- Ralston, Robert E.; and Ko, Yung Ling, 3,669,754.
- Stafford, Richard W.; and Cuckovic, Milenko, 3,640,142.
- Straub, Paul J., 3,699,277.
- Sussingham, George J.; and Fagan, Franklin G., Jr., 3,665,178.
- Volland, Elmo W.; and Jones, Lewis E., 3,649,783.
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- Webster, Robert A., 3,686,538.
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- Loukes, David Gordon; and Maltman, William Ramsey, 3,632,322.
- Maltsev, Albert Alexandrovich: *See—*
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- Lees, Harold D.; Evans, Paul F.; Maltz, Martin S.; and Vipond, Edward W., 3,692,659.
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- Gross, Franz; Kahl, Paul; and Mammach, Peter, 3,646,485.
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- Thomas, Robert M.; and Mamuzic, Rastko I., 3,661,947.
- Thomas, Robert M.; and Mamuzic, Rastko I., 3,663,619.
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- Sigoda, Victor J., 3,659,537.
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- Moses, Harry; Eggenberger, Delbert N.; Halverson, Steven L.; and Managan, William W., 3,702,565.
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- Nagafuchi, Kazumi; Inada, Hitoshi; Ohmura, Nobuaki; Manago, Seiji; Tsunashima, Asaji; and Hazu, Masataka, 3,636,787.
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- Wesch, Ludwig, 3,635,775.
- Wesch, Ludwig, 3,663,264.
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- Gaines, Jerry L.; Ebert, Paul J.; Mancebo, Lloyd; and Cook, Frederick D., 3,665,236.
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- Collins, John J.; Conviser, Stephen A.; Anderson, Richard A.; and Manchanda, Krishan D., 3,660,967.
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- Clay, John Armstrong, 3,671,954.
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- Coll, Edward T.; Braschwitz, Harold J.; Grace, Charles; Manchester, Michael J.; and Hunter, Stephen A., III, 3,638,179.
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- Franco, Gianfranco; Mancini, Carlo; and Pulacci, Angiolo, 3,638,000.
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- Thoms, William C.; and Mancini, Lloyd, 3,665,375.
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- Paulson, Erland G.; and Mandala, Charles G., 3,701,391.
- Mandel, Alan P.: *See—*
- Sennett, Kenneth H.; and Mandel, Alan P., 3,646,247.
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- Edwards, Leon C.; Mandel, Harvey B.; and Tillstrom, Carl R., 3,650,274.
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- Boostrom, Roy E.; Mandell, Arman; and Malter, Lewis, 3,701,603.
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- Edwards, Garry; Mandler, Walter; and Wagner, Erich, 3,649,104.
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Knight, Paul A.; Saunders, James R.; and Stapleton, Fred E., 3,700,066.
Powell, Johnnie L., 3,645,410.
Worley, John K., 3,683,398.
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Slominski, Walter V.; Kitchen, John P.; and Mandusky, Jack C., 3,680,157.
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Kolbel, Herbert; Manecke, Georg; and El-Ghatta, Hussain Kashif, 3,692,729.
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Hild, Henry F.; Manecke, Siegfried E.; and Shaw, James L., 3,665,362.
Rosenberg, David M.; and Manecke, Siegfried E., 3,665,363.
Rosenberg, David M.; and Manecke, Siegfried E., 3,673,535.
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Hofer, Lawrence John Edward; and Manes, Milton, 3,670,424.
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Clement, Rene; Manfredi, Pierre; and Roulliy, Roger, 3,701,444.
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Tomlin, Clive Dudley Spencer; and Mangalji, Anil Sunderji, 3,644,388.
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Carson, William N., Jr.; and Manganaro, James L., 3,703,358.
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Meeks, Walter Melvin, 3,650,570.
- Mangels, Theodore F.: See—
Sloan, Albert H.; McLelland, Jack I.; Mangels, Theodore F.; and Jantzen, Robert J., 3,683,521.
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Tonies, Lawrence A.; and Teasdale, James R., 3,646,327.
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Tonies, Lawrence A., 3,659,261.
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Berman, Elliot; Maher, Robert H.; and Manhardt, John R., 3,634,083.
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Erben, Klaus Dieter; Kroy, Walter; Manhart, Sigmund; and Mehnert, Walter E., 3,691,539.
Kroy, Walter; Manhart, Sigmund; and Mehnert, Walter Erich, 3,693,169.
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De Bretagne, Yves; and Manier, Francis, 3,707,676.
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Radosavljevic, Svetislav M.; and Maniotes, John, 3,670,958.
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Ireland, Robert G.; Manis, Fred L.; and Teegarden, Ross W., 3,703,925.
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Pech, David J., 3,680,840.
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Fettingner, John G.; and Manizza, Guelfo A., 3,684,156.

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Hunter, James R.; Lazzarotti, Sebastian James; and Mann, Abe, 3,674,143.
Hunter, James R.; Dinerman, Bernard B.; Mann, Abe; and Schroeder, Franklin T., 3,696,946.
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Clark, Wilbur R.; and Mann, Freeman W., 3,691,701.
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Dalton, Wayne D.; Mackzum, Stanley C.; Mann, Friedrich H.; and Sensabaugh, Paul F., 3,644,873.
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Douglas, Beverly; and Mann, George V., 3,653,372.
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Cusato, Anthony J., 3,638,316.
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Taylor, Norman J.; Mann, Joseph K.; and Atwood, Allen W., 3,686,501.
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Fites, Larry L.; Mann, Kingsley M.; and Utrecht, Karl A., 3,702,132.
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Woodbridge, David D.; and Mann, Leland A., 3,671,741.
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Cameron, James A.; Lanzafame, Joseph; and Mann, Leonard E., 3,646,311.
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Bhaumik, Mani L.; and Mann, Michael M., 3,643,175.
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Moyle, Kenneth J.; and Mann, Richard S., 3,706,840.
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Coppens, Mattheus Johannes Martinus; and Mannaerts, Livinus Eduardus Maria Jozephus, 3,684,132.
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Waning, Hendrik; Mannens, Hubertus A.; and Schaapveld, Arnoldus A. W., 3,667,194.
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Breuer, Hans; Manner, Erich; and Michl, Karl-Heinz, 3,700,759.
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Bellmann, Manfred, 3,662,585.
Fiedler, Alfred; and Pepperhoff, Werner, 3,647,575.
Frohlich, Josef; and Leguyt, Jacob, 3,649,056.
Frohlich, Josef; and Leguyt, Jacob, 3,675,680.
Leier, Karl Otto; Spohr, Hans Werner; and von Riegen, Johannes, 3,704,978.
Lingg, Gerhard; and Hirth, Alfred, 3,705,001.
Lohmann, Albert, 3,707,342.
Meyer, Herbert, 3,662,999.
- Petersen, Ulrich; Von Chiari, Ernst; and Brutsch, Wilhelm, 3,661,005.
- Petersen, Ulrich; and Grandin, Friedrich-Hans, 3,673,836.
- Petersen, Ulrich, 3,700,027.
- Poeste, Hans-Peter; and Vogt, Gerd, 3,707,439.
- Sander, Otto; and Ulpe, Alexander, 3,668,875.
- Schiefer, Peter; and Findeisen, Bernd, 3,667,296.
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- Schrewe, Hans, 3,669,181.
- Speith, Georg; Landgraf, Helmut; and Forster, Herbert, 3,648,761.
- Vogt, Gerd; and Schrewe, Hans, 3,645,323.
- Vogt, Gerd; and Poeste, Hans-Peter, 3,698,466.
- Vogt, Gerd, 3,707,180.
- Von Hollen, Dieter; and Holder, Heinz, 3,697,718.
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Witschel, Klaus; and Schone, Dieter, 3,656,269.
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Lingg, Gerhard; and Hellermann, Eberhard, 3,704,773.
Lings, Gerhard; and Hellermann, Eberhard, 3,666,073.
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Grober, Kurt, 3,679,856.
Himmeler, Conrad Richard, 3,669,570.
Lohmann, Albert, 3,671,162.
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Pfeiffer, Gerd; Biller, Horst; Schrey, Claus; and Schmitz, Alfred, 3,645,121.
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Dolev, Amior; Mannheim, Chaim H.; and Schimmel, Moshe, 3,692,546.
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Johnston, Norris; and Latker, Mark, 3,667,601.

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Baker, Donald H.; Brickner, David R.; and Manning, Kenzel P., 3,691,643.
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Anderson, Paul L.; Houlihan, William J.; and Manning, Robert E., 3,637,690.
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Brooks, Warren B.; Dean, James T.; Manning, William F.; Rupp, Lewis A.; and Talley, William A., Jr., 3,682,242.
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Brunner, Fred William, 3,667,971.
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Mannion, Gerald F.; and Mannion, James R., 3,668,822.
- Mannix Co., Ltd.: *See—*
Berg, Lorne D.; and Rymes, John E., 3,683,816.
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Peppin, Richard A.; and Trottochau, Lawrence D., 3,698,324.
- Mannucci, Enzo Sergio: *See—*
Linoli, Gianni; and Mannucci, Enzo Sergio, 3,684,451.
- Manokhin, Anatoly Ivanovich: *See—*
Rutes, Viktor Savelievich; Petrov, Vladimir Konstantinovich; Teterian, Aram Aristagovich; Chigrinov, Mikhail Grigorievich; Ballad, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, Anatoly Ivanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosochenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.
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Schwartz, Robert; Manolache, Constantin; Tannenbaum, Marcel; Vasile, Gheorghe; Rey, Vasile; Sima, Constantin; and Cambureanu, Aurel, 3,692,277.
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Aguinet, Gerard; Manoury, Jean; and Martin, Edouard, 3,658,472.
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Kohler, Bernard Claude; Manoussi, Gerard Philippe; and Tournon, Serge Auguste, 3,653,006.
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Goto, Kenjiro, 3,705,785.
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Price, Albert E.; and Mansen, Robert L., 3,685,458.
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Carlson, John H.; Mansfield, Donald L.; and Robinson, Hugh A., 3,641,706.
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Broadbent, Graham; and Mansfield, John Rickard, 3,695,113.
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Derror, Fred L., 3,671,160.
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Erfurth, Henning; and Mansmann, Manfred, 3,689,214.
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Shortway, Harry A.; Graham, Alan A.; Mansolillo, Robert D.; and Dobry, Joseph F., 3,660,187.
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Carey, Lewis S.; and Mansour, George L., 3,702,935.
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Schulz, Gerald L.; and Mansur, Raymond T., 3,673,041.
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Eccles, Anthony John; Mant, Alistair Donald; and Shorthouse, Barry Owen, 3,695,115.
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Schwanck, Gunter; Ruster, Heinz; Gruger, Wolfgang; and Manteuffel, Ernst, 3,657,487.
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Gor, Vishnu J.; and Manuel, Ernesto H., 3,647,520.
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Hale, Douglas; Manuel, James C.; and Beck, Nicholas R., 3,704,135.
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Gardner, Irwin J.; and Manuel, Thomas A., 3,644,315.
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Gross, Gabriel, 3,647,200.
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Tesson, Gerard, 3,702,351.
- Manufacture de Produits Pharmaceutiques A. Christiaens Societe Anonyme: *See—*
De Ridder, Rene Rachel, 3,646,038.
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Patrignani, Theo, 3,678,774.
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Gasser, Francois W.; and Girard, Pierre L., 3,673,790.
- Girard, Pierre, 3,691,755.
- Manufacture Francaise d'Armes et Cycles de Saint Etienne: *See—*
Drevet, Georges, 3,636,646.
- Manufacture Quenot Mabo: *See—*
Quenot, Andre, 3,673,692.
- Quenot, Andre, 3,675,334.
- Manufacturers Brush Company, The: *See—*
Schofield, Arthur T., 3,641,611.
- Schofield, Arthur T., 3,643,281.
- Schofield, Arthur T., 3,704,915.
- Schofield, Arthur T., 3,706,329.
- Manufactures Jean-Baptiste Martin, Andre Charbin & Cie: *See—*
Perrier, Augustin, 3,651,665.
- Manufactures Martin, Jean-Baptiste, —: *See—*
Perrier, Augustin, 3,660,992.
- Manuilov, Jury Grigorievich: *See—*
Solntsev, Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
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United States of America, National Aeronautics and Space Administration, 3,649,935.
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Andersen, Bjorn, 3,670,108.
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Andersen, Bjorn, 3,670,108.
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Matzner, Markus; McGrath, James E.; Manyik, Robert M.; and Walker, Wellington E., 3,696,075.
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Turner, Lyman H.; and Manzek, Rhinehart A., 3,669,447.
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Nakanishi, Hiroshi, 3,649,399.
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Dewey, Raymond D.; Mapes, Robert S.; and Jones, Garth S., 3,674,926.
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Lynes, Dennis Joseph; and Mar, Jerry, 3,699,540.
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Cahn, Jean, 3,670,081.
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Moxness, James G.; Nelson, Harold H.; and Mara, Edward A. O., 3,706,489.
- Mara, Inc.: *See—*
Schmidt, Charles C., 3,635,107.
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Sturmo, Giuseppe; and Maran, Mario, 3,690,165.
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- Schmitt, Henri Francois Marie; and Marande, Claude, 3,695,382.
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Giachetti, Alfredo; Maranghi, Enzo; and Piericci, Angiolo, 3,685,317.
- Marans, Nelson S.: *See—*
Jefferson, Donald E.; and Marans, Nelson S., 3,681,131.
Los, Lenore; Wood, Louis L.; and Marans, Nelson S., 3,634,364.
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Savoca, Paul C.; and Marasco, Anthony D., 3,641,478.
Savoca, Paul C.; and Marasco, Anthony D., 3,688,244.
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Goldberg, Ira I.; Marasco, Paul M.; and Pfeiffer, Kenneth R., 3,686,478.
- Marason, Gabriel, Jr.: *See—*
Baginski, Albert R.; Benson, John T.; DeGelder, Jacob; and Marason, Gabriel, Jr., 3,645,037.
Baginski, Albert R.; De Gelder, Jacob; and Marason, Gabriel, Jr., 3,646,703.
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Widstrand, John C., 3,671,790.
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Farin, William G., 3,638,708.
- Marathon Golf Cars Ltd.: *See—*
Gyori, Louis, 3,696,279.
- Marathon Manufacturing Company: *See—*
Fitchman, Arthur E.; and Nathe, Raymond J., 3,640,775.
- Marathon Oil Company: *See—*
Aragbright, Perry A.; Erwin, Virgel G.; and Phillips, Brian L., 3,689,651.
Aragbright, Perry A.; and Rider, Harold D., 3,641,024.
Aragbright, Perry A.; and Presley, C. Travis, 3,682,245.
Aragbright, Perry A.; Presley, C. Travis; and Bixel, Harold C., 3,695,356.
Aragbright, Perry A.; Hummel, Jack L.; and Presley, C. T., 3,705,627.
- Coleman, John R., Jr.; Hall, David W.; and Dormish, Frank L., 3,636,124.
- Davis, John A., Jr.; and Kunzman, William J., 3,658,130.
- Davis, John A., Jr., 3,706,659.
- Davis, John A., Jr.; and Rhudy, John S., 3,707,190.
- Dixon, William H., 3,648,775.
- Dixon, William H., 3,648,776.
- Dreher, Karl D.; and Sydansk, Robert D., 3,642,067.
- Dreher, Karl D.; and Holmes, Michael, 3,643,738.
- Duke, Roy B.; and McGrew, David P., 3,651,121.
- Duke, Roy B., Jr.; and Echelberger, Larry M., 3,646,018.
- Duke, Roy B., Jr., 3,706,811.
- Erlougher, Robert C., Jr., 3,648,772.
- Gogarty, William B., 3,648,773.
- Gogarty, William B.; and Bush, William P., 3,687,609.
- Gotshall, William W., 3,671,613.
- Gotshall, William W., 3,699,216.
- Gotshall, William W., 3,704,276.
- Hall, David W., 3,651,166.
- Hall, David W., 3,663,643.
- Hall, David W.; and Hurley, Ed, Jr., 3,689,580.
- Hayes, John B.; and Knight, Bruce L., 3,677,344.
- Johnson, Irvin D.; Togneri, Mauro G.; and Kaufmann, Eduard P., 3,693,163.
- Jones, Stanley C., 3,682,247.
- Kelly, Joe T., 3,637,018.
- Kelly, Joe T.; and Hummel, Jack L., 3,637,022.
- Kelly, Joe T.; and Poettmann, Fred H., 3,644,194.
- Kelly, Joe T.; and Poettmann, Fred H., 3,648,771.
- Kelly, Joe T.; and Poettmann, Fred H., 3,660,268.
- Kirk, Walter B., 3,648,774.
- Kirk, Walter B., 3,661,210.
- Knight, Bruce L., 3,667,545.
- Knight, Bruce L., 3,670,818.
- Knight, Bruce L., 3,690,377.
- Knight, Bruce L., 3,707,187.
- Larsen, Arthur L., 3,645,896.
- Larsen, Arthur Lee, 3,639,110.
- Merrill, La Vaun S., Jr.; and Schilson, Robert E., 3,676,517.
- Milton, Harry W., Jr., 3,667,548.
- Norton, Charles J.; and Diehl, Byron C., 3,639,369.
- Norton, Charles J.; and Diehl, Byron C., 3,655,736.
- Norton, Charles J.; and Falk, David O., 3,670,820.
- Norton, Charles J.; and Falk, David C., 3,684,014.
- Norton, Charles J.; and Falk, David O., 3,692,113.
- Oleszko, Thaddeus J.; and Walker, Lynn P., 3,649,212.
- Oleszko, Thaddeus J., 3,652,426.
- Oleszko, Thaddeus J.; and Walker, Lynn P., 3,674,890.
- Olson, Danford H.; and Bailey, George M., 3,689,578.
- Poettmann, Fred H.; and Jones, Stanley C., 3,639,277.
- Presley, C. Travis; and Argabright, Perry A., 3,684,011.
- Ramirez, W. Fred, Jr.; and Vestal, Charles R., 3,702,003.
- Ross, Rupert D., 3,653,442.
- Roszelie, Wayne O., 3,688,844.
- Schilson, Robert E., 3,652,404.
- Sterrett, Eugene L., 3,682,346.
- Svaldi, Marvin A., 3,707,194.
- Sydansk, Robert D.; and Dreher, Karl D., 3,648,770.
- Turzilla, Lee A., 3,690,109.
- Webb, Thomas O., 3,684,015.
- White, James E., 3,638,176.
- White, James E., 3,683,326.
- Wygant, Noel D., 3,695,108.
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Ullmann, Werner; Derighetti, Renato; and Marazzi, Valentino, 3,662,182.
- Marbach, Walter V.: *See—*
Urbatis, Algimantas P.; Schenk, Bernard H.; Risany, Joseph J.; and Marbach, Walter V., 3,704,483.
- Marbaix, Gaston E., Limited: *See—*
Hillier, Malcolm Edwin, 3,664,563.
- Marbelite Company, Inc.: *See—*
Cahill, Michael R., 3,648,235.
Cane, Philip, 3,688,253.
Siklos, Gregory, 3,662,331.
Siklos, Gregory, 3,665,382.
Siklos, Gregory; and Rudden, James B., 3,670,302.
- Marbet, Roman: *See—*
Gutmann, Hugo; Marbet, Roman; and Schwieter, Ulrich, 3,687,990.
Lamparsky, Hans Dietmar; and Marbet, Roman, 3,670,026.
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Horn, Cornelis Jacob; Kats, Mindert; Marcelinus, Sigibertus; and Van Uffelen, Catherinus, 3,691,934.
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Krebs, Frederick G.; Marcey, Stephen D.; and Redman, Samuel A., 3,635,156.
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- March Manufacturing Company, mesne: *See—*
Lalley, Donald P., 3,700,372.
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Grin, Michel; and Marchal, Francois, 3,699,297.
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Combe, Christian; Clouet, Andre; Marchal, Michel; Villard, Michel; and Grenier, Pierre, 3,658,680.
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Goldstein, Milton; Hair, George R.; Kutzenco, Jack; and Marchand, Jacques J., 3,655,488.
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Koch, Werner G.; Marchell, Robert H.; and Redmond, William G., 3,646,754.
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Peterson, John A.; and Marciniak, Harry W., 3,634,311.
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- Marcinkowski, Mieczyslaw: *See—*
Buckler, Ernest J.; Coulthart, Hugh K.; Mc Cracken, Nathan J.; and Marcinkowski, Mieczyslaw, 3,637,635.
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Lynch, John F.; Scott, William Bryson; and Paoletti, Alfred J., 3,671,207.
Lynch, John F.; Moser, Murtha E.; and Nichols, Raymond A., 3,687,288.
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Erwin, Eugene S.; and Marco, Gino J., 3,658,962.
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Lynch, John F.; Scott, William Bryson; and Paoletti, Alfred J., 3,671,206.
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Robinson, Charles W.; Merklin, Kenneth E.; and Finlayson, Francis D., 3,693,795.
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Cresswell, Richard, 3,665,482.
Davies, Robin Evan, 3,651,410.
- Deveson, John Harwood; and Butt, Anthony John, 3,637,937.
- Duerden, Francis, 3,699,527.
- Ellis, Alfred Brian Edwin; and Shead, Colin James, 3,693,170.
- Fenton, Roger Wakfield, 3,697,976.
- Heightman, Anthony Norman, 3,699,239.
- Hoggar, Clive William, 3,668,656.
- Lewis, John Henry Reginald, 3,642,227.
- Loose, Peter William, 3,700,794.
- Mark, John Richard, 3,707,719.
- Nolan, Sean Olic, 3,680,148.
- Robinson, Trevor Howard; Cameron, Alan William; and Fitz, Philip Jonn, 3,662,189.
- Ryley, Derek Vernon; and Claydon, Gyongyver, 3,700,789.
- Ryley, Derek Vernon; and Claydon, Gyongyver, 3,700,790.
- Sosin, Boleslaw Marian, 3,701,038.
- Stevens, Arthur Dexter, 3,681,578.
- Terry, John Brian, 3,673,568.
- Wakeling, Peter John, 3,678,413.
- White, Colin Graham, 3,662,277.
- Wright, Derek Thomas, 3,668,305.
- Marconi Instruments Limited: *See—*
Lloyd, George Howard, 3,699,357.
McHattie, John Alexander, 3,668,572.
Viles, Roger Stanley, 3,684,977.
- Marconi, Walter: *See—*
Cesca, Sebastiano; Roggero, Arnaldo; and Marconi, Walter, 3,647,767.
Cesca, Sebastiano; Arrighetti, Sergio; and Marconi, Walter, 3,652,514.
Cesca, Sebastiano; Roggero, Arnaldo; and Marconi, Walter, 3,694,420.
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Chemtob, Elie M.; White, William R.; and Marcote, Rolando V., 3,675,773.
Chemtob, Elie M.; and Marcote, Rolando V., 3,685,652.
- Marcotti, Ettore. Amusement toy. 3,693,286, 9-26-72, Cl. 46-47,000.
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Kourtesis, John G.; and Marcoux, Leo, 3,676,211.
- Marcoux, Leo, to Texas Instruments, Incorporated. Self-regulated heating device. 3,646,315, 2-29-72, Cl. 219-210.
- Marcovitch, Jacob, to Rotary Profile Anstalt. High pressure rolling of workpieces. 3,643,485, 2-22-72, Cl. 72-96.
- Marcovitch, Jacob, to Rotary Profile Anstalt. Pressure roller apparatus for rock breaking. 3,645,579, 2-29-72, Cl. 299-75.
- Marcovitch, Jacob, to Rotary Profile Anstalt. Metal working. 3,656,332, 4-18-72, Cl. 72-77.
- Marcovitch, Jacob, to Rotary Profile Anstalt. Rolling articles. 3,663,977, 5-23-72, Cl. 10-26.
- Marcovitch, Jacob, to Rotary Profile Anstalt. Apparatus for rolling and forming articles. 3,685,331, 8-22-72, Cl. 72-190,000.
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Georgescu, Eugenia; Ghejan, Ion; Bugur, Victor; Zirna, Ion; Mazare, Theodora; Popescu, Elena-Lygia; Olteanu, Bujor; Marculescu, Nicolae; Filotti, Traian-Mircea; Barbul, Marius-Aurel; and Calin, Ion, 3,673,109.
- Marculewicz, Robert W.: *See—*
Strumor, Mathew A.; Rachwal, Ervin J.; Campbell, Douglas B.; and Marculewicz, Robert W., 3,639,059.
- Marcum, Alfred L., Jr.; Burns, Marvin; and Rodzen, Richard A., to United States of America, Air Force. Pressure suit joint system. 3,705,426, 12-12-72, Cl. 2-2,10a.
- Marcus, Dora. Child's toy. 3,693,283, 9-26-72, Cl. 46-16,000.
- Marcus, Douglas Larry; and Sayre, Clifford L., Jr. Mollusc clip. 3,656,458, 4-18-72, Cl. 119-4.
- Marcus, Ernst. Stepless variable transmission. 3,646,825, 3-7-72, Cl. 74-63.
- Marcus, Friedrich-Karl: *See—*
Rosenmund, Peter; and Grubel, Klaus, 3,687,962.
- Marcus, Henry J.: *See—*
Frankel, Milton B.; Gold, Marvin H.; and Marcus, Henry J., 3,644,494.
Frankel, Milton B.; Gold, Marvin H.; and Marcus, Henry J., 3,646,228.
Gold, Marvin H.; and Marcus, Henry J., 3,632,756.
Gold, Marvin H.; and Marcus, Henry J., 3,632,772.
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Gold, Marvin H.; and Marcus, Henry J., 3,632,781.
- Marcus, Ira R., to United States of America, Army. Coded tape and open contact sensing circuit. 3,666,925, 5-30-72, Cl. 235-61,11.
- Marcus, Konrad H.: *See—*
Zwiep, Theodore C.; Marcus, Konrad H.; and Weits, Ferdinand, 3,657,771.

- Marcus, Michael Jay, to Bell Telephone Laboratories, Incorporated. Time division switching system with time slot interchange. 3,700,819, 10-24-72, Cl. 179-15.0a.
- Marcus, Robert Boris: *See—*
Chang, Chuas Chung; Marcus, Robert Boris; and Wagner, Richard Siegfried, 3,687,745.
- Marcus, Sheldon H., to Standard Oil Company. Carboxy-bearing adduct polyol compositions containing tetrabromophthalic anhydride. 3,642,646, 2-15-72, Cl. 252-182.
- Marcy, Raymond, to Thomson-CSF. Electron-optical image tracing systems, particularly for use with laser beams. 3,632,205, 1-4-72, Cl. 355-53.
- Marcy, Raymond; Bouyguies, Jean; and Lacombe, Michel, to Thomson-CSF. Systems for accurately positioning an object in a plane by means of transitory movements. 3,692,413, 9-19-72, Cl. 356-106.000.
- Marcyan, Walter. Single station multi-purpose body exercising machine. 3,635,472, 1-18-72, Cl. 272-81.
- Mard, Kenneth C. Vibration isolation system. 3,690,607, 9-12-72, Cl. 248-20.000.
- Marden Anstalt: *See—*
Wadsted, Bengt, 3,684,476.
- Mardon, Austin; and Nielsen, Robert N., Jr., to American Nucleonics Corporation. Tunnel diode movement detector. 3,670,328, 6-13-72, Cl. 343-8.
- Mare, Arrigo. Refractory brick having oblique surface. 3,635,459, 1-18-72, Cl. 266-43.
- Marechal, Claude M.: *See—*
Audran, Roger G. L.; Dostes, Clude G.; and Marechal, Claude M., 3,687,677.
- Marek, Ludwig: *See—*
Schwab, Johann; Buchel, Kurt; Eder, Otto; Hascic, Wladimir; and Marek, Ludwig, 3,698,027.
- Marek, Miroslav; Pecka, Jan; Chmelir, Miroslav; and Roosova, Milena, to Ceskoslovenska akademie ved. Polymerization of isobutylene. 3,639,661, 2-1-72, Cl. 260-94.8.
- Maremont Corporation: *See—*
Anderson, Gordon C.; and Page, John D., 3,640,062.
Harmon, Albert D.; Anderson, Gordon C.; and Van Deusen, George S., 3,651,628.
McNally, Sellers B., 3,674,290.
McNally, Sellers B., 3,677,561.
Merck, James K., 3,656,289.
Merck, James K., 3,673,780.
Pray, Lester W.; and Zerfoss, Clinton C., 3,698,536.
Rocha, John Gonsalves, 3,680,432.
Wiegand, John A., 3,645,016.
- Marengo, Giuseppe: *See—*
Lanza, Franco; and Marengo, Giuseppe, 3,664,865.
- Mares, Jindrich: *See—*
Chvala, Bretislav; Janostik, Jaroslav; Mares, Jindrich; and Jerabek, Jan, 3,683,644.
- Mares, Vladimir, to Ceskoslovensky uranovy prumysl, oborovy podnik. Arrangement for slide-tracking of a boring machine in mines with a limited profile. 3,659,656, 5-2-72, Cl. 173-23.
- Mares, Vladimir, to Ceskoslovensky uranovy prumysl oborovy podnik. Lifting prop for a transfer conveyor. 3,664,486, 5-23-72, Cl. 198-126.
- Maresca, Arcangelo; and Ancilletta, Giuseppe, to Sincat-Societa Industriale Catanese S.p.A. Process and apparatus for treating particularized substances in a fluidized bed. 3,631,608, 1-4-72, Cl. 34-10.
- Maresca, Neal J.; and Winton, Orrin J., to Avco Corporation. Field test unit for a gas turbine fuel injection system. 3,678,743, 7-25-72, Cl. 73-119.00a.
- Maretko, Faye M. Pocket organizer for golfers. 3,669,250, 6-13-72, Cl. 206-38.00r.
- Marette, Ralph Thomas, to Hansen Manufacturing Company, The. Coupling mechanism. 3,664,375, 5-23-72, Cl. 137-614.040.
- Marez, John; and Hatch, Alan R., to United States of America, Navy. Film insertion and removal device for use with a cathode ray tube. 3,670,102, 6-13-72, Cl. 178-7.800.
- Marfey, Peter: *See—*
Tangen, Oddvar; Berman, Herbert J.; and Marfey, Peter, 3,706,661.
- Marforio, Nerino, to S.p.A. Virginio Rimoldi & Co. Sewing machine device adapted for applying closed tubular strapping to fabric edges. 3,658,020, 4-25-72, Cl. 112-147.000.
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- Margala, Charles E. Easily serviced telescoping cylinder. 3,644,983, 2-29-72, Cl. 29-401.
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Wilton, Inga Elna Maria; and Bauren, Karl Lennart Emanuel, 3,682,656.
- Margavio, Matthew F.: *See—*
Vigo, Tyrone L.; Margavio, Matthew F.; and Welch, Clark M., 3,698,857.
Vigo, Tyrone L.; Margavio, Matthew F.; and Welch, Clark M., 3,702,754.
- Margen, Peter Heinrich Erwin, to Aktiebolaget Atomenergi. Method and means for generating electricity and vaporising a liquid in a thermal power station. 3,681,920, 8-8-72, Cl. 60-67.000.
- Margerum, Edwin O.: *See—*
Rowland-Hill, Edward W.; and Margerum, Edwin O., 3,696,815.
Rowland-Hill, Edward William; and Margerum, Edwin O., 3,631,862.
- Margerum, John D., to Hughes Aircraft Company. Structures for photochromic compounds. 3,649,549, 3-14-72, Cl. 252-300.
- Margerum, John D.; and Jacobson, Alexander D., to Hughes Aircraft Company. Method of hologram recording. 3,694,218, 9-26-72, Cl. 96-35.100.
- Margetts, Hugh Grenville; and Habgood, Gordon Alfred, to Girling Limited. Internal shoe drum brakes. 3,661,233, 5-9-72, Cl. 188-106.
- Marggraf, Kurt A.; and Metzger, Ernest, to United States of America, Air Force. Two axis gas bearing accelerometer. 3,672,232, 6-27-72, Cl. 73-516.00r.
- Margolien, David H., to Geometron Company, Inc. Cutting elongated stock. 3,686,990, 8-29-72, Cl. 83-409.000.
- Margot, Alfred: *See—*
Paltauf, Fritz; Margot, Alfred; and Brenneisen, Paul, 3,697,555.
Traber, Walter; Margot, Alfred; and Gailay, Jean-Jacques, 3,676,561.
- Margraff, Rodolphe: *See—*
Bourat, Guy; and Margraff, Rodolphe, 3,689,438.
- Margrain, Pierre; and Lacroux, Gerard, to Etablissements E. Ragonot. Method of making low inertia rotor for dynamo electric machines. 3,694,907, 10-3-72, Cl. 29-598.000.
- Margrave, John L.; Badachhappe, Ramachandra B.; Wood, James L.; and Lagow, Richard J., to R. I. Patents, Inc. Superstoichiometric carbon monofluoride and methods for preparing stable carbon monofluorides of various stoichiometries. 3,674,432, 7-4-72, Cl. 23-05.000.
- Margulies, Howard: *See—*
Miller, Bernard; and Margulies, Howard, 3,636,205.
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- Margulies, Marcel Hidore, to Bridal AG. Method for manufacturing preformed eye-lines for eye-lids. 3,681,178, 8-1-72, Cl. 156-584.000.
- Margulis, Harry; and Miles, William B., to Addressograph-Multigraph Corporation. High speed photoelectrostatic copying machine. 3,655,283, 4-11-72, Cl. 355-14.
- Margulis, Rajko R.: *See—*
Hymes, Alan C.; Margulis, Rajko R.; and Nalbandian, Robert M., 3,641,240.
- Marguth, Gilbert R., Jr., to Livermore Data Systems, Inc. Acoustical data set/terminal tester. 3,684,832, 8-15-72, Cl. 179-2.0dp.
- Marhanka, John E.: *See—*
Pearson, Alan; and Marhanka, John E., 3,705,223.
- Mari, John P.: *See—*
Hintze, Melvin M.; Mari, John P.; McDaniel, Roy F.; and Evel, Eddie A., 3,706,044.
- Mariani, Brunello; Giuzzi, Alberto; and Tisselli, Eugenio, to Ferania, S.p.A. Monoazo compounds containing a pyrazolone. 3,657,216, 4-18-72, Cl. 260-163.
- Marich, Steve. Windshield ice scraper. 3,651,572, 3-28-72, Cl. 30-169.
- Marichev, Vladimir Petrovich; Slepian, Viktor Iosifovich; Stetsjuk, Nikolai Arsentievich; and Ginzburg, Samuil Borisovich. Dragline boom. 3,684,245, 8-15-72, Cl. 254-190.000.
- Maricle, Donald Leonard; and Rauhut, Michael McKay, to American Cyanamid Company. Electrochemiluminescent device including one of naphthacene, perylene and 5,6,11,12-tetraphenyl-naphthacene in aprotic solvent. 3,654,525, 4-4-72, Cl. 317-230.
- Marie, Gerard Joseph Marcel: *See—*
Donjon, Jacques; LePape, Auguste Raymond; and Marie, Gerard Joseph Marcel, 3,637,931.
- Marie, Gilbert: *See—*
Amiard, Yves; Bellissent, Jean-Paul; and Marie, Gilbert, 3,642,730.
Mornet, Philippe; Teitgen, Jean; and Marie, Gilbert, 3,636,019.
- Marier, Lester J., Jr.: *See—*
Beaudoin, Benoit R.; Cohen, Joseph D.; Jones, David H.; Marier, Lester J., Jr.; and Raab, Harry F., Jr., 3,671,392.
- Marilleau, Jacques, to Commissariat a l'Energie Atomique. Device for supply voltage pulses. 3,668,415, 6-6-72, Cl. 307-106.000.
- Marilleau, Jacques, to Commissariat a l'Energie Atomique. Device for producing rectangular voltage pulses of very small width between two outputs. 3,668,416, 6-6-72, Cl. 307-106.000.
- Marimes, Johannes Antonius, to U.S. Philips Corporation. Apparatus for detecting the orientation of the plane of polarisation of a plane-polarised beam of radiation. 3,685,883, 8-22-72, Cl. 350-150.000.
- Marin, Gilbert: *See—*
Bakassian, Georges; Marin, Gilbert; and Lefort, Marcel, 3,658,865.
Duffaut, Norbert; Dunogues, Jacques; Calas, Raymond; and Marin, Gilbert, 3,657,302.
- Marina Industries, Inc.: *See—*
Millett, Ray C., 3,704,555.

- Marinaccio, Paul J.; Kelley, Joseph M.; Carrock, Frederick E.; and Allemand, Edward E., to Dart Industries Inc. Additive systems for ABS graft copolymers. 3,637,555, 1-25-72, Cl. 260-23.7.
- Marinaccio, Paul Joseph; and Kelley, Joseph Matthew, to Dart Industries, Inc. Method for nucleating alpha-olefin polymers. 3,637,634, 1-25-72, Cl. 260-93.7.
- Marinace, Robert C. Double life light bulbs, fuses, and the like. 3,673,534, 6-27-72, Cl. 337-258.000.
- Marine Bank and Trust Company, mesne: *See—*
Gibbs, James W.; and Gibbs, John L., 3,677,294.
- Marine Colloids, Inc.: *See—*
Stancioff, Dimitri J.; and Witt, Henry J., 3,663,284.
- Marine Construction & Design Co.: *See—*
Wiggins, Gary K., 3,707,019.
- Marine Electro Mechanical, Inc.: *See—*
Turk, James R., 3,640,131.
- Marine Industries, Incorporated: *See—*
Foster, Merrill J., 3,657,556.
- Marine Protein Corporation: *See—*
Fremont, Howard J., 3,653,358.
Fremont, Howard J., 3,698,359.
- Marine Sciences Corporation: *See—*
Russell, Lewis B.; and Kelly, William F., 3,681,773.
- Marine Swimming Pool Equipment Co.: *See—*
Howard, Herbert H., 3,665,525.
Howard, Herbert H., 3,701,427.
- Marine Systems, Inc.: *See—*
Thatcher, Robert H., 3,655,294.
- Marineck, Borut, to Swiss Aluminum Ltd. Electrolytic process. 3,692,645, 9-19-72, Cl. 204-67.000.
- Marinelli, Donald Paul, to RCA Corporation. Method and apparatus for depositing epitaxial semiconductive layers from the liquid phase. 3,692,592, 9-19-72, Cl. 148-172.000.
- Marinelli, Joseph A., to City Welding & Manufacturing Co., Inc. Trailer construction. 3,705,732, 12-12-72, Cl. 280-106.00r.
- Marinelli, Nicola, to National Cash Register Company, The. Metal fastening coated with pressure-activatable encapsulated sealant system. 3,639,137, 2-1-72, Cl. 117-26.
- Mariner, Charlie Dwain. Bottle holder. 3,635,431, 1-18-72, Cl. 248-104.
- Marini, Aldo M., to Willcox & Gibbs, Inc. Continuous production dielectric heating apparatus. 3,689,728, 9-5-72, Cl. 219-10.810.
- Marini, Lorenzo: *See—*
Buchanan, Wilbert Bernard; and Haws, Leon, 3,704,458.
- Marini, Manlio: *See—*
Franco, Simone; Leoni, Alvaro; and Marini, Manlio, 3,694,506.
- Marinissen, Jan Philippus Cornelis; and Arnold, Frederik Alexander Nicolaas Gerardus, to U.S. Philips Corporation. Package with carrying handle. 3,662,946, 5-16-72, Cl. 229-52.
- Marino, Anthony P.: *See—*
Marino, Frank J.; and Marino, Anthony P., 3,701,559.
- Marino, Francis C.: *See—*
Berezin, Evelyn; Wolf, Edgar; Cohen, William D.; and Marino, Francis C., 3,651,311.
- Marino, Francis C., to Digitronics Corporation. Error detecting apparatus for a keystroke operated business machine. 3,644,888, 2-22-72, Cl. 340-146.1.
- Marino, Francis C., to Digitronics Corporation. Modulator using a harmonic filter. 3,648,195, 3-7-72, Cl. 332-14.
- Marino, Francis C.; and Wolf, Edgar, to Digitronics Corporation. Magnetic head with write gap wider than tape and read gap narrower than tape. 3,668,669, 6-6-72, Cl. 340-174.1.
- Marino, Frank J. Cargo container. 3,659,641, 5-2-72, Cl. 150-52.
- Marino, Frank J.; and Marino, Anthony P., to Marino Systems, Inc. Combination sling and unitizing means. 3,701,559, 10-31-72, Cl. 294-74.000.
- Marino, Frank, Jr.: *See—*
Schultz, Wilderich C., 3,657,697.
- Marino, Joseph: *See—*
Ernick, Frederick G.; Kisinko, Paul M.; Marino, Joseph; and Kannam, Peter J., 3,639,815.
- Marino, Michelangelo: *See—*
Garilli, Francesco; and Marino, Michelangelo, 3,675,489.
- Marino, Nicholas A. Multi-positionable device for X-ray film cassette. 3,633,028, 1-4-72, Cl. 250-50.
- Marino, Patrick John, to Bell Telephone Laboratories, Incorporated. Supervisory circuit for monitoring the formation and termination of interconnections in a time-division switch. 3,705,267, 12-5-72, Cl. 179-15.840.
- Marino Systems, Inc.: *See—*
Marino, Frank J.; and Marino, Anthony P., 3,701,559.
- Marinoff, George, to Addressograph-Multigraph Corporation. Carriage for embossing machine. 3,648,816, 3-14-72, Cl. 197-6.2.
- Marinus, Victor Alois, to Gevaert-Agfa N.V. Testing of a chain link-mechanism. 3,688,557, 9-5-72, Cl. 73-9.000.
- Marion, Charles P.; and Reynolds, Blake, to Texaco Development Corporation. Synthesis gas generation. 3,705,108, 12-5-72, Cl. 252-373.000.
- Marion Corporation: *See—*
Kieffaber, Clarence A., 3,688,892.
- Marion, Donald L.: *See—*
Young, David W.; Strand, Robert C.; and Marion, Donald L., 3,632,839.
- Marion, Donald L.; Anderson, Dennis G.; and Strand, Robert C., to Atlantic Richfield Company. Polyvinyl acetate latex white paint base composition containing a dispersant for paint tint colorants. 3,639,325, 2-1-72, Cl. 260-29.6.
- Marion, Henri A.: *See—*
Le Therisien, Louis G.; and Marion, Henri A., 3,640,079.
- Marion, Henri A.; Orioux, Pierre P.; and Serrano, Francisco M., to Compagnie Francaise des Petroles, Societe Anonyme. Floating torcher with permeable gas conduit for underwater oil fields. 3,652,196, 3-28-72, Cl. 431-202.
- Marion, John P., to North American Rockwell Corporation. Spring leaf and method of making. 3,671,030, 6-20-72, Cl. 267-54.000.
- Marion Laboratories, Inc.: *See—*
Mathison, Ian William, 3,674,791.
- Marion, Thomas E.; and Priborsky, Godfrey M., to Maryland Cup Corporation. Apparatus for feeding heat shrinkable plastic film and capping containers therewith. 3,703,066, 11-21-72, Cl. 53-296.000.
- Mariotti, Vittorio: *See—*
Giraldi, Pier Nicola; and Mariotti, Vittorio, 3,636,223.
- Marjon, Pierre L.: *See—*
Hughes, Robert R.; and Marjon, Pierre L., 3,686,707.
- Mark, Alfred J., to Chrysler Corporation. Apparatus and method for preparing piped covering materials. 3,675,289, 7-11-72, Cl. 29-91.000.
- Mark, Andre. Centrifugal separator for fibrous material. 3,672,503, 6-27-72, Cl. 209-144.000.
- Mark, Clayton, and Company: *See—*
Medina, Conrad R.; and Cox, Edward A., 3,631,895.
- Mark, Douglas E.: *See—*
Peterson, Philip R.; Wind, Robert H.; and Mark, Douglas E., 3,680,923.
- Mark, John G.; and Tickle, Andrew C., to Litton Systems, Inc. Non-volatile direct storage bistable circuit. 3,636,530, 1-18-72, Cl. 340-173.
- Mark, John Richard, to Marconi Company, Limited, The. Scanning aerial systems and associated arrangements therefor. 3,707,719, 12-26-72, Cl. 343-100.0sa.
- Mark Products, Inc.: *See—*
Evans, John S., Jr.; and Jasper, Leslie L., 3,690,487.
Hazelhurst, Gerald D., 3,696,329.
- Mark Systems, Inc.: *See—*
Merrick, Edward V.; and Ahrens, William L., 3,648,589.
- Mark, Vennice E. Convertible end table-desk. 3,707,316, 12-26-72, Cl. 312-208.000.
- Mark, Walter J. Automotive exhaust filter. 3,633,343, 1-11-72, Cl. 55-316.
- Mark-Tex Corporation: *See—*
Andrews, Francis W.; and Sussman, Philip S., 3,633,541.
Andrews, Francis W.; Sussman, Philip S.; and Barlow, Sidney D., 3,678,521.
- Markakis, Costas E. Stabilized floating structure. 3,689,953, 9-12-72, Cl. 14-27.000.
- Markarian, Mark: *See—*
Puppulo, Henry F.; and Markarian, Mark, 3,654,524.
- Markarian, Mark; and Gamari, Francis J., to Sprague Electric Company. Wet electrolytic capacitors. 3,654,523, 4-4-72, Cl. 317-230.
- Markarian, Mark; and McDonough, Robert J., to Sprague Electric Company. Capacitor in a sealed metal case. 3,662,236, 5-9-72, Cl. 317-260.
- Markarian, Mark, to Sprague Electric Company. Molded cover and vent for electrolytic capacitors. 3,669,302, 6-13-72, Cl. 220-44.00r.
- Markart, Ernst, to Sud-Atlas-Werke G.m.b.H. Magnetic tape recorder particularly of the tape cassette type. 3,696,775, 10-10-72, Cl. 116-67.00a.
- Marke, Berno-Dieter: *See—*
Gull, Karl-Heinz; and Marke, Berno-Dieter, 3,687,483.
- Markel, Arthur L., to Reynolds International, Inc. Method of and apparatus for skimming flotsam from the surface of a body of water. 3,637,080, 1-25-72, Cl. 210-83.
- Markel, Arthur L., to Reynolds Submarine Services Corporation. Method of separating fluids having different densities. 3,660,285, 5-2-72, Cl. 210-65.000.
- Markel, Richard F., to Superior Graphite Company. Method for high-temperature treatment of petroleum coke. 3,684,446, 8-15-72, Cl. 23-209.300.
- Marker, Hannes: *See—*
Axthammer, Ludwig, 3,658,355.
Frisch, Hans Otto, 3,682,494.
Frisch, Hans Otto; and Payhammer, Bernd, 3,692,322.
Jungkind, Roland, 3,695,624.
- Marker, Hannes; and Jungkind, Roland (said Jungkind assor. to said), 3,685,849.
- Marker, Hannes; and Biermann, Peter, 3,689,094.
- Payhammer, Bernd, 3,698,732.
- Schriewer, Ernst-Richard, 3,635,486.
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- Marker, Hannes; and Biermann, Peter, to Marker, Hannes. Safety ski binding. 3,689,094, 9-5-72, Cl. 280-11.35c.
- Marker, Hannes, to Toe-or heel-holding device for safety ski bindings. 3,690,690, 9-12-72, Cl. 280-11.35t.
- Markert, Franz: *See—*
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Young, Raymond H., Jr.; Markhart, Albert H.; and Martins, Joseph G., 3,650,799.
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Ebbe, Grace Lakin; and Marki, Gustav Paul, 3,703,610.
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Ziehm, Kurt F., Jr.; and Markiewicz, James E., 3,698,700.
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Perry, Robert D. O.; and Markiewicz, Joseph F., 3,693,843.
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Kimpel, Frank A.; and Markley, William F., 3,650,121.
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Borisov, Konstantin Grigorievich; Markman, Isif Leibovich; Sitnikov, Leonid Semenovich; and Utyakov, Lev Lazarevich, 3,659,163.
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Bokov, Jury Sergeevich; Vikulina, Ninel Vladimirovna; Dogadkin, Boris Aristarkhovich; Erofeev, Boris Vasilievich; Larina, Anastasia Vasilievna; Lavrishev, Vadim Petrovich; Markov, Vladimir Vladimirovich; Naumova, Sofia Fadeevna; Jurina, Olge Demidovna; an Yarovaya, Galina Dmitrievne, 3,674,496.
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Menchikov, Leonid Petrovich; Kopylov, Kim Ivanovich; Okun, Evsei Lvovich; Smirnov, Vasily Mikhailovich; Gavrikov, Viktor Stepanovich; Fridman, Ilya Davidovich; Markov, Vyacheslav Evgenievich; and Sopin, Alexandr Alexandrovich, 3,651,301.
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Feddersen, Donald W.; and Markowski, Everett L., 3,672,529.
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Loncrini, Donald; and Markowski, Henry J., 3,660,327.
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Palenske, Carlton L.; and Marks, Lawrence E., 3,681,795.
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Lund, Alvin R.; and Kaufman, Jack, 3,665,626.
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Rowe, James H.; and Markus, Joseph, 3,663,239.
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Martin, Aaron J., 3,689,038.
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Shields, John T., 3,698,990.

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Marland, Joseph A.; and Hill, Charles W., 3,633,713.
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Mills, Loring E.; Marler, James V.; and Buntz, Billie J., 3,680,690.
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Fordyce, Homer E., 3,647,191.
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Ransom, Arthur Charles, 3,687,306.
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Morris, Stephen J.; and O'Keefe, James M., 3,697,715.
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Thornell, Ernest La Verne, 3,706,156.
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Dahlquist, John A.; and Marlor, Guy A., 3,649,261.
- Dahlquist, John A.; Marlor, Guy A.; and Whitehorn, Richard M., 3,684,365.
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Bailey, Keith A.; and Marlow, Jerry R., 3,682,043.
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Madalo, Michael; and Marlow, William H., 3,661,258.
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Closner, John J.; Schupack, Morris; and Marlowe, Eugene W., 3,633,328.
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- Marlowe, Philip; and Greenberg, Joel. Automotive anti-theft system. 3,651,329, 3-21-72, Cl. 307-10.
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Martin, Joseph F., 3,654,934.
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Turner, Paul; Marmion, Vincent James; Sneddon, John Mason; and Craig, David D. H., 3,658,963.
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Crosby, Robert C.; and Holley, John D., 3,701,483.
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Meunier, Renee J. Louise; and Marmonier, Monique Adele, 3,664,506.
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Angioletti, Attilio E.; and Marocco, Sergio G., 3,672,484.
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Chambers, Harold L.; Marom, Emanuel; and Mueller, Rolf K., 3,666,884.
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Gawlick, Heinz; Marondel, Gunther; and Umbach, Hans, 3,641,935.
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- Marotta, Nicholas G.; Zwiercan, Gary A.; and Boettger, Richard M., to National Starch and Chemical Corporation. Manufacture of starch-containing food products. 3,652,294, 3-28-72, Cl. 99-83.
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Kowalski, Slawomir; and Worden, Donald A., 3,658,090.
- Marotta, Patrick T., 3,656,707.
- Tillman, Alfred, 3,635,436.
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- Marquarding, Dieter; Ugi, Ivar V.; Kleimann, Helmut; and Hoffmann, Peter, to Farbenfabriken Bayer Aktiengesellschaft. N-acetyl- α -amino-acid amines or peptides and their production. 3,647,775, 3-7-72, Cl. 260-112.5.
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Peel, Richard V.; and Phillips, Billie W., 3,641,338.
- Risely, Richard E., 3,696,243.
- Marquardt, Julius F.; and Wade, Ronald A., to International Harvester Company. Change-speed reduction drive for a conveyor. 3,668,794, 6-13-72, Cl. 37-8.000.
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Corbin, Dennis D.; Marquardt, Robert F.; and Gabby, John Lester, 3,682,652.
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Lemons, David Forrest; Marquart, Gordon Le Roy; and Hericovici, Saul, 3,701,393.
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Thayer, Patrick T.; and Munson, Robert V., 3,653,049.
- Marquart, Vernon L.: *See—*
Rhodes, Warren L.; and Marquart, Vernon L., 3,639,049.
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Kowalski, William W.; and Ricketts, James R., 3,650,263.
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Freber, Elmer C., 3,654,795.
- Marquez, Joseph A.: *See—*
Weinstein, Marvin J.; Luedemann, George M.; Wagman, Gerald H.; and Marquez, Joseph A., 3,632,750.
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Golde, Hans; Herrmann, Friedrich; Kouth, Herbert; and Marr, Fritz, 3,675,371.
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- Corompt, Antoine, 3,638,817.
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- Murphree, Francis J.; and Marrero, Michael T., 3,641,485.
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- Mellon, Eugene P.; and Kisner, Lester A., 3,696,848.
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- Askew, Warren S.; and Marrs, Richard E., 3,698,479.
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- Krupen, Ira; and Gilman, Marvin A., 3,693,383.
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- Baker, Joseph S.; Marsan, Mario S.; and Duncan, Robert C., 3,675,654.
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- Marschner, Frank William, to Colgate-Palmolive Company. Reversible-emulsion aerosol system. 3,705,855, 12-12-72, Cl. 252-90.000.
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- Schachner, Willi; and Marschner, Heinz, 3,667,580.
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- Rodwell, John; and Marsden, Harry, 3,645,370.
- Marsden, Howard A.: *See—*
- Hufeld, John L.; Larson, Donald J.; Marsden, Howard A.; Mueller, James P.; and Norick, William B., 3,680,588.
- Marsden, James G.: *See—*
- Pepe, Enrico J.; and Marsden, James G., 3,671,562.
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- Marsden, Sullivan S., Jr.; and Rose, Stephen C. Pipelining crude oils and tars containing dissolved natural gas at sub-freezing temperatures in order to avoid environmental damage. 3,670,752, 6-20-72, Cl. 137-13.000.
- Marsee, Frederick J., to Ethyl Corporation. Reducing engine emissions. 3,646,921, 3-7-72, Cl. 123-117.
- Marsh, Albert F. Automatic egg turner for incubator. 3,669,075, 6-13-72, Cl. 119-44.000.
- Marsh, Anthony. Loading platform light fixture. 3,707,624, 12-26-72, Cl. 240-54.00a.
- Marsh, Byron E.; Kinney, Layton E.; and Betty, Roy J., Jr., to Armour Industrial Chemical Company, mesne. Thickened chlorinated solvent compositions and method. 3,634,273, 1-11-72, Cl. 252-170.
- Marsh, Byron E.; Betty, Roy J.; and Marsh, Frederick S., to Armour Industrial Chemical Company, mesne. Oil well drilling and treating fluids. 3,650,951, 3-21-72, Cl. 252-8.5.
- Marsh, David C., to Borg-Warner Corporation. Self-cleaning rotary fluid filtration system. 3,633,754, 1-11-72, Cl. 210-360.
- Marsh, David C.; and Rao, Prabhakar B. R., to Borg-Warner Corporation. Gas-driven hydraulic power converting pump. 3,649,135, 3-14-72, Cl. 417-340.
- Marsh, Frederick L., to Gould-National Batteries, Inc. Additives for dry charged batteries. 3,639,175, 2-1-72, Cl. 136-154.000.
- Marsh, Frederick L.; and Thompson, Kirk L., to Gould-National Batteries, Inc. Immobilized electrolytes for secondary cells. 3,663,304, 5-16-72, Cl. 136-157.
- Marsh, Frederick S.: *See—*
- Marsh, Byron E.; Betty, Roy J.; and Marsh, Frederick S., 3,650,951.
- Marsh, Gerald A.: *See—*
- Brown, Robert T.; Vogler, Don E. E.; and Marsh, Gerald A., 3,661,409.
- Marsh, Glenn A.; and Schaschl, Edward, to Union Oil Company of California. Method for determining the completeness of cathodic protection of corrodible metal structure. 3,649,492, 3-14-72, Cl. 204-148.
- Marsh, Henry N., Jr.; and Gano, Barclay P., to Owens-Corning Fiberglas Corporation. Composite articles including bonded fibrous glass with said articles having density gradients. 3,642,560, 2-15-72, Cl. 161-39.
- Marsh, James Courtland, Jr., to RCA Corporation. Automatic degaussing apparatus for minimizing residual current during steady state operation. 3,699,400, 10-17-72, Cl. 317-157.500.
- Marsh, Jean S.: *See—*
- Marsh, John, 3,690,602.
- Marsh, John; deceased (by Marsh, Jean S.; administratrix), to United Aircraft Corporation. Automatic cargo release mechanism. 3,690,602, 9-12-72, Cl. 244-137.00r.
- Marsh, John F.; and Switlik, Joseph M., to Esso Research and Engineering Company. Detergent additives. 3,655,557, 4-11-72, Cl. 252-32.7.
- Marsh, Keith D.: *See—*
- Eshelman, Philip V.; Erickson, Roy O.; and Marsh, Keith D., 3,698,372.
- Marsh, Lawrence B., to United States of America, Navy, mesne. Line-scan television system employing spectrum analysis. 3,660,594, 5-2-72, Cl. 178-5.2.
- Marsh, Lawrence C., to General Motors Corporation. Solenoid control apparatus. 3,643,129, 2-15-72, Cl. 317-11.
- Marsh, Loyal F. Tethered ball baseball batting practice device. 3,652,088, 3-28-72, Cl. 273-26.
- Marsh, Lynn W.; and Schneiderhan, Edward M., to Mohawk Data Sciences Corporation. Control for chain printer. 3,699,884, 10-24-72, Cl. 101-93.00c.
- Marsh, Lynn W., Jr., to Mohawk Data Sciences Corporation, mesne. Printer having fewer hammer actuating means than hammers. 3,654,857, 4-11-72, Cl. 101-93.
- Marsh, Norman F.: *See—*
- Anson, James H.; and Marsh, Norman F., 3,632,918.
- Marsh, Norman F.; and Struck, Karl W., to Sangamo Electric Company. Electrical data logging system for utility industry. 3,643,063, 2-15-72, Cl. 235-61.1.
- Marsh, Ogden J.: *See—*
- Hunsperger, Robert G.; and Marsh, Ogden J., 3,649,369.
- Hunsperger, Robert G.; and Marsh, Ogden J., 3,666,567.
- Marsh, Richard P.; and Whannel, Ralph F. Device for forming and handling concrete pipe. 3,635,613, 1-18-72, Cl. 425-62.

- Marsh, Robert E. Fluid flow directing structure for pressure vessel. 3,662,780, 516-72, Cl. 137-590.
- Marsh, Robert E. Water softener deflector-distributor structure. 3,704,785, 12-5-72, Cl. 210-285.000.
- Marsh, Robin S. Method and apparatus for determination of H₂S in hydrogen sulfide petroleum products. 3,660,035, 5-2-72, Cl. 23-230.
- Marsh, Ronald W.: *See—*
- Mundinger, William D.; and Marsh, Ronald W., 3,675,975.
- Marsh, Roscoe C. Weatherguard jersey. 3,663,797, 5-16-72, Cl. 219-211.
- Marsh, Stanley Bruce: *See—*
- Clare, John Dickens; and Marsh, Stanley Bruce, 3,670,327.
- Marsh Stencil Machine Company: *See—*
- Hill, Forrest G.; and Kelly, Samuel H., 3,654,863.
- Marsh, Walter H. W.: *See—*
- Urciola, John A.; and Marsh, Walter H. W., 3,699,910.
- Marsh, William S.: *See—*
- Axelrod, Michael; Marsh, William S.; Rao, Koppaka V.; and Sodano, Charles S., 3,644,617.
- Sobin, Ben A.; Routien, John B.; Rao, Koppaka V.; Marsh, William S.; and Garretson, Aline L., 3,646,194.
- Marshall, Akemi S.: *See—*
- Priest, William J.; and Marshall, Akemi S., 3,646,032.
- Marshall, Alan; and Macpherson, Anne Wilson, to Geigy Chemical Corporation. Pharmaceuticals prepared from polycyclic bases and cation exchange resins. 3,665,073, 5-23-72, Cl. 424-79.
- Marshall, Albert H.; and Siragusa, George A., to United States of America, Navy. Semiconductor laser marksmanship training device. 3,657,826, 4-25-72, Cl. 35-25.000.
- Marshall, Alec Frank; and Taylor, Hugh Gordon, to Birmingham Small Arms Company Limited, The. Presses. 3,659,985, 5-2-72, Cl. 425-78.
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- Marshall, Burton H. Power driven conveyor. 3,666,077, 5-30-72, Cl. 198-29.
- Marshall, Charles J., to American Motors Corporation. Fuel evaporative control system. 3,650,256, 3-21-72, Cl. 123-136.
- Marshall, Claude J., to North American Rockwell Corporation. Wheel cover balancing apparatus and method. 3,702,567, 11-14-72, Cl. 73-487.000.
- Marshall, Claude J., to North American Rockwell Corporation. Retaining means for wheel trim members. 3,703,318, 11-21-72, Cl. 301-37.00r.
- Marshall, Connie T.: *See—*
- Fort, Larry W.; and Marshall, Connie T., 3,688,210.
- Fort, Larry W.; and Marshall, Connie T., 3,697,884.
- Marshall, Daniel J., to Magnavox Company, The. Transducer system and method. 3,647,943, 3-7-72, Cl. 178-5.4.
- Marshall, Daniel J., to Magnavox Company, The. Crosstalk reduction in color reproduction system. 3,688,022, 8-29-72, Cl. 178-5.4st.
- Marshall, David: *See—*
- Greenland, Leonard Sidney; Smith, Charles Philip; and Marshall, David, 3,655,134.
- Marshall, David; and Lloyd, Arthur Leslie, to Hobson, H. M., Limited. Fuel control system for a gas turbine engine. 3,643,428, 2-22-72, Cl. 60-39.28.
- Marshall, David J., to American Home Products Corporation. 7 α , 8 α -Methylenestrogens and preparation thereof. 3,634,404, 1-11-72, Cl. 260-239.55.
- Marshall, David J.; and Givner, Morris L., to American Home Products Corporation. Antiandrogenic steroids. 3,705,179, 12-5-72, Cl. 260-349.000.
- Marshall, David W.; and Feighner, George C., to Continental Oil Company. Purification of detergent alkylates. 3,632,660, 1-4-72, Cl. 260-674.
- Marshall, Don J., to Goodall Semi-Metallic Hose & Mfg., Co. Tire stand. 3,665,989, 5-30-72, Cl. 144-288.00a.
- Marshall, Don J., to Goodall Semi-Metallic Hose & Mfg., Co. Hose coupling. 3,687,491, 8-29-72, Cl. 285-242.000.
- Marshall, Douglas Woodworth; and Pett, Edgar A., to Norton Company. Method of making fragmented crystalline material. 3,646,713, 3-7-72, Cl. 51-309.
- Marshall, Edward C. Pressure sensitive label strip construction and method of making same. 3,694,287, 9-26-72, Cl. 156-257.000.
- Marshall, Edward M. Food cooking grill. 3,678,844, 7-25-72, Cl. 99-340.000.
- Marshall, Edward W.; and Sloan, John D., to Varian Associates. Electrostatic recorder with resilient conductive fabric backup electrode. 3,693,181, 9-19-72, Cl. 346-74.00c.
- Marshall, Edwin L.; Bocian, Harvey; and Hauptman, Neil L., to Somar Dental Studios, Inc. Die holder for dental laboratory. 3,702,027, 11-7-72, Cl. 32-117.000.
- Marshall, Franklin N., to Dow Chemical Company, The. Method using (dialkylaminoethoxy) halomethoxyaniline for alleviating cardiac arrhythmias. 3,632,779, 1-4-72, Cl. 424-330.
- Marshall, Franklin N., to Dow Chemical Company, The. Method and composition employing mixed ether compounds alleviating cardiac arrhythmias. 3,639,603, 2-1-72, Cl. 424-250.
- Marshall, Franklin N., to Dow Chemical Company, The. Cardiac antiarrhythmic method and composition employing alkylaminoalkoxyphenol compounds. 3,639,634, 2-1-72, Cl. 424-330.
- Marshall, Fred R., to TRW Inc. Electromagnetic radiation beam directing systems. 3,643,178, 2-15-72, Cl. 331-94.5.
- Marshall, Frederick P.: *See—*
- Kinney, Alfred W.; and Marshall, Frederick P., 3,669,305.
- Marshall, Gailen D., to Sperry Sun Well Surveying Company. Expandable shock absorber. 3,653,468, 4-4-72, Cl. 188-1.
- Marshall, George E.: *See—*
- Halvorsen, Ivar N.; and Marshall, George E., 3,642,376.
- Jones, Hugh L.; and Marshall, George E., 3,642,371.
- Marshall, George E.; Perno, Bartholomew J.; and Stokes, Robert G., to Xerox Corporation. Combined document feed and book copying apparatus. 3,685,905, 8-22-72, Cl. 355-75.000.
- Marshall, Harold A. Fluid mixing device. 3,664,372, 5-23-72, Cl. 137-552.000.
- Marshall, Harry L.: *See—*
- Frey, James O.; Marshall, Harry L.; and Minnier, Henry B., 3,704,232.
- Marshall Industries: *See—*
- Breen, Bernard P.; Lawver, Bill R.; and Kliegel, James R., 3,651,644.
- Cook, Richard L., 3,664,904.
- Marshall, J. Howard, III; and Harrington, Timothy M., to Analog Technology Corporation. Frequency-programmed electron-capture detector. 3,671,740, 6-20-72, Cl. 250-43.50r.
- Marshall, James C.; and Stewart, Terrence J., to International Business Machines Corporation. Process for inducing superplasticity in zinc or zinc-aluminum alloys containing copper. 3,632,454, 1-4-72, Cl. 148-11.5.
- Marshall, James E.: *See—*
- Porter, Irwin C.; Barcus, Jack L.; Bear, David L.; and Marshall, James E., 3,636,655.
- Stern, Howard R.; Marshall, James E.; and Sloane, Thomas E., Jr., 3,658,346.
- Marshall, James O. Sight attachment for a golf putter. 3,698,093, 10-17-72, Cl. 33-263.000.
- Marshall, Jefferson: *See—*
- Williams, Frank Ronald; Whitehead, Jack; Marshall, Jefferson; Conners, Alan; and Gosden, Derek Vernon, 3,649,243.
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- Marshall, John. Navigational travel time computer. 3,683,506, 8-15-72, Cl. 33-76.00r.
- Marshall, John L., Jr.: *See—*
- Barlow, Paul D.; and Marshall, John L., Jr., 3,636,601.
- Marshall, John M.: *See—*
- Steele, Clarence R.; Price, Frank B.; and Marshall, John M., 3,697,324.
- Marshall, John R., to Ford Motor Company. Engine spark timing control device. 3,638,626, 2-1-72, Cl. 123-117.
- Marshall, John Stephen; and Turnbull, William S., to Rubery, Owen & Co. Limited. Hydraulic power transmission systems. 3,640,066, 2-8-72, Cl. 60-53.
- Marshall, Joseph, to Thomas & Betts Corporation. Coaxial flat cable. 3,634,782, 1-11-72, Cl. 333-1.
- Marshall, Joseph C.: *See—*
- Belcher, Richmond D.; Duggan, Robert J.; Ellis, George R.; Esslinger, Robert H.; Goodyear, W. Frederick; Marshall, Joseph C.; and Masone, Thomas R., 3,656,148.
- Marshall, Joseph William: *See—*
- Hemsley, Brian; Hinbest, Lionel Frederick; and Marshall, Joseph William, 3,666,885.
- Marshall, Kenneth N.; and Schwartz, Linus G., to National Controls, Inc. Wheel load scale. 3,658,142, 4-25-72, Cl. 177-208.
- Marshall, Luther E.: *See—*
- Lindner, Robert L.; and Marshall, Luther E., 3,681,876.
- Marshall, Melvin R., to Cogar Corporation. Memory correction redundancy system. 3,659,275, 4-25-72, Cl. 340-173.
- Marshall, Michael Charles: *See—*
- Thompson, Eric William; and Marshall, Michael Charles, 3,691,081.
- Marshall, Peter W.; Arnold, Peter; and Dunn, Francis P. Curved offshore well conductors. 3,687,204, 8-29-72, Cl. 175-9.000.
- Marshall, Philip; and Stevens, William C., Jr., to Marshall Research and Development Corporation. Shock spectrum analysis and synthesis method and apparatus. 3,659,456, 5-2-72, Cl. 73-71.6.
- Marshall, Philip Ronald; and Ridgewell, Brian John, to International Synthetic Rubber Company Limited, The. Polymerisation of cycloolefins using molybdenum or tungsten halide or oxyhalide and aluminum halide catalysts. 3,639,371, 2-1-72, Cl. 260-93.1.
- Marshall, Ray A., to SCM Corporation. Data reading apparatus. 3,639,729, 2-1-72, Cl. 235-61.11.
- Marshall, Ray A., to SCM Corporation. Stepping motor control including a high level supply for stepping and a low level supply for holding. 3,659,176, 4-25-72, Cl. 318-696.

Marshall Research and Development Corporation: *See*—
Marshall, Philip; and Stevens, William C., Jr., 3,659,456.

Marshall, Richard A., to Ezzo Research and Engineering Company. Removal of 5-ethyl-2-methylpyridine from pyridine polymers. 3,639,363, 2-1-72, Cl. 260-80.3.

Marshall, Richard P.: *See*—
Braden, William D.; Marshall, Richard P.; Greenhorn, Richard J.; and Buser, Arnold S., 3,656,343.

Braden, William D.; Marshall, Richard P.; Greenhorn, Richard J.; and Buser, Arnold S., 3,698,233.

Marshall Richards Barcro Limited: *See*—
Pamplin, John W., 3,647,154.

Marshall, Robert: *See*—
Healy, Robert M.; and Marshall, Robert, 3,673,539.

Marshall, Robert A.; and Barach, Howard J. Filter device. 3,645,780, 7-11-72, Cl. 210-446.000.

Marshall, Robert G.; and Hedrick, Robert K. Suspension bridge preassembled abutment towers and anchorage. 3,685,074, 8-22-72, Cl. 14-27.000.

Marshall, Robert, Jr. Pull chain operator for rotary switch shaft. 3,643,052, 2-15-72, Cl. 200-172.

Marshall, Robert M., to Celcote Company, The. Acid pickle tank covers. 3,648,593, 3-14-72, Cl. 98-115.

Marshall, Rolf F. Cellular building structure. 3,688,327, 9-5-72, Cl. 14-1.000.

Marshall, Ted R.: *See*—
De Core, Fred; Peake, Thaddeus A.; and Marshall, Ted R., 3,668,768.

Marshall, Walter L. Pre-amplifier plug for musical instruments with battery retaining and switch activating rod means. 3,662,223, 5-9-72, Cl. 317-99.000.

Marshall, Walter R., to Union Carbide Corporation. Mixing of fluid materials. 3,675,902, 7-11-72, Cl. 259-7.000.

Marshall, William A.; Lunkwicz, Bernard Paul; and Meresz, Henry, to Lear Siegler, Inc. Air heater. 3,638,636, 2-1-72, Cl. 126-110.

Marshall, William J.: *See*—
Ehrlich, Felix Frederick; and Marshall, William J., 3,647,494.

Marshall, William W.: *See*—
Cahill, Lyle D.; Feller, John; Marshall, William W.; Thomas, Edward R.; and Thompson, Harold P., 3,689,693.

Marshall, Winston S., to Lilly, Eli, and Company. 2-(3-Anilinophenyl) alkanolic acids and derivatives thereof in analgesic compositions and methods. 3,644,641, 2-22-72, Cl. 424-311.

Marshall, Winston S., to Lilly, Eli, and Company. Substituted phenylalkanoic acid derivatives II. 3,649,679, 3-14-72, Cl. 260-520.

Marscheck, William J.: *See*—
Colton, Frank B.; Marscheck, William J.; and Miyano, Masateru, 3,687,811.

Kraychy, Stephen; Marscheck, William J.; and Muir, Robert D., 3,684,657.

Marshman, Graham Edward, to Muirhead Limited. Synchronizing arrangement for a motor driven facsimile scanning assembly. 3,691,296, 9-12-72, Cl. 178-69.50e.

Marshman, Henry Thomas: *See*—
Harper, Norman Clark; Marshman, John Henry; and Marshman, Henry Thomas, 3,643,102.

Marshman, John Henry: *See*—
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Marsi, Joseph A., to Borg-Warner Corporation. Mechanical seal with lubricating means. 3,638,957, 2-1-72, Cl. 277-96.

Marsik, Stanley J.: *See*—
Philipp, Warren H.; Marsik, Stanley J.; and May, Charles E., 3,658,569.

Marsik, Zbynek: *See*—
Blachut, Theodore J.; Marsik, Zbynek; and Makow, David M., 3,692,406.

Marsilia, Louis P.: *See*—
Moran, Robert J.; and Marsilia, Louis P., 3,680,385.

Marsland, George H., to Pratt & Whitney Inc. Tool changer clamp. 3,680,436, 8-1-72, Cl. 90-11.00a.

Marson, Richard A.: *See*—
Snellman, Donald L.; Marson, Richard A.; and Davis, Ernest D., 3,646,372.

Marsot, Charles L.: *See*—
Martinesco, Dimitri; and Marsot, Charles L., 3,659,357.

Marsot, Charles Louis: *See*—
Rabouyt, Denis; and Marsot, Charles Louis, 3,680,977.

Marte, Egon. Override dual control device for aircraft. 3,633,851, 1-11-72, Cl. 244-84.

Martcel, Bernard: *See*—
De Boeck, Paul; Martcel, Bernard; and Schrijvers, Jozef, 3,669,833.

Martel, Charles Etienne Georges: *See*—
Bouisse, Jean Marie Germain; Martel, Charles Etienne Georges; and Villey-Desmeserets, Franck Pierre Antoine, 3,706,283.

Martel, Eugene H.; and Schuch, Gerald T., to Badger Company, Inc., The. Extraction and multi-shape fractional distillation with indirect heat exchange of liquid and vapor process and system for recovering aromatic product. 3,639,497, 2-1-72, Cl. 260-674.

Martel, Jacques; and Buendia, Jean, to Roussel-UCLAF. Synthesis of pyrethric acid. 3,694,472, 9-26-72, Cl. 260-468.00p.

Martelee, Ghislain Antoine Jean-Marie. Gripper for handling heavy products and specifically horizontal-axis coils. 3,655,232, 4-11-72, Cl. 294-67.

Martelee, Ghislain Antoine Jean-Marie, to Cockerill-Ougree-Providence et Esperance-Longdoz, en abregé "Cockerill". Press assembly for compacting and binding wire coils. 3,675,568, 7-11-72, Cl. 100-7.000.

Martell, Arthur E. Hydroxyaryl-containing aminocarboxylic chelating agents. 3,632,637, 1-4-72, Cl. 260-519.

Martelli, Francesco: *See*—
Martelli, Guido; Martelli, Nerio; and Martelli, Francesco, 3,642,963.

Martelli, Guido; Martelli, Nerio; and Martelli, Francesco. Method of severing articles from a continuous thermoplastic web molded on rotary vacuum-forming machines. 3,642,963, 2-15-72, Cl. 264-37.

Martelli, Nerio: *See*—
Martelli, Guido; Martelli, Nerio; and Martelli, Francesco, 3,642,963.

Martelli, Nerio. Vacuum moulding machine. 3,667,889, 6-6-72, Cl. 425-314.000.

Martelli, Nerio. Foamed plastic pocket tray for fruits or like articles. 3,695,453, 10-3-72, Cl. 211-14.000.

Marten, Donald J., to Bonner, W. C., Company, Inc. Injection pump. 3,635,597, 1-18-72, Cl. 417-568.

Marten, John Anthony; and Gee, Bernard Arthur, to Suntester Limited. Vehicle testing apparatus. 3,693,422, 9-26-72, Cl. 73-117.000.

Marten, John Anthony; and Gene, Bernard Arthur, to Suntester Limited. Vehicle testing apparatus. 3,702,075, 11-7-72, Cl. 73-117.000.

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Martens, David A.: *See*—
Haskew, Harold M.; and Martens, David A., 3,662,726.

Jacobsen, Eudell G.; and Martens, David A., 3,653,464.

Martens, David A., to General Motors Corporation. Vehicle engine liquid circulating system. 3,636,935, 1-25-72, Cl. 123-122.

Martens, Gerhard: *See*—
Bauer, Karl; Martens, Gerhard; and Schiminski, Herbert, 3,701,873.

Martens, Jean Victor; Natens, Marcel Clement Rene; and De Aguirre, Amanuel, to International Standard Electric Corporation. Converter circuits. 3,657,631, 4-18-72, Cl. 321-2.

Martenson, Earl D.; and Gebhardt, James J., Jr., to Barber-Greene Company. Material control system for a finishing machine. 3,678,817, 7-25-72, Cl. 94-46.000.

Martenson, Earl D.; and Ingham, Ray E., to Barber-Greene Company. Proportional screed control for a finisher. 3,691,916, 9-19-72, Cl. 94-46.00a.

Marthaler, Max; and Oetiker, Alfred, to Ciba Limited. Silver dye bleach photographic elements and processes for their use. 3,650,739, 3-21-72, Cl. 96-20.

Marti, Erich. Device for withdrawing blood from bodies of slaughtered animals. 3,649,996, 3-21-72, Cl. 17-1.

Marti, Othmar: *See*—
Stocker, August; Marti, Othmar; Pfammatter, Theodul; and Schreiner, Gehart, 3,657,259.

Marti, Othmar; and Zimmerli, Willi, to Lonza, Ltd. Process for the production of acetoacetic acid esters. 3,651,130, 3-21-72, Cl. 260-483.

Marti, Rueben A.: *See*—
Back, Sangho E.; and Marti, Rueben A., 3,647,618.

Martin, Aaron J.; and Levy, Eugene J. Solids pyrolyzer. 3,684,454, 8-15-72, Cl. 23-253.0pc.

Martin, Aaron J., to Marlabs, Inc. Dynamic gas flow apparatus. 3,689,038, 9-5-72, Cl. 263-2.000.

Martin, Afton V.; and Modovan, Michael T., Jr., to AVM Corporation. Voter instruction device. 3,654,709, 4-11-72, Cl. 35-13.

Martin, Alan. Mandrel rivet setting tool. 3,646,800, 3-7-72, Cl. 72-391.

Martin, Alan. Threaded blind fastener. 3,683,740, 8-15-72, Cl. 85-72.000.

Martin, Albert D.: *See*—
Nunes, John; and Martin, Albert D., 3,698,963.

Martin, Albert Michael, to Berea Road Auto Body, Inc. Method of disassembling sheet metal assemblies. 3,688,383, 9-5-72, Cl. 29-427.000.

Martin, Anthony Eugene Joseph; and Baker, Bernard James, to Lucas, Joseph, (Industries) Limited. Hydrostatic transmission systems. 3,660,975, 5-9-72, Cl. 60-19.

Martin, Anthony Eugene Joseph; Skinner, Robert Thomas John; and Baker, Bernard James, to Lucas, Joseph, (Industries) Limited. Hydrostatic transmission systems. 3,662,495, 5-16-72, Cl. 60-19.

Martin, Anthony Eugene Joseph, to Lucas, Joseph, (Industries) Limited. Multiposition fluid-operable piston and cylinder unit. 3,683,752, 8-15-72, Cl. 92-13.510.

Martin, Anthony Michael. Apparatus for forming helical gear wheel bodies from powder. 3,677,671, 7-18-72, Cl. 18-16.500.

Martin, Arthur Seymon. Method and apparatus for determining the coefficient of diffusion of a dissolved solute in unsaturated solution. 3,677,071, 7-18-72, Cl. 73-61.400.

Martin, Bernard P.: *See*—
Beach, Sidney C.; and Martin, Bernard P., 3,699,016.

Martin, Billy M.: *See*—
Sloan, Benjamin Johnston, Jr.; Martin, Billy M.; Clevenger, Loyd H.; and Dunn, Roger S., 3,659,160.

Martin, Brian, to Dow Chemical Company, The. Process for carboxylic acid halide manufacture. 3,637,841, 1-25-72, Cl. 260-544.

Martin, Byron W.: *See*—
Fischer, Robert T.; and Martin, Byron W., 3,663,066.

Martin, C. F., & Co.: *See*—
Grauso, Robert N.; and Morena, John J., 3,704,645.

Martin, Calvin C. Positionable clothesline support. 3,675,785, 7-11-72, Cl. 211-119.100.

Martin, Charles A., to Martin Fireproofing Corporation. Structural cement-wood fiber panel. 3,638,384, 2-1-72, Cl. 52-589.

Martin, Charles H., 50% to Hamilton, J. Brook. Arrangement for connecting concrete or clay bricks, blocks, panels and slabs. 3,680,277, 8-1-72, Cl. 52-438.000.

Martin, Charles K., to Inferno-Therm Corporation. Bin heater system. 3,659,583, 5-2-72, Cl. 126-343.5.

Martin, Claude, to Reuge SA. Musical toy. 3,693,287, 9-26-72, Cl. 46-118.000.

Martin, Clyde J., to Martin Industries, Inc. Pressure gauge. 3,677,089, 7-18-72, Cl. 73-419.000.

Martin, Clyde J., to Martin Industries, Inc. Gauge actuated circuit control unit. 3,703,616, 11-21-72, Cl. 200-56.00r.

Martin, Daniel W., to Baldwin, D. H., Company. Electronic organ keying circuits. 3,660,587, 5-2-72, Cl. 84-1.18.

Martin, Daniel W.; and Stein, John L. Electropiano. 3,685,384, 8-22-72, Cl. 83-211.000.

Martin, David Eric: *See*—
Grebell, John; Heljula, Kuldar; and Martin, David Eric, 3,632,663.

Martin, David Eric; and Palmer, Brian Michael, to BP Chemicals Limited. Olefin purification process. 3,668,270, 6-6-72, Cl. 260-683.00d.

Martin, David G.: *See*—
Hanka, Ladislav J.; and Martin, David G., 3,658,837.

Martin, David R.; and Sauter, Walter A., to American Nucleonics Corporation. Adjacent channel measurement test system. 3,648,176, 3-7-72, Cl. 325-133.

Martin, Dennis: *See*—
Fletcher, John Vincent; and Martin, Dennis, 3,686,289.

Martin, Donald J.: *See*—
Eletto, Richard J.; and Martin, Donald J., 3,689,568.

Martin, Donald J., to Stauffer Chemical Company. Method of preparing 1,4-oxathianes and derivatives thereof. 3,641,054, 2-8-72, Cl. 260-327.

Martin, Donald J., to Lever Brothers Company. Anticalculus formulations. 3,703,583, 11-21-72, Cl. 424-54.000.

Martin, Donald J., to Stauffer Chemical Company. Catalyzed process for producing pentavalent phosphorus derivatives. 3,705,214, 12-5-72, Cl. 260-969.000.

Martin, Donald L.: *See*—
Benz, Mark G.; and Martin, Donald L., 3,684,593.

Martin, Donald L.; and Benz, Mark G., to General Electric Company. Superconductors containing flux traps. 3,676,577, 7-11-72, Cl. 174-119.00r.

Martin, Donald L., to General Electric Company. Sintered cobalt-rare earth intermetallic product and permanent magnets produced therefrom. 3,682,714, 8-8-72, Cl. 148-31.570.

Martin, Donald L., to General Electric Company. Sintered cobalt-rare earth intermetallic product including samarium and lanthanum and permanent magnets produced therefrom. 3,682,715, 8-8-72, Cl. 148-31.570.

Martin, Donald L.; and Benz, Mark G., to General Electric Company. Sintered intermetallic product of cobalt, samarium and cerium mischmetal and permanent magnets produced therefrom. 3,682,716, 8-8-72, Cl. 148-31.570.

Martin, Donald L., to General Electric Company. Sintered cobalt-rare earth intermetallic product including samarium and cerium and permanent magnets produced therefrom. 3,684,591, 8-15-72, Cl. 148-31.570.

Martin, Donald N.: *See*—
Roche, Jerry E.; Martin, Donald N.; Hoffa, Jack L.; and Moore, George V., 3,645,690.

Martin, Dougall C., Jr. Fluid system leak detector. 3,659,453, 5-2-72, Cl. 73-40.

Martin, Edouard: *See*—
Aguinet, Gerard; Manoury, Jean; and Martin, Edouard, 3,658,472.

Martin, Edward Albert; and Garde, Douglas. Jitter free trigger circuit for a sampling oscilloscope. 3,699,458, 10-17-72, Cl. 328-60.000.

Martin, Edward T., III: *See*—

Ford, Thomas R.; and Martin, Edward T., III, 3,681,489.

Martin, Edwin J., Jr.: *See*—
Owen, James Neal; Moberly, Raymond Ronald; Martin, Edwin J., Jr.; Yamada, Akemichi; and Thomas, Edmund C., 3,675,162.

Martin, Elmore L., to Du Pont de Nemours, E. I., and Company. Segmented polyurethanes derived from 2,5-diisopropyl-p-xylylene diisocyanate. 3,655,623, 4-11-72, Cl. 260-77.5.

Martin, Elmore L., to Du Pont de Nemours, E. I., and Company. Substituted chalcogeno derivatives of tetracyanoquinodimethanes. 3,687,987, 8-29-72, Cl. 260-396.00n.

Martin, Elmore Louis, to Du Pont de Nemours, E. I., and Company. Charge-transfer complexes of fluoro- and cyano-substituted tetracyanoquinodimethanes. 3,681,353, 8-1-72, Cl. 260-267.000.

Martin, Ernest B. W. Board game apparatus. 3,692,310, 9-19-72, Cl. 273-131.0ab.

Martin, Eugene Earl: *See*—
Christie, Christopher E.; and Martin, Eugene Earl, 3,676,028.

Martin, Eugene G.; and Mohler, Edwin C., to Weaver, Victor F., Inc. Machine to de-bone chicken thighs. 3,672,000, 6-27-72, Cl. 17-11.000.

Martin Fireproofing Corporation: *See*—
Martin, Charles A., 3,638,384.

Martin, Francis W.: *See*—
Beall, George H.; and Martin, Francis W., 3,681,097.

Martin, Francis Willis, to Corning Glass Works. High durability lead titanate-containing enamel for glass ceramics. 3,663,244, 5-16-72, Cl. 106-49.

Martin, Frank C. Attachment for magnetic starters to protect three-phase electric motors. 3,671,808, 6-20-72, Cl. 317-13.00r.

Martin, Frederick R. P., to Ward, Martin, Developments Limited. Self-levelling vehicle lamps. 3,636,343, 1-18-72, Cl. 240-7.1.

Martin, Geoffrey, to Avco Corporation. Filler metal alloy for titanium brazing. 3,660,891, 5-9-72, Cl. 29-494.

Martin, George: *See*—
Hennart, Claude; Martin, George; Mandon, Jean-Pierre; and Rabussier, Bernard Aranton, 3,705,941.

Martin, George R.: *See*—
Head, Billy D.; Fraini, Edward A.; and Martin, George R., 3,705,097.

Martin, Gerald Y.; and Vines, John Murray, to Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence. Lateral load transfer. 3,661,090, 5-9-72, Cl. 104-114.

Martin, Godfrey Q., to Shell Oil Company. Fluid diffusion apparatus. 3,677,528, 7-18-72, Cl. 261-87.000.

Martin, Gregory L.; and Blair, Lloyd R. Precision generation of linear F.M. signal. 3,699,448, 10-17-72, Cl. 325-131.000.

Martin, Gustav J.: *See*—
Diamond, Julius; and Martin, Gustav J., 3,642,865.

Martin, Hans. Safety ski binding. 3,647,233, 3-7-72, Cl. 280-11.35.

Martin, Hans. Brake mechanism attached to a ski. 3,704,024, 11-28-72, Cl. 280-11.13b.

Martin, Harold B.; and Rogg, Herman O., to Graber-Rogg, Inc. Chord organs. 3,698,276, 10-17-72, Cl. 84-365.000.

Martin, Heinz: *See*—
Mosch, Willi; Lutz, Gerhard; Putter, Lothar; Waldkotter, Erich; and Martin, Heinz, 3,702,954.

Martin, Helmut, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. High-frequency cable. 3,668,573, 6-6-72, Cl. 333-84.00r.

Martin, Helmut, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. HF cable. 3,681,717, 8-1-72, Cl. 333-84.00r.

Martin, Helmut, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Method for guiding vehicles automatically along a predetermined path. 3,696,882, 10-10-72, Cl. 180-98.000.

Martin, Henry; Beriger, Ernst; and Moser, Kurt, to Ciba Limited. Nematocidal preparations containing phosphonium compounds as the ingredient. 3,642,989, 2-15-72, Cl. 424-211.

Martin, Henry; Rufener, Jacques; and Pissiotas, Georg, to Ciba-Geigy AG. Derivatives of N-phenylthalamide acid useful for regulating plant development. 3,658,892, 4-25-72, Cl. 260-518.

Martin, Henry; Duerr, Dieter; and Hitz, Rudolf, to Ciba Limited. Aryl ureas, a process for their preparation and agents containing them. 3,660,484, 5-2-72, Cl. 260-552.

Martin, Henry; and Pissiotas, Georg, to Ciba Limited. Derivatives of N-alkynyltrihaloimimidazole as active substances in agents for combating ectoparasites. 3,661,924, 5-9-72, Cl. 260-309.

Martin, Henry; and Pissiotas, Georg, to Ciba Limited. Certain-3-(2-lower-alkoxy-5-pyridyl)-ureas. 3,682,934, 8-8-72, Cl. 260-295.50d.

Martin, Henry; Aebi, Hans; and Ebner, Ludwig, to Ciba-Geigy AG. Method for selectively combating fungi and weed. 3,692,911, 9-19-72, Cl. 424-322.000.

Martin, Henry; Aebi, Hans Riehen; and Ebner, Ludwig, to Ciba-Geigy AG. Fungicidal and nematocidal compositions and methods of combating fungi or nematodes using N-(4-homo-3-halophenyl)-N'-lower alkyl-N'-lower alkoxy-urea. 3,702,363, 11-7-72, Cl. 424-322.00.

Martin, Henry; and Drabek, Jozef. Phosphonylcarbamyloxy-phosphonates. 3,705,212, 12-5-72, Cl. 260-926.000.

- Martin, Henry; and Drabek, Josef, to Ciba-Geigy AG. Vinyl phosphates, process for their preparation and pesticidal preparations containing them. 3,705,904, 12-12-72, Cl. 260-326.50a.
- Martin, Henry L., to Bunker-Ramo Corporation, The. Pile fabric finishing methods and apparatus. 3,641,635, 2-15-72, Cl. 26-2.
- Martin, Henry Woods, to Nugent, William W., & Co., Inc. Filter. 3,647,084, 3-7-72, Cl. 210-492.
- Martin, Homer Z., to Esso Research and Engineering Company. Fluid catalytic cracking process employing conventional cracking catalytic and superactive molecular sieve cracking catalyst. 3,649,521, 3-14-72, Cl. 208-120.
- Martin, Homer Z., to Esso Research and Engineering Company. Transferline fluid cracking process employing conventional cracking catalyst and superactive molecular sieve cracking catalyst. 3,649,522, 3-14-72, Cl. 208-120.
- Martin, Hubert: *See—*
Schmidt, Walther; and Martin, Hubert, 3,655,362.
- Martin Industries, Inc.: *See—*
Martin, Clyde J., 3,677,089.
Martin, Clyde J., 3,703,616.
- Martin, Irvin J.: *See—*
Stowe, Robert A.; and Martin, Irvin J., 3,641,180.
- Martin, Jack, to Westinghouse Electric Corporation. Ribbon conductor press seal structure. 3,681,640, 8-1-72, Cl. 313-222.000.
- Martin, Jack; and Gorecki, Joseph S., to Westinghouse Electric Corporation. Compact single-ended incandescent lamp having improved filament mount assembly. 3,696,265, 10-3-72, Cl. 313-222.000.
- Martin, Jack D. Machine tool. 3,638,520, 2-1-72, Cl. 82-24.
- Martin, James, to Bord NA Mona. Moss peat cake for horticulture. 3,656,930, 4-18-72, Cl. 71-24.
- Martin, James. Ejection seat and mechanism therefor. 3,701,502, 10-31-72, Cl. 244-122.0ad.
- Martin, James. Parachute harness and release mechanism therefor. 3,701,503, 10-31-72, Cl. 244-122.0ad.
- Martin, James. Vehicle ejection seats. 3,706,434, 12-19-72, Cl. 244-122.0ad.
- Martin, James B.: *See—*
Thompson, James E.; and Martin, James B., 3,634,397.
- Martin, James Earl, Sr. Internal expansion vapor engine. 3,695,036, 10-3-72, Cl. 60-27.000.
- Martin, Jean, —: *See—*
Perrier, Augustin, 3,660,992.
- Martin, Jerome A.: *See—*
Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A., 3,632,524.
Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A., 3,705,106.
- Martin, Jerry L., to Truth Incorporated. Check rail lock. 3,706,467, 12-19-72, Cl. 292-111.000.
- Martin, Jerry Roy, to Abbott Laboratories. 3-O-(2-L-mycarosyl)-8-hydroxy-erythronolide B. 3,684,794, 8-15-72, Cl. 260-210.00e.
- Martin, Joan Hixon: *See—*
Bonilla, Charles F., 3,697,234.
Waterbury, Nelson J., 3,667,478.
- Martin, Johannes Josef; and Weber, Erich, to Martin, Josef, Feuerungsbau G.m.b.H. Feed arrangement for a combustion furnace. 3,667,627, 6-6-72, Cl. 214-23.000.
- Martin, John: *See—*
Parker, William L.; Johnson, Francis; and Martin, John, 3,697,542.
- Martin, John A.: *See—*
Dahlem, Billy J.; and Martin, John A., 3,698,572.
- Martin, John C.; and Thompson, William L., to Bailey Meter Company. Silicon pressure transducer circuit. 3,646,815, 3-7-72, Cl. 73-398.
- Martin, John C., to Bunn-O-Matic Corporation. Apparatus for supplying hot water for coffee brewing purposes. 3,691,932, 9-19-72, Cl. 99-281.000.
- Martin, John C., to Bunn-O-Matic Corporation. Automatic coffee brewer with liquid level sensor. 3,691,933, 9-19-72, Cl. 99-282.000.
- Martin, John E.; and Landry, B. Roger, to Temptat Corporation. Automatically resettable fire sprinkler valve. 3,698,483, 10-17-72, Cl. 159-37.000.
- Martin, John Frank; and Ramsden, Charles Dean, to Fruehauf Corporation. Cargo container lifting and spacing apparatus. 3,671,069, 6-20-72, Cl. 294-81.0sf.
- Martin, John Henry Edward James; and Porter, John Norman, to American Cyanamid Company. Antifungal BH 890. 3,700,769, 10-24-72, Cl. 424-119.000.
- Martin, John J., to Avco Corporation. Forming and trimming apparatus for hydroform press. 3,672,194, 6-27-72, Cl. 72-55.
- Martin, John P.; Beninger, Darrell J.; and Lemon, John R., to Welwyn Canada Limited. Method for spiralling electrical resistors. 3,675,317, 7-11-72, Cl. 29-620.000.
- Martin, John R. Tension regulation apparatus. 3,659,767, 5-2-72, Cl. 226-195.
- Martin, John Robert, to Lever Brothers Company. Hard surface cleaner. 3,640,880, 2-8-72, Cl. 252-161.
- Martin, Josef, Feuerungsbau G.m.b.H.: *See—*
Martin, Johannes Josef; and Weber, Erich, 3,667,627.
- Martin, Joseph F.: *See—*
Bryzinski, Thaddeus F.; and Martin, Joseph F., 3,699,549.
Martin, Joseph F., 3,654,934.
- Martin, Joseph F., 25% to Martin, Joseph F., 25% to Marmanac, Inc. and 50% to Chemfilt Corporation of America, mesne. Tobacco smoke filter. 3,654,934, 4-11-72, Cl. 131-267.
- Martin, Joseph L., to Anvil Industries, Inc., mesne. Prefabricated conduit. 3,677,303, 7-18-72, Cl. 138-109.000.
- Martin, Joshua W., III, to Du Pont de Nemours, E. I., and Company. Apparatus for shocking materials. 3,658,268, 4-25-72, Cl. 241-301.
- Martin, Karl Anthonie: *See—*
Cowell, Clifton Douglas; and Martin, Karl Anthonie, 3,651,010.
- Martin, Kenneth C.; Baxter, Michael D.; and Holmes, John F., to Hobourn-Eaton Manufacturing Company Limited. Rotary pumps. 3,687,579, 8-29-72, Cl. 418-26.000.
- Martin, Kenneth G.; and Seufferer, Paul A., to Collins Radio Company. Dine and coarse synchro servomotor control including a dual sin/cosine to DC Converter. 3,701,936, 10-31-72, Cl. 318-595.000.
- Martin, Kenneth R.: *See—*
Orazem, Gerald J.; Martin, Kenneth R.; Dellinger, Matthew H.; and Leonhardt, William S., 3,642,648.
- Martin, Louis N. Delicate instrument shipping crate. 3,656,649, 4-18-72, Cl. 217-52.
- Martin, Marie Therese. Extendible wig rack. 3,658,283, 4-25-72, Cl. 248-122.
- Martin, Mary F.: *See—*
Fenner, Ralph L.; and Martin, Mary F., 3,688,579.
- Martin, Melvin M.: *See—*
Knight, Rodney W.; Martin, Melvin M.; and Martin, William R., 3,697,374.
- Martin, Merrill D. Method and apparatus for handling sheets. 3,658,322, 4-25-72, Cl. 271-76.
- Martin, Michel, to Compagnie de Saint-Gobain. Method for vertical suspension of glass sheets during thermal treatment. 3,677,731, 7-18-72, Cl. 65-102.000.
- Martin, Myron D. Corn popper. 3,701,312, 10-31-72, Cl. 99-238.600.
- Martin, Norman L., to Locke Stove Company. Cooking device. 3,693,534, 9-26-72, Cl. 99-260.000.
- Martin, Otis M.: *See—*
Kough, John K.; Martin, Otis M.; and Miller, Silas N., 3,696,570.
- Martin, Otis M.; Kough, John K.; Miller, Silas M.; and Kough, Blair B., to Ditz Crane. Blowback seal and gauge for building exterior panels. 3,664,081, 5-23-72, Cl. 52-540.
- Martin, Patricia: *See—*
Diamond, Julius; and Martin, Gustav J., 3,642,865.
- Martin, Paul A., to Quaker Oats Company. The. Multi-tune music box. 3,638,524, 2-1-72, Cl. 84-95.
- Martin, Paul B., Jr.; and Spencer, Gilbert W., to Reynolds, R. J., Tobacco Company. Self propelled sewage sludge excavator. 3,688,924, 9-5-72, Cl. 214-17.0db.
- Martin, Paul W., to Republic Industries, Inc. Combined door checking and door hold open mechanism. 3,696,462, 10-10-72, Cl. 16-49.0ho.
- Martin, Peter G. Lumped component standing wave ratio indicators for radio frequency transmission lines. 3,683,274, 8-8-72, Cl. 324-58.00r.
- Martin, Preston Kuhn; and Kelly, Richard Howard, to Celanese Corporation. Detergent polyelectrolyte builders. 3,706,672, 12-19-72, Cl. 252-156.000.
- Martin, Raymond E.: *See—*
Genyk, Walter; Martin, Raymond E.; Swift, George B.; Wiggins, Robert L.; and Wolfe, Raymond W., 3,702,510.
- Martin, Raymond Gerald, to United States of America, Navy, mesne. Magnetic detector. 3,653,351, 4-4-72, Cl. 114-20.
- Martin, Richard G.; Tuddenham, William M.; and Lebrizz, Joseph M., to Kennecott Copper Corporation. Method of analyzing circulation of electrolyte in electrorefining cells. 3,691,832, 9-19-72, Cl. 73-204.000.
- Martin, Ricky, to Bell Electronic Corporation. Inventor circuit with stabilized frequency under all load conditions. 3,667,027, 5-30-72, Cl. 321-11.000.
- Martin, Robert B.: *See—*
Burns, William F.; and Martin, Robert B., 3,707,464.
- Martin, Robert Bruce: *See—*
Matson, Carl G.; and Martin, Robert Bruce, 3,690,620.
- Martin, Robert C., to Dow Chemical Company. The. Aqueous hydraulic cement composition having improved retardation to set and use thereof in high temperature environments. 3,662,830, 5-16-72, Cl. 166-293.
- Martin, Robert I., to Rimar Manufacturing, Inc. Maintenance free door light insert assembly. 3,641,721, 2-15-72, Cl. 52-212.
- Martin, Robert I. Plastic door frame. 3,702,517, 11-14-72, Cl. 49-504.000.
- Martin, Robert J., to Cessna Aircraft Company, The. Axial piston device. 3,698,287, 10-17-72, Cl. 91-507.000.

- Martin, Robert L.: *See—*
Heinrich, Theodore M.; Martin, Robert L.; and Steele, David J., 3,697,850.
- Martin, Robert L., to General Electric Company. Ceramic locking outlet with improved grounding. 3,659,246, 4-25-72, Cl. 339-14.
- Martin, Robert L., to General Electric Company. Duplex locking receptacle. 3,694,790, 9-26-72, Cl. 339-14.00r.
- Martin, Robert L. Rotary magnetic disc circuit indicator. 3,705,350, 12-5-72, Cl. 324-133.000.
- Martin, Robert Lanham, to Bell Telephone Laboratories, Incorporated. Method of protecting data in a multiprocessor computer system. 3,683,418, 8-8-72, Cl. 444-1.000.
- Martin, Robert M. Horizontal bar exercising device. 3,707,285, 12-26-72, Cl. 272-62.000.
- Martin, Robert W. Abrasive hand tool. 3,634,982, 1-18-72, Cl. 51-394.
- Martin, Robert W. Tag line control mechanism. 3,695,473, 10-3-72, Cl. 214-657.000.
- Martin, Roger: *See—*
Wells, Frank Herbert; and Martin, Roger, 3,690,154.
- Martin, Ronald C.; and Sixt, Marty E., to Advanced Drainage Systems, Inc. Corrugated tubing. 3,658,097, 4-25-72, Cl. 138-121.
- Martin, Ronald C.; and Sixt, Marty E., to Advance Drainage Systems, Inc. Flexible coupling. 3,669,473, 6-13-72, Cl. 285-197.000.
- Martin, Ronald L., to Honeywell Inc. Changeover apparatus for a condition responsive device. 3,664,580, 5-23-72, Cl. 236-44.000.
- Martin, Ronald Raymond; and Danner, John Russell, Jr., to CPC International Inc. Combination of polyvinyl alcohol and gelling agent as a binder in match formulations. 3,650,712, 3-21-72, Cl. 44-42.
- Martin, Roy A.: *See—*
Cassady, Samuel G., 3,638,965.
- Martin, Salvador Olive: *See—*
Henrici, Gisela Henrici; and Martin, Salvador Olive, 3,647,902.
- Martin, Sidney L. Device useful in forming concrete structural slabs. 3,689,020, 9-5-72, Cl. 249-25.000.
- Martin, Sidney L. Hanger device useful in forming concrete structural slabs. 3,693,929, 9-26-72, Cl. 249-25.000.
- Martin, Stephen J. Negative impedance line isolators. 3,636,266, 1-18-72, Cl. 179-1.
- Martin, Stephen J., to Robertshaw Controls Company, mesne. Automatic security system. 3,662,112, 5-9-72, Cl. 179-5.
- Martin, Stephen J., to Spott Electrical Company. Sonic article-sorting system. 3,666,094, 5-30-72, Cl. 209-111.5.
- Martin, Stephen J., to Robertshaw Controls Company, mesne. Alphanumeric message readout circuit. 3,683,365, 8-8-72, Cl. 340-325.000.
- Martin, Stuart A., to McNeil Corporation. Storage racks. 3,635,354, 1-18-72, Cl. 211-177.
- Martin, Stuart A., to McNeil Corporation. Storage racks. 3,643,814, 2-22-72, Cl. 211-177.
- Martin, Stuart W.: *See—*
Jones, Claude K.; and Martin, Stuart W., 3,650,930.
- Martin, Tellis A., to Mead Johnson & Company. Zinc mercaptide N-acetylcysteine carboxylate salts. 3,647,834, 3-7-72, Cl. 260-429.9.
- Martin, Thomas B. Flow control valve. 3,677,288, 7-18-72, Cl. 137-501.000.
- Martin, Thomas B. Fluid pressure system. 3,694,105, 9-26-72, Cl. 417-26.000.
- Martin, Thomas E.: *See—*
Cohen, Kenneth W.; and Martin, Thomas E., 3,705,535.
- Martin, Thomas E. Stop leak composition. 3,692,549, 9-19-72, Cl. 106-33.000.
- Martin, Thomas W.: *See—*
Shea, Frederick L.; Joo, Louis A.; and Martin, Thomas W., 3,668,110.
- Martin, Vincent W.; and Steiner, Bruce G., to Hamilton Watch Company. Solid state timer. 3,657,571, 4-18-72, Cl. 307-293.
- Martin, W. R.: *See—*
Cassady, Samuel G., 3,638,965.
- Martin, Walter H., to Refrigeration Engineering Corporation. Poultry shackle. 3,680,173, 8-1-72, Cl. 17-44.100.
- Martin, Walter Harper, to Refrigeration Engineering Corporation. Method and means for unloading articles from a conveyor. 3,669,239, 6-13-72, Cl. 198-25.000.
- Martin, Warren L.: *See—*
United States of America, National Aeronautics and Space Administration, 3,648,250.
- United States of America, National Aeronautics and Space Administration, 3,648,256.
- United States of America, National Aeronautics and Space Administration, 3,659,292.
- Martin, Wayne A., to United States Steel Corporation. Heavy press forging apparatus and method. 3,638,471, 2-1-72, Cl. 72-377.
- Martin, Wayne H.: *See—*
Kohan, Melvin I.; Martin, Wayne H.; and Rosenbaum, Chester K., 3,676,400.
- Martin, Wendell L. Method and apparatus for controlling automatic shampoo machine. 3,653,376, 4-4-72, Cl. 128-66.
- Martin, Wesley G., to Aluminum Specialty Company. Footwear with adjustable-length shank. 3,635,854, 1-18-72, Cl. 280-11.26.
- Martin, William A.: *See—*
Cator, Edward J.; and Martin, William A., 3,647,125.
- Martin, William A.; and Bielicki, Marvin S., to Eastman Kodak Company. Control apparatus for a tape drive. 3,641,282, 2-8-72, Cl. 179-100.2.
- Martin, William A. Self closing toothpaste tube. 3,685,700, 8-22-72, Cl. 222-213.000.
- Martin, William Allen, to Eastman Kodak Company. Film advancing apparatus. 3,672,751, 6-27-72, Cl. 352-30.000.
- Martin, William E.: *See—*
Fearnow, Edgar C.; and Martin, William E., 3,658,617.
- Martin, William L.: *See—*
Willhite, Glen Paul; and Martin, William L., 3,654,691.
- Martin, William R.: *See—*
Knight, Rodney W.; Martin, Melvin M.; and Martin, William R., 3,697,374.
- Martin, William S.: *See—*
Almasi, Joseph C.; and Martin, William S., 3,679,996.
- Martin, William S.; and Chernoch, Joseph P., to General Electric Company. Multiple internal reflection face-pumped laser. 3,633,126, 1-4-72, Cl. 331-94.5.
- Martin, Wolfgang: *See—*
Schmid, Hans; Feldhoff, Heinrich; Martin, Wolfgang; Fessmann, Heinz; and Hahn, Edeleried, 3,640,063.
- Martin-Brower Corporation: *See—*
Schier, Jacques, 3,648,010.
- Martin-Marietta Corporation: *See—*
Adams, Duane J., 3,684,955.
Albert, Joseph J., 3,662,384.
Boblitt, Russell D., 3,634,342.
Broderick, John E., 3,702,072.
Busby, Hubbard Taylor, Jr., 3,639,386.
Corcoran, Vincent J.; Cupp, Richard E.; and Gallagher, James J., 3,689,851.
Cunningham, Robert A.; and Winkler, John T., 3,696,248.
Friedell, Morley V., 3,675,894.
Gates, Robert H., 3,683,061.
Gille, John P., 3,668,880.
Hintze, Melvin M.; Mari, John P.; McDaniel, Roy F.; and Evel, Eddie A., 3,706,044.
Hockin, John, 3,677,748.
Hollox, Graham E.; Precht, Walter; Lye, Robert G.; and Westwood, Albert R. C., 3,661,599.
Keller, Joseph D.; and Osborne, Solomon C., 3,665,367.
Kuethe, Melvin W., 3,664,463.
Larson, Clarence E.; and Dawley, Richard H., 3,655,104.
Larson, Clarence E.; and Schneider, Harold G., 3,697,117.
Lund, Carl H.; Hockin, John; and Wouds, Michael J., 3,677,331.
Macemon, Wallace J., 3,684,121.
Maldeis, Lewis Fritts; and Shideler, Aubrey Meredith, 3,653,951.
McGraw, Jay L.; and Gille, John P., 3,675,809.
Peluso, Raymond F.; and David, Richard F., 3,671,812.
Sagal, John, Jr., 3,661,888.
Scarborough, Joe M., 3,707,598.
Weinland, Stuart L.; and Coletti, Donn K., 3,694,264.
- Martin-Marietta Corporation, mesne: *See—*
Lund, Carl H.; Hockin, John; and Wouds, Michael J., 3,677,746.
Lund, Carl H.; Hockin, John; and Wouds, Michael J., 3,677,747.
- Martin-Thomas Limited: *See—*
Mattinson, Frederick, 3,680,839.
- Martina, Eugene F., to United States of America, Air Force. Selective neutron sensor. 3,688,118, 8-29-72, Cl. 250-83.100.
- Martindell, Howard R.: *See—*
Kreider, Benjamin A.; Schmidt, Charles J.; and Martindell, Howard R., 3,698,698.
- Martindill, Herman Y., to United Specialties, Inc. Fire door closing system. 3,683,551, 8-15-72, Cl. 49-4.000.
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Angele Wilhelm; and Martineck, Hans G., 3,670,290.
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Krauer, Werner; Martinelli, Alfred; and Oehme, Friedrich, 3,657,731.
Krauer, Werner; and Martinelli, Alfred, 3,677,577.
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Krauer, Werner; Martinelli, Alfred Adalbert; and Oehme, Friedrich, 3,666,652.
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Dulmage, Howard T.; Correa, Jose A.; and Martinez, Adelaido J., 3,702,359.

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Cook, Billy G.; Pollard, Barry; and Martinez, Romulo M., 3,683,488.
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- Marting, Paul G., to Wagner Electric Corporation. Control valve and system. 3,697,138, 10-10-72, Cl. 303-6.00c.
- Martini, Albert Michael, to Sel-Rex Corporation. Rhodium-platinum plating bath and process. 3,671,408, 6-20-72, Cl. 204-43.000.
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Risi, Walter, 3,669,246.
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Spescha, Gelli; Martini, Karlheinz; and Sonderegger, Hans Conrad, 3,640,130.
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Schwartz, Charles W.; and Martini, Richard W., 3,640,815.
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Schmid, Adolf; and Kuhn, Rudolf, 3,678,740.
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Morrison, Richard J.; Schlumpf, Arthur A.; and Martino, Albert J., 3,683,450.
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Wiesler, Mordechai; Martinonis, Virgil; and Macintyre, John S., 3,695,414.
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Young, Raymond H., Jr.; Markhart, Albert H.; and Martins, Joseph G., 3,650,799.
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Cornelius, William L.; and Martner, John G., 3,661,117.
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Heath, Robert A.; and Martoia, Ronald J., 3,648,803.
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Kirk, Colin John; and Bailey, Reginald John, 3,657,965.
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- Martuch, Leon L., to Scientific Angulus Inc. Tactile indicator for fly line. 3,653,143, 4-4-72, Cl. 43-44.98.
- Marty, Marvin G., Sr. Self-constraining container. 3,632,010, 1-4-72, Cl. 220-6.
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Malavard, Lucien C.; and Marty, Pierre M., 3,632,874.
- Martyn, Lloyd G., to McCoy Electronics Company. Piezoelectric crystal device including loading elements having the shape of chordal sections. 3,684,905, 8-15-72, Cl. 310-8.200.
- Martyn, William C.: *See—*
Jones, Clifton P.; and Martyn, William C., 3,646,383.
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Soderquist, Frederick J.; Kehde, Howard; and Martz, Lyle E., 3,652,699.
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- Martz, William L. Ventilator for water closets. 3,691,568, 9-19-72, Cl. 4-213.000.
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Miller, Louis W.; Lipic, Leonard G.; Kestler, Louise E.; and Martz, William M., 3,652,173.
- Martzloff, Francois D.: *See—*
Edgar, Robert F.; Martzloff, Francois D.; and Tompkins, Russell E., 3,671,893.
- Martzoleff, Clement L.: *See—*
Van Huffel, Philip L.; Raines, Harold J.; and Martzoleff, Clement L., 3,633,262.
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Ferris, Ray L.; and Marulic, Walter J., 3,653,621.
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- Marum, Edward C.: *See—*
Niesen, George P.; and Marum, Edward C., 3,703,156.
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Inagaki, Junpei; and Marumo, Hitoshi, 3,656,017.
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Mori, Yoichi; Marumo, Nagayuki; Noburu, Fukazawa; and Ohie, Koichi, 3,701,623.
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- Maruno, Fujiya: *See—*
Ashikawa, Noboru; and Maruno, Fujiya, 3,700,083.
- Marusarz, Bruno J.: *See—*
Lulay, John R.; Marusarz, Bruno J.; and Mateja, Edward J., 3,705,721.
- Marushima, Giichi: *See—*
Tanaka, Hiroshi; Marushima, Giichi; and Takahashi, Shinkichi, 3,651,323.
- Tanaka, Hiroshi; Nagamatsu, Katsumi; Marushima, Giichi; and Takahashi, Shinkichi, 3,666,363.
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Berger, Julius; Marusich, Wilbur Lewis; and Mitrovic, Milan, 3,652,763.
- Berger, Julius; and Marusich, Wilbur Lewis, 3,662,063.

- Maruska, William O.: *See—*
Carlson, Donovan R.; and Maruska, William O., 3,640,225.
- Maruta, Hisao: *See—*
Hori, Shojiro; and Maruta, Hisao, 3,697,240.
- Maruta, Isao: *See—*
Hamada, Takaki; Nakashio, Seizo; Maruta, Isao; Hayatsu, Kazuo; Seto, Tetsuki; and Kono, Yoichi, 3,700,630.
- Maruta, Iwao; Arai, Haruhiko; and Murata, Moriyasu, to Kao Soap Co., Ltd. Process of preventing agglomeration of fertilizers. 3,660,070, 5-2-72, Cl. 71-64.
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- Maruta, Masayasu: *See—*
Akamatsu, Kiyoshi; Maruta, Masayasu; and Yonekura, Yasushi, 3,687,785.
- Maruya, Mitsuru; Oono, Yoshio; Fukuda, Bunji; and Takahashi, Kenji, to Kanegafuchi Boseki Kabushiki Kaisha. Porous member for diffusing air and process for producing the same. 3,644,231, 2-22-72, Cl. 260-2.5.
- Maruyama, Eiichi: *See—*
Asai, Shojiro; Hirao, Motohisa; and Maruyama, Eiichi, 3,697,338.
- Maruyama, Hideyo, to Bridgestone Tire Company Limited. Joint reinforced conveyor belt. 3,664,490, 5-23-72, Cl. 198-193.000.
- Maruyama, Hiromi: *See—*
Yamane, Kazuo; and Maruyama, Hiromi, 3,654,559.
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Inaba, Shigeho; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,666,643.
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- Maruyama, Isao: *See—*
Kawasaki, Akihiro; Ueda, Hiroaki; and Maruyama, Isao, 3,652,518.
- Kawasaki, Akihiro; Ueda, Hiroaki; and Maruyama, Isao, 3,652,519.
- Kawasaki, Akihiro; and Maruyama, Isao, 3,700,638.
- Kokubo, Ryo; Yokomichi, Koji; Takakuwa, Yasuo; Maruyama, Isao; Shiroishi, Akihiro; and Nagakura, Mizuhiko, 3,637,686.
- Maruyama, Kuniaki: *See—*
Konishi, Kozo; Otake, Michio; Maeda, Tatuo; and Maruyama, Kuniaki, 3,672,941.
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Hirooka, Masaaki; Takeya, Kenji; Uno, Yoshihiro; Yamane, Akira; and Maruyama, Kunio, 3,692,754.
- Maruyama, Masahiro: *See—*
Furusawa, Hisatomo; Inaoka, Kazuyoshi; and Maruyama, Masahiro, 3,652,782.
- Maruyama Mfg. Co., Ltd.: *See—*
Crowther, Henry Richard; and Hurst, Thomas P., 3,631,910.
- Uchiyama, Ryoji, 3,652,188.
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Ueoka, Hisayoshi; Horii, Kazuo; Umeya, Kazumasa; and Maruyama, Syunsuke, 3,704,266.
- Maruyama, Tatsuo: *See—*
Sasaki, Hiroshi; Maruyama, Tatsuo; Kanzaki, Hisao; and Sakamoto, Yasuhiko, 3,641,274.
- Sasaki, Hiroshi; Maruyama, Tatsuo; Kanzaki, Hisao; Sakamoto, Yasuhiko; and Yasoshima, Nobuyuki, 3,643,031.
- Maruyama, Tsutomu: *See—*
Okamura, Seizo; Odan, Koji; and Maruyama, Tsutomu, 3,664,861.
- Maruyama, Yasushi: *See—*
Muroga, Ko; Okuda, Jiro; Shimasaki, Nobuhiko; Terashima, Toshio; Maruyama, Yasushi; Kaneyasu, Hiroshi; Sohma, Kikuya; and Lovell, Clarence A., 3,649,767.
- Maruyama, Yutaka: *See—*
Nakanishi, Michio; Tahara, Tetsuya; Imamura, Hiroshi; and Maruyama, Yutaka, 3,655,681.
- Nakanishi, Michio; Tahara, Tetsuya; Imamura, Hiroshi; and Maruyama, Yutaka, 3,655,682.
- Nakanishi, Michio; Oe, Takanori; and Maruyama, Yutaka, 3,678,077.
- Maruzen Oil Company Limited: *See—*
Kashiki, Asayuki, 3,705,770.
- Komatsu, Youji; Furukawa, Yasuhiro; and Yokomizo, Takashi, 3,662,015.
- Komatsu, Youji; Tamura, Takeshi; Fujii, Kinya; and Hatsutori, Masafumi, 3,665,034.
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- Maruzen Petrochemical Co., Ltd.: *See—*
Kawasaki, Akihiro; Ueda, Hiroaki; and Maruyama, Isao, 3,652,518.
- Kawasaki, Akihiro; Ueda, Hiroaki; and Maruyama, Isao, 3,652,519.
- Kawasaki, Akihiro; Taniguchi, Masanobu; and Nishiyama, Tsuneto, 3,658,775.
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Grange, Kenneth H., 3,673,972.
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Kudlaty, Walter J., 3,654,414.
- Niccum, Forest G.; Kudlaty, Walter J.; Daur, Charles W.; and Heinrich, Peter, Jr., 3,647,083.
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Wood, Arthur Eastman; Marvin, Ralph Edward; and Bates, Ralston Everett, 3,656,073.
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Watson, Gerard L.; and Latshaw, Don, 3,694,658.
- Marwede, Gunter: *See—*
Nutzell, Karl; Haas, Friedrich; and Marwede, Gunter, 3,684,781.
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- Pampus, Gottfried; Witte, Josef; and Marwede, Gunter, 3,707,520.
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- Marwil, Stanley J.: See—
Norwood, Donald D.; and Marwil, Stanley J., 3,644,323.
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Good, Richard Samuel Jonathon; and Harvey, Barry Charles, 3,680,438.
- Marwitz, Heinrich; and Nitzsche, Siegfried, to Wacker-Chemie G.m.b.H. Adhesive coatings comprising polysiloxanes. 3,671,485, 6-20-72, Cl. 260-33,45b.
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Fries, Gunter Karl; and Marx, Berthold Jakob, 3,662,638.
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Bjorn, James M.; and Marx, Frederick, Jr., 3,701,072.
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- Marx, Gerhard; and Heist, Hans, to Kalle Aktiengesellschaft. Apparatus for developing electrostatic images. 3,654,896, 4-11-72, Cl. 118-50.
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Fusco, Franc C., 3,650,064.
- Lohr, Raymond J.; Lewis, Merle R.; Hubiak, Walter; Kienholz, Charles M.; and Carver, Richard N., 3,636,651.
- Lohr, Raymond J.; and Merl, Carl J., 3,706,159.
- Marx, Matthias: See—
Eckert, Guenter; Marx, Matthias; Hartmann, Heinrich; and Wuertele, Lothar, 3,677,813.
- Wilhelm, Hans; Faulhaber, Gerhard; Marx, Matthias; and Hann, Ernst Wilhelm, 3,632,838.
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Dill, Harry L.; and Collins, Richard D., 3,640,243.
- Marion, Thomas E.; and Priborsky, Godfrey M., 3,703,066.
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Kerber, Heinz, 3,653,097.
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Samuels, Abe; Mueller, Rudolph C.; and Marzec, Casimir C., 3,682,550.
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Munzing, Robert, 3,670,115.
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Vicini, Dino, 3,695,809.
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Umezawa, Hamao; Shinichi, Kondo; Kenji, Maeda; Tomio, Takeuchi; and Masa, Hamada, 3,679,742.

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Hara, Yoshiaki; Masagaki, Akio; and Iguchi, Masaaki, 3,692,293.
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Yano, Osahiko; Nakamura, Takahiro; and Masahiro, Yao, 3,662,098.
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Hamanaka, Yasushi; Tajiri, Hiromi; Etoh, Kuniomi; Furukawa, Kaoru; and Masai, Yukito, 3,640,761.
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Sawada, Hiraki; and Masaki, Kenji, 3,662,541.
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Takuya, Suzuki; Masaru, Ikeda; Yoshio, Furuto; Yukihiro, Nagata; and Takeshi, Miura, 3,682,719.
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Hiroshi, Horino; and Masato, Matsuo, 3,694,525.
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Dunn, Eugene Blair; Masavage, Gerald James; and Sauer, Harold Alfred, 3,653,222.
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Huang, Ching Yun; Ueno, Kazuo; and Masawaki, Keizo, 3,683,044.
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Watanabe, Tetsuo; Oikawa, Akira; and Masayoshi, Kuroda, 3,696,854.
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Charrier, Andre George; Mascarello, Jean Marius; and Rigollet, Georges Alfred, 3,631,673.
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Le Febvre, Alfred B.; Masch, Helmut E. W.; Robert, Louis; and Morse, Hugh H., 3,648,573.
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Rovati, Luigi; Mascherpa, Sergio; and Casula, Pierluigi, 3,697,652.
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Steuftmehl, Willi, 3,639,006.
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Sevenich, Theodor; Zahn, Friedrich; and Zens, Peter, 3,695,080.
- Sevenich, Theodor Josef; Fabian, Wolfgang; and Kuhn, Klaus, 3,700,122.
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Steuftmehl, Willi, 3,642,326.
- Maschinenbau Aachen-Furstenau Gesellschaft mit beschränkter Haftung, Firma: See—
Hartleib, Franz; and Windelbandt, Herbert, 3,659,394.
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Kralowetz, Bruno; and Heimeil, Othmar, 3,681,966.
- Maschinenbau VITS G.m.b.H.: See—
Vits, Hilmar, 3,680,223.
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Henning, Herbert; Alt, Werner; and Reiter, Paul, 3,643,931.
- Spangemacher, Kurt, 3,635,042.
- Spangemacher, Kurt, 3,685,579.
- Maschinenfabrik Alfred Schmermund: See—
Schmermund, Alfred; and Scholz, Rudolf O., 3,696,910.
- Maschinenfabrik Andritz Aktiengesellschaft: See—
Lileg, Johann; and Reif, Kurt, 3,651,866.
- Reif, Kurt, 3,676,011.
- Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft: See—
Heinz, Hubert; and Honsberg, Gunter, 3,704,837.
- Kayserling, Ulrich, 3,661,096.
- Koschatzky, Karl, 3,705,512.
- Liebert, Oskar; and Theilacker, Klaus, 3,703,281.
- Mayer, Stephan; and Engel, Rolf, 3,659,569.
- Moll, Hans H.; and Hundt, Werner, 3,638,751.
- Ruhl, Rudolf, 3,640,639.
- Simon, Michael, 3,644,974.
- Stoll, Albert; and Wanka, Walter, 3,679,862.
- Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft Zweig-niederlassung Nurnberg: See—
Bauer, Josef, 3,687,575.
- Fischer, Hans, 3,648,572.
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Laussermair, Friedrich; and Ziemer, Albrecht, 3,680,934.
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Basfeld, Klaus; and Schreiber, Heinrich, 3,638,798.
- Pause, Kurt, 3,648,926.
- Pause, Kurt, 3,664,151.
- Maschinenfabrik Burckhardt AG: See—
Strebel, Albert; and Scheuber, Konrad, 3,653,211.
- Strebel, Albert; and Habegger, Oskar, 3,657,972.
- Strebel, Albert; and Habegger, Oskar, 3,677,107.
- Wahrenberger, Hans Jorg, 3,657,973.
- Maschinenfabrik Carl Zangs Aktiengesellschaft: See—
Rolaufts, Hans; Hoven, Hubert; Hippel, Hans; and Schafer, Max, 3,695,199.
- Maschinenfabrik Ettlingen, Friedrich Pfeiffer KG: See—
Gauger, Friedhelm, 3,649,727.
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Purser, Josef, 3,705,482.
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Bruer, Dirk; Schaible, Siegfried; Wagenblast, Ernst; and Hohlwe-gler, Heinz, 3,685,674.
- Glunk, Josef; and Gnadler, Heinz, 3,662,529.
- Maier, Martin; and Wolf, Eberhard, 3,640,056.
- Maugg, Josef, 3,648,448.
- Purser, Josef, 3,638,977.
- Wagenblast, Ernst; and Hohlwegler, Heinz, 3,637,098.
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Maugg, Josef, 3,664,106.
- Maschinenfabrik Fr. Niepmann & Co.: See—
Niepmann, Otto, 3,672,541.
- Maschinenfabrik Froriep G.m.b.H.: See—
Noa, Fritz, 3,662,442.
- Maschinenfabrik Goebel GmbH: See—
Emich, Georg Konrad, 3,669,369.
- Herd, Joseph, 3,706,250.
- Maschinenfabrik Hennecke GmbH: See—
Kisteneich, Heinz; and Proksa, Ferdinand, 3,706,516.
- Maschinenfabrik Kleindienst & Co.: See—
Von Kulmer, Ulrich, 3,705,435.
- Maschinenfabrik Lorenz AG: See—
Axtmann, Adam, 3,640,167.
- Maschinenfabrik Meyer & Burger A.G.: See—
Stauffer, Alfred, 3,678,918.
- Maschinenfabrik Oerlikon: See—
Schaetti, Norbert, 3,643,001.
- Maschinenfabrik Reinhausen Gebrüder Scheubeck K.G.: See—
Bleibtreu, Alexander; Schunda, Anton; and Poppl, Max, 3,632,908.
- Bleibtreu, Alexander, 3,671,687.
- Maschinenfabrik Sack G.m.b.H.: See—
Pahnke, Hans Jochim, 3,657,916.
- Sack, Ernst Theodor, 3,664,167.
- Schenk, Horst; and Guse, Rudolf, 3,656,334.
- Maschinenfabrik Schweiter AG: See—
Schreiber, Manfred, 3,704,494.
- Stapfer, Jakob, 3,665,568.
- Maschinenfabrik Stromag G.m.b.H.: See—
Bohm, Heinz-Dieter; Muller, Unna Wolfgang; and Hobert, Her- bert, 3,706,365.
- Ernst, Lothar; and Ruggen, Werner, 3,678,708.
- Schlotmann, Karl; Bohm, Heinz-Dieter; and Ruggen, Werner, 3,702,545.
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Dokoupil, Jiri, 3,677,041.
- Maschinenfabrik VITS G.m.b.H.: See—
Vits, Hilmar, 3,633,281.
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Heimlicher, Paul, 3,684,279.
- Pato, Tibor Georges, 3,637,155.
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Moesser, Wilhelm, 3,674,194.

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Maschke, Arnold E.: *See—*
Keyman, Jacobus M.; and Maschke, Arnold E., 3,692,714.

Maschke, Artur: *See—*
Koenig, Karl-Heinz; Maschke, Artur; and Fischer, Adolf, 3,679,678.

Mascia, Carmen T.: *See—*
Bagguley, Richard B.; and Mascia, Carmen T., 3,667,637.

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Mascia, Carmen T., to Continental Can Company, Inc. Carrier and can opener combination. 3,664,496, 5-23-72, Cl. 206-65.

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Mascia, Carment T.: *See—*
Stanley, Thomas R.; and Mascia, Carment T., 3,687,341.

Masciantonio, Philip X.: *See—*
Callighan, Robert H.; and Masciantonio, Philip X., 3,644,508.
Callighan, Robert H.; and Masciantonio, Philip X., 3,705,922.

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Mascio, Dominic: *See—*
Woessner, Richard; Bryer, Jack; and Mascio, Dominic, 3,659,525.

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Sulkowski, Theodore S.; and Mascitti, Albert A., 3,647,865.
Sulkowski, Theodore S.; and Mascitti, Albert A., 3,649,640.

Masclet, Jean: *See—*
Lucien, Rene; and Masclet, Jean, 3,664,467.

Masco Corporation: *See—*
Manoogian, Alex; and Pullen, Eric V., 3,645,493.
Manoogian, Alex; and Pullen, Eric V., 3,674,048.
Manoogian, Alex, 3,700,210.
Manoogian, Alex, 3,700,211.

Masco, Howard L., to Atlas Chemical Industries, Inc. Use of cesium as a stimulant in mammals. 3,641,242, 2-8-72, Cl. 424-153.

Mase, Jiro: *See—*
Sugawara, Tsunenori; Shibuya, Teiji; Miyakado, Satoru; and Mase, Jiro, 3,695,466.

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Mase, Yasuo: *See—*
Torikata, Akio; Kayamori, Hisashi; Mase, Yasuo; Murata, Keiji; and Mackawa, Reizo, 3,649,458.

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Masek, Sophia D.: *See—*
Masek, Miles Gregory; and Masek, Sophia D., 3,653,344.

Masel, Marvin: *See—*
Eaton, Bradley C.; and Masel, Marvin, 3,668,693.

Masel, Marvin; and Wedlake, Albert J., to Singer Company, The. mesne. Methods of and apparatus for testing electromagnetic indicators. 3,639,837, 2-1-72, Cl. 324-158.

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Mashimo, Takeshi: *See—*

Kuga, Mutsuo; Mashimo, Takeshi; Arai, Teruo; and Yano, Yoshihiko, 3,632,728.

Kuga, Mutsuo; Mashimo, Takeshi; Watanabe, Junkichi; Arai, Teruo; and Yano, Yoshihiko, 3,651,200.

Mashimo, Teruo: *See—*
Shibayama, Daigoro; and Mashimo, Teruo, 3,676,074.

Mashimo, Yukio: *See—*
Kitanosono, Tatsushi; Mashimo, Yukio; and Takishima, Yoshiyuki, 3,678,354.
Takishima, Yoshiyuki; and Mashimo, Yukio, 3,688,659.

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Hirooka, Masaaki; Yasui, Seimei; Mashita, Kentaro; and Kimura, Fumiyuki, 3,700,648.

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Masi, Anthony S. Molding machine. 3,695,338, 10-3-72, Cl. 164-181.000.

Masiuk, Alphonse M.: *See—*
Tobey, Hubert E.; Masiuk, Alphonse M.; Hood, John W.; and Irvin, Dee L., 3,669,165.

Mask, Charles A.: *See—*
Cosgrove, Richard E.; Krull, Irwin H.; and Mask, Charles A., 3,706,649.

Mask-Off Company: *See—*
Emigh, John H., 3,684,737.

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Maskrey, John Thomas: *See—*
Dugdale, Ronald Arthur; Ford, Stanley Denis; and Maskrey, John Thomas, 3,678,334.

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Maslowski, Stefan: *See—*
Borner, Manfred; and Maslowski, Stefan, 3,636,529.
Borner, Manfred; Maslowski, Stefan; and Krumpholz, Oskar, 3,704,996.

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Keith, Carl D.; Masologites, George P.; and Mooi, John, 3,660,271.
Keith, Carl D.; Masologites, George P.; and Mooi, John, 3,684,692.

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Boswell, Gordon H., 3,650,355.

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Mason, Anthony, to Whirlpool Corporation. Filter condition indicator. 3,639,998, 2-8-72, Cl. 34-82.

Mason, Bertran W., Jr.: *See—*
Graffeo, Joseph Victor, Jr.; Mason, Bertran W., Jr.; and Wells, Wallace Ogden, 3,664,948.

Mason, Charles D.: *See—*
Schaffhauser, Robert J.; and Mason, Charles D., 3,635,933.

Schaffhauser, Robert J.; and Mason, Charles D., 3,635,934.

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Bergy, Malcolm E.; Herr, Ross R.; and Mason, Donald Joseph, 3,642,987.
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Mason, Edwin E., to Design Elements, Inc. Solenoid drive circuit. 3,660,730, 5-2-72, Cl. 317-148.5.

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Mason, Harold F., to Chevron Research Company. Two-stage process for producing naphtha from petroleum distillates. 3,660,270, 5-2-72, Cl. 208-59.

Mason, Howard Carl: *See—*
Parnell, Willis E., 3,666,597.

Mason, Iain Mc Laren: *See—*
Humphries, Reginald Frederick; and Mason, Iain Mc Laren, 3,678,304.

Mason, James N.; and Davidson, Charlotte C., to Sports Management Services, Inc. Golf practice device and game. 3,687,457, 8-29-72, Cl. 273-176.0fa.

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Narayana, Munisamappa; Keskkula, Henno; and Mason, Jerry E., 3,639,522.
Narayana, Munisamappa; Keskkula, Henno; and Mason, Jerry E., 3,641,212.
Narayana, Munisamappa; and Mason, Jerry E., 3,689,596.

Mason, Jimmie L.: *See—*
Prussin, Samuel Benjamin; and Mason, Jimmie L., 3,653,553.

Mason, John B.: *See—*
Jellison, Frank R.; Mason, John B.; and McQueen, Terry K., 3,674,283.

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Mason, John H.: *See—*
Economy, James; Wohrer, Luis C.; and Mason, John H., 3,674,894.

Mason, John W.: *See—*
Castrucci, Paul P.; Gates, Harlan R.; Henle, Robert A.; Pricer, Wilbur David; Morton, Robert M.; Mason, John W.; and North, William D., 3,641,516.

Mason, John W. Portable and adjustable miniature basketball goal. 3,669,450, 6-13-72, Cl. 273-1.50r.

Mason, John William: *See—*
Novak, Vincent F.; and Mason, John William, 3,692,396.

Mason, Kurt E., to McDonnell Douglas Corporation. Cable fairlead assembly. 3,665,548, 5-30-72, Cl. 16-2.000.

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Mason, Lawrence J.; and Paradysz, Louis F., to Xerox Corporation. Alphabetic projection disc assembly. 3,695,161, 10-3-72, Cl. 95-85.000.

Mason, Lowell M.: *See—*
Gawthrop, Roy E.; and Mason, Lowell M., 3,659,337.

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Pittet, Alan O.; Mason, Michael E.; Theimer, Ernst T.; and Tibbetts, Merrick S., 3,686,177.

Mason, Paul B., to Polaroid Corporation. Dryer. 3,661,578, 5-9-72, Cl. 96-29.

Mason, Paul J.: *See—*
Wells, Rodney L.; Ulmer, Harry E.; and Mason, Paul J., 3,697,249.

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Arey, William F.; Hamner, Glen P.; Mason, Ralph B.; and Rigney, James A., 3,684,691.
Hamner, Glen P.; and Mason, Ralph B., 3,691,058.

Mason, Ralph B.; and Hamner, Glen P., to Esso Research and Engineering Company. Cracking hydrocarbon residua. 3,707,459, 12-26-72, Cl. 208-76.000.

Mason, Raymond J.: *See—*
Minarik, William J.; and Mason, Raymond J., 3,678,360.

Mason, Raymond J., to Minarik Electric Company. Triac motor speed control. 3,634,874, 1-11-72, Cl. 318-345.

Mason, Richard K., to Textron, Inc. Torque motor operated valve. 3,643,699, 2-22-72, Cl. 137-625.64.

Mason, Robert P., to LogElectronics Inc. Radiographic reduction system. 3,700,329, 10-24-72, Cl. 355-81.000.

Mason, Robert S.: *See—*
Bush, James S.; and Mason, Robert S., 3,665,792.

Mason, Ronald C.: *See—*
Wickers, Francis A.; France, David W.; and Mason, Ronald C., 3,665,877.

Mason, Ronald F.: *See—*
Bauer, Ronald S.; Glockner, Peter W.; Keim, Wilhelm; and Mason, Ronald F., 3,647,915.
Glockner, Peter W.; Keim, Wilhelm; and Mason, Ronald F., 3,647,914.
Morris, Rupert C.; and Mason, Ronald F., 3,673,231.

Mason, Ronald F.; and Keim, Wilhelm, to Sun Oil Company. Novel 9-carboxymethyl-9-phosphabicyclononanes and alkali metal salts thereof. 3,636,091, 1-18-72, Cl. 260-514.

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Mason, Ronald Thomas: *See—*
Columbus, Peter Spiros; and Mason, Ronald Thomas, 3,692,713.

Mason, Virginia S. Self-operating traction system. 3,699,953, 10-24-72, Cl. 128-75.000.

Mason, Warren Perry, to Bell Telephone Laboratories, Incorporated. Monolithic crystal filter with auxiliary filter shorting tabs. 3,676,805, 7-11-72, Cl. 333-72.000.

Mason, William B.; and Houst, Douglas R., to General Electric Company. Control circuits for an electric tractor. 3,649,896, 3-14-72, Cl. 318-387.

Mason, William L.; and Lantz, Donald J. Pulse rate counter and display and method of operation. 3,661,147, 5-9-72, Cl. 128-2.05.

Masone, Thomas R.: *See—*
Belcher, Richmond D.; Duggan, Robert J.; Ellis, George R.; Esslinger, Robert H.; Goodyear, W. Frederick; Marshall, Joseph C.; and Masone, Thomas R., 3,656,148.

Masoneilan International, Inc.: *See—*
Baumann, Hans D., 3,665,965.

Masonite Corporation: *See—*
Thrasher, Elbridge W., 3,645,304.

Mass Feeding Corporation: *See—*
Kanna, Leslie J., 3,645,199.
Malkin, Emanuel, 3,699,307.
Virmig, Herbert J., 3,672,916.

Massa, Charles Donald, to American Can Company. Flash removal apparatus. 3,661,492, 5-9-72, Cl. 425-307.

Massa Division, Dynamics Corporation of America: *See—*
Massa, Donald P., 3,656,097.
Massa, Frank, 3,651,576.
Massa, Frank, 3,654,072.
Massa, Frank, 3,685,487.

- Massa, Frank, 3,699,507.
 Massa, Frank, 3,699,508.
 Massa, Frank, 3,707,131.
 Massa, Frank, Jr., 3,643,208.
 Massa, Donald P., to Massa Division, Dynamics Corporation of America. Signal processing system for extracting a periodic signal of unknown frequency from a high level background noise. 3,656,097, 4-11-72, Cl. 340-5.
 Massa, Frank, to Dynamics Corporation of America. Electroacoustic transducers of the bilaminar flexural vibrating type. 3,638,052, 1-25-72, Cl. 310-8.2.
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 Massa, Frank, to Massa Division, Dynamics Corporation of America. Monitoring a chemical processing system by measuring the instantaneous sound transmission characteristics therein. 3,654,072, 4-4-72, Cl. 162-49.
 Massa, Frank, to Massa Division Dynamics Corporation of America. Coating trough with some energy activating means. 3,685,487, 8-22-72, Cl. 118-72.000.
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 Massa, Frank, to Massa Division Dynamics Corporation of America. Electroacoustic transducers of the bilaminar flexural vibrating type. 3,707,131, 12-26-72, Cl. 179-110.00a.
 Massa, Frank, Jr., to Massa Division Dynamics Corporation of America. Underwater separable connector. 3,643,208, 2-15-72, Cl. 339-102.
 Massa, James. Molded headpiece with means for restricting the crown rim. 3,631,539, 1-4-72, Cl. 2-3.
 Massa, Joseph H., to National Screw & Manufacturing Company. The. High strength structural blind fastener for use in airplanes, rockets and the like. 3,643,544, 2-22-72, Cl. 85-72.
 Massachusetts Institute of Technology: See—
 Aponick, Anthony A., Jr.; and Gottling, James G., 3,680,204.
 Baker, Richard H., 3,705,391.
 Cox, Duncan B., Jr.; and Fertig, Kenneth, 3,641,429.
 Cox, Duncan B., Jr.; Fertig, Kenneth; and Fulton, Donald E., 3,667,031.
 Cox, Duncan B., Jr.; and Fertig, Kenneth, 3,706,092.
 Kleppner, Daniel, 3,691,381.
 Kolm, Henry H., 3,676,337.
 Kolm, Henry H., 3,703,958.
 Kuenzler, Howard W., 3,690,147.
 Lax, Benjamin, 3,655,986.
 Malsky, Herbert, 3,694,080.
 Merrill, Edward W.; and Wong, Patrick Seck-Lai, 3,658,745.
 Merrill, Edward W.; and Wong, Patrick Seck-Lai, 3,673,612.
 Monett, Michael R., 3,674,930.
 Nugent, John B., 3,703,084.
 Orowan, Egon, 3,655,424.
 Phelan, Robert J., Jr., 3,649,838.
 Platakis, Nicholas S.; Gatos, Harry C.; and Witt, August F., 3,689,242.
 Pratt, George W., Jr., 3,676,795.
 Rediker, Robert H., 3,636,471.
 Seyferth, Dietmar; and Lambert, Robert L., Jr., 3,658,861.
 Seyferth, Dietmar; and Spohn, Ralph J., 3,692,652.
 Seyferth, Dietmar; Hopper, Steven P.; and Darragh, Kird V., 3,694,477.
 Swain, Charles Gardner, 3,673,502.
 Thornton, Richard D.; and Borky, John M., 3,667,064.
 Williams, James M., 3,679,910.
 Wilson, David G., 3,673,966.
 Wissa, Anwar E. Z., 3,635,078.
 Massagli, Danie; and Massagli, Marino Ralph, to Tru-Lok Metal Fabricating Company, Inc. Machine for producing plastic foam-sheet metal panels. 3,643,306, 2-22-72, Cl. 29-33.
 Massagli, Marino Ralph: See—
 Massagli, Danie; and Massagli, Marino Ralph, 3,643,306.
 Massar, Ernst; and Voigt, Hans, to Siemens Aktiengesellschaft. Superconductive switching path for heavy current. 3,691,491, 9-12-72, Cl. 335-216.000.
 Massara, John A., to CF & I Steel Corporation. Rolling mill guide. 3,661,006, 5-9-72, Cl. 72-227.
 Massarani, Elena; Nardi, Dante; and Degen, Ludwig, to Societe d'Exploitations Chimiques et Pharmaceutiques Seceph S.A. α -Halocetylanylino- α -alkoxy-acetophenones. 3,647,879, 3-7-72, Cl. 260-570.5.
 Massari, Bernard J. Apparatus for cutting indicia from tape. 3,673,953, 7-4-72, Cl. 101-19.000.
 Massarins, Janis, to General Motors Corporation. Road wheel for crawler tractor. 3,689,122, 9-5-72, Cl. 305-27.000.
 Massaro, Robert D. Container opening and closing device. 3,683,433, 8-15-72, Cl. 7-14.600.
- Massarotti, Luigi, to Atomjubil S.r.l. Carburetor for internal-combustion engine. 3,674,245, 7-4-72, Cl. 261-28.000.
 Masse, Michel Stephane; and McDowell, James Paul, to RCA Corporation. Servo system with noise cancellation. 3,683,254, 8-8-72, Cl. 318-608.000.
 Massebeuf, Jacques: See—
 Garnier, Roger; Hogenmuller, Roger; and Massebeuf, Jacques, 3,660,348.
 Masselink, Annegien; Bakker, Martinus Antonius Maria; and Visser, Bauke, to U.S. Philips Corporation. Crystal support for a semiconductor crystal. 3,707,358, 12-26-72, Cl. 29-195.000.
 Massell, Ingo: See—
 Zieg, Wilhelm; Schmidt, Georg; Hauck, Edgar; Massell, Ingo; and Greubel, Gustav, 3,635,111.
 Massella, Mario, 50% to Colombo, Ernesto. Footwear. 3,665,621, 5-30-72, Cl. 36-37.
 Masseran, Jean, to Micro-Mega. Dental instrument for root canal work. 3,703,767, 11-28-72, Cl. 32-40.000.
 Masserini, Arnaldo: See—
 D'Alo, Franco; and Masserini, Arnaldo, 3,632,809.
 Massetani, Manlio. Machine to manufacture closing folding elements and the doors and shutters manufactured with the same. 3,643,713, 2-22-72, Cl. 144-86.
 Masseth, Thomas J.: See—
 Houle, Conrad G.; and Masseth, Thomas J., 3,671,251.
 Massey, Dolas L. Threaded pipe joint facing tool. 3,691,882, 9-19-72, Cl. 82-4.00c.
 Massey, Eddie H.; and Kitchell, Barbara S., to Lilly, Eli, and Company. Epierhythromycylamine and epierhythromycyl B amine. 3,652,537, 3-28-72, Cl. 260-210.
 Massey, Eddie H., to Lilly, Eli, and Company. N-arylidene erythromycylamines. 3,660,376, 5-2-72, Cl. 260-210.
 Massey, Eddie H., to Lilly, Eli, and Company. Cephalosporin salts. 3,676,434, 7-11-72, Cl. 260-243.00c.
 Massey, Emmett J.: See—
 Kamp, Ewald A.; and Massey, Emmett J., 3,648,804.
 Massey, Gail A., to United States of America, Navy. Mirrorless optical cavity. 3,654,482, 4-4-72, Cl. 307-88.3.
 Massey, John V., to Container Corporation of America. Protective and decorative sleeve for containers. 3,680,726, 8-1-72, Cl. 215-12.00r.
 Massey, Norman G.: See—
 Kozma, Adam; Leith, Emmett N.; and Massey, Norman G., 3,637,290.
 Massey-Ferguson G.m.b.H.: See—
 Herbsthofer, Franz Joseph, 3,664,525.
 Wenzel, Alfred Johannes; and Hantel, Alwin, 3,690,359.
 Massey-Ferguson Inc.: See—
 Askins, William J., 3,642,159.
 Lorenz, Leo J., 3,633,315.
 Reuter, Floyd W.; and Herrick, Frank T., 3,684,026.
 Richey, Clarence B., 3,662,840.
 Thorstad, Ole J.; and Thompson, Howard G., 3,662,839.
 Massey-Ferguson Industries Limited: See—
 Ball, Douglas C.; and Neufeld, John W., 3,635,174.
 Girodat, Joseph C. F., 3,675,660.
 Neufeld, John W., 3,666,339.
 Schnarr, Howard A., 3,703,325.
 Thomas, Werner E., 3,664,720.
 Twidall, William H.; and Byrnes, Mark K., 3,695,015.
 Weber, Wilbert D.; and Ashton, Robert, 3,693,330.
 Massey-Ferguson Services N.V.: See—
 Belford, Bertram C., 3,648,234.
 Bennett, John S., 3,679,032.
 Crawford, Alexander, 3,706,273.
 Pensa, Pietro, 3,656,820.
 Pensa, Pietro, 3,661,215.
 Thomas, Alfred W., 3,674,106.
 Thomas, Alfred William, 3,675,497.
 VanDest, Jean Claude, 3,690,734.
 Massie, Denis. Nursery bassinet unit. 3,631,547, 1-4-72, Cl. 5-93.
 Massie, Harold Lee: See—
 Mount, Bruce Elson; and Massie, Harold Lee, 3,663,932.
 Massie, Philip E. Axial gear train. 3,640,154, 2-8-72, Cl. 74-800.
 Massie, Stephen N.: See—
 De Rosset, Armand J.; Wackher, Richard C.; and Massie, Stephen N., 3,689,405.
 Massie, Stephen N.; and Daum, Robert E., to Universal Oil Products Company. Hydroxylation of aromatic compounds. 3,662,006, 5-9-72, Cl. 260-613.
 Massie, Stephen N., to Universal Oil Products Company. Preparation of aromatic acids. 3,679,740, 7-25-72, Cl. 260-524.00r.
 Massie, Stephen N. Hydroxylation of aromatic compounds. 3,692,842, 9-19-72, Cl. 260-613.00d.
 Massie, Stephen N., to Universal Oil Products Company. Alkylation of aromatics with alkyl halides. 3,705,201, 12-5-72, Cl. 260-671.00c.
 Massie, Stephen N., to Universal Oil Products Company. Alkylation of aromatics with olefins. 3,705,202, 12-5-72, Cl. 260-671.00c.

- Massie, Stephen N., to Universal Oil Products Company. Preparation of alcohols. 3,705,912, 12-12-72, Cl. 260-397.200.
 Massillon Container Co.: See—
 Farrell, John D., 3,700,160.
 Massimino, Antonio: See—
 Colombini, Ariano; Viviani, Bruno; Massimino, Antonio; and Sironi, Giuseppe, 3,684,492.
 Massino, Marena: See—
 Balducci, Agostino; Baradel, Agostino; and Massino, Marena, 3,689,473.
 Massion, Robert J.: See—
 Plunkett, Larry D.; and Massion, Robert J., 3,662,777.
 Massman, Richard: See—
 Chittenden, Richard Marion; Whitton, Alden William; Macalalad, Fidel Villaluna; Massman, Richard; and Wilson, Earl David, 3,690,315.
 Masso, Richard W.: See—
 Field, Edwin C.; Kulicke, Frederick W., Jr.; and Masso, Richard W., 3,643,321.
 Masson, Narinder; Korenicki, William John; and Lechner, Walter Ludwig, to Gamon-Calmel Industries, Inc. Compound fluid meter. 3,677,084, 7-18-72, Cl. 73-197.000.
 Masson, Narinder; Korenicki, William John; and Lechner, Walter Ludwig. Compound fluid meter. 3,703,098, 11-21-72, Cl. 73-231.00r.
 Masson Scott Thrissell Engineering Limited: See—
 Bossons, Walter H.; Parker, David George; and Burcher, George D., 3,657,858.
 Lindstaedt, Horst Karl, 3,695,532.
 Parker, David George, 3,701,232.
 Masson Scott Thrissell Engineering Limited: See—
 Bennett, John P.; and Wilshin, Frank W., 3,658,272.
 Lindstaedt, Horst Karl, 3,695,538.
 Lindstaedt, Horst Karl, 3,695,539.
 Massonne, Joachim: See—
 Rudolph, Werner; and Massonne, Joachim, 3,680,289.
 Massonnet, Henry. Process for the manufacture of solid parts from thermo-plastic material. 3,651,203, 3-21-72, Cl. 264-328.
 Massonnet, Henry. Chairs. 3,669,497, 6-13-72, Cl. 297-445.
 Massoubre, Jean-Marie, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Acceleration of sulfur vulcanization of polyurethanes. 3,669,932, 6-13-72, Cl. 260-75.0nc.
 Massoubre, Jean-Marie, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Sulfur-vulcanizable polyurethanes having multiple terminal allyl groups. 3,686,147, 8-22-72, Cl. 260-75.0np.
 Massoud, Joseph T.: See—
 Mifflin, Ralph W.; Wheeler, Joseph P.; and Massoud, Joseph T., 3,641,433.
 Massouras, Charis Aka Charilaos George. Intra-uterine device. 3,645,258, 2-29-72, Cl. 128-130.
 Massover, Hyman A.; deceased (by Shapiro, David I.; Massover, Pearl E.; and Rusnak, Raymond L.; co-executors). Showcase alarm system. 3,686,660, 8-22-72, Cl. 340-274.000.
 Massover, Pearl E.: See—
 Massover, Hyman A., 3,686,660.
 Mast Development Company: See—
 Mast, Gifford M.; and Moeller, Lloyd E., 3,665,163.
 Mast, Gifford M.; and Moeller, Lloyd E., to Mast Development Company. Drive and control means for educational devices such as card readers and the like. 3,665,163, 5-23-72, Cl. 235-61.11d.
 Mast, Milfred E.: See—
 Metevia, Virgil L.; Narlock, Raymond M.; and Mast, Milfred E., 3,677,877.
 Mast, Phillip W.; and Beaubien, Laurent A., to United States of America, Navy. Close packing of uniform size spheres. 3,703,012, 11-21-72, Cl. 9-8.000.
 Mast, Robert E., to Hewlett-Packard Company. Regulating converter circuit. 3,697,851, 10-10-72, Cl. 321-2.000.
 Mast, Rolf, to Armour-Dial, Inc. Composition and method of defoaming bubble baths. 3,705,102, 12-5-72, Cl. 252-89.000.
 Mast, Roy C., to Procter & Gamble Company. The. Enzyme-containing detergent compositions for neutral washing. 3,658,727, 4-25-72, Cl. 252-538.
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 Masten, Michael K.: See—
 Choate, William C.; and Masten, Michael K., 3,678,461.
 Choate, William C.; and Masten, Michael K., 3,678,470.
 Master Lock Company: See—
 Foote, Daniel J., 3,667,260.
 Master Lock Company, Inc., mesne: See—
 Foote, Daniel J.; and Soref, Samuel M., 3,635,057.
 Master Lock Company, mesne: See—
 Foote, Daniel J., 3,664,163.
 Master Specialties Company: See—
 Leslie, Warren A.; and Weinhardt, Rudolf, 3,660,713.
 Malekzadeh, Ali Asghar, 3,671,955.
- Weinhardt, Rudolf, 3,666,901.
 Mastercraft Furniture Corporation: See—
 Van Surksun, Edwin J., 3,697,132.
 Masterov, Vasily Fomich: See—
 Vishnitsky, Alexandr Lazarevich; Shapiro, Lev Mironovich; Kazantsev, Evgeny Andreevich; Shvartsman, Benjamin Markovich; Shilov, Georgy Petrovich; Nemilov, Evgeny Fedorovich; Baisupov, Izmail Abdulovich; Masterov, Vasily Fomich; and Rumyantsev, Alexandr Steanovich, 3,705,848.
 Masterpiece, Inc.: See—
 Dieffenbach, Percy, 3,665,577.
 Masters, George. Facial device and method of using the same. 3,672,363, 6-27-72, Cl. 128-76.00b.
 Masters, Harvey M.: See—
 Nugent, John L.; and Masters, Harvey M., 3,693,076.
 Masters, Hugh E.: See—
 Cornish, Alan H.; Helke, Robert C.; Le Donne, Alex N.; and Masters, Hugh E., 3,700,565.
 Masters, Joan Irene: See—
 Bishop, Nigel Douglas; and Masters, Joan Irene, 3,641,035.
 Masters, Leonard Kenneth Morgan: See—
 Hardy, Graham George; and Masters, Leonard Kenneth Morgan, 3,665,841.
 Masters, Robert W.; and Hanft, Herbert, to Westinghouse Electric Corporation. Hybride tunable cavity resonator. 3,657,671, 4-18-72, Cl. 333-82.
 Masterson, Earl E.: See—
 Bower, Robert G.; Eveland, Baisel L.; Markowitz, Ivan N.; and Masterson, Earl E., 3,693,967.
 Masterson, Frank H.: See—
 Cachon, Rene P.; Grundon, Forrest R.; Masterson, Frank H.; Miller, Joseph C.; and Wustrau, Fred E., 3,645,622.
 Mastic Corporation: See—
 Mattes, Lee H., 3,703,795.
 Mastner, Jiri: See—
 Jacek, Andre; Mastner, Jiri; and Von Willisen, Friedrich K., 3,707,329.
 Maston, James W.: See—
 Anhalt, John W.; and Maston, James W., 3,639,891.
 Anhalt, John W.; Maston, James W.; and Selvin, Gerald J., 3,656,091.
 Mastrangelo, Sebastian V. R.: See—
 Ganci, James B.; and Mastrangelo, Sebastian V. R., 3,647,651.
 Mastrianni, Vincenzo: See—
 Caroselli, Remus F.; Mastrianni, Vincenzo; and Boyes, David W., 3,632,380.
 Caroselli, Remus F.; Mastrianni, Vincenzo; and Boyes, David W., 3,649,333.
 Mastroianni, Emilio G.; and Goodman, Robert C., to GAF Corporation. Printer multi-belt tension control. 3,658,418, 4-25-72, Cl. 355-110.
 Mastromatteo, Richard; and Brett, Thomas J., Jr., to Uniroyal, Inc. Co-cure of blend of rubber of low unsaturation and highly unsaturated rubber using long chain hydrocarbon dithiocarbamate accelerators. 3,678,135, 7-18-72, Cl. 260-889.000.
 Mastropole, Alfred J.: See—
 Hague, Robert Z.; Laucks, Howard H.; and Mastropole, Alfred J., 3,678,801.
 Hawk, George W.; Geyer, Lewis H.; Mastropole, Alfred J.; and Garnjost, Kenneth D., 3,646,762.
 Mastursi, Michele; Lembo, Sabino; and Viterbo, Rene, to Richardson-Merrell S.p.A. 5H dibenzo (a,d) cyclohepten-10-yl-piperazines. 3,661,909, 5-9-72, Cl. 260-268.
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 Masubuchi, Yoritomo: See—
 Maeda, Yo; Suzuki, Satoshi; Nakamura, Yoshiharu; Masubuchi, Yoritomo; Ueyama, Tamotsu; Fukutomi, Naoki; and Takahashi, Hiroshi, 3,646,670.
 Masubuchi, Yoshinori: See—
 Mitsukawa, Konosuke; Hattori, Hiroshi; Hikoda, Toyohiko; and Masubuchi, Yoshinori, 3,669,792.
 Masucci, Alan A. Spectacles with adjustable lenses. 3,698,801, 10-17-72, Cl. 351-55.000.
 Masucci, Eugene Daniel: See—
 Busick, Richard Cobbold; and Masucci, Eugene Daniel, 3,655,921.
 Masuda, Hiromasa; Nishigaki, Eiiti; and Maeda, Tomosuke, to Nippon Yushi Kabushiki Kaisha. Process for preparing resinous compositions. 3,671,496, 6-20-72, Cl. 260-77.5cr.
 Masuda, Katsutada: See—
 Imashiro, Yoshio; and Masuda, Katsutada, 3,642,793.
 Masuda, Kohei: See—
 Hagino, Seiji; Masuda, Kohei; Hasegawa, Kazumasa; and Hosono, Yasuzi, 3,655,486.
 Sakata, Rikita; Masuda, Kohei; and Takashi, Masanori, 3,671,383.
 Masuda, Mitsuo; and Ota, Nobuyoshi, to Nippondenso Kabushiki Kaisha. Temperature switch. 3,649,936, 3-14-72, Cl. 335-208.

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- Masuda, Nobuchika: See—
Furuichi, Masayoshi; Miyakawa, Seiichi; and Masuda, Nobuchika, 3,656,021.
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Tanaka, Toshihiko; and Masuda, Shigeo, 3,702,813.
- Masuda, Shiro; Ohkubo, Takashi; and Furukawa, Yu, to Denki Kagaku Kogyo Kabushiki Kaisha. Process for the preparation of aqueous emulsions of water-resistance vinyl acetate-ethylene copolymers. 3,703,492, 11-21-72, Cl. 260-27.0ev.
- Masuda, Takao: See—
Ohkubo, Kinji; Noguchi, Junpei; and Masuda, Takao, 3,635,719.
Ohkubo, Kinji; Masuda, Takao; and Noguchi, Junpei, 3,645,739.
Ohkubo, Kinji; Noguchi, Junpei; and Masuda, Takao, 3,699,114.
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- Masuda, Toru: See—
Fujimura, Hajime; Hori, Mikio; Masuda, Toru; Sawa, Yoichi; and Kato, Takeshi, 3,686,167.
Meguro, Kanji; Kuwada, Yutaka; Nagawa, Yuji; and Masuda, Toru, 3,652,754.
Meguro, Kanji; Kuwada, Yutaka; and Masuda, Toru, 3,687,941.
Meguro, Kanji; Tawada, Hiroyuki; Kuwada, Yutaka; and Masuda, Toru, 3,692,772.
- Masuda, Toru; Usui, Yoshiro; Hara, Yukio; and Komatsu, Toshikatsu, to Takeda Chemical Industries, Ltd. Process for the production of benzodiazepine derivatives. 3,644,339, 2-22-72, Cl. 260-239.3.
- Masuda, Tuiyoshi: See—
Shirota, Hiroharu; Yonemoto, Kunio; Masuda, Tuiyoshi; Ito, Takayuki; and Nagaki, Ryuzo, 3,652,747.
- Masuda, Yasushi: See—
Hani, Hiroshi; and Masuda, Yasushi, 3,644,224.
- Masuda, Yoshio; and Murakami, Toshikazu, said Murakami assor. to Fukada, Hideaki, mesne. Method and apparatus for mining manganese nodules from the deep sea-bottom. 3,672,079, 6-27-72, Cl. 37-69.000.
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- Masuko, Fujio: See—
Oshima, Teruo; Wada, Takeshi; Nagase, Tsuneyuki; Masuko, Fujio; Hirooka, Masaaki; and Taniguchi, Isoji, 3,671,506.
- Masuko, Tatsu: See—
Miyadara, Yasuo; Masuko, Tatsu; Muroi, Tadashi; Okada, Shinichi; and Noguchi, Hiroshi, 3,639,342.
- Masumura, Masao: See—
Tanaka, Tetsuo; Masumura, Masao; Toguchi, Akihiro; and Yamaguchi, Mario, 3,671,507.
- Masunaga, Kunihiko; and Shinohara, Hiroshi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Method of forming a film by electrolytic polymerization. 3,686,079, 8-22-72, Cl. 204-14.00n.
- Masuoka, Sadao: See—
Morita, Minoru; Shiraki, Takashi; and Masuoka, Sadao, 3,668,775.
Shiraki, Takashi; Masuoka, Sadao; and Morita, Minoru, 3,639,700.
- Masurat, Thomas: See—
Vinson, Leonard J.; and Masurat, Thomas, 3,655,416.
Vinson, Leonard J.; and Masurat, Thomas, 3,660,566.
- Masuya, Yoshikazu: See—
Makino, Yoshimi; Higuchi, Shigetaka; Kamiya, Iwao; and Masuya, Yoshikazu, 3,654,163.
- Makino, Yoshimi; Higuchi, Shigetaka; Kamiya, Iwao; and Masuya, Yoshikazu, 3,694,261.
- Masuyama, Takeshi: See—
Hamamoto, Kazuo; Matsuoka, Michio; and Masuyama, Takeshi, 3,670,221.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,632,528.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,632,529.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,634,337.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,682,841.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,689,863.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,699,058.
- Masuyama, Takeshi; Matsuura, Mikio; Iida, Yoshio; and Amemiya, Toshioki, to Matsushita Electric Industrial Co., Ltd. Voltage variable resistor. 3,642,664, 2-15-72, Cl. 252-519.
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- Masuzawa, Isao: See—
Hirokawa, Yoichi; and Masuzawa, Isao, 3,696,282.
Kawada, Shin-ichi; Yoichi, Hirokawa; and Masuzawa, Isao, 3,656,043.
- Mata, Justo M.: See—
Hendlin, David; Stapley, Edward O.; Del Val, Sagrario Mochales; and Mata, Justo M., 3,639,590.
Stapley, Edward O.; Mata, Justo M.; Wolf, Frank J.; and Miller, Thomas W., 3,692,633.
- Matas, Carlos, to Etablissements Pain-Bourgeois. Reciprocal drive mechanism. 3,696,682, 10-10-72, Cl. 74-57.000.
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- Matay, Istvan M., to TRW Inc. Ultrasonic distance amplitude correction unit. 3,690,153, 9-12-72, Cl. 73-67.80r.
- Matburn (Holdings) Limited: See—
Blackett, John Harold, 3,662,757.
- Matcheret, Georges: See—
Manevy, Georges; and Matcheret, Georges, 3,644,104.
- Matchmaker Industries Inc.: See—
Friedland, Kenneth, 3,683,941.
- Mateer, G. Diehl, Co.: See—
Lewis, Roy D., 3,707,173.
Lewis, Roy D., 3,707,174.
- Mateja, Edward J.: See—
Lulay, John R.; Marusz, Bruno J.; and Mateja, Edward J., 3,705,721.
- Mateja, Eugene V.: See—
Burm, George C.; Henriksen, Elmer C.; and Mateja, Eugene V., 3,665,446.
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- Matejcic, Leonard S.: See—
Hansson, Margaret S.; and Matejcic, Leonard S., 3,650,563.
- Matejec, Reinhard; Meyer, Rudolf; and Himmelmann, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Ferrous complex of N-containing heterocyclic compound as silver latent image stabilizer. 3,639,128, 2-1-72, Cl. 96-109.
- Matejec, Reinhard: See—
Weyde, Edith; Ranz, Erwin; and Matejec, Reinhard, 3,684,511.
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- Matel, Bernard: See—
Lamendin, Arthur; Matel, Bernard; and Dhenin, Jean, 3,654,271.
- Material Control, Inc.: See—
McWilliams, Michael R., 3,656,610.
- Materials and Methods Limited: See—
Dunks, Clifford M.; and McCaulay, James L., 3,703,922.
- Materials Technology Corporation: See—
McClure, James H.; and McCrary, James W., 3,683,965.
McClure, James H.; and McCrary, James W., 3,686,732.
- Stroup, Ralph F.; Clingman, William H., Jr.; and Post, Robert C., 3,684,585.
- Materiaux S.A.: See—
Mayor, Jean, 3,671,987.
- Materiel Special d'Enterprises: See—
Carrel-Billiard, Pierre A. M., 3,666,229.
- Materre, Christine: See—
Spangler, Ross; and Materre, Christine, 3,654,938.
- Matvosian, Elena Pavlovna: See—
Rutes, Viktor Savelievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballad, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, Anatoly Ivanovich; Klimashin, Petr Sergeevich; Matvosian, Elena Pavlovna; Nosenchenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.
- Math, Bauerle GmbH: See—
Muller, Rudolf; Schinke, Heinz Joachim; and Raible, Hermann, 3,649,003.
- Math, Irwin: See—
Price, Howard; Wallick, Seymour; and Math, Irwin, 3,638,561.
- Mathauser, William R. Signalling device for indicating improper position of a skier. 3,644,919, 2-22-72, Cl. 340-279.
- Mathe, Istvan, to Bunker-Ramo Corporation, The. Positive locking snap-fastener. 3,650,173, 3-21-72, Cl. 85-81.
- Mathe, Tibor: See—
Csuros, Zoltan; Petro, Jozsef; Mathe, Tibor; and Tungler, Antal, 3,654,111.
Csuros, Zoltan; Petro, Jozsef; Tungler, Antal; Mathe, Tibor; and Bekassy, Sandor, 3,691,103.
- Mathema Corporation: See—
Eglin, Hans, 3,638,321.
- Mather & Platt Limited: See—
Woof, William; Barlow, Colin; Gray, Arthur; and Wigram, Richard, 3,643,787.
- Mather, Adaline Nicoles: See—
Ginger, Leonard George; and Mather, Adaline Nicoles, 3,639,213.
- Mather, John: See—
Jones, Edward Barry; and Mather, John, 3,646,108.
- Mather, John C., to Trane Company, The. Sectionalized self-contained air conditioning unit. 3,665,727, 5-30-72, Cl. 62-262.
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- Mathers Controls, Inc.: See—
Mathers, Harold M., 3,669,234.
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- Mathers, James E.: See—
Ferri, John L.; and Mathers, James E., 3,635,658.
Ferri, John L.; and Mathers, James E., 3,639,932.
- Mathers, James E.; and Mikus, Felix F., to Sylvania Electric Products, Inc. Process for producing phosphors. 3,637,517, 1-25-72, Cl. 252-301.4.
- Mathers, James E.; and Toma, Sam Z., to Sylvania Electric Products, Inc. Phosphor compositions and process for upgrading yttrium orthovanadate phosphors. 3,649,555, 3-14-72, Cl. 252-301.6.
- Mathers, James E.; Mikus, Felix F.; and Yale, Ramon L., to Sylvania Electric Products, Inc. Production of ammonium metavanadate. 3,653,816, 4-4-72, Cl. 23-19.
- Mathers, Ronald Alexander. Chessmen. 3,677,550, 7-18-72, Cl. 273-137.00r.
- Mathes, Charles E.: See—
Bossmann, Clifford W.; Kaufmann, Harland A.; and Mathes, Charles E., 3,698,069.
- Matheson, Wilfrid G.: See—
Anderson, Warren A.; Matheson, Wilfrid G.; and Strock, Lester W., 3,649,224.
Loughridge, Frederick A.; Matheson, Wilfrid G.; and Passmore, Edmund M., 3,676,730.
- Mathevosian, Yervand: See—
Jordan, John F.; Brean, John W.; and Mathevosian, Yervand, 3,680,951.
- Mathevosian, Yervand, to Baldwin, D. H., Company. Analog to digital encoder. 3,670,325, 6-13-72, Cl. 340-347.
- Mathew, Leonard Stanley. Load handling vehicle. 3,638,810, 2-1-72, Cl. 214-75.
- Mathew Moody Ltd.: See—
Abram, Guy R.; and Offerman, Emil, 3,653,328.
- Mathews, Bernard C. Blade for flail-type mowing machines and the like. 3,633,349, 1-11-72, Cl. 56-294.
- Mathews, Bernard C. Flail type rotor assembly and blade for same. 3,693,335, 9-26-72, Cl. 56-294.000.
- Mathews, Carl Fraser: See—
Rose, John Brewster; Mathews, Carl Fraser; Nield, Eric; and Vincent, Peter Incedon, 3,634,547.
- Mathews, James Kenneth. Extension handle for bath faucet valve operators. 3,656,793, 4-18-72, Cl. 294-19.
- Mathews, James R.: See—
Beadle, William E.; Benson, Kenneth E.; Mathews, James R.; and Von Ohlsen, Louis H., Jr., 3,669,768.
- Mathews, John P., to Mallory Battery Company of Canada Limited. Emergency power pack. 3,657,021, 4-18-72, Cl. 136-173.
- Mathews, Joseph W. Moving coil direct current reciprocating motor. 3,671,829, 6-20-72, Cl. 318-128.000.
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- Mathews, Leland E.: See—
Lacer, Wilford G., Jr.; and Mathews, Leland E., 3,704,505.
- Mathews, Lyle H. Conduit with spacer. 3,643,005, 2-15-72, Cl. 174-37.
- Mathews, Marion J., III; and Campbell, Charles R., to Monsanto Company. Process for the preparation of benzene dicarboxylic acids. 3,636,096, 1-18-72, Cl. 260-524.
- Mathews, Mitzi R., to Bluegate Candle Company. Apparatus for decorating candles. 3,649,151, 3-14-72, Cl. 425-385.
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- Mathews, Warren W.: See—
Heming, Elizabeth C.; Mathews, Warren W.; and Wilson, William J., 3,645,714.
- Mathewson Corporation: See—
Kalning, Frederick E.; and Redman, Howard E., 3,641,954.
- Mathewson, James A.: See—
Brooks, Kenneth A.; Johnson, Lawrence L.; and Mathewson, James A., 3,693,775.
- Mathewson, Wilfred F., Jr.; and Ryon, David M., to General Electric Company. Blood component exchange device. 3,684,097, 8-15-72, Cl. 210-321.000.
- Mathewson, William G.: See—
Kisker, Laurence J.; and Mathewson, William G., 3,697,657.
- Mathias, Charles D.: See—
Nielsen, Waldemar R.; and Mathias, Charles D., 3,672,017.
- Mathias, Richard A.; and Watson, Edgar J., to Cincinnati Milacron Inc. Method and apparatus for automatically balancing deflection sensors on rotating equipment. 3,681,978, 8-8-72, Cl. 73-71.400.
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Lindblade, Paul V.; and Mathieu, Paul G., 3,638,177.
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- Mathis, John P.: See—
Cramer, Lawrence P.; Irons, Harold B.; Kohn, Harold; and Mathis, John P., 3,658,629.
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Dix, James S.; Mathis, Ronald D.; and Netherton, Leslie T., 3,637,588.
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- Thorwest, Harald; Lehmann, Helmut; Lange, Helmut; Schlosssarek, Udo; Siefen, Jakob; and Mathner, Hermann, 3,688,567.
- Mathus, Gregory: *See—*
- Lowry, Alan B.; Mathus, Gregory; and Staciokas, Leon, 3,677,497.
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- Matis, Imant Gustovich: *See—*
- Bergmanis, Karlis Alfredovich; Klotinsh, Erik Ernestovich; and Matis, Imant Gustovich, 3,671,857.
- Bergmanis, Karlis Alfredovich; Klotinsh, Erik Ernestovich; and Matis, Imant Gustovich, 3,694,742.
- Matisa Materiel Industriel S.A.: *See—*
- Sauterel, Gerard, 3,653,327.
- Sauterel, Gerard; and Fornerod, Andre, 3,664,265.
- Matiskella, John Daniel: *See—*
- Montzka, Thomas Alfred; and Matiskella, John Daniel, 3,654,281.
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- Schleich, Nicholas P., 3,640,480.
- Schleich, Nicholas P., 3,653,242.
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- Goodrich, George W.; Colson, William B.; and Matle, Calvin C., 3,700,947.
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- McCarthy, Robert P.; and Matlock, Charles W., 3,674,620.
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- Osaka, Yonosuke; Watanabe, Kinya; Tamura, Kohji; Sonoyama, Heikitsu; Matsuda, Satoru; Haruhana, Masao; and Matoba, Hideo, 3,689,370.
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- Howard, Donald Kearey; Thomas, Brian Martin; Popplewell, Alan Francis; and Matossi, Dario, 3,691,033.
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- Cooper, John, 3,691,857.
- Matricon, Marcel, to Thomson-CSF. Method of manufacturing hollow superconducting bodies. 3,641,665, 2-15-72, Cl. 29-599.
- Matrographics, Inc., *mesne: See—*
- Strumor, Mathew A.; Rachwal, Ervin J.; Campbell, Douglas B.; and Marculewicz, Robert W., 3,639,059.
- Mats, Veniamin Mikhailovich: *See—*
- Dubinsky, Vladimir Alexandrovich; and Mats, Veniamin Mikhailovich, 3,633,769.
- Matschat, Karl: *See—*
- Oppenlaender, Knut; Liebold, Gert; Mohr, Rudolf; Buettner, Egon; and Matschat, Karl, 3,684,735.
- Matsjura, Norio. Tube fastener. 3,694,869, 10-3-72, Cl. 24-278.000.
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- Deckert, Fred W.; and Matson, Gale W., 3,642,937.
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- Matsu, Noboru: *See—*
- Hirschfeld, Tomas; and Matsu, Noboru, 3,697,226.
- Matsuba, Hironori: *See—*
- Hasebe, Morikuni; Fukuda, Teruo; Furusawa, Hisatomo; and Matsuba, Hironori, 3,649,542.
- Matsubara, Hironaga: *See—*
- Miyauchi, Hirokazu; and Matsubara, Hironaga, 3,684,821.
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- Imai, Takeshi; Matsubara, Tamotsu; and Takenaka, Osamu, 3,697,913.
- Matsubara, Tetsujin: *See—*
- Sugano, Izuru; Akashi, Tsuneo; Matsubara, Tetsujin; Kenmoku, Yoshihiro; and Okuda, Taneaki, 3,652,416.
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- Yamagata, Seiichi; Sakai, Masaaki; Matsubara, Toshimoto; and Yamashita, Shigeji, 3,645,080.
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- Matsubara, Yukio: *See—*
- Yamamura, Katsumi; Miyasaka, Tsugumitsu; Hayashi, Shinichi; Yamamoto, Masao; and Matsubara, Yukio, 3,677,909.
- Matsubayashi, Kanji: *See—*
- Kawaguchi, Takuo; and Matsubayashi, Kanji, 3,635,871.
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- Furuya, Akio; Hayashi, Masaaki; Nagami, Kouichi; Uchida, Masakatsu; Nishino, Sakae; Asada, Toshikatsu; Nagao, Yasuo; Matsuda, Hiroyoshi; and Tsuchiya, Harufumi, 3,689,446.
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- Kurokawa, Kazuo; and Matsuda, Ikuo, 3,652,843.
- Matsuda, Kamematsu: *See—*
- Asada, Yutaka; Obinata, Tatsuchi; and Matsuda, Kamematsu, 3,650,414.
- Matsuda, Ken: *See—*
- Brownlee, Thomas Harland; and Matsuda, Ken, 3,683,336.
- Fine, Leonard Wolfe; Matsuda, Ken; and Photis, James Mitchell, 3,699,164.
- Matsuda, Motonobu: *See—*

- Ueda, Hiroshi; and Matsuda, Motonobu, 3,654,843.
- Ueda, Hiroshi; Yata, Kintaro; and Matsuda, Motonobu, 3,678,822.
- Matsuda, Motonobu, to Minolta Camera Kabushiki Kaisha. Automatic control devices for a camera. 3,667,357, 6-6-72, Cl. 95-10.0ct.
- Matsuda, Mutsuhide: *See—*
- Uchiyama, Takashi; Ito, Tadashi; and Matsuda, Mutsuhide, 3,675,547.
- Uchiyama, Takashi; Ito, Tadashi; and Matsuda, Mutsuhide, 3,688,663.
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- Murata, Norio; Takeda, Toshihiko; Sakai, Hirochika; and Matsuda, Nobuyuki, 3,680,653.
- Matsuda, Ryoichi: *See—*
- Yamamoto, Kazuyuki; and Matsuda, Ryoichi, 3,668,312.
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- Nakamura, Tutomu; Matsuda, Saburo; and Ito, Yoichi, 3,655,988.
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- Osaka, Yonosuke; Watanabe, Kinya; Tamura, Kohji; Sonoyama, Heikitsu; Matsuda, Satoru; Haruhana, Masao; and Matoba, Hideo, 3,689,370.
- Matsuda, Shinobu: *See—*
- Yoneda, Masahiko; Yaei, Hideaki; Kida, Makoto; Matsuda, Shinobu; and Shirafuji, Hideo, 3,660,564.
- Matsuda, Shogo; Shimodoi, Yutaka; Yamada, Hiraku; and Takao, Kiyoshi, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for the treatment of polyester fibrous materials. 3,644,081, 2-22-72, Cl. 8-115.6.
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- Matsuda, Tamio. Sanitary garment. 3,687,141, 8-29-72, Cl. 128-288.000.
- Matsuda, Teruo: *See—*
- Takagi, Kazumi; and Matsuda, Teruo, 3,637,887.
- Takagi, Kazumi; Matsuda, Teruo; and Murakami, Masahiro, 3,644,402.
- Matsue, Shigeki, to Nippon Electric Company Limited. Flip-flop circuit. 3,644,758, 2-22-72, Cl. 307-291.
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- Kato, Yasuharu; and Matsueda, Hirokazu, 3,682,694.
- Matsugu, Tomoyuki; Notomi, Ryota; and Kanoh, Teruchika, to Kohjin Company, Limited. Apparatus for heat-setting biaxially stretched films of thermoplastic materials. 3,678,546, 7-25-72, Cl. 26-63.000.
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- Nakaoka, Kenji; Kato, Tadao; and Matsuhisa, Seikichi, 3,636,095.
- Matsuhita, Takeshi; and Yagi, Hajime, to Sony Corporation. Semiconductor circuits. 3,686,684, 8-22-72, Cl. 317-235.00r.
- Matsui, Hideki: *See—*
- Nomura, Kazuhumi; Nakazato, Kunio; and Matsui, Hideki, 3,647,374.
- Matsui, Hideo: *See—*
- Asahi, Matahiko; Murakami, Hisamichi; Hasegawa, Yukio; Matsui, Hideo; and Takayanagi, Eifu, 3,679,348.
- Matsui, Isamu; Nagasawa, Isao; Horiuchi, Tatsuo; Uchida, Hiroshi; and Uehara, Masao, to Daiwa Kaisha Boseki Kabushiki and Murata Kaisha Kikai Kabushiki. Automatic spool feeding method and apparatus for automatic winding machine. 3,687,382, 8-29-72, Cl. 24235.50r.
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- Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kurumada, Tomoyuki; Watanabe, Ichiro; and Ohta, Noriyuki, 3,640,928.
- Murayama, Keisuke; Toda, Toshimasa; Yamao, Eiko; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; and Watanabe, Ichiro, 3,663,558.
- Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; and Watanabe, Ichiro, 3,692,778.
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- Matsuzawa, Katsuto; and Matsui, Kazuo, 3,639,448.
- Matsui, Kenichi: *See—*
- Fukuma, Noboru; Matsui, Kenichi; and Shimizu, Hiroshi, 3,663,675.
- Fukuma, Noboru; Kobayashi, Hidehiko; Matsui, Kenichi; Sakashita, Masahira; and Henmi, Hiroshi, 3,677,880.
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- Hikida, Ryotaro; Awano, Taikichi; Itoh, Junichiro; Danno, Atsushi; Matsui, Masao; Inaba, Mititi; and Isogai, Mitsuaki, 3,683,659.
- Hosokawa, Kenjiro; Matsui, Masao; Endo, Norio; Ichikawa, Michio; and Tokura, Susumu, 3,668,001.
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- Kawada Tsukasa; Suzuki, Susumu; and Matsui, Nobuya, 3,686,240.
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- Shimauchi, Shiro; Minemura, Norihiro; Matsui, Takeshi; Ito, Kenji; Shima, Takue; Kawase, Shoji; and Oshima, Masataka, 3,666,403.
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- Henmi, Zenzo; Sasaki, Tatsuji; Matsui, Yuji; Maegawa, Harumi; Sato, Yoshihiro; Gotoh, Tsuneyasu; and Komatsu, Masahiro, 3,686,042.
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- Hayashi, Takao; and Matsukawa, Hiroharu, 3,682,680.
Katayama, Shizuo; Matsukawa, Hiroharu; Yamato, Masaya; and Matsuyama, Junichi, 3,687,865.
Matsukawa, Hiroharu, to Fuji Photo Film Co., Ltd. Method of producing oily liquid-containing microcapsules. 3,660,304, 5-2-72, Cl. 252-316.
Matsukawa, Hiroshi: *See—*
Komatsu, Hideo; Yuguchi, Sadao; Tanimura, Masamitsu; and Matsukawa, Hiroshi, 3,705,130.
Matsukawa, Koshiro: *See—*
Hoshino, Yutaka; Iwaki, Yoshikazu; Matsukawa, Koshiro; Nakada, Akira; Sato, Fumio; and Uno, Kazuo, 3,687,913.
Matsuki, Keiji: *See—*
Mori, Ikuo; and Matsuki, Keiji, 3,661,446.
Matsukura, Yasuo; Wada, Toshio; and Ohta, Kuniichi, to Nippon Electric Company, Limited. Semiconductor logic device employing the Gunn effect element. 3,651,348, 3-21-72, Cl. 307-299.
Matsumae, Akihiro: *See—*
Hata, Toju; Matsumae, Akihiro; Abe, Kimihiko; Sano, Yoshimoto; Ohtani, Mariko; and Ohmura, Satoshi, 3,650,904.
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Matsumoto Chemical Industry Co., Ltd.: *See—*
Sugiyama, Iwakichi; and Tomozuka, Haruki, 3,642,510.
Matsumoto, Fujio: *See—*
Tanabe, Takashi; Aoki, Hiroshi; Murakami, Hitoshi; and Matsumoto, Fujio, 3,683,060.
Matsumoto, Fumio: *See—*
Tanaka, Osamu; and Matsumoto, Fumio, 3,700,506.
Matsumoto, Fumio; Wada, Toshiya; Yamamoto, Takaaki; Tanaka, Osamu; Takashima, Kunihide; and Takata, Toshihiko, to Nippon Steel Corporation. Process for producing single oriented silicon steel plates low in the iron loss. 3,676,227, 7-11-72, Cl. 148-111.000.
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Yamagishi, Akio; Kondo, Hisashi; Matsumoto, Genya; and Kondo, Shigekatsu, 3,700,718.
Matsumoto, Hiroshi: *See—*
Sumoto, Misao; Komagata, Hideki; Matsumoto, Hiroshi; and Furusawa, Hironobu, 3,701,755.
Matsumoto, Hiroshi: *See—*
Nishizawa, Hirofumi; Kitaura, Shigeo; Sumoto, Misao; Komagata, Hideki; and Matsumoto, Hiroshi, 3,690,978.
Matsumoto, Hiroyuki: *See—*
Kuroki, Nobuhiko; Komatsu, Kiroku; Tamura, Shuji; and Matsumoto, Hiroyuki, 3,695,821.
Matsumoto, Hisayuki: *See—*
Kobayashi, Kazutsugu; Matsumoto, Hisayuki; and Igarashi, Yoshiaki, 3,662,238.
Kobayashi, Kazutsugu; Igarashi, Yoshiaki; and Matsumoto, Hisayuki, 3,683,248.
Matsumoto, Jiro; Takeuchi, Masatoshi; Abe, Arimichi; and Sengoku, Koji, to Tohoku Special Steel Works Limited. Cold-workable permanent magnet alloy. 3,673,010, 6-27-72, Cl. 148-31.570.
Matsumoto, Jun-ichi: *See—*
Minami, Shinsaku; Matsumoto, Jun-ichi; Shimizu, Masanao; and Takase, Yoshiyuki, 3,666,754.
Minami, Shinsaku; Matsumoto, Jun-ichi; Shimizu, Masanao; and Takase, Yoshiyuki, 3,701,773.
Matsumoto, Katsuyoshi: *See—*
Yamane, Mikiya; Saito, Akira; Matsumoto, Katsuyoshi; Kawasumi, Kenichi; Murayama, Kazuo; and Sugiyama, Hiroshi, 3,642,340.
Matsumoto, Kazuya; and Suzuki, Takashi, to Canon Kabushiki Kaisha. Optical inspecting method. 3,642,374, 2-15-72, Cl. 356-106.
Matsumoto, Kazuya, to Canon Kabushiki Kaisha. Holography with blocked unmodulated object-beam light. 3,682,526, 8-8-72, Cl. 350-3.500.
Matsumoto, Keiji: *See—*
Sato, Tomi; and Matsumoto, Keiji, 3,634,151.
Matsumoto, Masanori: *See—*
Miyagawa, Takashi; Matsuo, Shunsuke; and Matsumoto, Masanori, 3,665,166.
Matsumoto, Mikio; Terada, Kenji; and Matsunaga, Mitsuru, to Tsubakimoto Chain Mfg. Co., Ltd., The. Automatic carrying system. 3,646,613, 2-29-72, Cl. 104-149.
Matsumoto, Mikio; Terada, Kenji; and Matsunaga, Mitsuru, to Tsubakimoto Chain Mfg. Co., The. Shift register circuit. 3,660,643, 5-2-72, Cl. 235-92.
Matsumoto, Nobuki: *See—*
Ando, Sadanao; and Matsumoto, Nobuki, 3,643,566.
Matsumoto, Nobuo: *See—*
Eguchi, Fusatoshi; Okamoto, Sohei; Yamaha, Mashio; Matsumoto, Nobuo; and Yokoyama, Minoru, 3,703,963.
Matsumoto, Otohei: *See—*
Ikeda, Takuo; Matsumoto, Otohei; and Sugiyama, Hiroshi, 3,649,615.
Matsumoto, Seiichi: *See—*
Honjo, Satoru; Tamai, Yasuo; Sato, Masamichi; Matsumoto, Seiichi; and Takimoto, Masaaki, 3,689,260.
Matsumoto, Seiji: *See—*
Fukushima, Osamu; Sato, Masamichi; and Matsumoto, Seiji, 3,707,139.
Honjo, Satoru; Takimoto, Masaaki; Matsumoto, Seiji; and Kosuge, Kuniko, 3,705,032.
Sato, Masamichi; Tamai, Yasuo; Matsumoto, Seiji; and Honjo, Satoru, 3,642,515.
Sato, Masamichi; Matsumoto, Seiji; and Honjo, Satoru, 3,681,065.
Sato, Masamichi; Fukushima, Osamu; Miyazuka, Hajime; Takimoto, Masaaki; Matsumoto, Seiji; Tamai, Yasuo; and Honjo, Satoru, 3,685,907.
Sato, Masamichi; Matsumoto, Seiji; Honjo, Satoru; and Hayakawa, Yoshizide, 3,689,768.
Tamai, Yasuo; Matsumoto, Seiji; and Honjo, Satoru, 3,655,419.
Tamai, Yasuo; Sato, Masamichi; Matsumoto, Seiji; and Honjo, Satoru, 3,703,400.
Matsumoto, Seiji, to Fuji Photo Film Co., Ltd. Exposure frame for electrophotography. 3,632,202, 1-4-72, Cl. 355-3.
Matsumoto, Seiji, to Fuji Photo Film Co., Ltd. Coding of originals and sensitive paper in a multi-color electrophotographic process. 3,656,947, 4-18-72, Cl. 96-1.2.
Matsumoto, Seiji; Tamai, Yasuo; and Sto, Masamichi, to Xerox Corporation. Imaging system. 3,671,290, 6-20-72, Cl. 117-37.0le.
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Matsumoto, Seiji, to Xerox Corporation. Apparatus for exposing latent image margins in electrophotographic copying apparatus. 3,687,538, 8-29-72, Cl. 355-3.000.
Matsumoto Seiyaku Kogyo Kabushiki Kaisha: *See—*
Setsuda, Kisuke; and Sugiyama, Iwakichi, 3,692,752.
Matsumoto, Shigeru; and Gotoh, Toshiaki, to Nippon Oil Seal Industry Co., Ltd. Pressure control valve for brakes and the like. 3,677,605, 7-18-72, Cl. 303-6.00c.
Matsumoto, Shuichi: *See—*
Saegusa, Takeo; and Matsumoto, Shuichi, 3,636,132.
Matsumoto, Sieji: *See—*
Sato, Masamichi; and Matsumoto, Sieji, 3,687,661.
Matsumoto, Takeji: *See—*
Abe, Kaoru; Matsumoto, Takeji; and Itoki, Nobuo, 3,672,115.
Matsumoto, Teruo, to Epoch Company, Ltd. Educational device. 3,675,341, 7-11-72, Cl. 35-9.00b.
Matsumoto, Tetsuo. Material eluting method and apparatus. 3,684,705, 8-15-72, Cl. 210-31.00c.
Matsumoto, Tsuyoshi, to Mitsubishi Denki Kabushiki Kaisha. Engine starter having means for holding same in a cranking position. 3,656,355, 4-18-72, Cl. 74-7.
Matsumoto, Yoshio, to Nippon Piston Ring Co., Ltd. Spacer expander. 3,656,767, 4-18-72, Cl. 277-140.
Matsumoto, Yoshio; Shirai, Michiko; Saito, Hiroko; Kawashima, Takeshi; and Sakabe, Yuzuru, to Kitazato Gakuen. Purified blue colored inorganic macromolecular complex compounds. 3,694,149, 9-26-72, Cl. 23-84.000.
Matsumoto, Youichi: *See—*
Ueno, Yoshito; and Matsumoto, Youichi, 3,651,424.
Matsumoto, Zenji: *See—*
Shirai, Yoshihiro; Ichikawa, Hirohiko; Yoshida, Akira; Uchida, Naotake; Tsuji, Masaru; and Matsumoto, Zenji, 3,676,365.
Matsumura, Haruki: *See—*
Imai, Yoshio; Matsumura, Haruki; Yurugi, Shojiro; and Miyake, Akio, 3,697,530.
Matsumura, Hideki: *See—*
Kobayashi, Ryuichi; Iwasaki, Takao; Hirano, Junji; and Matsumura, Hideki, 3,657,366.
Matsumura, Hiroyoshi: *See—*
Kitano, Ichiro; Koizumi, Ken; Matsumura, Hiroyoshi; Ikeda, Koji; and Uchida, Teiji, 3,658,407.
Kitano, Ichiro; and Matsumura, Hiroyoshi, 3,666,347.
Kitano, Ichiro; and Matsumura, Hiroyoshi, 3,667,832.
Matsumura, Hiroyoshi; Yoshikawa, Shogo; and Tatsumi, Ryuji, to Nippon Selfoc Kabushiki Kaisha. Achromatic lens system. 3,637,295, 1-25-72, Cl. 350-230.
Matsumura, Hisashi: *See—*
Tachibana, Sachihiko; Nakai, Susumu; Makino, Yoichi; Matsumura, Hisashi; Tabuchi, Kimitaka; Hiraoka, Michio; Akoh, Shigeichi; and Orito, Hiroshi, 3,644,078.
Matsumura, Koji: *See—*
Seki, Kunio; and Matsumura, Koji, 3,643,159.

- Matsumura, Koji; and Seki, Kunio, to Hitachi, Ltd. Collector follower-type transistorized voltage regulator with thermister starting circuit. 3,643,152, 2-15-72, Cl. 323-22.
Matsumura, Mitsuma: *See—*
Cameron, William M.; Mikiya, Toshio; and Matsumura, Mitsuma, 3,680,643.
Matsumura, Sadao: *See—*
Kubo, Keishi; and Matsumura, Sadao, 3,642,483.
Matsumura, Shigeru: *See—*
Kawakita, Takao; Ikeda, Hirohiko; Matsumura, Shigeru; and Taniguchi, Kunichiko, 3,671,300.
Matsumura, Tamotsu: *See—*
Matsushima, Yasunobu; and Matsumura, Tamotsu, 3,632,452.
Matsumura, Toichi: *See—*
Hayashi, Yoshiki; Sasaki, Hiromi; and Matsumura, Toichi, 3,677,816.
Matsumura, Toshikazu: *See—*
Ohira, Fukuichi; Matsumura, Toshikazu; and Shiode, Chuji, 3,642,761.
Matsumura, Yoshihiro, to Nippon Air Brake Company, Ltd. Brake pressure control system. 3,671,083, 6-20-72, Cl. 303-21.0be.
Matsumura, Yutaka: *See—*
Muto, Iwao; Matsumura, Yutaka; Nishifujii, Katsuyuki; and Matsumura, Kenji, 3,670,562.
Matsunaga, Hirotsugu: *See—*
Ishizawa, Kazutomo; Kubota, Tetsujiro; Miki, Jiro; Matsunaga, Hirotsugu; and Ohtake, Sadao, 3,653,808.
Matsunaga, Kazu: *See—*
Awazu, Kenzo; Matsunaga, Kazu; Muto, Katsutoshi; Kai, Junjiro; and Oi, Kyoko, 3,673,103.
Matsunaga, Kenji; and Horiuchi, Michio, to Dai Nippon Insatsu Kabushiki Kaisha. Apparatus for stereographically photographing scene. 3,682,064, 8-8-72, Cl. 95-188.000.
Matsunaga, Mitsuru: *See—*
Matsumoto, Mikio; Terada, Kenji; and Matsunaga, Mitsuru, 3,646,613.
Matsumoto, Mikio; Terada, Kenji; and Matsunaga, Mitsuru, 3,660,643.
Matsunaga, Takao: *See—*
Yoshimura, Ippei; Fukue, Norihiko; Sakamoto, Hiroshi; Murafushi, Hisashi; Hiyama, Takami; and Matsunaga, Takao, 3,679,707.
Matsunaga, Toshio: *See—*
Kobayashi, Sakae; Hori, Hiroshi; and Matsunaga, Toshio, 3,695,527.
Taki, Toshio; and Matsunaga, Toshio, 3,695,528.
Matsunaga, Yonosuke: *See—*
Matsunaga, Yonosuke; Kato, Eiichi; and Tobisawa, Seiji (said Kato and said Tobisawa assor. to said), 3,635,279.
Matsunaga, Yonosuke; Kato, Eiichi; and Tobisawa, Seiji, said Kato and said Tobisawa assor. to said Matsunaga, Yonosuke. Method of casting an ingot in a thin-walled deformable steel mould. 3,635,279, 1-18-72, Cl. 164-49.
Matsuno, Yoshiaki: *See—*
Ohsumi, Yoshio; Matsunaga, Yoshiaki; Ishida, Hiroshi; Onoda, Takeshi; Onishi, Masaru; Kasugai, Hiroshi; and Namiki, Tadao, 3,636,034.
Matsuno, Akira; Sasame, Takao; Shimizu, Ikuzo; Kizu, Humio; and Kagawa, Hiroyuki, to Toyo Kogyo Co. Ltd. and Tokyo Shibaura Electric Co., Ltd. Method of preparing corrosion resistant metallic articles. 3,660,173, 5-2-72, Cl. 148-6.35.
Matsuno, Hiroshi: *See—*
Kinjo, Kikuo; Yamanouchi, Teruo; Kondo, Eiichi; Matsuno, Hiroshi; and Nishide, Katsuhiko, 3,702,764.
Kinjo, Kikuo; Yamanouchi, Teruo; Kondo, Eiichi; Matsuno, Hiroshi; and Nishide, Katsuhiko, 3,705,031.
Matsuno, Takashi: *See—*
Kono, Toyoo; Wada, Sakae; Shiba, Motoharu; Matsuno, Takashi; Yamamoto, Akihiro; Ogawa, Haruki; Okazaki, Hiroshi; Suzuki, Shigeo; and Noto, Takao, 3,632,746.
Matsuo Electric Company, Limited: *See—*
Matsuo, Masao; and Tomiwa, Hiroshi, 3,646,404.
Matsuo, Hideki: *See—*
Samejima, Hirotsuchi; Nagano, Yuji; Ota, Shigenori; Kanzaki, Yasushi; Matsuo, Hideki; and Kuroda, Keizo, 3,658,557.
Matsuo, Kiyoshi: *See—*
Fujii, Kenzo; Kanai, Kazumichi; Inoue, Shigeru; Matsuo, Kiyoshi; and Asakura, Masami, 3,683,057.
Matsuo, Masaharu. Sheet transfer device. 3,684,081, 8-15-72, Cl. 198-184.000.
Matsuo, Masaharu. Sheet feeding apparatus. 3,690,647, 9-12-72, Cl. 271-49.000.
Matsuo, Masao: *See—*
Usamoto, Teruyoshi; Hatada, Yasutaka; Furuichi, Itsuro; and Matsuo, Masao, 3,706,819.
Matsuo, Masao; and Tomiwa, Hiroshi, to Matsuo Electric Company, Limited. Solid state electrolytic capacitor and method of making same. 3,646,404, 2-29-72, Cl. 317-230.
Matsuo, Masatoshi: *See—*
Ohkawa, Masaaki; Matsuo, Masatoshi; Sakaguchi, Tadao; and Sato, Sozoi, 3,682,907.
Matsuo, Shunsuke: *See—*
Miyagawa, Takashi; Matsuo, Shunsuke; and Matsumoto, Masanori, 3,665,166.
Matsuo, Takehiko: *See—*
Ihara, Takashi; Matsuo, Takehiko; and Ohhara, Katsunobu, 3,697,302.
Komiya, Takao; Tosaka, Umi; Ihara, Takashi; Matsuo, Takehiko; and Ohara, Katsunobu, 3,687,659.
Matsuo, Takehiko; Tosaka, Umi; Hasegawa, Tetsuo; Ohhara, Katsunobu; and Ihara, Takashi. Developing method in electrophotography using toner particles coated with a non-volatile liquid. 3,652,315, 3-28-72, Cl. 117-17.5.
Matsuo, Takeshi: *See—*
Tsumumi, Tadashi; and Matsuo, Takeshi, 3,663,870.
Matsuo, Toshiaki; Chono, Koji; Go, Tadahiro; and Komai, Hirotaka, to Japanese Geon Company Ltd., The. Process for the preparation of alkylene oxide copolymers. 3,705,880, 12-12-72, Cl. 260-77.50r.
Matsuo, Yoshihiro: *See—*
Kurokawa, Eisuke; Matsuo, Yoshihiro; and Sasaki, Hiromu, 3,651,308.
Matsuo, Youichi: *See—*
Nagashima, Shinichi; Takechi, Hiroshi; Matsuo, Youichi; Kato, Hiroshi; Shimizu, Mineo; and Takahashi, Nobuyuki, 3,642,468.
Matsuoka, Chikara: *See—*
Baba, Takashi; and Matsuoka, Chikara, 3,647,249.
Matsuoka, James T.; and Cantarutti, Armindo, to Intercole Automation, Inc. Continuous mixer with screw discharge control. 3,700,374, 10-24-72, Cl. 425-208.000.
Matsuoka, Kimiaki: *See—*
Yasumura, Takashi; and Matsuoka, Kimiaki, 3,642,732.
Matsuoka, Michio: *See—*
Hamamoto, Kazuo; Matsuoka, Michio; and Masuyama, Takeshi, 3,670,221.
Masuyama, Takeshi; Matsuoka, Michio; and Iida, Yoshio, 3,658,725.
Masuyama, Takeshi; Matsuoka, Michio; and Nishi, Tsuyoshi, 3,663,458.
Masuyama, Takeshi; Matsuoka, Michio; and Nishi, Tsuyoshi, 3,687,871.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, to Matsushita Electric Industrial Co., Ltd. Lead-modified zinc oxide voltage variable resistor. 3,632,528, 1-4-72, Cl. 252-518.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, to Matsushita Electric Industrial Co., Ltd. Strontium-modified zinc oxide voltage variable resistor. 3,632,529, 1-4-72, Cl. 252-521.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, to Matsushita Electric Industrial Co., Ltd. Barium-modified zinc oxide voltage variable resistor. 3,634,337, 1-11-72, Cl. 252-521.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, to Matsushita Electric Industrial Co., Ltd. Voltage dependent resistors in a bulk type. 3,682,841, 8-8-72, Cl. 252-518.000.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, to Matsushita Electric Industrial Co., Ltd. Voltage dependent resistors in a surface barrier type. 3,689,863, 9-5-72, Cl. 338-20.000.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, to Matsushita Electric Industrial Co., Ltd. Uranium-modified zinc oxide voltage variable resistor. 3,699,058, 10-17-72, Cl. 252-518.000.
Matsuoka, Seishiro: *See—*
Mizutani, Yukio; and Matsuoka, Seishiro, 3,665,053.
Matsuoka, Tohru, to Nippon Electric Company. Microwave circuit utilizing a semiconductor impedance element. 3,634,786, 1-11-72, Cl. 333-31.
Matsuoka, Toshiro; Takeda, Keinosuke; Goto, Minoru; and Miyake, Akira, to Takeda Chemical Industries, Ltd. Feed containing enduracidin. 3,697,647, 10-10-72, Cl. 424-118.000.
Matsuoka, Toshiyuki: *See—*
Nagase, Minoru; and Matsuoka, Toshiyuki, 3,685,868.
Matsura, Eiichi, to Kabushiki Kaisha Daini Seikosha. Date correcting device for wrist watches. 3,706,197, 12-19-72, Cl. 58-58.000.
Matsura, Thomas T., to American Optical Corporation. Ophthalmoscopes. 3,698,099, 10-17-72, Cl. 351-6.000.
Matsushima, Akira, to Nippon Oil Seal Industry Co., Ltd. Sealing device. 3,682,488, 8-8-72, Cl. 277-37.000.
Matsushima, Hiroshi: *See—*
Arimura, Ichiro; Goto, Hiroshi; Matsushima, Hiroshi; and Nakao, Yoshikazu, 3,663,863.
Matsushima, Hiroshi; Arimura, Ichiro; Goto, Hiroshi; and Nakao, Yoshikazu, to Matsushita Electric Industrial Co., Ltd. Overcurrent proof constant-voltage. 3,643,151, 2-15-72, Cl. 323-9.
Matsushima, Katsuo, to Tokyo Shibaura Electric Co., Ltd. Sputtering apparatus. 3,644,191, 2-22-72, Cl. 204-298.
Matsushima, Kiyoshi; Miyamoto, Masao; and Fukazawa, Nobuo, to Farbenfabriken Bayer Aktiengesellschaft. Alkoxy-benzyl-dithiocarbamic acid esters. 3,658,871, 4-25-72, Cl. 260-455.

Matsushima, Sanae; Tezuka, Tadash; and Nakanowatari, Kameo, to Teikoku Hormone Mfg., Co., Ltd. Preparation of test sample for immunological assay of pregnancy of mares. 3,689,633, 9-5-72, Cl. 424-12.000.

Matsushima, Takao, to Nippon Electric Company, Limited. Supervisory apparatus for PCM regenerative repeaters. 3,649,777, 3-14-72, Cl. 179-175.31.

Matsushima, Takashi: *See—*
Hayakawa, Shohei; Matsushima, Takashi; Minato, Hitoshi; and Hirose, Katsumi, 3,660,568.

Matsushima, Takeshi: *See—*
Koyama, Shigeo; Ohtsuki, Motohiro; Shimatani, Kenji; Yasuda, Masao; Takei, Toru; Kawai, Yasutaka; and Matsushima, Takeshi, 3,644,780.

Matsushima, Yasunobu; and Matsumura, Tamotsu, to Hooker Chemical Corporation. Oxalate conversion coating method for stainless steel. 3,632,452, 1-4-72, Cl. 148-6.14.

Matsushita, Akira. Electrodeposition of coating layers on substrate structures. 3,647,661, 3-7-72, Cl. 204-181.

Matsushita Denko Kabushiki Kaisha: *See—*
Hara, Kazuhiko; and Imai, Hirozo, 3,648,028.
Kojima, Kiyoshi; and Abe, Toshiro, 3,665,340.
Yamada, Norio; Tanaka, Yoshimasa; Ono, Taisuke; and Ikejima, Yoritaka, 3,675,324.
Yamanouchi, Akira; Takenaka, Seisuke; and Mitori, Yukio, 3,697,350.
Yoshiya, Yoshio; Ishida, Yoshiyuki; and Ito, Masamichi, 3,639,885.

Matsushita Electric Industrial Co., Inc.: *See—*
Uno, Yoshihiro, 3,676,586.
Yoshimura, Susumi; Ito, Yoshimasa; Asakawa, Shirow; and Hasegawa, Katsue, 3,679,944.

Matsushita Electric Industrial Co., Ltd.: *See—*
Akasaki, Isamu, 3,649,383.
Arimura, Ichiro; Goto, Hiroshi; Matsushima, Hiroshi; and Nakao, Yoshikazu, 3,663,863.
Arimura, Ichiro, 3,668,309.
Arimura, Ichiro; and Kurashina, Kouzo, 3,696,219.
Deguchi, Masahiro; and Yano, Osahiko, 3,686,432.
Deguchi, Masahiro; and Hashirano, Masaru, 3,706,425.
Egawa, Susumu; Ashizaki, Shigeyu; Shimizu, Katsumi; and Miyai, Toshiko, 3,700,954.
Fukuda, Masataro; and Iijima, Takashi, 3,658,591.
Fukuda, Masataro; and Iwaki, Tsutomu, 3,666,565.
Fukunaga, Masao; and Amo, Kiyoyuki, 3,706,135.
Hamabe, Takeshi; and Suzuki, Takashi, 3,692,640.
Hamamoto, Kazuo; Matsuoka, Michio; and Masuyama, Takeshi, 3,670,221.
Hamano, Goro, 3,657,529.
Hamano, Goro, 3,674,997.
Hasegawa, Nobuo; and Kamo, Takahiro, 3,647,695.
Hataya, Yukio; Kozu, Isao; and Nakashima, Yasutaka, 3,637,952.
Hayashi, Yoshiki; Sasaki, Hiromi; and Matsumura, Toichi, 3,677,816.
Higashida, Yutaka; and Imanishi, Kaoru, 3,703,612.
Hirashima, Masaki, 3,634,141.
Hirashima, Masayoshi, 3,632,863.
Hirashima, Masayoshi, 3,692,929.
Hirata, Hiroshi; and Arai, Masanao, 3,669,862.
Honsho, Norihisa; Yasuda, Satoshi; and Wakahata, Tamotsu, 3,649,728.
Hori, Takeo, 3,650,308.
Hosokawa, Tomoyuki; Tsugeki, Toshii; and Kusunoki, Shigeru, 3,636,310.
Hosokawa, Tomoyuki; Wada, Chuzo; and Horii, Hiroshi, 3,638,091.
Hozumi, Shiro; and Kinugasa, Terukazu, 3,664,293.
Hozumi, Shiro; Hirai, Kenichi; Tanigawa, Yoshiyuki; Yoshida, Katuru; and Sugihara, Kanji, 3,673,666.
Iijima, Yasuo, 3,639,812.
Ikeda, Hisao, 3,646,611.
Ikegami, Seiji; and Ueda, Ichiro, 3,642,637.
Inami, Akira; Shida, Sankichi; and Haga, Mikio, 3,632,509.
Kanamaru, Toshiji; Morita, Katsumi; and Okada, Akio, 3,693,094.
Karube, Norio; and Morita, Yasuyuki, 3,658,406.
Kawai, Hiroshi; Sinohara, Osamu; and Haruyama, Tadayuki, 3,666,157.
Kawamata, Tadashi; Hirota, Eiichi; Mihara, Toshihiro; and Terada, Yukio, 3,640,871.
Kozuka, Eiji, 3,652,796.
Kitano, Motoi, 3,642,638.
Kobayashi, Fukashi; Ono, Mitsuaki; and Kuroe, Akio, 3,676,612.
Kobayashi, Kazutsugu; Matsumoto, Hisayuki; and Igarashi, Yoshiaki, 3,662,238.
Kobayashi, Kazutsugu; Igarashi, Yoshiaki; and Matsumoto, Hisayuki, 3,683,248.
Kobayashi, Makoto; and Miyahara, Haruo, 3,644,701.

Kohashi, Tadao, 3,634,703.
Kohashi, Tadao; and Tanaka, Kazunobu, 3,669,907.
Kohashi, Tadao, 3,675,075.
Konno, Tsuyoshi; Nakazato, Katsuo; and Ise, Satoshi, 3,670,182.
Korekawa, Takashi, 3,645,010.
Kosaka, Asahiro, 3,685,171.
Kosaka, Masahiro; and Fujita, Tadamasu, 3,641,507.
Kosaka, Masahiro, 3,683,515.
Koyama, Shigeo; Ohtsuki, Motohiro; Shimatani, Kenji; Yasuda, Masao; Takei, Toru; Kawai, Yasutaka; and Matsushima, Takeshi, 3,644,780.
Kozu, Isao; and Nakashima, Yasutaka, 3,686,851.
Kurokawa, Eisuke; Matsuo, Yoshihiro; and Sasaki, Hiromu, 3,651,308.
Maeda, Haruo; and Nishida, Jun, 3,646,350.
Maeda, Teizo; and Kudo, Koji, 3,632,429.
Masuyama, Takeshi; Matsuura, Mikio; Iida, Yoshio; and Amemiya, Toshioki, 3,642,664.
Masuyama, Takeshi; Matsuoka, Michio; and Iida, Yoshio, 3,658,725.
Masuyama, Takeshi; Matsuoka, Michio; and Nishi, Tsuyoshi, 3,663,458.
Masuyama, Takeshi; Amemiya, Toshioki; and Iida, Yoshio, 3,670,216.
Masuyama, Takeshi; Matsuoka, Michio; and Nishi, Tsuyoshi, 3,687,871.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,632,528.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,632,529.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,634,337.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,682,841.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,689,863.
Matsuoka, Michio; Masuyama, Takeshi; and Iida, Yoshio, 3,699,058.
Matsushima, Hiroshi; Arimura, Ichiro; Goto, Hiroshi; and Nakao, Yoshikazu, 3,643,151.
Mifune, Hideo; and Tani, Kenroku, 3,675,053.
Miyama, Hiroshi; and Tomii, Kaoru, 3,657,585.
Miyazaki, Eiichi, 3,653,063.
Miyoshi, Keisuke, 3,657,632.
Mohri, Etsuzo; Hayakawa, Toshio; and Nishikawa, Akira, 3,697,904.
Mori, Kazuhiro; Nakamura, Abio; Nakai, Miyoji; and Komisako, Tetuji, 3,670,548.
Morita, Minoru; Shiraki, Takashi; and Masuoka, Sadao, 3,668,775.
Morita, Yasuyuki; and Nishino, Tsutomu, 3,700,322.
Murata, Norio, 3,682,160.
Nada, Naohiro; and Yamashita, Tadaoki, 3,637,518.
Nagasawa, Masahiro, 3,659,157.
Nagasawa, Masahiro, 3,675,088.
Nagasawa, Masahiro; and Watanabe, Hiroyuki, 3,688,160.
Nakae, Nobuhiro; and Nakamura, Toru, 3,704,050.
Nakamura, Kinya, 3,632,113.
Nakamura, Shigeaki; Nakamura, Tadao; and Kohashi, Tadao, 3,703,594.
Nakamura, Shigeaki; Nakamura, Tadao; and Kohashi, Tadao, 3,704,265.
Nakamura, Tadao; Nakamura, Shigeaki; and Kohashi, Tadao, 3,648,052.
Nakamura, Tadao; Nakamura, Shigeaki; and Kohashi, Tadao, 3,666,450.
Nakamura, Takahiro; Yano, Osahiko; and Sakumoto, Hideki, 3,661,344.
Nakano, Minoru; Tsutsumi, Takashi; and Kadota, Tokuzo, 3,634,796.
Nakata, Koreaki; and Iida, Yoshio, 3,649,880.
Naomoto, Susumu; Kaneko, Tadataka; and Esaki, Hideya, 3,675,091.
Nishida, Jun; and Ohhara, Takahumi, 3,678,325.
Nishida, Masamitsu; and Ouchi, Hiromu, 3,640,866.
Nishida, Masamitsu; and Ouchi, Hiromu, 3,649,539.
Nishida, Masamitsu; and Ouchi, Hiromu, 3,649,540.
Nishida, Masamitsu; and Ouchi, Hiromu, 3,652,412.
Nishida, Masamitsu; and Ouchi, Hiromu, 3,669,887.
Nishimura, Shigeru, 3,666,882.
Nishiyama, Akira; Yoshino, Hirokazu; Yoshida, Tomio; and Yamaguchi, Tetsuo, 3,638,196.
Nishiyama, Akira; Fukui, Tooru; Takahashi, Satoshi; Takashima, Yuji; Nakano, Masaaki; Izura, Yoshiteru; and Tanaka, Masaaki, 3,689,155.
Nomura, Fumio; Takamiya, Yutaka; Mizuno, Sakuhiko; Higashi, Kunio; and Shimamoto, Toshihiro, 3,703,698.
Notani, Masaaki; Ashibe, Makoto; Nishitani, Yasuo; and Mirara, Keiziro, 3,636,253.
Oda, Fujio; and Obata, Shuichi, 3,673,354.
Oda, Fujio; and Obata, Shuichi, 3,691,316.

Ogata, Nobutaka; Kumamoto, Riyouzi; and Asada, Shuzi, 3,703,043.
Oka, Shunzo, 3,639,880.
Oka, Shunzo; and Miyashita, Akitoshi, 3,699,493.
Okamoto, Kenya; and Satoda, Hajime, 3,640,673.
Oku, Takeshi; Kazushige, Hirasawa; and Yoshimitsu, Matsu-moto, 3,692,973.
Osugi, Kinichiro; Suzuki, Yoshiaki; Mori, Tokio; and Inamoto, Toshiharu, 3,641,561.
Ota, Isao, 3,668,106.
Ota, Isao, 3,684,683.
Ota, Isao, 3,689,399.
Ota, Isao; and Otsuka, Tetsuro, 3,689,400.
Otsuka, Tetsuro; Ota, Isao; and Ogo, Shinichi, 3,639,246.
Ouchi, Hiromu; and Nishida, Masamitsu, 3,652,413.
Sakamoto, Toshikazu; and Adachi, Michio, 3,687,495.
Sakamoto, Yoichi; and Ichinohe, Eisuke, 3,652,960.
Sakamoto, Yoichi; and Ichinohe, Eisuke, 3,654,557.
Sasabe, Kaoru; and Okino, Yoshihiro, 3,657,471.
Sasabe, Kaoru, 3,676,862.
Sasabe, Kaoru; and Oda, Fujio, 3,699,418.
Sasaki, Nobuyuki; Oka, Shunzo; and Yano, Tadashi, 3,633,146.
Sasaki, Nobuyuki; Oba, Shunzo; and Yano, Tadashi, 3,671,915.
Sasaki, Reiichi; and Nagaoka, Yoshitomi, 3,634,615.
Sasaki, Toshiharu; Miyano, Ryuzo; and Nakajima, Yasutaka, 3,639,052.
Sasaki, Toshiharu; Miyano, Ryuzo; and Onishi, Masaru, 3,697,173.
Sato, Hosi; Natsumeda, Katsuyuki; and Murakami, Kaichi, 3,638,556.
Sato, Kunio; Sugihara, Kanji; Wakabayashi, Takashi; and Ishida, Tomio, 3,676,925.
Sato, Tomi; and Matsumoto, Keiji, 3,634,151.
Sawairi, Hitoshi; Kurihara, Yoshio; Takahashi, Kazuhiko; Hayakawa, Yoshihiko; and Hataya, Yukio, 3,702,968.
Sekido, Satoshi; and Arita, Tomohiko, 3,679,945.
Shibano, Takashi, 3,671,847.
Shida, Sankichi; and Todoroki, Tsunehiko, 3,648,355.
Shiraki, Takashi; Masuoka, Sadao; and Morita, Minoru, 3,639,700.
Shiraki, Takashi; and Hino, Izumi, 3,666,147.
Sugaya, Hiroshi; and Nasu, Takuya, 3,674,942.
Sugaya, Hiroshi; and Kanai, Kenji, 3,696,216.
Sugaya, Hiroshi; Kobayashi, Fukashi; and Ono, Mitsuaki, 3,707,608.
Suzuki, Ryuji; and Yokozeki, Seiki, 3,643,055.
Suzuki, Takashi, 3,674,538.
Takano, Hirotugu, 3,639,707.
Takano, Hirotugu; and Inoue, Toshitsugu, 3,680,415.
Takeda, Yukio, 3,699,670.
Taki, Hiromitsu; Hayakawa, Shigeru; and Nagase, Kaneomi, 3,676,351.
Tanabe, Kenzo, 3,681,522.
Tanaka, Heiroku, 3,641,292.
Tanaka, Heiroku, 3,643,199.
Tanaka, Kazunobu; and Kohashi, Tadao, 3,649,553.
Tanaka, Takashi; and Yanaguchi, Yukihiro, 3,660,892.
Tanaka, Takashi; and Nomura, Yasuo, 3,672,044.
Tanaka, Yutaka; and Kobitsu, Koichi, 3,652,783.
Tanegashima, Kenichiro; Kobayashi, Makoto; and Kudo, Shinichiro, 3,679,864.
Taniguchi, Hiroshi; Nakamura, Takahiro; and Sakumoto, Hideki, 3,673,414.
Tatematsu, Kenzo; and Kaneko, Teruhisa, 3,646,423.
Tatematsu, Kenzo; Hosono, Hiroo; Katagiri, Toshio; Hayashi, Yoshiaki; and Ando, Hiroyuki, 3,700,818.
Tomimatsu, Yoshio, 3,670,975.
Toyooka, Tadao; Ueda, Hiromutsu; Nishida, Takeo; and Ono, Atsuo, 3,641,921.
Toyooka, Tadao; Ueda, Hiromutsu; Nishida, Takeo; and Ono, Atsuo, 3,694,623.
Tsukuda, Teruhiko; and Tsutsumi, Takashi, 3,662,307.
Tsutsumi, Takashi, 3,638,152.
Wakabayashi, Takashi; and Hozumi, Shiro, 3,685,026.
Wakabayashi, Takashi; and Hozumi, Shiro, 3,685,028.
Wakabayashi, Takashi; Hozumi, Shiro; and Sugihara, Kanji, 3,695,870.
Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, 3,647,552.
Watanabe, Nobuatsu; and Fukuda, Masataro, 3,700,502.
Yamaka, Biso; Karube, Norio; and Akiyama, Masakazu, 3,660,776.
Yamaka, Eiso, 3,707,695.
Yamamoto, Hiroshi, 3,661,567.
Yamamoto, Kazumasa; Moriga, Hiroshi; Shimotsuna, Wataru; and Shimizu, Toshio, 3,632,526.
Yamamoto, Kiyokazu; Kishimoto, Masaru; Ueno, Susumu; Fujimoto, Hiroshi; Hatamoto, Kazutaka; and Kubota, Tadashi, 3,641,653.
Yamamoto, Kozo, 3,701,204.
Yamamoto, Kozo; and Takamiya, Takehisa, 3,703,295.

Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Jun-ichi, 3,655,449.
Yamashita, Akio, 3,652,270.
Yamashita, Akio; and Yamada, Tadashi, 3,665,262.
Yamashita, Oshio; Yoshisa, Manabu; Hasegawa, Nobuo; and Kitamura, Saburo, 3,668,408.
Yamashita, Sadahiko, 3,678,280.
Yamashita, Sadahiko, 3,680,059.
Yamashita, Toshio; Ohtani, Tadao; Yoshida, Manabu; Kitamura, Saburo; and Murakami, Hideaki, 3,636,492.
Yano, Osahiko; Nakamura, Takahiro; and Masahiro, Yano, 3,662,098.
Yano, Osahiko; Nakamura, Takahiro; and Yabu, Toshiomi, 3,665,098.
Yano, Osahiko; Nakamura, Takahiro; and Deguchi, Masahiro, 3,666,883.
Yano, Osahiko; and Ono, Mitsuaki, 3,668,310.
Yoshida, Yuji; Asada, Noriyosi; and Funatsu, Takao, 3,667,870.
Yoshii, Tetsuji, 3,651,899.
Yoshii, Tetsuji, 3,660,810.
Yoshii, Tetsuji, 3,668,894.
Yoshii, Tetsuji, 3,691,791.
Yoshimura, Koichi, 3,633,143.
Yoshino, Hirokazu; and Yoshida, Tomio, 3,646,329.
Yoshino, Hirokazu; and Yoshida, Tomio, 3,660,767.
Yoshiyama, Masami; Sato, Teruo; and Takeda, Hitoshi, 3,674,928.
Yukami, Noboru; Otani, Hiroshi; and Kurokawa, Hideo, 3,665,264.
Yukami, Noboru, 3,699,405.
Yukisada, Toshio; Noma, Takao; Morisawa, Masanori; and Hashimoto, Osamu, 3,662,240.
Matsushita Electric Industrial Company, Limited: *See—*
Yamashita, Sadahiko, 3,643,099.
Matsushita Electric Works, Ltd.: *See—*
Ayano, Hiroyoshi; Kibino, Yasuaki; Sato, Hiroyoshi; Ohta, Yukihiro; and Fukuhara, Minoru, 3,683,303.
Doi, Kazuo; Murakami, Takeru; Kawamura, Hideo; Takaishi, Katsutoshi; and Nakano, Yoshinobu, 3,651,173.
Doi, Kazuo; Nakajima, Jun; Takahashi, Hisamitsu; and Tomokawa, Hideo, 3,669,699.
Itoyama, Hiroshi; and Abe, Hideki, 3,681,916.
Iwakura, Yoshio; Uno, Keikichi; Kajiyama, Shigeru; Kitada, Yoshihiro; Kusushita, Takao; and Iijima, Kunio, 3,632,536.
Kobayashi, Kazuo; Okuda, Yoshihiko; and Kawamoto, Sadao, 3,638,072.
Maruchi, Katsumi; Yataka, Jiro; Tatsumi, Yasukazu; Wakita, Masayasu; and Yamayoshi, Tadashi, 3,662,299.
Nagamoto, Mitsuki; and Sato, Yutaka, 3,684,986.
Sakai, Satoshi; Shirakawa, Kenzo; and Shimizu, Norio, 3,660,737.
Sato, Sanro, 3,636,945.
Sauer, Hans, 3,634,793.
Setone, Isami; and Yoshino, Akira, 3,689,855.
Usui, Yoshito; Shiojima, Kenji; and Hatakeyama, Toshikatsu, 3,671,891.
Wada, Yukio; and Abura, Yoshinori, 3,701,882.
Yamada, Kiyoshi, 3,651,437.
Yoshino, Akira, 3,688,234.
Matsushita Electronics Corporation: *See—*
Arita, Shigeru; Kamei, Ichizo; and Okumura, Tomisaburo, 3,658,610.
Hasegawa, Hidenobu; Kusuda, Zenji; Tanaka, Akira; and Noritani, Jinichiro, 3,633,082.
Kano, Gota; Yokozawa, Masami; Kawasaki, Tatsuo; Fujiwara, Shohei; and Hasegawa, Hiromasa, 3,634,931.
Kimura, Akihiro, 3,636,417.
Kimura, Akihiro, 3,642,528.
Mizuno, Hiroyuki; Nakashima, Shinichi; and Miyai, Yukio, 3,701,050.
Nakamura, Hiroto; Doi, Ken-Ichi; Sato, Akira; and Suzuki, Yushin, 3,660,708.
Nakamura, Hiroto; Sato, Akira; and Doi, Ken-Ichi, 3,671,794.
Nakamura, Hiroto, 3,702,950.
Naomoto, Susumu; Kaneko, Tadataka; and Esaki, Hideya, 3,675,091.
Shoji, Masami, 3,686,545.
Tagawa, Hazime, 3,641,383.
Takeshima, Masumi, 3,705,364.
Teramoto, Iwao; Iwasa, Hitoo; Miyai, Yukio; and Takeshima, Masumi, 3,675,161.
Wakai, Shuzo; and Nabae, Mitsuo, 3,657,577.
Wakai, Shuzo, 3,670,264.
Wakai, Shuzo; and Nabae, Mitsuo, 3,694,774.
Yokozawa, Masami; and Iwasa, Hitoo, 3,698,945.
Matsushita, Fukusaburo; Saji, Yasuo; Saito, Kazuhisa; Tanaka, Kozo; and Yoshinari, Osamu, to Toho Beslon Co., Ltd. Method of using a zinc chloride aqueous solution through circulation and of purifying thereof. 3,702,880, 11-14-72, Cl. 264-38.000.

- Matsushita, Hidekatsu; and Ouba, Kenichi, to Kuraray Co., Ltd. Apparatus for crumpling sheet-like materials. 3,695,801, 10-3-72, Cl. 425-193.000.
- Matsushita, Kazuo; Koizumi, Ken; Togo, Hidetoshi; and Kimura, Hajime, to Nippon Selfoc Kabushiki Kaisha. Cathode ray tube faceplate formed of graded index laminated plates. 3,657,586, 4-18-72, Cl. 313-92.01f.
- Matsushita, Masanari, to Nippon Sheet Glass Co., Ltd. Process and apparatus for production of glass ribbon on molten metal bath. 3,684,471, 8-15-72, Cl. 65-91.000.
- Matsushita Seiko Co., Ltd.: See—
- Hasegawa, Hidenobu; Kusuda, Zenji; Tanaka, Akira; and Noritani, Jinichiro, 3,633,082.
- Matsushita, Shigenori; and Ishikawa, Tatsuo, to Tokyo Shibaura Electric Co., Ltd. Fixed memory apparatus. 3,638,194, 1-25-72, Cl. 340-172.5.
- Matsushita, Shigenori; Sato, Fumitaka; Chujo, Hisao; and Horiike, Minoru, to Tokyo Shibaura Electric Co., Ltd. Control devices for display apparatus. 3,683,360, 8-8-72, Cl. 340-324.00a.
- Matsushita, Shigenori; Sato, Fumitaka; and Chujo, Hisao, to Tokyo Shibaura Electric Co., Ltd. Control device for display apparatus. 3,688,299, 8-29-72, Cl. 340-324.00a.
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- Matsushita, Toru; Suzuki, Kunimoto; and Hasegawa, Shoji, to Tokyo Shibaura Electric Co., Ltd. Method of applying coating of metal oxides upon substrates. 3,647,531, 3-7-72, Cl. 117-211.
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- Matsuura, Hideo; Imagawa, Katsuhiko; and Murase, Yoshihiko, to Nippon Gakki Seizo Kabushiki Kaisha. Vibrating plate for sound instrument. 3,669,214, 6-13-72, Cl. 181-32.
- Matsuura, Hideo; Kurokawa, Ikuji; and Murase, Yoshihiko, to Nippon Gakki Seizo Kabushiki Kaisha. Method for assembling tone hole closing means of wood-wind musical instruments and a construction of the means assembled thereby. 3,691,892, 9-19-72, Cl. 84-30.000.
- Matsuura, Hirokichi: See—
- Sano, Keizo; Watanabe, Taigi; Tanaka, Michihiko; Ichikawa, Yoshimitsu; Kato, Koichi; and Matsuura, Hirokichi, 3,682,846.
- Matsuura, Hirotosugu. Head-rest of the shock absorbing system. 3,680,912, 8-1-72, Cl. 297-391.000.
- Matsuura, Hirotosugu. Shock absorbing buffer. 3,695,665, 10-3-72, Cl. 293-70.000.
- Matsuura, Kenji: See—
- Muto, Iwao; Matsumura, Yutaka; Nishijui, Katsuyuki; and Matsuura, Kenji, 3,670,562.
- Matsuura, Kiyoshi: See—
- Yamagata, Kiyoshi; Matsuura, Kiyoshi; Ito, Toshio; Miyamoto, Toshio; and Wada, Yuichi, 3,644,860.
- Matsuura, Masanori: See—
- Mitsuishi, Yukio; Matsuura, Masanori; and Kuroda, Toshimasa, 3,651,198.
- Matsuura, Mikio: See—
- Masuyama, Takeshi; Matsuura, Mikio; Iida, Yoshio; and Amemiya, Toshiaki, 3,642,664.
- Matsuura, Shigeo, to Hitachi, Ltd. Method for manufacturing a variable capacitance diode. 3,638,301, 2-1-72, Cl. 29-589.
- Matsuura, Shoji: See—
- Inaba, Kohsaku; Yoshida, Seisaku; Matsuura, Shoji; and Murakami, Tsukasa, 3,679,005.
- Matsuura, Takashi; and Chikanon, Mitsuo, to Hoya Glass Works. Glass color filter for use under daylight color fluorescent light. 3,706,688, 12-19-72, Cl. 252-300.000.
- Matsuura, Tetsuro: See—
- Takayanagi, Motowo; Sugiura, Shotaro; Matsuura, Tetsuro; Ueno, Haruo; Tsuji, Keiichi; Yamamoto, Shinji; and Matsumoto, Fuminori, 3,644,585.
- Matsuyama, George: See—
- Petersen, Arne J.; and Matsuyama, George, 3,649,506.
- Matsuyama, Hirokazu: See—
- Moroe, Tatsuo; Komatsu, Akira; Akutagawa, Susumu; Sakaguchi, Toshiaki; and Matsuyama, Hirokazu, 3,706,809.
- Matsuyama, Junichi: See—
- Katayama, Shizuo; Matsukawa, Hiroharu; Yamato, Masaya; and Matsuyama, Junichi, 3,687,865.
- Matsuyama, Kihachiro: See—
- Takayanagi, Kenjiro; Matsuyama, Kihachiro; Fujiwara, Tadashi; Mizuno, Hideaki; and Akiyama, Naoki, 3,692,576.
- Matsuyama, Shigeru: See—
- Takashima, Masaru; Saito, Masao; Matsuyama, Shigeru; and Ueki, Kazufusa, 3,681,051.
- Matsuzaka, Junichi: See—
- Koshimura, Masamitsu; Haruta, Yukinori; Matsuzaka, Junichi; and Wako, Shinichi, 3,663,599.
- Yoshida, Toyohiko; Wako, Shinichi; Koshimura, Masamitsu; Matsuzaka, Junichi; and Haruta, Yukinori, 3,657,384.
- Matsuzaka, Takashi: See—
- Kubota, Tadao; Matsuzaka, Takashi; and Inokuchi, Seizi, 3,645,358.
- Matsuzaki, Hiroshi: See—
- Nakamura, Isao; and Matsuzaki, Hiroshi, 3,705,412.
- Matsuzaki, Soichiro; Sato, Masanobu; and Kato, Toshikazu, to Olympus Optical Co., Ltd. Programming shutter for a photographic camera. 3,643,562, 2-22-72, Cl. 95-10.
- Matsuzaki, Takashi: See—
- Seki, Toshio; Suzuki, Kozaburo; and Matsuzaki, Takashi, 3,647,746.
- Matsuzawa, Hideo; Itoh, Hiroto; and Yoshioka, Teruhiko, to Mitsubishi Rayon Co., Ltd. Process for recovering dimethylformamide by distillation with dimethylamine addition. 3,647,640, 3-7-72, Cl. 203-38.
- Matsuzawa, Hideto: See—
- Yuminaka, Takeo; Iwasaka, Tatsuo Co., Ltd.; Matsuzawa, Hideto; Kawatake, Koichi; and Hirasawa, Kotaro, 3,642,099.
- Matsuzawa, Katsuo; and Matsui, Kazuo, to Mitsubishi Chemical Industries Limited. Process for producing bis(β -hydroxyethyl)-terephthalate and/or prepolymer thereof. 3,639,448, 2-1-72, Cl. 260-475.
- Matsuzawa, Kazuchiyo: See—
- Ohara, Katsuhiko; and Matsuzawa, Kazuchiyo, 3,654,612.
- Matsuzawa, Norio: See—
- Wada, Shigeru; Oi, Hidesaburo; Matsuzawa, Norio; Nishimura, Hiroshi; and Sasaki, Juntaro, 3,701,763.
- Matsuzawa, Takayoshi: See—
- Takashio, Haruo; and Matsuzawa, Takayoshi, 3,644,101.
- Matt, Richard J.: See—
- Van Dorn, Horace B.; Matt, Richard J.; and Rolland, Thomas P., 3,697,346.
- Matt, Richard J.; and Rolland, Thomas P., to Textron, Inc. Composite plastic bearing and method for making the same. 3,692,375, 9-19-72, Cl. 308-238.000.
- Mattarocci, Domenic. Fishing weights. 3,641,699, 2-15-72, Cl. 43-43.1.
- Mattas, Charles B., to Ampex Corporation. Control circuit for a bi-directional recorder. 3,647,989, 3-7-72, Cl. 179-100.2.
- Mattauch, Robert J.: See—
- United States of America, National Aeronautics & Space Administration, 3,700,897.
- Mattel, Inc.: See—
- Baeza, Armando M., 3,706,155.
- Baginski, Albert R.; Benson, John T.; DeGelder, Jacob; and Marason, Gabriel, Jr., 3,645,037.
- Baginski, Albert R.; De Gelder, Jacob; and Marason, Gabriel, Jr., 3,646,703.
- Baginski, Albert R.; Okada, David T.; and Stastny, Edwin O., 3,695,148.
- Bales, Joseph H.; Prodder, Brian S.; and Ruppel, Kurt, 3,696,555.
- Bass, Sidney; Clarke, Charles D.; and Morse, James E., 3,664,055.
- Baynes, William R.; La Branche, Harvey W.; and Soullakis, George, 3,695,513.
- Beasley, Noel F.; and Wever, Ray, 3,702,515.
- Benson, John T.; and Miller, Anthony D., 3,665,636.
- Beny, Janos; Bosley, Denis V.; and Kennedy, Melvin R., 3,654,728.
- Beny, Janos; Kingsbury, LC James; and Scribner, David L., 3,678,618.
- Bosley, Denis V.; and Pearce, Lucia C., 3,646,592.
- Burns, Edgar, 3,672,679.
- Chang, Richard S.; Cutler, Stanley; La Branche, Harvey W.; Pearlman, Marshall B.; Ryan, John W.; and Toy, Raymond M., 3,647,927.
- Clarke, Charles D., 3,676,950.
- Clarke, Charles D.; and Hartling, Donald C., 3,699,705.
- Cowell, Robert L.; May, Richard L.; See, Thomas E.; and Stastny, Edwin O., 3,633,924.
- Cutler, Stanley, 3,657,460.
- de Gelder, Jacob; Baginski, Albert R.; and Miller, Anthony D., 3,674,271.
- de Gelder, Jacob; and Phillips, Gary E., 3,675,362.
- Dubreuil, Philip B.; Bartok, Stephen; and Crawford, William R., 3,672,408.
- Edmisson, Russell C.; and Starr, Stanley R., 3,677,469.
- Folson, Henry J.; Lucas, Daniel R., Jr.; Staats, William A.; and Tucker, James I., 3,691,669.
- Folson, Henry J.; Boxley, Denis V.; Kingsbury, James; Kraitzer, Shlomo; Soullakis, George; and Whittington, Jimmie L., 3,706,153.
- Ford, Thomas R.; and Martin, Edward T., III, 3,681,489.
- Fox, James H.; Dworkin, Darryl R.; and LeUng, Han Chung, 3,666,274.
- Fryc, Oldrich; Okada, David T.; and Robson, George E., 3,638,353.
- Garcia, Armando J.; Gunther, Gregory M.; and Villanueva, Juanito O., 3,690,030.
- Gardel, Robert; and Gorsky, Egon, 3,641,702.

- Gardel, Robert; and Gorsky, Egon, 3,660,931.
- Gardel, Robert; and Gorsky, Egon, 3,672,097.
- Gardel, Robert; and Gorsky, Egon, 3,700,384.
- Gay, Derek J., 3,632,110.
- Goodkind, Karen B.; Hamilton, Brett B.; Larson, Ake L.; and Whittington, Jimmie L., 3,667,136.
- Groves, Sydney L.; Kuchta, Frank J.; Lewis, J. Stephen; Maurer, Donald J.; May, Richard L.; Ryan, John W.; and Vowles, Colin, 3,670,451.
- Gunther, Gregory M.; Fekete, Ferenc; Liedtke, Ronald R.; and Stephens, Donald H., 3,643,374.
- Gunther, Gregory M.; Lewis, J. Stephen; Nishiguchi, Masakatsu; Robson, George E.; Wagner, Raymond P.; and Yarbrough, William R., 3,696,552.
- Handler, Elliot; Ryan, John W.; Lemkin, Jack L.; and Dunn, Ralph, 3,686,894.
- Handler, Elliot; Beasley, Noel F.; Garcia, Armando J.; and May, Richard L., 3,699,712.
- Harting, Donald C.; Danielsen, Berne E.; and Nagus, Eilfred, 3,634,969.
- Hartling, Donald C.; Joseph, Hawthorne; and Radin, William, 3,698,125.
- Holiday, William, 3,662,078.
- Kennedy, Melvin R.; and Prodder, Brian S., 3,667,672.
- La Branche, Harvey W., 3,638,356.
- La Branche, Harvey W.; and Northrop, John H., 3,694,660.
- Larsson, Ake L., 3,638,282.
- Lemkin, Jack L.; Leistikow, Gerard K.; Edmisson, Russell C.; and Benson, John T., 3,670,449.
- Lewis, J. Stephen; Collins, Harold B.; Sapkus, Jurgis; and Villanueva, Juanito O., 3,693,288.
- Lewis, J. Stephen; Sapkus, Jurgis; and Villanueva, Armando P., 3,696,553.
- Lewis, J. Stephen; Sapkus, Jurgis; Antell, Earl O.; and Robson, George E., 3,699,715.
- Malek, Jack H.; and Dawson, Trevor, 3,672,261.
- Marason, Gabriel, Jr.; Ma, Austin C.; and Osborne, Brian G., 3,701,215.
- Maurer, Donald J., 3,633,286.
- Meggs, Daniel H.; and Ryan, John W., 3,667,361.
- Merino, Dennis H.; and Schlaue, Floyd E., 3,691,757.
- Mills, Michael Colin, 3,675,363.
- Nash, Alan W. B.; and Prodder, Brian S., 3,643,372.
- Nicholls, Reginald W., 3,705,720.
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- Peterson, Robert L.; and Wieman, Paul R., 3,657,459.
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- Prodder, Brian S.; and Smith, Orbert S., 3,653,149.
- Robson, George E., 3,656,586.
- Ryan, John W.; Tomkinson, John G.; and Wieman, Paul R., 3,675,925.
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- Schlaue, Floyd E.; Bosley, Denis V.; Crain, Philip W.; and Douglas, Raymond J., 3,675,361.
- Schlosser, Edmund, 3,675,931.
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- Stewart, George W., Jr., 3,689,760.
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- Summerfield, William F., 3,675,930.
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- Tucker, James I., 3,653,626.
- Workman, Larry D., 3,636,654.
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Erickson, Rodney R.; Matthews, Ralph W.; and Sprangel, Richard V., 3,687,160.
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- Matthews, Raymond A. Method of drawing metal tubes. 3,701,270, 10-31-72, Cl. 72-57.000.
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Bartles, Edward C.; and Matthews, William R., 3,642,131.
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Vaud, Janos Kurucz; and Matthey, Andre, 3,685,935.
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Matthey, Emile, 3,646,848.
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Schulz, Gerhard; and Matthias, Guenther, 3,679,739.
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Weissohn, Karl-Helmut, 3,633,820.
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Diebold, Adolf; and Matthias, Marx, 3,698,929.
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- Matthies, Dennis Lee, to RCA Corporation. Compounding liquid crystal cells. 3,661,444, 5-9-72, Cl. 350-160.
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- Matti, Leo F. Container top opener. 3,678,788, 7-25-72, Cl. 81-3430.
- Mattia, Michael: *See—*
Van Sciver, Herbert D., II; and Mattia, Michael, 3,639,215.
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Bowen, Dennis Herbert; Mattingley, Neville John; and Sambell, Ronald Alfred James, 3,646,908.
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- Mattingly, Denis Albert Edward, to Scragg, Ernest, & Sons Limited. Apparatus for false twisting yarn. 3,635,009, 1-18-72, Cl. 57-77.45.
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- Mattingly, Frederick William, to Toolmasters Limited. Electric motor. 3,678,311, 7-18-72, Cl. 310-156.000.
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Mattingly, Charles D., 3,705,228.
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Gaipo, Eugene T.; and Mattingly, James E., 3,699,934.
- Mattingly, William R., Jr.; and Goodman, David S., to International Telephone and Telegraph Corporation. Printed circuit board connector. 3,673,548, 6-27-72, Cl. 339-186.00m.
- Mattinson, Frederick, to Martin-Thomas Limited. Rope climbing devices. 3,680,839, 8-1-72, Cl. 254-175.500.
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- Mattis, John A., to Signetics Corporation. Integrated circuit bilateral current source. 3,683,270, 8-8-72, Cl. 323-4.000.
- Mattison, Norbert A. Highway cleaner. 3,669,289, 6-13-72, Cl. 214-353.000.
- Mattison, Philip L.; and Swanson, Ronald R., to General Mills, Inc. Process of extracting copper with certain substituted 2-hydroxybenzophenoximes. 3,655,347, 4-11-72, Cl. 23-312.
- Mattix, Jacob M. Concealed coner lock clip system. 3,688,459, 9-5-72, Cl. 52-285.000.
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Kemmer, Frank N.; Robertson, Reid S.; and Mattix, Rodney D., 3,640,820.
- Matto, Victor G. Thermal switch. 3,649,943, 3-14-72, Cl. 337-380.
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- Matts, George A.; and Quarmby, Robert C., to USM Corporation. Manufacture of springs. 3,705,609, 12-12-72, Cl. 140-103.000.
- Mattson, John H.: *See—*
Meyers, James D.; and Mattson, John H., 3,700,235.
- Mattson, Nils Albert Uno: *See—*
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- Mattson, William R., to Sylvania Electric Products, Inc. Strain relief wire holder. 3,670,094, 6-13-72, Cl. 174-65.00r.
- Mattsson, Bo Gunnar, to Aktiebolaget Electrolux. Multi-purpose vacuum cleaner nozzle. 3,659,312, 5-2-72, Cl. 15-319.
- Mattsson, Erik Harry; and Wurth, Hans Ulrich. Method for anchoring fasteners in cellular plastic materials and joints obtained thereby. 3,650,878, 3-21-72, Cl. 161-48.
- Mattsson, Leif Erling M.; and Fredriksson, Karl Garry Kenneth, to Jonsereds Fabriks Aktiebolag. Safety means for power-driven chain saws. 3,664,390, 5-23-72, Cl. 143-32.
- Mattsson, Mats Erik: *See—*
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- Mattsson, Mats Erik; and Lindelow, Claes-Goran, to Svenska Dataregister AB. Device for a business machine. 3,672,566, 6-27-72, Cl. 235-60.490.
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- Matty, Thomas C.: *See—*
Perry, Robert H.; and Matty, Thomas C., 3,673,429.
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Saikawa, Isamu; Matubara, Yasumasa; and Hori, Takako, 3,694,436.
- Matui, Aturo: *See—*
Ichiki, Eiichi; Iida, Kazuo; and Matui, Aturo, 3,652,621.
- Matui, Etuo: *See—*
Iida, Eiichi; Komatsubara, Tsuneo; Ueno, Sadao; Takeuchi, Soichiro; Matui, Etuo; and Sano, Toshio, 3,654,248.
- Matui, Takao: *See—*
Hojo, Toki; Matui, Takao; and Kimura, Rikiti, 3,684,384.
- Matulis, Albert J., to United States of America, Army. Distortion-free mirror attached to a metallic holder. 3,676,274, 7-11-72, Cl. 161-4.000.
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- Takayanagi, Motowo; Sugiura, Shotaro; Matsuura, Tetsuro; Ueno, Haruo; Tsuji, Keiichi; Yamamoto, Shinzi; and Matumoto, Fuminori, 3,644,585.
- Matumoto, Genya: *See—*
Yamagishi, Akio; and Matumoto, Genya, 3,666,807.
- Matumoto, Sakuzo, to Olympus Optical Co., Ltd. Digital micrometer. 3,686,766, 8-29-72, Cl. 33-166.000.
- Matumoto, Tooru: *See—*
Watanabe, Kumao; Matumoto, Tooru; and Nakagawa, Tamio, 3,663,974.
- Maturo, Thomas F., Jr.; and Prinszano, Frank. Beach cart. 3,677,571, 7-18-72, Cl. 280-36.00r.
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- Matuska, James E. Quickly removable pivotal and snubbed storage bin. 3,700,199, 10-24-72, Cl. 248-292.000.
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Demchuk, Alexandr Fedorovich; Deribas, Andrei Andreevich; Kudinov, Vladimir Mikhailovich; Matvenkov, Felix Iovich; and Simonov, Valery Alexandrovich, 3,650,014.
- Matveev, Ivan Ivanovich: *See—*
Erlykin, Ivan Ivanovich; Vasin, Alexandr Ivanovich; Korotkov, Mikhail Mikhailovich; Maximov, Vadim Yakovlevich; Matveev, Ivan Ivanovich; Kadyshchev, Vladimir Alexandrovich; Volkov, Valentin Vladimirovich; Firsell, Vladlen Borisovich; Bulatkin, Vladimir Dmitriyevich; Malekhanov, Igor Evgenievich; and Suldin, Stanislav Nikolaevich, 3,693,570.
- Matvey, Joseph J. Grave marking structure protective devices. 3,650,072, 3-21-72, Cl. 52-102.
- Matwecha, David M., to Fuller Company. Blending apparatus. 3,648,985, 3-14-72, Cl. 259-4.
- Matwey, Paul, to GAF Corporation. Print receiving tray design. 3,658,323, 4-25-72, Cl. 271-86.
- Matysek, John J., to Remote Controls Corporation. Modular timer for use in traffic control systems. 3,644,884, 2-22-72, Cl. 340-40.
- Matzen, Max, to Klockner-Humboldt-Deutz Aktiengesellschaft. Centrifugal speed governor, especially for prime movers. 3,672,385, 6-27-72, Cl. 137-53.000.
- Matzen, Walter T.; and Spence, Hilton Wayne, to Texas Instruments, Incorporated. Optical switching for keyboard encoder. 3,668,407, 6-6-72, Cl. 250-229.
- Matzner, Edwin A., to Monsanto Company. Dehydrogenating normal paraffins with improved catalyst. 3,632,661, 1-4-72, Cl. 260-683.3.
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- Matzner, Markus: *See—*
Chow, Sui-Wu; Matzner, Markus; and McGrath, James E., 3,681,473.
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- Matzner, Markus, to Union Carbide Corporation. Block copolycarbonates containing polylactone blocks and cyclobutylene polycarbonate blocks. 3,639,503, 2-1-72, Cl. 260-860.
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- Matzner, Markus; and McGrath, James E., to Union Carbide Corporation. Lactam block copolymers. 3,657,385, 4-18-72, Cl. 260-857.
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Ruyle, William V.; Sarett, Lewis H.; and Matzuk, Alexander R., 3,674,870.
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- Shen, Tsung-Ying; Matzuk, Alexander R.; and Dorn, Conrad P., Jr., 3,668,212.
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- Matzuzi, Guglielmo: *See—*
- Pregaglia, Gianfranco; Agamennone, Marco; Santangelo, Nicola; and Matzuzi, Guglielmo, 3,660,480.
- Mau, Edith: *See—*
Mau, Kurt; and Seitz, August, 3,682,672.
- Mau, Kathie: *See—*
Mau, Kurt; and Seitz, August, 3,682,672.
- Mau, Kurt; deceased (by Mau, Kathie; and Mau, Edith; heirs); and Seitz, August, to F.A.G. Siegle & Co. GmbH. Molybdenum red and molybdenum orange pigments and process of making the same. 3,682,672, 8-8-72, Cl. 106-297.000.
- Mauch, Harold A.; and Miller, Robert N., to International Computer Products, Inc. Method and apparatus for processing data. 3,685,021, 8-15-72, Cl. 340-172.500.
- Maucher, Paul, to Luk Lamellan und Kupplungsbau GmbH. Clutch disc. 3,684,070, 8-15-72, Cl. 192-106.200.
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Walkup, Norris W.; Mauck, James W.; and Hood, Irvin D., 3,631,584.
- Mauck, Robert J. Fishing lure retriever. 3,688,429, 9-5-72, Cl. 43-17.200.
- Maude, Stanley Morgan, to Alto Corporation. Article handling equipment. 3,700,129, 10-24-72, Cl. 214-309.000.
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- Mauk, Robert R., to Kraftco Corporation. Preparation of pasta fiata cheese. 3,692,540, 9-19-72, Cl. 99-116.000.
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Clark, Willard; and Campbell, Charles, 3,687,274.
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Wirth, Hermann Otto; Maul, Rudolf; Friedrich, Hans-Helmut; and Hess, Wilhelm, 3,649,662.
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- Morane, Bruno; Maurelli, Manlio; Paoletti, Charles; Merrien, Louis; and Sathicq, Robert, 3,667,652.
- Maurer & Co.: *See—*
- Maurer, Ludwig; and Von Ruti, Jurg, 3,654,549.
- Maurer, Albrecht: *See—*
- Muller, Ernst; and Maurer, Albrecht, 3,702,150.
- Timtner, Karlheinz; Maurer, Albrecht; and Maurer, Ruprecht, 3,681,939.
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- Durso, August J.; Maurer, Frank C.; and McEnery, John F., 3,648,872.
- Maurer, Hans W.: *See—*
- Touzinsky, Gerald F.; and Maurer, Hans W., 3,640,925.
- Maurer, John A.: *See—*
- Buchtel, Dean H.; Lappin, Kenneth R.; and Maurer, John A., 3,653,078.
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- Buchtel, Dean H.; and Maurer, John A., 3,684,341.
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- Maurer, Joseph M., to Kaiser Aluminum & Chemical Corporation. Panel and lap joint made therefrom. 3,667,185, 6-6-72, Cl. 52-537.000.
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- Zahradnik, George J.; and Maurer, Mel E., 3,695,535.
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- Maurer, William C.: *See—*
- Lock, Everett H.; and Maurer, William C., 3,687,493.
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- Maurey, Veuve: *See—*
- Bechard, Emile; and Maurey, Veuve, 3,649,468.
- Maurhoff, Gerhard: *See—*
- Leitermann, Wulf; and Maurhoff, Gerhard, 3,653,784.
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- Jommi, Giancarlo; Mauri, Francesco A.; and Riva, Giovanna, 3,689,478.
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- Maurice, Jean, to Societe Anonyme Francaise du Ferodo. Assisted control especially for automobile vehicles. 3,638,425, 2-1-72, Cl. 60-54.5.
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- Szostak, Roland; Hartwig, Karl; and Maurischat, Gunter, 3,705,289.
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- Maury, Lawson D. Compound mitering device. 3,695,318, 10-3-72, Cl. 144-35.000.
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- Maus, Fritz: *See—*
- Browatzki, Kurt; Gref, Hans; Herzhoff, Peter; Maus, Fritz; Platz, Stephan; Schaum, Gustav; Schweicher, Wolfgang; and Wasser, Willi, 3,676,178.
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- Maus, Nolan Keith: *See—*
- Davis, Gary F., Jr.; and Maus, Nolan Keith, 3,636,272.
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- Hammes, Wilhelm, 3,647,110.
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- Hupp, Gerhard; and Mader, Helmut, 3,650,177.
- Mausner, Marvin: *See—*
- Benson, Albert; and Mausner, Marvin, 3,681,443.
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- Kapur, Brij L.; and Mausner, Marvin L., 3,687,999.

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- Rettig, Vernon Eugene; Maust, John Edward, Jr.; and Shindelar, Joseph John, 3,645,074.
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- Tepper, Frederick; and Mausteller, John W., 3,692,026.
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- Stewart, Dair J., 3,640,889.
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- Mawhinney, Daniel David, to RCA Corporation. Microwave oscillator with two or more paralleled semiconductive devices. 3,659,223, 4-25-72, Cl. 331-107.
- Mawson, Desmond Leonard; and Malone, Bernard, to Hooker Chemical Corporation. Mould making machines. 3,664,406, 5-23-72, Cl. 164-161.
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- Mashita, Saburo, 3,665,580.
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- King, James A.; and Maxam, David R., 3,677,406.
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- Burgess, John Leslie; and Harvey, Joseph-Eric, 3,693,899.
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- Dekking, Henri; and Maxey, Edwin M., 3,661,620.
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- Hill, William Green; and Maxey, Whorley William, 3,662,440.
- Maxfield, John Raymond: *See—*
- Watson, Christopher Alan; and Maxfield, John Raymond, 3,678,497.
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- Chepigo, Sergei Vladimirovich; Belenky, Solomon Isosifovich; Somov, Vsevolod Sergeevich; Voronkov, Vasily Gerasimovich; Belavsky, Mikhail Alexandrovich; Korotae, Oleg Georgievich; Rodionova, Galina Sergeevna; Maximenko, Nikolai Spiridonovich; Glazman, Bori Aronovich; Belova, Larisa Alexandrovna; and Vorobiova, Galina Ivanovna, 3,654,084.
- Maximov, Igor Petrovich: *See—*
- Maximovich, Boleslav Ivanovich; Dudko, Daniil Andreevich; Agafonov, Nikolai Georgievich; Maximov, Igor Petrovich; Andreev, Vadim Grigorievich; Lepilov, Nikolai Yakovlevich; Svinov, Alexei Kapitonovich; Slonimsky, Alexandr Borisovich; Volk, Boris Zakharovich; Gubin, Alexandr Ivanovich; and Katsman, Berta Osipovna, 3,677,330.
- Maximov, Mikhail Mikhailovich: *See—*
- Geshelin, Boris Mikhailovich; Maximov, Mikhail Mikhailovich; Rozenberg, Maxim Davidovich; and Yakovleva, Nadezhda Evgenievna, 3,686,491.
- Maximov, Vadim Yakovlevich: *See—*
- Erlykin, Ivan Ivanovich; Vasin, Alexandr Ivanovich; Korotkov, Mikhail Mikhailovich; Maximov, Vadim Yakovlevich; Matveev, Ivan Ivanovich; Kadyshchev, Vladimir Alexandrovich; Volkov, Valentin Vladimirovich; Firsell, Vladen Borisovich; Bulatkin, Vladimir Dmitriyevich; Malekhanov, Igor Evgenievich; and Suldin, Stanislav Nikolaevich, 3,693,570.
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- Condon, James A.; and Rothhaar, Charles W., 3,706,438.
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- Matthews, Merton Louis, 3,703,117.
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- Maxson, Orwin G.; and Hunt, Mack W., to Continental Oil Company. Dyeable polyolefin compositions. 3,639,373, 2-1-72, Cl. 260-93.7.
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- Maxwell, Donald L., to General Mills, Inc. Process for forming a multi-colored food product. 3,690,896, 9-12-72, Cl. 99-81.000.
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- Maxwell, Edward Ralph. Portable tree stand. 3,703,939, 11-28-72, Cl. 182-107.000.
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- Maxwell, Milton, to Colgate-Palmolive Company. Container fill weight monitoring system. 3,697,754, 10-10-72, Cl. 250-83.300.
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- Maxwell, William: *See—*
- Spergel, Philip; Gaines, Stanley L.; Maxwell, William; McFayden, Ronald; Rosse, Thomas A.; and Blackmer, David E., 3,658,478.
- May & Baker Limited: *See—*
- Heywood, Basil Jason; and Merez, Otto, 3,652,656.
- May, Carl J., Jr.: *See—*
- Long, Norwood G.; and May, Carl J., Jr., 3,681,533.
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- May, Donald L., to Centron Engineering Inc. Correlation spectrometer. 3,694,086, 9-26-72, Cl. 356-51.000.
- May, Eugene Noel, to J/B Industries, Inc. Pressure-responsive control device for electrical circuit. 3,665,132, 5-23-72, Cl. 200-83.
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- May, Joseph N.: *See—*
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- May, Oswald, to Klockner-Humboldt-Deutz Aktiengesellschaft. Tractor. 3,704,909, 12-5-72, Cl. 296-102.000.
- May, Otto B., Inc.: *See—*
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- Wagstaff, Frank E.; Wagstaff, William G.; and May, Paul H., 3,665,999.
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- May, Randall L., to Coleman Company, Inc., The. Portable sanitary toilet. 3,693,193, 9-26-72, Cl. 4-142.000.
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- Groves, Sydney L.; Kuchta, Frank J.; Lewis, J. Stephen; Maurer, Donald J.; May, Richard L.; Ryan, John W.; and Vowles, Colin, 3,670,451.
- Handler, Elliot; Beasley, Noel F.; Garcia, Armando J.; and May, Richard L., 3,699,712.
- May, Russell R., Jr.: *See—*
- Dietz, Albert; Goodspeed, Neil C.; and May, Russell R., Jr., 3,640,744.
- Goodspeed, Neil C.; Dietz, Albert; and May, Russell R., Jr., 3,650,793.
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- Pettit, Lewis F., Jr.; and May, Thomas L., 3,684,942.
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- Mayall, William. Drilling apparatus. 3,637,033, 1-25-72, Cl. 175-320.
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- Oshibuchi, Koji; and Mayama, Masayoshi, 3,635,714.
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- Maycock, William E., to Fiber Industries, Inc. Polyesters having increased whiteness. 3,697,479, 10-10-72, Cl. 260-47.00c.
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- Gottsching, Herbert, 3,653,229.
- Groezinger, Gerhard, 3,665,731.
- Overdyck, Dieter; and Lehner, Fritz, 3,643,476.
- Plath, Ernst-Dieter, 3,659,436.
- Mayer & Cie, Firma: *See—*
- Martinetz, Johann, 3,670,526.
- Mayer, David P.: *See—*
- Richter, Sidney B.; and Mayer, David P., 3,655,731.
- Richter, Sidney B.; and Mayer, David P., 3,655,734.
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- Kampfer, Helmut; von Konig, Anita; Ranz, Erwin; von Rintelen, Harald; Mayer, Dietmar; and Sasse, Klaus, 3,674,479.
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- Ranz, Erwin; Kampfer, Helmut; von Rintelen, Harald; Schutz, Heinz-Dieter; Mayer, Dietmar; and Sasse, Klaus, 3,660,093.
- Scheibitz, Maria; von Konig, Anita; Kampfer, Helmut; Mayer, Dietmar; Sasse, Klaus; Kolb, Gunter; Honig, Hans Ludwig; and Meiser, Werner, 3,690,884.
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- Milligan, Lee J.; and Mayer, Douglas M., 3,643,890.
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- Shin, Paik Woo; and Mayer, Edward H., 3,634,148.
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- Crosslen, Louis John, 3,661,273.
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- Michel, Eberhard; and Mayer, Hans, 3,637,008.
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- Hemminger, Charles E.; and Mayer, Ivan, 3,662,020.
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- Palau, Dieter K.; and Mayer, James R., 3,697,113.
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- Futterer, Bodo; Stemme, Otto; and Mayer, Jürgen, 3,690,043.
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- Dabritz, Erich; and Mayer, Karl Heinrich, 3,654,295.
- Mayer, Karl, Textilmaschinenfabrik GmbH: *See—*
- Schneider, Harald; and Wicha, Cornel, 3,678,711.
- Mayer KG, Firma: *See—*
- Mayer, Georg, 3,659,380.
- Mayer KG, Maschinenbau, Firma: *See—*
- Mayer, Georg, 3,655,064.
- Mayer, Kurt: *See—*
- Sturm, Hans Jürgen; Mayer, Kurt; Kilpper, Gerhard; and Armbrust, Herbert, 3,639,387.
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- Mayer, Kurt, to Montanwerke Walter GmbH. Adjustable tool holder for releasable milling cutter bits for use in replaceable-bit milling cutter head-type milling machine. 3,675,290, 7-11-72, Cl. 29-96.000.
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- Bard, John C.; and Olson, Floyd C., 3,679,434.
- Gifford, Maurice J.; and Seiferth, Oscar E., 3,648,834.
- Gifford, Maurice J.; Seiferth, Oscar E.; and Grindrod, Paul E., 3,698,979.
- Jensen, Hans A.; and Layman, Melvin M., 3,645,065.
- Moss, Valentin G.; and Trautman, Jack C., 3,692,538.
- Olson, Floyd C.; and Podebradsky, Everett V., 3,649,300.
- Paynter, William D.; and Kielsmeier, Elwood W., 3,634,102.
- Podebradsky, Everett V., 3,672,913.
- Seiferth, Oscar E.; Goller, Robert L.; Grindrod, Paul E.; and Radloff, Harry L., 3,647,485.
- Seiferth, Oscar E.; Grindrod, Paul E.; Gifford, Maurice J.; and Austin, Glenn M., 3,663,240.
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- Mayer, Richard E.; and Crescentini, Lamberto, to Allied Chemical Corporation. Polyamide-polyester dispersions containing secondary and tertiary amino terminating moieties on the polyamides. 3,644,572, 2-22-72, Cl. 260-857.
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- Mayer, Richard Eugene: *See—*
- Meneghini, Carlo; Mayer, Richard Eugene; Lazarus, Stanley David; and Rainer, Norman Barry, 3,654,679.
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- Kinberg, Benjamin; and Mayer, Richard J., 3,653,663.
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- Mayer, Robert H., to Carrier Corporation. Coupling assembly for replacement of return bend. 3,704,035, 11-28-72, Cl. 285-157.000.
- Mayer, Robert W.: *See—*
- Schneider, Raymond C.; and Mayer, Robert W., 3,680,398.
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- Mayer, Siegfried: *See—*
- Kraemer, Friedrich; Mandel, Jörn; Mayer, Siegfried; Rohrig, Klaus; Schulz, Hans-Peter; Weidenmüller, Hilmar; Haverkamp, Klaus Dieter; and Motz, Jürgen, 3,664,826.
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- Story, John N.; Mayer, Thomas E.; and Yokota, George, 3,648,722.
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- Mayer, Walter: *See—*
- Hoelzinger, Walther J.; Wenninger, Johann; Mayer, Walter; Zoegermitz, Karl; Schroetter, Hermann; and Braun, Werner, 3,669,064.
- Mayer, Walter, to International Harvester Company. Hinge beam for disk harrows. 3,648,781, 3-14-72, Cl. 172-568.
- Mayer, Warren Clifford: *See—*
- Stoveken, Francis Raymond; and Mayer, Warren Clifford, 3,667,999.
- Mayer, William J., to Teletype Corporation. Two stage workstock locator for punch presses. 3,665,795, 5-30-72, Cl. 83-395.000.
- Mayer, William N., to Control Data Corporation. Display faceplate switch. 3,641,299, 2-8-72, Cl. 200-167.
- Mayercord Co., The: *See—*
- Barta, Franz; and Grupp, Alfred F., 3,694,928.
- Mayerle, Evan A.; and Minderhout, James R., to Nalco Chemical Company. Electrosynthesis of tetraorganolead compounds. 3,696,009, 10-3-72, Cl. 204-72.000.
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- Mayes, Nathan; and Michaels, Ronald, to Thiokol Chemical Corporation. Nitroso polymers. 3,660,367, 5-2-72, Cl. 260-92.1.
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- Ingerson, Paul G.; and Mayes, Paul E., 3,633,207.
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Brak, Stephen B.; Steves, Clarence; and Mayfield, Ross M., 3,654,794.
- Mayfield, James L.: *See*—
Bryant, Gerald T.; and Mayfield, James L., 3,635,599.
- Mayfield, John C., to Dow Chemical Company, The. Nitric acid removal from organic acids. 3,632,640, 1-4-72, Cl. 260-535.
- Mayfield, Prentiss B., to Witco Chemical Corporation. Coating compositions containing coal tar distillate extender resin and an epoxy ether resin. 3,649,589, 3-14-72, Cl. 260-37.
- Mayfield, Ross M.: *See*—
Brak, Stephen B.; Steves, Clarence; and Mayfield, Ross M., 3,654,794.
- Mayfield, William A.: *See*—
Alexander, Gilbert L.; Neville, Arthur W.; and Mayfield, William A., 3,647,026.
- Mayhew, John T. Guide roll construction and utilization. 3,649,381, 3-14-72, Cl. 148-156.
- Mayhew, John T. Method of cooling hot dipped galvanized continuously moving workpieces. 3,698,938, 10-17-72, Cl. 117-114.00a.
- Mayhew, Ken: *See*—
Leatherman, Ralph W., 3,699,285.
- Mayland, Harrison C., to Atlantic Richfield Company. Catalytic cracking of shale oil over zeolite catalyst. 3,654,141, 4-4-72, Cl. 208-120.
- Maylandt, Helmut; Forster, Herbert; and Juhasz, Josef, to Bosch, Robert, G.m.b.H. Self-healing electrical condenser. 3,699,410, 10-17-72, Cl. 317-258.000.
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- Mayline Company, Inc.: *See*—
Kritske, Victor J., 3,675,594.
- Maylott, Asa O.: *See*—
Prince, Richard N.; and Maylott, Asa O., 3,632,446.
- Maylotte, Donald H., to General Electric Company. Method for making photopolymerized tetrafluorethylene films. 3,679,461, 7-25-72, Cl. 117-93.310.
- Maynard, Baylor H., Jr., to Versadome Corporation. Modular tubular-skeleton building adapted to be readily assembled and disassembled and re-assembled. 3,690,078, 9-12-72, Cl. 52-86.000.
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Plasket, Chetsten S., 3,696,556.
- Maynard, Douglas Edward, to National Research Development Corporation. Electroencephalograph monitoring apparatus. 3,699,947, 10-24-72, Cl. 128-2.10b.
- Maynard, Edmund M., to Gaydell, Inc. Detachable handle assembly for cooking utensils. 3,707,015, 12-26-72, Cl. 16-114.
- Maynard Electric Steel Casting Co.: *See*—
Polenz, Thomas R.; and Schober, Elmer A., 3,659,114.
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- Maynard, John T., to Smith, A. O., Corporation. Dynamoelectric machine control circuit having current limiting means. 3,683,252, 8-8-72, Cl. 318-331.000.
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DeJong, Egbert D.; Koch, Hans; and Maynard, Kenneth B., 3,672,118.
- Maynard, Maurice J., to Westvaco Corporation. Hydraulic system for controlling resin pickup. 3,671,298, 6-20-72, Cl. 117-115.000.
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Iannicelli, Joseph; Kunkle, Albert C.; and Maynard, Robert N., 3,661,515.
- Maynard, Robert W.: *See*—
Conroy, John P.; Grimes, Kendall H.; and Maynard, Robert W., 3,650,226.
- Mayne, David W.: *See*—
Howell, Jones V., Jr.; and Mayne, David W., 3,707,705.
- Mayne, Neil R.; and Van Olmen, Johan, to Shell Oil Company. Propiolactone stabilization. 3,681,267, 8-1-72, Cl. 260-343.900.
- Maynen, James D.; and Bowden, George F., to Symons Mfg. Company. Having surface continuity and filler strips therefor. 3,664,630, 5-23-72, Cl. 249-112.000.
- Maynor, Frederick L.: *See*—
Jarovitzky, Peter A.; and Maynor, Frederick L., 3,681,293.
- Mayo, Alfred M. Rail suspension arrangement. 3,690,266, 9-12-72, Cl. 104-123.000.
- Mayo, Alfred M. Fuel cell battery. 3,692,585, 9-19-72, Cl. 136-86.00r.
- Mayo, Cecil J.; and Kilburg, Ronald J., to Insul-8-Corporation. Composite electrical conductor. 3,699,275, 10-17-72, Cl. 191-29.000.
- Mayo, Edmund S., to Holotron Corporation. Bleaching of holograms. 3,642,472, 2-15-72, Cl. 96-27.
- Mayo, Frank H., to Champion Chemicals, Inc. Composition for removal of calcium sulfate deposits. 3,696,040, 10-3-72, Cl. 252-87.000.
- Mayo, Henry C., to United States of America, Army. Quick-release, self-locking hook. 3,653,101, 4-4-72, Cl. 24-241.
- Mayo, Howard A., Jr.; and Murphy, Edwin W., to Allis-Chalmers Manufacturing Company. Hydraulic turbine inlet configuration. 3,693,356, 9-26-72, Cl. 61-25.000.
- Mayo, Kenneth E.: *See*—
Des Champs, Nicholas Howard; Mayo, Kenneth E.; Messier, Douglas Arthur; and James, Ronald William, 3,663,306.
- Mayo, Kenneth E.; and Parker, Eugene K., to Sanders Nuclear Corporation. Self-compensating thermal insulation garments. 3,675,244, 7-11-72, Cl. 2-2.10r.
- Mayo, Richard W.: *See*—
Desaulniers, Charles W.; Ford, Cheryl A.; and Mayo, Richard W., 3,651,030.
- Mayo, Robert A.; and Ohringer, Philip, to Technicon Instruments Corporation. Container holding rotatable body with adjustable balancing feature. 3,679,130, 7-25-72, Cl. 233-26.000.
- Mayo, Robert Alan: *See*—
Livshitz, Stanley L.; and Mayo, Robert Alan, 3,692,236.
- Mayor, Jean, to Materiaux S.A. Swimmer's shoe. 3,671,987, 6-27-72, Cl. 9-309.000.
- Mayor, Yoland P. P.; and Tord, Pierre F. Method for recovering nickel. 3,637,372, 1-25-72, Cl. 75-101.
- Mayr, Adolfo: *See*—
Susa, Ermanno; and Mayr, Adolfo, 3,634,384.
- Mayr, Helmut; Pelte, Richard; Hubert, Theo; and Strasser, Helmut, to Agfa-Gevaert Aktiengesellschaft. On-off motor control push button switch for photographic apparatus. 3,676,759, 7-11-72, Cl. 318-446.000.
- Mayr, Theodor: *See*—
Wanner, Rudolf; Mader, Berthold; and Mayr, Theodor, 3,633,718.
- Mays, Gordon E. Rotary drilling machine. 3,645,343, 2-29-72, Cl. 173-43.
- Mays, John C.: *See*—
Mays, William T.; and Mays, John C., 3,664,768.
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Skees, Hugh B.; and Mays, John D., 3,635,747.
- Mays, Michael Richard; and Paginton, Philip Norman, to Westinghouse Brake and Signal Company, Limited. Indicator mechanisms. 3,645,226, 2-29-72, Cl. 116-70.
- Mays, Ralph C. Attachment for removably supporting a partial denture to an adjacent natural tooth. 3,672,057, 6-27-72, Cl. 32-5.000.
- Mays, Shelly W., Jr.: *See*—
Edwards, James W.; Larrigan, Harry J.; and Mays, Shelly W., Jr., 3,665,851.
- Mays, William T.; and Mays, John C. Fluid transformer. 3,664,768, 5-23-72, Cl. 417-197.000.
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Cole, Ernest A.; Mayse, Weldon D.; and Watson, Frederick D., 3,701,723.
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- Watson, Frederick D.; and Mayse, Weldon D., 3,632,495.
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Anthony, Tad B., 3,635,318.
- Cotton, Curran D., 3,647,196.
- Cotton, Curran D., 3,685,626.
- Kaldenberg, Henry J., 3,692,053.
- Landwiler, William G., 3,704,170.
- Ross, Frank E., 3,659,314.
- Rotterring, Quintin N., 3,695,409.
- Smith, Thomas R., 3,635,055.
- Smith, Thomas R., 3,641,231.
- Smith, Thomas R., 3,651,579.
- Smith, Thomas R., 3,691,797.
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Hartmeister, Ruben J.; and Maytag, John Hardy, 3,665,853.
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Chattoraj, Shib C.; Lynch, Charles T.; and Mazdiyasi, Khodabakhsh, 3,634,477.
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Sharkey, Martin J.; and Mazoch, Charles J., 3,698,003.
- Mazor, Stanley: *See*—
Smith, William R.; Rice, Rex; and Mazor, Stanley, 3,647,348.
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Falcy, Bernard C.; and Mazuir, Rene, 3,686,855.
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Dym, Herbert; Mazza, Robert V.; and Segar, Lawrence P., 3,662,377.
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Mahlmann, James P.; Coogan, Joseph F., III; and Mazzaferro, Gene Alfred, 3,706,574.
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Brown, Gerald H.; and Mazzarella, Emil D., 3,671,310.
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Ciampa, Fred A.; Serafini, Angelo; and Mazzarella, Louis, 3,681,794.
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Golden, Richard L.; and Mazzella, Gerald, 3,679,751.
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Haucke, Paul A.; Rosenfeld, Seymour; Schwab, Ronald W.; and Mazzeo, Charles F., 3,664,173.
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Maxwell, Donald E.; and Mazzochi, Roger W., 3,646,484.
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Ciampa, Fred A.; and Mazzola, Sergio J., 3,645,647.
- Mazzoleni, Rosanna: *See*—
Cassinelli, Giuseppe; Cotta, Ernesto; Grein, Arpad; and Mazzoleni, Rosanna, 3,644,619.
- Mazzolini, Corrado: *See*—
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,635,925.
- Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,621.
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- Mazzoni, Renato J.: *See*—
Bowser, George H.; Shoop, Vernon A.; Pyzewski, Stanley J.; Mazzoni, Renato J.; and Bologna, John P., 3,669,785.
- Stewart, John L.; Mazzoni, Renato J.; and Schutrum, Lester F., 3,683,974.
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Mazzucato, Pietro; and Mazzucato, Gino, 3,645,766.
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- MB Associates: *See*—
Cochran, David L.; Deleray, Arthur L.; and Lehman, John P., 3,698,320.
- MB Associates, *mesne*: *See*—
Hoard, Charles T., 3,702,090.
- MBT Corporation: *See*—
Misch, Robert D.; and Daus, Donald A., 3,637,416.
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Frumerman, Robert; and Mc Adoo, John D., Jr., 3,658,996.
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Colgan, Charles E.; and Mc Ardle, Edward J., 3,641,659.
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Zwight, Daniel H.; and Balogh, Roy, 3,637,043.
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Bain, Peter James Stratford; and Mc Call, Ernest Bryson, 3,694,395.
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Figliola, Patsy J.; and Mc Callum, Douglas J., Jr., 3,662,781.
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Hall, John A., Jr.; and Mc Cann, John J., 3,692,388.
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Wheaton, Ellis G.; and Mc Cartney, Charles P., 3,652,336.
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Cook, Kenneth L.; and Mc Cartney, Thomas R., 3,654,854.
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Young, Carter R.; and Mc Casland, Leonard, 3,687,202.
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Starks, Charles M.; and Mc Claflin, Gifford G., 3,705,925.
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Grantham, Frederick W.; and Mc Clain, Edward L., 3,684,274.
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Herrington, Francis Walter; and Mc Clure, James D., 3,690,648.
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- Mc Collum, John D.: *See—*
Connolly, John F.; Flannery, Robert J.; and Mc Collum, John D., 3,699,020.
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Rains, Cloral O.; and Mc Cord, Donald M., 3,660,555.
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Coglianese, Fred A.; and Mc Corkle, John E., 3,703,482.
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Buckler, Ernest J.; Coulthart, Hugh K.; Mc Cracken, Nathan J.; and Marcinkowski, Mieczyslaw, 3,637,635.
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Gasner, William L., 3,683,980.
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Bailey, James L.; and Mc Cune, Robert F., 3,642,668.
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- Mc Cuskey, James R.: *See—*
Baugh, John C.; Koenig, John E.; and Mc Cuskey, James R., 3,682,350.
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Elliott, Curtis Homer, Jr.; and Mc Daniel, Carl Vance, 3,639,099.
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Brown, Stephen V.; Mc Donough, Thomas B.; and Shaffer, John W., 3,667,992.
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Wiley, Daniel E.; Mc Dougal, Harmon A.; and Turner, Allan L., 3,642,053.
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Murphy, George R.; Rehn, Glenn E.; and Plum, George L., 3,637,090.
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Keene, Derek K.; and Mc Elhare, John J., 3,700,060.
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- Mc Elroy, Roderick: *See—*
Peters, Ernest; and Mc Elroy, Roderick, 3,652,219.
- Mc Elvy, Howell T.: *See—*
Mac Daniel, Gene; and Mc Elvy, Howell T., 3,673,033.
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- Mc Farlane, Cyril Stephen: *See—*
Share, Nathan Norman; and Mc Farlane, Cyril Stephen, 3,689,657.
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- Mc Gann, Elton Y.: *See—*
Axelson, Carl A.; Hinves, John R.; Mc Gann, Elton Y.; and Johnson, Robert M., 3,701,319.
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Wolf, Robert L.; and Mc Gann, Rodney, 3,705,496.

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Wang, Chun-Shan; and Mc Gee, Thomas W., 3,692,793.
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Sharples, Allan; Rostron, Arthur John; and Mc Gibbon, Graeme, 3,676,688.
- Mc Gill, Howard L., to Schlumberger Technology Corporation. Well packer apparatus. 3,645,334, 2-29-72, Cl. 166-120.
- Mc Grady, Seamus: *See—*
Serrie, Shelagh; Mc Grady, Seamus; and Bloomer, Richard, 3,680,229.
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Hartle, Robert J.; and Mc Grath, Joseph J., 3,702,299.
- Mc Guire, Robert J.: *See—*
Fareri, Elizabeth L.; Mc Guire, Robert J.; and Strange, Harold O., 3,652,644.
- Mc Henry, Howard Thomas: *See—*
Ross, Earl Warren; and Mc Henry, Howard Thomas, 3,642,469.
- Mc Henry, Robert J.: *See—*
Hughes, Charles T.; and Mc Henry, Robert J., 3,657,190.
- Mc Ilvaine, Robert L.; and Kent, Roger E., to National Dust Collector Corporation. Gas scrubber. 3,656,279, 4-18-72, Cl. 55-240.
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McNamara, Bernard J.; Daniluk, Syl; and Nijhuis, Cornelis J., 3,636,677.
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Ohar, Wasyli; and Mc Intire, Elmer L., 3,662,724.
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- Mc Intosh, Lionel D.; and Weber, Daniel E. Vehicle exhaust emissions analyzer. 3,696,247, 10-3-72, Cl. 250-83.30h.
- Mc Intosh, Michael D., to Landis Tool Company, mesne. Noise immune flip-flop circuit arrangement. 3,673,434, 6-27-72, Cl. 307-247.000.
- Mc Intosh, Ronald C.: *See—*
Purdy, Haydn V.; and Mc Intosh, Ronald C., 3,668,694.
- Mc Intyre, Hubert L. Fishing float motor support. 3,665,534, 5-30-72, Cl. 9-2.
- Mc Intyre, John S.: *See—*
Harrod, John F.; Knight, Allan R.; and Mc Intyre, John S., 3,654,317.
- Mc Intyre, Maurice J., to Skagit Corporation. Lift truck with rotatable carriage. 3,688,929, 9-5-72, Cl. 214-78.000.
- Mc Jones, Robert W. Priority charging system. 3,653,394, 4-4-72, Cl. 137-114.
- Mc Kay, Edwin C., to Climate Conditioning Corporation. Method for fabricating elbow gores. 3,651,197, 3-21-72, Cl. 264-230.
- Mc Kee, Arthur G., & Company: *See—*
Pavilon, Stanley J., 3,638,684.
- Mc Keen, Leighton R., to Farah Manufacturing Company, Inc. Reciprocating motion control device. 3,688,715, 9-5-72, Cl. 112-219.00r.
- Mc Keithan, Wesley L., to Westinghouse Electric Corporation. High voltage current limiting protective device. 3,648,211, 3-7-72, Cl. 337-202.
- Mc Kendrick, Lorne J. Load balancer. 3,669,411, 6-13-72, Cl. 254-168.
- Mc Kenna, Robert P.; and Williamson, John E. Curtain rod, pulley case, and support combination. 3,653,091, 4-4-72, Cl. 16-94.
- Mc Kenzie, John, to Leesona Limited. Winding machine. 3,677,482, 7-18-72, Cl. 242-18.00r.
- Mc Kinley, Walter E.: *See—*
Webb, Halmar J.; and Mc Kinley, Walter E., 3,632,037.
- Mc Kinnell, John C.: *See—*
Hutchison, Stanley O.; and Mc Kinnell, John C., 3,637,021.
- Mc Kinnon, Eugene T.: *See—*
Johnsen, Eric C.; Mc Kinnon, Eugene T.; and Drutz, Alvin S., 3,649,781.
- Mc Kusick, Blaine Chase, to Du Pont de Nemours E. I., and Company. 2-(Substituted phenyl)-8H-pyrazolo-(5,1-a) isoindol-8-one. 3,700,689, 10-24-72, Cl. 260-310.00r.
- Mc Lain, Charles D., to Olin Corporation. Copper base alloy. 3,661,568, 5-9-72, Cl. 75-157.500.
- Mc Lallen, Dewitt L., Jr.: *See—*
Reistle, Carl E., III; Childers, Thomas W.; Burkhardt, Joseph A.; Mc Lallen, Dewitt L., Jr.; and Woolley, Carroll A., 3,653,435.
- Mc Larty, Jack Lowrie, to Universal Oil Products Company. Method for compensating for resin shrinkage in the production of a filament wound article. 3,669,782, 6-13-72, Cl. 156-84.000.
- Mc Larty, Shirley, to Cary Products, Inc. Louver construction. 3,701,311, 10-31-72, Cl. 98-110.000.
- Mc Laughlin, Bernard J.; Petri, George W.; and De Moor, Raymond J., to International Telephone and Telegraph Corporation. Wrought steel conduit bushings. 3,643,203, 2-15-72, Cl. 339-14.
- Mc Laughlin, John: *See—*
Wagner, Robert W.; and Mc Laughlin, John, 3,665,983.
- Mc Lean, Robert E., to Rival Manufacturing Company. Can opener with a hand lever removable from the frame by the position of same. 3,670,410, 6-20-72, Cl. 30-4.00r.
- Mc Lean, Robert E., to Rival Manufacturing Company. Electric can opener with removable hand lever and frame engaging pin assembly. 3,689,997, 9-12-72, Cl. 30-4.00r.
- Mc Leman, Alexander D., to British Steel Corporation. Apparatus for detecting objects. 3,665,202, 5-23-72, Cl. 250-237.00r.
- Mc Leod, Gerald L., to Itek Corporation. Photographic reflex process. 3,663,225, 5-16-72, Cl. 96-48.000.
- Mc Leod, John P. Grinding or polishing or glazing machine. 3,694,965, 10-3-72, Cl. 51-93.000.
- McLeod, Melvin Elliott; Deutschman, John Edward; Percival, Herbert Warren; and Spoel, Han, to Alcan Research and Development Limited. Recovery of metal from dross. 3,676,105, 7-11-72, Cl. 75-68.00r.
- Mc Lintic, William James, to British Lighting Industries Limited. Lighting system. 3,665,179, 5-23-72, Cl. 240-41.300.
- Mc Manamon, Joseph Thomas: *See—*
Hogya, Bernard James; and Mc Manamon, Joseph Thomas, 3,644,155.
- Mc Manus, Ann: *See—*
Rock, Edward M.; Loughman, Joseph F., Jr.; and Mc Manus, Ann, 3,670,872.
- Mc Manus, Ira J. Composite end connection for steel joists. 3,683,580, 8-15-72, Cl. 52-334.000.
- Mc Manus, Lynn S., to Baker Perkins Inc. Rack loading and unloading apparatus. 3,700,121, 10-24-72, Cl. 214-16.40c.
- Mc Millan, Edward Bellamy. Lattice aperture antenna. 3,633,206, 1-4-72, Cl. 343-754.
- Mc Millan, Robert L. Dual pull veterinary fetal extractor. 3,643,664, 2-22-72, Cl. 128-353.
- Mc Millan, William A., to Fishlove, H., & Co. Novelty and amusement faucet. 3,635,469, 1-18-72, Cl. 272-27.
- Mc Millan, William A., to Fishlove, H., & Co. Novelty and amusement container. 3,635,470, 1-18-72, Cl. 272-27.
- Mc Millen, Bobby E., to AMBAC Industries, Incorporated. Engine starter drive assembly. 3,690,188, 9-12-72, Cl. 74-7.00r.
- Mc Millin, John V.; and Miller, D. Larry, to Westinghouse Learning Corporation. Reflected light document reading head. 3,676,690, 7-11-72, Cl. 250-219.00d.
- Mc Mullen, Thomas J. Sickle bar mower. 3,633,346, 1-11-72, Cl. 56-17.6.
- Mc Nab, Ian Roderick, to International Research & Development Company Limited. Current transfer in homopolar machines. 3,681,633, 8-1-72, Cl. 310-178.000.
- Mc Nabney, John C., to Trane Company, The. Air distribution control. 3,690,548, 9-12-72, Cl. 236-1.00c.
- Mc Nair, William E.: *See—*
Leslie, Prystup J.; and Mc Nair, William E., 3,687,353.
- Mc Nalley, Gerald A.: *See—*
Tangue, Duane R.; and Mc Nalley, Gerald A., 3,692,004.
- Mc Namara, Albert C., Jr., to Esquire, Inc. Light reflector system. 3,701,898, 10-31-72, Cl. 240-103.00r.
- Mc Namara, Matthew F.: *See—*
Dacey, Paul F.; De Toma, Samuel; Hayes, Thomas; and Mc Namara, Matthew F., 3,673,712.
- Mc Namara, Thomas F.; and Malakoff, Meyer, to Warner-Lambert Company. Antimicrobial compositions containing 1,1'-hexamethylenebis [5-(2-ethylhexyl)biguanide]dihydrochloride and 4-chloro-2-hydroxyphenyl 2,4-dichlorophenyl ether. 3,639,632, 2-1-72, Cl. 424-36.
- Mc Namara, Thomas F.; and Winer, Richard A., to Warner-Lambert Company. Diagnostic method for periodontal disease. 3,691,018, 9-12-72, Cl. 195-103.50r.
- Mc Naney, Joseph T. Light beam information presentation control means. 3,636,837, 1-25-72, Cl. 95-4.5.
- Mc Neil, Daniel E., to Controls Switch, Inc., mesne. Lens assembly for indicator lights. 3,678,261, 7-18-72, Cl. 240-151.000.

Mc Neil, Raymond F., to Del Monte Corporation. Metal container with removable closure. 3,687,334, 8-29-72, Cl. 220-60.000.

Mc Neill, William H., to Sylvania Electric Products, Inc. Method of applying a radiation shield to a second anode button. 3,666,343, 5-30-72, Cl. 316-20.000.

Mc Nerney, Alfred J., to Sun Oil Company. Purification of aromatic carboxylic acids. 3,649,680, 3-14-72, Cl. 260-524.

Mc Nulty, John G.: See—
Hay, Russell G.; Mc Nulty, John G.; and Walsh, William L., 3,686,274.

Mc Pherson, Donald F., to Xerox Corporation. Sheet feeding mechanism centering device. 3,647,207, 3-7-72, Cl. 271-61.

Mc Pherson, Donald F., to Xerox Corporation. Paper cassette loading device. 3,664,663, 5-23-72, Cl. 271-61.

Mc Pherson, Wilson W. Apparatus for cooling air. 3,705,479, 12-12-72, Cl. 55-223.000.

Mc Quade, John E., Jr., to Esso Research and Engineering Company. Method of forming high pressure decorative laminates having registered color and embossing. 3,661,672, 5-9-72, Cl. 156-220.000.

Mc Queen, James T., 50% to Rush, George L. Simulated golf game. 3,638,944, 2-1-72, Cl. 273-87.

Mc Queen, John; and Minuttillo, Leonard D., to Griffith Electronics, Inc. Convergence assembly. 3,689,791, 9-5-72, Cl. 313-77.000.

Mc Queen, Norman: See—
Ross, Howard R.; Goodrich, Lloyd D.; and Mc Queen, Norman, 3,696,753.

Mc Rae, Wayne A., to Ionics, Incorporated. Process for controlling the pH of a sulfur dioxide scrubbing system. 3,654,103, 4-4-72, Cl. 204-92.

Mc Vay, Robert D.: See—
Maurer, Robert F.; Mc Vay, Robert D.; and Hummel, Donald L., 3,669,581.

Mc Voy, David S., to Coaxial Scientific Corporation. Channel monitoring system for audience survey purposes. 3,703,684, 11-21-72, Cl. 325-31.000.

Mc Whorter, Daniel M., to Kendall Company, The. Surgical drainage tube. 3,683,930, 8-15-72, Cl. 128-349.000.

Mc Williams, Joseph E. Apparatus for loading bagged mail from a loading dock into a highway vehicle. 3,651,963, 3-28-72, Cl. 214-6.

McGraw Edison Company: See—
Jablonski, Edward R., 3,654,453.

MCA Technology, Inc.: See—
Broadbent, Kent D., 3,658,954.
Johnson, Keith O.; and Broadbent, Kent D., 3,670,114.

McAda, Richard Bernie, to Dow Chemical Company, The. Polyolefin-ethylene/ester copolymer blend compositions. 3,663,663, 5-16-72, Cl. 260-897.

McAdams, Hugh P., Jr., to Litton Precision Products, Inc. Fault monitor for use within a synchro torque system. 3,641,532, 2-8-72, Cl. 340-198.

McAdoo, Charles R., Jr.: See—
Gordon, Hershel; and McAdoo, Charles R., Jr., 3,673,346.

McAdoo, Charlotte M.: See—
McAdoo, Harold L., 3,654,703.

McAdoo, Harold L., to McAdoo, Charlotte M. Dental impression tray. 3,654,703, 4-11-72, Cl. 32-17.

McAdow, Walter R., to Mobil Oil Corporation. Metallizing coating compositions containing coated metal flakes. 3,692,731, 9-19-72, Cl. 260-32.80r.

McAdow, Walter R., to Mobil Oil Corporation. Metallizing coating compositions. 3,697,070, 10-10-72, Cl. 106-290.000.

McAfee, Silas E.: See—
Brazell, Virgil T., 3,633,304.

McAlister, Donald R.: See—
Kircher, Charles E., Jr.; McAlister, Donald R.; and Brothers, Doris Le Roy, 3,691,240.

McAlister, Roy E. Dental drill. 3,646,678, 3-7-72, Cl. 32-26.

McAlister, Roy E. Vapor pressurized hydrostatic drive. 3,648,458, 3-14-72, Cl. 60-51.

McAlister, Roy E. Microwave puffing of cereal grain and products made therefrom. 3,682,651, 8-8-72, Cl. 99-83.000.

McAllister, Edward W.: See—
Allen, Paul V.; and McAllister, Edward W., 3,681,997.

McAllister, George F., Jr., to Ajax Flexible Coupling Co., Inc. Method and apparatus for conveying and separating materials. 3,655,045, 4-11-72, Cl. 209-379.

McAllister, John H., to Textronix, Inc. Apparatus for making light pipes. 3,694,291, 9-26-72, Cl. 156-431.000.

McAllister, Lewis L.; and Popek, Wencil D., to Collins Radio Company. Automatic processing equipment for microelectronic circuits. 3,668,750, 6-13-72, Cl. 29-33.00m.

McAllister, William A., to Westinghouse Electric Corporation. Calcium gallate composition activated by manganese and method of preparation. 3,632,522, 1-4-72, Cl. 252-301.4.

McAllister, William A.; and Sausville, Joseph W., to Westinghouse Electric Corporation. Zinc-magnesium silico-germanate phosphor composition and method of preparing same. 3,644,212, 2-22-72, Cl. 252-301.6.

McAlphine, John F.: See—
Richie, Edward H.; and McAlphine, John F., 3,681,160.

McAlpin, Robert, Sir, & Sons Limited: See—
Eyre, Brian; and Bland, John, 3,671,075.

McAlpin, Silvan E., to Mobil Oil Corporation. Transient damper for pneumatic sound source employing an electromagnet for controlling its release valve. 3,647,019, 3-7-72, Cl. 181-5.

McAlpin, Silvan E., to Mobil Oil Corporation. Depth sounder digitizer. 3,673,554, 6-27-72, Cl. 340-3.00r.

McAlvay, John C., to Webster Electric Company, Inc. Combined tape lifting and capstan drive engagement mechanism. 3,689,076, 9-5-72, Cl. 274-4.00d.

McAnally, William J., III, to United Aircraft Corporation. Variable compression means for a rotary engine. 3,637,332, 1-25-72, Cl. 418-159.

McAnd, Inc.: See—
Anderson, Robert Frank, 3,633,395.

McAndrew, France B.; Polly, George W.; and Heinz, Walter E., to Celanese Corporation. Process for the production of oxymethylene copolymers. 3,641,192, 2-8-72, Cl. 260-823.

McAndrew, Francis B.: See—
Heinz, Walter E.; and McAndrew, Francis B., 3,686,142.

McAninch, Herbert A.; and Underwood, Herbert N. Hydraulic transmission including temperature controlled orifice. 3,688,982, 9-5-72, Cl. 236-93.000.

McArdle, Leslie Arthur: See—
Leigh, Thomas; and McArdle, Leslie Arthur, 3,658,967.

McArn, Angus H. Fluoroplastic encapsulated electrical resistance heaters. 3,663,799, 5-16-72, Cl. 219-523.

McArthur, Colin S.; and Hester, Benny L., to Reynolds, R. J., Tobacco Company. Knitting machine defective needle detector. 3,659,437, 5-2-72, Cl. 66-157.

McArthur, Ralph F.; and Geurts, Melle F., to Kobe, Inc. Fluid operated pump assembly with tandem engines. 3,653,786, 4-4-72, Cl. 417-404.

McArthur, Ralph F.; Kardoes, Max T.; and Geurts, Melle F., to Kobe, Inc. Hydraulic intensifier. 3,659,967, 5-2-72, Cl. 417-397.

McArthur, Ralph F.; and Geurts, Melle F., to Kobe, Inc. Reverse circulation fluid operated pump system. 3,687,573, 8-29-72, Cl. 417-358.000.

McArthur, Rulon D. Adjustable accelerator foot pedal. 3,631,739, 1-4-72, Cl. 74-513.

McAtee, Jon R., to Microdyne Corporation. Microwave varactor-tuned resonator for preselector. 3,703,689, 11-21-72, Cl. 333-82.00b.

McAuley, Edward G., to Procter & Gamble Company, The. Article assembly employing integrated, preoriented detail-defining members. 3,634,965, 1-18-72, Cl. 46-93.

McAuliffe, Gerald K., to International Business Machines Corporation. Fourier digital filter or equalizer and method of operation therefor. 3,679,882, 7-25-72, Cl. 235-156.000.

McAuliffe, Gerald K., to North American Rockwell Corporation. System for phase locking on a virtual carrier. 3,701,948, 10-31-72, Cl. 325-329.000.

McAuliffe, Gerald N., to Outboard Marine Corporation. Seat latch mechanism. 3,692,270, 9-19-72, Cl. 248-384.000.

McAusland, Robert R., to Anderson & Thompson Ski Co., Inc. Boot holder. 3,653,565, 4-4-72, Cl. 224-5.

McAvoy, Thomas R.: See—
Legacy, Lloyd W.; McAvoy, Thomas R.; and Nelson, Leonard E., 3,688,453.

McBean, John W.: See—
Hokanson, Lyle W.; and McBean, John W., 3,667,784.

McBee, Ralph C.: See—
Valentine, James R., Jr.; and McBee, Ralph C., 3,644,160.

McBratnie, Karen Ann, to Hueschen, Gordon. Instructional device for children with learning disabilities. 3,690,020, 9-12-72, Cl. 35-37.000.

McBride, Albert James: See—
McDonald, Dean Barry; and McBride, Albert James, 3,685,405.

McBride, Frank J.; and Lindsley, Carl Robert. Apparatus for instructing data system machine operators in the encoding of source documents. 3,701,975, 10-31-72, Cl. 340-172.500.

McBride, Herbert J. Paint brush holder. 3,668,731, 6-13-72, Cl. 15-146.000.

McBride, John A. Soy bean processing machine. 3,685,429, 8-22-72, Cl. 99-235.00r.

McBride, John A. Soy bean processing machine. 3,685,430, 8-22-72, Cl. 99-235.00r.

McBride, Lyle E., Jr.: See—
Hirsbrunner, Hans G.; and McBride, Lyle E., Jr., 3,644,864.

McBride, Lyle E., Jr., to Texas Instruments, Incorporated. A.C. motor control system utilizing a selectively energizable semiconductor switch means. 3,643,142, 2-15-72, Cl. 318-221.

McBride, Lyle E., Jr.; and Pimentel, Daniel R., to Texas Instruments, Incorporated. Motor control system utilizing a high inductance capacitor. 3,663,876, 5-16-72, Cl. 318-221.

McBride, Richard T., to Du Pont de Nemours, E. I., and Company. Laminar structures of polyimide and fluorocarbon polymers. 3,676,566, 7-11-72, Cl. 174-36.000.

McBurnett, James R., to Allis-Chalmers Manufacturing Company. Filter bypass indicator. 3,644,915, 2-22-72, Cl. 340-239.

McCabe, Francis J. Press. 3,690,207, 9-12-72, Cl. 83-627.000.

McCabe, Howard R., to Armstrong Cork Company. Apparatus for applying adhesive to the edges of a slit tube. 3,691,990, 9-19-72, Cl. 118-35.000.

McCabe, John M.: See—
Hunter, Walker F.; and McCabe, John M., 3,702,250.

McCabe, John Stanton, to Chicago Bridge & Iron Company. Multiple-layer vessel with crack arresting welded joint. 3,664,379, 5-23-72, Cl. 138-143.

McCabe, John Stanton, to Chicago Bridge & Iron Company. Dynamic boat fendering system. 3,683,631, 8-15-72, Cl. 61-46.000.

McCabe, Leo J., to Mobil Oil Corporation. Dehydrocondensed poly(organo) silicones. 3,664,957, 5-23-72, Cl. 252-49.600.

McCabe, Richard W.; and Johnson, Mark J., to Allegheny Ludlum Steel Corporation. Pretreatment of stainless steel for electroplating. 3,694,326, 9-26-72, Cl. 204-29.000.

McCabe-Powers Body Company: See—
Balogh, Roy, 3,643,815.

McCafferty, Robert F.; and Riggle, Gerald D., to Akron Standard, division of Eagle-Picher Industries, Inc. Tire bead handling apparatus. 3,690,989, 9-12-72, Cl. 156-403.000.

McCaffrey, Francis Hammet Garland; McIndoe, Jack Garnett; and Rigg, Herbert, to Canadian Industries Limited. Shotshell wad. 3,670,650, 6-20-72, Cl. 102-42.00c.

McCaffrey, Horace, Jr. Vibratory conveyor. 3,648,828, 3-14-72, Cl. 198-220.

McCahon, John O.; and Byrne, William J., to Smyth Manufacturing Company, mesne. Apparatus for conveying and treating folded book signatures and the like. 3,692,299, 9-19-72, Cl. 270-54.000.

McCain, Lawrence G., to Coleman Company, Inc., The. Lamp assembly. 3,671,739, 6-20-72, Cl. 240-122.000.

McCain Manufacturing Corporation: See—
McCain, William B.; and Cosgrove, James F., 3,664,655.

McCain, Robert L.: See—
Cook, William J.; and McCain, Robert L., 3,682,307.

McCain, Samuel B., to Vertec Corporation, Inc. Combined froth-pour spray system for resin foams. 3,690,556, 9-12-72, Cl. 239-112.000.

McCain, William B.; and Cosgrove, James F., to McCain Manufacturing Corporation. Caliper system for signature machines. 3,664,655, 5-23-72, Cl. 270-56.

McCaldin, James O.: See—
Mead, Carver A.; and McCaldin, James O., 3,650,823.

McCall Corporation: See—
Bunting, Charles W.; Fortman, William R.; and Ash, Albert H., 3,658,318.

McCall Corporation, mesne: See—
Bunting, Charles W.; Groeber, David P.; and Pettlo, Louis W., 3,668,032.

McCall, George L.: See—
Yohe, Robert A.; and McCall, George L., 3,636,283.

McCall, Marvin A., to Eastman Kodak Company. Preparation of hydroxyalkyl esters of aromatic acids. 3,647,750, 3-7-72, Cl. 260-475.

McCallister, Kenneth R.; and O'Neal, Thomas P., to Universal Oil Products Company. Reforming catalyst and method of manufacture. 3,654,184, 4-4-72, Cl. 252-442.

McCallum, Donald A., to International Harvester Company. Crop harvester platform. 3,672,134, 6-27-72, Cl. 56-14.400.

McCallum, Donald A., to International Harvester Company. Positive pressure feed wheel. 3,698,332, 10-17-72, Cl. 111-77.000.

McCallum, James E.: See—
Hancock, Roger Harvey Yorke; and McCallum, James E., 3,641,765.

McCamis, Marvin J.; and Gibson, George W., to United States of America, Navy. Electrical connector. 3,680,036, 7-25-72, Cl. 339-60.00m.

McCammon, Thomas A., to Morton-Norwich Products, Inc. Liquid paint booth deflocculant. 3,660,297, 5-2-72, Cl. 252-156.

McCammon, William L.; and Bishop, George E., to Firestone Tire & Rubber Company, The. Propulsion and processing apparatus for flowable materials. 3,684,458, 8-15-72, Cl. 23-285.000.

McCammond, Warren E.: See—
Krehbiel, Robert D.; and McCammond, Warren E., 3,659,325.

McCandless, Jiles Joe: See—
Day, Leon; and McCandless, Jiles Joe, 3,631,639.

McCandlish, Albanis P., to McGraw-Edison Company. Industrial dry cleaning cooker-still. 3,672,958, 6-27-72, Cl. 202-170.000.

McCann, David M.; and Hrincevich, John, Jr., to General Motors Corporation. Alloy for use in spark plug electrodes. 3,653,881, 4-4-72, Cl. 75-171.

McCann, Gerald P.; and Chase, Frank F., to McCann's Engineering & Mfg. Co. Liquid dispensing device with audible alarm. 3,647,115, 3-7-72, Cl. 222-39.

McCann, John J.: See—
Land, Edwin; Ferrari, Leonard A.; Kagan, Sholly; and McCann, John J., 3,651,252.

McCann, Joseph A., to General Electric Company. Unitary full wave inverter. 3,654,527, 4-4-72, Cl. 317-234.

McCann, Joseph A., to General Electric Company. Integrated semiconductor rectifiers and processes for their fabrication. 3,706,129, 12-19-72, Cl. 29-580.000.

McCann, Paul A., Jr.: See—
Thompson, Harold W.; Smith, Harry W.; and McCann, Paul A., Jr., 3,671,943.

McCann, Thomas A. Machine for lasting shoes. 3,668,727, 6-13-72, Cl. 12-15.

McCann, Thomas J., to Argus Chemical Corporation. Process for the preparation of acyl chlorides and benzaldehydes. 3,691,217, 9-12-72, Cl. 260-408.000.

McCann's Engineering & Mfg. Co.: See—
McCann, Gerald P.; and Chase, Frank F., 3,647,115.

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Reichenberger, Arthur M., 3,688,947.

McCanse, James E., to Hesston Corporation. Mower implement for garden tractor. 3,680,292, 8-1-72, Cl. 56-15.800.

McCard, Henry W. Cermet having lubricating properties and process. 3,639,639, 2-1-72, Cl. 117-71.

McCardell, Willard B., Jr.; Bissland, John D.; and Witek, Roman J., Jr., to Essex International, Inc. Electrical connector construction. 3,686,619, 8-22-72, Cl. 339-59.00m.

McCarroll, Raymond A., to Acme Precision Products, Inc. Wheel cover. 3,663,064, 5-16-72, Cl. 301-37.00r.

McCarron, John D.: See—
Fiore, Anthony N.; and McCarron, John D., 3,648,181.

McCarron, Kerwin Peter: See—
Knight, Sheldon; and McCarron, Kerwin Peter, 3,697,183.

McCarter, William L.: See—
Varrin, Andre J.; McCarter, William L.; and Geisler, Henry O., 3,667,793.

McCarthy, Charles D.: See—
Foley, Charles F.; McCarthy, Charles D.; and Rabens, Neil W., 3,647,218.

Foley, Charles F.; and McCarthy, Charles D., 3,669,452.

McCarthy, Edward J. Push pull roller or stationary type exercising apparatus. 3,664,667, 5-23-72, Cl. 272-83.

McCarthy, James F., to Susquehanna Corporation, The. Hot top liner and refractory ring combination for use with metal hot top casing. 3,660,121, 5-2-72, Cl. 106-38.25.

McCarthy, James F., to Susquehanna Corporation, The. Hot top liner and refractory ring combination for use with metal casing that is hot. 3,660,122, 5-2-72, Cl. 106-38.25.

McCarthy, James W.; and Opferman, Thomas F., to Northrop Corporation. Quick disconnect fluid-electrical coupler. 3,649,949, 3-14-72, Cl. 339-16.

McCarthy, John H.; and Wikman, Andrew O., to Ethyl Corporation. Manufacture of 1,2-dichloroethane. 3,642,921, 2-15-72, Cl. 260-659.

McCarthy, John J.: See—
Desmond, Richard J.; Fronczek, Edward J.; and McCarthy, John J., 3,649,803.

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McCarthy, John P.: See—
Smadar, Yechiel; Roth, Howard; and McCarthy, John P., 3,650,765.

McCarthy, John P., to Dymo Industries, Inc. Transfer printing addressing machine. 3,657,051, 4-18-72, Cl. 156-384.

McCarthy, Justin H., Jr., to International Business Machines Corporation. Synchronization verifying system. 3,652,987, 3-28-72, Cl. 340-146.1.

McCarthy, Kathleen. Apparatus for cleaning artificial eyelashes and method. 3,645,277, 2-29-72, Cl. 132-33.

McCarthy, Reginald J., to Pershke, Frank F., Limited. Core gripping and release device. 3,667,696, 6-6-72, Cl. 242-72.

McCarthy, Robert P.; and Matlock, Charles W., to Butler Manufacturing Company. Reinforced plastic panel and method of making the same. 3,674,620, 7-4-72, Cl. 161-133.000.

McCarthy, Roy B.: See—
Pinto, Peter J.; King, Donald M.; and McCarthy, Roy B., 3,643,705.

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- McCarty, Charles Bruce, to Procter & Gamble Company, The. Textile treating compounds, compositions and processes for treating textiles. 3,649,569, 3-14-72, Cl. 252-543.
- McCarty, Clyde W., to General Electric Company. Electronic digital clock power failure indicator. 3,678,499, 7-18-72, Cl. 340-336.000.
- McCarty, Frederick J.; and Palopoli, Frank P. Treatment of anoxia with 3,5, dialkyl hydantoins. 3,696,198, 10-3-72, Cl. 424-273.000.
- McCarty, Horace G.: *See—*
- Hurlburt, Joseph C.; McCarty, Horace G.; and Locati, Norman C., 3,698,167.
- Rowland-Hill, Edward William; and McCarty, Horace G., 3,669,125.
- McCarty, Horace G.; Anderson, Keith B.; and Stoltzfus, David D., to Sperry Rand Corporation. Bale wagon. 3,661,287, 5-9-72, Cl. 214-520.
- McCarty, Orin P., to General Electric Company. Monitor circuit for vacuum type electric circuit interrupter. 3,641,359, 2-8-72, Cl. 307-136.
- McCarty, Ralph W., to Extrude Home Corporation, mesne. Apparatus for abrading by extrusion and abrading medium. 3,634,973, 1-18-72, Cl. 51-2.
- McCarty, William J., to General Electric Company. Air-conditioner. 3,680,328, 8-1-72, Cl. 62-262.000.
- McCarty, William R.: *See—*
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- McCarty, William V., to General Electric Company. Gas turbine engine gear boxes. 3,631,735, 1-4-72, Cl. 74-405.
- McCasky, Harold O.: *See—*
- Palazzolo, Salvatore E.; and McCasky, Harold O., 3,707,296.
- McCaughy, Dennis G.: *See—*
- Farnsworth, Robert P.; and McCaughy, Dennis G., 3,641,422.
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- McCauley, James L.: *See—*
- Dunks, Clifford M.; and McCauley, James L., 3,703,922.
- McCauley, James L.; and Hollis, Joseph B. Method for the production of cast iron. 3,642,466, 2-15-72, Cl. 75-51.
- McCauley, John J., to Atlantic Richfield Company. Coal processing. 3,660,269, 5-2-72, Cl. 208-8.000.
- McCauly, Ronald J.: *See—*
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- McCauly, Ronald J.; and Bell, Stanley C., to American Home Products Corporation. 6-Carbonylamino penicillanic acid derivatives of substituted hydroxyamino-acetic acids, acetic alkyl esters and -acetanilides. 3,652,548, 3-28-72, Cl. 260-239.1.
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- McCauly, Ronald J.; and Conklin, George L., to American Home Products Corporation. N-phenethylacetamides and related compounds. 3,663,605, 5-16-72, Cl. 260-490.000.
- McCauly, Ronald J., to American Home Products Corporation. Dialkanoyloxyacetyl penicillanic acid derivatives. 3,678,032, 7-18-72, Cl. 260-239.100.
- McCauly, Ronald J.; and Conklin, George L., to American Home Products Corporation. Phenetlamides. 3,689,557, 9-5-72, Cl. 260-559.00b.
- McCauly, Ronald J.; and Bell, Stanley C., to American Home Products Corporation. Preparation of N-substituted 2-aminophenyl aryl ketone. 3,691,235, 9-12-72, Cl. 260-545.00r.
- McCaw, Thomas M. Differential. 3,703,108, 11-21-72, Cl. 74-713.000.
- McCawley, Frank X.; Wyche, Charlie; and Schlain, David, to United States of America, Interior. Electrodeposition of metallic boride coatings. 3,697,390, 10-10-72, Cl. 204-39.000.
- McCawley, Joseph F. Toilet seat guide. 3,646,620, 3-7-72, Cl. 4-237.
- McCay, Thomas E., to Com-U-Trol Corporation. Remote dialing telephone apparatus. 3,689,702, 9-5-72, Cl. 179-18.0be.
- McClaffin, Gifford G.: *See—*
- Culter, John C.; and McClaffin, Gifford G., 3,692,676.
- McClaffin, Gifford G., to Continental Oil Company. Separation of aluminum alkyls from olefins. 3,637,885, 1-25-72, Cl. 260-677.
- McClaffin, Gifford G., to Continental Oil Company. Method of obtaining solvent free aluminum alkyls and alkoxides. 3,642,850, 2-15-72, Cl. 260-448.
- McClain, Albert D., Jr.: *See—*
- Kidd, Thomas L., Jr.; and McClain, Albert D., Jr., 3,676,943.
- McClain, Charles R., to Rohr Corporation. Two part door mounting and operating mechanism. 3,695,331, 10-3-72, Cl. 160-187.000.
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- McClain, James E.; Parks, Arcus F.; and Scott, Howard L., to Esco Manufacturing Company. Fault indicating apparatus. 3,685,035, 8-15-72, Cl. 340-253.00a.
- McClain, John N.: *See—*
- Sullivan, Robert P.; and McClain, John N., 3,644,978.
- McClain, Keith D.: *See—*
- Kelly, Edward T.; and McClain, Keith D., 3,685,428.
- McClain, Richard B.: *See—*
- Krug, Newton J.; McClain, Richard B.; and Shoop, James D., 3,637,277.
- McClamrock, Grady L., to Western Electric Company, Incorporated. Process of assembling solid electrolytic capacitors using vibration step with both low and high frequency components. 3,689,989, 9-12-72, Cl. 29-570.000.
- McClancy, George M.: *See—*
- Wilkerson, Forrest R., Jr.; and McClancy, George M., 3,652,296.
- McClary, Joseph E., to Standard Brands Incorporated. Alpha purification of amylase. 3,642,582, 2-15-72, Cl. 195-66.
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- Clarke, Kenneth W.; Kinnsch, Donald L., and McClay, Archibald R., 3,657,911.
- McClellan, Bingham A., to McClellan Industries, Inc. Simulated pork rind fishing lure. 3,685,197, 8-22-72, Cl. 43-42.240.
- McClellan, Herbert L.; Dom, Harry A.; and Wisebaker, Robert E., to National Machinery Company, The. Forging machine transfer. 3,685,070, 8-22-72, Cl. 10-12.00t.
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- McClellan, Bingham A., 3,685,197.
- McClellan, James Richard: *See—*
- Allington, Trevor Richard; and McClellan, James Richard, 3,663,276.
- McClellan, John F., Sr. Remote dog-bark suppressor. 3,673,567, 6-27-72, Cl. 340-148.000.
- McClellan, Malcolm B.: *See—*
- Baker, Don R.; Fancher, Llewellyn W.; and McClellan, Malcolm B., 3,644,411.
- McClellan, Ralph E.; and Kirian, Christopher C., to Meilink Steel Safe Company. Deal drawer. 3,682,113, 8-8-72, Cl. 109-19.000.
- McClellan, Rudolph M., Jr.: *See—*
- McClellan, Rudolph M., Sr.; and McClellan, Rudolph M., Jr., 3,691,525.
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- Rausch, Karl W., Jr.; and McClellan, Thomas R., 3,642,964.
- McClellan, William R.; and Stiles, Alvin B., to Du Pont de Nemours, E. I., and Company. Conversion of methanol to formaldehyde using a bismuth molybdate on silica catalyst. 3,678,139, 7-18-72, Cl. 260-603.0hf.
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- Devitt, John L.; and McClelland, Donald H., 3,669,746.
- McClelland, Donald H.; Pankow, Herbert G.; and Wolcott, Edward O. Terminal seal electrochemical device. 3,704,173, 11-28-72, Cl. 136-135.00r.
- McClelland, Etheride R.: *See—*
- Meissner, Konrad E.; and McClelland, Etheride R., 3,675,695.
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- Meissner, Konrad E.; McClelland, Etheridge R.; and Kilner, George E., 3,643,717.
- McClelland, Robert G.; and Raymond, David W., to American Seating Company. Row folding seating structure. 3,667,171, 6-6-72, Cl. 52-9.000.
- McClelland, Walter B., to Teletype Corporation. Method and apparatus for memory and display. 3,704,389, 11-28-72, Cl. 315-84.500.
- McClenahan, William F. Plumbing installation jig. 3,701,172, 10-31-72, Cl. 4-252.000.
- McClenan, Warren G. Cable fitting for ship bulkheads. 3,649,054, 3-14-72, Cl. 285-158.
- McClendon, Glenn R.: *See—*
- Mitchell, Phillip G.; Hagans, Fredrick S.; Baker, James Noel; and McClendon, Glenn R., 3,646,514.
- McClernon, Francis H. Tractor attachment. 3,648,974, 3-14-72, Cl. 254-124.
- McClincy, Richard J.: *See—*
- Wilson, Benjamin John; McClincy, Richard J.; and Downing, James Herbert, 3,704,114.
- McClincy, Richard J.; Downing, James H.; and Wilson, Benjamin John, to Union Carbide Corporation. Furnace charge for use in the production of silicon metal. 3,660,298, 5-2-72, Cl. 252-188.3.
- McClincy, Richard Joseph; Downing, James Herbert; and Wilson, Benjamin John, to Union Carbide Corporation. Process for the production of elemental silicon. 3,704,094, 11-28-72, Cl. 423-350.000.
- McClintock, Eugene P., to Kirsch Company. Feed control for sewing operation. 3,683,830, 8-15-72, Cl. 112-121.150.
- McClinton, John. Safety pack-off for wells. 3,703,904, 11-28-72, Cl. 137-504.000.
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- Ryburn, Kenneth D.; McClone, Robert J.; and Fox, Charles H., 3,702,715.
- McCloskey, Albert R.; and Rozentals, Alfred, to Heim Universal Corporation. Self-aligning bearing. 3,656,821, 4-18-72, Cl. 308-72.
- McCloskey, Chester M.; Rees, Donald E.; and Hoff, George, to Norac Company, Inc., The. Non-hazardous ketone peroxide polymerization initiators. 3,649,546, 3-14-72, Cl. 252-186.
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- McCloud, George Randall, to International Telephone and Telegraph Corporation. Switch. 3,646,294, 2-29-72, Cl. 200-144.
- McClung, Clifford F. Fluid pump. 3,655,301, 4-11-72, Cl. 417-437.
- McClung, John S., Jr.: *See—*
- Brindley, Hanby S.; Buyers, John A., Jr.; Gerard, Turpin; and McClung, John S., Jr., 3,653,257.
- McClure, Glenn T.: *See—*
- Newell, George K.; and McClure, Glenn T., 3,653,729.
- McClure, Glenn T.; and Salton, Robert B., to Westinghouse Air Brake Company. Pneumatic-electric self-lapping control apparatus. 3,650,572, 3-21-72, Cl. 303-15.
- McClure, Glenn T., to Westinghouse Air Brake Company. Tread brake apparatus. 3,698,520, 10-17-72, Cl. 188-171.000.
- McClure, James D.: *See—*
- Herrington, Francis Walter; and McClure, James D., 3,642,274.
- McClure, James D.; and Slaugh, Lynn H., to Shell Oil Company. Direct production of esters from ethylene and methanol. 3,646,116, 2-29-72, Cl. 260-497.
- McClure, James H.; and McCrary, James W., to Materials Technology Corporation. Adjustable choke valve. 3,683,965, 8-15-72, Cl. 137-625.300.
- McClure, James H.; and McCrary, James W., to Materials Technology Corporation. Method of making a positive choke device. 3,686,732, 8-29-72, Cl. 29-157.00c.
- McClure, James N. Mobile variable head, hedge trimmer. 3,703,803, 11-28-72, Cl. 56-237.000.
- McClure, Orly Bob. Rock crusher. 3,662,963, 5-16-72, Cl. 241-186.
- McClure, William J., to Corning Glass Works. Lapping machine. 3,680,265, 8-1-72, Cl. 51-131.000.
- McCluskey, Jarvis G.: *See—*
- Wiesner, Karel; and McCluskey, Jarvis G., 3,687,937.
- McClusky, Stanley A. Two station receptacle and weighing apparatus. 3,700,054, 10-24-72, Cl. 177-184.000.
- McColl, Bruce J., to Owens-Illinois, Inc. Roundwood stump processor. 3,643,709, 2-22-72, Cl. 144-3.
- McColl, Bruce John. Feed device. 3,688,821, 9-5-72, Cl. 144-3.00d.
- McColl, Bruce John, to Owens-Illinois, Inc. Debarking and debranching apparatus. 3,704,733, 12-5-72, Cl. 144-2.00z.
- McCollough, John K.; Sanders, Grady H.; and Wethington, Charles A. Bobbin grasper. 3,633,959, 1-11-72, Cl. 294-67.
- McCollum, Anthony W.: *See—*
- Robinson, Alfred G., III; and McCollum, Anthony W., 3,692,801.
- McComas, Charles C.: *See—*
- Winfree, Jules P.; Todd, Herbert E.; and McComas, Charles C., 3,640,778.
- McComas, Jean W.: *See—*
- Glantz, Earl; and McComas, Jean W., 3,669,385.
- McCombie, Alan Keith: *See—*
- Molins, Desmond Walter; Williamson, David Theodore Nelson; McCombie, Alan Keith; and Stone, Horace Alexander, 3,633,735.
- Molins, Desmond Walter; and McCombie, Alan Keith, 3,665,933.
- McCombs, Frank P.: *See—*
- Flautt, Martin C.; Moran, Leland G.; and McCombs, Frank P., 3,676,287.
- McCombs, Howard L., Jr. Afterburner fuel manifold flow sensor and igniter control. 3,690,094, 9-12-72, Cl. 60-39.82r.
- McConaughy, Randall T.: *See—*
- Harvey, Donald M.; and McConaughy, Randall T., 3,672,267.
- Metzger, Lenard M.; Bresson, Richard J.; and McConaughy, Randall T., 3,662,659.
- McConc, Alan, Jr.: *See—*
- Camp, Albert T.; and McConc, Alan, Jr., 3,668,872.
- McConkey, Robert C.: *See—*
- Ford, John A., Jr.; McConkey, Robert C.; and Laakso, Thomas M., 3,677,754.
- McConnaughey, Paul W.: *See—*
- Strange, John P.; Nebash, Stanley P.; McInnes, Alexander C.; and McConnaughey, Paul W., 3,686,835.
- McConnaughey, Paul W., to Mine Safety Appliances Company. Smoke generating tube. 3,658,719, 4-25-72, Cl. 252-359.
- McConnaughey, Paul W., to Mine Safety Appliances Company. Determination of alcohol. 3,684,456, 8-15-72, Cl. 23-254.00r.
- McConnel, F. W., Limited: *See—*
- Griffith, Willard Denis; and Norton, Harry William, 3,636,970.
- McConnell, Alexander; and Bickel, Fay D., "Automatic" Sprinkler Corporation of America. Liquid proportioning device. 3,672,389, 6-27-72, Cl. 137-99.000.
- McConnell, Bobby D.: *See—*
- Clow, William L.; Benzing, Robert J.; and McConnell, Bobby D., 3,674,690.
- McConnell, Dan R.: *See—*
- Jones, William C.; and McConnell, Dan R., 3,662,140.
- McConnell, Edwin J., to Redington Counters, Inc. Add and subtract pawl action counter. 3,643,071, 2-15-72, Cl. 235-92.
- McConnell, Edwin J., to Redington Counters, Inc. Counter with thin flexible barrier. 3,686,481, 8-22-72, Cl. 235-92.00c.
- McConnell, Harden M.; and Ullman, Edwin F., to Synvar Associates. Oxazolidine-3-oxyl derivatives. 3,668,214, 6-6-72, Cl. 260-307.00f.
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- McConnell, Kennedy, to Interlake Steel Corporation. Load height sensor. 3,689,774, 9-5-72, Cl. 250-222.00r.
- McConnell, Leonard W. Method for selectively projecting refractory material against the lining of basic oxygen furnaces. 3,663,669, 5-16-72, Cl. 264-30.
- McConnell, Lorne D., to I-T-E Imperial Corporation. Cryogenic current limiting switch. 3,704,391, 11-28-72, Cl. 317-11.00c.
- McConnell, Richard L., to Eastman Kodak Company. Hot melt composition comprising maleated polyethylene and polyolefin. 3,658,948, 4-25-72, Cl. 260-897.
- McConnell, Robert G., to Honeywell Inc. Electrostatic recorder. 3,634,867, 1-11-72, Cl. 346-74.
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- McConnell, Robert L.: *See—*
- Bluthman, Robert G.; Goldsberry, Paul E.; McConnell, Robert L.; and Simpson, Jack W., 3,654,609.
- McConnell, Robert L.; and Simpson, Jack W., to International Business Machines Corporation. Visual editing system incorporating selectable letter spacing display and associated scale display. 3,648,271, 3-7-72, Cl. 340-324.
- McConnell, Robert W.: *See—*
- Barry, Henry F.; Hallada, Calvin J.; and McConnell, Robert W., 3,656,888.
- McConnell, Wayne V.: *See—*
- Lappin, Gerald R.; and McConnell, Wayne V., 3,644,485.
- McConnell, Wayne V.; Bond, James H.; and Russin, Nicholas C., to Eastman Kodak Company. Purification of bis(β -hydroxyethyl) terephthalate. 3,663,600, 5-16-72, Cl. 260-475.
- McConnell, William M.; Bradley, William H.; Chappel, Howard E.; Whitfield, George P.; and Carey, Raymond L., to Taylor-Wilson Manufacturing Company. Pipe coating apparatus. 3,701,336, 10-31-72, Cl. 118-423.000.
- McConville, Richard S. Dental dam. 3,662,466, 5-16-72, Cl. 32-34.
- McCord Corporation: *See—*
- Callahan, James J.; and Snow, John Proctor, 3,693,757.
- Melnik, William, 3,698,207.
- McCord Corporation, mesne: *See—*
- Gaudreau, Laurent R.; and McDowell, Floyd E., 3,680,629.
- Hulten, Richard E., 3,680,903.
- Khan, Obaidur Rahman, 3,681,291.
- McCord, Donald M., to Phillips Fibers Corporation. Surface treating apparatus. 3,681,969, 8-8-72, Cl. 73-7.000.
- McCord, Henry L.: *See—*
- Herman, Elvin E.; and McCord, Henry L., 3,680,099.
- Herman, Elvin E.; Lym, Vernon W.; and McCord, Henry L., 3,703,005.
- McCord, John B.: *See—*
- Theis, James V., Jr.; McCord, John B.; and Holly, Harry H., 3,707,336.
- McCord, Robert C., to Diamond International Corporation. Vacuum cup lifter for shell eggs. 3,656,794, 4-18-72, Cl. 294-64.
- McCorkle, David D., to Steredyne, Inc. Splicing tape feed mechanism. 3,664,903, 5-23-72, Cl. 156-506.
- McCormack, Ann M. Electronically timed animal feeder. 3,631,840, 1-4-72, Cl. 119-51.12.
- McCormack, Darrell W.: *See—*
- Fowlkes, George V.; Collins, Glenn E.; and McCormack, Darrell W., 3,641,962.
- McCormack, John F.: *See—*
- Schneble, Frederick W., Jr.; McCormack, John F.; and Zebliksy, Rudolph J., 3,635,758.
- Schneble, Frederick W., Jr.; Zebliksy, Rudolph J.; McCormack, John F.; and Williamson, John Duff, 3,650,777.
- Schneble, Frederick W., Jr.; McCormack, John F.; Zebliksy, Rudolph J.; Williamson, John Duff; and Polichette, Joseph, 3,672,986.
- McCormick & Company, Inc.: *See—*
- Karas, Albert J.; and Vey, John E., 3,655,405.

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Karas, Albert J.; Hall, Richard L.; and Stahl, William H., 3,663,238.
- McCormick, Harold E.: *See*—
Prasse, Herbert F.; and McCormick, Harold E., 3,690,686.
Prasse, Herbert F.; and McCormick, Harold E., 3,697,091.
- McCormick, Harold H.; and Schroeder, Robert F. Laminated magnetic signboard. 3,651,592, 3-28-72, Cl. 40-142.
- McCormick, James B., to Pelam Inc. Instrument to measure pulmonary function. 3,687,130, 8-29-72, Cl. 128-2.080.
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- McCormick, James Benjamin, to Miles Laboratories, Inc. Biological specimen processing and embedding apparatus. 3,674,396, 7-4-72, Cl. 425-117.000.
- McCormick, Jerry Robert Daniel; and Arnold, Nancy Hazlett, to American Cyanamid Company. 6-Methyl-1,3,10-11-tetrahydroxynaphthacene-2-carboxamide-5,12-quinone. 3,636,063, 1-18-72, Cl. 260-365.
- McCormick, Joseph I. Automatic bale hoist. 3,631,989, 1-4-72, Cl. 214-1.
- McCormick, Wayne A. Ice bag for treating athletes. 3,678,936, 7-25-72, Cl. 128-402.
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Peacock, Jack, 3,692,298.
- McCorquodale Colour Display Limited: *See*—
Reed, Kenneth James; McGilvray, Donald Ian; and Fletcher, Jack, 3,632,382.
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- McCown Laboratories, Inc.: *See*—
Sherman, Randy J.; and Hanson, Derald F., 3,651,256.
- McCoy, Betty May Cornell: *See*—
Merkner, Albert H.; Viccili, Alessandro; and McCoy, Robert C., 3,653,525.
- McCoy, Charles S.: *See*—
Haunschild, Willard M.; Jacobson, Robert L.; and McCoy, Charles S., 3,691,062.
- McCoy, Charles S.; and Haunschild, Willard M., to Chevron Research Company. Reforming process startup. 3,650,944, 3-21-72, Cl. 208-65.
- McCoy, David R., to Texaco Inc. Preparation of tri-n-butyl vanadate. 3,657,295, 4-18-72, Cl. 260-429.
- McCoy, Donald Walter: *See*—
Szumski, Stephen Aloysius; and McCoy, Donald Walter, 3,678,150.
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Martyn, Lloyd G., 3,684,905.
- McCoy, Frederic C.: *See*—
Knowles, Edwin C.; McCoy, Frederic C.; and Odell, Norman R., 3,660,183.
- McCoy, Frederic C.; and Swanson, Carl Loyal W., to Texaco Inc. Oil-solubilizing nitrogen-containing pesticidal compounds. 3,681,348, 8-1-72, Cl. 260-249.800.
- McCoy, J. C.; and Steele, James W., to United States of America, Atomic Energy Commission. Carbon fiber structure and method of forming same. 3,700,535, 10-24-72, Cl. 161-47.000.
- McCoy, Jerome D.: *See*—
Laymon, Marvin D.; McCoy, Jerome D.; and Schewe, Millard F., 3,696,369.
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- McCoy, John J., to Charter Manufacturing Company, Inc., *mesne*. Bail band assembly for intravenous liquid containers. 3,638,822, 2-1-72, Cl. 215-100.
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- McCoy, Lyle E.: *See*—
Kuechler, William L.; and McCoy, Lyle E., 3,634,026.
- McCoy, Lyle E. Fluid moving device. 3,653,791, 4-4-72, Cl. 418-153.
- McCoy, Mary Eloise; and Redin, Gunnar Sigurd, to American Cyanamid Company. Use of 4,6-diaminopyrimidine hydrochloride as an antifungal agent. 3,706,833, 12-19-72, Cl. 424-251.000.
- McCoy, Michael R.; and Walther, Terry R., to Electronic Arrays, Inc. Integrated circuit, random access memory. 3,665,422, 5-23-72, Cl. 340-173.
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Merkner, Albert H.; Viccili, Alessandro; and McCoy, Robert C., 3,653,525.
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Lasis, Evalds; and McCracken, Nathan John, 3,646,001.
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Daugherty, Hiram Gerald; Evers, William J.; and McCracken, Philip G., 3,639,399.
- McCrady, Samuel: *See*—
Trieste, Mario R.; Hall, Kenneth; and McCrady, Samuel, 3,653,305.
- McCrae, William: *See*—
Edwards, John A.; Fried, John H.; and McCrae, William, 3,674,816.
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McClure, James H.; and McCrary, James W., 3,683,965.
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McGaughey, Robert S.; and Simboli, Paul, 3,646,651.
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- McCuiston, Thomas J.: *See*—
Jelinek, Jerry G.; Duesenberry, Gary L.; and McCuiston, Thomas J., 3,656,769.
- McCulloch Corporation: *See*—
Bailey, Jay Richard, 3,643,759.
Burkett, Wilford B.; and Jackson, Robert V., 3,659,170.
Dooley, James L., 3,685,287.
Dooley, James Linville; and Harasta, Clarence John, 3,692,010.
Frederickson, Robert Eugene; Zimmerer, John Louis; and Bailey, Jay Richard, 3,652,074.
Frederickson, Robert Eugene; Zimmerer, John Louis; and Bailey, Jay Richard, 3,698,455.
Henry, Charles Frederick, 3,640,365.
Henry, Charles Frederick, 3,696,901.
Loop, Wendell Harold, 3,678,973.
Smith, Stephen Hagar, 3,700,997.
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Clavin, Edward A.; McCullough, Donald H.; and McCullough, David R., 3,705,506.
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Clavin, Edward A.; McCullough, Donald H.; and McCullough, David R., 3,705,506.
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Baumgartner, Richard J.; Lovgren, Jeffrey L.; and McCullough, John W., 3,662,341.
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Clark, Randall D.; Corman, Charles V.; and McCullough, Ralph E., 3,649,096.
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Barwick, Frederick E., III; Smith, Vernon C.; McCullough, Robert W.; and Hobgood, James B., 3,650,663.
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Davis, Paul D., Jr.; and McCullough, Thomas E., 3,644,825.
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Cassie, John V.; Lima, Philip J.; and McCully, Everette R., 3,646,417.
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McCully, Charles Roland, 3,704,221.
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Hickey, Lionel R.; and McCune, Ellsworth J., 3,659,109.
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Koch, Werner G.; and McCurley, Jack, 3,640,183.
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Pulliam, Joseph H.; and McCurnin, Thomas W., 3,701,138.
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Browne, Roger Drury; McCurich, Laurence Henry; Parkinson, John David; and Heffer, Edward Charles, 3,675,474.
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Magill, Peter J.; McCurry, Robert E.; and Speicher, Charles A., 3,651,498.
- McCusker, Edward Joseph, to American Cyanamid Company. Method for removing non-collagenous matter from mammalian gut. 3,649,163, 3-14-72, Cl. 8-94.11.
- McCusker, Joseph Henry: *See*—
Perlman Stuart Stanley; and McCusker, Joseph Henry, 3,683,211.
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Justice, Mary Ann; and McCutchan, Joseph W., 3,666,508.
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Maher, Philip Kenerick; Albers, Edwin W.; and McDaniel, Carl Vance, 3,671,191.
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Midulla, Guiseppe, 3,699,046.
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Young, Howard S.; Anderson, George C.; and McDaniel, Edgar L., 3,668,245.
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Libby, Charles C.; and McDaniel, Raymond C., 3,676,720.
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Hintze, Melvin M.; Mari, John P.; McDaniel, Roy F.; and Evel, Eddie A., 3,706,044.
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McDaniels, Thomas, 3,684,846.
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Andrews, Robert S., Jr.; and McDaniels, William C., 3,671,427.
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Green, Lawrence E.; and McDermott, William G., 3,698,132.
- McDermott, Clifton E.; and Steinicke, Darrell B., to Bio-Logics, Inc. Identification system. 3,660,916, 5-9-72, Cl. 40-21.
- McDermott, J. Ray, & Co., Inc.: *See*—
Shaw, Clarence W., 3,670,510.
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Dressel, Edwin J.; Petrie, Warren A.; Shaw, Clarence W.; Grinbergs, Janis; Isakson, John E.; and Adams, Martin C., 3,658,222.
- McDermott, Philip S.: *See*—
Lee, Robert E.; McDermott, Philip S.; and Pan, Edward S., 3,642,529.
- McDermott, William G.: *See*—
Green, Lawrence E.; and McDermott, William G., 3,698,132.
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- McDonagh, Kevin Patrick: *See*—
Madrazo, Charles Felix; Fulcher, Edwin Maxwell; and McDonagh, Kevin Patrick, 3,699,355.
- McDonald, A. Y., Mfg. Co.: *See*—
Schmitt, Joseph R., 3,679,239.
- McDonald, Benjamin J.; and McDonald, Dorothy H. Roller ski apparatus. 3,684,305, 8-15-72, Cl. 280-11.190.
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- McDonald, Dean Barry; and McBride, Albert James, to Cheney Extrusions (Australia) Limited. Extrusion moulding. 3,685,405, 8-22-72, Cl. 94-46.00r.
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- Guyaux, James R.; Le Duc, Donald; and McDonald, Dean T., 3,679,075.
- McDonald, Dorothy H.: *See—*
McDonald, Benjamin J.; and McDonald, Dorothy H., 3,684,305.
- McDonald, Duncan B.: *See—*
Emond, Armand J.; and McDonald, Duncan B., 3,635,430.
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- McDonald, Howard L.: *See—*
Gentry, Charles B.; Scanlon, Robert M.; Rumery, Jerome; McDonald, Howard L.; and Keeler, Larry G., 3,668,910.
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Vitter, Albert L., Jr.; and McDonald, Hugh G., 3,703,096.
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Ellis, Myron P.; Czubak, Albin S.; and McDonald, Keith A., 3,699,724.
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- McDonald, Leighton S.: *See—*
Crabb, Clarence R.; and McDonald, Leighton S., 3,641,169.
- McDonald, Patrick H.; Blake, Henry W.; Myers, Guy A.; Pugh, Claud E.; and Todd, Edward S., to United States of America, Army, mesne. High frequency viscoelastic vibrator. 3,633,403, 1-11-72, Cl. 73-15.6.
- McDonald, Quentin H.: *See—*
McDonald, Quentin H.; Panicki, Richard L.; Casavant, Roger M.; and Nowak, Ralph M., 3,649,074.
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- McDonald, Walter: *See—*
Zabroski, Frank; McDonald, Walter; and Seitel, Norbert J., 3,658,167.
- Zabroski, Frank; McDonald, Walter; Piano, Anthony P., Jr.; and Seitel, Norbert J., 3,658,168.
- McDonald, William G.: *See—*
Thomas, Raymond J.; McDonald, William G.; and Dunning, Walter B., 3,688,625.
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- McDonald, William K., to Teledyne, Inc. Columbium base alloy. 3,667,940, 6-6-72, Cl. 75-174.
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Anderson, Raymond H., Jr.; Rawe, Richard A.; and Whiteson, Bennett V., 3,667,107.
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- Arrance, Frank C.; and Rosa, Albert G., 3,647,554.
- Arrance, Frank C., 3,671,319.
- Arrance, Frank C., 3,703,413.
- Berger, Carl, 3,647,542.
- Boehringer, Wilfred E., 3,677,488.
- Bollman, Clifford J., 3,633,096.
- Burrows, Alan A.; and Lehde, Henry C., 3,648,229.
- Carr, William F.; and Moses, Sidney A., 3,633,456.
- Cathers, Richard T.; Douglass, William M.; Hess, Frederick D., Jr.; Morris, John; and Roberts, James E., 3,666,211.
- Dawson, James A., 3,675,949.
- De Steese, John G., 3,705,411.
- DeCardi, Pedro; Taylor, Carl S.; and Roberts, Geoffrey L., 3,680,885.
- Dervy, Aram J., 3,701,704.
- Dixon, William Paul; and Kendall, David N., 3,671,328.
- Dobbs, Richard A.; and Holmes, Richard N., 3,700,067.
- Donegan, Dennis J., 3,691,686.
- Dueker, James E., 3,693,013.
- Edge, Andrew F.; and Hayase, Masashi, 3,665,138.
- Farr, Alton E., 3,633,435.
- Froning, Herman D., Jr.; Hopkins, Dean F.; and Klevatt, Paul L., 3,637,167.
- Gasper, Kenneth A., 3,638,018.
- Grindon, John R., 3,634,673.
- Hanback, Francis J., 3,672,050.
- Harenberg, Harold L., Jr., 3,678,256.
- Jenny, Robert B., 3,704,843.
- Jones, Harvey W.; and Ryer, Dudley A., Jr., 3,698,742.
- Kelly, Earl K., 3,633,791.
- Kelly, Earl K., 3,700,139.
- Kent, Ronald E.; and Rothenberger, Alvin C., 3,670,545.
- Kleckner, Harold F., 3,699,682.
- Koenig, Jude H.; Schoeffel, James A.; Carron, Gene J.; and Walford, Lionel K., 3,663,812.
- La Roe, Emmett T., 3,677,506.
- Little, Jane, 3,699,847.
- Littman, Fred E., 3,642,773.
- Mason, Kurt E., 3,665,548.
- McDonnell, John D., 3,658,280.
- Mello, John F., 3,680,816.
- Moe, George, 3,671,318.
- Olsen, Larry C.; Seeman, Stephen E.; Griffin, Bobby I.; and Ambrose, Charles J., 3,706,893.
- Rapsilber, William E.; and Koenig, Richard G., 3,639,989.
- Rhoton, Ronald L., 3,699,696.
- Rosa, Albert G.; and Birrer, George W., 3,703,417.
- Schenbeck, Robert E., 3,698,665.
- Schroedter, Leonard, 3,634,914.
- Sherman, Gale K., 3,639,948.
- Sherman, Gale K., 3,664,598.
- Smatkr, Joseph S., 3,703,414.
- Strier, Murray P.; and Smatko, Joseph S., 3,661,645.
- Strier, Murray P.; and Smatko, Joseph S., 3,706,601.
- Teng, Robert N., 3,678,745.
- Thurston, Charles T., 3,667,223.
- Walker, James V., 3,655,208.
- Walker, James V., 3,698,728.
- Wheeler, Mildred S., 3,677,139.
- Zuleeg, Rainer; and Ranon, Uri, 3,701,043.
- McDonnell Douglas Corporation, mesne: *See—*
Arrance, Frank C., 3,661,644.
- Byrd, Norman R., 3,645,999.
- McDonnell, Gerald F.; and Freebairn, Hugh T., to Banana Control, Inc. Apparatus for ripening fruit and the like. 3,683,788, 8-15-72, Cl. 99-239,000.
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- McDonough, James O.: *See—*
Grossimon, Herbert P.; McDonough, James O.; and Roberge, James K., 3,670,180.
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- McDonough, Robert J.: *See—*
Markanian, Mark; and McDonough, Robert J., 3,662,236.
- McDonough, Robert M.: *See—*
Berenbaum, Arthur; and McDonough, Robert M., 3,699,453.
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- McDonough, Thomas B.: *See—*
Shaffer, John W.; and McDonough, Thomas B., 3,665,176.
- Shaffer, John W.; and McDonough, Thomas B., 3,699,021.
- McDonough, William H.: *See—*
Ivers, Richard J.; and McDonough, William H., 3,641,565.
- McDougal, Allan R.: *See—*

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- United States of America, National Aeronautics and Space Administration, 3,706,230.
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Wiley, Daniel E.; McDougal, Harmon A.; and Turner, Allan L., 3,707,182.
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Woolcock, Alan; McDougall, Ian Leich; and Barber, Anthony Clifford, 3,686,750.
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Barker, Sidney Alan; Somers, Peter John; and Epton, Roger, 3,702,804.
- McDowell, Blake, III: *See—*
Fisher, George Myles Cordell; Froehlich, Fritz Edgar; Levin, William; McDowell, Blake, III; and O'Boyle, Leonard Edward, 3,706,850.
- McDowell Electronics, Inc.: *See—*
McDowell, Robert Bruce, 3,704,219.
- McDowell, Floyd E.: *See—*
Gaudreau, Laurent R.; and McDowell, Floyd E., 3,680,629.
- McDowell, Francis C.: *See—*
Carty, Edward J.; and McDowell, Francis C., 3,678,079.
- McDowell, Glenn S.: *See—*
Saffo, John, Jr.; and McDowell, Glenn S., 3,653,491.
- McDowell, James Paul: *See—*
Masse, Michel Stephane; and McDowell, James Paul, 3,683,254.
- McDowell, Judson A.: *See—*
Frauenfelder, Lewis S.; and McDowell, Judson A., 3,653,061.
- McDowell, Lennie: *See—*
Osburn, Myron E., 3,670,983.
- McDowell, Maurice J.: *See—*
Abriss, Murray S.; and McDowell, Maurice J., 3,687,885.
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Budai, Robert E.; and McDowell, Philip R., 3,688,814.
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Ban, Thomas E., 3,668,077.
- Cheek, Edward E., 3,670,870.
- Mercer, James R., 3,656,406.
- McEachron, John C.: *See—*
Schindler, Edgar C.; and McEachron, John C., 3,701,451.
- McElderry, Charles E. Device for gripping and moving a felled tree. 3,643,847, 2-22-72, Cl. 226-186.
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Durso, August J.; Maurer, Frank C.; and McEnery, John F., 3,648,872.
- McEuan, Ronald H.: *See—*
- Waker, John; and McEuan, Ronald H., 3,645,817.
- McEuan, Ronald Hindmarch: *See—*
Walker, John; and McEuan, Ronald Hindmarch, 3,649,438.
- McEver, Robert M., Jr.: *See—*
Gulick, Ronald A.; and McEver, Robert M., Jr., 3,685,621.
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Higashi, Louis M.; and McEvers, Herbert R., 3,650,828.
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Merlino, Thomas R.; Flickinger, John H.; and McFadden, Russell T., 3,702,349.
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Hesler, Joseph P.; McFadyen, Robert J.; and Schlereth, Fritz H., 3,654,563.
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Schiefer, Paul J.; and McFarland, James D., Jr., 3,670,859.
- McFarland, James W.: *See—*
Conover, Lloyd H.; McFarland, James W.; and Austin, William C., 3,644,624.
- McFarland, James W., to Pfizer, Chas., & Co., Inc. Anthelmintic agents. 3,684,802, 8-15-72, Cl. 260-240,00e.
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Becker, Carl H.; Dell, Harold R.; French, Ballard D.; Hashiguchi, Masao; McFarland, Keith E.; and Wong, Herman, 3,654,624.
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Futch, Archer H., Jr.; and McFarland, Robert H., 3,657,542.
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Ammerman, George Edward; and McFarlane, William, 3,641,312.
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- McFee, James Hoffman: *See—*
- Bergman, John George, Jr.; and McFee, James Hoffman, 3,665,206.
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- McGahren, William James; Porter, John Norman; and Korshalla, Joseph Daniel, to American Cyanamid Company. 1-Hydroxy- and acetyloxy-3-(1-hexenylazoxy)-2-butanone. 3,647,776, 3-7-72, Cl. 260-143.
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- Axelsson, Carl A.; Hinves, John R.; and McGann, Elton Y., 3,672,300.
- McGann, Rodney, to Texaco Inc., mesne. Heat exchange. 3,638,719, 2-1-72, Cl. 165-164.
- McGarrity, William F., to National Steel Corporation. Low carbon high yield strength alloy steel. 3,676,108, 7-11-72, Cl. 75-123.00b.
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- McGarvey, Robert G.: *See—*
- Bakewicz, Frank J.; and McGarvey, Robert G., 3,690,722.
- McGary, Jacob H.: *See—*
- Parker, Robert W.; and McGary, Jacob H., 3,656,210.
- McGavic, John P.: *See—*
- Gordon, Colin C.; and McGavic, John P., 3,702,601.
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- Wang, Chun-Shan; and McGee, Thomas W., 3,636,024.
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- McGeoch, Robert R. Mobile patient lift. 3,656,192, 4-18-72, Cl. 5-81.
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- McGhee, Glenn E.: *See—*
- Cochran, David S.; and McGhee, Glenn E., 3,668,697.
- McGhee, John D.: *See—*
- Dell, Curtis G.; Janzen, Dennis W.; and McGhee, John D., 3,643,491.
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- Walters, Joseph J.; and McGibbon, Verdun R., 3,701,514.
- McGill, Charles H., to Monsanto Company. Device for producing uniform tow. 3,641,626, 2-15-72, Cl. 19-65.
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- Osika, Thomas F., 3,632,914.
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- Osika, Thomas F., 3,678,229.
- Osika, Thomas F., 3,681,556.
- Rader, James A., 3,667,821.
- McGill, Robert L., Jr.: *See—*
- Green, Norman; Greenhouse, Harold M.; Vergara, William C.; and McGill, Robert L., Jr., 3,641,372.
- McGillvary, Daniel R., to Firestone Tire & Rubber Company, The. Elastomeric articles free from reinforcing elements. 3,701,374, 10-31-72, Cl. 152-330.000.
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- Reed, Kenneth James; McGilvray, Donald Ian; and Fletcher, Jack, 3,632,382.
- McGinley, Emanuel J.; and Zuban, Joseph M. Heat sterilized, stable aqueous dairy drink. 3,684,523, 8-15-72, Cl. 99-63.000.
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- Berger, Leonard; Fitzpatrick, William E.; McGinley, James H.; Pfund, Adolf; and Schwartzberg, Ira G., 3,672,122.
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- Stout, Daniel W.; and McGinnes, Henry M., 3,693,718.
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- Carkhuff, Donald Wesley; and McGinty, Harry Charles, 3,659,072.
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- Goins, William C., Jr.; and McGlothlin, Bruce B., 3,675,717.
- Goins, William C., Jr.; and McGlothlin, Bruce B., 3,707,192.
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- McGlothlin, Raymond E.: *See—*
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- Early, James R.; Eyring, William M.; McGrath, Donald W.; and Takenaka, Toshio, 3,685,139.
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- Chow, Sui-Wu; Matzner, Markus; and McGrath, James E., 3,681,473.
- Matzner, Markus; and McGrath, James E., 3,657,385.
- Matzner, Markus; McGrath, James E.; Manyik, Robert M.; and Walker, Wellington E., 3,696,075.
- Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., 3,696,131.
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- Spaw, Eugene S.; McGrath, Paul F.; and Otto, Stanley W., 3,669,014.
- McGrath, Robert Paul: *See—*
- Lerner, Irwin; and McGrath, Robert Paul, 3,700,774.
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- McGraw, James Edward: *See—*
- Decker, Harvey David; McGraw, James Edward; and Barbour, Richard R., 3,632,488.
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- Angus, Alexander C., 3,706,852.
- Beasley, Silas V.; and Beam, Norman, 3,696,734.
- Beeley, Michael G.; Frisby, Paul W.; and Thompson, Richard D., 3,644,085.
- Beeley, Michael G.; and Thompson, Richard D., 3,696,523.
- Buckley, Norman A.; and Rasmussen, Peter D., 3,638,842.
- Dietz, John J., 3,643,093.
- Falvo, Vincent G., 3,671,689.
- Files, William C., 3,677,039.
- Fisher, John L., 3,634,800.
- Fister, Aloysius J., 3,644,861.
- Funk, Stanley T., 3,678,715.
- Gaia, Aldo J., 3,678,430.
- Gaven, Thomas J.; and Whitlock, Bruce N., 3,690,678.
- Happe, Reynold, 3,676,627.
- Happe, Reynold, 3,680,877.
- Heinrichs, Frank W., Jr.; Polasky, Alex F.; Honey, Charles C.; and Toothman, Lawrence R., 3,681,516.
- High, Richard A.; and Vesper, George J., 3,672,189.
- Jawelak, Melbourne G.; and Briggs, Elwin E., 3,634,640.
- Keitel, John C., 3,706,858.
- Knight, Erwin C., 3,657,813.
- Kobler, Richard; and Fagan, William F., 3,698,723.
- La Sota, Leo S., 3,671,912.
- Larsen, Elmer L., 3,664,197.
- Lewis, Charles E., 3,668,511.
- Lovett, Donald S., 3,673,373.
- Lynch, John C., 3,680,359.
- McCandlish, Albanis P., 3,672,958.
- Mikulecky, Harvey W., 3,706,951.
- Murphy, Willard; and Beam, Norman A., 3,672,080.
- Payet, George Louis; and Forg, John H., 3,660,013.
- Pfaffenbach, Arthur, 3,646,701.
- Plichta, Michael J., 3,673,425.
- Radford, David L.; Beeley, Michael G.; and Sackett, William E., 3,632,041.
- Reeder, William R.; and Sadler, Fred S., 3,707,692.
- Riebs, Richard E., 3,662,220.
- Riebs, Richard E.; and Kohlman, Curtis J., 3,668,509.
- Riebs, Richard E., 3,673,495.
- Steffensen, Einar V.; Orshich, John; and Steffensen, John, 3,649,362.
- Thompson, Richard D., 3,664,046.
- Trelc, William F., 3,650,029.
- Van Dusen, Harold A., Jr., 3,660,650.
- Van Dusen, Harold A., Jr., 3,679,311.
- Wandler, Donald, 3,685,858.
- Weinfurt, William J., 3,675,237.
- Whitlock, Bruce N., 3,682,481.
- Zwilling, Martin I.; and Russell, Robert W., 3,691,498.
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- McKissick, John A.; and McGregor, Arvin D., 3,675,201.
- McGregor, Eugene R.: *See—*
- Sember, Joseph; and McGregor, Eugene R., 3,661,422.
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- McGregor, Matthew; and Burks, Albert Edward, 3,688,653.
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- McGrew, Jay L.; and Gille, John P., to Martin-Marietta Corporation. Capillary insulation. 3,675,809, 7-11-72, Cl. 220-9.0lg.
- McGroarty, Bryan M., 1/2% to Green, Wesley R. Method for waterproofing structures. 3,676,198, 7-11-72, Cl. 117-105.500.
- McGrogan, Ellwood Patrick, Jr., to RCA Corporation. Comparator circuit. 3,676,702, 7-11-72, Cl. 307-235.000.
- McGuckin, Hugh G., to Eastman Kodak Company. Process whereby a diazo containing material exhibits an imagewise change in triboelectric charging properties. 3,681,066, 8-1-72, Cl. 96-1.00r.
- McGuffie, Alan G., to Westinghouse Electric Corporation. Circuit breaker including ratchet and pawl spring charging means and ratchet teeth damage preventing means. 3,689,721, 9-5-72, Cl. 200-153.0sc.
- McGuinness, Allan S., to Maconomy (Proprietary) Limited. Side and end tipping loading machines. 3,651,971, 3-28-72, Cl. 214-768.
- McGuire, J. B., to Frazee, Ermal C. Ring tab for easy-open can. 3,672,535, 6-27-72, Cl. 220-54.000.
- McGuire, John S. Pipe joint system. 3,701,548, 10-31-72, Cl. 285-81.000.
- McGuire, John V., to Xerox Corporation. Combination controller-label form for article labeling systems. 3,641,319, 2-8-72, Cl. 235-61.12.
- McGuire, John V.; and Watson, Donald W., to Xerox Corporation. Selective article labeling control form. 3,647,602, 3-7-72, Cl. 156-528.
- McGuire, John V.; Watson, Donald W.; Enskat, Albert G.; and Artelt, Herbert C., Jr., to Xerox Corporation. Electrostatic label printer. 3,661,453, 5-9-72, Cl. 355-3.
- McGuire, Kenneth John, to Delaney Gallay Limited. Heat shields. 3,677,870, 7-18-72, Cl. 161-43.000.
- McGuire, Kenyon E. B.: *See—*
- Meyer, Bennett A.; and McGuire, Kenyon E. B., 3,648,145.
- McGuire, Marcus W.: *See—*
- Brawner, William H.; Gunsalus, Claude A.; and Rockwell, Lowell K., 3,698,337.
- McGuire, Mary H.; and Kapur, Chandra, to Personal Products Company. Removable protective liner for nether garments. 3,643,662, 2-22-72, Cl. 128-287.
- McGuire, Robert J.; Mitchell, Edward; and Pellegrini, John P., Jr., to Gulf Research & Development Company. Method of removing oil from the surface of water and composition therefor. 3,696,051, 10-3-72, Cl. 252-425.500.
- McGuire, Stephen E., to Continental Oil Company. Surface active agents. 3,636,016, 1-18-72, Cl. 260-402.
- McGuire, William C.: *See—*
- Johnson, James H.; and McGuire, William C., 3,647,118.

- McGuire, William L., to Bauer, Eddie, Inc., mesne. Sleeping bags. 3,639,931, 2-8-72, Cl. 5-343.
- McGuirk, Francis A., Jr., to Wagner Electric Corporation. Triggering circuits for gate-controlled full-wave alternating current semiconductor switches. 3,649,849, 3-14-72, Cl. 307-252.
- McGunigle, Richard D., to R&F West. Electrostatic transducer with vented diaphragm. 3,646,281, 2-29-72, Cl. 179-111.
- McGurty, James August: *See—*
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- McGusty, Elizabeth R.; Sutton, Blaine M.; and Walz, Donald T., to Smith Kline & French Laboratories, Inc. Anti-arthritis compositions comprising phosphine or phosphite gold halide complexes and methods of producing anti-arthritis activity. 3,676,554, 7-11-72, Cl. 424-198.000.
- McGwire, Thomas A.; and Racine, Emilio A., to Industrial Heater Co., Inc. Flexible heating unit with separately replaceable heating elements. 3,694,628, 9-26-72, Cl. 219-550.000.
- McHale, John J.; deceased (by McHale, Mary E.; administratrix), to Du Pont de Nemours, E. I., and Company. Butane diol-terephthalic-isophthalic-sebacic acid. 3,682,863, 8-8-72, Cl. 260-75.00r.
- McHale, Mary E.: *See—*
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- McHargue, Chuck Linwell: *See—*
Bodnar, Stephen John; McHargue, Chuck Linwell; and Anglin, Lam Carnell, Jr., 3,642,759.
- McHattie, John Alexander, to Marconi Instruments Limited. Signal generators. 3,668,572, 6-6-72, Cl. 333-81.00b.
- McHenry, Edwin John: *See—*
Hubbauer, Philip Clark; and McHenry, Edwin John, 3,678,178.
- McHugh, James D., to General Electric Company. Spiral groove face seals. 3,704,019, 11-28-72, Cl. 277-27.000.
- McHugh, James Francis, to Cornell-Dubilier Electric Corporation. Stacked mica capacitors. 3,651,387, 3-21-72, Cl. 317-258.
- McHugh, John; and Fowler, Gerald. Vehicle body heating and ventilating. 3,675,566, 7-11-72, Cl. 98-2.070.
- McHugh, John Francis: *See—*
Holovka, Charles, Jr.; Demchysyn, Bohdan; and McHugh, John Francis, 3,704,015.
- McHugh, Kenneth L.: *See—*
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- McHugh, Wilfred Lewis. Casket capsule. 3,654,676, 4-11-72, Cl. 27-2.
- McIlhenny, David J.: *See—*
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- McIlhinney, Allan E.: *See—*
Capes, Charles E.; McIlhinney, Allan E.; and Coleman, Richard D., 3,665,066.
- McIlrath, William P.; and Stougaard, Chris, to Rex Chainbelt Inc. Vibratory compactor. 3,635,132, 1-18-72, Cl. 94-48.
- McIlroy, Malcolm D., to Bell Telephone Laboratories, Incorporated. Machine processing of symbolic data constituents. 3,634,882, 1-11-72, Cl. 340-172.5.
- McIlroy, Peter, II, to Robroy Industries. Adjustable clamp for elongated articles with transverse locking means. 3,670,369, 6-20-72, Cl. 24-16.0pb.
- McIlvaine, Robert L., to National Dust Collector Corporation. Method and apparatus for removing sludge from liquid. 3,677,407, 7-18-72, Cl. 210-83.000.
- McIlvaine, Robert L.; and Kent, Roger E., to Environeering, Inc. Wet scrubber for contaminated gas. 3,685,261, 8-22-72, Cl. 55-240.000.
- McIlvaine, Robert W., to National Dust Collector Corporation. Method and apparatus for determining the difficulty of removing pollutants by wet scrubbing action. 3,668,825, 6-13-72, Cl. 55-21.000.
- McIlvenna, John F., Jr.: *See—*
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- McIlvin, Donald B., to USM Corporation. Volume control for molding machinery. 3,642,177, 2-15-72, Cl. 222-168.5.
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- McInerney, Edwin, to Western Mining Corporation Limited. Orientation device. 3,651,875, 3-28-72, Cl. 175-45.
- McInnes, Alexander C.: *See—*
Strange, John P.; Nebash, Stanley P.; McInnes, Alexander C.; and McConnaughey, Paul W., 3,686,835.
- McInnes, Alexander G. P., to International Research & Development Corporation. Vehicle secondary braking system with continuous belt. 3,703,223, 11-21-72, Cl. 188-5.000.
- McInnis, Andrew M.; Ballard, Louis M.; Rogers, Waldo I.; Kramer, David C.; and Nielsen, Robert A., to California Computer Products, Inc., mesne. Drafting table and method of producing same. 3,639,990, 2-8-72, Cl. 33-18.
- McInnis, George L. Flag storage and display device. 3,675,616, 7-11-72, Cl. 116-173.000.
- McIntee, James W.: *See—*
Hoch, Fred R.; and McIntee, James W., 3,693,238.
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Armstrong, Dale F.; McInteer, Bertus B.; Mills, Robert I.; Poiter, Robert M.; Robinson, Eugene S.; Rowley, John C.; and Smith, Morton C., 3,693,731.
- McIntier, Edwin Ralph, to Sweitzer, Richard G. Fluid-operated device. 3,665,815, 5-30-72, Cl. 92-107.000.
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McCurdy, Hugh R.; Rausch, Doyle W.; and McIntire, Hoy O., 3,677,749.
- Sagmuller, Joseph R.; Joyce, John F.; and McIntire, Hoy O., 3,688,544.
- McIntire, John M.; and Wicker, Thomas H., Jr., to Eastman Kodak Company. Alpha-cyanoacrylate adhesive compositions. 3,654,239, 4-4-72, Cl. 260-78.4.
- McIntire, Otis R.: *See—*
Rieke, James K.; Behr, Douglas Raymond; and McIntire, Otis R., 3,647,617.
- Wallis, Wilhelm E.; McIntire, Otis R.; Rieke, James K.; and Griggs, Max V., 3,705,041.
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Nystrand, Ernst Daniel; and McIntosh, Brian H., 3,667,468.
- McIntosh, Bruce C., to General Electric Company. Non-time indicating number correction circuit. 3,664,117, 5-23-72, Cl. 58-35.00w.
- McIntosh, Bruce Cromwell: *See—*
Emerson, Paul Gene; Thmhain, Hans Jurgen; and McIntosh, Bruce Cromwell, 3,664,116.
- McIntosh, Bruce Murray, to Imperial Chemical Industries Limited. Apparatus for false twisting yarn. 3,645,082, 2-29-72, Cl. 57-77.45.
- McIntosh, Duane E., to General Motors Corporation. Method and apparatus for decoding digital information. 3,691,553, 9-12-72, Cl. 340-347.0dd.
- McIntosh, Frank H., to Lectour Communications Corporation. Ear supported radio receiver. 3,644,833, 2-22-72, Cl. 325-361.
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- McIntosh, Harold A.; Randolph, Hollis L.; Chambers, William W.; and Graham, Marvin M., to Robertshaw Controls Company. Relay apparatus. 3,636,414, 1-18-72, Cl. 317-148.5.
- McIntosh, Harold A., to Robertshaw Controls Company. Modulating valve. 3,643,913, 2-22-72, Cl. 251-11.
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- McIntosh, Harold A.; Slocum, Gordon K.; and Rattan, William D. Pressure and temperature relief valve. 3,662,950, 5-16-72, Cl. 236-92.
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- McIntosh, Harold A.; and Slocum, Gordon K., to Robertshaw Controls Company. Mixing valve construction system and method. 3,684,168, 8-15-72, Cl. 236-12.00a.
- McIntosh, Ian Arthur; Bowers, Norman John; Bowers, Brian Alfred; and Miles, Bruce Robert, to Air Advantage (Australia) Pty., Limited. Mounting frame for rock breakers and rock implements. 3,682,253, 8-8-72, Cl. 173-23.000.
- McIntosh, John Robert: *See—*
Cole, Jack; and McIntosh, John Robert, 3,701,223.
- McIntosh Laboratory, Inc.: *See—*
Modafferi, Richard, 3,646,461.
- McIntosh, Maurice Dwight; deceased (by Central National Bank; executor), to Day-Glo Color Corporation. Pigment particles and method of producing the same. 3,642,650, 2-15-72, Cl. 252-301.2.
- McIntosh, Michael D., to Landis Tool Company, mesne. Control system for a machine tool. 3,655,957, 4-11-72, Cl. 235-151.11.
- McIntosh, Michael D., to Landis Tool Company, mesne. Control system for a machine tool. 3,665,279, 5-23-72, Cl. 318-571.
- McIntosh, Michael D., to Litton Industries, Inc. Positioning control system having memory for a machine tool. 3,691,357, 9-12-72, Cl. 235-151.110.
- McIntosh, Robert H.; and Hull, Ezekiel H., to Predicted Environments, Inc. Sanitizing plastic material. 3,705,235, 12-5-72, Cl. 424-83.000.

- McIntosh, Terence D.: *See—*
Howard, John; and McIntosh, Terence D., 3,644,481.
- McIntyre, Donald C.: *See—*
Dickey, Marcus P.; and McIntyre, Donald C., 3,644,784.
- McIntyre, Glenn Hazel, Jr.: *See—*
Gambale, James Richard; McIntyre, Glenn Hazel, Jr.; and Ranney, Fredrik J., 3,672,825.
- McIntyre, Hal Byers; and Hickey, Harvey Edward, to SW Industries, Inc. Device for determining finger hole positions in bowling balls. 3,696,514, 10-10-72, Cl. 33-174.00f.
- McIntyre, Hubert L. Motor propelled fishing float. 3,638,256, 2-1-72, Cl. 9-1.
- McIntyre, John Armin; and Saylor, Dwight Proffer. Radiation image amplifier and display comprising a fiber optic matrix for detecting and coding the radiation image pattern. 3,652,855, 3-28-72, Cl. 250-71.5.
- McIntyre, John F.: *See—*
Todd, Hoyt H.; McIntyre, John F.; and Lewis, Le Roy, 3,647,572.
- McIntyre, John S.: *See—*
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- McIntyre, John S., to Dow Chemical Company, The. 2H,5H-pyrano(4,3-b)-4(3H),5-diones. 3,634,458, 1-11-72, Cl. 260-343.5.
- McIntyre, John W. Granulator. 3,693,893, 9-26-72, Cl. 241-258.000.
- McIntyre, Kevin M. Radiological apparatus for measuring length which comprises two relatively movable radio opaque marks. 3,706,883, 12-19-72, Cl. 250-59.000.
- McIntyre, Matthew; and Goodfellow, Harry Edwin, to Jervis Corporation. Remote-control mirror system. 3,653,276, 4-4-72, Cl. 74-501.
- McIntyre, Maurice J.; and Newton, John R., to Skagit Corporation. Lift truck with horizontally slewable load carrier. 3,680,721, 8-1-72, Cl. 214-75.00r.
- McIntyre, Newman, to Christie, Manufacturing Company. Apparatus for packaging ribbon-like material. 3,707,063, 12-26-72, Cl. 53-116.000.
- McIntyre, William I.: *See—*
Jennings, Francis W.; Mulligan, William; Urquart, George M.; McIntyre, William I.; and Jarrett, William F. H., 3,657,415.
- McInvalle, George M. Packing removal. 3,650,164, 3-21-72, Cl. 81-8.1.
- McIver, Clement L., Jr., to Methods, Incorporated. Lathe turret. 3,677,110, 7-18-72, Cl. 74-813.001.
- McJones, Robert. Storage for compressors blowdown. 3,685,925, 8-22-72, Cl. 417-302.000.
- McJones, Robert W. Use of the heat of vaporization of a fuel as an air conditioning medium for a vehicle. 3,640,337, 2-8-72, Cl. 165-23.
- McJones, Robert W. Idle adjusting tool. 3,650,155, 3-21-72, Cl. 73-389.
- McJones, Robert W. Method and apparatus for rapidly changing the air-fuel ratio of an internal combustion engine from a lean condition to a rich condition. 3,650,254, 3-21-72, Cl. 123-120.
- McJones, Robert W. Method and system for reducing oxides of nitrogen and other pollutants from internal combustion engines. 3,650,255, 3-21-72, Cl. 123-120.
- McKague, Elbert L., Jr.; and Cooper, Walter C., Jr., to United States of America, Army. Safety load and temperature control system for microwave ovens. 3,663,783, 5-16-72, Cl. 219-10.55.
- McKay, Donald Edward. Disperse yellow dye of 5-(2-nitro-p-anisylazo) barbituric acid. 3,654,258, 4-4-72, Cl. 260-154.
- McKay, Donald Roderick; and Landucci, Louis, to Cominco Ltd. Purification of zinc sulphate solution. 3,649,180, 3-14-72, Cl. 23-125.
- McKay, Ian Guy, to Kee, Inc., mesne. Electrical arrangement for use in teaching machine. 3,634,950, 1-18-72, Cl. 35-5.
- McKay, Jerry Bruce, to Du Pont de Nemours, E. I., and Company. Multilobal multifilament yarn. 3,691,749, 9-19-72, Cl. 57-140.00j.
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- McKay, Nicholas D. Cartridge comb. 3,683,942, 8-15-72, Cl. 132-112.000.
- McKay, Peter Henry; and Legg, Morris James, to Plastic Coating Limited. Coating of articles with plastics material. 3,643,626, 2-22-72, Cl. 118-58.
- McKay, Robert Bruce, to Ciba-Geigy AG. Synthetic resin compounds of the phthalocyanine series. 3,691,116, 9-12-72, Cl. 260-18.00n.
- McKay, Robert S.: *See—*
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- McKay, Thomas L. Blind fastener with expandable collar. 3,657,955, 4-25-72, Cl. 85-70.
- McKean, Alexander L., to Phelps Dodge Copper Products Corporation. Corona-resistant solid dielectric cable. 3,643,004, 2-15-72, Cl. 174-36.
- McKean, Jack H., to Chemagro Corporation. Floating vent device. 3,672,533, 6-27-72, Cl. 220-44.00r.
- McKean, Jack H., to Baychem Corporation. Mobile container decontaminator and recycle metal reclaimers. 3,701,355, 10-31-72, Cl. 134-19.000.
- McKechnie, Donald B. Air cleaning apparatus. 3,646,729, 3-7-72, Cl. 55-278.
- McKechnie, John C., to United States of America, Navy. Film recorded velocity and dynamic gain control mechanism. 3,666,895, 5-30-72, Cl. 179-100.30d.
- McKechnie, John C., to United States of America, Navy. Automatic area of interest television optical probe focus apparatus. 3,699,248, 10-17-72, Cl. 178-6.800.
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- McKee, Arthur G., & Company: *See—*
Werner, Tage, 3,653,397.
- McKee Baking Company: *See—*
Fisher, Albert W., Jr., 3,704,664.
- McKee, Clyde M.: *See—*
McKee, Clyde M.; Provenzano, Andrew V.; and Scott, Ward, 3,640,608.
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- McKee, Fount E., to Delta-X Corporation. Apparatus for measuring the change in the thermal energy of a flowing fluid. 3,639,737, 2-1-72, Cl. 235-151.3.
- McKee, Francis G.; and Haddon, Roger C., to Aluminum Company of America. Bend-stretch apparatus for testing formable material. 3,636,758, 1-25-72, Cl. 73-100.
- McKee, Francis G.; and Haddon, Roger C. Method of forming heat exchanger fin collars. 3,693,568, 9-26-72, Cl. 113-118.00c.
- McKee, Herbert A.: *See—*
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- McKee, Horace L., to Mobil Oil Corporation. Process and system for control of fluids in water disposal surge tanks. 3,675,771, 7-11-72, Cl. 210-83.000.
- McKee, James R.; and Chastain, James K., to Ball Corporation. Building structure. 3,640,039, 2-8-72, Cl. 52-281.
- McKee, Lefler H., to Sylvania Electric Products, Inc. Color CRT screen exposure method. 3,667,947, 6-6-72, Cl. 96-36.100.
- McKee, Lewis W.: *See—*
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- McKee, Lewis W.; and Feest, Robert H., Jr., to Borden Corporation, The. Double row bearing. 3,640,593, 2-8-72, Cl. 308-196.
- McKee, Lewis W., to Barden Corporation, The. Stable bearing cage. 3,647,269, 3-7-72, Cl. 308-201.
- McKee, Robert G.; and Haase, Thomas W. Vehicle brake warning device. 3,689,880, 9-5-72, Cl. 340-52.00a.
- McKee, William E.: *See—*
Field, Lester M.; Walker, Richard A.; and McKee, William E., 3,640,712.
- McKeeman, William M.: *See—*
Carlson, Carl B.; McKeeman, William M.; and Price, William C., 3,699,528.
- McKeen, Leighton R., to Farah Manufacturing Company, Inc. Reciprocating motion control device. 3,688,713, 9-5-72, Cl. 112-219.00r.
- McKeever, Bruce T.: *See—*
Sloane, Edwin A.; McKeever, Bruce T.; and Meyer, Burtis W., 3,638,004.
- McKeithan, Wesley L.; and Astleford, John J., to Westinghouse Electric Corporation. Electrical apparatus including an improved high voltage current limiting protective device. 3,659,244, 4-25-72, Cl. 337-202.
- McKell, Lynn J., to Bell Telephone Laboratories, Incorporated. Signal generator. 3,699,477, 10-17-72, Cl. 331-142.000.
- McKellin, Wilbur H.: *See—*
Chapman, Douglas W.; McKellin, Wilbur H.; and Overley, R. Dean, 3,656,982.
- McKellin, Wilbur H., to Pennwalt Corporation. Carboxy-peresters. 3,660,468, 5-2-72, Cl. 260-488.
- McKelvey, Harold E.: *See—*
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- McKelvey, John B.: *See—*
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- McKelvey, Ralph E., to Timken Company, The. Roller bearings. 3,675,978, 7-11-72, Cl. 308-214.000.

- McKendrick, Lorne J. Hoist and balancing apparatus. 3,675,899, 7-11-72, Cl. 254-168.000.
- McKenna, John E. Polyhedral structural system and spatial enclosure. 3,646,718, 3-7-72, Cl. 52-79.
- McKenna, John Patrick; Keeling, Richard J.; and Lauersdorf, Duane H., to Sola Basic Industries, Inc. Metal melting and holding furnace. 3,688,007, 8-29-72, Cl. 13-20.000.
- McKenna, Patrick A.: *See—*
Doessel, James H.; and McKenna, Patrick A., 3,647,211.
- McKenna, Walter J. Absorbent crotch pad. 3,683,910, 8-15-72, Cl. 128-159.000.
- McKenney, Gordon M., Jr.: *See—*
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- McKenney, Robert Lee, Jr.; and Block, Jacob, to Grace, W. R., & Co. Process for preparing improved carbide microspheres from ion exchange resins. 3,673,101, 6-27-72, Cl. 252-301.10r.
- McKenzie, Benjamin L. Artificial fishing lure. 3,680,247, 8-1-72, Cl. 43-42.170.
- McKenzie, Eugene L. Glare-free coating compositions comprising hollow microspheres and solid crush-resistant particles. 3,642,675, 2-15-72, Cl. 260-22.
- McKenzie, James G. Chromatic harmonica. 3,674,910, 7-4-72, Cl. 84-377.000.
- McKenzie, Michael William: *See—*
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- McKenzie, William A. Smoke pollution eliminator. 3,667,193, 6-6-72, Cl. 55-227.
- McKeon, James E.: *See—*
Rick, Edward A.; McKeon, James E.; Fitton, Peter; and Argento, Benny J., 3,678,085.
- Trecker, David J.; and McKeon, James E., 3,678,096.
- McKeon, James E.; and Trecker, David J., to Union Carbide Corporation. Oxidation of cyclic amines to lactams. 3,634,346, 1-11-72, Cl. 260-239.3.
- McKeon, James Edward: *See—*
Fitton, Peter; and McKeon, James Edward, 3,632,824.
- McKeown, Cornelius J.: *See—*
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- McKeown, James E., to Bendix Corporation, The. Battery powered explosive system with relaxation oscillator in charging circuit. 3,671,842, 6-20-72, Cl. 320-1.000.
- McKeown, Lewis A. Paper machine broke control. 3,660,226, 5-2-72, Cl. 162-264.
- McKewen, John L., to Koppers Company, Inc. Method of and apparatus for chemically conditioning a particle-laden gas stream. 3,665,676, 5-30-72, Cl. 55-4.000.
- McKibben, Charles W.; and Robinson, Robert C., to Union Carbide Corporation. Bubble-blending particulate solids. 3,671,018, 6-20-72, Cl. 259-4.000.
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Taylor, Edward C.; and McKillop, Alexander, 3,689,559.
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Gwozdz, Joseph W., 3,695,418.
- McKinney, Merle B., to Pioneer Liquor Company, Inc. Hand truck. 3,679,225, 7-25-72, Cl. 280-47.180.
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Simons, Gerald F.; Lynch, Frederick W.; and McKown, Gary C., 3,664,234.
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- McLaughlin, Gladys M. Occlusive dressing. 3,659,599, 5-2-72, Cl. 128-157.
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Bajek, Walter A.; and McLaughlin, James H., 3,647,634.
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Bohn, Floyd O.; and McLaughlin, Russell A., 3,666,030.
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Pellino, William M.; Moenich, Raymond A.; McLean, Benjamin F.; and Hamblin, James C., 3,662,168.
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Bremner, James Duncan; and McLellan, Ian Alexander, 3,706,826.
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Sloan, Albert H.; McLelland, Jack I.; Mangels, Theodore F.; and Jantzen, Robert J., 3,683,521.
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Rutter, Carlton G.; Barry, Richard F.; and McLennan, Frank J., 3,707,617.
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Newsom, Raymond A.; McLeod, Richard Kenneth; and Ruland, Norman L., 3,702,811.
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McGrath, William W.; McLeod, Robert B.; and Reichle, Philip L., 3,653,041.
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Smith, Calvin S.; and McLeod, William J., 3,656,905.
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Brenneman, Roderick L.; and McLeon, Daniel M., 3,705,829.

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- McMahon, Herbert C.: *See—*
Tedeschi, Robert J.; and McMahon, Herbert C., 3,636,167.
- McMahon, John, to Dymo Industries, Inc. Embossing tool with self loading tape feed mechanism. 3,637,060, 1-25-72, Cl. 197-6.7.
- McMahon, Matthew A.: *See—*
Smetana, Richard D.; Chafetz, Harry; Arkell, Alfred; and McMahon, Matthew A., 3,642,831.
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- McMahon, Maurice T., Jr.: *See—*
Heilwell, Melvin F.; and McMahon, Maurice T., Jr., 3,633,100.
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Kolankowsky, Eugene; and McMahon, Robert F., 3,638,199.
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Law, Gabriel H.; and McMahon, Walter Michael, 3,653,930.
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Goldberg, Abraham A.; and McMann, Renville H., Jr., 3,655,908.
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Zukas, Robert C.; and McMath, Robert C., 3,649,258.
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Lee, Don N.; and McMennamin, Roy B., 3,700,998.
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- McMillan, Harry C., to Drexel Dynamics Corporation. Swing shift lift truck. 3,637,100, 1-25-72, Cl. 214-671.
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- McMillan, Norman: *See—*
Helms, Clifford J.; McMillan, Norman; and Papadopoulos, Stelios B., 3,700,855.
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Gustafson, Walter R.; McMillen, William H.; and Lippel, Lewis, Jr., 3,680,087.
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- McMorries, Edward Y.: *See—*
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- McMorries, Willie Mae, Mrs.: *See—*
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McMurry, Everett D., 3,654,949.
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Kohn, Gustave K.; and McMurtry, Randolph J., 3,686,398.
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Talge, Henry J.; McNair, Samuel L.; and Litman, Marvin W., 3,654,428.
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Tarneja, Krishan S.; Rossi, Vito A.; and McNally, James B., 3,666,574.
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Fekete, Frank; and McNally, John S., 3,674,727.
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Pate, Robert Lee, 3,679,063.
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Alper, Allen M.; Lewis, Ronald M.; and McNally, Robert N., 3,632,359.
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Hess, Ralph A.; and McNamee, James P., 3,698,053.
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Carson, John Robert, 3,707,478.
- Paragamian, Vasken, 3,644,372.
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- Plotnick, Janis, 3,692,773.
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Barry, Daniel J.; and McNeill, James J., 3,651,974.

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Colvin, Alex D.; McNitt, David H.; and Turner, Allen H., 3,679,930.
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Hansen, Eric Lowell; McNoldy, Larry Benjamin; and Pohl, Karl-Heinz, 3,705,377.
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Findlay, Campbell; and McQuade, Thomas, 3,661,077.
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Albright, John D.; and Myers, Raymond J., 3,645,330.
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Christoph, Walter P.; McQuitty, Jim B.; and Vendetti, Lewis A., 3,646,814.
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Menzies, James H.; and McSwiggin, Joseph R., 3,637,397.
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- McWhorter, Robert W.: See—
Danly, Donald E.; and McWhorter, Robert W., 3,649,511.
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- McWilliams, Michael R., to Material Control, Inc. Resiliently mounted conveyor belt cleaner. 3,656,610, 4-18-72, Cl. 198-230.
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Mruk, Walter F., 3,648,338.
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Benatar, Victor; and Johnson, Roy A., 3,677,389.
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- Cahill, Lysle D.; Feller, John; Marshall, William W.; Thomas, Edward R.; and Thompson, Harold P., 3,689,693.
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- Calvert, Rodney K.; and Scott, Dale Keith, 3,691,808.
- Calvert, Rodney K.; and Landrum, Charles Rabun, 3,699,666.
- Davis, Gerald T.; and Fettes, Robert A., 3,649,357.
- Davis, Gerald T.; and Fettes, Robert A., 3,653,945.
- Elrod, Ernest; and Viescas, Arthur B., 3,705,069.
- Forrer, Homer W., 3,669,306.
- Forrer, Homer W., 3,672,539.
- Forrer, Homer W., 3,674,136.
- Funkhouser, James B., 3,669,342.
- Gentry, Hermond G., 3,701,230.
- Houser, Philip H., 3,645,448.
- Houser, Philip H., 3,647,138.
- Houser, Philip H., 3,701,476.
- Lock, Joseph H., 3,648,921.
- Lock, Joseph H., 3,680,691.
- Lock, Joseph H., 3,701,181.
- Magnard, Pierre Lucien Antoine; and Lemaitre, Andre Jules Emile, 3,706,178.
- Martinez, Esteban; Davis, Gerald T.; and Van Brimer, Russell H., 3,661,304.
- Mathis, Garland V., 3,701,998.
- Neff, Robert G., 3,679,122.
- Robertson, John A., 3,656,171.
- Robertson, John A., 3,656,174.
- Taylor, Richard P., 3,655,530.
- Tucker, Roger A., 3,650,459.
- Wood, Prentice J., 3,640,448.
- Wood, Prentice J., 3,640,563.
- Wood, Prentice J., 3,661,297.
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Campbell, Kenneth N.; and Rivard, Donald E., 3,666,764.
- Corrigan, John R.; and Coates, William M., 3,641,058.
- Dykstra, Stanley J., 3,654,287.
- Larsen, Aubrey A.; and Uloth, Robert H., 3,660,487.
- Martin, Tellis A., 3,647,834.
- Weber, Abraham; Frossard, Jacques Jean; and Bouzard, Daniel, 3,644,417.
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- Wu, Yao Hua; and Lobeck, Walter G., 3,679,692.
- Wu, Yao Hua; and Ryan, Richard P., Jr., 3,679,702.
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- Mead Johnson & Company, mesne: See—
Weber, Abraham; and Frossard, Jacques Jean, 3,651,087.
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Robbins, Carl L., 3,678,884.
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Deutsch, Marshall E.; Mead, Louis W.; and Nagy, Zoltan, 3,657,541.
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Smith, Jerry L.; and Mead, Robert B., 3,689,775.
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Prot, Marcel, 3,687,281.
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Gough, John Richard Cox; Meaden, Geoffrey William; and Price, Michael Stuart Thomas, 3,668,284.
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Lemp, John, Jr.; and Meadors, Howard Clarence, Jr., 3,633,014.
- Meadors, William R.: See—
Matras, Walter F.; and Meadors, William R., 3,634,579.
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Bradshaw, Arthur; and Meadows, Frank William, 3,655,319.
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Parker, Levi Christy; Cooper, Thomas Allen; and Meadows, James Lawson, 3,691,246.
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Young, Harold K.; Wald, Herbert; Blanch, William O.; and Meadows, Lacy C., 3,653,544.
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Delmonte, John; Meadows, Paul L.; and Benavides, Augusto E., 3,703,425.
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Jones, Ewart Ray Herbert; Meakins, George Denis; and Clegg, Andres Samuel, 3,692,629.
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Chaparro, John J.; Ellis, Lowell V.; Meanor, Doyle W.; Morton, William D., Jr.; Richelmann, Bernd H.; Ross, George B.; and Toth, John E., 3,677,401.
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Rivkind, Leo E.; and Blum, Adolph, 3,667,687.
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Diaz, Juan C.; and Mears, Robert A., 3,652,725.

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 Measurement Science Corporation: *See—*
 Ensign, John D., 3,667,213.
 Measurex Corporation: *See—*
 Boissevain, Mathew G.; and Hill, Robert C., 3,697,755.
 Dahlin, Erik B., 3,641,349.
 Dahlin, Erik B., 3,650,891.
 Dahlin, Erik B., 3,681,595.
 Hill, Robert C.; French, John M.; and Toepfer, Richard E., 3,675,019.
 Meat Technology, Inc.: *See—*
 Vogel, Paul W.; and Silliker, John H., 3,705,813.
 Meauze, Georges D.: *See—*
 Sans, Claude M.; Leynaert, Jacky; and Meauze, Georges D., 3,652,036.
 Mebus, Henry R.: *See—*
 Procter, James F.; Mebus, Henry R.; De Young, Robert J.; and Coviello, Joseph, 3,701,176.
 Mebus, Henry R., to Harris-Intertype Corporation. Feeder and folder arrangement for signature gathering machine. 3,692,300, 9-19-72, Cl. 270-55,000.
 Mec-O-Matic, The: *See—*
 Ginsberg, Guenter A.; Pfleger, Robert K.; and Savage, Harry A., 3,680,985.
 Mecca Bros. Inc.: *See—*
 Grantham, Frederick W., 3,692,303.
 Mecca, Sebastian B., to Schuykill Chemical Company. Aluminum chlorohydroxy allantoin: propylene glycol complex. 3,632,596, 1-4-72, Cl. 260-299.
 Mecco, Jerry Michael, to American Cyanamid Company. Treatment for improving polypropylene dyeability. 3,707,351, 12-26-72, Cl. 8-100,000.
 Mech-El Industries, Inc.: *See—*
 Hermanns, Leonard S., 3,700,155.
 Hermanns, Leonard S., 3,700,156.
 Mechan, John L. Maintenance tool. 3,651,556, 3-28-72, Cl. 29-213.
 Mechanic, Bernard I., to Tiara Corporation. Pantograph machine movement control assembly. 3,664,230, 5-23-72, Cl. 90-13,100.
 Mechanical Enterprises Incorporated: *See—*
 Twyford, Robert H., 3,707,611.
 Mechanical Plastics Corporation, mesne: *See—*
 McSherry, Thomas W., 3,651,734.
 Mechanical Product Development Corporation: *See—*
 Lord, John Garvin, 3,656,246.
 Mechanical Technology Incorporated: *See—*
 Alger, Philip Langdon; and Wilson, Charles, 3,643,117.
 Hoogenboom, Leo, 3,657,581.
 Pan, Coda Hoong-Tao, 3,704,920.
 Mechel, Fridolin; and Kummermehr, Hans, to Grunzweig & Hartmann Aktiengesellschaft. Mineral wool made from silicate glass comprising iron oxides. 3,679,443, 7-25-72, Cl. 106-50,000.
 Mechlin, Wilmer: *See—*
 Heitzman, Charles J., 3,650,445.
 Mechling, Eli H. Frangible target apparatus. 3,667,420, 6-6-72, Cl. 118-6,000.
 Mechlowitz, Bela: *See—*
 Haas, Werner Erwin Louis; Adams, James E.; Flannery, John B., Jr.; and Mechlowitz, Bela, 3,666,947.
 Mechlowitz, Bela; Adams, James E.; and Haas, Werner Erwin Louis, to Xerox Corporation. Liquid crystal infrared imaging system having an undisturbed image on a disturbed background. 3,666,948, 5-30-72, Cl. 250-83.
 Mechlowitz, Blea: *See—*
 Haas, Werner Erwin Louis; Adams, James Ewing; and Mechlowitz, Blea, 3,671,237.
 Mechtron International Corporation: *See—*
 Pelletier, Robert A., 3,687,276.
 Meck, Robert M.: *See—*
 Evans, Theodore A.; Meck, Robert M.; and Thibodeau, Joseph E., 3,656,530.
 Meckbach, Heinrich: *See—*
 Glabisch, Dietrich; Bartl, Herbert; and Meckbach, Heinrich, 3,657,174.
 Meckel, Benjamin B.; and Lebduska, Robert L. Large diameter ion beam apparatus with an apertured plate electrode to maintain uniform flux density across the beam. 3,676,672, 7-11-72, Cl. 250-41,95.
 Meckel, Walter: *See—*
 Logemann, Heino; Meckel, Walter; and Muller, Erwin, 3,642,751.
 Ott, Karl-Heinz; Schuster, Herbert; Meckel, Walter; Dinges, Karl; and Muller, Erwin, 3,641,209.
 Meckel, Walter; and Konig, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Bis-(chloro-nitro phenoxy)-dialkylketones. 3,654,364, 4-4-72, Cl. 260-571.
 Meckel, Walter; and Muller, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Aromatic diamines containing ester groups and the production of polyurethane elastomers therefrom. 3,681,290, 8-1-72, Cl. 260-77,5am.
 Meckl, Heinz: *See—*
 Ohlschlager, Hans; Riester, Oskar; and Meckl, Heinz, 3,702,767.
 Sobel, Johannes; Himmelmann, Wolfgang; and Meckl, Heinz, 3,689,274.
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 Medawar, George E.; and Holman, Leonard, to Rohr Corporation. Thrust reversing apparatus. 3,665,709, 5-30-72, Cl. 60-226,00a.
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 Medcalf, Ralph F., Jr., to Procter & Gamble Company, The. Oral compositions for calculus retardation. 3,639,569, 2-1-72, Cl. 424-48.
 Medcalf, William A.: *See—*
 Welch, Wilson A.; and Medcalf, William A., 3,650,095.
 Meddaugh, Samuel A.: *See—*
 Krocheski, Thomas L.; Meddaugh, Samuel A.; and Staubs, John W., 3,666,968.
 Meddauh, Michael D.: *See—*
 Huebner, David J.; and Meddauh, Michael D., 3,706,695.
 Medding, Reuben; and Tyson, Graham Roland, to Consolidated Electronics (Sales) Proprietary Limited. Edge sensing mechanisms. 3,647,123, 3-7-72, Cl. 226-22.
 Medema, Dirk: *See—*
 Alkema, Henk J.; Medema, Dirk; and Wattimena, Freddy, 3,634,539.
 Poel, Dirk E.; Medema, Dirk; Van Helden, Robert; Ferkes, Nano; Bergmann, Elliot; and Wood, Jack, 3,658,953.
 Medema, Dirk; Brunmayer-Schilt, Willy; and Van Helden, Robert, to Shell Oil Company. Olefin disproportionation. 3,647,908, 3-7-72, Cl. 260-683.
 Medema, Dirk; Alkema, Henk J.; and Van Helden, Robert, to Shell Oil Company. Modification of polyolefinically unsaturated hydrocarbon polymers with mono-olefin monomers. 3,649,709, 3-14-72, Cl. 260-680.
 Medendorp, Nicholas W.: *See—*
 Lake, William H.; and Medendorp, Nicholas W., 3,666,986.
 Medendorp, Roger L., to Kirkhof Manufacturing Corporation. Apparatus for forming a plastic sheet. 3,687,594, 8-29-72, Cl. 425-388,000.
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 Medhurst, Cyril W., to British Aircraft Corporation Limited. Rotary instruments for indicating linear measurements. 3,651,780, 3-28-72, Cl. 116-115,5.
 Medi-Plas Sciences, Inc.: *See—*
 Rosa, Daniel F., 3,685,426.
 Medic, Nikolaj: *See—*
 Hloch, Albert; Medic, Nikolaj; and Kohlhaas, Rudolf, 3,650,683.
 Medica, Joseph J.; Trout, Kenneth G.; and Kyminas, Stanley C., to Celotex Corporation. The. Acrylic resin containing touch-up filler compound. 3,655,594, 4-11-72, Cl. 260-17.
 Medical and Electrical Instrumentation Company: *See—*
 Davies, Arthur Gordon, 3,653,763.
 Medical College of Ohio, The: *See—*
 Manning, Maurice, 3,691,147.
 Medical Development Corporation: *See—*
 Holbrook, Le Grand K.; and Ostler, David S., 3,646,935.
 Holbrook, Legrand K., 3,667,781.
 Holbrook, Legrand K., 3,699,815.
 Holbrook, Legrand K.; and Ostler, David S., 3,704,724.
 Norris, Elwood S., 3,631,849.
 Medical Electrosience and Pharmaceuticals, Inc.: *See—*
 Gery, Herbert C.; and Samson, Marvin S., 3,635,154.
 Medical Engineering Corporation: *See—*
 Lynch, Henry W., 3,681,786.
 Perras, Colette; and Papillon, Jacques, 3,665,520.
 Medical Innovations, Inc.: *See—*
 Birtwell, William Clifford, 3,654,919.
 Medical Planning Associates: *See—*
 Craft, Nina B.; and Sprague, Gary R., 3,648,296.
 Medical Plastics, Inc.: *See—*
 Bolduc, Lee R., 3,642,008.
 Bolduc, Lee R., 3,699,968.
 Wallace, Clarence, 3,656,833.
 Medical Research Laboratories: *See—*
 Milani, Dean L.; and Kerwin, Richard G., 3,706,313.
 Medical Specialties, Inc.: *See—*

- Gaylord, John F., Jr., 3,670,725.
 Gaylord, John F., Jr., 3,696,810.
 Medical Testing Systems, Inc.: *See—*
 McDonald, Bernard, 3,633,565.
 Medicor Muvek: *See—*
 Jurany, Gyorgy; Koman, Andras; and Zillich, Pal, 3,692,410.
 Piko, Zoltan, 3,651,833.
 Satori, Gyula, 3,697,835.
 Medidata Sciences, Inc.: *See—*
 Rawson, Edward B.; and Dowling, John B., 3,651,463.
 Medidyne Corporation: *See—*
 Giesy, Jerry D.; Smith, Gordon E.; and Schneider, Jack M., 3,704,712.
 Smith, Gordon E., 3,703,174.
 Medil, S.p.A.: *See—*
 Cuffaro, Antonino; Castronovo, Francesco; Bruno, Achille; and Rancati, Gianluigi, 3,670,060.
 Medimpex Gyogyszerkulereskedelmi Vallalat: *See—*
 Dobo, Janos; Somogyi, Agnes; and Lakner, Endre, 3,677,967.
 Medin, Gunnar F. A.; and Olsson, Erik G., to Forsvarets Fabrik-sverk. Explosive weapons and fragmentary elements therefor. 3,667,390, 6-6-72, Cl. 102-67,000.
 Medina, Conrad R.; and Cox, Edward A., to Mark, Clayton, and Company. Well gap. 3,631,895, 1-4-72, Cl. 138-89.
 Medinger, Till: *See—*
 Job, Brian Ernest; Pioli, Alexander Joseph Peter; and Medinger, Till, 3,654,254.
 Medipak Corporation Limited: *See—*
 Kovalcik, John N.; and Hovis, Donald B., 3,697,223.
 Mediplant AB: *See—*
 Johan, Bengt Olof; and Morner, Stellan, 3,683,733.
 Medisan AB: *See—*
 Swanbeck, Gunnar P. E., 3,666,863.
 Meditech Energy and Environmental Corporation: *See—*
 Matloff, Jack M.; and Sanford, Robert A., 3,692,648.
 Sanford, Robert A., 3,633,425.
 Meditron, Inc.: *See—*
 Fennell, John Richard; and Harvey, Robert J., 3,676,149.
 Johnson, Theodore R., Jr., 3,681,087.
 Meditz, John A.: *See—*
 Tonkovich, William; Meditz, John A.; and Vignola, Paul, 3,662,226.
 Tonkovich, William; Meditz, John A.; and Vignola, Paul, 3,670,836.
 Medley, Harold C.: *See—*
 Luttman, Erwin W.; and Medley, Harold C., 3,666,518.
 Medley, Richard C., to Crouse-Hinds Company. Tensioned reflector sheet with press forms. 3,686,495, 8-22-72, Cl. 240-41,35e.
 Medlin, Roger E.: *See—*
 Adams, Rodney V.; and Medlin, Roger E., 3,676,875.
 Medline Industries, Inc.: *See—*
 Fript, Leonard T., 3,705,584.
 Rentsch, Hans J., 3,705,583.
 Mednick, Sol Abraham, to FMC Corporation. Glycidol isolation by azeotropic distillation with a lower boiling entrainer. 3,655,524, 4-11-72, Cl. 203-67.
 Mednis, Edmar J., to General Foods Corporation. Agglomerating granular material. 3,660,108, 5-2-72, Cl. 99-71.
 Medovar, Boris Ezrailevich: *See—*
 Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexander; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexander Mikhailovich; Shevisov, Anatoly Ivanovich; Grinspon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toschev, Alexander Mikhaivich, 3,687,188.
 Medovar, Boris Izrailevich: *See—*
 Baglai, Vitaly Mikhailovich; Latash, Jury Vadimovich; and Medovar, Boris Izrailevich, 3,667,719.
 Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Pentegov, Igor Vladimirovich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; Baglai, Vitaly Mikhailovich; Podola, Nikolai Vasilievich; and Emelyanenko, July Georgievich, 3,665,081.
 Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Bondarenko, Oleg Petrovich; Latash, Jury Vadimovich; Baglai, Vitaly Mikhailovich; and Shirshov, Vladimir Grigorievich, 3,665,488.
 Paton, Boris Evgenievich; Latash, Jury Vadimovich; Medovar, Boris Izrailevich; Emelianenko, July Georgievich; and Kljuev, Mikhail Markovich, 3,670,089.
 Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Bondarenko, Oleg Petrovich; Latash, Jury Vadimovich; Baglai, Vitaly Mikhailovich; and Shirshov, Vladimir Grigorievich, 3,682,622.
 Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Podola, Nikolai Vasilievich; Bondarenko, Oleg Petrovich; Leibenzon, Semen Abramovich; Kaganovsky, Gary Petrovich; Smolyakov, Vadim Filimonovich; Eltsov, Konstantin Sergeevich; Gabuev, Georgy Kharitonovich; and Gladky, Dmitry Fedorovich, 3,693,700.
 Zuev, Ivan Mikhailovich; Gorsky, Anatoly Vasilievich; Medovar, Boris Izrailevich; Anenko, July Georgievich Emely; Latash, Jury Vadimovich; and Bogachenko, Alexei Georgievich, 3,687,189.
 Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; and Bogachenko, Alexei Georgievich. Remelting system and process utilizing varying voltage, current and melting rate. 3,665,080, 5-23-72, Cl. 13-9.
 Medrad, Inc.: *See—*
 Heilman, Marlin S.; Kransy, Rudolph J.; and Jones, Donald, 3,701,345.
 Medsker, Wayne G. Fluid mixing apparatus. 3,671,208, 6-20-72, Cl. 48-180,00c.
 Medtronic, Inc.: *See—*
 Gobeli, David H., 3,656,487.
 Greatbatch, Wilson, 3,648,707.
 Hagfors, Norman R., 3,645,267.
 Hagfors, Norman R., 3,654,933.
 Medtronic, Inc., mesne: *See—*
 Kahn, Alan R.; and Stroebel, Florence A., 3,659,588.
 Medusa Portland Cement Company, mesne: *See—*
 Walker, Robert, 3,665,821.
 Medvecky, Bartholomew P.; Oberai, Avtar S.; and Platt, Alan, to International Business Machines Corporation. Method for producing high performance semiconductor device. 3,676,231, 7-11-72, Cl. 148-188,000.
 Medvetskaya, Galina Arkadievna: *See—*
 Strelets, Khaim Lipovich; Chesnokov, Alexandr Sergeevich; Devyatkin, Vladimir Nikolaevich; Tatakina, Alexandr Nikolaevich; Krasikov, Evsei Dmitrievich; Leonova, Ljudmila Sergeevna; Medvetskaya, Galina Arkadievna; and Nechaeva, Tatyana Georgievna, 3,676,323.
 Medvick, Richard J.: *See—*
 Shufflebarger, Earl D.; Danko, Oliver L.; and Medvick, Richard J., 3,656,709.
 Medynski, Mieczyslaw Tadeusz Wladyslaw. Road studs. 3,693,511, 9-26-72, Cl. 94-1,500.
 Mee, C. Denis, to International Business Machines Corporation. Magnetic head with deposited core and signal conductor. 3,662,361, 5-9-72, Cl. 340-174,10f.
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 Mee, John D.: *See—*
 Eldredge, Carl H.; and Mee, John D., 3,674,782.
 Jenkins, Philip W.; Heseltine, Donald W.; and Mee, John D., 3,699,025.
 Jenkins, Philip W.; Heseltine, Donald W.; and Mee, John D., 3,699,026.
 Mee, Thomas Francis, to Litton Systems, Inc. Diplexer for radio communication. 3,656,162, 4-11-72, Cl. 343-180.
 Meece, Meredith Wayne: *See—*
 Greene, Robert Raymond; Jacob, Hans Oscar; and Meece, Meredith Wayne, 3,650,639.
 Meeco, Inc.: *See—*
 Siegerist, Walter L., 3,706,214.
 Meed, Marcus J. Electronic marker marine. 3,689,842, 9-5-72, Cl. 325-114,000.
 Meehan, Desmond. Composite mailing package and method of preparing same. 3,656,684, 4-18-72, Cl. 229-92,8.
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 Meek, James M., to United States of America, Army. Compact scanning radar antenna. 3,683,387, 8-8-72, Cl. 343-761,000.
 Meek, Katherine L.: *See—*
 Meek, Homer Virgil, 3,650,082.
 Meek, Louis: *See—*
 Baig, Reginald; Cooper, Joseph Ernest; and Meek, Louis, 3,680,508.
 Meek, Nigel W.; and Morris, Robert S., to Sperry Rand Limited. Disc mower conditioner. 3,656,284, 4-18-72, Cl. 56-14,5.
 Meek, Paul D.: *See—*
 Brown, Rene P.; Allison, Birt, Jr.; and Meek, Paul D., 3,639,490.

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- Mees, Omer Jan: *See—*
- Stievenart, Emile Frans; Mees, Omer Jan; and Verelst, Johan Lodewijk, 3,685,420.
- Meese, Heinz Gunter: *See—*
- Dietrich, Hermann; Schuler, Karl; and Meese, Heinz Gunter, 3,665,352.
- Meess, Jack D.: *See—*
- Lackey, Robert S.; Meess, Jack D.; and Swetlitz, Myron, 3,635,536.
- Meeussen, Louis Achilles: *See—*
- Bestenreiner, Friedrich; Lambere, Silvaan Rene; and Meeussen, Louis Achilles, 3,642,349.
- Brinckman, Eric Maria; and Meeussen, Louis Achilles, 3,645,733.
- Vrancken, Marcel Nicolas; Meeussen, Louis Achilles; and Claeys, Daniel Alois, 3,661,579.
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- Mefford, Carl R.; Lass, James L.; Smith, Bart A.; Venier, Dominic A.; and Trocki, Thomas, to General Electric Company. Nuclear fuel assembly with flow channel restraining means. 3,697,376, 10-10-72, Cl. 176-78,000.
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- Combs, Van P., 3,638,155.
- Ishii, Thomas Koryu, 3,636,752.
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- Yanagisawa, Takeru; and Mega, Yoshikyo, 3,634,152.
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- Meges, Helmut, to Metallwerke Neheim Goeke & Co. KG. Valve. 3,658,291, 4-25-72, Cl. 251-266,000.
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- Mehaulic, Thomas M. Portable spring biased indoor jogging machine. 3,638,940, 2-1-72, Cl. 272-83.
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- Mehl, Ernest; Kohut, Michael; and Kawulka, Paul, to Sherritt Gordon Mines Limited. Treatment of iron-nickel-chromium alloy scrap to facilitate recovery of metal values by leaching. 3,666,437, 5-30-72, Cl. 75-5.
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- Mehlschau, James J.: *See—*
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- Mehnert, Gottfried, to Conduco A.G. Method for the production of bottles or the like by blow molding. 3,681,486, 8-1-72, Cl. 264-89,000.
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- Mehnert, Klaus, to Bofringer, Wilhelm, Möbelwerkstätten. Table. 3,685,466, 8-22-72, Cl. 108-156,000.
- Mehnert, Walter E.: *See—*
- Barbacsy, Ludwig-Benno; Koerv, Peter; and Mehnert, Walter E., 3,684,956.
- Bogenberger, Richard; Busch, Heinz F. K.; Kroy, Walter; and Mehnert, Walter E., 3,702,378.
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- Culver, William H.; and Mehran, Farrokh, 3,643,116.
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- Unger, Richard; Seitz, Georg; Klockow, Michael; and Mehrhof, Werner, 3,686,164.
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- Meier, Emil S. Electrical power generator. 3,671,756, 6-20-72, Cl. 290-54,000.
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- Skoultschi, Martin; and Meier, Eric A., 3,666,732.
- Stockmann, Hans H.; and Meier, Eric A., 3,683,033.
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- Meier, Ernst, to International Telephone and Telegraph Corporation. Actuating cylinder. 3,631,767, 1-4-72, Cl. 92-165.
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- Meier, Gerhard: *See—*
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- Meier, James L., to Admiral Corporation. Yoke retaining device. 3,637,930, 1-25-72, Cl. 178-7.8.
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- Santeford, Henry S., Jr.; Meier, John G.; and Alger, George R., 3,690,169.
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- Meier, Otto H., to General Electric Company. Ammunition flow path fire propagation prevention system. 3,704,772, 12-5-72, Cl. 198-1,000.
- Meier, Richard N.: *See—*
- Kadi, Frank J.; Longworth, Ralph C.; and Meier, Richard N., 3,706,208.
- Meier, Robert A.: *See—*
- Blossick, Raymond B.; and Meier, Robert A., 3,668,029.
- Meier, Robert W.: *See—*
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- Meier-Windhorst, Christian August. Process and apparatus for the fixing of dyes. 3,632,301, 1-4-72, Cl. 8-176.
- Meier-Windhorst, Christian August, to Artos Dr. Ing. Meier-Windhorst Kommanditgesellschaft. Continuous process for the treatment of moving fabric webs of material. 3,685,954, 8-22-72, Cl. 8-151,000.
- Meier-Windhorst, Christian August, to Artos Dr. Ing. Meier-Windhorst Kommanditgesellschaft. Moisture- and high-temperature treatment of fabrics before finishing operations. 3,695,826, 10-3-72, Cl. 8-149,300.
- Meierhofer, Eugene J., to American Home Products Corporation. Dispenser for powdered medicaments. 3,662,930, 5-16-72, Cl. 222-564,000.
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- Meihofer, Ronald O.: *See—*
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- Meijer, Robert S., to Alnor Instrument Company; division of Illinois Testing Laboratories. Fluid velocity measuring device and method. 3,638,488, 2-1-72, Cl. 73-194.
- Meiji Seika Kaisha, Ltd.: *See—*
- Mayama, Takeshi; Miura, Taro; and Saito, Kazuo, 3,637,741.
- Nishio, Motohiro; Ito, Teichiro; Koeda, Takemi; and Shibata, Uichi, 3,682,899.
- Shomura, Takashi; Ezaki, Norio; Tsuruoka, Takashi; Niwa, Tomizo; Akita, Eiichi; and Niida, Taro, 3,661,892.
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- Meiki Seisakusho, Ltd.: *See—*
- Kunogi, Mahito, 3,655,313.
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- Barnett, Allen M.; Jensen, Harold A.; and Meikleham, Virginia F., 3,647,578.
- Meilander, Willard C., to Goodyear Aerospace Corporation. Method and apparatus for high speed vehicle position acquisition. 3,665,464, 5-23-72, Cl. 343-6.5.
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- McClellan, Ralph E.; and Kirian, Christopher C., 3,682,113.
- Meillat, Lucile: *See—*
- Job, Claude; Landler, Yvan; Lebel, Pierre Henri; and Meillat, Lucile, 3,650,874.
- Meiller, Francois, to Societe Industrielle des Silicones. Cyanoacetic silicon alcohol esters and method for preparation of same. 3,652,627, 3-28-72, Cl. 260-448.2.
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- Brun, Henri; and Meillieroux, Jean-Louis, 3,641,426.
- Malnar, Leon; and Meillieroux, Jean-Louis, 3,651,394.
- Meimoun, Daniel: *See—*
- Parisot, Andre; and Meimoun, Daniel, 3,674,539.
- Meindl, Hubert: *See—*
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- Meinecke, Clarence A., Jr. Portable scaffold. 3,666,046, 5-30-72, Cl. 182-145.
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- Meiners, Elmo R.: See—
Fackler, Kenneth C.; Bradford, John O.; and Meiners, Elmo R., 3,658,362.
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- Meinert, Norbert: See—
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Hohnerlein, Gunther Ernst; Meinhardt, Gunther Max; and Hildebrand, Peter, 3,692,064.
- Meinhardt, Helmut: See—
Bungardt, Karl; Lehnert, Gunter; and Meinhardt, Helmut, 3,692,554.
- Meinhardt, Helmut W.: See—
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Kuhne, Rudolf; Meininger, Fritz; and Frolich, Heinrich, 3,637,648.
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- Meininger, Fritz; and Schlafer, Ludwig, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-soluble phenyl azonaphthylazophenyl. 3,637,649, 1-25-72, Cl. 260-191.
- Meininger, Fritz; and Hahnle, Reinhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of benzoxazolone-6- β -hydroxy-ethyl-sulfone. 3,647,813, 3-7-72, Cl. 260-307.
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- Meinke, Hans H.; Ullrich, Kurt; and Wesch, Ludwig. Wide band interference absorber and technique for electromagnetic radiation. 3,680,107, 7-25-72, Cl. 343-18.00a.
- Meinke, Hans-Heinrich: See—
Lindenmeier, Heinz; and Meinke, Hans-Heinrich, 3,699,452.
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Schwing, Friedrich; and Meinken, Bernard, 3,685,543.
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Walker, Grant W.; Ford, Duane B.; and Meinzer, Lester N., 3,666,055.
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Bronfin, Barry Robert; Burwell, Wayne Gregory; and Meinzer, Richard August, 3,701,045.
- Meir, Franz; Pollinger, Hans; and Schmucker, Bernhard. Car stabilizing control system. 3,683,818, 8-15-72, Cl. 105-164.000.
- Meise, Henry August, Jr.: See—
Braun, Edwin Julius; Maxon, Rodney Robert; Meise, Henry August, Jr.; Taylor, George William; and Witmore, Ronald Kirk, 3,679,834.
- Meise, Kurt: See—
- Hanning, Robert; Meise, Kurt; Brinkmann, Willi; and Laufer, Wilfried, 3,657,838.
- Meisei Chemical Works, Ltd.: See—
Noda, Masajiro; Kajita, Hiroyuki; and Kuwayama, Koji, 3,700,402.
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Denss, Rolf; Kocsis, Karoly; and Meisels, Alex, 3,658,806.
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- Meiser, Charles H., Jr.: See—
Miller, Bernard; Lambert, Harold; and Meiser, Charles H., Jr., 3,667,277.
- Meiser, Kenneth D., to Plastics Manufacturing Company. Rapid-curing melamine-formaldehyde impregnated paper sheet for producing surface of improved stain resistance and luster retention. 3,650,821, 3-21-72, Cl. 117-155.
- Meiser, Werner: See—
Scheibitz, Maria; Von Konig, Anita; Kampfer, Helmut; Mayer, Dietmar; Sasse, Klaus; Kolb, Gunter; Honig, Hans Ludwig; and Meiser, Werner, 3,690,884.
- Westphal, Kurt; Meiser, Werner; Fue, Ludwig; and Hack, Helmut, 3,671,523.
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Maldonado, Juan Ramon; and Meitzler, Allen Henry, 3,659,270.
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Vardaman, Hunter W., 3,673,896.
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Shames, Harold; Shames, Sidney J.; and Logan, John F. (said Logan assor. to), 3,637,143.
- Melcer, Irving: See—
Sair, Louis; and Melcer, Irving, 3,669,677.
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Knothe, Erich Emil; and Melcher, Franz Josef, 3,653,013.
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Favie, Claude; Dellsperger, Werner; and Meline, Philippe, 3,646,165.
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- Melink, George E.: See—
Grundtner, Matthias J.; and Melink, George E., 3,662,122.
- Melitta, Inc.: See—
Wiedemann, Karl, 3,672,538.
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Brouwer, Abraham; and Van Loom, Gerardus M. A. M., 3,687,928.
- Mellaerts, Wilfred Jean: See—
Mommarts, Henri Albert; and Mellaerts, Wilfred Jean, 3,639,652.
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Walsh, David F., 3,635,395.
- Melle, Hans-George: See—
Wettlen, Roland; Melle, Hans-George; and Palsson, Jan, 3,693,640.
- Melle-Bezons: See—
Biarnais, Paul, 3,661,972.
- Colin, Pierre; and Merle, Roger, 3,671,398.
- Mercier, Jules, 3,681,204.
- Roussos, Michel; and Bourgeois, Yves, 3,639,264.
- Mellen, Edward J., Jr.: See—
Loxley, Ted A.; Webb, John M.; and Barber, Walter G., 3,640,398.
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Sprick, Walter F.; Morse, Frank C.; Holzer, Alexander; Meller, Oscar W.; and Lovich, John W., 3,706,392.
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- Melloy, George F.; and Dennison, Joseph D., to Bethlehem Steel Corporation. Method of producing rolled steel having high strength and low impact transition temperature. 3,645,801, 2-29-72, Cl. 148-12.
- Mellquist Mfg. Co., Inc.: See—
- Pearson, John R.; and Johnson, Glenn J., 3,660,660.
- Melnick, Daniel: See—
- Cooper, Irwin; Parker, Wilbur Allen; and Melnick, Daniel, 3,671,266.
- Daggy, Elmer E.; and Melnick, Daniel, 3,649,302.
- Gooding, Chester Martin; Parker, Wilbur; and Melnick, Daniel, 3,671,267.
- Mokrzycki, Stanley Martin; Sexton, Edwin Leon; Powers, Thomas George; and Melnick, Daniel, 3,677,768.
- Melnick, Igor: See—
- Lazzari, Jean-Pierre; and Melnick, Igor, 3,676,869.
- Melnick, Irving E.: See—
- Graham, Walton; Melnick, Irving E.; and De Filippis, Tullio, 3,691,516.
- Melnick, Joseph L.: See—
- Wallis, Craig; and Melnick, Joseph L., 3,651,213.
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- Sauerwein, William D.; Meloni, Robert A.; and Walter, Harvey J., 3,666,027.
- Melott, Norman W., to Cook-Waite Laboratories, Inc. Sealing closure caps. 3,673,766, 7-4-72, Cl. 53-335.000.
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- Brody, Samuel S.; and Holland, William B., 3,645,627.
- Callanen, Oliver E., 3,645,011.
- Koch, Bradley R., 3,655,962.
- Stowe, Richard W., 3,656,019.
- Swindells, Frank E., 3,669,743.
- Melquion, Henri; Stauff, Emile; and Guillot, Jean, to Electrofil and Nord-Aviation Societe Nationale de Constructions Aeronautiques. Connecting cable between a control post and flying missile. 3,654,030, 4-4-72, Cl. 156-441.
- Melray Manufacturing Company: See—
- Hedberg, David A., 3,693,386.
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- Napolin, Seymour, 3,662,235.
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- Meltzer, Morris; and Meyer, Donald D. Automatic meat cutting machine. 3,631,908, 1-4-72, Cl. 146-133.
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- Craigne, William J. S.; Ritcey, Gordon M.; Joe, Edwin Glendon; Melvanin, William; and Smart, Bruce C., 3,702,883.
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- Clark, Melville, Jr.; and Luce, David A., 3,697,703.
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- Ball, Claire G.; Grimm, Arthur C.; and Melville, Thomas, 3,650,785.
- Melvin, James A., Jr.: See—
- Chace, Donald E.; Melvin, James A., Jr.; Ricketts, Alan W., Jr.; Steinberger, Edward P.; and Symmes, David T., 3,701,113.
- Melvin, Mary: See—
- Gilliam, Joe L., 3,645,032.
- Melvin, Mary E.: See—
- Gilliam, Joe L., 3,701,212.
- Melvin, William J., to Collins Radio Company. Differentially coherent phase shift keyed digital demodulating apparatus. 3,675,129, 7-4-72, Cl. 325-320.000.
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- Melze, Charles F.: See—
- Jamieson, Hugh V., Jr.; and Melze, Charles F., 3,661,068.
- Melzer, Arnfried: See—
- Vetter, Hans; Danhauser, Justus; Kabitzke, Karlheinz; Marx, Paul; Melzer, Arnfried; Pelz, Willibald; and Puschel, Walter, 3,705,035.
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- Membrionics Corporation: See—
- Jamaica, Julius Orban; and Brooks, Joseph, 3,681,237.
- Memco (Electronics) Limited: See—
- Bloice, John Anthony, 3,691,556.
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- Bhatia, Surindar Kumar; and Memhardt, Charles Rogers, 3,640,283.
- Mommel, Ferdinand: See—
- Gossel, Hartmut; Merkle, Kurt; Memmel, Ferdinand; and Janousch, Erwin, 3,684,542.
- Memnen-Greatbatch Electronic, Inc.: See—
- Greatbatch, Wilson, 3,639,907.
- Memorex Corporation: See—
- Applequist, James E., 3,700,985.
- Applequist, Roy A.; and Wilson, Laurence M., 3,665,434.
- Brown, Keith S., 3,704,841.

- Bunas, Gary L.; and Clark, Ross P., 3,684,547.
- Higashi, Louis M., 3,655,595.
- Murashige, Robert H., 3,700,480.
- Procter, William B.; and Youngstrom, Jerry R., 3,633,187.
- Slade, Albert E.; and Newman, John J., 3,632,898.
- Tollkuhn, Arthur W., 3,642,228.
- Tollkuhn, Arthur W., 3,684,203.
- Menaker, Warren M.: See—
- Boxer, Leo M.; and Boxer, Robert W., 3,703,974.
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- Bhutani, Harish K.; and Kendall, Giles A., 3,647,199.
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- Menasha Corporation: See—
- Wharton, Thomas P., 3,702,100.
- Menasha Corporation, mesne: See—
- Stevens, Bruce W., 3,659,497.
- Menashi, Jameel; and Troiano, Paul F., to Cabot Corporation. Process for decolorizing dry cleaning solvents. 3,647,685, 3-7-72, Cl. 210-39.
- Menashi, Wilson P.: See—
- Ashman, Leland E.; and Menashi, Wilson P., 3,701,628.
- Menasoff, George N., to Anaconda Wire and Cable Company. Cable jacket extrusion apparatus and die with wire positioning means. 3,692,448, 9-19-72, Cl. 425-113.000.
- Menasse, Raphael: See—
- Gubler, Kurt; Menasse, Raphael; and Gatzki, Karl, 3,692,909.
- Menasse, Raphael; and Gatzki, Karl, to Geigy Chemical Corporation. N-(4-Carboxy-benzylidene) amines. 3,697,589, 10-10-72, Cl. 260-518.00r.
- Mencacci, Samuel A., to International Machinery Corporation S.A. Pulping and finishing apparatus. 3,656,528, 4-18-72, Cl. 146-174.
- Mencacci, Samuel A., to International Machinery Corporation, S.A. Apparatus for canning fish. 3,700,386, 10-24-72, Cl. 53-23.000.
- Mencacci, Samuel Alfred, to International Machinery Corporation, S.A. Self propelled, fan-type orchard sprayer. 3,666,177, 5-30-72, Cl. 239-77.000.
- Mencarelli, Vittorio. Ball valve. 3,677,514, 7-18-72, Cl. 251-148.000.
- Mench, John W.: See—
- Fulkerson, Brazelton; and Mench, John W., 3,645,744.
- Fulkerson, Brazelton; and Mench, John W., 3,653,935.
- Grant, Peter M.; Fulkerson, Brazelton; and Mench, John W., 3,697,640.
- Menchikov, Leonid Petrovich; Kopylov, Kim Ivanovich; Okun, Evsei Lvovich; Smirnov, Vasily Mikhailovich; Gavrikov, Viktor Stepanovich; Fridman, Ilya Davidovich; Markov, Vyacheslav Evgenievich; and Sopin, Alexandr Alexandrovich, to National Cash Register Company, The. Installation for casting microwire in glass insulation. 3,651,301, 3-21-72, Cl. 219-10.75.
- Mendel, Arthur: See—
- Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,637,729.
- Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,639,474.
- Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,642,817.
- Mendel, Arthur, to Riker Laboratories, Inc., mesne. N-(2-Dialkylaminoalkylene)-esters of fluoroalkoxy-substituted aryl carboxylic acids and salts thereof. 3,655,728, 4-11-72, Cl. 260-473.
- Mendel, Eric, to International Business Machines Corporation. Method for polishing magnetic oxide materials. 3,662,500, 5-16-72, Cl. 51-281.0sf.
- Mendel, Eric, to International Business Machines Corporation. Method for polishing magnetic oxide materials. 3,662,501, 5-16-72, Cl. 51-281.0sf.
- Mendel, John R.: See—
- Jones, George F.; and Mendel, John R., 3,668,172.
- Mendell, Lester W., Jr.: See—
- Zane, Ronald S. O.; and Mendell, Lester W., Jr., 3,697,362.
- Mendelson, Myron J.; and England, Alfred W., to Delaware SDS, Inc., mesne. General purpose digital computer. 3,701,977, 10-31-72, Cl. 340-172.500.
- Mendelson, Ralph A.: See—
- Kirkpatrick, Milton E.; and Mendelson, Ralph A., 3,650,646.
- Kirkpatrick, Milton E.; and Mendelson, Ralph A., 3,665,260.
- Mendelson, William J.; and Morris, William F., Jr. Process for packaging and preserving meats. 3,637,405, 1-25-72, Cl. 99-194.
- Mendes Da Rocha, Manuel Coelho, to Laboratorio Nacional de Engenharia Civil. Apparatus and method for obtaining core samples from soil and rock masses. 3,631,934, 1-4-72, Cl. 175-58.
- Mendez, Charles E. Fuel transfer system for tractor trailer vehicles. 3,677,284, 7-18-72, Cl. 137-351.000.
- Mendez, Robert w., to Garwood-Mendez Inc. Food container construction. 3,684,157, 8-15-72, Cl. 229-16.000.
- Mendius, Carl, Jr., to Silbrico Corporation. Apparatus for settling insulation material in cryogenic tanks. 3,633,878, 1-11-72, Cl. 259-92.
- Mendoza, Phyllis E. Differential change register. 3,654,433, 4-4-72, Cl. 235-7.
- Menegatto, Carlo. Dobby mechanism for looms. 3,695,304, 10-3-72, Cl. 139-78.000.
- Meneghini, Carlo; Mayer, Richard Eugene; Lazarus, Stanley David; and Rainer, Norman Barry, to Allied Chemical Corporation. Microvoiding with alkali metal hydroxide a heat fused fabric of polyamide with fiber occluded axially aligned polyester microfibrils. 3,654,679, 4-11-72, Cl. 28-73.
- Meneidis, Petros G., to Lavreotiki Societe Industrielle Anonyme. Extrusion head for continuously extruding a compound strand of plastic materials. 3,642,396, 2-15-72, Cl. 425-109.
- Menell, Hans, to Continental Gummi-Werke Aktiengesellschaft. Method of making tires. 3,687,757, 8-29-72, Cl. 156-126.000.
- Menelly, Richard A., to Sylvania Electric Products, Inc. Arc discharge lamp having a thin continuous film of indium oxide on the inner surface thereof. 3,676,729, 7-11-72, Cl. 313-109.000.
- Meneret, Jean, to Commissariat a l'Energie Atomique et Societe Desmarquest SA. Device for initiating an exothermic reaction. 3,664,651, 5-23-72, Cl. 266-1.
- Meneses, Robert: See—
- Terrels, Joseph L.; and Meneses, Robert, 3,672,645.
- Menge, Donald C., to Troy Steel Corporation. Cutting apparatus. 3,680,609, 8-1-72, Cl. 143-46.00e.
- Mengel, Lloyd A., to Eastman Kodak Company. Apparatus for piercing a container. 3,688,399, 9-5-72, Cl. 30-16.000.
- Menger, Karl S.: See—
- Lincoln, Andrew J.; and Menger, Karl S., 3,675,000.
- Menger, William M.: See—
- Meyer, Walter H.; and Menger, William M., 3,666,605.
- Menges, Hans G. L.: See—
- Lehnen, Josef Peter; Menges, Hans G. L.; and Harms, Engelbert G., 3,652,064.
- Menges, Hans G. L.; Lehnen, Josef P.; and Harms, Englebert G., to Uniroyal Englebert Deutschland AG. Single worm extruder. 3,680,844, 8-1-72, Cl. 18-12.0sb.
- Mengis, Hans: See—
- Mengis, Raphael; and Mengis, Hans, 3,645,019.
- Mengis, Raphael; and Mengis, Hans. Apparatus equipped with worm means for digging a ditch or the like. 3,645,019, 2-29-72, Cl. 37-82.
- Mengler, Allan A.: See—
- Walesch, David J.; and Mengler, Allan A., 3,707,197.
- Menhennett, Herbert E.: See—
- Howard, Robert; Robinson, Prentice I.; and Menhennett, Herbert E., 3,703,949.
- Menicanti, Adriano; and Oberto, Giacomo, to Olivetti, Ing., C., & C., S.p.A. Mutual locking device for an office machine with electric keyboard. 3,664,478, 5-23-72, Cl. 197-17.000.
- Menichelli, Vincent J., to United States of America, Navy. Delay train for ordnance fuse. 3,638,572, 2-1-72, Cl. 102-75.
- Menieks, Paul R.: See—
- Blumbergs, John H.; and Menieks, Paul R., 3,691,139.
- Menigat, Richard, to Metallgesellschaft Aktiengesellschaft. Incinerator apparatus. 3,687,094, 8-29-72, Cl. 110-8.00r.
- Menikheim, Virginia C.; and Kilmer, Charlie C. Surface treatment of nylon shaped articles with aqueous reducing agents. 3,686,017, 8-22-72, Cl. 117-47.00a.
- Meniollle D'Hauthuille, Jean. Pivoted gate. 3,686,793, 8-29-72, Cl. 49-131.000.
- Menioux, Claude Charles Felix, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Composite gas turbine ramjet engine. 3,635,029, 1-18-72, Cl. 60-224.
- Menitsky, Iosif Donatovich: See—
- Poludetkin, Vladimir Romanovich; Menitsky, Iosif Donatovich; and Kaplan, Jury Abramovich, 3,638,513.
- Menke, Franz, to Eltro G.m.b.H. & Co. Apparatus for measuring the range of vision by comparing a direct and dispersed beam of light. 3,653,768, 4-4-72, Cl. 356-104.
- Menke, Franz, to Eltro G.m.b.H. & Co. Process and apparatus regulating the fuel-air mixture in internal combustion engines operating with carburetors. 3,667,739, 6-6-72, Cl. 261-1.000.
- Menke, Joseph F., to Eltro G.m.b.H. & Co. Method and apparatus for the determination of coordinates. 3,690,594, 9-12-72, Cl. 244-3.130.

Menke, Wilhelm, to NSM Apparatebau GmbH. Automatic phonograph with pin memory unit and cam readout unit. 3,662,344, 5-9-72, Cl. 340-162.

Menkel, Gary G., to Design Center, Inc. Method for thermoforming a screw cap closure. 3,651,185, 3-21-72, Cl. 264-89.

Menley & James Laboratories: *See—*

Seidler, David, 3,694,096.

Menn, Bruce E., to Lear Siegler, Inc. Flight control system for following multi-stage descent profile. 3,666,929, 5-30-72, Cl. 235-150.22.

Menn, Julius J.: *See—*

Baker, Don R.; Menn, Julius J.; and Freiberg, Ashley H., 3,658,812.

Brokke, Mervin E.; Menn, Julius J.; and Dorman, Stephen C., 3,642,958.

Menn, Julius J.: *See—*

Lee, Hwalin; Pallos, Perenc M.; and Menn, Julius J., 3,701,759.

Menne, Eugene P., to Johnson Diversified, Inc. Push button lock for fishing reels. 3,703,262, 11-21-72, Cl. 242-84.20a.

Mennen, Frederick C., to United States Packaging Corporation. Method and apparatus for collecting fines produced during the drying of charcoal briquettes. 3,645,517, 2-29-72, Cl. 263-52.

Mennen, Frederick C., to United States Packaging Corporation. Method and apparatus for desensitizing charcoal briquette fines. 3,663,185, 5-16-72, Cl. 44-2.

Mennen-Greatbatch Electronics, Inc.: *See—*

Weppner, Benjamin H.; Lefebvre, Leo P.; and Miller, Victor R., 3,690,313.

Mennesson, Andre L., to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Fuel feed devices for internal combustion engines. 3,683,877, 8-15-72, Cl. 123-97.00b.

Mennesson, Andre Louis, to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Fuel feed devices for internal combustion engines. 3,646,914, 3-7-72, Cl. 123-32.

Mennesson, Andre Louis, to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Improvements in or relating to feed devices for internal combustion engines. 3,654,905, 4-11-72, Cl. 123-32.

Mennesson, Andre Louis, to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Fuel feed devices for internal combustion engines. 3,661,134, 5-9-72, Cl. 123-139.

Mennesson, Andre Louis, to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Carbureters for internal combustion engines. 3,661,367, 5-9-72, Cl. 261-41.

Mennesson, Bernard Rene, to Societe d'Appareils de Controle et d'Equiptment des Moleurs S.A.C.E.M. Disc brakes controlled by bowden cables. 3,655,015, 4-11-72, Cl. 188-71.7.

Mennicken, Gerhard: *See—*

Wagner, Kuno; and Mennicken, Gerhard, 3,647,848.

Menning, Walter A. Rake and tongs combination. 3,643,410, 2-22-72, Cl. 56-400.12.

Menold, Robert F.: *See—*

Davison, Ellison L.; Brinkhoff, Carl H.; and Menold, Robert F., 3,667,834.

Menorah Medical Center: *See—*

Kolko, Gary A.; and Brown, Clifford, 3,705,788.

Mensch, Elizabeth P.: *See—*

Bogan, Simeon, 3,653,364.

Mentcher, Israel; and Thomas, Charles E., to General Electric Company. Acoustic guidance system. 3,648,636, 3-14-72, Cl. 114-23.

Mente, Joseph N.: *See—*

Kietzer, James E.; and Mente, Joseph N., 3,699,462.

Mentha, John W.: *See—*

Cresswell, Ronald M.; Mentha, John W.; and Seaman, Russell, 3,682,957.

Cresswell, Ronald M.; Mentha, John W.; and Seaman, Russell L., 3,697,512.

Mentha, John William: *See—*

Cresswell, Ronald Morton; and Mentha, John William, 3,671,564.

Mentor Corporation: *See—*

Glover, Eugene C., 3,662,758.

Mentrup, Anton: *See—*

Schromm, Kurt; Mentrup, Anton; Zeile, Karl; Renth, Ernst-Otto; Engelhardt, Albrecht; and Traunecker, Werner, 3,673,187.

Mentrup, Anton; Schromm, Kurt; Zeile, Karl; and Thoma, Otto, to Boehringer Ingelheim G.m.b.H. 1-2',3',4'-Trisubstituted phenyl-2-amino-alkanols (1) and salts thereof. 3,657,244, 4-18-72, Cl. 260-256.

Mentschel, Helmut; and Henkel, Jahn-Joachim, to Siemens Aktiengesellschaft. Valve-controlled differential pump system and method of operation. 3,704,965, 12-5-72, Cl. 417-395.000.

Mentzell, John C.: *See—*

Fahey, Thomas M.; and Mentzell, John C., 3,668,946.

Menyailo, Anatoly Tikhonovich; Pospelov, Mikhail Valerievich; Kaliko, Olga Romanovna; Pokrovskaya, Inna Evgenievna; Fedorova, Valentina Vsevolodovna; Shilnikova, Albina Georgievna; Yakovleva, Antonina Karpovna; and Narozhenko, Tamara Georgievna. Process for ozonizing unsaturated compounds to form alkali earth metal peroxide, aliphatic aldehydes and aliphatic ketones. 3,664,810, 5-23-72, Cl. 23-187.

Menz, Dieter: *See—*

Clauss, Wolfgang; and Menz, Dieter, 3,661,596.

Menz, Elsie L., to Xerox Corporation. Image transfer process from conductive substrates. 3,658,519, 4-25-72, Cl. 96-1.4.

Menz, Elsie L. Transfer of images to a non-conductive substrate. 3,706,553, 12-19-72, Cl. 96-1.400.

Menz, Hans-Udo: *See—*

Barth, Hans; Griess, Wilhelm; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Sagredos, Angelos, 3,663,446.

Barth, Hans; Knausenberger, Martin; Lange, Henner; Menz, Hans-Udo; and Griess, Wilhelm, 3,706,675.

Menz, Hans-Udo; Rost, Johannes Erich; and Wieske, Theophil, to Lever Brothers Company. Spreadable fats. 3,658,555, 4-25-72, Cl. 99-122.

Menz, Hans-Udo; Trapp, Horst Otto Adolf; and Wieske, Theophil, to Lever Brothers Company. Process of preparing margarine containing diacylglycerophatide. 3,663,235, 5-16-72, Cl. 99-123.

Menzel, David C., to Minnesota Mining and Manufacturing Company. Record level indicator circuit. 3,633,195, 1-4-72, Cl. 340-248.

Menzel, Gerhard, to Propper Manufacturing Co., Inc. Apparatus for matting glass slides. 3,636,663, 1-25-72, Cl. 51-138.

Menzel, Gerhard, to Propper Manufacturing Co., Inc. Machine for grinding edges of glass articles. 3,641,712, 2-15-72, Cl. 51-122.

Menzer, Anton: *See—*

Eberhard, Heinz; and Menzer, Anton, 3,631,723.

Menzi, Hans: *See—*

Bommer, Peter; and Menzi, Hans, 3,674,102.

Menzi, Hans, to Mettler Instrumente AG. Weighing apparatus with damping means. 3,679,013, 7-25-72, Cl. 177-184.000.

Menzies, James H.; and McSwiggan, Joseph R., to Procter & Gamble Company, The. Puffed instant coffee spheres. 3,637,397, 1-25-72, Cl. 99-65.

Menzies, Robert W., to Canadian Patents and Development Limited. Synchronous reluctance motors having rotor segments of extended pole span. 3,671,789, 6-20-72, Cl. 310-163.000.

Menzies, Robert W., to Canadian Patents and Development Limited. Synchronous reluctance motors and method of starting. 3,679,924, 7-25-72, Cl. 310-163.000.

Menzl, Kurt: *See—*

Vorreither, Hans-Klaus; Obendorf, Werner; Menzl, Kurt; and Hofer, Harald, 3,642,811.

Meola, Robert R.: *See—*

Coliz, James T.; and Meola, Robert R., 3,643,066.

Meopta Proror: *See—*

Mazur, Jiri, 3,636,848.

M.E.P.P.S. Manufacture d'Engins de Precision pour Peches Sportives: *See—*

Modeme, Robert L., 3,694,951.

Meraz, Daniel, Jr.; and Simshauser, Anthony J., to United States of America, Navy. Ignition band and cover assembly. 3,699,893, 10-24-72, Cl. 102-70.200.

Mercadante, Joseph: *See—*

Gouirand, Rene, 3,692,325.

Mercade, Venacio; and Weir, Samuel R., to Engelhard Minerals & Chemicals Corporation. Method for treating floated solids. 3,635,337, 1-18-72, Cl. 209-3.

Mercade, Venacio V., to Engelhard Minerals & Chemicals Corporation. Recovery of calcium fluoride from fluorspar ore. 3,656,895, 4-18-72, Cl. 23-88.

Mercade, Venancio V., to Engelhard Minerals & Chemicals Corporation. Method for improving the brightness of gray sedimentary kaolin clay. 3,655,038, 4-11-72, Cl. 209-5.

Mercade, Venancio V., to Engelhard Minerals & Chemicals Corporation. Purification of clay by selective flocculation. 3,701,417, 10-31-72, Cl. 209-5.000.

Mercadante, Joseph: *See—*

Gouirand, Rene, 3,689,054.

Mercato, Giorgio: *See—*

Perugini, Giancarlo; Mercato, Giorgio; Belotti, Luigi; and Caccamo, Carmelo, 3,684,911.

Mercer, Allen C.: *See—*

Lake, Alvin E., Jr.; and Mercer, Allen C., 3,693,021.

Mercer, Austin Cartwright, Jr., to Mercer Pneumatic Tools Limited. Machine tools, particularly a device for bar feed mechanism and a bar feed mechanism. 3,698,269, 10-17-72, Cl. 82-38.00r.

Mercer, Clive Kenneth; and Wilkin, George Desmond, to Upjohn Company, The, mesne. Production of 6-demethyltetracycline. 3,639,214, 2-1-72, Cl. 195-80.

Mercer, Francis T.: *See—*

Lunning, Raymond A.; and Mercer, Francis T., 3,672,760.

Mercer, Harry L. Method for space dyeing yarns. 3,692,466, 9-19-72, Cl. 8-151.200.

Mercer, James L.; and Rowell, Lorne A., to Horton, John T., mesne. Continuous freeze drying system. 3,648,379, 3-14-72, Cl. 34-5.

Mercer, James R., to McDowell-Wellman Engineering Company. Control apparatus for double-acting hydraulic cylinder and piston assembly. 3,656,406, 4-18-72, Cl. 91-401.000.

Mercer, Joe F. Motorized fishing line. 3,654,723, 4-11-72, Cl. 43-26.1.

Mercer, Norman J. Construction for use as a hairdressing tool and as a steam iron. 3,702,616, 11-14-72, Cl. 132-9.000.

Mercer Pneumatic Tools Limited: *See—*

Mercer, Austin Cartwright, Jr., 3,698,269.

Mercer, Robert, to Westinghouse Electric Corporation. High temperature fan construction. 3,680,978, 8-1-72, Cl. 415-180.000.

Mercer, Ronald H.: *See—*

Rutledge, Nolan W.; Mercer, Ronald H.; and Hill, Herbert Charles, Jr., 3,673,982.

Mercer, Stanley: *See—*

Ruhemann, Martin Siegfried William; and Mercer, Stanley, 3,643,452.

Merchandising Limited: *See—*

Lennie, Kenneth B., 3,635,423.

Merchant, Chester O., to Kentucky Electronics Inc. Machinery for making CRT electronic assemblies using two indexing tables. 3,650,002, 3-21-72, Cl. 29-25.19.

Merchant, John, to Honeywell Inc. Automatic focusing for oculometers. 3,663,098, 5-16-72, Cl. 351-6.

Merchant, Morris V.: *See—*

Ottinger, August F.; Merchant, Morris V.; and Graham, Paul R., 3,658,579.

Merchant, Thomas G.: *See—*

Vallino, Barney; and Merchant, Thomas G., 3,653,265.

Mercier, Alfred C., to Honeywell Inc. High frequency galvanometer. 3,681,691, 8-1-72, Cl. 324-154.00r.

Mercier, Andre, to Fives Lille-Cail. Continuously operating centrifugal separator. 3,647,135, 3-7-72, Cl. 233-1.

Mercier, Andre. Centrifugal separator. 3,682,373, 8-8-72, Cl. 233-1.00c.

Mercier, Jacques: *See—*

Colinet, Andre; Mercier, Jacques; and Pernoud, Claude, 3,640,457.

Colinet, Andre; and Mercier, Jacques, 3,693,532.

Mercier, Jacques, to Regie Nationale des Usines Renault and Automobiles Peugeot. Adjustable louvers for heating and ventilation systems of vehicles. 3,648,590, 3-14-72, Cl. 98-2.

Mercier, Jacques H.: *See—*

Mercier, Jean; and Mercier, Jacques H., 3,654,964.

Mercier, Jacques H. Locking ring for pressure vessel. 3,640,172, 2-8-72, Cl. 85-8-8.

Mercier, Jacques H. Pressure vessel. 3,674,054, 7-4-72, Cl. 138-30.000.

Mercier, Jacques H.; Copine, Fernand; and Corbellini, Carlo, said Copine and said Corbellini assors. to Olaer Patent Company. Pressure vessel. 3,675,684, 7-11-72, Cl. 138-30.000.

Mercier, Jacques H. Valve including resilient seat washer with abutting rigid annular washer. 3,675,896, 7-11-72, Cl. 251-321.000.

Mercier, Jacques H. Locking ring for pressure vessel. 3,687,165, 8-29-72, Cl. 138-30.000.

Mercier, Jacques H. Volume compensated housing. 3,693,348, 9-26-72, Cl. 60-51.000.

Mercier, Jean: *See—*

Faille, Marc Della; Fripiat, Jose; and Mercier, Jean, 3,692,816.

Mercier, Jean; and Mercier, Jacques H. Pressure vessels. 3,654,964, 4-11-72, Cl. 138-30.

Mercier, Jules, to Melle-Bezons. Process for continuous purification of esters by plural distillation at specific pressure ranges. 3,681,204, 8-1-72, Cl. 203-77.000.

Mercier, Julian J. Method and apparatus for determining slump in concrete. 3,631,712, 1-4-72, Cl. 73-54.

Mercier, Julian J. Slump indicator. 3,640,121, 2-8-72, Cl. 73-54.

Mercier, Pierre Ernest. Vehicles with incidence-angle driving wheels. 3,656,572, 4-18-72, Cl. 180-21.

Mercik, James E.: *See—*

Dolcimascolo, Charles; Hoffman, Daniel S.; Jones, Hugh L.; and Mercik, James E., 3,702,482.

Merck & Co., Inc.: *See—*

Allen, Donald J.; and Bondi, Joseph V., 3,644,630.

Allen, Donald J.; and O'Neill, Joseph L., 3,678,163.

Arth, Glen E.; and Rasmusson, Gary H., 3,673,180.

Arth, Glen E.; and Rasmusson, Gary H., 3,679,717.

Atkinson, Joseph G.; and Simons, Erskine, Jr., 3,666,821.

Baldwin, John J.; and Novello, Frederick C., 3,691,178.

Balhofer, William A.; and Baldwin, John J., 3,655,894.

Bolhofer, William A., 3,654,296.

Bolhofer, William A.; and Baldwin, John J., 3,691,166.

Brightenback, George E.; and Harris, Elbert E., 3,632,775.

Carlson, John A.; Hoff, Dale R.; and Rooney, Clarence S., 3,646,027.

Chaiet, Louis; and Kempf, August J., 3,652,401.

Chamberlin, Earl M.; Harris, Elbert E.; and Zabriskie, John L., Jr., 3,658,846.

Chemerda, John M.; and Lumma, William C., 3,658,668.

Christensen, Burton G.; and Firestone, Raymond A., 3,632,691.

Christensen, Burton G.; and Leanza, William J., 3,639,382.

Christensen, Burton G.; Beattie, Thomas R.; and Graham, Donald W., 3,657,282.

Christensen, Burton G.; and Leanza, William J., 3,689,480.

Christy, Marcia E., 3,646,107.

Christy, Marcia E., 3,657,450.

Cohen, Edward M.; Grabowski, Edward J. J.; and Aczel, Rezso, 3,670,083.

Conn, John B., 3,692,825.

Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., 3,636,073.

Cragoe, Edward J., Jr.; and Jones, James H., 3,660,400.

Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., 3,668,241.

Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., 3,704,314.

Czaja, Robert F.; Grenda, Victor J.; and Chamberlin, Earl M., 3,704,249.

Demain, Arnold L.; Chemerda, John M.; and White, Raymond F., 3,635,795.

Demny, Thomas C., 3,657,418.

Engelhardt, Edward L.; and Remy, David C., 3,697,544.

Erickson, Arthur E., 3,632,811.

Everson, Charles W., 3,681,083.

Fertig, Joseph; and Lederer, Seymour J., 3,642,044.

Finkelstein, Ehud, 3,678,060.

Firestone, Raymond A.; and Glamkowski, Edward J., 3,632,609.

Firestone, Raymond A., 3,634,463.

Firestone, Raymond A., 3,637,763.

Firestone, Raymond A., 3,637,765.

Firestone, Raymond A., 3,641,065.

Firestone, Raymond A., 3,660,432.

Firestone, Raymond A., 3,668,197.

Firestone, Raymond A., 3,678,078.

Firestone, Raymond A., 3,679,711.

Firestone, Raymond A., 3,679,712.

Fisher, Michael H.; Hoff, Dale R.; and Bochis, Richard J., 3,686,110.

Fisher, Michael H., 3,701,780.

Fisher, Michael H.; Hoff, Dale R.; and Bochis, Richard J., 3,705,174.

Grabner, Roy W.; Zimmermann, Morris; Subjack, William J.; and Veber, Daniel F., 3,664,926.

Grenda, Victor J., 3,634,465.

Grier, Nathaniel, 3,679,622.

Hammes, Paul A.; and Morse, Lewis D., 3,652,290.

Hannah, John, 3,639,597.

Harmetz, Ronald; and Tull, Roger J., 3,644,380.

Hendlin, David; Stapley, Edward O.; Del Val, Sagrario Mochales; and Mata, Justo M., 3,639,590.

Henry, David W.; Hoff, Dale R.; and Patchett, Arthur A., 3,632,817.

Henry, David W., 3,644,392.

Henry, David W.; and Hoff, Dale R., 3,646,016.

Hinkley, David F.; and Budavari, John, 3,636,158.

Hinkley, David F.; and Conn, John B., 3,647,858.

Hinkley, David F., 3,671,549.

Hinkley, David F.; and Ellsworth, Robert L., 3,676,482.

Hinkley, David F., 3,690,901.

Hinkley, David F., 3,700,730.

Hoff, Dale R.; and Henry, David W., 3,637,702.

Hoff, Dale R.; and Fisher, Michael H., 3,646,049.

Hoff, Dale R.; and Rooney, Clarence S., 3,700,685.

Hoff, Dale R.; and Rooney, Clarence S., 3,702,330.

Hoinowski, Alexander M.; and Hinkley, David F., 3,636,093.

Howe, Eugene E.; and Huff, Jesse W., 3,636,210.

Hucker, Howard B.; and Christy, Marcia E., 3,660,389.

Jensen, Norman P.; Shen, Tsung-Ying; and Windholz, Thomas B., 3,655,901.

Jensen, Norman P.; Shen, Tsung-Ying; and Windholz, Thomas B., 3,657,441.

Johnston, David B. R.; Maag, Theodore A.; and Shen, Tsung-Ying, 3,689,671.

Jones, Howard, 3,644,500.

Jones, Howard, 3,654,313.

Jones, Howard, 3,668,223.

Jones, James H.; and Cragoe, Edward J., Jr., 3,660,397.

Kollonitsch, Janos; and Scott, Alan N., 3,666,644.

Kollonitsch, Janos; and Gal, George, 3,666,838.

Lampson, George P.; Tytell, Alfred A.; Field, Arthur K.; and Hilleman, Maurice R., 3,666,646.

Leach, Herbert L., 3,631,579.

Lederer, Seymour J., 3,658,700.

Lee, Leonard S.; Uyeda, Yoshio; and Heneghan, Leo F., 3,697,322.

Loeffler, Larry J., 3,634,499.

Loeffler, Larry J., 3,641,128.

Loeffler, Larry J., 3,641,129.

Loeffler, Larry J., 3,666,790.

Lotti, Victor J., 3,658,968.

Macartney, Carl H.; and Bawduniak, Joseph A., 3,675,469.

McManus, Edward C.; and Rogers, Edward F., 3,655,888.

Miller, Thomas W., 3,641,063.

Morgans, David J.; Bavitz, Joseph F.; and Castello, Robert A., 3,655,742.

Morse, Lewis D.; and Hammes, Paul A., 3,701,668.
 Mrozik, Helmut, 3,646,202.
 Patanelli, Dolores J.; and Arth, Glen E., 3,670,079.
 Patchett, Arthur A., 3,705,920.
 Pines, Seemon H.; and Slettinger, Meyer, 3,676,453.
 Pollak, Peter I.; Wendler, Norman L.; and Christensen, Burton G., 3,649,619.
 Pollak, Peter I.; Wendler, Norman L.; and Christensen, Burton G., 3,652,739.
 Porter, Curt C., 3,701,831.
 Porter, Curt C., 3,701,832.
 Putter, Irving, 3,699,158.
 Reinhold, Donald F.; Slettinger, Meyer; and Chemerda, John M., 3,658,876.
 Robinson, Franklin M.; and Anderson, Paul S., 3,700,734.
 Ruyle, William V.; Sarett, Lewis H.; and Matzuk, Alexander R., 3,674,870.
 Ruyle, William V.; Sarett, Lewis H.; and Matzuk, Alexander R., 3,681,445.
 Saari, Walfred S., 3,652,769.
 Saari, Walfred S., 3,671,636.
 Sarett, Lewis H.; and Ruyle, William V., 3,676,451.
 Schoenewaldt, Edwin F., 3,689,508.
 Schoenewaldt, Erwin F.; Hazen, George G.; and Shuman, Richard F., 3,660,372.
 Shen, Tsung-Ying; Walford, Gordon L.; Witzel, Bruce E.; and Jones, Howard, 3,632,760.
 Shen, Tsung-Ying; and Shunk, Clifford H., 3,637,803.
 Shen, Tsung-Ying; Ruyle, William V.; Witzel, Bruce E.; and Walford, Gordon L., 3,639,624.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,641,134.
 Shen, Tsung-Ying; and Greenwald, Richard B., 3,642,785.
 Shen, Tsung-Ying; Greenwald, Richard; Witzel, Bruce E.; and Walford, Gordon L., 3,642,997.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,646,200.
 Shen, Tsung-Ying; Walford, Gordon L.; and Witzel, Bruce E., 3,652,665.
 Shen, Tsung-Ying; Greenwald, Richard B.; Jones, Howard; Linn, Bruce O.; and Witzel, Bruce E., 3,654,349.
 Shen, Tsung-Ying; Ruyle, William V.; Walford, Gordon L.; and Witzel, Bruce E., 3,655,679.
 Shen, Tsung-Ying; and Walford, Gordon L., 3,655,692.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,655,693.
 Shen, Tsung-Ying; Witzel, Bruce E.; Walford, Gordon L.; and Ruyle, William V., 3,655,697.
 Shen, Tsung-Ying; and Maag, Theodore A., 3,657,428.
 Shen, Tsung-Ying; Walford, Gordon L.; Witzel, Bruce E.; and Bugianesi, Robert L., 3,657,430.
 Shen, Tsung-Ying; Walford, Gordon L.; and Witzel, Bruce E., 3,657,431.
 Shen, Tsung-Ying; Walford, Gordon L.; and Witzel, Bruce E., 3,657,432.
 Shen, Tsung-Ying; Walford, Gordon L.; and Witzel, Bruce E., 3,660,403.
 Shen, Tsung-Ying; Matzuk, Alexander R.; and Dorn, Conrad P., Jr., 3,668,212.
 Shen, Tsung-Ying; and Dorn, Conrad P., Jr., 3,671,580.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,674,843.
 Shen, Tsung-Ying; Jones, Howard; Witzel, Bruce E.; and Walford, Gordon L., 3,674,844.
 Shen, Tsung-Ying; Ruyle, William V.; Witzel, Bruce E.; and Walford, Gordon L., 3,674,875.
 Shen, Tsung-Ying; and Boswell, Kay H., 3,676,422.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,678,094.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,682,968.
 Shen, Tsung-Ying; and Jones, Howard, 3,687,971.
 Shen, Tsung-Ying; Matzuk, Alexander R.; and Dorn, Conrad P., Jr., 3,691,193.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,700,773.
 Shen, Tsung-Ying, 3,700,776.
 Shen, Tsung-Ying; Johnston, David B. R.; and Maag, Theodore A., 3,702,362.
 Shen, Tsung-Ying; Ruyle, William V.; Walford, Gordon L.; and Witzel, Bruce E., 3,703,582.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,706,792.
 Sklarz, William A.; Grenda, Victor J.; Lindberg, Glenn W.; and Epstein, Albert D., 3,644,391.
 Slettinger, Meyer; Karady, Sandor; Ly, Manuel G.; and Pines, Seemon H., 3,676,480.
 Spangler, Herbert D.; and Walker, William G., 3,689,641.
 Sprague, James M.; and Ziegler, Carl, 3,706,790.
 Stapley, Edward O.; Mata, Justo M.; Wolf, Frank J.; and Miller, Thomas W., 3,692,633.

Tull, Roger J.; Tristram, Edward W.; and Rosegay, Avery, 3,637,812.
 Wagner, Arthur F.; Wittreich, Paul E.; and Sarett, Lewis H., 3,666,755.
 Walton, Edward, 3,654,262.
 Weinstock, Leonard M.; Tull, Roger J.; and Pollak, Peter I., 3,636,209.
 White, Raymond F., 3,657,072.
 White, Raymond F.; and Demain, Arnold L., 3,681,198.
 Windholz, Thomas B.; Patchett, Arthur A.; and Fried, John, 3,642,841.
 Witzel, Bruce E., 3,644,626.
 Witzel, Bruce E.; Shen, Tsung-Ying; Graham, Patricia M.; Clark, Robert L.; and Pessolano, Arsenio A., 3,654,291.
 Witzel, Bruce E., 3,655,897.
 Wolf, Frank J.; Miller, William J.; and Chaiet, Louis, 3,683,073.
 Woodruff, Harold Boyd; and Stoudt, Thomas H., 3,686,393.
 Ziegler, Carl; and Sprague, James M., 3,647,873.
 Ziegler, Carl; and Sprague, James M., 3,663,615.
 Merck & Co., Inc., *mesne*: *See*—
 Grier, Nathaniel, 3,678,168.
 Merck, E. A. G.: *See*—
 Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Schorre, Gustav; Hovy, J. W. Hermann; and Schorsch, Ernst, 3,669,956.
 Irmscher, Klaus; and Bruckner, Klaus, 3,705,915.
 Lettre, Hans; and Fitzgerald, Thomas J., 3,641,146.
 Merck, E., Aktiengesellschaft: *See*—
 Irmscher, Klaus; and Orth, Dieter, 3,684,800.
 Kramer, Josef; Irmscher, Klaus; Voge, Hans-Otto; and Halpaap, Herbert, 3,689,663.
 Scharf, Hans-Dieter; Droste, Wilhelm; and Liebig, Rita, 3,641,057.
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 Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Schorre, Gustav; Hovy, Jan Willem; and Schorsch, Ernst, 3,669,972.
 Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Schorre, Gustav; Hovy, Jan Willem Herman; and Schorsch, Ernst, 3,669,973.
 Habermehl, Gerhard; and Haaf, Arthur, 3,655,649.
 Hartel, Arnold; Helger, Roland; and Lang, Hermann, 3,689,364.
 Heitz, Walter; and Pfizner, Klaus, 3,681,269.
 Irmscher, Klaus; Cimbolek, Gerhard; Kraft, Hans-Gunther; and Harting, Jürgen, 3,681,409.
 Jonas, Rochus; and Muller-Calgan, Helmut, 3,681,393.
 Joos, Alfred; and Wirtz, Walter, 3,657,261.
 Koppe, Volker; Schulte, Karl; Schliep, Hans-Joachim; and Schorsch, Ernst, 3,649,631.
 Krafczyk, Friedrich; and Helger, Roland, 3,657,118.
 Kramer, Josef; Halpaap, Herbert; and Freisberg, Karl-Otto, 3,637,718.
 Mehrhof, Werner; Irmscher, Klaus; Hecht-Lucari, Giorgio; Kraft, Hans-Gunther; and Kieser, Hartmut, 3,639,599.
 Pfizner, Klaus; and Krafczyk, Friedrich, 3,657,117.
 Pohl, Ludwig; and Eckle, Manfred, 3,657,147.
 Rossler, Hubert; Halpaap, Herbert; and Klatyk, Knut, 3,701,678.
 Schmidt, Karl Gunther; Joos, Alfred; Mohr, Gunther; and Schneider, Gerhart, 3,634,443.
 Schmitt, Dieter; Stein, Alfred; and Baumer, Wilhelm, 3,661,532.
 Schmitt, Dieter; Stein, Alfred; and Baumer, Wilhelm, 3,697,225.
 Schorre, Gustav; Nowak, Herbert; and Saiko, Otto, 3,658,825.
 Unger, Richard; Seitz, Georg; Klockow, Michael; and Mehrhof, Werner, 3,686,164.
 Merckbach, Heinrich; Glabisch, Dietrich; and Bartl, Herbert, to Farbenfabriken Bayer Aktiengesellschaft. Pigmented paints. 3,651,001, 3-21-72, Cl. 260-29.6.
 Merco Products, Inc.: *See*—
 Auld, John R., 3,646,319.
 Mac Donald, Rodney A., 3,661,486.
 Mercury Metal Products, Inc.: *See*—
 Stadel, Bertil; and Høglund, Edward, 3,633,558.
 Mercury Processors, Inc.: *See*—
 Stratton, Edwin F., 3,662,998.
 Merdes, Hartmut: *See*—
 Berger, Herbert; Gall, Rudi; Merdes, Hartmut; Stach, Kurt; Voemel, Wolfgang; and Sauer, Winfriede, 3,704,301.
 Berger, Herbert; Gall, Rudi; Merdes, Hartmut; Stach, Kurt; Sauer, Winfriede; and Voemel, Wolfgang, 3,706,745.
 Meredith Corporation: *See*—
 Skinner, Burrhus F., 3,650,046.
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 Meredith, Edwin L., Sr. Safety belt buckle construction. 3,704,492, 12-5-72, Cl. 24-223.000.
 Meredith, Gary L., to Tamar Electronics Industries, Inc. Fail-safe vehicle detector system. 3,662,330, 5-9-72, Cl. 340-38.
 Meredith, William Henry Palmer; and Vandeput, Andre. Document presentation device. 3,642,370, 2-15-72, Cl. 355-75.
 Mereen, Donald E.; and Barrett, Jack E. J., to Midwest Communications & Audio, Incorporated. System for selection and remote control with sequential decoding having plural decoding stages. 3,675,205, 7-4-72, Cl. 340-147.000.
 Merez, Henry: *See*—
 Marshall, William A.; Lunkwicz, Bernard Paul; and Merez, Henry, 3,638,636.
 Merez, Otto: *See*—
 Heywood, Basil Jason; and Merez, Otto, 3,652,656.
 Merezko, Gennady Pavlovich: *See*—
 Kotov, Evgeny Pavlovich; Legostov, Viktor Vladimirovich; Stepanov, Evgeny Alexeevich; Chuchalov, Alexandr Mikhailovich; Maiorov, Nikolai Kuzmich; Merezko, Gennady Pavlovich; Komarov, Anatoly Semenovovich; and Sosnitsky, Nikolai Georgievich, 3,694,570.
 Merfeld, Michael J.; and Truesdell, Merlyn R., to Century Engineering Corporation. High pressure washer with detergent on-off nozzle. 3,675,851, 7-11-72, Cl. 239-318.000.
 Mergens, Gerald R., to Guyer, Reynolds, Inc. Shipping and display containers. 3,664,494, 5-23-72, Cl. 206-44.
 Merger, Franz: *See*—
 Fuchs, Werner; and Merger, Franz, 3,696,005.
 Platz, Rolf; and Merger, Franz, 3,641,117.
 Platz, Rolf; and Merger, Franz, 3,641,118.
 Merger, Franz; Platz, Rolf; and Nebe, Erich. Production of 2,2,4-trimethyl-3-hydroxypentanal. 3,673,258, 6-27-72, Cl. 260-602.000.
 Merger, Franz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acrylic ureides. 3,686,304, 8-22-72, Cl. 260-553.00e.
 Mergerian, Dickron: *See*—
 Bozanic, Donald A.; Minarik, Ronald W.; and Mergerian, Dickron, 3,663,952.
 Bozanic, Donald A.; Mergerian, Dickron; and Minarik, Ronald W., 3,671,855.
 Fisher, Peter D.; Mergerian, Dickron; and Minarik, Ronald W., 3,691,383.
 Mergerian, Dickron, to Westinghouse Electric Corporation. Cyclotron resonance frequency-selective limiter using inhomogeneous RF magnetic field. 3,673,500, 6-27-72, Cl. 325-473.000.
 Merges, John C., Jr.: *See*—
 Duling, Irl N.; and Merges, John C., Jr., 3,665,068.
 Ware, Richard E.; and Merges, John C., Jr., 3,704,145.
 Merges, John C., Jr.; and Ware, Richard E., to Sun Oil Company. Investment casting wax. 3,667,979, 6-6-72, Cl. 106-268.
 Mergy, James I., to Curwood, Inc. Thermo-formable plastic material for making semi-rigid plastic packages. 3,674,626, 7-4-72, Cl. 161-165.000.
 Merhar, Donald M., to Honeywell Inc. Piezoelectric vehicle impact sensor. 3,701,903, 10-31-72, Cl. 307-9.000.
 Merhof, Wilfried; and Noser, Renato, to Aktiengesellschaft Brown, Boveri & Cie. Exciter arrangement for synchronous motors. 3,667,014, 5-30-72, Cl. 318-167.
 Meri, Kalju, to Electrospace Corporation. Telephone ringing signal detector and line answering means. 3,683,122, 8-8-72, Cl. 179-84.00r.
 Merian, John A.: *See*—
 Adams, Richard C.; Merian, John A.; and McGlashan, John, 3,653,177.
 Meriano, Albert P.; Fuller, Giles A.; and Knuth, William H., to Aerojet-General Corporation. Direction and braking control for fluid cushion vehicles. 3,698,507, 10-17-72, Cl. 180-119.000.
 Merianos, John J.: *See*—
 Wakeman, Reginald L.; and Merianos, John J., 3,652,771.
 Merianos, John J.; Shay, Edward Griffin; Adams, Phillip; and Petrocci, Alfonso N., to Millmaster Onyx Corporation. N-(Halogenated biphenyl)-diethylene triamines. 3,663,620, 5-16-72, Cl. 260-570.5.
 Merideth, John G. Modular structural plaque assembly. 3,699,738, 10-24-72, Cl. 52-578.000.
 Meridian Industries, Inc.: *See*—
 Bolinger, John F., 3,639,777.
 Bolinger, John F., 3,646,359.
 Bolinger, John F., 3,660,674.
 Bolinger, John F., 3,684,896.

Merigan, Thomas C., Jr.; Eckstein, Fritz; and De Clercq, Eric Desire Alice, to Leland Stanford Junior University, The Board of Trustees of the. Synthetic polynucleotides. 3,687,808, 8-29-72, Cl. 195-28.00n.
 Meriggi, Vincenzo, to Coffee Corporation, S.A. Coffee bar machine. 3,682,090, 8-8-72, Cl. 99-289.000.
 Merigo, Miguel A.: *See*—
 Anderson, Roy E.; and Merigo, Miguel A., 3,680,121.
 Merillat, Robert D.: *See*—
 Koens, Jeffrey G.; and Merillat, Robert D., 3,698,072.
 Merino Del Rio, Jose Luis: *See*—
 Martinez-Alvarez, Francisco; Ruiz, Ricardo Garcia; De Porras, Jaime Molinae; Merino Del Rio, Jose Luis; and Bertsch, Walter, 3,655,789.
 Merino, Dennis H.; and Schlau, Floyd E., to Mattel, Inc. Hand held timer-lap counter toy. 3,691,757, 9-19-72, Cl. 58-76.000.
 Meripol, Robert B., to Dresser Industries, Inc. Oil well pump with permanent connections and a plunger therefor. 3,689,206, 9-5-72, Cl. 417-547.000.
 Merit Abrasive Products, Inc.: *See*—
 Block, Aleck, 3,678,633.
 Merit Abrasive Products, Inc., *mesne*: *See*—
 Block, Aleck, 3,648,417.
 Merit-Werk Merten & Co. KG: *See*—
 Geisler, Heinz, 3,648,493.
 Meriz, Miquel Casas. Adjustable support beam. 3,703,269, 11-21-72, Cl. 248-354.00l.
 Merk, Fritz; Debus, Gerhard; and Muller, Herbert Ewald, to Kalle Aktiengesellschaft. Process for forming a microfiche. 3,645,823, 2-29-72, Cl. 156-247.
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 Merkel, Joseph R., to Lehigh University. Method of producing collagenase with a species of vibrio. 3,677,900, 7-18-72, Cl. 195-66.00r.
 Merkel, Karl: *See*—
 Hoffmann, Herwig; Lissner, Oskar; Merkel, Karl; and Scholz, Heinrich, 3,658,728.
 Merkenich, Karl: *See*—
 Gabler, Hellmut; Harnisch, Heinz; Heymer, Gero; Merkenich, Karl; and Pirig, Wolf-Dieter, 3,639,287.
 Grimm, Dieter; Kandler, Joachim; Merkenich, Karl; and Pirig, Wolf-Dieter, 3,676,352.
 Heymer, Gero; Landgraber, Herbert; and Merkenich, Karl, 3,639,289.
 Merckenschlager, Hans-Hermann, to Siemens Aktiengesellschaft. Process for the production of a circuit board. 3,675,318, 7-11-72, Cl. 29-624.000.
 Merckenschlager, Hans-Hermann, to Siemens Aktiengesellschaft. Process of producing plated through-hole printed circuit boards. 3,702,284, 11-7-72, Cl. 204-15.000.
 Merker, Joachim: *See*—
 Fischer, David; Kohler, Rudolf; Roos, Hugo; and Merker, Joachim, 3,685,845.
 Merker, Reuven; and Lucca, Salvatore, to Metalux Corporation, The. Method for electroplating nickel. 3,655,532, 4-11-72, Cl. 204-49.
 Merkin, Billie C.: *See*—
 Klingensmith, James D.; and Merkin, Billie C., 3,633,327.
 Merkin, Billie C., to Aluminum Company of America. Wall structure with snap-on header and sill members. 3,631,647, 1-4-72, Cl. 52-300.
 Merkin, Billie C., to Aluminum Company of America. Sill anchoring structure. 3,664,078, 5-23-72, Cl. 52-293.
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 Merkle, Eberhardt, to Bleyle, Wilhelm, KG. Apparatus for the impaling of weft-knitted and warp-knitted goods on needles. 3,696,764, 10-10-72, Cl. 112-25.000.
 Merkle, Hans: *See*—
 Edmaier, Franz; Stiefel, Walter; and Merkle, Hans, 3,642,062.
 Merkle, Kurt: *See*—
 Gossel, Hartmut; Merkle, Kurt; Memmel, Ferdinand; and Janousch, Erwin, 3,684,542.
 Merkley, Joseph H.: *See*—
 Kamienski, Conrad W.; and Merkley, Joseph H., 3,691,241.
 Merkley, Joseph Herbert: *See*—
 McElroy, Bobby Joe; and Merkley, Joseph Herbert, 3,678,121.
 Merklin, Kenneth E.: *See*—
 Robinson, Charles W.; Merklin, Kenneth E.; and Finlayson, Francis D., 3,693,795.
 Merknor, Albert H.; Viccili, Alessandro; and McCoy, Robert C.; deceased (by McCoy, Betty May Cornell; legal representative), said Merknor and said Viccili assor. to Heinz, H. J., Company.

- Container unloading and transferring apparatus. 3,653,525, 4-4-72, C. 214-309.
- Merl, Carl J.: *See—*
Lohr, Raymond J.; and Merl, Carl J., 3,706,159.
- Merle, Roger: *See—*
Colin, Pierre; and Merle, Roger, 3,671,398.
- Merli, Carlo: *See—*
Boari, Gianfranco; Liberti, Lorenzo; Merli, Carlo; and Passino, Roberto, 3,679,580.
- Merli, Paoli; and Valbusa, Luigi. Azodicarbonamide fog inhibitors. 3,655,391, 4-11-72, Cl. 96-109.
- Merlin Gerin: *See—*
Amalric, Jean E., 3,701,944.
Balmat, Georges; and Jallet, Jean, 3,639,712.
Bernard, Georges; and Scole, Adrien, 3,633,069.
- Merlin Gerin, Societe Anonyme: *See—*
Charamel, Pierre; Jallet, Jean; Pelenc, Yves; and Voulat, Maurice, 3,657,495.
Ferton, Jean-Yves; Hennebert, Jacques; and Strippoli, Francois, 3,641,295.
Henry, Jean Claude; and Billon, Gerard, 3,701,867.
Henry, Jean-Claude, 3,703,619.
Labbaye, Louis; and Bernard, Georges, 3,675,079.
Leymarie, Claude P. H., 3,674,949.
Pelenc, Yves, 3,679,952.
Remy, Emmanuel M., 3,641,939.
- Merlino, Eugene L., Jr.: *See—*
Dreimanis, Herbert V.; Spisz, Albert S.; Merlino, Eugene L., Jr.; and Ellis, Jonas, 3,664,481.
- Merlino, Thomas R.; Flickinger, John H.; and McFadden, Russell T., to Dow Chemical Company, The. Low temperature curing process and coating compositions suitable therefor. 3,702,349, 11-7-72, Cl. 260-830.00r.
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- Merola, Anthony, to Amerola Products Corporation, mesne. Gripping device. 3,653,708, 4-4-72, Cl. 294-102.
- Merola, Anthony, to Amerola Products Corporation. Billiard ball rack. 3,672,671, 6-27-72, Cl. 273-22.000.
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- Merola, Armando J.: *See—*
Albertson, Noel F.; Rosi, David; and Merola, Armando J., 3,639,410.
- Merold, Robert Lee: *See—*
Shmerling, Zvi; Kiron, Israel; and Merold, Robert Lee, 3,662,919.
- Meroney, Albert H. System for filling a flexible sealable container. 3,646,723, 3-7-72, Cl. 53-390.
- Merrell, Richard G.; and Hendrickson, Melvin C., to Zenith Radio Corporation. Synchronization phase-lock system for a digital vertical synchronization system. 3,691,297, 9-12-72, Cl. 178-69.5tv.
- Merriam, Asaph U.: *See—*
Veltri, Richard D.; Merriam, Asaph U.; and Basche, Malcolm, 3,700,486.
- Merriam, James D.: *See—*
Eisenman, Wesley L.; Arrington, Douglas C.; Bates, Richard L.; Merriam, James D.; and Stierwalt, Donald L., 3,660,659.
- Merriam, John B., to Woodall Industries Inc., mesne. Method of making plastic laminate having high abrasion resistance. 3,661,673, 5-9-72, Cl. 156-279.000.
- Merriam, Marshall F., to Gulf Oil Corporation. Apparatus for power transmission. 3,675,042, 7-4-72, Cl. 307-147.
- Merriam, Mylon, to United States of America, Army. Topographic map and process for symbolizing photographs. 3,667,948, 6-6-72, Cl. 96-44.000.
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- Merrick Scale Mfg. Company: *See—*
Wojcik, Matthew H., 3,636,750.
- Merrick, William C.: *See—*
Maskell, Richard N.; Merrick, William C.; and Voges, Fred P., 3,656,256.
- Merrick, William C.; and Zwierzyna, Casimir E., to Container Corporation of America. Spacer for cased cylindrical objects. 3,635,330, 1-18-72, Cl. 206-3.
- Merrick, Woodrow W.: *See—*
Norris, Clarence G.; and Merrick, Woodrow W., 3,698,068.
- Merrien, Louis: *See—*
Morane, Bruno; Paoletti, Charles; Merrien, Louis; Maurelli, Manlio; and Sathicq, Robert, 3,635,261.
Morane, Bruno; Paoletti, Charles; Merrien, Louis; Sathicq, Robert; and Maurelli, Manlio, 3,659,395.
Morane, Bruno; Maurelli, Manlio; Paoletti, Charles; Merrien, Louis; and Sathicq, Robert, 3,667,652.
- Merrifield, Dudley Bruce: *See—*
May, Walter R.; Merrifield, Dudley Bruce; and Bsharah, Lewis, 3,666,841.
- Merrifield, Richard E.: *See—*
Johnson, Robert C.; and Merrifield, Richard E., 3,656,835.
- Merril, Stewart H.; and Olson, James R., to Eastman Kodak Company. Dry electroscopic toner compositions. 3,694,359, 9-26-72, Cl. 252-62.100.
- Merrill, Alvin S.; and Rosenhan, Bill J., to Moroni Corporation. Open gun sights for small arms. 3,698,091, 10-17-72, Cl. 33-233.000.
- Merrill, Claude L., to Dow Chemical Company, The. Perfluoro-alkyl-containing sulfonate esters. 3,658,872, 4-25-72, Cl. 260-456.
- Merrill, Clifford C.; and Strombeck, Carl E. Interlocking metal shingle construction. 3,667,184, 6-6-72, Cl. 52-530.
- Merrill, Edward J., to Warner-Lambert Pharmaceutical Company. Urea derivatives of dodecahydro-5,9-methanobenzocyclooctenes. 3,689,528, 9-5-72, Cl. 260-482.00c.
- Merrill, Edward W., to Estin, Hans H., Cronkhite, Leonard W., Jr., Wolbach, William W.; trustees of and River, Charles, Foundation, The. Apparatus for removing lipids from the human blood stream. 3,638,639, 2-1-72, Cl. 128-2.
- Merrill, Edward W.; and Wong, Patrick Seck-Lai, to Massachusetts Institute of Technology. Acetalated crosslinked polyvinyl alcohol hydrogels. 3,658,745, 4-25-72, Cl. 260-29.6.
- Merrill, Edward W., to Estin, Hans H., Cronkhite, Leonard W., Jr., Wolbach, William W.; trustees of and River, Charles, Foundation, The. Magnetically operated capsule for administering drugs. 3,659,600, 5-2-72, Cl. 128-172.
- Merrill, Edward W.; and Wong, Patrick Seck-lai, to Massachusetts Institute of Technology. Non-thrombogenic materials and methods for their preparation. 3,673,612, 7-4-72, Cl. 3-1.000.
- Merrill, Edward W., to Estin, Hans H., Cronkhite, Leonard W., Jr., Wolbach, William W.; trustees of and Charles River Foundation, The. Micropump. 3,677,444, 7-18-72, Cl. 222-135.000.
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- Merrill, Edward W., to Estin, Hans H., Cronkhite, Leonard W., Jr., Wolbach, William W.; trustees of and Charles River Foundation, The. Polysiloxanes in admixing with hydrates or carbonates useful for removing hydrocarbons from tobacco smoke. 3,679,625, 7-2-72, Cl. 260-37.0sb.
- Merrill, Edward W., to Estin, Hans H., Cronkhite, Leonard W., Jr., Wolbach, William W.; trustees of and River, Charles, Foundation, The. Exhaust purification. 3,683,626, 8-15-72, Cl. 60-279.000.
- Merrill, Edward W.; and Pikarsky, Jacob M., to Grace, W. R., & Co. Container closure gasket made from a novel plastisol composition. 3,696,956, 10-10-72, Cl. 215-40.000.
- Merrill, John F.: *See—*
Grubel, Stanley J.; and Merrill, John F., 3,633,113.
- Merrill, La Vaun S., Jr.; and Schilson, Robert E., to Marathon Oil Company. Process for the production of synthesis gas, cracked hydrocarbon and calcined coke. 3,676,517, 7-11-72, Cl. 260-679.00r.
- Merrill, Linus R.: *See—*
Dixon, Richard E.; and Merrill, Linus R., 3,701,375.
- Merrill, Marcellus S. Method and apparatus for determining caster trail. 3,680,369, 8-1-72, Cl. 73-117.000.
- Merrill, Richard C.: *See—*
Wright, Archibald N.; and Merrill, Richard C., 3,664,899.
Wright, Archibald N.; and Merrill, Richard C., 3,665,269.
- Merrill, Ronald E. Form for a concrete wall structure. 3,638,382, 2-1-72, Cl. 52-359.
- Merrill, Stewart H.: *See—*
Bloom, Melvin S.; and Merrill, Stewart H., 3,660,083.
Borden, Douglas G.; Unruh, Cornelius C.; and Merrill, Stewart H., 3,647,444.
Contois, Lawrence E.; and Merrill, Stewart H., 3,652,269.
Contois, Lawrence E.; Merrill, Stewart H.; and Grau, George S., 3,655,378.
- Merrill, Stewart H., to Eastman Kodak Company. Novel α - α' -bis(aminobenzylidene) aryldiacetonitrile photoconductors. 3,653,887, 4-4-72, Cl. 96-1.
- Merrill, Stewart H., to Eastman Kodak Company. Process and compositions for protecting images with resin films. 3,669,859, 6-13-72, Cl. 204-181.000.
- Merrill, Stewart H., to Eastman Kodak Company. Photoconductive elements containing polymeric binders. 3,703,371, 11-21-72, Cl. 96-1.600.
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Danti, Bernard R.; Brefka, Paul E.; and Merrill, Wayne S., 3,652,169.
- Merrimac Research and Development Company: *See—*
Cappucci, Joseph D., 3,660,783.
- Merriman, Horace B.; Collier, William A. H.; and Richardson, Barry A., to Wickman Machine Tool Sales Limited. Coining presses. 3,683,667, 8-15-72, Cl. 72-446.000.
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Wayson, Andrew J., 3,664,113.
Wayson, Andrew J.; and DeStefano, Richard T., 3,669,219.
Wayson, Andrew J.; and O'Connell, John T., 3,676,917.
Wayson, Andrew J.; and O'Connell, John T., 3,703,759.
- Merrin, Seymour, to Innotech Corporation. Insulated gate field effect device having glass gate insulator. 3,676,756, 7-11-72, Cl. 317-235.000.
- Merritt, Edward E.: *See—*
Horn, William B.; Merritt, Edward E.; and Schmidt, Delbert D., 3,688,699.
- Merritt, Edward E., to Federal Cartridge Corporation. Shotgun shell wad. 3,662,683, 5-16-72, Cl. 102-42.00c.
- Merritt, George J., to United States of America, Army. Skin cleaner requiring no addition of water for cleaning therewith. 3,634,265, 1-11-72, Cl. 252-107.
- Merritt, Herbert E., to Cincinnati Milacron Inc. Plastication control for injection molding machines. 3,693,946, 9-26-72, Cl. 259-191.000.
- Merritt, John W.: *See—*
Harvey, Wirt T.; and Merritt, John W., 3,638,671.
- Merritt, Richard F.: *See—*
Lewis, Sheldon N.; Merritt, Richard F.; and Emmons, William D., 3,678,098.
Lewis, Sheldon N.; Merritt, Richard F.; and Emmons, William D., 3,694,393.
Lewis, Sheldon N.; Merritt, Richard F.; and Emmons, William D., 3,702,799.
- Merron, George W., to Stanley Works, The. Hand tool with self-locking wedge connection. 3,639,013, 2-1-72, Cl. 306-33.
- Merron Machine Company, The: *See—*
Armstead, George B., Jr.; and Kelly, Edward A., 3,638,594.
- Merry Companies Incorporated: *See—*
Nichols, Charles E., Jr.; and Howard, Gerald T., 3,660,214.
- Merry, Donald D., to Rozinante, Inc. Tape cartridge. 3,642,220, 2-15-72, Cl. 242-55.19.
- Merry, Donald D., to Rozinante Electronic Corporation. Stationary pinch pad. 3,648,941, 3-14-72, Cl. 242-55.19.
- Merry, Jack D.: *See—*
Reiss, Robert Edward; Deuschle, Fritz; Moll, Wayne E.; and Merry, Jack D., 3,650,393.
- Merryman, George B.; and Merryman, Joseph H. Vibration monitoring system. 3,677,077, 7-18-72, Cl. 73-146.000.
- Merryman, Jerry Dale, to Texas Instruments, Incorporated. Digital cathode-ray tube linearity corrector. 3,648,097, 3-7-72, Cl. 315-24.
- Merryman, Joseph H.: *See—*
Merryman, George B.; and Merryman, Joseph H., 3,677,077.
- Merryman, Ralph H.: *See—*
Rackley, John M.; and Merryman, Ralph H., 3,650,476.
- Merryweather, Gerald. Combined rod and reel. 3,685,195, 8-22-72, Cl. 43-18.000.
- Merryweather, Gerald. Combination breadboard and ironing board. 3,688,706, 9-5-72, Cl. 168-152.000.
- Merryweather, Lloyd. Sprinkler head protector. 3,703,992, 11-28-72, Cl. 239-201.000.
- Mersek, Leo D.; and Backus, Robert G., to Ajax Manufacturing Company, The. Wire-working apparatus. 3,688,545, 9-5-72, Cl. 72-285.000.
- Merser, Francis G., to Dennison Manufacturing Company. Article attachment and mounting device. 3,686,717, 8-29-72, Cl. 24-73.0pf.
- Mersereau, Mark; Rohdenizer, Harold L.; Grunwald, John J.; and Innes, William P., to MacDermid Incorporated. Method of making additive printed circuit boards and product thereof. 3,698,940, 10-17-72, Cl. 117-212.000.
- Mersfelder, Philip G. Compression device. 3,675,570, 7-11-72, Cl. 100-90.000.
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Pachmayr, Frank A., 3,672,084.
- Mershon, Randolph J. Covered backwashers. 3,694,865, 10-3-72, Cl. 24-95.000.
- Mersten, Gerald S., to Bendix Corporation, The. BCD to binary converter. 3,649,822, 3-14-72, Cl. 235-155.
- Merta, Stanisla: *See—*
Nemcansky, Jan; and Merta, Stanisla, 3,635,309.
- Mertdogan, Akgun: *See—*
Madronic, Ivo; and Mertdogan, Akgun, 3,666,438.
- Merten, Rudolf: *See—*
Diehr, Hans Joachim; Merten, Rudolf; Uhlig, Konrad; Piechota, Helmut; and Weber, Christian, 3,634,345.
Diehr, Hans Joachim; Merten, Rudolf; and Uhlig, Konrad, 3,644,228.
- Golitz, Hans Dietrich; Merten, Rudolf; Noll, Walter; and Simmler, Walter, 3,663,586.
Oediger, Hermann; and Merten, Rudolf, 3,644,371.
Zecher, Wilfried; and Merten, Rudolf, 3,658,773.
Zecher, Wilfried; and Merten, Rudolf, 3,669,937.
Zecher, Wilfried; and Merten, Rudolf, 3,697,484.
- Merten, Rudolf, to Farbenfabriken Bayer Aktiengesellschaft. Bishydantoins. 3,639,418, 2-1-72, Cl. 260-309.5.
- Merten, Rudolf; Dunwald, Willi; and Mielke, Karl-Heinz, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polyhydantoins. 3,642,524, 2-15-72, Cl. 117-128.4.
- Merten, Rudolf; and Wolf, Gerhard Dieter, to Farbenfabriken Bayer Aktiengesellschaft. Hydantoins and polyhydantoins containing carboxylic acid functions. 3,684,774, 8-15-72, Cl. 260-77.50c.
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Leibbrand, Bertus; Mertens, Johan J.; Ploeger, Harm A.; Sluitters, Robert; and Van Assendelft, Leendert, 3,706,192.
- Mertens, Johan J., to American Enka Corporation. Apparatus for crimping and drawing yarn. 3,636,600, 1-25-72, Cl. 28-1.8.
- Mertens, Johann, to Nuclear Waste Systems Company, mesne. Mounting apparatus for remote disengagement and engagement of submersible pumps. 3,667,715, 6-6-72, Cl. 248-327.000.
- Mertens, Peter: *See—*
Vollmann, Heinrich; and Mertens, Peter, 3,636,040.
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- Mertens, Willi, to Siemens Aktiengesellschaft. Insulating tape for producing an insulating sleeve for electrical conductors, impregnated with a thermosetting impregnation epoxy resin mixture. 3,647,611, 3-7-72, Cl. 161-163.
- Mertens, William J., to Avco Corporation. Ammunition round. 3,670,651, 6-20-72, Cl. 102-42.00c.
- Mertens, Wolfgang: *See—*
Herzer, Kurt; and Mertens, Wolfgang, 3,655,241.
- Mertens, Wolfgang, to Herzer, Kurt, Firma. Headrest with adjusting devices. 3,692,356, 9-19-72, Cl. 297-48.000.
- Mertens, Wolfgang, to Herzer, Kurt, Firma. Tilting device for head rest, in particular for vehicle seats. 3,695,699, 10-3-72, Cl. 297-408.000.
- Mertens, Wolfgang, to Herzer, Kurt Company, The. Head rest with energy absorbing head pad, particularly for vehicle seats. 3,706,472, 12-19-72, Cl. 297-397.000.
- Mertwoy, Helen E.: *See—*
Gisser, Henry; and Mertwoy, Helen E., 3,687,922.
- Mertz, George A.: *See—*
Carton, John E.; and Mertz, George A., 3,666,288.
- Mertz, Henry A. Question game including mechanically indexed answer apparatus. 3,696,528, 10-10-72, Cl. 35-9.00r.
- Mertz, Richard S., to American Plant Growers, Inc. Shipping and display package of nursery flats. 3,656,611, 4-18-72, Cl. 206-44.
- Mertzweiler, Joseph K.: *See—*
Cull, Neville L.; Bearden, Roby, Jr.; and Mertzweiler, Joseph K., 3,637,897.
Cull, Neville L.; Bearden, Roby, Jr.; and Mertzweiler, Joseph K., 3,660,518.
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- Mervis, Lawrence J.: *See—*
Wortman, Donald E.; and Mervis, Lawrence J., 3,690,323.
- Merwin, Eugene M.: *See—*
Gelb, John; Merwin, Eugene M.; and Richardson, William B., 3,643,334.
- Merz & Co., Chemische Fabrik: *See—*
Scherer, Arthur; and Peteri, Dezzo, 3,705,194.
- Merz, Adolf, to Merz AG Dulliken. Adjustable machine reamer. 3,640,637, 2-8-72, Cl. 408-197.
- Merz AG Dulliken: *See—*
Merz, Adolf, 3,640,637.
- Merz, Edmund H., to Continental Can Company, Inc. One-at-a-time dispenser. 3,706,394, 12-19-72, Cl. 221-75.000.
- Merz, Herbert: *See—*
Hennig, Karl-Friedrich; Reinecke, Erich; Merz, Herbert; Werner, Egon; Isernhagen, Fritz; Holthusen, Erwin; and Klatt, Alfred, 3,695,734.
Schroeder, Hans-Detlef; Merz, Herbert; Langbein, Adolf; Freter, Kurt; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Wick, Helmut, 3,689,492.

- Weber, Karl-Heinz; Merz, Herbert; Zeile, Karl; Giesemann, Rolf; and Danneberg, Peter, 3,660,381.
 Weber, Karl-Heinz; Bauer, Adolf; Merz, Herbert; and Minck, Klaus, 3,678,033.
 Merz, Karl: See—
 Heller, Karl-Heinz; Kreuder, Manfred; and Merz, Karl, 3,637,745.
 Merz, Kenneth A.: See—
 Conniff, Jay P.; Delaney, Vincent N.; and Merz, Kenneth A., 3,641,644.
 Merz, Werner. Apparatus for developing photographic films. 3,682,080, 8-8-72, Cl. 95-93.000.
 Mescher, Harold E.: See—
 Reber, Russell H.; and Mescher, Harold E., 3,659,831.
 Mescheryak, Sergei Nikolaevich: See—
 Pentegov, Igor Vladimirovich; Semergeev, Stepan Ivanovich; Sheikovskiy, Dmitry Alexeevich; Mescheryak, Sergei Nikolaevich; Stemkovskiy, Evgeny Petrovich; Litvin, Leonid Vladimirovich; and Shelest, Nikolai Antonovich, 3,663,909.
 Mescheryak, Sergei Nikolaevich; Stemkovskiy, Evgeny Petrovich; Pentegov, Igor Vladimirovich; Vorona, David Semenovich; and Moravsky, Vladislav Eduardovich. Condenser spot-welding machine. 3,644,699, 2-22-72, Cl. 219-113.
 Mescheryakov, Yuri Alexeevich: See—
 Fedorenko, Anatoly Stepanovich; Mescheryakov, Yuri Alexeevich; Prytkov, Alexandr Alexandrovich; and Tyabirdin, Vladimir Vasilievich, 3,688,148.
 Meseck, Eugene: See—
 Wright, Edward L.; and Meseck, Eugene, 3,673,851.
 Meseck, Eugene T.: See—
 Wright, Edward L.; and Meseck, Eugene T., 3,667,285.
 Mesek, Frederick K.: See—
 Liloia, Gerald J.; May, Louis F., Jr.; Schiff, Norman; Mesek, Frederick K.; Shepherd, Robert C.; and Strickel, William R., 3,663,348.
 Mesek, Frederick K., to Johnson & Johnson. Method for detection of abnormal milk. 3,668,925, 6-13-72, Cl. 73-61.00r.
 Mesek, Frederick K.; and Rapkl, Virginia L., to Johnson & Johnson. Disposable diaper. 3,683,916, 8-15-72, Cl. 128-287.000.
 Meserole, Robert H., to Johns-Manville Corporation. Sleeve for coupling two sections of duct or conduit. 3,689,114, 9-5-72, Cl. 285-373.000.
 Meserve, Forrest Clayton, to Bandage Incorporated. Machine for micro siped tread stock. 3,683,728, 8-15-72, Cl. 83-12.000.
 Meshbane, Alex; and Vilardi, Frank, to Savant Instruments, Inc. Electrophoresis testing apparatus. 3,677,930, 7-18-72, Cl. 204-299.000.
 Meshberg, Philip. Device for co-dispensing two materials. 3,637,114, 1-25-72, Cl. 222-135.
 Meshek, Harry M., to Phillips Petroleum Company. Stream switching and indicating apparatus. 3,633,616, 1-11-72, Cl. 137-554.
 Mesher, Terry Bernard, to Parkson Corporation. Plates for directing the flow of fluids. 3,661,203, 5-9-72, Cl. 165-167.
 Mesiah, Raymond N.; and Chancey, Harold R., to FMC Corporation. Free-flowing cyanuric acids. 3,644,359, 2-22-72, Cl. 260-248.
 Mesiah, Raymond N., to FMC Corporation. Chlorination of cyanuric acid. 3,668,204, 6-6-72, Cl. 260-248.00e.
 Mesiah, Raymond N.; Beck, William F.; and Goldstein, David, to FMC Corporation. Agglomeration of cyanuric acid. 3,705,019, 12-5-72, Cl. 23-313.000.
 Mesich, Frank G., to Celanese Corporation. Conversion of ethylenically unsaturated compounds using heteropolymolybdc and heteropolytungstic acids as catalysts. 3,644,497, 2-22-72, Cl. 260-497.
 Meslener, George John, to RCA Corporation. Sampling decoder for delay modulation signals. 3,670,249, 6-13-72, Cl. 328-110.000.
 Mesley, Nimrod N., to International Business Machines Corporation. Method of preparing glass masters. 3,642,476, 2-15-72, Cl. 96-38.
 Mesmer, Robert E.: See—
 Hudson, Robert B.; Mesmer, Robert E.; and Rose, Roger A., 3,650,686.
 Mesnet, Jean Dominique Francois Gerard; Le Guennec, Raymond Louis; and Dadon, Georges Edouard Louis Leon, to Etat Francais. Apparatus for docking a helicopter. 3,659,813, 5-2-72, Cl. 244-116.000.
 Mesrobian, Verdi. Leaf picker. 3,633,958, 1-11-72, Cl. 294-61.
 Messenger, Carl E., Jr. Crowd mount. 3,648,864, 3-14-72, Cl. 214-136.
 Messenger, David T.: See—
 Hardy, Alan; Messenger, David T.; and Carpenter, Austin T., 3,661,811.
 Messenger, Joseph U.: See—
 Blount, Elmo M.; Snavely, Earl S., Jr.; Messenger, Joseph U.; and Prueger, Nicolas J., 3,677,340.
 Messenger, Joseph U., to Mobil Oil Corporation. Well cementing method employing an oil base preflush. 3,688,845, 9-5-72, Cl. 166-291.000.
 Messer, Ernst; and Singewald, Arno, to Wintershall Aktiengesellschaft. Method of recovering underground deposits of soluble minerals, and apparatus for carrying out the method. 3,695,711, 10-3-72, Cl. 299-2.000.
 Messer Griesheim G.m.b.H.: See—
 Becker, Werner; Farwer, Alfwald; Frank, Georg; Reis, Bernhard; Rohf, Josef; and Auer, Rupert, 3,674,978.
 Borner, Fritz, 3,704,901.
 Diehl, Edmund; and Gutermann, Traugott, 3,642,266.
 Hahne, Siegfried, 3,647,130.
 Hahne, Siegfried, 3,647,131.
 Jager, Albert, 3,653,646.
 Kaiser, Otto, 3,656,311.
 Keller, Horst; and Hahn, Gunter, 3,639,723.
 Lange, Gerhard, 3,663,309.
 Lange, Gerhardt, 3,638,931.
 Lange, Gerhardt, 3,661,654.
 Munch, Gerhard; and Jager, Albert, 3,695,600.
 Neander, Erich, 3,679,191.
 Pfeuffer, Alfred; Kalkhof, Gustav; and Weber, Helmut, 3,704,012.
 Protze, Josef; and Leidl, Max, 3,688,615.
 Roder, Georg Adam, 3,705,781.
 Roeder, Georg; and Ginsberg, Heinz, 3,638,864.
 Schobel, Karl; and Becker, Werner, 3,665,147.
 Spahn, Walter, 3,684,006.
 Stahl, Gerhard; Spahn, Walter; Fischer, Willi; and Auth, Franz, 3,642,258.
 Streich, Martin, 3,656,312.
 Streich, Martin; and Voigt, Hartmut, 3,688,513.
 Tanz, Heiner; and Kaiser, Otto, 3,631,683.
 Wernicke, Hans Joachim; and Reitzenstein, Hermann, 3,666,418.
 Wernicke, Hans-Joachim, 3,669,437.
 Messer, Mayer Naoum: See—
 Farge, Daniel; Messer, Mayer Naoum; and Moutonnier, Claude, 3,641,127.
 Farge, Daniel; Messer, Mayer Naoum; and Moutonnier, Claude, 3,652,666.
 Jeanmart, Claude; Messer, Mayer Naoum; and Simon, Pierre Edouard, 3,644,366.
 Jeanmart, Claude; and Messer, Mayer Naoum, 3,696,116.
 Messer, Thomas V. Combined brush and comb. 3,690,331, 9-12-72, Cl. 132-120.000.
 Messerly, Alfred E. Polyurethane compositions of matter and methods of manufacture. 3,691,117, 9-12-72, Cl. 260-18.00n.
 Messerschmidt, Friedrich, to Bosch, Robert, G.m.b.H. Sealing means for fuel injection valves. 3,703,184, 11-21-72, Cl. 137-509.000.
 Messerschmidt, Sebastian. Ball lapping device. 3,660,942, 5-9-72, Cl. 51-3.
 Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung: See—
 Butter, Karl; and Wittich, Willibald, 3,697,405.
 Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung: See—
 Heinzmann, Werner; and Pfahl, Siegfried, 3,668,851.
 Hofmann, Fritz, 3,670,248.
 Hofmann, Heinrich, 3,687,080.
 Sarten, Paula; and Mair, Winfried, 3,663,322.
 Sarten, Paula; and Mair, Winfried, 3,697,339.
 Thomanek, Franz Rudolf, 3,638,569.
 Messerschmitt-Bolkow-Blohm: See—
 Bastian, Ingbert; and Brogl, Horst, 3,705,299.
 Kratschmar, Herwig; and Madelung, Gero Otto, 3,645,477.
 Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung: See—
 Baum, Werner, 3,672,165.
 Butter, Karl, 3,678,802.
 Singelmann, Dietrich E.; and Hofmann, Heinrich, 3,688,732.
 Ufer, Erich, 3,672,169.
 Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung: See—
 Bogenberger, Richard; Busch, Heinz F. K.; Kroy, Walter; and Mehnert, Walter E., 3,702,378.
 Butter, Karl; Wittich, Willibald; and Theiss, Armin, 3,686,081.
 Butter, Karl, 3,696,676.
 Held, Manfred, 3,651,760.
 Kloss, Helmut, 3,684,214.
 Kranz, Walter, 3,702,079.
 Muller, Heinz-Dieter, 3,647,162.
 Munding, German; and Zeh, Willi, 3,667,241.
 Pfister, Franz; Albrecht, Ernst; Durner, Josef; and Maus, Eicke, 3,687,005.
 Sasse, Reinhard, 3,707,510.
 Schindler, Werner; Schaaff, Karl; and Planitzer, Erich, 3,652,034.
 Schoneborn, Hellmuth, 3,648,286.
 Schutz, Manfred, 3,643,429.
 Sohlemann, Just; and Muller, Gerhard, 3,681,961.
 Spies, Hohann, 3,700,968.
 Spies, Johann, 3,682,098.
 Stetter, Gunter, 3,680,484.
 Stetter, Gunter; and Reinemann, Ullrich, 3,695,180.

- Thomanek, Franz R.; Lallinger, Georg; and Rosner, Hermann, 3,661,086.
 Messerschmitt-Bolkow-Blohm G.m.b.H.: See—
 Assmann, Karl H., 3,667,704.
 Barbacsy, Ludwig-Benno; Koerv, Peter; and Mehnert, Walter E., 3,684,956.
 Boek, Helmut, 3,667,703.
 Bogenberger, Richard; Helmcke, Conrad; and Kritikos, Athanasios, 3,691,533.
 Brauser, Klaus J.; Kritikos, Athanasios; Kroy, Walter; and Mehnert, Walter E., 3,701,131.
 Bschorr, Oskar, 3,685,610.
 Erben, Klaus Dieter; Kroy, Walter; and Mehnert, Walter Erich, 3,678,380.
 Erben, Klaus Dieter; Kroy, Walter; and Mehnert, Walter E., 3,681,687.
 Erben, Klaus Dieter; Kroy, Walter; Manhart, Sigmund; and Mehnert, Walter E., 3,691,539.
 Glawleschkoff, Basilius; Krieg, Gebhard; Weidmann, Wolfgang; and Weiss, Adolf, 3,660,691.
 Haberkorn, Erich J.; and Englaender, Klaus, 3,655,150.
 Held, Manfred, 3,685,452.
 Kroy, Walter; and Mehnert, Walter E., 3,657,708.
 Kroy, Walter; Manhart, Sigmund; and Mehnert, Walter Erich, 3,693,169.
 Lincks, Hans, 3,663,130.
 Lincks, Hans; and Weigmann, Erich W., 3,703,266.
 Messervey, Clifford H., to Borden Company, The. Positive two channel can discharge. 3,687,285, 8-29-72, Cl. 209-74.00r.
 Messick, Bobby G.: See—
 Wright, Edward R.; and Messick, Bobby G., 3,660,261.
 Messick, Mikel Jay, to Square D Company. Motor armature current limit system. 3,649,897, 3-14-72, Cl. 318-434.
 Messick, Mikel Jay, to Square D Company. Firing angle advance limit for thyristor bridge power amplifier. 3,699,417, 10-17-72, Cl. 318-257.000.
 Messier: See—
 Lucien, Rene, 3,631,764.
 Messier, Donald R.: See—
 Gazza, George E.; and Messier, Donald R., 3,681,011.
 Wong, Philip; and Messier, Donald R., 3,661,676.
 Messier, Donald R.; and Gazza, George E., to United States of America, Army. Preparation of ultrafine mixed metallic-oxide powders. 3,681,010, 8-1-72, Cl. 23-20.000.
 Messier, Douglas Arthur: See—
 Des Champs, Nicholas Howard; Mayo, Kenneth E.; Messier, Douglas Arthur; and James, Ronald William, 3,663,306.
 Messina, Giuseppe; Montorsi, Giorgio; and Caprara, Giuseppe, to Montecatini Edison S.p.A. Process for the preparation of olefin oxides. 3,699,133, 10-17-72, Cl. 260-348.50v.
 Messina, Joseph E.: See—
 Uttrachi, Gerald D.; and Messina, Joseph E., 3,659,073.
 Messina, Joseph F.; and Gisser, Henry, to United States of America, Army. Grease compositions. 3,639,241, 2-1-72, Cl. 252-54.6.
 Messina, Joseph F.; and Gisser, Henry, to United States of America, Army. Grease compositions. 3,640,859, 2-8-72, Cl. 252-54.
 Messina, Joseph F.; and Gisser, Henry, to United States of America, Army. Grease compositions. 3,664,956, 5-23-72, Cl. 252-49.600.
 Messina, Joseph F.; and Gisser, Henry, to United States of America, Army. Grease compositions. 3,664,958, 5-23-72, Cl. 252-54.6.
 Messina, Joseph F.; and Gisser, Henry, to United States of America, Army. Extreme pressure, rust preventive synthetic base grease. 3,689,411, 9-5-72, Cl. 252-25.000.
 Messina, Joseph F.; and Gisser, Henry, to United States of America, Army. Extreme pressure, rust preventive nonreactive greases. 3,691,074, 9-12-72, Cl. 252-25.000.
 Messina, Peter: See—
 Rosenzweig, Ronald E.; and Resnick, Joseph, 3,648,269.
 Messina, Steven J., to Ethyl Corporation. Distillate fuel cold flow. 3,658,492, 4-25-72, Cl. 44-62.
 Messing, Ralph A., to Corning Glass Works. Method of stabilizing enzymes. 3,666,627, 5-30-72, Cl. 195-68.000.
 Messing, Theodor, to Standard-Messo Duisburg Gesellschaft fur Chemietechnik mit beschränkter Haftung & Co. Device for removing gas from molten metals contained in a ladle. 3,650,517, 3-21-72, Cl. 266-34.
 Messinger, Werner, to Braun Aktiengesellschaft. Shearing system for dry shavers. 3,696,508, 10-10-72, Cl. 30-43.000.
 Messman, Henry C., 1/2 to d'Ouville, Edmond L. Slow-release fertilizer spike having high crush-resistance. 3,647,416, 3-7-72, Cl. 71-29.
 Messmore, Francis B.: See—
 Gordon, Michael S.; and Messmore, Francis B., 3,662,076.
 Messner, Dieter: See—
 Busch, Walter; Kramer, Heinz; Lind, Erwin; and Messner, Dieter, 3,697,303.
 Messner, Georg, to Nora International Company. Electrolytic cell including bipolar electrodes with resin-impregnated holes in the electrode body. 3,654,120, 4-4-72, Cl. 204-255.
 Messner, Howard P.: See—
 Klotz, Theodore; and Messner, Howard P., 3,688,348.
 Messner, Jack D.: See—
 Koser, Robert F.; and Messner, Jack D., 3,698,575.
 Messner, Jacob. Cover materials for body-supporting articles. 3,681,797, 8-8-72, Cl. 5-347.000.
 Messrs. Eugen Hirschburger KG: See—
 Haag, Karl, 3,633,836.
 Messrs. Hans Grohe K.G.: See—
 Buzzi, Gunter, 3,658,091.
 Messrs. Heilmeyer & Weinlein: See—
 Brunner, Rudolf, 3,667,868.
 Messrs. Kabushiki Kaisha Mitachi Onkyo Seisakusho: See—
 Ikeda, Kazuhiro, 3,665,123.
 Messrs. Paul Troester Maschinenbau: See—
 Muller, Paul C.; and Schneider, Karl H., 3,666,905.
 Messrs. Richter Gedeon Vegyeszeti Gyara Rt: See—
 Kisfaludy, Lajos; Patthy, Agnes, nee Lukats; Dancsi, Lajos; Domok, Livia, nee Kis-Vigh; Karpati, Egon; and Szporny, Laszlo, 3,642,805.
 Messrs. Toyota Jidosha Kogyo Kabushiki Kaisha: See—
 Sato, Kazuo, 3,687,213.
 Messrs. Transporttechnik GmbH: See—
 Weller, Wilhelm, 3,655,013.
 Mesta Machine Company: See—
 Hlafcsak, Joseph L., 3,691,809.
 Lemper, Herbert, 3,670,587.
 Lemper, Herbert; and Snee, William J., Jr., 3,680,400.
 Petros, Andrew J.; and Rybar, Clement S., 3,664,518.
 Sutyak, John J., 3,657,953.
 Metstad, Herbert K. Conveyor attachment for a combine. 3,672,133, 6-27-72, Cl. 56-13.500.
 Mester, Michael L., to United States Steel Corporation. Water-cooled eddy-current transducer for testing product while at high temperature. 3,694,735, 9-26-72, Cl. 324-40.000.
 Mestetsky, Thomas S.; and Smolin, Edwin M., to GAF Corporation. Compositions of poly (alkyl vinyl ether/maleic anhydride) with phosphate ester surfactant. 3,679,623, 7-25-72, Cl. 260-31.20r.
 Mesur-Matic Electronics Corporation: See—
 Newell, Harold R., 3,644,764.
 Newell, Harold R., 3,662,245.
 Newell, Harold R., 3,671,777.
 Newell, Harold R., 3,671,826.
 Meszaros, Daniel. Master shoe last with changeable toe tip portion. 3,663,978, 5-23-72, Cl. 12-133.00b.
 Meszaros, Zoltan; Knoll, Jozsef; and Szentmiklosi, Peter, to Chinoin Gyogyszer-es Vegyeszeti Termek Gyara RT. Pharmaceutical compositions containing homopyrimidazole derivatives. 3,696,197, 10-3-72, Cl. 424-251.000.
 Metabowerke KG: See—
 Stoy, Franz; and Eder, Heinz, 3,654,739.
 Metabowerke KG Closs, Rauch & Schnizler: See—
 Schnizler, Albrecht, Jr., 3,695,344.
 Metaframe Corporation: See—
 Stasio, Robert, 3,669,074.
 Willinger, Allan H., 3,640,302.
 Willinger, Allan H., 3,640,516.
 Willinger, Allan H., 3,669,297.
 Willinger, Allan H., 3,670,758.
 Willinger, Allan H., 3,682,753.
 Willinger, Allan H., 3,687,291.
 Metagraphic Systems, Inc.: See—
 Kinsinger, William Charles, 3,672,756.
 Metal Bellows Corporation: See—
 Zierak, Stephen J.; and Monteiro, Arnold J., 3,677,031.
 Metal Box Company Limited, The: See—
 Arnold, Robert Harry; and Crouch, Cyril Borthwick, 3,642,272.
 Franek, Jozef Tadeusz; and Rhodes, Peter, 3,638,825.
 Franek, Jozef Tadeusz; and Rhodes, Peter, 3,687,099.
 Metal Forming and Coining Corporation: See—
 Clendenin, Norbert T.; and Corum, Tillman L., 3,691,804.
 Metal Improvement Company, Inc.: See—
 Koenecke, William J.; and Lazar, Joel R., 3,654,786.
 Koenecke, William J., 3,667,196.
 Morris, John W., 3,668,913.
 Smith, Glenn D., 3,695,091.
 Metal Innovations, Inc.: See—
 Ayers, Maurice Donald, 3,646,176.
 Ayers, Maurice Donald, 3,686,376.
 Metal Processing Co., Inc.: See—
 Greis, Paul F., 3,682,094.
 Metal Products Corporation: See—
 Lynch, Earl D., 3,670,466.
 Metal sliding window: See—
 Gartner, Karl; and Gartner, Joseph, & Co., 3,694,959.
 Metal Window Products, Inc.: See—
 Shaper, Roger T.; and Germann, John E., 3,653,370.
 Metal-Matic, Inc.: See—
 Mommson, Adolph C., 3,695,645.
 Mommson, Adolph C., 3,695,646.
 Metalem S.A.: See—
 Feller, Gilbert, 3,675,295.
 Metalife Company, The: See—

- Chappell, Albert R., 3,661,292.
 Metalimpex Acel es Fenkulkereskedelmi Vallalat: *See—*
 Fekete, Laszlo; Pataricza, Imre; Bodi, Dezso; Gyuricza, Jozsef; Miskei, Mihaly; and Orszag, Ferenc, 3,650,688.
 Metalines, Inc.: *See—*
 Armstrong, Gary E., 3,696,575.
 Metallgesellschaft Aktiengesellschaft: *See—*
 Affeldt, Hans, 3,649,325.
 Bechthold, Horst; Dittmar, Heinz; Heinz, Ernst; and Rennhack, Rolf, 3,633,887.
 Borgstedt, Hans-Ulrich; Ruhle, Manfred; and Wincierz, Peter, 3,677,723.
 Bratzler, Karl; Herbert, Wilhelm; Hoehne, Reinhard; and Storp, Klaus, 3,637,352.
 Bratzler, Karl; Doerges, Alexander; Hochgesand, Gerhard; and Grunewald, Gerhard, 3,653,810.
 Dorschner, Oskar; Carduck, Franz Josef; Storkebaum, Christoph; and Rother, Claus, 3,655,862.
 Dorschner, Oskar; Carduck, Franz Josef; and Storkebaum, Christoph, 3,692,618.
 Drechsel, Herbert; Rowedder, Gustav; Dorr, Karl-Heinz; and Grimm, Hugo, 3,656,900.
 Grimm, Peter, 3,698,844.
 Grob, Karl; Oertter, Josef; and Wiesner, Paul, 3,687,844.
 Heitmann, Guenter, 3,667,933.
 Heitmann, Gunter, 3,663,201.
 Heitmann, Gunter, 3,705,795.
 Hohne, Reinhard, 3,634,028.
 John, Willibald; Schmalfeld, Paul; Lange, Paul; and Rammler, Roland, 3,700,564.
 Laue, Hans-Jurgen Rainer; Bohm, Horst Otto; and Reddemann, Bernhard Hermann, 3,674,470.
 Maelzer, Carl-August; and Reh, Lothar, 3,687,656.
 Matern, Konrad, 3,635,665.
 Menigat, Richard, 3,687,094.
 Meyer, Kurt; Rausch, Hans; and Thumm, Wilhelm, 3,645,717.
 Meyer, Kurt; and Thumm, Wilhelm, 3,682,620.
 Meyer, Kurt; Reuter, Gerhard; and Thumm, Wilhelm, 3,684,485.
 Muller, Eckart; Eisenlohr, Karl Heinz; and Klein, Helmut, 3,707,575.
 Nagel, Horst; Thumm, Wilhelm; Garbe, Horst; Dailey, William H.; Goedeke, Egon; and Dadazynski, Rolf, 3,704,088.
 Rammler, Roland; and Schmalfeld, Paul, 3,703,442.
 Reh, Lothar; Schmidt, Werner Hans; and Rosenthal, Karlheinz, 3,672,069.
 Reuter, Gerhard; and Werner, Dietrich, 3,684,483.
 Roeder, Gordon A.; and Dailey, William H., 3,689,250.
 Schindling, Josef; and Muller, Hermann, 3,635,003.
 Schmalfeld, Paul; Sommers, Hans; and Janssen, Heinrich, 3,655,518.
 Schmalfeld, Paul; and Hahn, Helmut, 3,705,086.
 Schmidt, Hans Joachim; and Voeste, Theodor, 3,701,793.
 Sibakin, Jaroslav George; Roeder, Gordon Alan; and Hookings, Paul Henry Heathcote, 3,690,867.
 Thom, Gee Wing; and Wilson, Keith, 3,666,871.
 Von Struve, George; and Cappel, Fred, 3,682,621.
 Wincierz, Peter; Ruhle, Manfred; Reddemann, Bernhard H.; Schirra, Manfred; and Bohm, Horst Otto, 3,635,700.
 Metallgesellschaft Aktiengesellschaft und Bergwerks-Verban: *See—*
 Schmalfeld, Paul; Janssen, Heinrich; Bock, Burkhard; Peters, Werner; and Ahland, Erwin, 3,674,449.
 Metallic Building Company: *See—*
 Chan, Charles S., 3,675,385.
 Metalloxyd Gesellschaft mit beschränkter Haftung: *See—*
 Herrmann, Helmut, 3,663,339.
 Herrmann, Helmut F.; and Dizon, Rolando M., 3,632,486.
 Herrmann, Helmut Friedrich; and Dizon, Rolando M., 3,634,206.
 Metallschlauchfabrik Joseph Ulbrich & Co.: *See—*
 Bohm, Friedrich, 3,670,544.
 Metallurgical Exoproducts Corporation: *See—*
 Rocher, George, 3,651,998.
 Rocher, George; and Orban, Nicholas, 3,672,918.
 Metallurgie Gesellschaft mit beschränkter Haftung: *See—*
 Krauth, Axel; and Teiwes, Hans-Jurgen, 3,668,292.
 Metallurgie Hoboken: *See—*
 De Bie, Edouard, 3,637,439.
 De Bie, Edouard, 3,656,617.
 De Bie, Edouard, 3,659,644.
 Richardson, Frederick Denys, 3,661,749.
 Metallurgie Hoboken-Overpelt: *See—*
 Leroy, Jean L., 3,702,629.
 Metallwerk Plansee: *See—*
 Schedler, Wolfgang; and Bodem, Johann, 3,696,707.
 Metallwerke Neheim Goeke & Co. KG: *See—*
 Meges, Helmut, 3,658,291.
 Metaphoto Corporation: *See—*
 Speakman, John D., 3,702,581.
 Metals Engineering Corporation: *See—*
 Bowen, Elba W., 3,672,619.
 Metals, Inc.: *See—*
 Evans, John D., 3,696,763.
 Metaltronics, Inc.: *See—*
 Harvey, Richard F., 3,661,565.
 Metalux Corporation, The: *See—*
 Merker, Reuven; and Lucca, Salvatore, 3,655,532.
 Metcalf, Arnold; and Bateman, Willis. Steelmaking, 3,695,863, 10-3-72, Cl. 75-60.000.
 Metcalf, Charles B., Jr. Device for separating shrimp from other sea animals, 3,668,801, 6-13-72, Cl. 43-17.100.
 Metcalf, Eric, to Solartron Electronic Group Limited, The. Repetitive sampling weighted function converter, 3,659,086, 4-25-72, Cl. 235-150.510.
 Metcalf, James F.; and Klingerman, Robert H., to Cragmet Corporation. Susceptor, 3,696,223, 10-3-72, Cl. 219-10.490.
 Metcalfe, Albert H.: *See—*
 Crouch, Howard S.; Dickie, Hugh G.; Metcalfe, Albert H.; and Rigbey, Leo J., 3,635,608.
 Metcalfe, Arthur G.; and Rose, Fred K., to International Harvester Company. Metallurgical bonding and forming processes and apparatus, 3,644,698, 2-22-72, Cl. 219-83.
 Metcalfe, Christopher John Leonard: *See—*
 Allum, Keith George; Metcalfe, Christopher John Leonard; and Thomasson, Daniel John, 3,642,658.
 Metcalfe, Joseph E.: *See—*
 Boos, Donald L.; and Metcalfe, Joseph E., 3,634,736.
 Metcalfe, Joseph E., III: *See—*
 Boos, Donald L.; and Metcalfe, Joseph E., III, 3,648,126.
 Metcalfe, Richard T.; and Crandon, Harry D., to American Optical Corporation. Process for coloring epoxy plastic eyeglass frames and parts thereof, 3,678,141, 7-18-72, Cl. 264-22.
 Metco Inc.: *See—*
 Longo, Frank N.; and Patel, Mahesh S., 3,655,425.
 Rotolico, Anthony J.; Vogts, William A.; and Thompson, Henry C., 3,632,952.
 Rotolico, Anthony J.; and Romero, Eduardo, 3,707,615.
 Metelski, Jan: *See—*
 Jalowiecki, Jerzy George; and Metelski, Jan, 3,689,950.
 Meteor AG: *See—*
 Angst, Walter, 3,672,409.
 Meteor Research Limited: *See—*
 Tabor, Paul C., 3,687,488.
 Meteor-Siegen Apparatebau Paul Schmeck G.m.b.H.: *See—*
 Schleifenbaum, Karl, 3,639,055.
 Metevia, Virgil L.; Narlock, Raymond M.; and Mast, Milfred E., to Dow Corning Corporation. Article of silicone rubber having surfaces resistant to dirt pick-up, 3,677,877, 7-18-72, Cl. 161-164.000.
 Meth, Harry: *See—*
 Getgey, William F.; and Meth, Harry, 3,685,828.
 Meth, Harry; and Greenberg, Allen A., to Rainbow Crafts, Inc. Toy extruder, 3,685,936, 8-22-72, Cl. 425-195.000.
 Methfessel, Siegfried: *See—*
 Ahn, Kie Y.; and Methfessel, Siegfried, 3,642,533.
 Methfessel, Siegfried I.: *See—*
 Eastman, Dean E.; Holtzberg, Frederic; and Methfessel, Siegfried I., 3,636,399.
 Methode Development Company: *See—*
 Schroeder, Duane Arthur; Weiss, Alvin Dennis; and Giltner, Benedict Clare, 3,673,117.
 Methode Manufacturing Corporation: *See—*
 Wright, George C.; and Wisniowicz, Leonard F., 3,662,088.
 Methods, Incorporated: *See—*
 Melver, Clement L., Jr., 3,677,110.
 Metil, Ignatius, to Ameron, Inc. Acid catalyst system for furan resins of filler containing acid salts, 3,700,604, 10-24-72, Cl. 252-428.000.
 Metivier, Robert. Gaseous flux distributor, 3,661,368, 5-9-72, Cl. 261-63.
 Metlesics, Werner; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc., 2,3-Dihydro-4-hydroxy-5-phenyl-1H-1,4-benzodiazepines and preparation thereof, 3,644,336, 2-22-72, Cl. 260-239.
 Metlesics, Werner; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc., 2,3,4,9-Tetrahydro-9-phenyl-oxazirino [2,3-d] [1,4] benzodiazepines and preparation thereof, 3,644,419, 2-22-72, Cl. 260-333.
 Metlesics, Werner; and Wehrli, Pius Anton, to Hoffmann-La Roche Inc. Complexes of aluminum trichloride or borontrifluoride with hydroquinone and preparation thereof, 3,651,113, 3-21-72, Cl. 260-448.
 Metra Electronics Corporation: *See—*
 Cafiero, Gaspar, 3,681,172.
 Cafiero, Gaspar, 3,694,294.
 Metrailler, William J., to Esso Research and Engineering Company. Process for coking heavy hydrocarbons in a single vessel, 3,702,819, 11-14-72, Cl. 208-127.000.
 Metral, Jean-Pierre: *See—*
 Coppen, Alec James; and Metral, Jean-Pierre, 3,641,236.

- Metreud, Claude G., to International Business Machines Corporation. Semiconductor processing apparatus, 3,675,563, 7-11-72, Cl. 95-89.00r.
 Metritape, Inc.: *See—*
 Ehrenfried, Albert D.; Niejadlik, John; and Pierce, Norton T., 3,653,262.
 Ehrenfried, Albert D.; Niejadlik, John; and Pierce, Norton T., 3,663,881.
 Metrix Data Systems, Inc.: *See—*
 Fiannaca, James R., 3,638,234.
 Metro Data Corporation: *See—*
 Dalke, James A., 3,705,342.
 Metro Machine & Engineering Corporation: *See—*
 Gauvin, Robert D., 3,656,700.
 Metro, Stephen J.: *See—*
 Bosniack, David S.; and Metro, Stephen J., 3,634,242.
 Coburn, John F.; and Metro, Stephen J., 3,642,632.
 Metro, Stephen J.; and Shaub, Harold, to Esso Research and Engineering Company. Quinone phosphates as lubricant additives, 3,671,434, 6-20-72, Cl. 252-49.800.
 Metro-Goldwyn-Mayer British Studios Limited: *See—*
 Howard, Thomas W., 3,634,004.
 Metrodata Systems Inc.: *See—*
 Cook, Robert A., 3,685,031.
 Metrophysics, Inc.: *See—*
 Malek, Fritz J., 3,678,269.
 Simeth, Peter G.; and Seeley, Richard C., 3,645,133.
 Metropolitan Life Insurance Co.: *See—*
 Dick, George W.; and Diamond, Norman, 3,698,630.
 Metropolitan Stevedore Company: *See—*
 Ide, Allan R., 3,633,778.
 Metropolitan Industries, Inc.: *See—*
 Taylor, Robert B., 3,679,254.
 Mets, Edwin J., to General Electric Company. Process for simultaneously gettering, passivating and locating a junction within a silicon crystal, 3,701,696, 10-31-72, Cl. 148-175.000.
 Metsker, William E., to Avco Corporation. Vehicle body construction, 3,637,252, 1-25-72, Cl. 296-31.
 Mette, Herbert B., to Questor Corporation. Sealing construction, 3,664,535, 5-23-72, Cl. 215-11.
 Mettetal, Donald, Jr. Mobile refuse compacting apparatus, 3,691,967, 9-19-72, Cl. 100-100.000.
 Mettler, Hal C. Short wave diathermy circuit, 3,638,657, 2-1-72, Cl. 128-422.
 Mettler Instrumente A.G.: *See—*
 Buchmann, Hans, 3,700,056.
 Menzi, Hans, 3,679,013.
 Mettler Instruments AG: *See—*
 Bommer, Peter; and Menzi, Hans, 3,674,102.
 Strobel, Felix, 3,688,854.
 Metz, Jack L., to Teletype Corporation. Electrostatic printer, 3,641,588, 2-8-72, Cl. 346-75.
 Metz, Jack L., to Teletype Corporation. Momentary multiple contact switch and operating key therefor, 3,671,700, 6-20-72, Cl. 200-160.000.
 Metz, Louis C., to Sperry Rand Corporation. Digital-to-synchro/resolver converter, 3,675,234, 7-4-72, Cl. 340-347.0da.
 Metz, Louis C., to Sperry Rand Corporation. Synchro-to-digital converter, 3,688,303, 8-29-72, Cl. 340-347.50y.
 Metz, Robert Forcier: *See—*
 Knollman, Dieter John Henry; Metz, Robert Forcier; and Reynolds, Howard Lloyd, 3,660,611.
 Metz, Robert Lee; and Greenblum, Carl, to Bunker-Ramo Corporation, The. Graphic display system, 3,648,270, 3-7-72, Cl. 340-324.
 Metz, Thomas A.: *See—*
 Carnevale, Richard J.; Howe, Leland D., Jr.; Metz, Thomas A.; Womack, Karl K.; and Zurla, Frank A., 3,656,123.
 Metz, Thomas A.; and Womack, Karl K., to International Business Machines Corporation. Processor with improved controls for selecting an operand from a local storage unit, an ALU output register or both, 3,651,476, 3-21-72, Cl. 340-172.5.
 Metzendorf, Werner: *See—*
 Egger, Viktor; Lill, Arnulf; and Metzendorf, Werner, 3,695,854.
 Metzeler AG: *See—*
 Darmochwal, Heinz, 3,639,550.
 Eckstein, Walter; and Gah, Ferdinand, 3,637,068.
 Muller, Gerhard, 3,632,706.
 Metzger, Philip C.: *See—*
 Schack, Warren R.; Schmoller, Eugene G.; Shanks, Thomas K.; and Metzger, Philip C., 3,661,073.
 Metzger, Benjamin A.; and Miller, Harry E., to Pryonics, Incorporated. Continuous process brazing method and apparatus, 3,702,692, 11-14-72, Cl. 263-6.00r.
 Metzger, Carl: *See—*
 Rucker, Dietrich; Metzger, Carl; and Eue, Ludwig, 3,657,264.
 Metzger, Carl; Bormann, Dieter; Wegler, Richard; Eue, Ludwig; and Hack, Helmut, to Farbenfabriken Bayer Aktiengesellschaft, 1,2,4-Thiadiazolyl-ureas, 3,686,198, 8-22-72, Cl. 260-306.80d.
 Metzger, Carl P. Fishing lure, 3,685,191, 8-22-72, Cl. 43-42.050.
 Metzger, Ernest: *See—*
 Marggraf, Kurt A.; and Metzger, Ernest, 3,672,232.
 Metzger, Hans Siegfried, to Moeller & Neumann G.m.b.H. Rolling mill or calendar with crown control of the rolls for rolling flat material, 3,659,450, 5-2-72, Cl. 72-237.
 Metzger, Hans Siegfried; and Gilges, Fred, to Moeller & Neumann G.m.b.H. Screw down device for rolling mill frames and calendars, 3,659,451, 5-2-72, Cl. 72-248.
 Metzger, Harold W., to Fischer & Porter Company. Variable-area flowmeter with removable metering tube, 3,691,835, 9-19-72, Cl. 73-209.000.
 Metzger, John A.: *See—*
 Pitzer, Thomas D.; Metzger, John A.; and Lamberty, John M., 3,642,188.
 Metzger, Karl: *See—*
 Heer, Alfred; and Metzger, Karl, 3,641,064.
 Heer, Alfred; and Metzger, Karl, 3,651,098.
 Metzger, Karl George: *See—*
 Ley, Kurt; Eholzer, Ulrich; Metzger, Karl Georg; and Fritsche, Dieter, 3,651,229.
 Ley, Kurt; Eholzer, Ulrich; Nast, Roland; Metzger, Karl Georg; and Fritsche, Dieter, 3,660,391.
 Ley, Kurt; Eholzer, Ulrich; Nast, Roland; Metzger, Karl Georg; and Fritsche, Dieter, 3,686,401.
 Seng, Florin; Key, Kurt; and Metzger, Karl Georg, 3,682,906.
 Metzger, Karl-Georg: *See—*
 Ley, Kurt; Eholzer, Ulrich; Nast, Roland; Metzger, Karl-Georg; and Fritsche, Dieter, 3,694,555.
 Nast, Roland; Ley, Kurt; Eholzer, Ulrich; Metzger, Karl-Georg; and Fritsche, Dieter, 3,639,400.
 Seng, Florin; Ley, Kurt; Metzger, Karl-Georg; and Fritsche, Dieter, 3,639,397.
 Metzger, Lenard M.: *See—*
 Schaufele, Carl N.; and Metzger, Lenard M., 3,707,600.
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 Altherr, Russell G.; Shramovich, Paul F.; and Metzger, Nelson D., 3,640,402.
 Metzger, Reinhold, to VDO Tachometer Werke Adolf Schindling GmbH. Apparatus for the transmission of a rotary movement through the wall of a chamber under pressure, 3,664,202, 5-23-72, Cl. 74-18.1.
 Metzger, Robert W., Jr.: *See—*
 Buck, Robert E.; Metzger, Robert W., Jr.; Rittmann, Albert D.; and Sayers, Eugene H., 3,679,946.
 Metzger, Sidney H., Jr.; and Over, John E., to Mobay Chemical Company. Polyesterurethanes stabilized with iminocarbonates, 3,637,583, 1-25-72, Cl. 260-45.8.
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 Lawson, Robert R.; and Metzinger, Leonard L., 3,695,032.
 Metzler, Charles Walter, Jr., to Westinghouse Electric Corporation. Gas cooled turbine blade, 3,635,585, 1-18-72, Cl. 416-96.
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 Kreuder, Manfred; Metzner, Wolfgang; Sobel, Johannes; Himelmann, Wolfgang; and Nittel, Fritz, 3,687,671.

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Emile, Billy; and Meudon, Jean, 3,685,683.
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Fedi, Leto; Meunier, Jean; and Vertut, Jean, 3,682,208.
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Coin, Rene Georges; Croo, Robert-Justin; and Meuret, Pierre Henri, 3,681,546.
- Meusbarger, Lyle M.: *See—*
Sossala, Harry; Meusbarger, Lyle M.; and Jarnagin, Max L., 3,700,040.
- Meuters, Gunther: *See—*
Preinfalk, Franz; and Meuters, Gunther, 3,703,943.
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Coulter, Stanley M.; and Mevisen, Ernst A., 3,679,195.
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Klauser, Friedrich W.; and Mewes, Fritz W., 3,649,157.
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- Meyer, Alfred: *See—*
Corte, Herbert; and Meyer, Alfred, 3,637,535.
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Schmitt, Peter C.; Vette, Carl W.; and Meyer, Amos J., II, 3,702,899.
- Meyer, Andre: *See—*
Losi, Salvatore; Henzi, Rene; and Meyer, Andre, 3,692,641.
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- Meyer, Burtis W.: *See—*
Sloane, Edwin A.; McKeever, Bruce T.; and Meyer, Burtis W., 3,638,004.
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Barlow, Gordon A.; Meyer, Burton C.; and Glass, Marvin I., 3,638,319.
- Breslow, Jeffrey D.; Glass, Marvin I.; Meyer, Burton C.; Jaworski, Eugene; and Barlow, Gordon A., 3,693,290.
- Glass, Marvin I.; Katzman, Allison W.; and Meyer, Burton C., 3,691,680.
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- Meyer, Charles F.: *See—*
Boley, Robert D.; Meyer, Charles F.; Kiessling, Rudolf H.; and Paape, Kenneth L., 3,683,301.
- Meyer, Clarence G.: *See—*
Janssen, Donovan M.; and Meyer, Clarence G., 3,679,283.
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- Meyer, Curtis E.: *See—*
Sebek, Oldrich K.; and Meyer, Curtis E., 3,671,628.
- Meyer, Daniel A.: *See—*
Das, Balbhadr; and Meyer, Daniel A., 3,658,752.
- Ford, Bryce W.; Meyer, Daniel A.; and Warner, Walter C., 3,699,808.
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- Meyer, Donald: *See—*
Middleton, Richard E.; and Meyer, Donald, 3,706,212.
- Meyer, Donald D.: *See—*
Meltzer, Morris; and Meyer, Donald D., 3,631,908.
- Meyer, Donald R.: *See—*
Arel, Robert W.; and Meyer, Donald R., 3,675,321.
- Carr, Albert A.; and Meyer, Donald R., 3,647,797.
- Carr, Albert A., Jr.; and Meyer, Donald R., 3,634,490.
- Petroske, Robert P.; Artin, Robert L.; and Meyer, Donald R., 3,635,270.
- Meyer, Edward: *See—*
Ruhl, Charles A. L.; Meyer, Edward; and Chatterjea, Probir K., 3,693,503.
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- Meyer, Edward, to GTE Sylvania Incorporated. Glass frit-ceramic powder composition. 3,706,582, 12-19-72, Cl. 106-39.00r.
- Meyer, Emilio G., to Mine Safety Appliances Italiana, S.p.A. Paramagnetic gas measuring device. 3,646,803, 3-7-72, Cl. 73-27.
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- Meyer, Gene P. Hair piece securing device. 3,694,819, 10-3-72, Cl. 3-1.000.
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Magerlein, Helmut; Meyer, Gerhard; and Rupp, Hans-Dieter, 3,662,002.
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- Schopf, Albert; Wallrabenstein, Michael; Rupp, Hans-Dieter; Magerlein, Helmut; Grothahn, Heinz; and Meyer, Gerhard, 3,661,836.
- Schulze, Ulrich; and Meyer, Gerhard, 3,647,878.
- Siggle, Erhard; Kersten, Hilde; and Meyer, Gerhard, 3,682,929.
- Meyer, Gerhard; Grothahn, Heinz; Magerlein, Helmut; Rupp, Hans-Dieter; Michael, Erlenbach; and Schopf, Albert, to Glanzstoff AG. Flame-resistant polyacryloylamidrazone filaments. 3,661,502, 5-9-72, Cl. 8-115.5.
- Meyer, Gerhard; Magerlein, Helmut; and Rupp, Hans-Dieter, to Glanzstoff AG. Process for the production of trichloromethanesulfenyl chloride. 3,673,246, 6-27-72, Cl. 260-543.00h.
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- Meyer, Gilbert R.; and Everett, Rollo J., to CPC International Inc. Low density starch hydrolysates. 3,674,555, 7-4-72, Cl. 127-29.000.
- Meyer, Gunther, to Dynamit Nobel Aktiengesellschaft. Preparation of polyvinylchloride. 3,697,493, 10-10-72, Cl. 260-85.50h.
- Meyer, Hans, to Meyer, Hans, Fabrik Vordruck-Systeme und Organisationsmittel Grossdruckerel und Verlag. Apparatus for separating copying tests. 3,706,405, 12-19-72, Cl. 225-9.004.
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Meyer, Hans, 3,706,405.
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- Meyer, Harold: *See—*
White, Kenneth N., 3,692,075.
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White, Kenneth N.; and Meyer, Harold E., 3,674,328.
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Edl, Wolfgang; Faber, Gebhard; Koehler, Michael; Winter, Heinz; and Meyer, Heinz, 3,645,908.
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Edl, Wolfgang; Meyer, Heinz W.; and Schmid, Dieter, 3,639,370.
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Goldbach, Gunther; and Meyer, Heinz-Hermann, 3,684,760.
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- Meyer, Herbert, to Herald Press, Inc., The. Folder. 3,707,259, 12-26-72, Cl. 229-92.500.
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Friedrich, Hans Joachim; and Meyer, Horst, 3,635,693.
- Heimann, Alfred; Thiele, Horst; and Meyer, Horst, 3,688,716.
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Cuculis, John J.; Meyer, Howard G.; Sim, Van M.; and Sternberger, Ludwig A., 3,642,981.
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- Meyer, Jack R., to Honeywell Inc. Measuring closely spaced pulses using time expansion. 3,668,529, 6-6-72, Cl. 328-129.000.
- Meyer, James A.: *See—*
Loubert, Donald W.; and Meyer, James A., 3,694,608.
- Rejsa, Jack J.; and Meyer, James A., 3,675,567.
- Meyer, John Evert, to RCA Corporation. Decoder circuit employing switches such as field-effect devices. 3,659,118, 4-25-72, Cl. 307-251.
- Meyer, John Evert, to RCA Corporation. Logic circuits employing switches such as field-effect devices. 3,676,705, 7-11-72, Cl. 307-251.000.
- Meyer, John V., to Texas Instruments, Incorporated. Process for making conductive polymers and resulting compositions. 3,673,121, 6-27-72, Cl. 252-511.000.
- Meyer, John V., to Texas Instruments, Incorporated. Electrically heated device employing conductive-crystalline polymers. 3,689,736, 9-5-72, Cl. 219-222.000.
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- Meyer Laboratories, Inc.: *See—*
Mayer, Frederick S., 3,660,107.
- Meyer, Lawrence L.: *See—*
Haefling, James F.; and Meyer, Lawrence L., 3,666,913.
- Meyer, Leo F.: *See—*
Tamol, Ronald A.; and Meyer, Leo F., 3,699,973.
- Tamol, Ronald A.; and Meyer, Leo F., 3,705,588.
- Meyer, Leonard; Ashton, Walter G.; and Siegle, James E., to Star Industries, Inc. Front wheel driven floor scrubber. 3,701,177, 10-31-72, Cl. 15-50.00r.
- Meyer, Leonard S., to Sybron Corporation, mesne. Fiber reinforced resin grating. 3,704,561, 12-5-72, Cl. 52-180.000.
- Meyer, Lewis M.: *See—*
deNora, Vittorio; Meyer, Lewis M.; and Barbato, Alexander L., 3,684,543.
- Meyer, Louis C. Fluid-powered applicator for medicaments. 3,675,651, 7-11-72, Cl. 128-215.000.
- Meyer, Ludwig: *See—*
Von Conrad, Eugen; Rosner, Kurt; and Meyer, Ludwig, 3,659,792.
- Meyer Manufacturing, Inc.: *See—*
Meyer, Roy E., 3,686,498.
- Meyer, Roy E.; and Stember, Daniel L., 3,696,241.
- Meyer, Martin H.: *See—*
Scarnato, Thomas J.; Meyer, Martin H.; and Peacock, Peter J., 3,641,750.
- Scarnato, Thomas J.; Meyer, Martin H.; and Cicci, George B., 3,645,574.
- Scarnato, Thomas J.; and Meyer, Martin H., 3,698,162.
- Meyer, Marvin; Avena, Salvatore; and Leiner, Robert L., to Curtiss-Wright Corporation. Bi-directional torque limiting brake mechanism. 3,659,682, 5-2-72, Cl. 188-134.000.
- Meyer, Max F., Jr.: *See—*
Joyner, Frederick B.; Cash, George O., Jr.; and Meyer, Max F., Jr., 3,697,465.
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De Corso, Serafino M.; and Meyer, Mitchell I., 3,635,018.
- Meyer, Mitchell I.; and Ambrose, Michael J., to Westinghouse Electric Corporation. Spontaneous ignition of fuel in a combustion chamber. 3,707,074, 12-26-72, Cl. 60-39.140.
- Meyer, Montague L., Limited: *See—*
MacDonell, Murray, 3,654,741.
- Meyer, Phillip A. Tractor attachment with variable speed drive unit. 3,695,716, 10-3-72, Cl. 299-25.000.
- Meyer, Pierre: *See—*

Gluntz, Claude; Meyer, Pierre; and Peyrot, Jean, 3,640,982.
 Meyer Products, Inc.: *See—*
 Hanson, Harry I., 3,650,054.
 Miceli, Marc L., 3,706,144.
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 Meyer, Roger Paul: *See—*
 Gomersall, Earl Raymond; Meyer, Roger Paul; and Rejmaniak, Susan English, 3,703,725.
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 Meyer, Roth & Pastor: *See—*
 Wust, Toni, 3,701,253.
 Meyer, Roy E., to Meyer Manufacturing, Inc. Remote fixture lowering device. 3,686,498, 8-22-72, Cl. 240-84.000.
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 Meyer, Rudolf: *See—*
 Kraft, Werner; Kruck, Peter; Meyer, Rudolf; and Scheibitz, Maria, 3,690,885.
 Matejec, Reinhard; Meyer, Rudolf; and Himmelmann, Wolfgang, 3,639,128.
 Saleck, Wilhelm; Himmelmann, Wolfgang; Meyer, Rudolf; Moll, Franz; and Huckstadt, Harlad, 3,637,391.
 Meyer, Theodore N.: *See—*
 Baldwin, William C.; and Meyer, Theodore N., 3,642,253.
 Binnings, Gerald F.; Meyer, Theodore N.; and Riley, Mel J., 3,650,437.
 Binnings, Gerald F.; Meyer, Theodore N.; and Riley, Mel J., 3,654,091.
 Meyer, Urs: *See—*
 Gubler, Kurt; Meyer, Urs; and Brechbuhler, Hans Ulrich, 3,669,976.
 Gubler, Kurt; Meyer, Urs; and Brechbuhler, Hans Ulrich, 3,699,225.
 Meyer, Walter: *See—*
 Buschmann, Klaus; and Meyer, Walter, 3,636,522.
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 Stevens, Justus Bickford; Meyer, Walter William; and Howland, John Sinclair, 3,658,349.
 Meyer, Wilbur A.: *See—*
 Hammer, Kurt F.; and Meyer, Wilbur A., 3,651,827.
 Meyer, Wilhelm, Firma: *See—*
 Klug, Hans, 3,686,786.
 Meyer, William, to Emco Wheaton Inc. Articulated counterbalanced piping apparatus. 3,651,832, 3-28-72, Cl. 137-615.
 Meyer, William H.: *See—*
 Trbovich, Nicholas D.; Meyer, William H.; and Bauer, Paul R., 3,639,871.
 Meyer-Simon, Eugen: *See—*
 Kallrath, Gottfried; Knorre, Helmut; Meyer-Simon, Eugen; and Biegler, Hanns, 3,672,937.
 Kallrath, Gottfried; Knorre, Helmut; Meyer-Simon, Eugen; and Biegler, Hanns, 3,701,675.
 Knorre, Helmut; and Meyer-Simon, Eugen, 3,702,285.
 Schwarz, Rudolf; and Meyer-Simon, Eugen, 3,681,036.
 Meyer-Stoll, Hans Albrecht: *See—*
 Josten, Friedrich; Luckert, Wilhelm; Meyer-Stoll, Hans Albrecht; and Von Minden, Wolfgang, 3,692,721.
 Meyerand, Russell G., Jr.: *See—*
 Lary, Edmund C.; and Meyerand, Russell G., Jr., 3,681,710.
 Meyercord Industries, Inc.: *See—*
 Meyercord, John C., 3,684,110.
 Meyercord, John C., to Meyercord Industries, Inc. Tilt dolly. 3,684,110, 8-15-72, Cl. 214-370.000.
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 Meyerhoefer, Carl H., to General Signal Corporation. Transporter case. 3,688,708, 9-5-72, Cl. 109-29.000.
 Meyerhofer, Carl E.: *See—*
 Meyerhofer, Leonard G.; and Meyerhofer, Carl E., 3,669,362.
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 Rubin, Leon R.; and Meyerhoff, Arthur E., Jr., 3,661,605.
 Meyerle, George M. Burglar alarm system. 3,659,266, 4-25-72, Cl. 340-64.
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 Meyers, Donald N.: *See—*
 Piasecki, Frank N.; and Meyers, Donald N., 3,656,723.
 Meyers, Edward F. Disposable, retractable thermometer jacket. 3,703,892, 11-28-72, Cl. 128-2.00h.
 Meyers Electrocooling Products, Inc.: *See—*
 Meyers, Peter G.; Sweeney, Eric C.; and Brunkhardt, Frederick W., 3,677,422.
 Meyers, Elwood J.; and Falk, Earl J., to Barber-Colman Company. Thrust controller for propulsion systems with commonly driven, controllable pitch propellers. 3,704,077, 11-28-72, Cl. 416-30.00r.
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 Meyers, Joseph A., III: *See—*
 Cahill, Joseph A.; and Meyers, Joseph A., III, 3,666,401.
 Lincoln, Robert M.; and Meyers, Joseph A., III, 3,645,840.
 Lincoln, Robert M.; and Meyers, Joseph A., III, 3,707,437.
 Lincoln, Robert M.; and Meyers, Joseph A., III, 3,707,438.
 Yee, Tucker T.; Cahill, Joseph A.; and Meyers, Joseph A., III., 3,651,138.
 Meyers, Joseph A., III; and Cahill, Joseph A., to Atlantic Richfield Company. Compositions and method for flame-proofing cellulosic materials while simultaneously imparting wrinkle resistance, and articles thereby produced. 3,666,402, 5-30-72, Cl. 8-116.20.
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 Meyers, Richard D.: *See—*
 Meyers, Walter E.; Meyers, Richard D.; and Meyers, Warren H., 3,677,544.
 Meyers, Robert E., to Bendix Corporation, The. Spool valve control for a hydraulic power boost. 3,638,427, 2-1-72, Cl. 60-54.6.
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 Gallagher, John P.; Meyers, Robert M.; Sorg, Earl H.; and Wil-lits, Clark M., 3,697,472.
 Meyers, Stanley Thayer, to Bell Telephone Laboratories, Incorporated. Feedback amplifier with bridge-stabilized output impedance. 3,638,133, 1-25-72, Cl. 330-104.
 Meyers, Walter A., Sr., to Sports Equipment, Inc. Basketball training device. 3,675,921, 7-11-72, Cl. 273-1.50a.
 Meyers, Walter E.; Meyers, Richard D.; and Meyers, Warren H. Baseball practice device. 3,677,544, 7-18-72, Cl. 273-26.00d.
 Meyers, Warren H.: *See—*
 Meyers, Walter E.; Meyers, Richard D.; and Meyers, Warren H., 3,677,544.
 Meyers, Wheeler W., to Corning Glass Works. Article handling. 3,648,865, 3-14-72, Cl. 214-152.
 Meyers, William E.: *See—*
 Hock, Walter L.; and Meyers, William E., 3,667,244.
 Meyers, William F.: *See—*
 Beck, Charles H.; and Meyers, William F., 3,646,425.
 Meyfarth, Herbert J.; and Crosby, John J., to Republic Steel Corporation. Coiling method and apparatus. 3,640,112, 2-8-72, Cl. 72-138.

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 Meylink, John Gary: *See—*
 Miley, Richard Erwin; and Meylink, John Gary, 3,643,636.
 Meyn, John E., to Microdot, Inc. Insulators for multiple conductor connectors. 3,681,517, 8-1-72, Cl. 174-138.00r.
 Meyn, Julius, Jr.: *See—*
 Thiers, Ralph E.; and Meyn, Julius, Jr., 3,669,626.
 Meyncke, Andrew Robert; and Arday, Eugene. Identification camera adapter. 3,633,472, 1-11-72, Cl. 95-1.1.
 Meysenburg, Raymond Richard: *See—*
 Wittren, Richard Arthur; Meysenburg, Raymond Richard; and Tweedy, Robert Hugh, 3,667,504.
 Meystre, Charles: *See—*
 Anner, George; and Meystre, Charles, 3,636,010.
 Anner, George; and Meystre, Charles, 3,641,069.
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 Mezey, Eugene J.; and Laughlin, Robert G., to Procter & Gamble Company, The. Process for the preparation of phosphine. 3,652,437, 3-28-72, Cl. 204-164.
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 Mezey, Frank G. J., to American Technical Ceramics; a division of Phase Industries Inc. High temperature variable capacitor. 3,691,434, 9-12-72, Cl. 317-243.000.
 Mezger, Hans: *See—*
 Piech, Ferdinand K.; and Mezger, Hans, 3,682,018.
 Meziere, Walter G. Wall structure and method of installing same. 3,683,575, 8-15-72, Cl. 52-241.000.
 Mezitt, Robert W.: *See—*
 Bertelson, Richard E.; and Mezitt, Robert W., 3,693,396.
 Mezzadri, Eliseo, to Micafil A.-G. Wire brake. 3,666,199, 5-30-72, Cl. 242-149.000.
 Mezzanotte, Mario: *See—*
 Barassi, Carlo; Lugli, Giuseppe; and Mezzanotte, Mario, 3,656,533.
 Barassi, Carlo; Lugli, Giuseppe; Mezzanotte, Mario; and Guer-mandi, Romano, 3,690,364.
 Mezzaquai, Antonio. Machine for automatically preparing hamburger-type steaks. 3,631,564, 1-4-72, Cl. 17-32.
 Mezzino, Joseph F.: *See—*
 Bentz, Alan P.; and Mezzino, Joseph F., 3,666,494.
 Mgebrishvili, Nadar Nikolaevich: *See—*
 Kiselev, Anatoly Efimovich; Mgebrishvili, Nadar Nikolaevich; Rokva, Marlen Mikhailovich; Makhatazde, Iosif Konstantinovich; Kakhiani, Shalva Viktorovich; Oganov, Sergei Ivanovich; Bakuradze, Georgy Valeryanovich; and Badalov, Petr Mikhailovich, 3,648,475.
 Mhatre, Nagesh Shamrao: *See—*
 Freake, Ronald; Gunter, Claude Ray; Haden, Billy Harper; and Mhatre, Nagesh Shamrao, 3,704,206.
 Mi Con Gunit Equipment, Inc.: *See—*
 Blohm, William A., 3,693,932.
 Mi-Marker Corporation, mesne: *See—*
 Rogers, Murray K., 3,667,990.
 Miag Muhlenbau und Industrie GmbH: *See—*
 Ullner, Klaus, 3,688,997.
 Miale, Joseph N., to Mobil Oil Corporation. Manganese silicate-containing minerals in the form of nodules and their use in hydrocarbon conversion. 3,676,369, 7-11-72, Cl. 252-454.000.
 Miavec, Joseph L.: *See—*
 Schmersal, Larry J.; Miavec, Joseph L.; Pierce, Edward W.; and Wojcik, David S., 3,665,455.
 Mica Corporation, The: *See—*
 Pavlou, James, 3,691,007.
 Mica Trust: *See—*
 Cohn, Morris I.; and Perdue, Roy D., 3,642,511.
 Micafil A.-G.: *See—*
 Mezzadri, Eliseo, 3,666,199.
 Micale, Salvatore. Digital voltmeter using adaptive circuit techniques. 3,634,763, 1-11-72, Cl. 324-99.
 Micallef, Lewis A., to Leeds and Micallef. Safety closure assembly. 3,675,804, 7-11-72, Cl. 215-9.000.
 Micallef, Lewis A., to Leeds and Micallef. Self-restoring dispenser. 3,642,179, 2-15-72, Cl. 222-402.12.
 Miccioli, Aldo R.: *See—*
 Hatcher, Burrell R.; Miccioli, Aldo R.; Mohr, Max C.; and Sheldon, Edward J., 3,706,998.
 Miceli, James V. Vehicular locking device. 3,674,046, 7-4-72, Cl. 137-384.200.
 Miceli, Marc L., to Meyer Products, Inc. Control means for a snow plow. 3,706,144, 12-19-72, Cl. 37-42.000.

Miceli, Vincent J.: *See—*
 Mackey, E. Scudder; and Miceli, Vincent J., 3,676,209.
 Mich, Thomas F.; and Mueller, Werner H., to Monsanto Company. Preparation of adipic acid by nitric acid oxidation of cyclohexyl-hydroxylamine. 3,636,099, 1-18-72, Cl. 260-537.
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 Michael, Erlenbach: *See—*
 Meyer, Gerhard; Grotjahn, Heinz; Magerlein, Helmut; Rupp, Hans-Dieter; Michael, Erlenbach; and Schopf, Albert, 3,661,502.
 Michael, Harold J., to North American Rockwell Corporation. Aluminum and alkali titanate anodic protective coating composition. 3,702,770, 11-14-72, Cl. 106-39.00r.
 Michael, Harold J., to North American Rockwell Corporation. Cer-met protective coating. 3,706,579, 12-19-72, Cl. 106-1.000.
 Michael, Jacob F.: *See—*
 Corth, Richard; and Michael, Jacob F., 3,650,850.
 Rainone, Nicholas J.; and Michael, Jacob F., 3,695,179.
 Michael, Jacob F., to Westinghouse Electric Corporation. Method of manufacturing an electric lamp filament having a coiled-coil body portion with oriented off-set legs. 3,670,377, 6-20-72, Cl. 29-25.180.
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 Michael, Richard O.: *See—*
 Woole, Cyril; and Michael, Richard O., 3,687,626.
 Michael, Richard W.; and Staten, Hi W., Jr., to Phillips Petroleum Company. Limit control. 3,697,780, 10-10-72, Cl. 307-235.000.
 Michael, Tantrimudalige Anthony Don; and Lambert, Edward Henry. Apparatus for sealing the esophagus and providing artificial respiration. 3,683,908, 8-15-72, Cl. 128-145.700.
 Michael, Wayne P.: *See—*
 Grimes, Donald W.; and Michael, Wayne P., 3,632,004.
 Michaelis, David E., to Plastics Development Corporation of America. Inexpensive camera. 3,678,839, 7-25-72, Cl. 95-60.000.
 Michaelis, Paul Charles: *See—*
 Danylichuk, Irynej; and Michaelis, Paul Charles, 3,651,496.
 Michaelis, Paul Charles, to Bell Telephone Laboratories, Incorporated. Micromanipulator for multilevel assembly. 3,675,298, 7-11-72, Cl. 29-203.00v.
 Michaelis, Peter: *See—*
 Grabel, Ulrich; and Michaelis, Peter, 3,663,772.
 Michaelis, Werner. Photographic developing apparatus. 3,675,564, 7-11-72, Cl. 95-90.000.
 Michaels, Alan S.: *See—*
 Sternberg, Shmuel; Bixler, Harris J.; and Michaels, Alan S., 3,639,306.
 Michaels, Bruce E.: *See—*
 Wilhelmson, Jack L.; and Michaels, Bruce E., 3,633,012.
 Michaels, Edwin B. Method for preparing hexachlorophene. 3,639,489, 2-1-72, Cl. 260-619.
 Michaels, Edwin B.; and Lee, John W. Process for preparing polyhalo phenols. 3,666,819, 5-30-72, Cl. 260-623.
 Michaels, Edwin B.; and Lee, John W. Preparation of polyhalo phenols. 3,702,871, 11-14-72, Cl. 260-623.00r.
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 Livingston, Richard W.; and Michaels, George L., 3,672,391.
 Michaels, Glenn O., to Atlantic Richfield Company. Regeneration of chromia alumina dehydrogenation catalyst. 3,647,909, 3-7-72, Cl. 260-683.3.
 Michaels, Leonard H., to Harper-Wyman Company. Oven control valve and system. 3,664,323, 5-23-72, Cl. 126-42.000.
 Michaels of Oregon Co.: *See—*
 McKinzie, Preston V., 3,704,537.
 Michaels, Raymond John, Jr.; and Zaugg, Harold Elmer, to Abbott Laboratories. Method of making diaryl hydroxyethyl tertiary amines. 3,663,549, 5-16-72, Cl. 260-268.
 Michaels, Ronald: *See—*
 Mayes, Nathan; and Michaels, Ronald, 3,637,814.
 Mayes, Nathan; and Michaels, Ronald, 3,660,367.
 Michaels, Sid, to Strauss, Levi, & Co. Garment spreading apparatus. 3,685,179, 8-22-72, Cl. 38-21.000.
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 Michaelson, John D.: *See—*
 Chapman, Daniel W.; Michaelson, John D.; and Stryker, Frederick J., 3,666,665.
 Michaelson, Randolph C. H., to Global Marine Inc. Process for fabricating a dead end of the spelter socket type for wire cables. 3,665,587, 5-30-72, Cl. 29-461.

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- Maguire, Mary H.; Gough, Geoffrey R.; and Michal, Frank, 3,678,162.
- Michal, John. Carrier for fishing poles and reels ready to use. 3,662,933, 5-16-72, Cl. 224-42.10e.
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- Mitsche, Roy T.; and Michalko, Edward, 3,677,973.
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- Michaluk, Bob D.: *See*—
- Hern, John F.; Surlletta, Zygmunt M.; and Michaluk, Bob D., 3,634,893.
- Michatek, Chester W.; and Harvey, Donad W., to Eastman Kodak Company. Multiple function frame member for cameras. 3,673,938, 7-4-72, Cl. 95-13.000.
- Michater, Chester W.: *See*—
- Harvey, Donald M.; and Michater, Chester W., 3,693,521.
- Michaud, Andre. Hockey stick. 3,677,542, 7-18-72, Cl. 273-67.00a.
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- Aignesberger, Alois; and Michaud, Horst, 3,661,829.
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- Rudnick, Stanley J.; Michaud, Paul L.; and Porges, Karl G., 3,646,330.
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- Michel, George P.: *See*—
- Wilburn, Garlington C.; and Michel, George P., 3,633,273.
- Michel, Hartmut: *See*—
- Schulten, Reinhard; and Michel, Hartmut, 3,679,517.
- Michel, Jorge Picazo. Modular building blocks with interfitting grooved surfaces. 3,660,928, 5-9-72, Cl. 46-25.
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- Jones, Allen J., 3,665,894.
- Jones, Allen J., 3,670,469.
- Jones, Allen J., 3,675,600.
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- Le Bris, Louis; Michelet, Daniel; and Rakoutz, Michel, 3,671,552.
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- Michels, Heinz-Gunter, to National Cash Register Company. The. Document transport device. 3,656,742, 4-18-72, Cl. 271-3.
- Michels, John: *See*—
- Ellis, David R.; Michels, John; and Gabbert, Ira, 3,675,214.
- Michelsen, Arve: *See*—
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- Michelsen, Finn C. Towed underwater apparatus. 3,703,876, 11-28-72, Cl. 114-235.00b.
- Michelson, Erwin: *See*—
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- Michelson, Gunnar P. Razor edge safety guard apparatus. 3,675,325, 7-11-72, Cl. 30-90.000.
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- Michelson, Louis, to Lion Precision Corporation. Micrometer thickness gage. 3,679,972, 7-25-72, Cl. 324-61.00r.
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- Rossi, Giorgio; Michieli, Giannantonio; and Paolucci, Paride, 3,689,522.
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- Di Pietro, Joseph; and Todd, John Heaton, 3,660,582.
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- Hodges, James Kelly, 3,689,218.
- Lamson, James E.; and Nametz, Richard C., 3,682,692.
- Trivedi, Pankajkumar Mahasukhrai, 3,666,686.
- Michigan Instruments, Inc.: *See*—
- Barkalow, Clare E.; and Folkerth, Ilden R., 3,662,751.
- Michigan State University, Board of Trustees of: *See*—
- Hansen, Clarence M., 3,698,730.
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- Michigan Technological University: *See*—
- Goksel, Mehmet Adnan, 3,669,318.
- Michigan Technological University, Board of Control of: *See*—
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- Viegelahn, Gary L., 3,683,685.
- Michigan Tube Benders, Inc.: *See*—
- McDowell, William B., 3,648,509.
- Michigan Wheel Corporation: *See*—
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- Michishita, Hisakichi: *See*—
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- Breuer, Hans; Manner, Erich; and Michl, Karl-Heinz, 3,700,759.
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- Michnoft, David N. Anti-theft chain lock for automobile compartments. 3,660,997, 5-9-72, Cl. 70-240.000.
- Michon, Gerald J.; and Burke, Hubert K., to General Electric Company. Integrated circuit bistable memory cell using charge-pumped devices. 3,662,356, 5-9-72, Cl. 340-173.
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- Currie, James H.; and Mick, Stanley H., 3,667,443.
- Mick, William F.: *See*—
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- Mickelson, Raymond N. Molded plastic belt conveyor. 3,637,091, 1-25-72, Cl. 198-184.
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- Mickus, James C.: *See*—
- Jameston, Richard A.; and Mickus, James C., 3,632,759.
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- Linton, Denton C.; Zinkl, Andrew; and Ballam, Jack, 3,679,399.
- Micro Devices Corporation: *See*—
- Plasko, Emil Robert, 3,649,942.
- Micro Magnetic Industries, Inc.: *See*—
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- Micro Science Associates: *See*—
- Uchytel, Gary; and Kolterer, Franz, 3,663,376.
- Micro Seiki Co., Ltd.: *See*—
- Cho, Masanobu, 3,679,843.
- Micro 8 Company, mesne: *See*—
- Peters, Arnis E., 3,700,321.
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- Smith, Donald O.; Harte, Kenneth J.; and Cohen, Mitchell S., 3,701,979.
- Micro-Magnetic Industries, Inc.: *See*—
- Tanaka, Frederick K.; Mueller Fred S.; and Riddle, John B., 3,680,566.
- Micro-Mega: *See*—
- Masseran, Jean, 3,703,767.
- Micro-Mega S.A.: *See*—
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- Seigneurin, Michel, 3,667,125.
- Micro-Metric Instrument Co.: *See*—
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- Micro-Miniature Parts Corporation: *See*—
- Draving, Walter J.; and Draving, Robert C., 3,694,913.
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- Smith, Thomas C., 3,695,114.
- Micro-Technology: *See*—
- Weatherman, John F.; Walker, Gary J.; and Conley, Larry R., 3,705,970.
- Microbiological Associates, Inc.: *See*—
- Buterbaugh, Noel L., 3,649,463.
- Freeman, Aaron E., 3,649,464.
- Microdisplay Systems, Inc.: *See*—
- Miles, John R., 3,658,415.
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- Microdot Inc.: *See*—
- De Lano, Don L., 3,643,211.
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- Eggleston, Gerard; and Bosworth, George, 3,678,753.
- Meyn, John E., 3,681,517.
- Munse, Robert A., 3,702,494.
- Russell, John D., 3,665,756.
- Schmidt, Francis C.; De Lano, Don L.; and Horton, Joseph W., 3,649,955.
- Speransky, Jaroslav; and Cerny, Harry E., 3,633,961.
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- Balbes, Michael S., 3,633,119.
- McAtee, Jon R., 3,703,689.
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- Findlay, John S., 3,688,058.
- Microfibers, Inc.: *See*—
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- Microfens, Inc., mesne: *See*—
- Browning, Iben, 3,702,937.
- Micromatic Hone Corporation: *See*—
- Croll, Robert D.; and Sinclair, Gerald I., 3,645,050.
- Ellis, Myron P.; and Gavasso, Richard J., 3,637,469.
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- Micromation Systems Inc.: *See*—
- Somervell, James A., 3,665,420.
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- Sanz, Manuel Claude; and Weber, Rene, 3,684,409.
- Sanz, Manuel Claude, 3,692,487.
- Sanz, Manuel Claude, 3,704,099.
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- Sanz, Manuel, 3,669,319.
- Microphor, Inc.: *See*—
- Burton, Robert Edward, 3,700,590.
- Microponent Development Ltd.: *See*—
- Smith, John Henry William, 3,691,632.
- Microsystems International Limited: *See*—
- Au, Kenneth K., 3,694,673.
- Cowpland, Michael C. J., 3,703,647.
- Hantusch, Gerald H.; Vincent, David A.; and Van Tongerloo, Eric H., 3,675,089.
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- Hartz, Norman; and Horne, Bruce K., 3,636,479.
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- Howell, Charles M.; and Anand, Yoginder, 3,649,890.
- Mueller, Martin, 3,699,480.
- Microwave Development Laboratories, Inc.: *See*—
- Barber, Wayne, 3,672,202.
- Microwave Semiconductor Corporation: *See*—
- Mc Geough, Patrick L.; Gilbert, George J.; and Henrikson, Donald F., 3,651,434.
- Microwire Corporation: *See*—
- Dibrell, James W., 3,656,701.
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- Long, Virgil L., Sr., 3,662,437.
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- Middaugh, George J., Jr.: *See*—
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- Middelhoeck, Simon; and Sasso, Giovanni, to International Business Machines Corporation. Procedure for making semiconductor devices of small dimensions. 3,669,732, 6-13-72, Cl. 117-212.000.

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- Middendorf, William H.; and Fritz, Edward J., to Wadsworth Electric Mfg. Co., Incorporated, The. Circuit breaker with improved unauthorized use prevention structure. 3,649,784, 3-14-72, Cl. 200-421.
- Middlebrook, Robert D. Adjustable speed electric power means and system. 3,697,763, 10-10-72, Cl. 290-17,000.
- Middlebrook, Terence C., to Phillips Petroleum Company. Blend of ethylene-butene copolymer with butadiene-styrene radial block copolymer. 3,678,134, 7-18-72, Cl. 260-876,006.
- Middleditch, Alan E., to Westinghouse Electric Corporation. Sampled data numerical contouring machine controller apparatus and method providable with on line capability for contour cornering deceleration and acceleration. 3,699,317, 10-17-72, Cl. 235-151.10.
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- Middleton, Edward B. Closure having geared rotatable ball valve. 3,703,250, 11-21-72, Cl. 222-507,000.
- Middleton, Edward Benjamin. Rotatable opening container closure. 3,703,249, 11-21-72, Cl. 222-597,000.
- Middleton, Forest L.: *See—*
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- Middleton, Forest L., to Lesco Inc. Movable compartment. 3,694,048, 9-26-72, Cl. 312-246,000.
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- Palfreyman, Jack; and Middleton, Henry Edward, 3,640,640.
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- Middleton, Richard E.; and Meyer, Donald. Lock mounted with blind fasteners. 3,706,212, 12-19-72, Cl. 70-369,000.
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- Middleton, Ronald David, to Imperial Chemical Industries Limited. Polyamides. 3,687,904, 8-29-72, Cl. 260-78,00r.
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- Henry, Nelson R.; and Middour, Donald R., 3,668,815.
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- Rohner, Otto, 3,651,912.
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- Macall, Thomas F., 3,665,196.
- Midland Glass Company, Inc.: *See—*
- Terner, E. M., 3,698,586.
- Midland Machine Corporation: *See—*
- Denny, Denny A., 3,637,087.
- Midland Manufacturing Company, Inc.: *See—*
- Kenney, William D., 3,692,121.
- Midland Processing Inc.: *See—*
- Govani, Hargovind L., 3,660,079.
- Midland Ross Corporation: *See—*
- Gasior, Joseph; and Waechter, Charles J., 3,632,261.
- Midland Silicones Limited: *See—*
- Bush, Richard P., 3,641,089.
- Bush, Richard Paul; and Thomas, Bryan, 3,655,711.
- Chandra, Grish; Owen, William J.; Lloyd, Norman C.; and Cooper, Bryan E., 3,699,140.
- Griffiths, Brian J.; Cooper, Herbert T.; and Hudson, Peter F., 3,661,964.
- Kendrick, Thomas Charles; and Owen, Michael James, 3,691,257.
- Scott, Henry George, 3,646,155.
- Vismas, Theodore, 3,639,498.
- Midland Sporting Goods Company, Inc., mesne: *See—*
- Melnick, Samuel H.; Landsman, Walter A.; and Stromski, Walter A., 3,702,023.
- Midland-Ross Corporation: *See—*
- Barr, Robert Alan, 3,698,541.
- Blount, Walter H., 3,686,866.
- Brown, Curtis L., 3,661,054.
- Chedaille, Jacques; and Koopmans, Gerben, 3,671,172.
- Degelleke, Gerrit; and Bush, Robert E., 3,682,031.
- Enk, Albert T., 3,693,950.
- Floehr, Walter L., 3,654,873.
- Gasior, Joseph; and Kovacs, Lloyd, 3,640,661.
- Hemsath, Klaus H., 3,671,028.
- Huffman, Herman M., 3,635,025.
- Jwuc, Karl John; and Willison, Donald, 3,637,089.
- Kish, George R.; and Volker, Edward L., 3,659,902.
- Kish, George R.; and Swanson, Kenneth B., 3,674,954.
- Kovacs, Lloyd, 3,671,141.
- Kovacs, Lloyd, 3,689,182.
- Kovacs, Lloyd, 3,690,806.
- Marchal, Paul Henri, 3,643,343.
- Metzger, William J., 3,655,066.
- Metzger, William J., 3,670,901.
- Metzger, William J., 3,693,809.
- Metzger, William J., 3,698,570.
- Pomper, Anthony W.; and Kovacs, Lloyd, 3,671,021.
- Schultz, Forrest O. E., 3,670,756.
- Smith, Russell J.; and Froman, William H., 3,643,729.
- Tollefsrud, Warren H.; and Shriver, Edward W., 3,677,423.
- Weber, Hans B.; and Brown, Joseph, 3,670,660.
- Midland-Ross Corporation, mesne: *See—*
- Aaron, Charles; Mount, Robert E.; and DeGelleke, Gerrit, 3,680,804.
- Midland-Yorkshire Tar Distillers Limited: *See—*
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- Midolo, Lawrence L., to United States of America, Air Force. Heat transfer apparatus with osmotic pumping. 3,677,337, 7-18-72, Cl. 165-105,000.
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- Watanuki, Toshio, 3,695,751.
- Midori-Kai Co., Ltd., The, mesne: *See—*
- Watanuki, Toshio, 3,687,530.
- Watanuki, Toshio, 3,698,803.
- Midulla, Guiseppa, 2% each to Rose, Howard L., Moon, Elmer, Early, Roger, 24 1/2% to Rubelsky, William C., 22 1/2% to Leacock, Ronald, 2% to Rubelsky, William P., 2% to Perez, Frank, Jr., 1% to Gibbons, Arthur S. and 2% to McDaniel, Carlos B. Motion pictur system. 3,699,046, 10-17-72, Cl. 352-68,000.
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- Unger, David, 3,694,973.
- Midwest Communications & Audio, Incorporated: *See—*
- Mereen, Donald E.; and Barrett, Jack E. J., 3,675,205.
- Midwest Research Institute: *See—*
- Meiners, Alfred; and Shea, Evan P., 3,649,493.
- Rush, Donald J.; Christie, Howard W.; and Byerley, Thomas J., 3,632,531.
- Midwest Steel Fabricators, Inc.: *See—*
- Davis, David E., 3,703,274.
- Midwestern Industries, Inc.: *See—*
- Riesbeck, Laverne J.; and Mushrush, Wilson G., 3,650,401.
- Riesbeck, Laverne J.; and Blackwell, Willis A., 3,666,096.
- Midwestern Instruments, Inc.: *See—*
- Roberts, Clyde D., 3,643,849.
- Midwestern Specialties, Limited: *See—*
- Stanley, Richard C.; and Lewis, Jesse M., 3,687,704.
- Stanley, Richard C.; Thatcher, Charles R.; and Poore, Ernest C., 3,687,706.
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- Poore, Earnest C.; and Goforth, John A., Jr., 3,690,472.
- Stanley, Richard Carl, 3,681,560.
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- Tafel, Leonard Immanuel, 3,633,503.
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- Carlson, Lee Allen; and Miecka, Richard George, 3,695,874.
- Mielback, Roger L.; and Scheuer, Nicholas G., to Josam Manufacturing Co. Compact closet carrier. 3,686,695, 8-29-72, Cl. 4-252,00r.
- Mielke, Dorothy M. Hairpiece construction. 3,651,821, 3-28-72, Cl. 132-53.

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- Merten, Rudolf; Dunwald, Willi; and Mielke, Karl-Heinz, 3,642,524.
- Mielke, Robert H., to Container Corporation of America. Composite carrying case. 3,659,774, 5-2-72, Cl. 229-52,00b.
- Mielnikowski, Eugene F., Jr.; Kratoski, Frank L.; and La Morte, Gerardo M., to Dynagraphic Systems, Inc. Mechanically actuated photocopy machine. 3,653,756, 4-4-72, Cl. 355-3.
- Mienstaedt, Robert, to Deering Milliken Research Corporation. Control circuit arrangement for controlling parameters of a process and a comparison circuit arrangement for use in conjunction with the control circuit arrangements. 3,674,993, 7-4-72, Cl. 235150,100.
- Mierley, George M., Sr.: *See—*
- Rahaim, Thomas J.; and Mierley, George M., Sr., 3,656,862.
- Rahaim, Thomas J.; and Mierley, George M., Sr., 3,689,174.
- Wootton, Horace; and Mierley, George M., Sr., 3,647,311.
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- Miessner, Horst, to Gesellschaft für Kernforschung mbH. Heavy ion accelerator. 3,683,287, 8-8-72, Cl. 328-233,000.
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- Carp, Ralph W.; and Miesterfeld, Frederick O., 3,640,588.
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- Mietens, Gerhard: *See—*
- Ahlgrim, Michael; Kandler, Joachim; Lenz, Hans-Joachim; Mietens, Gerhard; and Ott, Willy, 3,647,514.
- Kandler, Joachim; Mietens, Gerhard; and Ahlgrim, Michael, 3,653,947.
- Mieth, Hubert: *See—*
- Schorr, Manfred; Mieth, Hubert; and Raether, Wolfgang, 3,639,412.
- Miettinen, Jorma; Autio, Timo; and Stromberg, Juhani, to Miettinen, Jorma K., Prof. Method for preparing plastic impregnated wood by radiation polymerization. 3,663,261, 5-16-72, Cl. 117-59.
- Miettinen, Jorma K., Prof.: *See—*
- Miettinen, Jorma; Autio, Timo; and Stromberg, Juhani, 3,663,261.
- Mietzner, Franz: *See—*
- Gropper, Hans; Mietzner, Franz; Ludwigshafen, Kinkel; Klaus, Rodenkirchen; and Urban, Friedrich, 3,635,936.
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- Gropper, Hans; Mietzner, Franz Georg; and Urban, Friedrich, 3,642,747.
- Mieyal, David F.: *See—*
- Downing, Lucien R., Jr.; and Mieyal, David F., 3,693,303.
- Mifflin, Ralph W.: *See—*
- Hanson, Donald W.; and Mifflin, Ralph W., 3,699,570.
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- Takahashi, Akira; Arata, Akimasa; and Okawara, Yoshimi, 3,659,832.
- Mifune, Hideo; and Tani, Kenroku, to Matsushita Electric Industrial Co., Ltd. Ultrasonic wave microphone. 3,675,053, 7-4-72, Cl. 310-8,200.
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- Okoshi, Takanori; and Migitaka, Masatoshi, 3,639,857.
- Takahashi, Susumu; Nakashima, Hisao; and Migitaka, Masatoshi, 3,660,178.
- Migliaccio, Edward P.: *See—*
- Migliaccio, Luigi; and Migliaccio, Edward P., 3,678,872.
- Migliaccio, Luigi; and Migliaccio, Edward P. Emergency underwater escape vehicle. 3,678,872, 7-25-72, Cl. 114-16,700.
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- Joux, Jean-Louis Fernand; Mignot, Bernard Michel; and Billon, Michel Gaston Albert, 3,693,256.
- Migros-Genossenschafts-Bund: *See—*
- Glaser, Jules, 3,642,190.
- Miguel, Marvin E. Bale handling device. 3,690,473, 9-12-72, Cl. 214-6,00b.
- Miguel, Robert. Clothes line and clothes pin assembly. 3,656,630, 4-18-72, Cl. 211-119,11.
- Mihaila, John, to North American Rockwell Corporation. Knob assembly for vernier control device. 3,643,523, 2-22-72, Cl. 74-502.
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- Mihajlov, Vsevolod S.: *See—*
- Stein, Ira S.; Tulagin, Vsevolod; and Mihajlov, Vsevolod S., 3,634,221.
- Mihajlov, Vsevolod S.; and Carreira, Leonard M., to Xerox Corporation. Fixing process for photoelectrophoretic imaging. 3,705,797, 12-12-72, Cl. 96-1,00r.
- Mihalick, Eugene Michael: *See—*
- Strater, Kurt; Hall, William Bernard; Mihalick, Eugene Michael; and Stever, William Charles, 3,673,983.
- Mihaly, Joseph: *See—*
- Grason, Rufus L.; and Mihaly, Joseph, 3,673,328.
- Mihaly, Richard F.; and Wexler, Yale R. Power driven stirrer. 3,656,974, 4-18-72, Cl. 99-348.
- Mihara, Masao, to Kabushiki Kaisha Sango. Automatic hen's egg processing apparatus. 3,651,846, 3-28-72, Cl. 146-2.
- Mihara, Toshihiro: *See—*
- Kawamata, Tadashi; Hirota, Eiichi; Mihara, Toshihiro; and Terada, Yukio, 3,640,871.
- Mihelic, Edward L.: *See—*
- Hawthorne, John O.; and Mihelic, Edward L., 3,668,232.
- Masciantonio, Philip X.; and Mihelic, Edward L., 3,668,121.
- Mihelich, John L.: *See—*
- Korchynsky, Michael; Grozier, John David; Mihelich, John L.; Bell, John R.; and Luyckx, Leon, 3,660,452.
- Korchynsky, Michael; Grozier, John David; and Mihelich, John L., 3,666,570.
- Korchynsky, Michael; Grozier, John David; and Mihelich, John L., 3,671,336.
- Mihojevich, Steven; Zeffans, Arthur S.; Ostensen, Ralph G.; Berggren, Albin F., Jr.; and Glaser, Ronald A., to SCM Corporation. Electrostatic printer. 3,698,706, 10-17-72, Cl. 271-9,000.
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- Mikami, Nobunao: *See—*
- Ataka, Hisanori; and Mikami, Nobunao, 3,641,900.
- Mikan, Donald G.: *See—*
- Du Bois, Robert Clark; Mikan, Donald G.; and Miller, Wayne H., 3,698,356.
- Mikasa, Nobuyuki: *See—*
- Aoyama, Yoshio; Mikasa, Nobuyuki; and Nakatani, Shuuzo, 3,666,410.
- Mikawa, Akikazu: *See—*
- Sonoda, Minoru; Yamamoto, Nobuo; and Mikawa, Akikazu, 3,650,759.
- Mike-Master, Inc., mesne: *See—*
- Oskar, John Raymond, 3,665,490.
- Mikeladze, Vitaly Georgievich: *See—*
- Tupolev, Andrei Nikolaevich; Tupolev, Alexei Andreevich; Cheremukhin, Georgy Alexeevich; Bliznjuk, Valentin Ivanovich; Pukhov, Alexandr Leonidovich; Svisev, Georgy Petrovich; Bjughens, Georgy Sergeevich; and Mikeladze, Vitaly Georgievich, 3,677,502.
- Mikelson, Artur Eduardovich: *See—*
- Ioffe, Benjamin Alexandrovich; Mikelson, Artur Eduardovich; Makhlin, Aron Judovich; Lapidus, Mikhail Khaimovich; Salnikov, Jury Nikolaevich; Kazhe, Alexandr Zhanovich; and Trushelish, Ivan Avgustovich, 3,651,439.
- Ioffe, Benjamin Alexandrovich; Lapidus, Mikhail Khaimovich; Preis, Vladimir Viktorovich; Kalnin, Robert Karlovich; Sermons, Gunar Yanovich; Dorofeev, Vyacheslav Semenovich; Zheigur, Bruno Domenikovich; Shevchenko, Alexandr Alexandrovich; Denisov, Gennady Alexandrovich; Mikelson, Artur Eduardovich; and Makhlin, Aron Judovich, 3,662,302.
- Zheigur, Bruno Domenikovich; Kalnin, Robert Karlovich; Ioffe, Benjamin Alexandrovich; Shevchenko, Alexandr Alexandrovich; Dorofeev, Vyacheslav Semenovich; Mikelson, Artur Eduardovich; and Kirko, Igor Mikhailovich, 3,645,377.
- Mikhail, Wadie F.: *See—*
- Hsiao, Mu-Yue; and Mikhail, Wadie F., 3,656,107.
- Hsiao, Mu-Yue; and Mikhail, Wadie F., 3,685,014.
- Mikhailjuk, Nikolai Tarasovich: *See—*
- Scherban, Alexandr Nazarevich; Furman, Neonil Izrailevich; Sotnichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Jury Ivanovich; Sutormin, Jury Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chaschinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna, 3,678,489.
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- Mikhailov, Pavel Mikhailovich: *See—*

- Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadevich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Baklako, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
- Mikhailov, Vadim Vladimirovich: *See—*
- Ilinsky, Nikolai Fedotovich; Guterman, Kirill Davidovich; and Mikhailov, Vadim Vladimirovich, 3,703,643.
- Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itsikon, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorievich, to Slantsekhimicheskyy Kombinat "Kiviyl" U.S.S.R. Chemical soil improver. 3,705,793, 12-72, Cl. 71-24.000.
- Mikherjee, Barid B.: *See—*
- Hill, Ira D.; Mikherjee, Barid B.; and Brown, Dale G., 3,678,172.
- Miki, Jiro: *See—*
- Ishizawa, Kazutomo; Kubota, Tetsujiro; Miki, Jiro; Matsunaga, Hirotosugu; and Ohtake, Sadao, 3,653,808.
- Miki, Masakazu; Takeuchi, Yasuhiro; and Kuwahara, Hisaharu, to Kuraray Co., Ltd. Treatment of polyester materials. 3,642,518, 2-15-72, Cl. 117-72.
- Miki, Masataka: *See—*
- Itoh, Yohnosuke; Miki, Masataka; Nishiyama, Makoto; Uda, Yuhnosuke; and Terashima, Masaoki, 3,682,469.
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- Miki, Takuichi: *See—*
- Adachi, Haruhiko; and Miki, Takuichi, 3,660,542.
- Hiraga, Kentaro; Asako, Tsunehiko; and Miki, Takuichi, 3,689,564.
- Miki, Toshiro: *See—*
- Shoda, Shichiro; Ito, Nobuo; and Miki, Toshiro, 3,670,012.
- Mikida, Yukio: *See—*
- Sadakata, Kazuo; Sasaki, Minoru; Hirose, Masahiro; Nakamura, Yasuo; Mikida, Yukio; Ito, Kazuo; and Kimura, Kuninobu, 3,639,513.
- Mikite, Gyula: *See—*
- Rakoczi, Jozsef; Mikite, Gyula; Petocz, Lujza; Fischer, Janos; Grasser, Katalin; and Kosoczky, Ibolya, 3,641,039.
- Mikiya, Toshio: *See—*
- Cameron, William M.; Mikiya, Toshio; and Matsumura, Mitsuma, 3,680,643.
- Mikiya, Toshio. Portable grinding tool. 3,643,385, 2-22-72, Cl. 51-170.
- Mikk, Ray W. Ship for containerized cargo. 3,672,320, 6-27-72, Cl. 114-74.00.
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- Miklos, Louis F. Motor boat propelled pontoon boat. 3,659,546, 5-2-72, Cl. 114-235.
- Mikofalvy, Bela K.: *See—*
- Knechtges, Donald P.; and Mikofalvy, Bela K., 3,702,785.
- Mikofalvy, Bela K.; and Knechtges, Donald P., to Goodrich, B. F., Company, The. Low temperature curing vinylidene halide-unsaturated monocarboxylic acid-N-alkylol amide polymers. 3,682,871, 8-8-72, Cl. 260-80.710.
- Mikos, Aloysius J.; and Kubacki, Jerzy K., to Seng Company, The. Self orienting revolving fixture. 3,637,185, 1-25-72, Cl. 248-425.
- Mikos, Aloysius J.; and Dlugosinski, Theodore, to Seng Company, The. Sofa sleeper with seat height adjustment. 3,694,828, 10-3-72, Cl. 5-13.000.
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- Mikulec, Richard A.: *See—*
- Colton, Frank B.; Mikulec, Richard A.; and Nicholson, Robert T., 3,697,509.
- Mikulecky, Harvey W., to McGraw-Edison Company. Fusible element arrangement for fuse. 3,706,951, 12-19-72, Cl. 337-163.000.
- Mikulin, Tom T. Personnel safety guard for machinery. 3,654,821, 4-11-72, Cl. 74-612.
- Mikulka, Bohuslav E., to Evans Products Company. Method of making multilayer mat of particulate material. 3,632,371, 1-4-72, Cl. 117-19.
- Mikumo, Masatoshi: *See—*
- Tanaka, Atsushi; Kobayashi, Hiroomi; Kudo, Teizo; and Mikumo, Masatoshi, 3,665,057.
- Mikuni Kogyo Co., Ltd.: *See—*
- Ishida, Takashi, 3,651,824.
- Ishida, Takashi, 3,690,625.
- Ishida, Takashi, 3,695,245.
- Kikuchi, Kunio; and Yanaka, Yuzuru, 3,689,036.
- Mikus, Daniel J.: *See—*
- Wheaton, Theodore C., III.; and Mikus, Daniel J., 3,704,723.
- Mikus, Felix F.: *See—*
- Mathers, James E.; and Mikus, Felix F., 3,637,517.
- Mathers, James E.; Mikus, Felix F.; and Yale, Ramon L., 3,653,816.
- Mil-Pac Systems, Inc.: *See—*
- Miner, William W.; and Owens, Roland, 3,652,022.
- Milack, Joseph, Jr.: *See—*
- Igneri, Anthony V.; Milack, Joseph, Jr.; and Longo, John, 3,677,205.
- Milak, Eva, nee Krompecher: *See—*
- Harsanyi, Kalman; Takacs, Kalman; Relle, Zsuzsa, nee Somfai; Milak, Eva, nee Krompecher; Tardos, Laszlo; Korbonits, Dezso; Kiss, Pal; and Gonczy, Csaba, 3,673,188.
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- Milakovich, Joseph. Knockdown chair. 3,704,911, 12-5-72, Cl. 297-440.000.
- Milam, Paul B., Jr.; and Held, Edward C., Jr., to Phillips Petroleum Company. Polymer processing. 3,646,187, 2-29-72, Cl. 264-176.
- Milam, Ronald L.: *See—*
- Yoo, Jin Sun; and Milam, Ronald L., 3,697,617.
- Milan, William T. Electronic fuel injection system. 3,643,635, 2-22-72, Cl. 123-32.
- Milani, Davide, to Mondri Pharma Establishment. Method for the preparation of basic derivatives of 9-oxo-10-oxa-9: 10-dihydroanthracene. 3,646,030, 2-29-72, Cl. 260-247.7.
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- Milazzo, Carl J., to Hohl Machine & Conveyor Co., Inc. Conveyor. 3,638,779, 2-1-72, Cl. 198-127.
- Milazzo, Joseph S.: *See—*
- Perlinger, Hans L.; and Milazzo, Joseph S., 3,651,099.
- Milbar Corporation: *See—*
- Daniels, Charles M., Jr., 3,694,834.
- Plouffe, Emile P., 3,650,008.
- Milbaum, Michael. Random selection ball formed of concentric spheres. 3,655,197, 4-11-72, Cl. 273-138.
- Milberger, Ernest C.: *See—*
- Veatch, Franklin; Milberger, Ernest C.; and Presson, Robert D., 3,657,015.
- Milberger, Walter E., to Westinghouse Electric Corporation. Solid state double resonant pulser. 3,636,476, 1-18-72, Cl. 332-7.
- Milberger, Walter E.; and Weigle, Wayne L., to Westinghouse Electric Corporation. Fast pulldown transmission line pulser. 3,700,928, 10-24-72, Cl. 307-268.000.
- Milburn, Hudson M., to Outboard Marine Corporation. Fueling means. 3,635,264, 1-18-72, Cl. 141-291.
- Milburn, Raymond E., Jr. Bait moving fishing bobber. 3,645,030, 2-29-72, Cl. 43-26.1.
- Milburn, Raymond E., Jr. Fishing bobber mechanism. 3,672,087, 6-27-72, Cl. 43-44.880.
- Milchem Incorporated: *See—*
- Browning, William C.; Perricone, Alphonse C.; and Elting, Katherine Anne C., 3,677,961.
- Browning, William C.; and Chesser, Billy G., 3,697,498.
- Browning, William C.; and Chesser, Billy G., 3,699,042.
- Rice, Herbert L.; Cizek, Arthur; and Thamar, Marvin O., 3,665,035.
- Milchner, Erich G., to Badger Northland Inc. Silo unloader discharge spout aiming system. 3,653,520, 4-4-72, Cl. 214-17.
- Milcos, Vasilios, to Avon Products, Inc. Valve actuator. 3,684,185, 8-15-72, Cl. 239-337.000.
- Milde, Karl F., Jr. Apparatus for reproducing musical notes from an encoded record. 3,647,929, 3-7-72, Cl. 84-1.01.
- Milde, Karl F., Jr. Apparatus for simulating musical sounds employing a scannable record and flying spot scanner. 3,652,776, 3-28-72, Cl. 84-1.28.
- Milde, Karl F., Jr. Sailboat. 3,706,296, 12-19-72, Cl. 114-102.000.
- Mildenberger, Hilmar: *See—*
- Scherer, Otto; and Mildenberger, Hilmar, 3,632,757.
- Scherer, Otto; and Mildenberger, Hilmar, 3,686,200.
- Mildner, Raymond C.: *See—*

- Clock, Gerald E.; Mildner, Raymond C.; and Walters, Harold A., 3,687,748.
- Mildner, Raymond C., to Dow Chemical Company, The. Method of fabricating cables. 3,632,720, 1-4-72, Cl. 264-174.
- Mildner, Raymond C., to Dow Chemical Company, The. Electric cables and like conductors. 3,681,515, 8-1-72, Cl. 174-107.000.
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- Miler, Richard W., to Baker Perkins Inc. Method for cooling pellets severed from extruded plastic strands. 3,673,298, 6-27-72, Cl. 264-142.000.
- Miles, Bruce Robert: *See—*
- McIntosh, Ian Arthur; Bowers, Norman John; Bowers, Brian Alfred; and Miles, Bruce Robert, 3,682,253.
- Miles, Charles R., Jr.: *See—*
- Podesta, William L.; and Miles, Charles R., Jr., 3,653,699.
- Miles, Clifford Victor; and Garrett, John M., to Westinghouse Brake English Electric Semi-Conductors Limited. Semiconductor devices. 3,633,271, 1-11-72, Cl. 29-590.
- Miles, Earl F., Jr., to Indy Lighting, Inc., mesne. Adjustable light fixture. 3,660,651, 5-2-72, Cl. 240-73.
- Miles, Edwin R.; and Dreier, Donald E., to Northrop Corporation. Tire uniformity tester. 3,640,132, 2-8-72, Cl. 74-146.
- Miles Electronics Limited: *See—*
- Wilton, Raymond Charles; and Astley, Peter James, 3,643,345.
- Miles, F. G., Engineering Limited: *See—*
- Miles, Frederick G., 3,643,506.
- Miles, Frederick G., to Miles, F. G., Engineering Limited and Chetwode Marine Sales Limited. Marine speedometer. 3,643,506, 2-22-72, Cl. 73-186.
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- Miles, John Joseph: *See—*
- Baldock, Alfred James; and Miles, John Joseph, 3,657,097.
- Miles, John M., to Phillips Petroleum Company. Recovery of poly(arylene sulfide) reaction slurry constituents. 3,707,528, 12-26-72, Cl. 260-79.000.
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- Miles, John R., to Microdisplay Systems, Inc. Wide angle compact projection lens assembly. 3,704,998, 12-5-72, Cl. 350-216.000.
- Miles, John Walter: *See—*
- Farrow, Roger M.; Kimber, Anthony B.; Cole, John Barrington; Miles, John Walter; and Griffiths, Graham Ernest, 3,698,562.
- Griffiths, Graham Ernest; Geiger, Roger Keith; and Miles, John Walter, 3,643,917.
- Miles Laboratories, Inc.: *See—*
- Bauer, Robert, 3,654,179.
- Bauer, Robert, 3,654,180.
- Bloch, Rene; Bauer, Robert; and Phillips, Ben F., 3,635,679.
- Borchert, Peter Jochen; Slager, James Edward; Sommer, Ronald George; and Zienty, Mitchell Frank, 3,639,646.
- Borchert, Peter Jochen; Slager, James Edward; Sommer, Ronald George; and Zienty, Mitchell Frank, 3,653,931.
- Buckler, Robert Thomas, 3,681,336.
- Centolella, Albert Peter; and Razor, Billy Gene, 3,661,955.
- Centolella, Albert Peter; and Razor, Billy Gene, 3,667,966.
- Christian, Gary Dale, 3,655,526.
- Clack, Peter Joseph; Wiswell, James David; and Clemens, Anton Hubert, 3,697,730.
- Doner, Abraham J., 3,670,074.
- Freaker, Ronald; Gunter, Claude Ray; Haden, Billy Harper; and Mhatre, Nagesh Shamrao, 3,704,206.
- Fukumoto, Juichiro; and Yamamoto, Takehiko, 3,661,716.
- Havera, Herbert John, 3,682,920.
- Lauria, Andrew Carmine; and Owens, Jeffrey Lynn, 3,697,421.
- Linoli, Gianni; and Mannucci, Enzo Sergio, 3,684,451.
- Lorenzetti, Olfeo John, 3,670,087.
- McCormick, James Benjamin, 3,674,396.
- Melachouris, Nicholas; and Charles, Robert Lemoine, 3,634,195.
- Rogers, Robert Wayne, 3,635,681.
- Schut, Robert N.; and Nichols, Gust, 3,689,555.
- Schut, Robert Norman; and Ward, Frederick Edmund, 3,689,490.
- Segel, Edward; and Scheffel, Kenneth G., 3,669,000.
- Sherelis, Robert Thomas, 3,694,163.
- Stauffer, Dale Adrian, 3,636,077.
- Sternberg, Moshe, 3,655,513.
- Stolar, Morris Emmanuel; and Sawaya, Assad Sami, 3,651,218.
- Stolar, Morris Emmanuel, 3,663,716.
- Van Dyke, John William, Jr., 3,634,431.
- Van Dyke, John William, Jr., 3,635,986.
- Van Dyke, John William, Jr.; and Van Laecke, Margaret Jo, 3,671,530.
- Vance, Richard Vernon; Rock, Arthur Orville; and Carr, Paul Walter, 3,654,081.
- Verbeck, Bruno J., 3,672,845.
- Ward, Frederick Edmund, 3,699,106.
- Weiss, Margaret Rozman, 3,641,235.
- Miles Laboratories, Inc., mesne: *See—*
- McCormick, James Benjamin; and Johnson, Leighton Clifford, 3,667,896.
- Miles, Lavenia R.: *See—*
- Hedin, Paul A.; Miles, Lavenia R.; Mynyrd, James P.; and Thompson, Alonzo C., 3,657,414.
- Miles, Leon H., to Atlantic Richfield Company. Method for drilling and completing a well and a packer fluid therefor. 3,700,050, 10-24-72, Cl. 175-65.000.
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- Miles, Lyle G.: *See—*
- Peters, Arnis E.; and Miles, Lyle G., 3,634,005.
- Miles, Marshall, to Vapor Corporation. Apparatus for detecting motion and indicating speed. 3,678,386, 7-18-72, Cl. 324-174.000.
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- Miles, Ray P.; and Szucs, Andrew E. Span structure. 3,691,576, 9-19-72, Cl. 14-72.000.
- Miles, Timothy R.; and Knittle, Raymond C. Garment carrier. 3,707,225, 12-26-72, Cl. 206-7.00k.
- Miles, Wilbur N.: *See—*
- Benjamin, Milton L.; Walker, David D.; and Miles, Wilbur N., 3,658,351.
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- Margulis, Harry; and Miles, William B., 3,655,283.
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- Stegenga, Jerry A., 3,686,681.
- Milgo Electronic Corporation: *See—*
- Ragsdale, Robert G.; and Payne, Paul E., 3,643,023.
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- Millar, George: *See—*
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- Sisk, George William, Jr.; Miller, Arthur William; and Koleszar, Frank, 3,677,166.
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- Coulon, Edward L.; Miller, Benny Jay; and Mohr, Dale C., 3,698,274.
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- Miller, Robert C.; and Miller, Carl K., 3,648,690.
- Miller, Carol K.: *See—*
- Bissonette, Vernon L.; and Miller, Jerry B., 3,671,244.
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- Haynes, Winfield Scott, Jr.; and Miller, Carroll T., 3,639,372.
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- Johnson, Kenneth V.; and Miller, David A., 3,700,115.
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- Reinhard, Clyde J.; and Miller, Donald D., 3,656,065.
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- Habeck, Bruce W.; and Miller, Donald E., 3,703,586.
- Miller, Donald F.: *See—*
- Czwakiel, Bert J.; and Miller, Donald F., 3,667,282.
- Enright, Dennis J.; Kahabka, Richard D.; and Miller, Donald F., 3,699,501.
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- Ferree, Carman M.; and Miller, Douglas F., 3,681,749.
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- Edwards, Webster H.; Miller, Earl A.; Scully, Thomas A.; Vining, Roy H.; and Wittman, David, 3,686,023.
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- Friedman, Maurice; Miller, Edward; and Pessiki, Anthony J., 3,649,877.
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- Mehta, Dinshaw D.; and Miller, Edward J., 3,663,179.
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- Roberts, Steven L.; and Miller, Edward J., Jr., 3,668,379.
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- Grayson, Herbert G.; and Miller, Edwin F., 3,688,755.
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- Hornaday, James R., Jr.; Miller, Edwin J.; and Vigor, Charles W., 3,632,980.
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- Du Rocher, Gideon A.; and Miller, Ellsworth S., 3,701,965.
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- Tiefenthal, Harlan E.; and Miller, Eugene J., Jr., 3,637,855.
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- Johnson, Virgil E., Jr.; Scherer, John O., Jr.; Miller, Eugene R.; and Blaes, Viggo A., 3,635,253.
- Miller Fluid Power Corporation: *See—*
- Flick, Francis S.; and Pabst, Russell F., 3,688,646.
- Morgan, Richard M., 3,703,852.
- Miller, Forbes M.: *See—*
- Bredzs, Nikolajs; and Miller, Forbes M., 3,666,436.
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- Miller, Franklyn D.: *See—*
- Feldman, Julian; Lerman, Frank; and Miller, Franklyn D., 3,691,021.
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- Springston, George B., Jr.; Thomas, Samuel L.; and Miller, Fred B., 3,677,082.
- Miller, Frederic L.: *See—*
- Tribken, Everett R.; and Miller, Frederic L., 3,671,904.
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- Hale, John F.; and Miller, Frederick J., 3,662,080.
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- Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr., 3,680,493.
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- Miller, Glenn E. Boat bracket for fish nets. 3,660,925, 5-9-72, Cl. 43-55.
- Miller, Glenn O., to Shield Mfg., Inc. Protective mouthpiece. 3,682,164, 8-8-72, Cl. 128-136.000.
- Miller, Glyn; and Smart, Graham Michael, to Albright & Wilson Limited. Scale inhibiting composition and method using phosphonic acid and di-or hydroxy-carboxylic acid. 3,639,645, 2-1-72, Cl. 252-180.
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- Miller, Gordon R.: *See—*
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- Miller, Gordon R., to Dow Chemical Company. The Process for continuously producing at high speeds a foam polyurethane resin laminate. 3,686,047, 8-22-72, Cl. 156-79.000.
- Miller, Hal E.: *See—*
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- Miller, Harmon B., to Reclosable Package Corporation. Package for sliced bacon. 3,671,271, 6-20-72, Cl. 99-174.000.
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- Miller, Harold C., to Super-Cut Inc. Pavement grooving machine with hydraulic winch. 3,663,061, 5-16-72, Cl. 299-39.
- Miller, Harold E.: *See—*
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- Miller, Harold L. Safety reverse for automatic parking gates. 3,678,622, 7-25-72, Cl. 49-28.000.
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- Burkard, Herbert G.; Miller, Harold N.; and Kresge, Edward N., 3,645,704.
- Wisotsky, Max J.; and Miller, Harold N., 3,638,349.
- Miller, Harold N., to Esso Research and Engineering Company. Polymers comprising ethylene and ethylenically unsaturated dicarboxylic acids or esters thereof, and oil compositions containing said polymers. 3,694,176, 9-26-72, Cl. 44-62.000.
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- Miller, Harry, to Sperry Rand Corporation. Speed command and throttle control system for aircraft. 3,691,356, 9-12-72, Cl. 235-150.220.
- Miller, Harry E.: *See—*
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- Miller, Harry Francis, Jr. Boiler soot extractor. 3,655,171, 4-11-72, Cl. 261-64.
- Miller, Harry T. Rotary hoe. 3,640,347, 2-8-72, Cl. 172-349.
- Miller, Henry A., to Air Reduction Company, Incorporated. Sealing valve for pressure regulator. 3,682,437, 8-8-72, Cl. 251-61.200.
- Miller, Henry C., to Pennwalt Corporation. Decolorized polytetrafluoroethylene. 3,700,627, 10-24-72, Cl. 260-45.850.
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- Miller, Herbert Edward, to Epsco, Incorporated. Storage and converter system. 3,701,978, 10-31-72, Cl. 340-173.00r.
- Miller, Herman C. Concrete insert. 3,693,312, 9-26-72, Cl. 52-699.000.
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- Miller, Howard A., to Eastman Kodak Company. Xerographic development apparatus and process. 3,664,857, 5-23-72, Cl. 117-17.5.
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- Miller, Howard S.; and Shoeman, William, to Sanders Associates, Inc. Signal translator. 3,665,409, 5-23-72, Cl. 340-172.500.
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- Dreps, James R.; and Miller, Ira H., 3,653,559.
- Miller, Israel R.: *See—*
- Arad, Yael; Levy, Moshe; Miller, Israel R.; and Vofsi, David, 3,649,666.
- Miller, Ivan Clay. Automatic feed control for saw grinder. 3,691,874, 9-19-72, Cl. 76-41.000.
- Miller, Jack V.; and Froelich, Ronald W. Fluorescent lighting fixtures. 3,652,848, 3-28-72, Cl. 240-81.
- Miller, Jack V. Self-erecting tent. 3,675,667, 7-11-72, Cl. 135-1.00r.
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- Miller, James R., to Aerodyne Controls Corporation. Pivoted inertia switch self-orienting along a line of deceleration in a prescribed angular pattern. 3,654,410, 4-4-72, Cl. 200-61.45.
- Miller, James R., to Shell Oil Company. Preservative for elastomers. 3,657,133, 4-18-72, Cl. 252-76.
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- Miller, Jerry B.: *See—*
- Bissonette, Vernon L.; and Miller, Jerry B., 3,671,244.
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- Miller, John S., to Wean Industries, Inc. Orbital flaw detector with radially aligned fluid actuators with means to counteract centrifugal forces. 3,689,829, 9-5-72, Cl. 328-37.000.
- Miller, Johnny, Jr.: *See—*
- Folden, Virgil A., Jr.; and Miller, Johnny, Jr., 3,669,311.
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- Miller, Justin G.; deceased (by Miller, Rita Ann; administratrix), to Lear Siegler, Inc. Deceleration schedule for aircraft landing. 3,665,465, 5-23-72, Cl. 343-7.
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- Miller, Keith A., to Air Products and Chemicals, Inc. Oxy-fuel burner for reducing the level of operating noise. 3,680,785, 8-1-72, Cl. 239-132.300.
- Miller, Kenneth H., to United States of America, Air Force. Video bandwidth analyzer. 3,652,872, 3-28-72, Cl. 307-233.
- Miller, Kent D.: *See—*
- Tompkins, Victor N.; Miller, Kent D.; Muraschi, Thelma F.; and Fenton, John W., II, 3,658,986.
- Miller, Lalan G.; and Mills, John M., to Westinghouse Electric Corporation. Traction motor control system. 3,636,422, 1-18-72, Cl. 318-95.
- Miller, Lalan G.; and Sanders, Terry D., to Westinghouse Electric Corporation. System for blending dynamic and regenerative braking. 3,657,625, 4-18-72, Cl. 318-370.
- Miller, Larry R., to Sylvania Electric Products, Inc. Shadow mask support comprising flat, bimetallic element attaches to inwardly projecting frame flange. 3,639,798, 2-1-72, Cl. 313-85.
- Miller, Larry R., to Hughes Aircraft Company. Vector half-angle computer. 3,676,660, 7-11-72, Cl. 235-186.000.
- Miller, Lawrence F.: *See—*
- Barthold, Roy R.; Keane, William J.; and Miller, Lawrence F., 3,662,261.
- Miller, Lee A.; and Zellmer, Richard C. Advertising sign for revolving drum. 3,675,353, 7-11-72, Cl. 40-51.000.
- Miller, Leo A.: *See—*
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- Miller, Leo H.; and Colegrove, James A., to Burroughs Corporation. Lithoplate bender. 3,677,059, 7-18-72, Cl. 72-403.000.
- Miller, Leroy J., to United States of America, Air Force. Treated carbon cloth for the preparation of composite structures and method of treatment. 3,637,424, 1-25-72, Cl. 117-118.
- Miller, Leroy J.; and Bilow, Norman, to Hughes Aircraft Company. Commercially useful polyphenylene polymers and method of production thereof. 3,677,976, 7-18-72, Cl. 260-2.00h.
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- Miller, Lloyd E., Jr. Thermo-compensating valve lifter for internal combustion engines. 3,664,312, 5-23-72, Cl. 123-90.190.
- Miller, Lloyd P. Rock face brick cleaning rake. 3,662,423, 5-16-72, Cl. 15-235.3.
- Miller, Louis W.; Lipic, Leonard G.; Kestler, Louise E.; and Martz, William M., to Lipic, Joseph, Pen Co. Retractable ballpoint pen with variable enclosure. 3,652,173, 3-28-72, Cl. 401-110.
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- Henderson, Robert M.; Zechlin, Richard; and Miller, Lowell E., 3,665,169.
- Miller, Manuel S., to G-W Plastic Engineers, Inc. Injection molding machines. 3,669,592, 6-13-72, Cl. 425-155.
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- Hare, Terence G., 3,701,364.
- Miller, Marie E.: *See—*
- Hammond, Arthur W.; and Miller, Marie E., 3,664,020.
- Miller, Mark A. Panel mounting construction. 3,690,083, 9-12-72, Cl. 52-481.000.
- Miller, Martin E., to Gold Line Connector, Inc. Swimming pool alarm. 3,683,353, 8-8-72, Cl. 340-261.000.
- Miller, Martin P., to General Automotive Specialty Company, Inc. Switch having spider-shaped contact carrier. 3,676,617, 7-11-72, Cl. 200-44.000.
- Miller, Marvin; Miller, Robert P.; and DeCholonoky, Tibor, Jr. Fingerprint identification system and method. 3,694,240, 9-26-72, Cl. 117-500.
- Miller, Mary Lucy, to American Cyanamid Company. Physiologically acceptable elastomeric article. 3,663,288, 5-16-72, Cl. 117-7.000.
- Miller, Melvin M. Display devices. 3,662,807, 5-16-72, Cl. 160-135.
- Miller, Merlin S.; and Russo, Ronald D., to Koehler-Dayton, Inc. Head conversion unit. 3,674,148, 7-4-72, Cl. 210-152.000.
- Miller, Meryl E.: *See—*
- Gerlach, Richard K.; and Miller, Meryl E., 3,663,779.
- Miller, Michael B., to General Motors Corporation. Single phase inverter control circuit. 3,694,714, 9-26-72, Cl. 318-138.000.
- Miller, Michael Evans, to RCA Corporation. Phonograph pickup with self formed female receptacles. 3,699,268, 10-17-72, Cl. 179-100.41k.
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- Kepler, Theodore S.; and Miller, Michael F., 3,654,407.
- Miller, Michael J., to Gray, Owen J. Self-mounting power unit for wheel chairs. 3,688,857, 9-5-72, Cl. 180-6.500.
- Miller, Michael Robert, to Postmaster General, Her Majesty's. Digital communication systems. 3,651,408, 3-21-72, Cl. 325-58.
- Miller Mold Company: *See—*
- Miller, Frederick O., 3,642,416.
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- Miller, Morris. Metallurgical microscopes with mirror stages. 3,633,991, 1-11-72, Cl. 350-91.
- Miller, Murray Edwin, to Iroquois Promotion. Proof-of-purchase label. 3,702,511, 11-14-72, Cl. 40-306.000.
- Miller, Murray H.: *See—*
- Face, William W.; Katz, Harold W.; and Miller, Murray H., 3,668,307.
- Miller, Myrl J.: *See—*
- Bullock, Michael K.; Miller, Myrl J.; and Voit, William F., Jr., 3,679,099.
- Miller, Nancy W.: *See—*
- Miller, Edmund S.; and Miller, Nancy W., 3,682,479.
- Miller, Norman C., to North American Rockwell Corporation. Mechanical mounting for a thermoelectric couple. 3,664,880, 5-23-72, Cl. 136-205.000.
- Miller, Norman K., to Miller Brothers. Safety edge construction for a powered door. 3,693,026, 9-19-72, Cl. 307-119.000.
- Miller, O. Neal: *See—*
- Beaman, Alden Gamaliel; and Miller, O. Neal, 3,682,932.
- Miller, Orville C.: *See—*
- Sauer, Louis E.; and Miller, Orville C., 3,696,480.
- Miller, Oscar. Hair trimmer. 3,699,653, 10-24-72, Cl. 30-30.000.
- Miller, Paul E.: *See—*
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- Miller, Peter H., to Evon Industries, Inc. Fastening structure for securing support brackets to a wall. 3,638,370, 2-1-72, Cl. 52-36.
- Miller, Philip Andrew; and Trown, Patrick Willoughby, to American Cyanamid Company. 5,5ab,13,ab-Tetrahydro-5b, 13b-dihydroxy-8h, 16h-7a, 15a-epidithio-7h, 15h-bisoxepino (3',4':4,5) pyrrolo (1,2-a 1'2'-d)-pyrazine-7, using aspergillus terreus. 3,701,774, 1-31-72, Cl. 260-243.00r.
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- Miller Printing Machinery Co.: *See—*
- Lenoir, Franz, 3,653,304.
- Mowry, Harry E.; Ricardo, Louis A.; and Carricato, Guy V., 3,637,202.

- Mowry, Harry E.; Carricato, Guy V.; and Richard, Louis A., 3,663,011.
 Mowry, Harry E., 3,699,831.
 Miller, R. A., Industries, Inc.: See—
 Miller, Robert A., 3,699,579.
 Miller, Ralph; and Hoffmann, Jorg H., to Ciba-Geigy Corporation. Process for the production of metal chelates. 3,681,416, 8-1-72, Cl. 260-429.00h.
 Miller, Raoy J.; and Trabbic, Gerald W., to Comfort, Inc. Insulation applicator and method. 3,684,188, 8-15-72, Cl. 239-422.000.
 Miller, Raymond H.: See—
 Fougere, Guy L.; Rothery, John L.; and Miller, Raymond H., 3,670,243.
 Miller, Raymond R.: See—
 Williams, Ray J.; and Miller, Raymond R., 3,703,210.
 Miller, Raymond S. Clean combustion engine system. 3,680,305, 8-1-72, Cl. 60-13.000.
 Miller, Richard, to Maid-Mar Industries, Inc. Brassiere and supporting frames thereof. 3,702,614, 11-14-72, Cl. 128-476.000.
 Miller, Richard A.: See—
 Von Ende, Robert J., 3,642,122.
 Miller, Richard A., to Minnesota Mining and Manufacturing Company. Non-reversal imaging process and recording elements produced thereby. 3,656,952, 4-18-72, Cl. 96-48.
 Miller, Richard C.: See—
 Roberts, Melvin L.; Johnson, Carl E.; and Miller, Richard C., 3,676,356.
 Miller, Richard C., to Libbey-Owens-Ford Company. Glass sheet press bending mold. 3,634,059, 1-11-72, Cl. 65-273.
 Miller, Richard C., to Nalco Chemical Company. NTA solid support for B₂S removal. 3,672,125, 6-27-72, Cl. 55-73.000.
 Miller, Richard C., Sr. Head light control system for vehicles. 3,706,006, 12-12-72, Cl. 315-83.000.
 Miller, Richard D.: See—
 Hinman, Ronald C.; Miller, Richard D.; and Pistel, Conrad, 3,631,964.
 Miller, Richard E.: See—
 Harris, Everett K.; Ericson, John P.; and Miller, Richard E., 3,643,323.
 Miller, Richard G.; and Cavitt, Roy L., to PPG Industries, Inc. Electroless process for forming thin metal films. 3,671,291, 6-20-72, Cl. 117-54.000.
 Miller, Richard G., to PPG Industries, Inc. Electroless process for forming thin metal films. 3,672,939, 6-27-72, Cl. 117-54.000.
 Miller, Richard G., to PPG Industries, Inc. Solution for depositing transparent metal films. 3,674,517, 7-4-72, Cl. 106-1.000.
 Miller, Richard H.: See—
 Engel, Elton D.; and Miller, Richard H., 3,655,929.
 Miller, Richard H. Chair construction. 3,674,311, 7-4-72, Cl. 297-440.000.
 Miller, Richard H., to Trimil Corporation. Electro-mechanical reader for interpreting the neurological quotient of a subject. 3,680,545, 8-1-72, Cl. 128-2.00n.
 Miller, Richard H., to General Electric Company. Disconnecting switch for force-cooled isolated phase bus. 3,701,866, 10-31-72, Cl. 200-144.00b.
 Miller, Richard K. Rotary tilting table. 3,657,963, 4-25-72, Cl. 90-58.00c.
 Miller, Rita Ann: See—
 Miller, Justin G., 3,665,465.
 Miller, Justin G., 3,698,669.
 Miller, Robert: See—
 Farber, Milton; Miller, Robert; and Brown, Charles N., 3,652,198.
 Miller, Robert; Clark, Robert J.; and Cesare, Frank C., to Uniroyal, Inc. Highly resilient polypropylene yarn. 3,686,848, 8-29-72, Cl. 57-140.00r.
 Miller, Robert; Witt, Jerry L.; and Tidmore, Mabry L., to Uniroyal, Inc. Adhesion of rayon textile to rubber with aqueous dispersion of blocked isocyanate or isocyanate dimer, rubber late and resorcinol-formaldehyde resin. 3,707,178, 12-26-72, Cl. 152-358.00.
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 Miller, Robert C.: See—
 Grasselli, Robert K.; and Miller, Robert C., 3,686,295.
 Mallick, George T., Jr.; Carr, Walter J., Jr.; and Miller, Robert C., 3,686,564.
 Miller, Robert C.; and Miller, Carl K., to Borg-Warner Corporation. Hydrotherapy tank liner and method of giving hydrotherapy treatments. 3,648,690, 3-14-72, Cl. 128-66.
 Miller, Robert C.; and Nevins, Glenn R., to Honeywell Inc. Transporting system. 3,666,076, 5-30-72, Cl. 198-1.000.
 Miller, Robert C.; Carr, Walter J., Jr.; and Mallick, George T., Jr., to Westinghouse Electric Corporation. Weapon detector utilizing the pulsed field technique to detect weapons on the basis of thickness. 3,707,672, 12-26-72, Cl. 324-41.000.
 Miller, Robert D. Method of separating water from a solution. 3,693,368, 9-26-72, Cl. 62-58.000.
 Miller, Robert E.: See—
 Buchholz, Donald E.; Miller, Robert E.; Pickering, Richard W.; and White, Douglas L., 3,634,887.
 Churchill, Donald; Cartmell, James V.; and Miller, Robert E., 3,697,297.
 Schleicher, Lowell; Miller, Robert E.; and Porter, Erland C., Jr., 3,697,371.
 Miller, Robert E.; and Brockett, Bruce W., to National Cash Register Company, The. Mark-forming record material. 3,663,256, 5-16-72, Cl. 117-36.200.
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 Miller, Robert E., to Monsanto Company. Attachment of enzymes to siliceous materials. 3,669,841, 6-13-72, Cl. 195-63.
 Miller, Robert E.; and Phillips, Paul S., Jr., to National Cash Register Company, The. Pressure-sensitive record material. 3,672,935, 6-27-72, Cl. 117-36.800.
 Miller, Robert E., to Monsanto Company. Protein cross-linked with phosphonitrilic halide. 3,674,509, 7-4-72, Cl. 99-22.00n.
 Miller, Robert E., to Monsanto Company. Protein cross-linked with polymerized unsaturated carboxylic acid. 3,685,998, 8-22-72, Cl. 99-2.00r.
 Miller, Robert E., to Monsanto Company. Protein-triazine ruminant feed material. 3,697,284, 10-10-72, Cl. 99-2.00r.
 Miller, Robert J.: See—
 Lowry, Alan B.; Mathus, Gregory; Morello, Herbert; and Miller, Robert J., 3,697,014.
 Morello, Herbert; and Miller, Robert J., 3,635,424.
 Miller, Robert J. Hinge pin retainer clip. 3,661,172, 5-9-72, Cl. 137-434.
 Miller, Robert L., to Honeywell Inc. Voltage ratio circuit. 3,686,513, 8-22-72, Cl. 307-229.000.
 Miller, Robert L.; and Higgins, David H., to Honeywell Inc. Automatic battery charger. 3,699,422, 10-17-72, Cl. 320-32.000.
 Miller, Robert N.: See—
 Mauch, Harold A.; and Miller, Robert N., 3,685,021.
 Miller, Robert N., to International Computer Products, Inc. Dual motor control. 3,704,401, 11-28-72, Cl. 318-7.000.
 Miller, Robert P.: See—
 Miller, Marvin; Miller, Robert P.; and DeCholonoky, Tibor, Jr., 3,694,240.
 Miller, Robert W.: See—
 Johnston, Ralph W.; Stephens, Donald S.; Miller, Robert W.; Hunt, Clarence W.; and Kleic, Frank J., 3,652,968.
 Miller, Rodney D.; and Nielsen, John K., to FMC Corporation. De-vining melons. 3,678,677, 7-25-72, Cl. 56-327.000.
 Miller, Roger: See—
 Finestone, Arnold B.; Miller, Roger; and Niechwiadowicz, Michael, 3,635,852.
 Miller, Roland E.; and Olson, Edgar C., to Kraftco Corporation. Speed control for packaging apparatus. 3,650,089, 3-21-72, Cl. 53-180.
 Miller, Roman S.: See—
 Garst, Orville L.; and Miller, Roman S., 3,680,165.
 Miller, Ronald D., to Allis-Chalmers Manufacturing Company. Quick detachable brace rods for combine. 3,659,405, 5-2-72, Cl. 56-15.600.
 Miller, Ronald Earl. Vehicle suspension. 3,687,477, 8-29-72, Cl. 280-104.50a.
 Miller, Ronald R.: See—
 Hahn, Frederick C.; and Miller, Ronald R., 3,685,177.
 Miller, Roy L.: See—
 Roberts, James E.; Miller, Roy L.; Welch, Jay V.; and Barrow, Ralph E., 3,651,934.
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 Miller, Sandra: See—
 Keur, Robert I.; Miller, Sandra; and Dahl, Henry A., 3,683,396.

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 Miller, Daniel D.; Miller, Donald D.; and Wrenn, James M., 3,672,076.
 Miller, Silas M.: See—
 Martin, Otis M.; Kough, John K.; Miller, Silas M.; and Kough, Blair B., 3,664,081.
 Miller, Silas N.: See—
 Kough, John K.; Martin, Otis M.; and Miller, Silas N., 3,696,570.
 Miller, Stanley J.: See—
 Krupp, Robert F.; and Miller, Stanley J., 3,679,091.
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 Miller, Stanley J.; and Davidson, James P., to National Can Corporation. Vented curl for aerosol dome. 3,679,090, 7-25-72, Cl. 220-67.
 Miller, Stephen H.: See—
 Bradford, James C.; Miller, Stephen H.; and Robertson, Jeffrey C., 3,700,188.
 Miller, Stephen H., to Eastman Kodak Company. Cutting and splicing apparatus. 3,670,616, 6-20-72, Cl. 83-397.000.
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 Stapley, Edward O.; Mata, Justo M.; Wolf, Frank J.; and Miller, Thomas W., 3,692,633.
 Miller, Thomas W., to Merck & Co., Inc. Antibiotic purification process. 3,641,063, 2-8-72, Cl. 260-348.
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 Weppner, Benjamin H.; Lefebvre, Leo P.; and Miller, Victor R., 3,690,313.
 Miller, Victor W.: See—
 Martyny, William C.; Miller, Victor W.; and Olwert, Ronald J., 3,706,895.
 Miller, Virgil A., to Atlantic Richfield Company. Lubricating composition and method for treating metal-mold interface in continuous casting operation. 3,640,860, 2-8-72, Cl. 252-56.
 Miller, Vivian June. Tie and dressing cabinet. 3,661,435, 5-9-72, Cl. 312-321.
 Miller, Walter L.: See—
 Bakker, Donavon L.; and Miller, Walter L., 3,695,415.
 Pruitt, Charles N.; Segars, Douglas L.; and Miller, Walter L., 3,647,336.
 Miller, Warner G. S. Automatic control system for forming fluted cutting tools. 3,699,411, 10-17-72, Cl. 318-39.000.
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 Miller, Warren J., to Eastman Kodak Company. Photographic element and process. 3,690,918, 9-12-72, Cl. 117-34.000.
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 Du Bois, Robert Clark; Mikan, Donald G.; and Miller, Wayne H., 3,698,356.
 Miller, Wendell E.: See—
 McMillen, Kenneth G.; and Miller, Wendell E., 3,635,021.
 McMillen, Kenneth G.; and Miller, Wendell E., 3,693,506.
 Miller, Wendell S. Self-clocking multilevel data coding system. 3,634,855, 1-11-72, Cl. 340-347.
 Miller, Wendell S. Incremental recorder with common control of drive and recorder. 3,641,584, 2-8-72, Cl. 346-74.
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 Miller, Wesley W.; Litschi, Gerold; and Bixler, Warren A., to Grace, W. R., & Co., mesne. Method and automated apparatus for photocopying. 3,635,711, 1-18-72, Cl. 96-35.1.
 Miller, Wilbur D. Auxiliary car seat. 3,632,165, 1-4-72, Cl. 297-254.
 Miller, Willard Wallace: See—
 White, Arnold George; Smith, Thomas Edward; Work, Lyall Campbell; and Miller, Willard Wallace, 3,664,929.
 Miller, William A., to Allied Chemical Corporation. Polytetrafluoroethylene. 3,640,984, 2-8-72, Cl. 260-92.1.
 Miller, William E.; Knighton, James B.; and Bernstein, George J., to United States of America, Atomic Energy Commission. Mixer-settler apparatus. 3,663,178, 5-16-72, Cl. 23-267.00r.
 Miller, William H. Hydraulic unloader. 3,650,421, 3-21-72, Cl. 214-77.
 Miller, William J.: See—
 Wolf, Frank J.; Miller, William J.; and Chaiet, Louis, 3,683,073.
 Miller, William J.; Wolf, Frank J.; and Chaiet, Louis. Methobotromycin and process for treating poultry infections. 3,683,072, 8-8-72, Cl. 424-117.000.
 Miller, William K., to General Motors Corporation. Resistance welding electrode. 3,689,731, 9-5-72, Cl. 219-119.000.
 Miller, William L., to Litton Business Systems, Inc. Carbon ribbon assembly. 3,631,958, 1-4-72, Cl. 197-151.
 Miller, William R.: See—
 Smith, Carl M., Jr.; and Miller, William R., 3,646,309.
 Millerbernd, Paul A. High level light pole including means for lowering lights for servicing. 3,670,159, 6-13-72, Cl. 240-65.000.
 Milles, Aloys: See—
 Holler, Hans; Breidenbach, Josef; and Milles, Aloys, 3,703,590.
 Millet, David: See—
 Schrecongost, Ray B.; and Millet, David, 3,636,231.
 Millett, Ray C., to Marina Industries, Inc. Precision disk grinder. 3,704,555, 12-5-72, Cl. 51-132.000.
 Milleville, Bertram J.: See—
 Bake, Earl A.; Pool, Eldert B.; Hankosky, Andrew; Milleville, Bertram J.; and Fowler, John Hyde, 3,685,536.
 Millie, Orrin: See—
 Post, Herman; Prigozy, Stephen; and Millie, Orrin, 3,680,774.
 Millier, Jean-Pierre: See—
 Lucas, Robert; and Millier, Jean-Pierre, 3,645,459.
 Milligan, Carl William: See—
 Bush, John L.; and Milligan, Carl William, 3,649,578.
 Milligan, Charles Leonard: See—
 Hoy, Kenneth Look; and Milligan, Charles Leonard, 3,668,183.
 Milligan, Gene E., to National Cash Register Company, The. Self-clocking five bit record-playback system. 3,641,525, 2-8-72, Cl. 340-174.1.
 Milligan, James W.: See—
 Hess, Hugo J. A.; Milligan, James W.; and Friend, Harvey L., 3,638,116.
 Milligan, James W., to Duncan Electric Company, Inc. Temperature-compensated magnetic bearings. 3,657,676, 4-18-72, Cl. 335-217.
 Milligan, John G., to Jefferson Chemical Company, Inc. Emulsifying agents. 3,639,262, 2-1-72, Cl. 252-355.
 Milligan, Lec J.; and Mayer, Douglas M., to Certex, Inc. Apparatus for the automatic threading of a flexible medium. 3,643,890, 2-22-72, Cl. 242-182.
 Milligan, Lee J., to Peripheral Systems Corporation. Control apparatus. 3,671,807, 6-20-72, Cl. 317-11.00a.
 Milligan, Terry W.: See—
 Buckler, Sheldon A.; Milligan, Terry W.; and Rogers, Howard G., 3,679,409.
 Millin, David J., to Tenco Brooke Bond Limited. Improvements relating to fermentation of tea. 3,649,297, 3-14-72, Cl. 99-77.
 Millington, Alan Dennis: See—
 Bentvelzen, Joseph Maria; and Millington, Alan Dennis, 3,700,536.
 Millington, Raymond J.; and Rezek, John R., to Motorola, Inc. Integrated circuit decoder responsive to two sequential tones, with group call provisions. 3,686,635, 8-22-72, Cl. 340-171.00r.
 Million, Adolf; Million, Carol; and Cabelka, Isosif. Process and device for the static determination of the minimum delayed cracking stress of welded steels. 3,645,130, 2-29-72, Cl. 73-95.
 Million, Carol: See—
 Million, Adolf; Million, Carol; and Cabelka, Isosif, 3,645,130.
 Millipore Corporation: See—
 Brefka, Paul E.; and Latham, Peter A., 3,666,140.
 Danti, Bernard, 3,674,147.
 Danti, Bernard R.; Brefka, Paul E.; and Merrill, Wayne S., 3,652,169.
 Danti, Bernard R.; and Brefka, Paul E., 3,699,291.
 Post, Arthur H., Jr.; Polinsky, Ronald J.; and Dwyer, James L., 3,674,678.
 Milliron, Albert R.: See—
 Van Dyke, John; and Milliron, Albert R., 3,633,416.
 Milliron, Thomas E.: See—
 Ellings, Frank L.; and Milliron, Thomas E., 3,666,054.
 Millis, Hugh L., Jr.; and Hoskinson, Eugene A., to Intertek Controls, Inc. Electronic linear measuring device. 3,676,652, 7-11-72, Cl. 235-151.320.
 Millis, Walter T., to General Electric Company. Cathode construction. 3,662,211, 5-9-72, Cl. 313-340.
 Millman, Irving: See—
 Blumberg, Baruch S.; and Millman, Irving, 3,636,191.
 Millman, Sandy K. Non-slip golf glove. 3,649,967, 3-21-72, Cl. 2-161.
 Millman, Sidney E., to TRW Inc. Power converter with self-synchronization and bias. 3,657,572, 4-18-72, Cl. 307-297.
 Millman, Sidney E., to TRW Inc. Zero recovery time two transistor multivibrator. 3,671,774, 6-20-72, Cl. 307-273.000.
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 Millman, Victor; and Gray, Wallie P., to Rohr Corporation. Sound suppression system. 3,647,021, 3-7-72, Cl. 181-33.
 Millman, Victor, to Rohr Corporation. Sound suppressing apparatus. 3,655,008, 4-11-72, Cl. 181-33.

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- Millman, William V., to Bendix Corporation, The. Sonic nebulizer. 3,690,317, 9-12-72, Cl. 128-194.000.
- Millmaster Onyx Corporation: *See—*
- Adams, Phillip; and Petrocci, Alfonso N., 3,705,027.
- Beinfest, Sidney; Jacura, Zenon; and Adams, Phillip, 3,669,633.
- Jacura, Zenon; Adams, Phillip; and Juliano, Benedict R., 3,666,802.
- Merianos, John J.; Shay, Edward Griffin; Adams, Phillip; and Petrocci, Alfonso N., 3,663,620.
- Sexsmith, Frederick H., 3,660,009.
- Shay, Edward Griffin; and Tavss, Edward A., 3,636,115.
- Shay, Edward Griffin; and Tavss, Edward A., 3,678,173.
- Wakeman, Reginald L.; and Sahy, Edward Griffin, 3,632,764.
- Wakeman, Reginald L.; and Merianos, John J., 3,652,771.
- Millnamow, William J. Bow sight. 3,648,376, 3-14-72, Cl. 33-46.
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- Mills, Albert E. Apparatus for detecting a leak in a fluid pressure system. 3,653,264, 4-4-72, Cl. 73-398.
- Mills, Albert T.: *See—*
- Starr, Leon; Runyon, David Jon; and Mills, Albert T., 3,635,882.
- Mills, Alfred Leonard; and Vivers, Robert William Jackson, to United Kingdom Atomic Energy Authority. Processing of irradiated nuclear fuels. 3,672,848, 6-27-72, Cl. 23-342.000.
- Mills, Brian Edward: *See—*
- Edstrom, John Olof; Innerman, Sven Eric; Berg, Bengt Henrik; and Mills, Brian Edward, 3,690,850.
- Mills, Carroll B.; and Brasier, Robert I., to United States of America, Atomic Energy Commission. Compact and safe nuclear reactor. 3,687,804, 8-29-72, Cl. 176-50.000.
- Mills Company, The: *See—*
- Pollock, Gordon J., 3,694,975.
- Mills, Donald S.: *See—*
- Bly, Kenneth B.; and Mills, Donald S., 3,635,791.
- Mills, Druid L. Timber mill. 3,702,626, 11-14-72, Cl. 143-32.00p.
- Mills, Edwin R.; and Elmore, Ernest L., to Fieldcrest Mills, Inc. Electrically heated bedcover with thermostatless overheat protection circuit and separate comfort. 3,683,151, 8-8-72, Cl. 219-212.000.
- Mills, Evan D. Container cooling device. 3,696,633, 10-10-72, Cl. 62-294.000.
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- Mills, Harry; and Woods, Leslie, to Pilkington Brothers Limited. Method and apparatus for inspecting a glass surface. 3,666,360, 5-30-72, Cl. 356-72.
- Mills, Iain C., to Dunlop Holdings Limited. Wheels. 3,669,174, 6-13-72, Cl. 152-375.000.
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- Mills, Ivor W.; and Dimeler, Glenn R., to Sun Oil Company. Making a cable oil by acid extraction and hydrofining. 3,681,233, 8-1-72, Cl. 208-91.000.
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- Mills, Jack, to Lilly, Eli, and Company. α -Substituted hydrocinnamic acids and derivatives thereof. 3,707,549, 12-26-72, Cl. 260-470.000.
- Mills, James Arthur: *See—*
- Lawrence, William Anthony Perry; and Mills, James Arthur, 3,707,166.
- Mills, James B., to Aluminum Company of America. Hand crimper. 3,659,397, 5-2-72, Cl. 53-329.
- Mills, Jeffrey P., to Automatic Electric Laboratories, Inc. Checking for undesirable multiplicity of matrix paths. 3,646,368, 2-29-72, Cl. 307-269.
- Mills, John M.: *See—*
- Miller, Lalan G.; and Mills, John M., 3,636,422.
- Mills, John R.: *See—*
- Borden, Clarence W.; and Mills, John R., 3,635,504.
- Mills, John S.: *See—*
- Edwards, John A.; Fried, John H.; and Mills, John S., 3,705,182.
- Mills, Justin W., Jr.: *See—*
- Strople, Gordon N.; and Mills, Justin W., Jr., 3,672,129.
- Mills, K. Louis, Jr.: *See—*
- Vanderveen, John W.; Cheng, Paul J.; Mills, K. Louis, Jr.; Venable, Charles R., Jr.; and Johnson, Paul H., 3,676,070.
- Mills, Karl D.: *See—*
- Anderson, Robert K.; and Mills, Karl D., 3,648,001.
- Mills, Kenneth R.: *See—*
- Drake, William O.; and Mills, Kenneth R., 3,636,031.
- Mills, Kenneth R., to Phillips Petroleum Company. Stabilized alpha-monoolefins. 3,642,690, 2-15-72, Cl. 260-45.75.
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- Mills, King L., to Phillips Petroleum Company. Electrodes for electrolytic conversion. 3,663,380, 5-16-72, Cl. 204-59.
- Mills, King L., to Phillips Petroleum Company. Composite carbon electrode structure having improved electrical conductivity. 3,676,324, 7-11-72, Cl. 204-284.000.
- Mills, Leonard: *See—*
- Vogt, John; Schmidt, Paul; and Mills, Leonard, 3,650,519.
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- Mills, Michael Colin, to Mattel, Inc. Foldable toys. 3,675,363, 7-11-72, Cl. 46-15.000.
- Mills, Norman T.: *See—*
- Halley, James W.; Grimes, Donald E.; Mills, Norman T.; and Yalamanchili, Krishna Rao, 3,649,249.
- Halley, James W.; Grimes, Donald E.; Mills, Norman T.; and Yalamanchili, Krishna Rao, 3,704,744.
- Mills Products, Inc.: *See—*
- Katona, Joseph W.; and Crouse, David W., 3,665,915.
- Larkin, Robert B., 3,643,647.
- Mills, Vernon I., 3,664,326.
- Mills, Richard G.: *See—*
- Brackenbrough, Dennis D.; Godfrey, Harold E., Jr.; and Mills, Richard G., 3,649,835.
- Chin, Jack; Luby, Charles S.; and Mills, Richard G., 3,649,452.
- Mills, Richard M., to Puett Electrical Starting Gate, Inc. Retractable automatic breaking door for starting gates. 3,703,883, 11-28-72, Cl. 119-15.500.
- Mills, Robert I.: *See—*
- Armstrong, Dale F.; McInteer, Bertus B.; Mills, Robert I.; Poiter, Robert M.; Robinson, Eugene S.; Rowley, John C.; and Smith, Morton C., 3,693,731.
- Mills, Roy: *See—*
- Ahrens, Robert H.; Bartlett, John A.; Roberts, James S.; Schipper, Pieter W.; and Mills, Roy, 3,649,108.
- Mills, Russell, Inc.: *See—*
- Anthony, Myron L., 3,646,542.
- Mills, Stephen H.: *See—*
- Chai, Hi D.; Mills, Stephen H.; Pawletko, Joseph P.; Peters, Francis E.; and Young, Carl T., 3,705,370.
- Mills, Thomas C.: *See—*
- McKinsey, Kevin P.; and Mills, Thomas C., 3,692,376.
- Mills, Thomas C.; and Gresens, Stanley T., to Robertson Photo-Mechanix, Inc. Photographic development sink and tray construction. 3,641,912, 2-15-72, Cl. 95-95.
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- Mills, Vernon I., to Mills Products, Inc. Safety screen for oven windows. 3,664,326, 5-23-72, Cl. 126-200.
- Mills, Wallace R.: *See—*
- Shmueli, Kalman; Scott, Robert T.; and Mills, Wallace R., 3,640,318.
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- Mills, William R., Jr.: *See—*
- Givens, Wyatt W.; Caldwell, Richard L.; and Mills, William R., Jr., 3,686,503.
- Millsap, Norman E., to Parker-Hannifin Corporation. Composite rod wiper. 3,642,290, 2-15-72, Cl. 277-24.
- Millsoop, William O.; Ellis, Belvin B.; and Burkhardt, Charles E., to Westinghouse Electric Corporation. Magnetic cores and methods of constructing same. 3,670,279, 6-13-72, Cl. 336-217.000.
- Millward, Thomas Hughes: *See—*
- Smith, Henry Thomas; and Millward, Thomas Hughes, 3,656,318.
- Smith, Henry Thomas; and Millward, Thomas Hughes, 3,688,521.

- Smith, Henry Thomas; and Millward, Thomas Hughes, 3,696,638.
- Milne, John D. Bushing and bushing assembly. 3,643,290, 2-22-72, Cl. 16-2.
- Milne, John S. Apparatus for capping containers. 3,657,862, 4-25-72, Cl. 53-297.000.
- Milner, Edwin Earl, Jr., to Baker Equipment Engineering Co., Inc. Aerial personnel platform with proximity sensing system. 3,670,849, 6-20-72, Cl. 182-19.000.
- Milner, Fridrikh Grigorievich: *See—*
- Chegolin, Petr Mikhailovich; Rimsky, Gennady Vasilievich; Leonovich, Eduard Nikolaevich; Milner, Fridrikh Grigorievich; Samuilov, Nikolai Nikolaevich; and Anishkevich, Nikolai Nikolaevich, 3,651,309.
- Milner, Geoffrey, to Power-Gas Corporation Limited, The. Process for de-copperising lead. 3,666,441, 5-30-72, Cl. 75-78.
- Milner, John D.: *See—*
- Lundin, Andrew P.; and Milner, John D., 3,697,005.
- Milner, Peter James; and Hodkin, Richard Keith, to Rootes Motors Limited. Vehicle wheel braking systems. 3,640,587, 2-8-72, Cl. 303-21.
- Milo, August. Warning system for preventing overflow in underground tanks having a gage box. 3,633,193, 1-4-72, Cl. 340-244.
- Milo, August. Bracket for centering capped pipe in manholes. 3,670,384, 6-20-72, Cl. 29-200.00j.
- Milov, Vladimir Gennadiyevich: *See—*
- Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadiyevich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smimov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smimov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
- Milov, Vladimir Nikolaevich: *See—*
- Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Giotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.
- Milovae, Sidney: *See—*
- Thomas, Michael D.; and Milovae, Sidney, 3,671,114.
- Milovich, Walter E., to Ace Tool Engineering Co., Inc. Fishing tackle. 3,686,787, 8-29-72, Cl. 43-44.900.
- Milprint, Inc.: *See—*
- Furniss, William R.; and Verga, Dominick, 3,642,102.
- Krzyzanowski, Robert A., 3,672,557.
- Weber, Raymond B., 3,704,533.
- Milross Controls, Inc.: *See—*
- Tems, Adam, 3,652,974.
- Milsimer, Frantisek; and Zampach, Jiri, to World Patent Development Corporation. Process for manufacture of hard mineral fibre slabs with coating. 3,652,352, 3-28-72, Cl. 156-62.4.
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- Milton Roy Company: *See—*
- Lindsay, Edward R., Jr., 3,644,950.
- Milton, Thomas J.: *See—*
- Farrell, Robert C.; and Milton, Thomas J., 3,646,285.
- Milton, Thomas J.; and Connell, Lehman J., to General Motors Corporation. Transmission controls. 3,646,828, 3-7-72, Cl. 74-484.
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- Milwaukee Faucets, Inc.: *See—*
- Schmitt, William C., 3,645,289.
- Schmitt, William C., 3,669,141.
- Schmitt, William C., 3,698,418.
- Milwaukee Gear Company: *See—*
- Barr, William A., 3,636,791.
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- Weyker, Robert George; and Mina, George Louis, 3,650,819.
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- Minami, Hiroshi: *See—*
- Kurokawa, Noriyuki; and Minami, Hiroshi, 3,692,990.
- Minami, Keiichi: *See—*
- Susami, Kozo; Minami, Keiichi; Tabata, Masaaki; Kojima, Teiryu; and Yunoki, Zyuji, 3,660,973.
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- Asahara, Tomohiko; Yoda, Naoya; and Minami, Nuneyoshi, 3,669,930.
- Minami, Satoyuki: *See—*
- Okada, Hiroshi; Osakada, Atsushi; Minami, Satoyuki; Aoki, Toshikazu; Hisamori, Tetsuo; Koyanagi, Hironobu; and Otsuka, Hiromi, 3,692,602.
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- Akiyama, Shinichi; Minami, Shoichiro; and Toyoda, Akinobu, 3,646,127.
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- Ito, Yoshio; Smiyama, Shinichi; Toyoda, Akinobu; and Minami, Shoichiro, 3,686,294.
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- Matsui, Isao; Minamikawa, Yoshihisa; Katagiri, Shinjiro; and Nakahara, Teruo, 3,691,377.
- Minarick, Joseph W.: *See—*
- Palma, Michael A.; and Minarick, Joseph W., 3,701,401.
- Minarik Electric Company: *See—*
- Mason, Raymond J., 3,634,874.
- Minarik, William J.; and Mason, Raymond J., 3,678,360.
- Minarik, Ronald W.: *See—*
- Bozanic, Donald A.; Minarik, Ronald W.; and Mergerian, Dickron, 3,663,952.
- Bozanic, Donald A.; Mergerian, Dickron; and Minarik, Ronald W., 3,671,855.
- Fisher, Peter D.; Mergerian, Dickron; and Minarik, Ronald W., 3,691,383.
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- Jachimowicz, George A.; Minatelli, Mark A.; and Preston, Harold M., 3,666,695.
- Minato, Atsushi: *See—*
- Shonohara, Takeo; Miyamoto, Yoshikazu; Minato, Atsushi; and Maeda, Chikahiko, 3,662,345.
- Minato, Hitoshi: *See—*
- Hayakawa, Shohei; Matsushima, Takashi; Minato, Hitoshi; and Hirose, Katsumi, 3,660,588.
- Minato, Shoichi: *See—*
- Isogawa, Masataka; Minato, Shoichi; and Ando, Zenjiro, 3,678,132.
- Minbiolo, Louis J., Jr.: *See—*
- Neumann, John W.; Clark, Chester G.; and Minbiolo, Louis J., Jr., 3,704,685.
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- Minchin, Kenneth R. Thether ball. 3,693,972, 9-26-72, Cl. 273-58.00c.
- Minchow, Edward L.: *See—*
- Meyer, Heinrich F.; and Minchow, Edward L., 3,645,156.
- Minck, Klaus: *See—*
- Weber, Karl-Heinz; Bauer, Adolf; Merz, Herbert; and Minck, Klaus, 3,678,033.
- Minckler, Leon Sherwood, Jr., to Esso Research and Engineering Company. Process of reacting carboxy-terminated polyalkylene polymer with an imine and resultant product. 3,678,013, 7-18-72, Cl. 260-77.50r.
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- Minden, Henry T.; and Donahue, John A., to Sperry Rand Corporation. Liquid epitaxy method and apparatus. 3,697,330, 10-10-72, Cl. 148-1.500.
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- Mayerle, Evan A.; and Minderhout, James R., 3,696,009.
- Mindler, Fredric A.; and Pickering, Charles E., to Eastman Kodak Company. Coil spring slip clutch. 3,659,798, 5-2-72, Cl. 242-71.3.
- Mindt, Lothar: *See—*
- Van Dorp, David Adriaan; Akroyd, Philip; and Mindt, Lothar, 3,686,003.
- Mine, Akihiko; Satomi, Takeo; Hino, Naganori; Kamoshita, Katsuzo; Suzuki, Yoshitsugu; and Nakai, Shinji, to Sumitomo Chemical Company, Ltd. 2-(Substituted phenoxy)methyl)dioxolanes. 3,644,422, 2-22-72, Cl. 260-340.9.
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- Cooper, William J., 3,661,783.
- Cotabish, Harry N.; Wise, Layton A.; and Bubun, Elmer E., 3,655,346.
- Cotabish, Harry N., 3,683,907.
- Davison, Ellison L.; Brinkhoff, Carl H.; and Menold, Robert F., 3,667,834.
- Giebel, Joseph L.; and Temple, Ernest E., 3,693,862.
- Hiltz, Ralph H., 3,634,233.
- Hiltz, Ralph H., 3,666,672.
- King, Earle C., 3,638,496.
- McConnaughey, Paul W., 3,658,719.
- McConnaughey, Paul W., 3,684,456.
- Neidhart, John W.; and Snyder, Rutherford B., Jr., 3,658,058.
- Poli, Albert A., Jr.; and Delaune, Sidney D., 3,692,492.
- Strange, John P.; Nebash, Stanley P.; McInnes, Alexander C.; and McConnaughey, Paul W., 3,686,835.
- Temple, Ernest E.; and Heckathorne, George E., 3,653,139.
- Temple, Robert, 3,665,802.
- Tepper, Frederick; and Mausteller, John W., 3,692,026.
- Wise, Layton A., 3,638,648.
- Wise, Layton A., 3,675,296.
- Mine Safety Appliances Italiana, S.p.A.: *See—*
- Meyer, Emilio G., 3,646,803.
- Mine, Seizo: *See—*
- Shioyama, Osamu; Mine, Seizo; and Murata, Kikuzo, 3,699,228.
- Minchisa, Setuzi: *See—*
- Nakai, Tuneso; Ando, Akira; Minchisa, Setuzi; Kaneko, Shunsuke; Siraki, Yosinori; Inui, Tatuo; Nakazima, Hiroyuki; and Tominaga, Naotugu, 3,660,629.
- Minek, Klaus: *See—*
- Weber, Karl-Heinz; Bauer, Adolf; Danneberg, Peter; Minek, Klaus; and Pook, Karl-Heinz, 3,707,538.
- Minemura, Norihiro: *See—*
- Shimauchi, Shiro; Minemura, Norihiro; Matsui, Takeshi; Ito, Kenji; Shima, Takue; Kawase, Shoji; and Oshima, Masataka, 3,666,403.
- Mineo, Charles J. Plug with fuse. 3,634,804, 1-11-72, Cl. 337-206.
- Miner Enterprises, Inc.: *See—*
- Carlson, Robert L.; and Madland, Rolf A., 3,638,807.
- Danielson, Worrel M., 3,650,567.
- Fischer, Robert T.; and Martin, Byron W., 3,663,066.
- Trongeau, William J., 3,690,423.
- Miner, George Lindol: *See—*
- Angilly, Fredrick Ernest, Jr.; Miner, George Lindol; and Sousa, Lionel Anthony James, 3,667,195.
- Miner Industries, Inc.: *See—*
- Begleiter, Manny, 3,643,677.
- Begleiter, Manny, 3,692,071.
- Begleiter, Nancy, 3,684,046.
- Miner, James E.: *See—*
- Trent, Paul E.; and Miner, James E., 3,671,385.
- Miner, Jesse H.: *See—*
- Boswell, John E. E., Jr.; and Miner, Jesse H., 3,664,036.
- Miner, Robert G., to Trane Company, The. Refrigeration apparatus control. 3,633,376, 1-11-72, Cl. 62-181.
- Miner, William W.; and Owens, Roland, to Mil-Pac Systems, Inc. Rotor and rotor bearing assembly. 3,652,022, 3-28-72, Cl. 241-185.
- Miner, William W. Apparatus for harvesting sod. 3,672,452, 6-27-72, Cl. 172-19.000.
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- Mineral Products Corporation: *See—*
- Olton, Robert N.; and Berney, Bernard C., 3,705,838.
- Minerals Technology Corporation: *See—*
- Dorenfeld, Adrian C.; and Bitsianes, Gust, 3,649,250.
- Dorenfeld, Adrian C.; and Bitsianes, Gust, 3,689,253.
- Minero, Richard H.; deceased (by Beard, John Q.; administrator); Anello, Anthony J.; Furey, Robert G.; and Palounck, Lubos R., to International Business Machines Corporation. Checking by pseudoduplication. 3,660,646, 5-2-72, Cl. 235-153.000.
- Mineshima, Yukihiko: *See—*

- Kiyasu, Zen'iti; Kawashima, Masao; Sasaki, Shunroku; Mineshima, Yukihiko; and Kurita, Shyoichi, 3,699,567.
- Kobayashi, Toshio; and Mineshima, Yukihiko, 3,641,562.
- Minet, Albert Gustave. Machine for harvesting sugar cane. 3,670,481, 6-20-72, Cl. 56-17.
- Minet, Gunther Heinz: *See—*
- Wendler, Gerhard Hermann; and Minet, Gunther Heinz, 3,660,347.
- Mineura, Kazuyuki: *See—*
- Tanaka, Masao; Kishi, Teruo; and Mineura, Kazuyuki, 3,699,113.
- Ming, Joseph W.: *See—*
- Cogar, George R.; Sekse, Torkjell; Banziger, Walter; Ming, Joseph W.; and Horvath, Laszlo, 3,666,152.
- Minganti, Ernesto. Device for anchoring new-born babies umbilical cords until atrophy thereof. 3,674,032, 7-4-72, Cl. 128-346.000.
- Mingard, Marcel: *See—*
- Dubois, Gerald, 3,696,609.
- Mingareev, Ravkhat Shagimardanovich: *See—*
- Graifer, Valery Isaakovich; Komarov, Alexandr Ivanovich; Lysenko, Vladimir Dmitrievich; Mingareev, Ravkhat Shagimardanovich; and Mukharsky, Enver Davydovich, 3,664,418.
- Mingasson, Georges R. H.; and Domergue, Annick M.S.S., to Ugine Kuhlmann. 4-Naphthalinido pyrazolium salts. 3,649,633, 3-14-72, Cl. 260-281.
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- Mingat, Robert: *See—*
- Faure, Alphonse; Gigou, Claude; Mingat, Robert; and Ruau, Michel, 3,639,320.
- Minghetti, Anacleto: *See—*
- Amici, Alba-Maria; Minghetti, Anacleto; Scotti, Tullio; and Spalla, Celestino, 3,658,653.
- Mingus, Alex W. Apparatus for assembling elongated components in side-by-side relation. 3,693,232, 9-26-72, Cl. 29-211.00r.
- Minhas, Pritam S.: *See—*
- Anello, Louis G.; Boghosian, Edward Michael; Jones, Edward S.; Minhas, Pritam S.; Price, Alson K.; and Sweeney, Richard F., 3,641,083.
- Anello, Louis G.; Boghosian, Edward Michael; Jones, Edward S.; Minhas, Pritam S.; Price, Alson K.; and Sweeney, Richard F., 3,651,105.
- Mini Pro Sports, Inc.: *See—*
- Retrum, Fergus, 3,662,728.
- Minialoff, Edward P. Fascia sections with interfitting parts for building walls. 3,673,748, 7-4-72, Cl. 52-60.000.
- Miniature Electronic Components Corporation: *See—*
- Pihl, George E., 3,634,857.
- Pihl, George E., 3,678,426.
- Pihl, George E., 3,680,083.
- Pihl, George E., 3,704,462.
- Minicars, Inc.: *See—*
- Di Napoli, Nicholas; Friedman, Donald; Nicholls, Robin P.; Wilcox, Howard A.; and Wood, Charles E., 3,665,397.
- Minich, Paul R., Jr.; and Shaver, Donald E., to C & M Manufacturing Company, Inc. Mobile power washer. 3,687,156, 8-29-72, Cl. 137-334.000.
- Minick, Robert: *See—*
- Kendall, Giles Arthur; and Minick, Robert, 3,677,507.
- Minieri, Pasquale P., to Tenneco Chemicals, Inc. N-Substituted-6-nitroindazoles. 3,637,736, 1-25-72, Cl. 260-310.
- Minieri, Pasquale P., to Tenneco Chemicals, Inc. Surface-coating compositions containing organotin fungicides. 3,642,501, 2-15-72, Cl. 106-15.
- Minieri, Pasquale P., to Tenneco Chemicals, Inc. Method for the control of pests with triorganotin (substituted phenoxides). 3,677,738, 7-18-72, Cl. 71-97.000.
- Minieri, Pasquale Paul, to Tenneco Chemicals, Inc. 1,5-Substituted indazoles. 3,641,050, 2-8-72, Cl. 260-310.
- Minigrip, Inc.: *See—*
- Laguerre, Leon Ker, 3,701,191.
- Laguerre, Leon Ker, 3,701,192.
- Minigrip, Inc., mesne: *See—*
- Gutman, Isaj, 3,660,875.
- Minin, Vladimir Ivanovich: *See—*
- Bondarev, Konstantin Timofeevich; Kozmin, Mikhail Ivanovich; Minakov, Anatoly Gavrilovich; Minin, Vladimir Ivanovich; Mitkevich, Grigory Iosifovich; and Strekalov, Anatoly Vasilievich, 3,684,475.
- Mining & Chemical Products Limited: *See—*
- Abbott, Colin E., 3,632,451.
- Mining Equipment Manufacturing Corporation: *See—*
- Tabor, John R., 3,667,808.
- Mininno, Anthony; Slattery, John; and Shulman, Mildred. Transparent or translucent decorative unit having an encased light source and a self contained power arrangement. 3,684,882, 8-15-72, Cl. 240-10.000.
- Ministerul Energici Electrice: *See—*
- Dimo, Paul G.; and Dimo, Dimitrie P., 3,706,073.
- Ministerul Industriei constructiilor de Masini: *See—*
- Bereczky, Tiberiu; Grunwald, Ernest; and Crisan, Ioan, 3,637,475.
- Ministerul Industriei Constructiilor de Masini: *See—*
- Teodorescu, Dan, 3,633,083.
- Minkevich, Boris Iosifovich. Method of treating mineralized water. 3,640,695, 2-8-72, Cl. 71-1.
- Minkhorst, Jan H. K., to Stamcarbon N.V. Process for controlling the introduction of initiator in the high-pressure polymerization of ethylene. 3,657,210, 4-18-72, Cl. 260-94.9.
- Minkley, Alfred O., to Hooker Chemical Corporation. Metal plating of substrates. 3,658,661, 4-25-72, Cl. 204-30.
- Minkner, Ruthard; and Pick, Werner, to Regel & Messtechnik G.m.b.H. Gas pressure regulating valve. 3,633,608, 1-11-72, Cl. 137-220.
- Minks, Floyd M. High voltage ignition system transformer. 3,675,077, 7-4-72, Cl. 315-209.00r.
- Minks, Floyd M. Controlled electrical pulse source. 3,687,123, 8-29-72, Cl. 123-148.00c.
- Minks, Floyd M. Electrical terminal structure. 3,705,258, 12-5-72, Cl. 174-153.00r.
- Minks, Floyd M. Distributor with rotor advance input control. 3,705,501, 12-12-72, Cl. 64-25.000.
- Minks, Werner, to International Standard Electric Corporation. Electromagnetic flat-type relay. 3,707,691, 12-26-72, Cl. 335-192.000.
- Minkus, Herbert L., 1/2 to Sheppard, Albert M. Anti-pollution regenerative engine. 3,693,351, 9-26-72, Cl. 60-57.00r.
- Minmami, Shunsuke: *See—*
- Takayama, Yuzi; Ichimura, Yutaka; Minmami, Shunsuke; Aoyagi, Takanobu; and Takeda, Fumio, 3,703,491.
- Minneapolis Gas Company: *See—*
- Rader, Arnold M., 3,680,502.
- Minnehan, Lester C., to Owens-Illinois, Inc. Glass shaping. 3,666,434, 5-30-72, Cl. 65-177.000.
- Minner, Willy; and Lindner, Gerhard, to Telefunken Patentverwertungsgesellschaft m.b.H. Tunable input circuit. 3,636,455, 1-18-72, Cl. 325-379.
- Minnesota Automotive, Inc., mesne: *See—*
- Albertson, Robert V.; and Albertson, Victor N., 3,653,273.
- Minnesota Mining and Manufacturing Company: *See—*
- Abler Roger L.; and Strand, David L., 3,669,892.
- Allen, Michael George; and Beebe, George W., 3,632,843.
- Anderson, George de Wenter; and Watts, Ronald E., 3,689,270.
- Anderson, Glenn R., 3,683,807.
- Banitt, Elden H., 3,654,340.
- Banitt, Elden H., 3,663,592.
- Barclay, Ralph R., 3,679,814.
- Benigno, Paolo; and Primicerio, Fernando, 3,685,642.
- Bergstrom, Theodore R., 3,650,004.
- Bingham, Wallace Karl, 3,700,305.
- Bingham, Wallace Karl, 3,700,478.
- Bohn, Arlin L., 3,693,900.
- Bolles, Theodore F., 3,653,972.
- Borman, Maynard P., 3,662,937.
- Bradshaw, Thomas L., 3,685,199.
- Braun, David L., 3,661,302.
- Brewitz, Frederick G., 3,648,019.
- Brown, Harvey A.; and Jones, Robert B., 3,682,549.
- Busatto, Vinicio, 3,705,807.
- Calligaris, Ennio; Callaby, Roy; and Rossello, Mario, 3,650,747.
- Christiansen, Robert W., 3,644,953.
- Coles, Robert F.; and Sweeney, Norman P., 3,646,135.
- Conrad, Lawrence H., 3,640,606.
- Conrad, Lawrence H., 3,640,607.
- Conrad, Lawrence H., 3,649,102.
- Constantine, Nikiforos, 3,671,744.
- Cooper, Irvin J., 3,653,138.
- Cornell, Lew Wallace, 3,669,787.
- Courneya, Calice G., 3,649,352.
- Curtin, John L., 3,682,633.
- Dahlquist, Carl A., 3,681,190.
- Deckert, Fred W.; and Matson, Gale W., 3,642,937.
- DeVries, Richard Alan, 3,687,533.
- Donnelly, Charles A.; and Sanders, James F., 3,669,707.
- Doughty, John I.; and Christman, Philip G., 3,645,956.
- Doughty, John I.; and Christman, Philip G., 3,654,241.
- Downs, Dan Lloyd, 3,704,023.
- Dustin, Daniel S., 3,703,362.
- Dybvig, Douglas H., 3,649,332.
- Dybvig, Douglas H.; and Koshar, Robert J., 3,654,361.
- Edwards, William H.; and Lewis, Donald M., 3,632,053.
- Elder, James T.; and Wright, Donald A., 3,665,449.
- Elder, James T.; and Wright, Donald A., 3,697,996.
- Elton, Robert L., 3,640,829.
- Enright, Dennis J.; Kahabka, Richard D.; and Miller, Donald F., 3,699,501.
- Erickson, Merle L., 3,631,899.
- Esmay, Donald L., 3,654,369.
- Esmay, Donald L., 3,663,621.
- Evans, Roger L., 3,663,685.

Evans, Roger L., 3,663,687.
 Fayling, Richard E., 3,654,853.
 Fayling, Richard E., 3,683,328.
 Feldhaus, James F., 3,695,934.
 Fleming, Frederick A.; Koshar, Robert J.; and Wright, Charles D., 3,694,404.
 Fletcher, Robert B.; and Livermore, Kenneth W., 3,661,776.
 Franco, Simone; Leonil, Alvaro; and Marini, Manlio, 3,694,506.
 Freerks, Conrad T.; Huppert, James C.; and James, Ralph E., 3,645,049.
 Freerks, Conrad T.; and Luecke, Fred R., Jr., 3,668,814.
 Fridinger, Tomas L.; and Mutsch, Edward L., 3,646,062.
 Fridinger, Tomas L.; and Mutsch, Edward L., 3,681,386.
 Geiger, Robert W.; Teten, Alfred M.; and Paterson, William G., 3,634,061.
 Gobran, Ramsis; Kremer, Leon V.; and Ethier, Dolores O., 3,649,579.
 Goff, Robert F.; and Smith, David P., 3,665,182.
 Goff, Robert F., 3,665,185.
 Good, Paul J., 3,685,414.
 Gorbran, Ramsis; and Ofstead, Ronald F., 3,674,497.
 Groff, Gaylord L., 3,660,220.
 Groff, Gaylord L.; and Williams, Ronald H., 3,692,715.
 Grotenhuis, Ivan M.; and Kubiatowicz, David O., 3,663,686.
 Grotenhuis, Ivan M., 3,663,688.
 Gruenewald, Larry E.; and Kistner, John F., 3,694,301.
 Grundman, Roger V., 3,654,777.
 Guehler, Paul F.; and Neumayer, John Joseph, 3,642,444.
 Hall, Myron W.; and Chapman, Harvey A., 3,632,278.
 Haller, James R., 3,702,788.
 Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,637,729.
 Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,639,474.
 Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,642,817.
 Harrington, Joseph Kenneth, 3,663,708.
 Harrington, Thomas L.; and Jorgensen, Jens L., 3,664,242.
 Harrison, George C., 3,682,110.
 Heibel, Jerome D., 3,633,158.
 Hervig, Harold C., 3,639,567.
 Hinderaker, Philip D.; and Nelson, Karl E., 3,679,505.
 Hodge, Frederick J., 3,699,246.
 Hoerner, Alfred J., 3,687,251.
 Huffman, William A., 3,664,858.
 Hules, Conrad G., 3,689,117.
 Janssen, Edward W., 3,637,181.
 Jedlicka, Philip A., 3,696,715.
 Jensen, Robert A.; and Johnson, Orville M., 3,676,266.
 Johansson, Ronald C.; and Weeklund, Wayne Donald, 3,676,574.
 Jones, Derrick A., 3,677,161.
 Jonnes, Nelson; and Friedlander, William S., 3,660,849.
 Kangas, Larry G.; and Kline, Robert J., 3,643,629.
 Kilbane, George J., 3,687,705.
 Koshar, Robert J., 3,654,341.
 Koshar, Robert J., 3,704,311.
 Krinke, Harlan L., 3,636,350.
 Kubiatowicz, David O., 3,707,353.
 Kurhajec, George A.; and Neuvier, Erwin W., 3,655,758.
 Lee, John H.; and Collins, Thomas E., 3,662,371.
 Lee, John H., 3,699,569.
 Legacy, Lloyd W.; McAvoy, Thomas R.; and Nelson, Leonard E., 3,688,453.
 Leir, Charles M., 3,705,908.
 Lindell, Stanley M., 3,650,869.
 Lindlof, James A., 3,676,387.
 Lindsay, Thomas W., 3,641,605.
 Littmann, David, 3,633,703.
 Ljungkull, Gunnar R., 3,639,899.
 Ljungkull, Gunnar R.; and Johnson, Robert H., 3,678,458.
 Loucks, Millard U., 3,686,129.
 Loudas, Basil L.; and Rice, David E., 3,647,891.
 Loudas, Basil L.; and Vogel, Herward A., 3,681,292.
 Lunde, George G., 3,690,766.
 Lundell, Raymond C., 3,661,664.
 Mahmoodi, Parviz, 3,663,917.
 Mannar, Warren R.; and Kinderman, Richard J., 3,686,049.
 Manske, Wendell J., 3,682,673.
 McDonald, Joseph L., 3,655,565.
 McDonald, William J., 3,699,727.
 McKown, Alan G., 3,655,818.
 McKown, Alan G., 3,707,583.
 Menzel, David C., 3,633,195.
 Miller, Charles W., 3,678,221.
 Miller, Richard A., 3,656,952.
 Mitsch, Ronald A., 3,637,663.
 Mitsch, Ronald A., 3,674,785.
 Mitsch, Ronald A.; and Koshar, Robert J., 3,700,737.
 Moore, George G. I.; and Conway, Alvin C., 3,637,845.
 Moore, George G. I.; and Gerster, John F., 3,679,695.

Moore, George G. I.; Harrington, Joseph Kenneth; and Gerster, John F., 3,686,192.
 Moore, George G. I.; and Conway, Alvin C., 3,705,185.
 Moses, Donald W., 3,647,976.
 Moxness, James G.; Nelson, Harold H.; and Mara, Edward A. O., 3,706,489.
 Mukherjee, Joan M. W., 3,679,414.
 Mukherjee, Joan M. W., 3,685,993.
 Nelson, Robert B., 3,639,245.
 Nelson, Robert L., 3,661,717.
 Newman, Donald J.; Williams, Donald J.; and Berg, John R., 3,682,684.
 Nicholson, Geoffrey C.; and Newman, Donald J., 3,669,747.
 Oehmke, Richard W., 3,694,410.
 Ofstead, Ronald F.; and Gobran, Ramsis, 3,702,844.
 Ogden, Paul H., 3,660,511.
 Ogden, Paul H., 3,682,995.
 Olson, Melvin M., 3,661,874.
 Olyphant, Murray, Jr.; Cartier, Michael David; and Freeman, Charles Robert, 3,665,428.
 O'Mara, Edward A., 3,685,908.
 Paciorek, Walter J.; and Norton, Randolph, 3,685,734.
 Paidosh, Richard L., 3,704,369.
 Pankow, Paul A. H.; and Devries, Richard Alan, 3,666,361.
 Park, Joseph D.; and Choi, Sam Kwon, 3,637,871.
 Park, Joseph D.; and Nakata, Bruce T., 3,644,501.
 Pastor, Sheldon Lee, 3,633,806.
 Patel, Kalyanji U.; and Maier, John E., 3,655,727.
 Pavlik, Frank J., 3,668,233.
 Pearson, Walter C.; Quinn, Edward R.; and Thompson, Dorman N., 3,637,455.
 Ploss, William R., 3,693,611.
 Puffer, Nathan D., 3,632,198.
 Rambosk, George M., 3,635,848.
 Rambosk, George M.; Allen, Michael George; and Van Dyke Tiers, George, 3,697,485.
 Rathfelder, Siegfried F., 3,655,279.
 Raymond, Albert E., 3,663,472.
 Rebertus, Robert L., 3,692,771.
 Rebertus, Robert L.; and Fields, Richard P., 3,692,838.
 Reeds, John W., Jr., 3,685,899.
 Reynolds, Kenneth; and Hellings, Thomas David Grinter, 3,666,467.
 Riedesel, Richard G., 3,657,181.
 Robertson, Jerry E.; Harrington, Joseph Kenneth; and Banitt, Elden H., 3,639,361.
 Robertson, Jerry E., 3,681,441.
 Rohloff, Robert R., 3,691,289.
 Rosvold, Donald M., 3,705,072.
 Sagawa, Burt K., 3,673,962.
 Sagawa, Burt K., 3,677,643.
 Sanders, James F.; Baumgartner, Ronald R.; and Farago, Laszlo D., 3,669,706.
 Sargent, Jerald P., 3,670,699.
 Schaaf, Ronald L., 3,703,434.
 Schulz, Leo J.; and Warner, George L., 3,638,937.
 Schwandt, Theodore F., 3,633,502.
 Seim, William J., 3,656,088.
 Seppala, Harold J.; and Benz, Gerhard, 3,640,944.
 Shepard, Joseph W.; and Shely, Benjamin L., 3,655,383.
 Shevlin, Thomas S., 3,640,764.
 Shevlin, Thomas S., 3,666,921.
 Skoog, Ivan H., 3,681,076.
 Smith, George H., 3,640,718.
 Smith, Samuel; and Hubin, Allen J., 3,644,567.
 Snell, Robert B., 3,684,644.
 Sorgenfrei, Frederick J., 3,700,419.
 Stageberg, Wilfred E., 3,650,876.
 Stageberg, Wilfred E., 3,653,539.
 Stevens, Edward J., 3,707,416.
 Stevenson, William W., 3,683,447.
 Stivers, David A.; and Guenther, Richard A., 3,632,788.
 Strand, David L.; and Abler, Roger L., 3,650,956.
 Tagliafico, Giovan Battista; and Grazzini, Ferdinando, 3,647,458.
 Takkunen, Philip D., 3,693,750.
 Talbott, Richard L.; and Thompson, Phillip G., 3,632,606.
 Theissen, Donald R., 3,681,179.
 Theodorson, Jerald W., 3,660,216.
 Thompson, Phillip G., 3,692,815.
 Tiers, George Van Dyke; and Wiese, Joseph A., Jr., 3,707,377.
 Truskolaski, Bernard S., 3,676,277.
 Ulseth, John W., 3,703,996.
 Van Beusekom, Philip C., 3,671,236.
 Vogel, Herward A.; and Oien, Hans T., 3,637,758.
 Vogel, Herward A., 3,654,192.
 Vogel, Herward A.; and Oien, Hans T., 3,663,507.
 Vogelgesang, Peter J.; and Holm, John D., 3,668,699.
 Von Behren, Robert A., 3,692,255.
 Voss, Richard F.; and Winter, Phillip M., 3,648,498.
 Wangness, David A., 3,649,714.

Wear, Robert L., 3,657,185.
 Wear, Robert L., 3,666,713.
 Whittemore, Charles A.; and Spangler, Robert E., 3,639,345.
 Wiese, Joseph A., Jr., 3,632,379.
 Wiese, Joseph A., Jr.; and Barte, William B., 3,648,257.
 Wiese, Joseph A., Jr.; and Tiers, George Van Dyke, 3,663,257.
 Wiese, Joseph A., Jr.; and Dalzell, Rex J., 3,663,258.
 Wiese, Joseph A., Jr.; and Tiers, George Van Dyke, 3,684,552.
 Williams, Donald J., 3,632,377.
 Williner, Mario; and Breschi, Enzo, 3,652,853.
 Winter, Phillip M.; and Gardner, Gary A., 3,638,464.
 Wirth, Wayne M., 3,673,583.
 Wood, Donald E., 3,684,626.
 Wright, Charles D.; and Zollinger, Joseph La Mar, 3,689,560.
 Wright, Charles D.; and Zollinger, Joseph La Mar, 3,707,555.
 Wright, Donald A., 3,673,437.
 Yucel, Edgar K., 3,648,835.
 Zollinger, Joseph La Mar, 3,642,705.
 Minnesota Mining and Manufacturing Company, mesne: See—
 Hawkins, Paul Maddison, 3,688,531.
 Minnich, George E.: See—
 Howland, Robert W.; Minnich, George E.; and Van Fleet, Richard L., 3,694,930.
 Minnich, Stephen H., to General Electric Company. Superconductive cable system. 3,643,002, 2-15-72, Cl. 174-15.
 Minnick, Donald F., Jr., to Thermal Components, Inc. Vehicle cab ventilator. 3,657,992, 4-25-72, Cl. 98-2.11.
 Minnick, Leonard John, to Corson, G. & W.H., Inc. Sulfopozzolani-cally active fly ash and composition. 3,634,115, 1-11-72, Cl. 106-85.
 Minnick, Leonard John, to Corson, G. & W. H., Inc. Method of purifying hydrates of calcined dolomite and magnesite. 3,677,703, 7-18-72, Cl. 23-186.000.
 Minnick, William J., to Corson, G. & W. H., Inc. Slagging in basic steel-making process and compositions therefor. 3,645,719, 2-29-72, Cl. 75-94.
 Minnie, Armand F., to Monsanto Company. Extrusion die with adjustable dams. 3,647,346, 3-7-72, Cl. 425-466.
 Minnier, Henry B.: See—
 Frey, James O.; and Minnier, Henry B., 3,684,731.
 Frey, James O.; Marshall, Harry L.; and Minnier, Henry B., 3,704,232.
 Minnis, Ralph L.: See—
 Baltazzi, Evan S.; Blanchette, Robert G.; and Minnis, Ralph L., 3,672,889.
 Minnite, Ralph. Article elevating device. 3,698,553, 10-17-72, Cl. 209-173.000.
 Mino, Shinziro: See—
 Ohsawa, Mitsuo; and Mino, Shinziro, 3,665,320.
 Minolta Camera Co., Ltd.: See—
 Kobayashi, Tatsuo; and Ueda, Hiroshi, 3,687,026.
 Sugano, Shigeaki; and Uesugi, Kyojo, 3,671,109.
 Takahama, Sho, 3,641,893.
 Takahama, Sho, 3,653,306.
 Tanaka, Harumi, 3,696,718.
 Tenkumo, Shohei; and Kuramoto, Yoshio, 3,693,523.
 Ueda, Hiroshi, 3,688,657.
 Wazumi, Seiichi, 3,668,985.
 Minolta Camera Kabushiki Kaisha: See—
 Ataka, Takeshi; Tenkumo, Shohei; Sekita, Minoru; and Nakaniwa, Yuji, 3,635,142.
 Fujii, Yoshifusa, 3,668,994.
 Hayashi, Toshio, 3,668,987.
 Imura, Toshinori, 3,672,280.
 Katsuragi, Mamoru, 3,703,859.
 Kawai, Yoshihisa, 3,692,401.
 Kobayashi, Tatsuo; and Hasegawa, Yoshikazu, 3,638,545.
 Kobayashi, Tatsuo; Maeda, Keisuke; and Uesugi, Kyojo, 3,643,578.
 Kobayashi, Tatsuo; and Maeda, Keisuke, 3,664,243.
 Kobayashi, Tatsuo, 3,672,277.
 Kobayashi, Tatsuo; and Ota, Yoshiharu, 3,701,942.
 Kabori, Toshio, 3,698,300.
 Kono, Tateomi, 3,673,905.
 Kudo, Tetsuo; Nakatani, Kozo; and Koda, Kiyoyasu, 3,679,387.
 Kuramoto, Yoshio; and Inagaki, Shotaro, 3,664,246.
 Kuramoto, Yoshio; and Inagaki, Shotaro, 3,675,558.
 Kuramoto, Yoshio; Okamoto, Akio; and Kabori, Toshio, 3,686,711.
 Kuramoto, Yoshio; and Kabori, Toshio, 3,688,674.
 Kushima, Teizo; and Ogawa, Masaya, 3,631,838.
 Kushima, Teizo; Tanaka, Susumu; and Ogawa, Masaya, 3,690,759.
 Maeda, Keisuke, 3,665,830.
 Matsuda, Motonobu, 3,667,357.
 Mori, Masao, 3,675,555.
 Murata, Tomoji; and Ishihara, Toshiaki, 3,668,376.
 Murata, Tomoji; and Tanaka, Atsuyuki, 3,671,123.
 Nakamura, Kitamaro, 3,692,408.
 Nakatani, Keiji; and Takebe, Kaoru, 3,677,640.
 Naya, Mikio; Yamaguchi, Haruki; and Horie, Izumi, 3,672,217.

Ogawa, Masaya, 3,648,656.
 Ogawa, Masaya, 3,669,412.
 Sahara, Masayoshi, 3,683,767.
 Seino, Kuniki, 3,671,104.
 Sekida, Minoru, 3,638,547.
 Sekida, Minoru, 3,646,868.
 Tanaka, Harumi, 3,667,363.
 Tanaka, Susumu, 3,664,833.
 Tanaka, Susumu; and Wada, Ken-ichi, 3,703,399.
 Tanaka, Toyoki; and Irie, Yutaka, 3,637,305.
 Tenkumo, Shohei, 3,698,304.
 Tsujimoto, Kayoshi; Kuramoto, Yoshio; and Kabori, Toshio, 3,705,338.
 Ueda, Hiroshi; and Matsuda, Motonobu, 3,654,843.
 Ueda, Hiroshi; Yata, Kintaro; and Matsuda, Motonobu, 3,678,822.
 Uesugi, Kyojo, 3,704,658.
 Uesugi, Kyojo, 3,706,269.
 Umeda, Kaoru, 3,659,805.
 Umeda, Kaoru; Ishii, Kenjiro; and Endo, Hiroshi, 3,690,532.
 Yamanaka, Akira, 3,672,278.
 Yamanoi, Yorio, 3,659,937.
 Yamanoi, Yorio, 3,672,329.
 Yamanoi, Yorio, 3,689,142.
 Yamashita, Maki; and Kobayashi, Haruo, 3,690,228.
 Yamazaki, Yasuo; Furuta, Mitsuo; and Kuramoto, Yoshio, 3,661,065.
 Yanagi, Akio; and Kakuta, Shoichiro, 3,648,580.
 Yanagi, Akio; and Nakata, Shoichiro, 3,652,168.
 Yasu, Hideo, 3,656,509.
 Yata, Kintaro; Noda, Koji; and Ueda, Hiroshi, 3,680,955.
 Yoshiyama, Ichiro; Okishima, Yoshiro; and Harada, Saburo, 3,633,144.
 Minor, Jacob C.: See—
 Schuller, Walter H.; Minor, Jacob C.; Block, Seymour S.; and Lawrence, Ray V., 3,636,215.
 Minor, Paul S.: See—
 Vancamp, Raymond M.; Minor, Paul S.; and Muren, Albert P., Jr., 3,679,373.
 Minor, Robert N.: See—
 Stager, Francis W.; and Minor, Robert N., 3,647,111.
 Minor, Ronald E.; and McMillion, Sidney B., to Eskimo Pie Corporation. Method for extrusion of ice cream. 3,647,478, 3-7-72, Cl. 99-137.
 Minoru, Shindo; Kanji, Maro; and Teizo, Shinozaki, to Chugai Seiyaku Kabushiki Kaisha. Process for preparing 7-chloro-1,3-dihydro-1-methyl-5-phenyl-2H-1,4-benzodiazepin-2-one. 3,692,776, 9-9-72, Cl. 260-239.30d.
 Minos, Inc.: See—
 Adelman, Conrad, 3,682,541.
 Minowa, Osamu: See—
 Miyamoto, Hiroshi; Isojima, Tsuyoshi; and Minowa, Osamu, 3,701,317.
 Minowa, Tsutomu, to Hitachi, Ltd. AC generator directly coupled to an internal combustion engine. 3,694,661, 9-26-72, Cl. 290-1.000.
 Minox G.m.b.H.: See—
 Rinm, Jurgen, 3,655,949.
 Minshull, John F.: See—
 Arulpragasam, Jeganandaraj A.; Binks, Dennis C.; Holmes, John J.; Minshull, John F.; Pinnell, Martin C.; and Williams, Clive, 3,680,052.
 Minshull, John F.; and Murphy, Alan S., to International Business Machines Corporation. Auto-sequencing associative store. 3,681,762, 8-1-72, Cl. 340-172.500.
 Minshull, John Francis: See—
 Flinders, Michael; Gardner, Peter Lycett; Hallett, Michael Henry; Jones, John W.; Minshull, John Francis; and Taylor, Keith Graham, 3,646,516.
 Minshull, Robert: See—
 Fitzmaurice, Colin; and Minshull, Robert, 3,665,013.
 Minsk, Louis Morton: See—
 Brust, David Philip; Minsk, Louis Morton; and Abel, Edward Peter, 3,700,635.
 Minsk, Louis Morton; Cohen, Hyman L.; and Frauenglass, Elliott, to Eastman Kodak Company. Polymeric hardeners containing aziridinyl units on the side chain. 3,671,256, 6-20-72, Cl. 96-111.000.
 Minsky Opytny Zavod Spetsialnogo Konstrukorskogo Bjuro No. 3: See—
 Perminov, Evgeny Mikhailovich, 3,682,108.
 Perminov, Evgeny Mikhailovich, 3,703,768.
 Minsky opytny zavod Spetsialnogo Konstrukorskogo Bjuro No. 3: See—
 Perminov, Evgeny Mikhailovich, 3,699,844.
 Minster Machine Company, The: See—
 Eickenhorst, Frank C., 3,704,775.
 Ridgway, Merrill L.; and Kaiser, Willard D., 3,707,255.
 Mintech Corporation: See—
 Hand, John W.; Lockwood, Don L.; and Harris, Robert K., 3,704,011.
 Minter, David E.: See—
 Fraimi, Edward A.; and Minter, David E., 3,663,433.

- Minter, Ronald H.: *See—*
Barker, John S. N.; and Minter, Ronald H., 3,659,179.
- Minto, Wallace L., to Kinetics Corporation. Heat to power conversion method and apparatus. 3,636,706, 1-25-72, Cl. 60-36.
- Minton, Carl H. Method and apparatus for joining strip ends employing a stitcher assembly. 3,670,398, 6-20-72, Cl. 29-505,000.
- Minton, Clarence W., to Americal Corporation. Yarn cutter for hosiery knitting machines. 3,654,778, 4-11-72, Cl. 66-145,000.
- Minton, Clarence W., to Americal Corporation. Positive sinker control for multifeed knitting machines. 3,657,890, 4-25-72, Cl. 66-108,000.
- Minton, Robert G.; and Melamed, Sidney, to Rohm & Haas Company. Elastomeric materials and process therefor. 3,673,280, 6-27-72, Cl. 260-878,000.
- Mintray Limited: *See—*
Brown, Philip, 3,694,817.
- Mintz, Beatrice, to Institute for Cancer Research. The. Method of bioassay of fertility and contraceptive drugs. 3,690,310, 9-12-72, Cl. 128-2,000.
- Mintz, Maxie R. Post anchor. 3,694,978, 10-3-72, Cl. 52-166,000.
- Mintz, Michael D., to International Technidyne Corporation. Method and system for analyzing a liquid. 3,695,842, 10-3-72, Cl. 23-230,000.
- Mintz, Milton S.: *See—*
Lacey, Robert E.; and Mintz, Milton S., 3,676,335.
- Minutillo, Leonard D.: *See—*
McQueen, John; and Minutillo, Leonard D., 3,689,791.
- Minx Products, Inc.: *See—*
Walger, Philip F.; and Walger, William F., 3,637,000.
- Minyard, James P.: *See—*
Hedin, Paul A.; Miles, Lavenia R.; Minyard, James P.; and Thompson, Alonzo C., 3,657,414.
- Minz, Franz-Rudolf; and Zingiebl, Eberhard, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of sodium carbonate. 3,644,089, 2-22-72, Cl. 23-63.
- Minzenberger, Thomas C., to Zenith Radio Corporation. Process of back etching a perforated metal mask for color TV tubes. 3,679,499, 7-25-72, Cl. 156-7,000.
- Mio Marine Corporation: *See—*
Rabideau, Gerald T., 3,664,285.
- Miocque, Marcel: *See—*
Gautier, Jean Albert; Miocque, Marcel; Fauran, Claude; and Le Cloarec, Albert Yves, 3,632,593.
- Gautier, Jean Albert; Miocque, Marcel; Fauran, Claude; and Le Cloarec, Albert Yves, 3,632,594.
- Miocque, Marcel Y.: *See—*
Gautier, Jean A.; Miocque, Marcel Y.; Moskowitz, Henri; Blanc-Guenece, Janine L.; Raynaud, Guy M.; and Dorme, Nicole A. M., 3,655,762.
- Mioduski, George T., to General Electric Company. Hand proximity alarm control circuit. 3,675,051, 7-4-72, Cl. 307-308,000.
- Miquel, Jean: *See—*
Juguin, Bernard; Le Page, Jean Francois; and Miquel, Jean, 3,696,167.
- Mirabed AG, mesne: *See—*
Krier, Philipp; and Fendler, Lothar, 3,660,876.
- Miracle Hub and Wheel, Inc.: *See—*
Leach, Raymond B., 3,664,710.
- Miracle Pet Products, Inc.: *See—*
Duke, Bernard; and Levensohn, David Z., 3,643,694.
- Duke, Bernard; and Levensohn, David Z., 3,671,151.
- Miraldi, Floro D., to Case Western Reserve University. Tomographic radiation sensitive device. 3,688,113, 8-29-72, Cl. 250-71,500.
- Miraldi, Peter Thomas, to American Sterilizer Company. Door assembly and chamber combination. 3,694,960, 10-3-72, Cl. 49-209,000.
- Miram, George V.: *See—*
Duchmann, Charles A.; and Miram, George V., 3,636,400.
- Miran, George V.; and Kuehne, Gerhard B., to Varian Associates. Electron gun. 3,706,002, 12-12-72, Cl. 315-5,390.
- Miranda Camera Company Limited: *See—*
Shimada, Kunio, 3,634,001.
- Miranda Inc.: *See—*
Lamarche, Denis; and Decarie, Maurice, 3,636,021.
- Miranda, Ronald P.: *See—*
Fetzer, Fred; and Miranda, Ronald P., 3,654,664.
- Miranda, Salvatore W. Sealing of underwater fissures. 3,643,741, 2-22-72, Cl. 166-295.
- Mirando, Louis: *See—*
Polk, Edgwin R.; Polansky, Sidney; and Mirando, Louis, 3,661,153.
- Mirara, Keiziro: *See—*
Notani, Masaaki; Ashibe, Makoto; Nishitani, Yasuo; and Mirara, Keiziro, 3,636,253.
- Mirels, Harold: *See—*
Spencer, Donald J.; Mirels, Harold; Jacobs, Theodore A.; and Gross, Rolf W. F., 3,688,215.
- Mirick, William M., to Battelle Development Corporation. The. Correction fluid composition. 3,674,729, 7-4-72, Cl. 260-23,000.
- Mirjanic, Milorad, to Daimler-Benz Aktiengesellschaft. Cylinder block for liquid-cooled internal combustion engines with inserted cylinder liner. 3,672,263, 6-27-72, Cl. 92-144,000.
- Mirjanic, Milorad, to Daimler-Benz Aktiengesellschaft. Method for the manufacture of centrifugal castings. 3,694,194, 9-26-72, Cl. 75-130,000.
- Mirkovic, Ninko Tihomir, to RCA Corporation. Brake apparatus. 3,638,881, 2-1-72, Cl. 242-204.
- Mirkovic, Radivoj: *See—*
Beslin, Dragoljub; Beherano, Benko; and Mirkovic, Radivoj, 3,645,020.
- Mirmina, Paul C.: *See—*
Carlson, Ernest R.; Mackiewicz, Czeslaw; and Mirmina, Paul C., 3,663,864.
- Mironov, Vladimir Florovich: *See—*
Kozjukov, Vladimir Petrovich; Mironov, Vladimir Florovich; and Shelduyakov, Viktor Dmitrievich, 3,642,854.
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- Mirsch, John Walter, to RCA Corporation. Color picture tube beam convergence apparatus. 3,701,065, 10-24-72, Cl. 335-212,000.
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Hata, Toju; Kamada, Hideo; Wakaki, Shigetoshi; Kudo, Shiro; Tomioka, Keitaro; Mirumo, Hirofuto; Kato, Eturo; and Shimizu, Motoaki, 3,660,578.
- Mirviss, Stanley B.: *See—*
Giulito, Silvio L.; and Mirviss, Stanley B., 3,677,948.
- Weil, Edward D.; Stamm, Walter; and Mirviss, Stanley B., 3,636,083.
- Mirviss, Stanley B., to Stauffer Chemical Company. Vinyl chloride polymers stabilized with N-heterocyclic disulfides. 3,635,881, 1-18-72, Cl. 260-45,8.
- Mirviss, Stanley B.; Greco, Carl C.; and Stamm, Walter, to Stauffer Chemical Company. Aryl ether thioanhydrides. 3,642,890, 2-15-72, Cl. 260-545.
- Mirviss, Stanley B., to Stauffer Chemical Company. Hydroxynaphthoic anhydrides. 3,681,455, 8-1-72, Cl. 260-545,000.
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- Mis, Frank J., to Harris-Hub Company, Inc. Bed frame assembly. 3,683,429, 8-15-72, Cl. 5-201,000.
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Honda, Kyomi; and Misaki, Koji, 3,661,629.
- Misaki, Tetsuo: *See—*
Sawaka, Jiro; Misaki, Tetsuo; Okabe, Masao; Yasui, Hajime; Hanada, Kazunori; and Okazaki, Tadayasu, 3,652,400.
- Misare, Donald O., to Joslyn Mfg. and Supply Co. Corona free coupling assembly for coaxial cables. 3,673,311, 6-27-72, Cl. 174-73,000.
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Kadera, Václav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemec, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, 3,647,312.
- Misarek, Joseph; and Jaxheimer, William W., to Combustion Control Devices, mesne. Air pollution controller. 3,668,839, 6-13-72, Cl. 55-223,000.
- Misato, Tomomasa; Huang, Keng Tang; Shirato, Shiroh; Seino, Akio; Nakamura, Yuko; Aizawa, Shojiro; and Taguchi, Ryusuke, to Kaken Kagaku Kabushiki Kaisha and Rikagaku Kenkyusho. Antibiotic anabomycin-A and process for preparing the same. 3,657,422, 4-18-72, Cl. 424-122.
- Misawa, Masanaru: *See—*
Nakayama, Kiyoshi; Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, 3,650,897.
- Nara, Takashi; Misawa, Masanaru; and Komuro, Toshio, 3,668,071.
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- Misch, Michael. Film matching apparatus. 3,656,843, 4-18-72, Cl. 352-129.
- Misch, Robert D.; and Daus, Donald A., to MBT Corporation. Method of treating synthetic plastic and elastomeric materials and articles produced thereby. 3,637,416, 1-25-72, Cl. 117-72.
- Mischek, Hugo, to Siler AG. Vehicle for transporting containerized freight. 3,690,489, 9-12-72, Cl. 214-390,000.
- Mischel, Howard T., to AVRCA Corporation. Flexible coupling. 3,692,337, 9-19-72, Cl. 285-226,000.

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Glos, Franz; and Mischke, Joachim, 3,696,010.
- Mischler, Terrence W.: *See—*
Kroe, Robert L.; and Mischler, Terrence W., 3,655,889.
- Mischutin, Vladimir, to Arkansas Company, Inc. Process for flame-proofing and resultant product. 3,671,304, 6-20-72, Cl. 117-136,000.
- Mise, Noritoshi: *See—*
Matsui, Yutaka; Mise, Noritoshi; Goto, Jugo; and Yokoo, Makoto, 3,676,402.
- Mise, Noritoshi; Yamada, Minoru; and Nishino, Ken-ichi, to Takeda Chemical Industries, Ltd. Polyurethanes stabilized with p-phenylenediamines. 3,637,573, 1-25-72, Cl. 260-37.
- Misek, Victor A.; and Myers, Robert, to Sanders Associates, Inc. Electro-optical perimeter intrusion alarm. 3,641,549, 2-8-72, Cl. 340-258.
- Misek, Victor A., to Sanders Associates, Inc. Electro-optical target motion sensor. 3,677,647, 7-18-72, Cl. 356-28,000.
- Misenheimer, James Reid: *See—*
Dunlap, Donald Thomas; and Misenheimer, James Reid, 3,634,295.
- Misevich, Kenneth W., to Remington Arms Company, Inc. Acknowledge-monitor logic device with memory. 3,631,876, 1-4-72, Cl. 137-87.
- Misevich, Kenneth W., to Remington Arms Company, Inc. Return monitor with logic device. 3,631,892, 1-4-72, Cl. 137-608.
- Misevich, Kenneth W., to Remington Arms Company, Inc. Sheet target with attachable stabilizing wings. 3,675,926, 7-11-72, Cl. 273-105,400.
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Ogi, Hideo; Ozaki, Haruo; Mishiro, Masaru; Horikawa, Yoshikazu; and Mori, Shunji, 3,646,772.
- Mishkin, Abraham Rudolph; and Symbolik, William Stephen, to Societe d'Assistance Technique pour Produits Nestle S.A. Drying apparatus. 3,633,283, 1-11-72, Cl. 34-73.
- Mishkin, Sidney: *See—*
Kurtz, Leonard; Bidwell, Robert; Mishkin, Sidney; and Hallstein, Edward, 3,683,913.
- Mishler, Ralph Ephraim, to Globe-Union Inc. Apparatus for simultaneously applying a plurality of coatings to a substrate. 3,645,232, 2-29-72, Cl. 118-412.
- Mishler, Ralph Ephraim, to Globe-Union Inc. Apparatus for successively applying a plurality of coatings to a substrate. 3,645,233, 2-29-72, Cl. 118-642.
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- Miske, Stanley A., Jr., to General Electric Company. Current limiting sparkgap with means for regulating gap voltage. 3,663,856, 5-16-72, Cl. 313-325.
- Miskei, Mihaly: *See—*
Fekete, Laszlo; Pataricza, Imre; Bodi, Dezso; Gyuricza, Jozsef; Miskei, Mihaly; and Orszag, Ferenc, 3,650,688.
- Miskin, Richard B. Baled hay hoading apparatus for loading onto a transport vehicle. 3,667,779, 6-6-72, Cl. 280-473.
- Miskolczy, Gabor; and Kaiser, Robert, to Avco Corporation. Absorption refrigeration system. 3,667,251, 6-6-72, Cl. 62-476,000.
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Tinet, Claude; and Misme, Pierre, 3,636,768.
- Misner, Howard R., to Ford Motor Company. Apparatus for forming a bend in sheet material. 3,632,275, 1-4-72, Cl. 425-405.
- Misomex Aktiebolag of Ellen Keys Gata: *See—*
Soe, Hartvig, 3,686,763.
- Missel, Leo, to International Business Machines Corporation. Shelf life improvement of electroplated solder. 3,639,218, 2-1-72, Cl. 204-40.
- Missimer, Dale J., to Gulf & Western Industries, Inc. Control system for low temperature refrigeration system. 3,698,202, 10-17-72, Cl. 62-114,000.
- Missio, Danilo V.; Wollman, Herbert; and Englander, Irving G., to Syston-Donner Corporation, mesne. Optical tanker-docking system. 3,690,767, 9-12-72, Cl. 356-5,000.
- Mission Manufacturing Company: *See—*
Gardner, Jimmy D., 3,693,736.
- Mississippi Chemical Corporation: *See—*
Brown, Marion L., Jr.; Green, Albert W.; and Blanton, Elmer L., 3,647,412.
- Mississippi State University Development Foundation, Inc.: *See—*
Ammerman, Gale R., 3,706,333.
- Misson, George W., to PPG Industries, Inc. Gas hearth with particular gas-supply channels. 3,682,610, 8-8-72, Cl. 65-182,000.
- Missouri Lead Operating Company: *See—*
Poller, Harry S., 3,662,862.
- Missouri Research Laboratories, Inc.: *See—*
Dickman, John J., 3,696,527.
- Fiehler, Raymond H.; Dickman, John J.; and Diamant, Max, 3,645,012.
- Missud, Louis. Excrement receptacle device for animals. 3,656,459, 4-18-72, Cl. 119-95.
- Mistarz, Robert J., to Cherry-Burrell Corporation, mesne. Machine for automatically forming, filling, closing and sealing cartons. 3,669,160, 6-13-72, Cl. 141-160,000.
- Mistler, Richard E., to Western Electric Company, Incorporated. Strengthening alumina substrates by incorporating grain growth inhibitor in surface and promoter in interior. 3,652,378, 3-28-72, Cl. 161-182.
- Mistrellettrica S.R.L.: *See—*
Battigalli, Giancarlo, 3,634,935.
- Battigalli, Giancarlo, 3,634,936.
- Misu, Hiroshi: *See—*
Sato, Akio; Misu, Hiroshi; Shiba, Keisuke; and Hinata, Masanao, 3,635,721.
- Shiba, Keisuke; Hinata, Masanao; Sato, Akira; and Misu, Hiroshi, 3,649,288.
- Misu, Sadayuki. Vacuum bottle. 3,638,820, 2-1-72, Cl. 215-13.
- Misuno, Komei: *See—*
Kishi, Toykazu; Harada, Setsuo; Misuno, Komei; Higashide, Eiji; and Shibata, Motoo, 3,691,181.
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- Mita Industrial Company, Ltd.: *See—*
Nihyakumen, Kouzi; Yokoyama, Taizo; Ueda, Yasuo; Kamezawa, Yasutoki; and Aizawa, Tatsuo, 3,653,903.
- Washio, Takaji; Tohi, Yasusuke; and Aizawa, Tatsuo, 3,695,754.
- Yokoyama, Taizo, 3,679,420.
- Mita, Kunio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Automatic camera shutter. 3,631,777, 1-4-72, Cl. 95-10.
- Mita, Kunio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Reflex camera with automatic exposure control. 3,695,159, 10-3-72, Cl. 95-10,000.
- Mita, Masazo: *See—*
Kado, Matayuki; and Mita, Masazo, 3,668,973.
- Mitabe, Tsutomu: *See—*
Matsui, Toshiji; Amano, Yasuhiko; Hotta, Yoshitsugu; and Mitabe, Tsutomu, 3,683,784.
- Mitacek, Bill, to Phillips Petroleum Company. Electrical cable having sheath layers bonded with adhesive. 3,697,670, 10-10-72, Cl. 174-107,000.
- Mitamura, Rakuzo; Yamaya, Masatoshi; and Suzuki, Masakatsu, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Rear body construction for an automobile. 3,661,419, 5-9-72, Cl. 296-24.
- Mitani, Masao; Aihara, Katuzo; Kudo, Mitsuhiro; Hara, Nobuhiro; Irie, Fujio; and Yamafuji, Kaoru, to Hitachi, Ltd. Josephson junction having an intermediate layer of a hard superconducting material. 3,697,826, 10-10-72, Cl. 317-234,000.
- Mitani, Naoyuki: *See—*
Uchida, Mitsuo; Iketani, Tadanao; and Mitani, Naoyuki, 3,692,048.
- Mitchell, Allen F., to Galdonost Dynamics (N.Z.) Limited. Liquid fertilizer compositions. 3,649,239, 3-14-72, Cl. 71-23.
- Mitchell, Archibald S., to LaSalle Machine Tool, Inc. Apparatus for detecting broken tools. 3,669,557, 6-13-72, Cl. 408-16,000.
- Mitchell, Charles: *See—*
Murry, Edward J.; and Mitchell, Charles, 3,681,627.
- Mitchell, Chauncey L., III, to Electronic Assistance Corporation. Method and apparatus for separating particulate materials. 3,675,859, 7-11-72, Cl. 241-20,000.
- Mitchell, Colin Campbell; deceased (by Wishart, Andrew; and by Pattullo, John Patrick; executors), to Brown Brothers & Company Limited. Stabilizing apparatus for ships. 3,688,726, 9-5-72, Cl. 114-126,000.
- Mitchell, David F.; and Romanuskas, William A., to Sorvall, Ivan, Inc. Washing means for flexible bags in split enclosures. 3,674,197, 7-4-72, Cl. 233-14,000.
- Mitchell, David S.; Bridge, Alan G.; and Scott, John W., to Chevron Research Company. Heavy oil conversion using fine particles. 3,674,682, 7-4-72, Cl. 208-157,000.
- Mitchell, Dominic C.: *See—*
French, Franklin J.; and Mitchell, Dominic C., 3,634,136.
- Mitchell, Donita L. Medicine dispenser with nipple-insert. 3,645,413, 2-29-72, Cl. 215-11.
- Mitchell, Douglas, to Technicon Instruments Corporation. Analysis of fluids. 3,678,734, 7-25-72, Cl. 73-61,100.
- Mitchell, Drury K.: *See—*
United States of America, National Aeronautics and Space Administration, 3,694,094.
- Mitchell, Edward: *See—*
McGuire, Robert J.; Mitchell, Edward; and Pellegrini, John P., Jr., 3,696,051.
- Mitchell, Edward B.: *See—*

- Carlson, Peter T.; Weremey, Frederick J.; and Mitchell, Edward B., 3,662,288.
- Mitchell, Edward B., to TRW Inc., mesne. Pushbutton switch with liquid drainage facilitating cage body and diaphragm sealing and actuating means. 3,676,626, 7-11-72, Cl. 200-159.00r.
- Mitchell, Ferd H.: *See—*
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- Mitchell, George F., Jr.; Morris, Robert D.; and Nevinsky, Michael, to Westinghouse Electric Corporation. High-current furnace transformer. 3,681,728, 8-1-72, Cl. 336-90.000.
- Mitchell, Graham George: *See—*
- Roach, Ronald John; and Mitchell, Graham George, 3,654,955.
- Mitchell, Harry Ian; and Tomlinson, Kenneth, to Colgate-Palmolive Company. Method and compositions for cleaning ovens and the like. 3,672,993, 6-27-72, Cl. 134-3.000.
- Mitchell, Harry R.: *See—*
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- Mitchell, Hartman, to Koppers Company, Inc. Pallet heat rib shield. 3,638,928, 2-1-72, Cl. 263-28.
- Mitchell, Hartman; and Victorisz, Joseph A., to Koppers Company, Inc. Water-cooled panel. 3,661,372, 5-9-72, Cl. 266-915.
- Mitchell Industries, Inc.: *See—*
- Younkin, James R., 3,648,230.
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- Mitchell, Jack H., Jr. Process for making peanut flakes. 3,689,287, 9-5-72, Cl. 99-126.000.
- Mitchell, Jack L.: *See—*
- Fisher, James E.; Mitchell, Jack L.; and Wisdom, Gerald F., 3,693,918.
- Mitchell, James A.: *See—*
- Mack, Ronald H.; Kondur, Nicholas, Jr.; and Mitchell, James A., 3,667,383.
- Mitchell, James E.: *See—*
- Alms, Erhard E.; and Mitchell, James E., 3,645,511.
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- Mitchell, James E. Method of determining the concentration of inorganic sulfur compounds in a gas. 3,692,481, 9-19-72, Cl. 23-230.0pc.
- Mitchell, James G.: *See—*
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- Mitchell, James H.; and Mueggenburg, Hans H., to United States of America, Air Force. Platelet injector. 3,664,588, 5-23-72, Cl. 239-418.000.
- Mitchell, James P.; and Brown, Bruce T., to United Aircraft Corporation. Injector head. 3,662,960, 5-16-72, Cl. 239-400.000.
- Mitchell, James P.; and Cohen, Allan R., to United Aircraft Corporation. Dual orifice impingement injector. 3,667,232, 6-6-72, Cl. 60-258.000.
- Mitchell, John: *See—*
- Buckley, Charles Harold; and Mitchell, John, 3,656,986.
- Buckley, Charles Harold; Collier, Geoffrey Lionel; and Mitchell, John, 3,660,130.
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- Dawson, Fred; Mitchell, John; Rogers, Leslie Richard; Todd, William; and Topham, Arthur, 3,661,611.
- Mitchell, John. Synchronous radar recorder and reproducer. 3,634,858, 1-11-72, Cl. 343-5.
- Mitchell, John E., to Hughes Aircraft Company. Intraconnector wiring change module. 3,671,918, 6-20-72, Cl. 339-18.00r.
- Mitchell, John G., to Mobil Oil Corporation. Confinement of different miscible liquids in a single container. 3,658,080, 4-25-72, Cl. 137-1.
- Mitchell, John H.: *See—*
- Smith, William F.; Mitchell, John H.; Edwards, William M.; and Cox, Phillip W., 3,680,975.
- Mitchell, John H. Automatic log grappling mechanism. 3,651,952, 3-28-72, Cl. 212-84.
- Mitchell, John H. Remote control grapple carriage operated by yarding machine. 3,695,672, 10-3-72, Cl. 294-112.000.
- Mitchell, John Pat. Magnetic dental appliances and methods for using same. 3,646,676, 3-7-72, Cl. 32-2.
- Mitchell, John R.: *See—*
- Bachi, Robert W.; and Mitchell, John R., 3,659,795.
- Mitchell, Joseph A.; and Dyer, Norman D., to Dresser Industries, Inc. Pipe racking apparatus for oil well derricks or the like. 3,633,767, 1-11-72, Cl. 214-2.5.
- Mitchell, Kenneth A. Thermal container assembly. 3,670,918, 6-20-72, Cl. 220-20.000.
- Mitchell, Kim L.: *See—*
- Campbell, Hollis O.; Fetrow, John W.; and Mitchell, Kim L., 3,704,681.
- Fetrow, John W.; and Mitchell, Kim L., 3,648,642.
- Mitchell, Lawrence C., to Ethyl Corporation. Preparation of beta branched primary alcohols. 3,642,914, 2-15-72, Cl. 260-642.
- Mitchell, Lawrence R.; and Conkling, William C., to Pennwalt Corporation. Tandem diaphragm metering pump for corrosive fluids. 3,666,379, 5-30-72, Cl. 417-395.000.
- Mitchell, Luther W.: *See—*
- Trigg, Harry E.; and Mitchell, Luther W., 3,707,264.
- Mitchell, Maurice M., Jr.; Fisher, Harold M.; and Tomezsko, Edward S., to Atlantic Richfield Company. Method for carrying out reactions of unsaturated hydrocarbons at low temperatures. 3,655,792, 4-11-72, Cl. 260-666.
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- Mitchell, Michael E., to General Electric Company. Error correcting decoder utilizing estimator functions and decision circuit for bit-by-bit decoding. 3,639,901, 2-1-72, Cl. 340-146.1.
- Mitchell, Norris W.; Skraba, Frank W.; and Houston, William L., Jr., to Phillips Petroleum Company. Solvent skimming device for caustic washer. 3,681,897, 8-8-72, Cl. 55-227.000.
- Mitchell, Olga M. M.; Ross, Carolyn A.; and Wallace, Robert L., Jr., to Bell Telephone Laboratories, Incorporated. Ambient noise suppressor. 3,644,674, 2-22-72, Cl. 179-1.
- Mitchell, Olga Mary Mracek: *See—*
- Berkley, David Arthur; Mitchell, Olga Mary Mracek; and Pierce, John Robinson, 3,699,271.
- Mitchell, Paul H., to Fort Smith Table & Furniture Co. Linkage assembly for folding tables and the like. 3,662,694, 5-16-72, Cl. 108-131.
- Mitchell, Paul J., Jr., to SW Industries, Inc. Paper manufacturing roll construction and process. 3,639,957, 2-8-72, Cl. 29-120.
- Mitchell, Paul J., Jr., to SW Industries, Inc. Process for squeezing water from paper sheet. 3,685,436, 8-22-72, Cl. 100-37.000.
- Mitchell, Peter G., to Ikor, Incorporated. High power wide bandwidth pulse generator. 3,681,656, 8-1-72, Cl. 315-223.000.
- Mitchell, Peter W. D.; and Blumenthal, Jack Herbert, to International Flavors & Fragrances, Inc. 7-Methyl-octadienenitriles. 3,655,722, 4-11-72, Cl. 260-465.9.
- Mitchell, Philip A., to Kendall Company, The. Tetrahedral wiping pad. 3,648,319, 3-14-72, Cl. 15-118.
- Mitchell, Phillip G.; Hagans, Fredrick S.; Baker, James Noel; and McClendon, Glenn R. Vehicle low tire pressure signal system. 3,646,514, 2-29-72, Cl. 340-58.
- Mitchell, Reid L.; Murphy, Charles F.; and LaPolla, Edmund M., to ITT Rayonier Incorporated. Heat-sealable hydroxyethyl cellulose film and process for preparing same. 3,652,316, 3-28-72, Cl. 117-73.
- Mitchell, Reid L.; Muller, Thomas E.; Stevens, Hugh D.; and Tabke, Robert S., to International Telephone and Telegraph Corporation. Process for forming hydroxyethyl cellulose fibers having high water absorption and high water retention properties. 3,670,06, 6-13-72, Cl. 264-187.
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- Guildford, Leslie Henry; and Mitchell, Richard Frank, 3,660,663.
- Mitchell, Richard Frank, to U.S. Philips Corporation. Piezoelectric transducers having variable sensitivity between the boundaries of the piezoelectric crystal. 3,671,784, 6-20-72, Cl. 310-9.500.
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- Mitchell, Robert D., to Holley Carburetor Company. Throttle lock-out arrangement. 3,682,149, 8-8-72, Cl. 123-119.00r.
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- Mitchell, Robert K., to Battelle Development Corporation, The. Fluid pressure control. 3,672,796, 6-27-72, Cl. 418-26.000.
- Mitchell, Robert M.; and Oberkircher, Frederick D., Jr., to Continental Can Company, Inc. Container and closure combination. 3,688,942, 9-5-72, Cl. 220-60.00r.
- Mitchell, Robert S.: *See—*
- Matzner, Edwin A.; and Mitchell, Robert S., 3,654,169.
- Mitchell, Robert W., to Seneca Plastic Limited. Optical shutter system and methods related thereto. 3,653,758, 4-4-72, Cl. 352-100.
- Mitchell, Robert W., to Stewart & Stevenson Services, Inc. Air start system for airplanes. 3,661,170, 5-9-72, Cl. 137-351.000.
- Mitchell, Robert W. Apparatus for computing color balance characteristics and preparing improved color prints. 3,690,763, 9-12-72, Cl. 355-88.000.
- Mitchell, Roy O.; and Schmid, Hermann, to General Electric Company. High speed high accuracy sample and hold circuit. 3,696,305, 10-3-72, Cl. 330-51.000.
- Mitchell, Seldon G.: *See—*
- Rothrock, Harry E., Jr.; and Mitchell, Seldon G., 3,684,636.
- Mitchell, Terrance R.: *See—*
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- Mitchell, Thomas; and Grossman, Frederick; deceased (by Hinde, Doris; administrator), to Kenyon, William, & Sons Limited and Isle of Man, The. Transmission means such as spindle tapes. 3,665,773, 5-30-72, Cl. 74-231.00r.
- Mitchell, Tyrone D.: *See—*
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- Mitchell, Wallace F., to Ammco Tools, Inc. Spacer assembly. 3,663,045, 5-16-72, Cl. 287-52.07.

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- Mitchell, William, to Eco Pump Corporation. Mechanical seal for centrifugal pumps. 3,655,295, 4-11-72, Cl. 415-113.
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- Mitchell, William A.; and Klose, Robert, to General Foods Corporation. Green coffee decaffeination using edible ester solutions. 3,682,648, 8-8-72, Cl. 99-70.000.
- Mitchell, William D.; and Soboczenski, Edward J., to Du Pont de Nemours, E. I., and Company. Phenylureas as plant growth modifiers. 3,682,618, 8-8-72, Cl. 71-120.000.
- Mitchell, William Eric, to Dunlop Company Limited, The. Method of mounting a pneumatic tire on a deformable rim. 3,639,964, 2-8-72, Cl. 29-159.01.
- Mitchell, William S.: *See—*
- Boost, Charles C.; Mitchell, William S.; and Horton, David M., 3,669,870.
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- Mite Corporation: *See—*
- Barkas, Emanuel, 3,683,409.
- Donovan, Timothy F.; and Ryan, William P., 3,651,260.
- Hoffman, Ernest G.; and Ryan, William P., 3,651,259.
- Wallace, Robert P., 3,640,655.
- Mitkevich, Eduard Mikhailovich; Korobanov, Vladimir Nikolaevich; Babkina, Vera Jurievna; Shakhova, Alexandra Filippovna; Medoviev, Vladimir Nikolaevich; and Gaidash, Nikolai Ivanovich. Method of producing calcium chloride and sodium chloride. 3,682,602, 8-72, Cl. 23-303.000.
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- Bondarev, Konstantin Timofeevich; Kozmin, Mikhail Ivanovich; Minakov, Anatoly Gavrilovich; Minin, Vladimir Ivanovich; Mitkevich, Grigory Iosifovich; and Strekalov, Anatoly Vasilievich, 3,684,475.
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- Miton, Pierre: *See—*
- Laforest, Jean; and Miton, Pierre, 3,703,466.
- Mitori, Yukio: *See—*
- Yamanouchi, Akira; Takenaka, Seisuke; and Mitori, Yukio, 3,697,350.
- Mitre Corporation, The: *See—*
- Sutherland, Norman B., 3,659,354.
- Mitrofanoff, Nicholas S.: *See—*
- Abernathy, Roger E.; and Mitrofanoff, Nicholas S., 3,676,852.
- Bunker, William H.; Kerr, John W.; Mitrofanoff, Nicholas S.; and Swearingen, Kent W., 3,680,054.
- Finnegan, Edward D.; Harper, Leonard Roy; Mitrofanoff, Nicholas S.; and Slutman, Allen C., 3,701,105.
- Mitrofanov, Jury Eremeevich: *See—*
- Bekhtle, Georgiy Alexandrovich; Myasnikov, Nikolai Fedorovich; Mitrofanov, Jury Eremeevich; Berestov, Evgeny Stepanovich; Kauvasinsky, Albert Frantsevich; Leibson, Mark Lazarevich; and Derkach, Viktor Gershovich, 3,690,454.
- Mitron Research & Development Corporation: *See—*
- Rosenberg, Robert A., 3,642,056.
- Mitrovic, Milan: *See—*
- Berger, Julius; Marusich, Wilbur Lewis; and Mitrovic, Milan, 3,652,763.
- Hoffer, Max; and Mitrovic, Milan, 3,634,446.
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- Hayes, John C.; Mitsche, Roy T.; Rausch, Richard E.; and Wilhelm, Frederick C., 3,660,309.
- Hayes, John C.; Mitsche, Roy T.; Rausch, Richard E.; and Wilhelm, Frederick C., 3,702,293.
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- Mitsu Toatsu Chemicals, Inc.: *See—*
- Konoki, Keizo; and Ohsaki, Kozo, 3,684,442.
- Mitsubishi Acetate Company Limited: *See—*
- Tokitomo, Soichi; Honda, Masakazu; Nakayama, Fumio; and Ueno, Keisiro, 3,675,541.
- Mitsubishi Aluminum Company Limited: *See—*
- Kawaguchi, Shigenori; Toi, Yoshioki; and Suyama, Shiyozo, 3,688,548.
- Mitsubishi Chemical Industries Limited: *See—*
- Hamamoto, Masao; Kamo, Seiichi; and Nakayama, Kiyoshi, 3,698,885.
- Iwasaki, Koichiro; Yamaguchi, Kazuo; Kakogawa, Genjiro; Ohtsuka, Yasuo; and Kasahara, Kanji, 3,642,748.
- Iwasaki, Koichiro; Yamaguchi, Kazuo; Kimura, Harutaka; Hasuo, Masayoshi; and Tanaka, Toru, 3,674,764.
- Matsuzawa, Katsuto; and Matsui, Kazuo, 3,639,448.
- Mine, Keiji, 3,697,315.
- Nagasawa, Fujio; Okamoto, Shosuke; Takagi, Eiichi; Yokoi, Mikio; and Mangyo, Mitsuo, 3,639,626.
- Ohsumi, Yoshio; Matsunaga, Yoshiki; Ishida, Hiroshi; Onoda, Takeshi; Onishi, Masaru; Kasugai, Hiroshi; and Namiki, Tadao, 3,636,034.
- Okada, Hitoshi; Imahori, Seiichi; and Hirako, Susumu, 3,697,525.
- Okuno, Kenzo; Itagaki, Takaharu; Isogai, Yoshimasa; Yoshida, Kazuo; Fujiki, Konosuke; and Odagawa, Katumi, 3,666,809.
- Suzuki, Yoshiaki; Yamura, Akira; and Fukasawa, Kenichiro, 3,642,834.
- Mitsubishi Denki Kabushiki Kaisha: *See—*
- Akamatsu, Masahiko, 3,683,267.
- Aoki, Masao, 3,661,459.
- Ashiya, Masahiro, 3,663,875.
- Awazu, Kenzo; Matsunaga, Kazuo; Muto, Katsutoshi; Kai, Junjiro; and Oi, Kyoko, 3,673,103.
- Dhno, Eiichi; and Akamatsu, Masahiko, 3,665,286.
- Fujikawa, Kyoichiro; and Takamiya, Saburo, 3,668,439.
- Hayashi, Masayuki; and Yamane, Mitsunori, 3,651,438.
- Ikedo, Hiroshi, 3,641,301.
- Itoh, Toshio; Miyamoto, Toshio; and Wada, Yuichi, 3,670,282.
- Kawashima, Katsuhiko, 3,700,918.
- Kitaoka, Takashi; and Shirashoji, Akira, 3,670,225.
- Kitaura, Kouichi, 3,681,586.
- Kito, Katsumi, 3,670,862.
- Kobayashi, Kyojo, 3,668,357.
- Kobayashi, Takanori, 3,665,876.
- Komata, Toranosuke; Ishihara, Katsumi; and Hashimoto, Yasuo, 3,671,226.
- Kondo, Akihiro, 3,668,551.
- Kubota, Nobuo, 3,695,075.
- Matsumoto, Tsuyoshi, 3,656,355.
- Mitsui, Tsuneo; Baba, Jun-ichi; and Yamada, Ikuro, 3,675,002.
- Mochizuki, Masayuki, 3,639,717.
- Nagai, Nobuo; Tada, Shoji; and Ujita, Katsu, 3,649,875.
- Nakahara, Shojiro; and Kurebayashi, Hidetoshi, 3,670,267.
- Nakata, Josuke, 3,641,403.
- Nakata, Josuke; and Denda, Ryuji, 3,671,821.
- Nakata, Josuke, 3,697,833.
- Nitta, Tohei; Shibuya, Yoshikazu; and Fujiwara, Yukio, 3,679,939.
- Noda, Masahiro, 3,703,652.
- Obata, Yoshiyuki, 3,648,017.
- Obata, Yoshiyuki, 3,683,268.
- Saito, Toshikazu, 3,689,806.
- Saito, Nagao; Kobayashi, Kazuhiko; and Niwa, Susumu, 3,655,936.
- Saito, Nagao; and Kobayashi, Kazuhiko, 3,670,136.
- Saito, Nagao; and Koike, Kazushige, 3,694,610.
- Saito, Nagao; Kobayashi, Kazuhiko; and Takagi, Shigeru, 3,705,287.
- Shirashoji, Akira, 3,643,149.
- Suzuki, Masataka; and Shibata, Minoru, 3,681,557.

- Takeuchi, Koichi; Okada, Takeo; and Aoki, Shinichi, 3,668,350.
 Ukai, Jun; and Hiramatsu, Masaki, 3,637,973.
 Ukai, Jun; and Sugiyama, Hisao, 3,652,028.
 Yamada, Naoya; and Tada, Shoji, 3,662,221.
 Yamagata, Kiyoshi; Matsura, Kiyoshi; Ito, Toshio; Miyamoto, Toshio; and Wada, Yuichi, 3,644,860.
 Yokoyama, Masahiro, 3,702,127.
 Yoneda, Yoshitada, 3,657,611.
 Yoshino, Masataka; Kamiya, Akimi; Ogawa, Nin; Oguri, Atsushi; and Muramatsu, Shigeo, 3,666,007.
 Mitsubishi Edogawa Kagaku Kabushiki Kaisha: *See—*
 Yonemitsu, Eiichi; Isshiki, Tomiya; Suzuki, Tsuyoshi; and Yashima, Yukio, 3,678,107.
 Yonemitsu, Eiichi; Isshiki, Tomiya; Suzuki, Tsuyoshi; and Sanada, Akihiko, 3,691,232.
 Yoshikawa, Yoshio; Kondo, Hiroshi; Sugio, Akitoshi; and Kato, Tomotake, 3,664,035.
 Yoshikawa, Yoshio; and Sakai, Yasuhiro, 3,666,409.
 Mitsubishi Electric Corporation: *See—*
 Koike, Kazushige, 3,684,682.
 Kurahashi, Koichiro; and Ikebata, Shigeki, 3,665,246.
 Kurahashi, Koichiro; and Nakada, Masanori; Abe, Masaaki; and Nishimura, Koichi, 3,702,896.
 Nagafuchi, Kazumi; Inada, Hitoshi; Ohmura, Nobuaki; Manago, Seiji; Tsunashima, Asaji; and Hazu, Masataka, 3,636,787.
 Nomaguchi, Tamotsu; Tabata, Norikazu; and Ito, Toshio, 3,685,950.
 Ogura, Daihachi, 3,656,704.
 Oke, Syoichi; and Kobayashi, Takanori, 3,647,039.
 Saito, Nagao; Kuji, Yoichi; and Arai, Sinji, 3,654,420.
 Shunichiro, Nishizaki; and Akira, Fukami, 3,674,741.
 Taniguchi, Ichiro; and Ando, Shigeru, 3,689,159.
 Wada, Shouji, 3,684,209.
 Mitsubishi Gas Chemical Company Inc.: *See—*
 Miyamoto, Akira; and Akiyama, Hiroyuki, 3,687,592.
 Mitsubishi Heavy Industries, Ltd.: *See—*
 Evans, Clive, 3,653,427.
 Mitsubishi Jidosha Kogyo Kabushiki Kaisha: *See—*
 Higuchi, Toshio; Miyabe, Hideyuki; and Hiramatsu, Takeo, 3,650,160.
 Mitamura, Rakuzo; Yamaya, Masatoshi; and Suzuki, Masakatsu, 3,661,419.
 Nagasawa, Shigeo, 3,690,768.
 Mitsubishi Jidosha Kogyo Kabushiki Kaisha, mesne: *See—*
 Nagasawa, Shigeo, 3,698,373.
 Mitsubishi Jukogyo Kabushiki Kaisha: *See—*
 Abe, Kaoru; Matsumoto, Takeji; and Itoki, Nobuo, 3,672,115.
 Arita, Yukio; Nakao, Yoshiaki; Iwai, Takashi; and Tagaya, Koozoo, 3,633,419.
 Fujii, Masaru; Sagara, Kazuo; and Isomura, Shuichi, 3,665,276.
 Fujimura, Tsutomu; Kamata, Hiroshi; Yamaguchi, Tomio; and Fukue, Hisanobu, 3,636,441.
 Fukuda, Shozo, 3,638,437.
 Hirai, Masuhiko; and Fukushima, Takeo, 3,680,756.
 Hirota, Nobuyoshi; and Onoshima, Yoshio, 3,664,965.
 Hizume, Akio; Ohyaigi, Shuji; and Tanaka, Shigeo, 3,651,688.
 Hozoji, Akira; and Takatsu, Toshiharu, 3,635,060.
 Iwahashi, Koji; Ueda, Kenji; and Katsuta, Kihci, 3,684,672.
 Iwahashi, Koji, 3,694,307.
 Kawazu, Yoshio; and Egami, Tadashi, 3,652,098.
 Kitamura, Tetsuo; and Tamai, Akira, 3,707,333.
 Kushida, Keizo, 3,651,658.
 Murakami, Akira, 3,684,395.
 Muto, Masataro; Yagasaki, Masaaki; and Hosumi, Ken, 3,633,896.
 Muto, Masataro; and Yagasaki, Masaaki, 3,648,993.
 Nagatomo, Kuniyasu, 3,643,549.
 Oda, Masao; and Kimima, Noriaki, 3,684,104.
 Oda, Teishiro; and Nakamura, Makoto, 3,650,845.
 Oda, Teishiro; Nakamura, Makoto; and Szma, Masato, 3,661,658.
 Oda, Teishiro; and Daikoku, Takashi, 3,689,257.
 Sagara, Hideo, 3,652,070.
 Sagara, Hideo, 3,698,223.
 Shigematsu, Hiroji; Yamaguchi, Tomio; Fukue, Hisanobu; Ogawa, Hiroshi; Hashimoto, Takashi; Murakoshi, Kenichi; Suguri, Susumu; and Fujimura, Tsutomu, 3,699,436.
 Suzuki, Yasuhiro; Ikegami, Renpei; and Kishimoto, Takuo, 3,647,090.
 Takagi, Koichi; and Yamada Masuho, 3,682,470.
 Takezawa, Isao; Muto, Masataro; and Hori, Koichi, 3,675,606.
 Taniguchi, Kaname; Furukawa, Fujio; Hisatome, Tomiro; and Kimura, Yoshito, 3,677,660.
 Tateishi, Mataji, 3,695,784.
 Tsukamoto, Hidehiko; and Maeda, Nobutaka, 3,678,719.
 Ueda, Kenji, 3,645,880.
 Ujiie, Akira, 3,665,143.
 Ujile, Akira, 3,707,613.
 Uziic, Akira; and Nagata, Junichi, 3,683,997.
 Mitsubishi Jukogyo Kabushiki Kaisha Isbukawajima-Harima Jukogyo Kabushiki Kaisha: *See—*
 Kosui, Tsuguo; Seki, Masahiro; Takamatsu, Shuji; and Kojima, Sakusaburo, 3,682,196.
 Mitsubishi Jushi Kabushiki Kaisha: *See—*
 Nagano, Hiroshi; Tomioka, Hideo; Yamataka, Akira; and Yoshida, Hirohiko, 3,635,634.
 Mitsubishi Jyukogyo Kabushiki Kaisha: *See—*
 Nishikawa, Hideo; Kawaguchi, Akihiro; Washimi, Koichi; and Kambayashi, Masaaki, 3,631,920.
 Mitsubishi Kasei Kogyo Kabushiki Kaisha: *See—*
 Fukazawa, Yoshiaki; Iwata, Yoshitaka; and Sakurai, Shigeharu, 3,669,797.
 Mitsubishi Kasei Kogyo Kabushiki Kaisha; a/k/a Mitsubishi Chemical Industries Limited: *See—*
 Yamawaki, Takeshi; Usami, Masakatsu; Suzuki, Tetsumi; and Uematsu, Takao, 3,674,759.
 Mitsubishi Kasei Kogyo Kabushiki Kaisha; a/t/a Mitsubishi Chemical Industries Limited: *See—*
 Akamatsu, Susumu, 3,682,736.
 Sueda, Hideo; Yamawaki, Takeshi; Kida, Keiichi; Hayashi, Masahiro; Endo, Kazuo; and Kaneko, Mamoru, 3,639,553.
 Mitsubishi Kenki Kabushiki Kaisha: *See—*
 Endo, Yoshitaka; Tomiyama, Katsumi; and Takanashi, Yasushi, 3,702,435.
 Mitsubishi Kimoku Kogyo Kabushiki Kaisha: *See—*
 Kono, Hiroshi; and Shibazaki, Takeyoshi, 3,666,440.
 Mitsubishi Kinzoku Kogyo Kabushiki Kaisha: *See—*
 Nara, Kizo; Sukekawa, Izumi; and Yamada, Yasuo, 3,696,656.
 Toda, Kazuo; Murai, Tosuke; Miura, Chikatoshi; and Tanura, Yuichi, 3,694,196.
 Mitsubishi Oil Co., Ltd.: *See—*
 Toyoguchi, Mitsuru; and Iijima, Hiroshi, 3,661,765.
 Mitsubishi Paper Mills, Ltd.: *See—*
 Kurita, Takaji; Motoki, Masaya; Emoto, Kazuhiro; and Hojo, Katsuo, 3,671,646.
 Ohya, Yasushi; Futaki, Kiyoshi; Tosa, Senji; Horiuchi, Yoshikazu; and Takemura, Akira, 3,666,471.
 Ohya, Yasushi; Futaki, Kiyoshi; and Tosa, Senji, 3,702,246.
 Uchida, Koji; and Kuriu, Sadao, 3,697,304.
 Mitsubishi Petrochemical Co., Ltd.: *See—*
 Furukawa, Junji; and Morikawa, Hiroyuki, 3,641,187.
 Hagino, Seiji; Masuda, Kohei; Hasegawa, Kazumasa; and Hosono, Yasuzi, 3,655,486.
 Hori, Toshio; Hotta, Junichi; Kiyoshi, Mabuchi; and Nakajima, Yoshio, 3,634,377.
 Hori, Toshio; Yamato, Akira; and Shiraishi, Masao, 3,644,556.
 Koga, Michio; and Kani, Masaru, 3,644,321.
 Koga, Michio; and Ando, Kiyobumi, 3,661,260.
 Morikawa, Hiroyuki, 3,642,924.
 Morikawa, Hiroyuki, 3,658,926.
 Morikawa, Hiroyuki; and Furukawa, Junji, 3,663,639.
 Morikawa, Hiroyuki, 3,689,585.
 Morikawa, Hiroyuki, 3,696,108.
 Nagase, Sadao, 3,671,617.
 Nakano, Mamoru; Kadowaki, Koju; Komura, Isao; Koshikawa, Takeo; and Oshida, Bunzi, 3,703,550.
 Nakase, Yoshiaki; Yoshida, Masaru; Ito, Akihiko; and Okamura, Seizo, 3,652,436.
 Nitta, Haruo; and Sagawa, Naotoshi, 3,663,682.
 Ogino, Yoshisada; Igarashi, Akira; and Tsuchiya, Michio, 3,634,532.
 Okamoto, Akio; and Uno, Taiko, 3,694,538.
 Sakata, Rikita; Masuda, Kohei; and Takashi, Masanori, 3,671,383.
 Sato, Takehiko; and Sagami, Hiroyuki, 3,647,907.
 Sennari, Mutsuo; and Nakajima, Toshihiro, 3,670,053.
 Shiraishi, Masao; and Maeda, Kiyoshi, 3,687,911.
 Tago, Satoshi, 3,700,764.
 Tashiro, Kijuro; and Yokoyama, Masuzo, 3,676,418.
 Yamaguchi, Yasuji; and Nakayama, Yujiro, 3,704,161.
 Yamamoto, Akira; Miyako, Toyoharu; and Maeda, Kiyoshi, 3,663,727.
 Yoshiyasa, Mitsuo; Saito, Sadao; and Miyabe, Yoshio, 3,660,141.
 Mitsubishi Rayon Co., Ltd.: *See—*
 Ashina, Yoshiro; Oshima, Iwao; and Sekine, Kazunori, 3,701,761.
 Higashimura, Einosuke; and Nakamura, Eiichi, 3,651,002.
 Ide, Fumio; Okano, Kenji; and Deguchi, Seiji, 3,644,249.
 Ide, Fumio; Okano, Kenji; and Deguchi, Seiji, 3,644,250.
 Ide, Fumio; and Miura, Masanobu, 3,651,175.
 Ishii, Masao; Sunamore, Takashi; and Kimura, Sadao, 3,652,478.
 Kato, Tetsuji; Izumi, Mikio; Hayashibara, Yuji; and Suenaga, Kazuo, 3,655,824.
 Kawai, Atsushi; and Suzuki, Migaku, 3,689,622.
 Kawai, Atsushi; Katsuyama, Takehiro; Suzuki, Migaku; and Takimoto, Hisao, 3,697,637.
 Kosaka, Kenzo; Tsunewaki, Masami; Tanaka, Hideo; and Aoki, Akira, 3,702,055.
 Matsuzawa, Hideo; Itoh, Hirotohi; and Yoshioka, Teruhiko, 3,647,640.

- Miyamoto, Haruo; Uchida, Hideho; and Uehara, Masaru, 3,674,621.
 Mizushima, Kyohei; and Yada, Yukio, 3,688,384.
 Nakatsuka, Kazuo; Ide, Fumio; Ito, Kazuo; and Yamamoto, Norimasa, 3,644,575.
 Okumura, Munehiro; Nishikawa, Tatsuki; and Nishikawa, Nobuaki, 3,649,611.
 Ozawa, Goro; Kosaka, Kenzo; Adachi, Kiyoshi; Okaya, Tsutomu; and Arik, Takeo, 3,656,214.
 Sadakata, Kazuo; Sasaki, Minoru; Hirose, Masahiro; Nakamura, Yasuo; Mikida, Yukio; Ito, Kazuo; and Kimura, Kuninobu, 3,639,513.
 Tokitomo, Soichi; Honda, Masakazu; Nakayama, Fumio; and Ueno, Keisiro, 3,675,541.
 Mitsubishi Seiko Kabushiki Kaisha: *See—*
 Akuta, Tomohiko; Seya, Atsumi; and Hashirizaki, Shinya, 3,670,833.
 Mitsugi, Koji: *See—*
 Maeda, Itsutoshi; Nomura, Yasuichi; Hashimoto, Kohei; Shimizu, Akira; Mitsugi, Koji; and Yoshida, Ryonosuke, 3,707,505.
 Mitsugi, Koji; Nakase, Takashi; and Hasegawa, Yoshisuke, to Ajinomoto Co., Inc. Acid protease and method of preparing the same, 3,677,898, 7-18-72, Cl. 195-62.000.
 Mitsugi, Takashi: *See—*
 Kondo, Eiji; and Mitsugi, Takashi, 3,665,022.
 Mitsuhashi, Masakazu: *See—*
 Hirao, Mamoru; and Mitsuhashi, Masakazu, 3,692,580.
 Yoshida, Mikihiko; Mitsuhashi, Masakazu; and Hidao, Mamoru, 3,705,811.
 Mitsuhashi, Masakazu; Hirao, Mamoru; and Sugimoto, Kaname, to Hayashibara Company. Low calorie sweetener mixture of maltitol and maltotriitol, 3,705,039, 12-5-72, Cl. 99-28.000.
 Mitsui Fluorochemicals Company: *See—*
 Inouye, Ryuichiro; Nishikawa, Manaka; and Akano, Akimi, 3,650,981.
 Mitsui, Hiromitsu, to Kabushiki Kaisha Suwa Seikosha. Solid state electronic watch, 3,668,861, 6-13-72, Cl. 58-50.00r.
 Mitsui Mining & Smelting Co., Ltd.: *See—*
 Ichiki, Minoru; and Ushimura, Yutaka, 3,702,286.
 Ishii, Masahito, 3,684,516.
 Kuwahara, Kenshi; Sonoda, Shigetada; and Ishii, Masahito, 3,705,137.
 Miyazaki, Kazuhide; and Tozawa, Seiichi, 3,640,683.
 Mitsui, Nobuo; Hatakeyama, Takanobu; and Komuro, Katsu, to Hitachi, Ltd. Control apparatus for an elevator car, 3,687,235, 8-29-72, Cl. 187-29.00r.
 Mitsui Petrochemical Industries, Ltd.: *See—*
 Arakawa, Takaaki; Saeiki, Kenji; Sato, Yoshikuni; and Kitazawa, Yoriya, 3,652,705.
 Arakawa, Takaaki; and Sato, Yoshikuni, 3,660,519.
 Kashiwa, Norio; Tokuzumi, Tadaichi; and Fujimura, Hiroshi, 3,642,746.
 Kashiwa, Norio, 3,647,772.
 Kashiwa, Norio; Tohoru, Tomoshige; Kobayashi, Toshio; and Honma, Shiro, 3,705,886.
 Kunugi, Taisei, 3,639,449.
 Okamoto, Katsumi; Iwama, Seiya; Ozawa, Sanshiro; and Moriwaki, Tutomu, 3,634,564.
 Wada, Shigeru; Oi, Hidesaburo; Matsuzawa, Norio; Nishimura, Hiroshi; and Sasaki, Juntaro, 3,701,763.
 Mitsui Shipbuilding and Engineering Co., Ltd.: *See—*
 Iwami, Akira, 3,654,887.
 Karakawa, Kouichi; and Tanigawa, Shogo, 3,633,882.
 Maeda, Kazuo, 3,698,344.
 Maeda, Kazuo, 3,703,153.
 Ozawa, Tokuji; Ueda, Mikio; Hashimoto, Ryosuke; and Suzuki, Shigenori, 3,696,166.
 Sakata, Masanobu; Nagata, Keniti; and Nagamori, Shigeru, 3,690,730.
 Tabuchi, Ichiro; Iwami, Akira; Harita, Yasuhiro; and Yamamoto, Toshiaki, 3,669,284.
 Tabuchi, Ichiro; and Harita, Yasuhiro, 3,680,518.
 Yamura, Ietoshi, 3,680,512.
 Mitsui Toatsu Chemicals, Incorporated: *See—*
 Asahi, Matahiko; Murakami, Hisamichi; Hasegawa, Yukio; Matsui, Hideo; and Takayanagi, Eifu, 3,679,348.
 Fujii, Kenzo; Kanai, Kazumichi; Inoue, Shigeru; Matsuo, Kiyoshi; and Asakura, Masami, 3,683,057.
 Fujiwara, Ryozo; Ohara, Eiji; and Maeda, Kazuo, 3,677,699.
 Kii, Toshimichi; and Suka, Motoshi, 3,679,651.
 Konoki, Keizo; and Ohsaki, Kozo, 3,640,052.
 Maruyama, Mitsuo; Okabe, Akira; Yamazaki, Hideo; Sakai, Hideaki; Shimazu, Tadao; Kajiya, Shotaro; and Noda, Katsunobu, 3,651,056.
 Miyake, Yasuhiko; Takayanagi, Eifu; Narita, Shigeo; Shin, Masaaki; Hayashi, Roshio; and Sakurai, Koichi, 3,676,053.
 Okubo, Ichiro; and Tsujimoto, Michihiro, 3,637,673.
 Otsuka, Eiji; Kanai, Kazumichi; and Inoue, Shigeru, 3,686,305.
 Tsuruta, Masami; Ito, Shinji; and Otsuka, Ichiro, 3,694,522.
 Watanabe, Hiroo; Yamamoto, Koosuke; Abe, Takeshi; and Kawamata, Motoo, 3,695,830.
 Mitsui, Tsuneo; Nakayama, Keizo; Kobayashi, Tetsuo; and Okuda, Kenzo, to Tokyo Electric Power Co., Inc. The and Hitachi, Ltd. Interconnecting apparatus with impedance insertion means for electric power systems, 3,657,728, 4-18-72, Cl. 307-20.
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 Mitsui, Tsutomu: *See—*
 Sakashita, Hitoshi; and Mitsui, Tsutomu, 3,695,198.
 Mitsui, Yukio; Matsuura, Masanori; and Kuroda, Toshimasa, to Teijin Limited. Drawing and heat treatments of polyester filaments, 3,651,198, 3-21-72, Cl. 264-235.
 Mitsukawa, Konosuke; Hattori, Hiroshi; Hikoda, Toyohiko; and Masubuchi, Yoshinori, to Toyo Rayon Kabushiki Kaisha. Process for production of vapor permeable sheet-like materials, 3,669,792, 6-13-72, Cl. 156-249.000.
 Mitsumi Electric Company, Limited: *See—*
 Endow, Kunio, 3,643,043.
 Miyata, Takeo; and Miura, Tsutomu, 3,639,858.
 Omichi, Hiromu; and Kobayashi, Norio, 3,654,159.
 Mitsumi Seiko Kabushiki Kaisha: *See—*
 Endou, Kunio, 3,632,911.
 Mitsuoka, Takeshi: *See—*
 Okada, Tsuneo; Onodera, Yutaka; Mitsuoka, Takeshi; Saito, Yukinori; Muto, Yoshio; Anayama, Takeshi; and Yasukochi, Ko, 3,691,046.
 Mitsuoka, Hirotosugu: *See—*
 Tadenuma, Hachiro; Murakami, Torajiro; and Mitsuoka, Hirotosugu, 3,655,771.
 Mitsuoka Electric Industrial Co., Ltd.: *See—*
 Haagensen, Duane B., 3,651,300.
 Mitsuta, Yutaka: *See—*
 Kadowaki, Takashi; Iwasaki, Takao; Mitsuta, Yutaka; and Shimada, Kenji, 3,691,143.
 Mitsuyama, Masaru; and Morita, Shigeru, to Toyo Kogyo Co., Ltd. Surging prevention device for use in vehicle having multicylinder spark-ignition internal combustion engine, 3,698,371, 10-17-72, Cl. 123-198.00f.
 Mittag, Hermann; and Issler, Jorg, to Bosch, Robert, G.m.b.H. Ignition arrangement for internal combustion engines, 3,640,260, 2-8-72, Cl. 123-148.
 Mittan Company Limited: *See—*
 Kobayashi, Tetsuo, 3,676,877.
 Mittelstadt, Robert A. Releasable binding mechanism for skis, 3,671,054, 6-20-72, Cl. 280-11.35m.
 Mittelstaedt, Georg S. Peripheral suction openings in gas turbine engines, 3,645,096, 2-29-72, Cl. 60-39.66.
 Mittelstaedt, Georg S. Inlets of centrifugal compressors, blowers and pumps, 3,692,420, 9-19-72, Cl. 415-62.000.
 Mittelstaedt, Glen L.: *See—*
 Herter, George L.; and Mittelstaedt, Glen L., 3,678,858.
 Mitten, Leonard A.; and Chapman, Robert E., to Hawker Siddeley Canada Ltd. Deflection clamp, 3,680,611, 8-1-72, Cl. 144-162.000.
 Mitten, Robert W.: *See—*
 Magner, Philip G., Jr.; and Mitten, Robert W., 3,644,696.
 Mittler, Martin A.: *See—*
 Newman, Richard J.; Mittler, Martin A.; and Blickstein, Martin J., 3,679,940.
 Mittler, Werner: *See—*
 Sennewald, Kurt; Ohorodnik, Alexander; Hundenck, Joachim; Mittler, Werner; Vierling, Hermann; and Opitz, Wolfgang, 3,660,306.
 Wirtz, Peter; Jacobowsky, Armin; Mittler, Werner; and Gerhardt, Wilfried, 3,696,015.
 Mittmeyer, Ingmar: *See—*
 Crafton, Paul A.; and Mittmeyer, Ingmar, 3,693,155.
 Mitnacht, Hans; and Priebe, Edmund. Impact resistant thermoplastic composition, 3,691,260, 9-12-72, Cl. 260-876.00r.
 Mitto Rohri Company Limited, mesne: *See—*
 Cameron, William M., 3,684,411.
 Miura, Ataka, to Janome Sewing Machine Co., Ltd. System for stopping a single phase wound commutator motor at a fixed position, 3,654,536, 4-4-72, Cl. 318-466.
 Miura, Chikatoshi: *See—*
 Toda, Kazuo; Murai, Tosuke; Miura, Chikatoshi; and Tanura, Yuichi, 3,694,196.
 Miura, Haruhisa: *See—*
 Matsushita, Shigenori; Sato, Fumitaka; and Miura, Haruhisa, 3,696,340.
 Miura Kazuchika: *See—*
 Kadokura, Sadao; and Miura Kazuchika, 3,681,670.
 Miura, Kazuo; Sekigawa, Shichitaro; Nishizawa, Kyosaku; and Nishimura, Kazuo, to Nippon Soda Co., Ltd. Process for the production of hydroxypropyl cellulose, 3,652,539, 3-28-72, Cl. 260-231.
 Miura, Masanobu: *See—*

Ide, Fumio; and Miura, Masanobu, 3,651,175.
 Miura, Masatsugu: *See—*
 Nagano, Akira; Ninomiya, Nobukata; and Miura, Masatsugu, 3,683,370.
 Miura, Mitsugi. Apparatus for purification of gas. 3,651,619, 3-28-72, Cl. 55-237.
 Miura, Mitsugi. Apparatus for the removal of filter cake by liquid injection. 3,687,292, 8-29-72, Cl. 210-225.000.
 Miura, Satoshi: *See—*
 Nishiyama, Shigeru; Kusano, Hiroshi; Nagai, Yoshiro; and Miura, Satoshi, 3,706,615.
 Miura, Takahiro; and Yamamoto, Miaki, to Kabushikikaisha Tokyo Keiki Seizosho. Measuring instrument for piloting ship for docking or leaving. 3,673,553, 6-27-72, Cl. 340-3.00r.
 Miura, Taro: *See—*
 Mayama, Takeshi; Miura, Taro; and Saito, Kazuo, 3,637,741.
 Miura, Tsutomu: *See—*
 Miyata, Takeo; and Miura, Tsutomu, 3,639,858.
 Miura, Yasushi; Kashiwagi, Nobuo; and Mochizuki, Zenichi, to Toshiba Kikai Kabushiki Kaisha. Apparatus for die casting ferrous metals. 3,672,440, 6-27-72, Cl. 164-312.000.
 Miura, Yoshihiro: *See—*
 Fukuta, Kenji; and Miura, Yoshihiro, 3,688,487.
 Miura, Yotaro: *See—*
 Inaga, Katsu; and Miura, Yotaro, 3,688,055.
 Inaga, Katsu; and Miura, Yotaro, 3,702,383.
 Kihara, Nobutoshi; and Miura, Yotaro, 3,689,007.
 Miura, Yotaro; and Ito, Makoto, to Sony Corporation. Magnetic tape unloading mechanisms for use with a tape record playback mechanism. 3,678,214, 7-18-72, Cl. 179-100.20t.
 Miura, Yotaro; and Asami, Shojiro, to Sony Corporation. Tape recorder with pivotally mounted cassette loading plate having rotatable tape guiding fingers. 3,688,059, 8-29-72, Cl. 179-100.200.
 Miura-Gun, Kanagawa-Ken: *See—*
 Ito, Akihiko; Yoshida, Masaru; Nakase, Yoshiaki; Iwai, Tadashi; Miura-Gun, Kanagawa-Ken; Hayashi, Koichiro; and Okamura, Seizo, 3,684,767.
 Miwa, Akihiro, to Kabushiki Kaisha Daini Seikosha. Digital display world clock. 3,653,204, 4-4-72, Cl. 58-42.5.
 Miwa, Ichiro: *See—*
 Tauchi, Shoji; Miwa, Ichiro; and Homma, Makoto, 3,707,410.
 Miwa, Keiji, to Sanyo Electric Works Ltd. Flux for aluminum soldering. 3,655,461, 4-11-72, Cl. 148-23.
 Miwa, Takashi: *See—*
 Fujii, Shigeru; Miwa, Takashi; Noji, Kazushige; Okagawa, Chikatsu; and Toki, Masamichi, 3,645,819.
 Mix, Renard E., to General Motors Corporation. Casting plate straps to battery plates. 3,652,337, 3-28-72, Cl. 136-134.
 Mix-Mill, Inc., mesne: *See—*
 Skelton, Robert F.; and Truax, Harry, 3,680,472.
 Mixell, Ronald G.; and Cerny, Daryl D., to Ball Corporation. Apparatus for forming and curing continuous elastomeric strip. 3,659,987, 5-2-72, Cl. 425-97.
 Mixon, Forest O.: *See—*
 Orcutt, John C.; and Mixon, Forest O., 3,671,426.
 Mixon, George A., to Mol-Pak Corporation. Frozen meat package. 3,671,272, 6-20-72, Cl. 99-194.000.
 Miyabe, Hideyuki: *See—*
 Higuchi, Toshio; Miyabe, Hideyuki; and Hiramatsu, Takao, 3,650,160.
 Miyabe, Shuichi: *See—*
 Kubo, Keishi; Sakai, Kiyoshi; and Miyabe, Shuichi, 3,661,678.
 Miyabe, Yoshio: *See—*
 Yoshiyasu, Mitsuo; Saito, Sadao; and Miyabe, Yoshio, 3,660,141.
 Miyachi, Hideziro, to Miyachi Iron Works Ltd. Multi-storied garage. 3,680,718, 8-1-72, Cl. 214-16.1cc.
 Miyachi Iron Works Ltd.: *See—*
 Miyachi, Hideziro, 3,680,718.
 Miyachi, Kiyochi; Hashino, Shinsuke; and Hongu, Tomokazu, to Hiroshima Kasei, Ltd. Sandal. 3,675,346, 7-11-72, Cl. 36-11.500.
 Miyadera, Tetsuo: *See—*
 Tachikawa, Ryuji; Takagi, Hiromu; Kamioka, Toshiharu; Fukunaga, Mitsunobu; Kawano, Yoichi; and Miyadera, Tetsuo, 3,696,094.
 Miyadera, Yasuo; Masuko, Tatu; Muroi, Tadashi; Okada, Shinichi; and Noguchi, Hiroshi, to Hitachi, Ltd., Hitachi Chemical Company, Ltd. and Hitachi Cable, Ltd. Method for preparing heterocyclic polymer from diamino-diamido compounds and polycarboxylic acid derivatives. 3,639,342, 2-1-72, Cl. 260-47.
 Miyagawa, Fumihiro, to Kabushiki Kaisha Ricoh. Camera having built-in socket for flashcubes or other flash apparatus. 3,650,190, 3-21-72, Cl. 95-11.
 Miyagawa, Fumihiro, to Ricoh Co., Ltd. Shutter release time preliminary indication device for a photographic camera having a built-in self-timer. 3,667,367, 6-6-72, Cl. 95-53.300.
 Miyagawa, Fumihiro, to Kabushiki Kaisha Ricoh. Automatic focus control device for photographic cameras. 3,683,777, 8-15-72, Cl. 95-44.00r.
 Miyagawa, Fumihiro: *See—*
 Ando, Sadanao; and Miyagawa, Fumihiro, 3,638,609.

Miyagawa, Takashi: *See—*
 Yokota, Yoshiyuki; Miyagawa, Takashi; Tanaka, Yasuto; and Torii, Tatsu, 3,690,929.
 Miyagawa, Takashi; Matsuo, Shunsuke; and Matsumoto, Masanori, to Omron Tateisi Electronics Co. Electrical counter. 3,665,166, 5-23-72, Cl. 235-92.
 Miyagawa, Yoshiaki: *See—*
 Umeda, Shinobu; Miyagawa, Yoshiaki; Tanaka, Yutaka; Tanaka, Yukio; and Nakamura, Ryoji, 3,703,818.
 Miyahara, Akimitsu; Fujita, Minoru; Yamamoto, Isao; and Katamura, Tamako, to Rohm & Haas Company. Process for deionizing water. 3,661,775, 5-9-72, Cl. 210-37.
 Miyahara, Haruo: *See—*
 Kobayashi, Makoto; and Miyahara, Haruo, 3,644,701.
 Miyahara, Hideaki; Kawai, Tamiyosi; and Takatsuki, Michio, to Kabushiki Kaisha Hokusan. Shower device provided with water heaters. 3,651,523, 3-28-72, Cl. 4-145.
 Miyai, Masaya, to Aisin Seiki Kabushiki Kaisha. Tandem master cylinder. 3,698,190, 10-17-72, Cl. 60-54.60c.
 Miyai, Yukio: *See—*
 Mizuno, Hiroyuki; Nakashima, Shinichi; and Miyai, Yukio, 3,701,050.
 Teramoto, Iwao; Iwasa, Hitoo; Miyai, Yukio; and Takeshima, Masumi, 3,675,161.
 Miyakado, Satoru: *See—*
 Sugawara, Tsunenori; Shibuya, Teiji; Miyakado, Satoru; and Mase, Jiro, 3,695,466.
 Miyakawa, Seiichi: *See—*
 Furuichi, Masayoshi; Miyakawa, Seiichi; and Masuda, Nobuchika, 3,656,021.
 Miyakawa, Seinan, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera controls. 3,695,157, 10-3-72, Cl. 95-10.0ct.
 Miyakawa, Tadahito; and Nagai, Kazuko, Process for coloring anodic coatings on aluminum and aluminum alloys with metal salts. 3,661,729, 5-9-72, Cl. 204-35.
 Miyakawa, Takashi; Kurita, Tomio; and Ichimura, Akira, to Nippon Telegraph and Telephone Public Corporation and Nippon Electric Company Limited. Centralized message assembler. 3,643,224, 2-15-72, Cl. 340-172.5.
 Miyakawa, Tsuneaki: *See—*
 Ayukawa, Yaichi; Naruse, Uhei; Itoh, Tadayoshi; and Miyakawa, Tsuneaki, 3,671,261.
 Miyake, Akihisa: *See—*
 Takahashi, Kuniyuki; Hata, Go; and Miyake, Akihisa, 3,676,470.
 Miyake, Akio: *See—*
 Imai, Yoshio; Matsumura, Haruki; Yurugi, Shojiro; and Miyake, Akio, 3,697,530.
 Miyake, Akira: *See—*
 Matsuoka, Toshiro; Takeda, Keinosuke; Goto, Minoru; and Miyake, Akira, 3,697,647.
 Nakazawa, Koiti; Shibata, Motoo; Higashide, Eiji; Kanzaki, Toshihiko; Yamamoto, Hiroichi; Miyake, Akira; Ueyanagi, Jisaburo; and Iwasaki, Hidesuke, 3,655,879.
 Shibata, Motoo; Yamamoto, Hiroichi; Higashide, Eiji; Mizuno, Komci; Imanishi, Mashiko; and Miyake, Akira, 3,678,161.
 Miyake, Akira; Horii, Stosh; and Ueyanagi, Jisaburo, to Takeda Chemical Industries, Ltd. Hydroxyethane sulfonic acid derivative of enduracidin reduction product. 3,678,160, 7-18-72, Cl. 424-117.000.
 Miyake, Akira; Iwasaki, Hidesuke; and Naito, Kenzo, to Takeda Chemical Industries, Ltd. Enduracidin derivatives. 3,694,548, 9-26-72, Cl. 724-118.000.
 Miyake, Hirotaka: *See—*
 Kawabe, Tsuneo; Miyake, Hirotaka; and Ban, Masasi, 3,650,569.
 Kawabe, Tsuneo; Suzuki, Kouichi; and Miyake, Hirotaka, 3,689,121.
 Miyake, Kenji, to Citizen Watch Co., Ltd. Numeral pin setting mechanism in calculating machines and the like apparatus. 3,638,855, 2-1-72, Cl. 235-60.
 Miyake, Shigenobu, to Chuo Tatemono Co., Ltd. Method for directly electrochemically extracting gallium from a circulating aluminate solution in the Bayer process by eliminating impurities. 3,677,918, 7-18-72, Cl. 204-105.00r.
 Miyake, Tetsuya: *See—*
 Seko, Maomi; Yomiyama, Akira; Miyake, Tetsuya; Nakagawa, Koji; Yoshida, Munee; and Inada, Koji, 3,657,099.
 Seko, Maomi; Yomiyama, Akira; Miyake, Tetsuya; and Iwashita, Hidemaro, 3,673,068.
 Seko, Maomi; Yomiyama, Akira; Ogawa, Shinsaku; Miyake, Tetsuya; Isaya, Toshiro; and Nakagawa, Koji, 3,682,793.
 Miyake, Toshio: *See—*
 Sakai, Shuzo; Miyake, Toshio; and Sato, Yoshinari, 3,691,013.
 Miyake, Yasuhiko: *See—*
 Tanaka, Eiichiro; Fukuda, Takeji; Yamaji, Kenkichi; Miyake, Yasuhiko; Ota, Hiroshi; and Kimura, Katsuo, 3,646,796.
 Miyake, Yasuhiko; Takayanagi, Eifu; Narita, Shigeo; Shin, Masaaki; Hayashi, Roshio; and Sakurai, Koichi, to Mitsui Toatsu Chemicals, Incorporated. Method of modifying fibrous materials. 3,676,053, 7-11-72, Cl. 8-116.000.

Kondo, Asaji; Fujisaki, Hiroshi; Miyano, Shizuo; and Yazawa, Kenichiro, 3,701,663.
 Miyano, Shizuo; Kido, Keishiro; Kondo, Asaji; and Mizuki, Eiichi, to Fuji Photo Film Co., Ltd. Image-receiving material for transfer images. 3,706,593, 12-19-72, Cl. 117-127.000.
 Miyano, Isao: *See—*
 Otsuki, Susumu; and Miyano, Isao, 3,666,794.
 Otsuki, Susumu; Hori, Kyoichi; and Miyano, Isao, 3,674,651.
 Miyao, Hachiro: *See—*
 Kuwabara, Takeo; Morimoto, Kazumi; and Miyao, Hachiro, 3,648,212.
 Miyao, Shinichi: *See—*
 Sakai, Makoto; and Miyao, Shinichi, 3,662,075.
 Miyao, Takayuki: *See—*
 Kobayashi, Akira; and Miyao, Takayuki, 3,657,970.
 Miyaoka, Senri: *See—*
 Yoshida, Susumu; Ohgoshi, Akio; Miyaoka, Senri; and Katagiri, Yoshiharu, 3,678,318.
 Miyaoka, Senri, to Sony Corporation. Abberation correction of plurality of beams in color cathode ray tube. 3,651,359, 3-21-72, Cl. 313-70.
 Miyaoka, Senri, to Sony Corporation. Cathode ray tube. 3,652,896, 3-28-72, Cl. 315-31.
 Miyaoka, Senri, to Sony Corporation. Cathode ray tube. 3,678,329, 7-18-72, Cl. 315-13.00r.
 Miyaoka, Senri, to Sony Corporation. Cathode ray tube with plural beams for each color element. 3,696,261, 10-3-72, Cl. 313-69.00c.
 Miyasaka, Kaneyoshi: *See—*
 Takeyama, Hidehiko; Miyasaka, Kaneyoshi; and Miyazawa, Shinichi, 3,660,950.
 Miyasaka, Kazuo. Concentrated sulfuric acid-dye solution dyeing. 3,652,200, 3-28-72, Cl. 8-54.
 Miyasaka, Kenji, to Citizen Watch Co., Ltd. Positioner for calendar dial in timepiece. 3,659,412, 5-2-72, Cl. 58-4.
 Miyasaka, Kiroku, to Okaya Denki Sangyo Kabushikikaisha. Indicator tube utilizing a plurality of discharge states. 3,634,850, 1-11-72, Cl. 340-343.
 Miyasaka, Mamoru, to Kabushiki Kaisha Suwa Seikosha. Jumper member construction in a calendar watch. 3,668,863, 6-13-72, Cl. 58-58.000.
 Miyasaka, Mamoru, to Kabushiki Kaisha Suwa Seikosha. Calendar watch setting stem with displaceable spring biased gear. 3,668,864, 6-13-72, Cl. 58-58.000.
 Miyasaka, Mamoru, to Kabushiki Kaisha Suwa Seikosha. Break prevention device for calendar advancing of a calendar watch. 3,672,156, 6-27-72, Cl. 58-58.000.
 Miyasaka, Mamoru; Kurita, Hirohisa; and Furihata, Hideo, to Kabushiki Kaisha Suwa Seikosha. Structure for positioning a watch stem. 3,678,682, 7-25-72, Cl. 58-58.000.
 Miyasaka, Takao, to Victor Company of Japan Limited. Direct current motor commutation system responsive to C.E.M.F. 3,663,878, 5-16-72, Cl. 318-254.000.
 Miyasaka, Tooru: *See—*
 Goshima, Takeshi; and Miyasaka, Tooru, 3,703,129.
 Miyasaka, Tsugumitsu: *See—*
 Yamamura, Katsumi; Miyasaka, Tsugumitsu; Hayashi, Shinichi; Yamamoto, Masao; and Matsubara, Yukio, 3,677,909.
 Miyashiro, James: *See—*
 Venerable, James T.; Miyashiro, James; and Seiling, Alfred W., 3,647,849.
 Miyashiro, Shoichi; Shirouzu, Shunji; and Iwasawa, Mineo, to Tokyo Shibaura Electric Co., Ltd. Image pickup tube device utilizing a magnetic field generator to reverse the leakage field. 3,659,140, 4-25-72, Cl. 315-10.000.
 Miyashiro, Shoichi, to Tokyo Shibaura Electric Co., Ltd. Photosensitive semiconductor device. 3,668,473, 6-6-72, Cl. 317-234.00r.
 Miyashiro, Shoichi; Shirouzu, Shunji; and Tsuji, Shigeo, to Tokyo Shibaura Electric Co., Ltd. Image pickup tube semiconductor target support structure. 3,702,410, 11-7-72, Cl. 313-66.000.
 Miyashiro, Yutaka: *See—*
 Morita, Katsura; Hashimoto, Naoto; Morimoto, Shiro; Ando, Yasuo; and Miyashiro, Yutaka, 3,634,488.
 Miyashita, Akitoshi: *See—*
 Oka, Shunzo; and Miyashita, Akitoshi, 3,699,493.
 Miyashita, Kanji, to Kabushiki Kaisha Suwa Seikosha. Non-circular waterproof watchcase. 3,696,608, 10-10-72, Cl. 58-90.00r.
 Miyashita, Keiji. Simple spectrometer. 3,677,649, 7-18-72, Cl. 356-74.000.
 Miyashita, Meiji: *See—*
 Takaku, Tetsuo; and Miyashita, Meiji, 3,638,146.
 Miyashita, Takao: *See—*
 Isogai, Tokio; Isikawa, Eiichi; Yuza, Hisashi; Tahara, Takasi; Miyashita, Takao; and Ikemoto, Norio, 3,654,543.
 Miyashita, Takeo: *See—*
 Ohyama, Takashi; Kawashige, Akira; and Miyashita, Takeo, 3,697,991.
 Miyashita, Yoshio; Nishikawa, Katuhiko; and Sata, Toshio, to Nippon Kokan Kabushiki Kaisha. Free cutting steel containing small amounts of aluminum and calcium. 3,647,425, 3-7-72, Cl. 75-124.

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Takamatsu, Hideaki; Miyata, Akira; and Toyabe, Yutaka, 3,660,052.
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- Miyata, Itaru: *See*—
Kitamura, Toshinori; Ajichi, Yoshio; Miyata, Itaru; and Ono, Masayoshi, 3,683,244.
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Donohue, James P.; Bange, Donald A.; and Miyata, John J., 3,653,011.
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- Miyata, Kouichi: *See*—
Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Tsubaki, Keisuke, 3,652,399.
- Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Tsubaki, Keisuke, 3,655,570.
- Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Kodama, Reiji, 3,691,014.
- Miyata, Takamitsu: *See*—
Urushiyama, Nobuo; Yoshio, Minoru; and Miyata, Takamitsu, 3,653,984.
- Miyata, Takeo; and Miura, Tsutomu, to Mitsumi Electric Company, Limited. Transistor impedance converter and oscillator circuits. 3,639,858, 2-1-72, Cl. 331-108.
- Miyata, Yasuo: *See*—
Nakamura, Naoya; and Miyata, Yasuo, 3,674,763.
- Miyata, Yoshihiko: *See*—
Takemoto, Takeo; Miyata, Yoshihiko; and Kawamura, Takao, 3,647,960.
- Uchida, Atsuyoshi; and Miyata, Yoshihiko, 3,670,376.
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- Miyatake, Haruo: *See*—
Sato, Tetsuya; Miyatake, Haruo; and Kato, Osamu, 3,631,718.
- Miyatani, Kazuo: *See*—
Okamoto, Fumio; Wada, Yasuo; and Miyatani, Kazuo, 3,679,379.
- Miyati, Toshiko: *See*—
Egawa, Susumu; Ashizaki, Shigeya; Shimizu, Katsumi; and Miyati, Toshiko, 3,700,954.
- Miyato, Akira; Ohkubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, to Nippon Kokan Kabushiki Kaisha. Method of electroplating readily oxidizable metals. 3,699,013, 10-17-72, Cl. 204-32.00r.
- Miyatsuka, Hajime: *See*—
Honjo, Satoru; Taguchi, Seiichi; Takimoto, Masaaki; and Miyatsuka, Hajime, 3,707,392.
- Miyatuka, Hajime: *See*—
Tamai, Yasuo; Takimoto, Masaaki; and Miyatuka, Hajime, 3,661,572.
- Miyauchi, Hirokazu; and Wakabayashi, Yasuo, to Sumitomo Electric Industries, Ltd. Apparatus for crosslinking in curable rubber or plastic electric wire and cable. 3,635,621, 1-18-72, Cl. 425-113.
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- Miyauchi, Kango: *See*—
Abe, Jinnosuke; Watanabe, Tetsuo; Miyauchi, Kango; Yamaguchi, Tsutomu; Nito, Toshiharu; and Muroya, Noriyuki, 3,649,455.
- Miyauchi, Rinichi: *See*—
Yamanaka, Takashi; Miyauchi, Rinichi; Fujita, Hisaya; and Kaieda, Nobuo, 3,704,415.
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Kishikawa, Hiroshi; Ishikawa, Shintaro; and Miyawaki, Kenji, 3,657,163.
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Sawada, Hiroyuki; Miyawaki, Saburo; and Ishikawa, Hajime, 3,671,359.
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Mouri, Katsuo; Miyazaki, Gentaro; and Nabeyama, Hiroaki, 3,691,475.
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Yoshida, Zenzo; Miyazaki, Hiroshi; Yoshida, Tokuji; and Kobayashi, Hiroaki, 3,635,007.
- Miyazaki, Hirotoshi: *See*—
Okaya, Takuji; and Miyazaki, Hirotoshi, 3,647,756.
- Okaya, Takuji; Miyazaki, Hirotoshi; and Eguchi, Tamotsu, 3,656,884.
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Ishii, Keiichiro; Ueyama, Michio; Miyazaki, Koshin; and Noto, Tetsuo, 3,677,777.
- Miyazaki, Kouichi: *See*—
Kamei, Taketo; and Miyazaki, Kouichi, 3,681,639.
- Miyazaki, Masatoshi: *See*—
Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,638,187.
- Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,671,936.
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- Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,671,941.
- Miyazaki, Masayuki: *See*—
Okamoto, Kiyokazu; and Miyazaki, Masayuki, 3,634,667.
- Miyazaki, Michihiko: *See*—
Fujimura, Hajime; Tanaka, Tadasu; Iijima, Ikuo; Miyazaki, Michihiko; and Masaki, Masao, 3,642,802.
- Fujimura, Hajime; Tanaka, Tadasu; Wagatsuma, Mitsuyoshi; Iwakuma, Takeo; and Miyazaki, Michihiko, 3,649,634.
- Miyazaki, Mitsumasa: *See*—
Honda, Kiyoshi; Miyazaki, Mitsumasa; Nomura, Shozaburo; Akiyama, Kazuo; and Hirose, Kazutoyo, 3,694,415.
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Ueno, Ryuzo; Miyazaki, Tetsuya; and Inamine, Shigeo, 3,692,534.
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Takagi, Takeshi; Kawamoto, Tamio; and Miyazaki, Toshio, 3,677,381.
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Amano, Hiroyuki; Tsuji, Nobuo; Miyazako, Takushi; Shirasu, Kazuo; and Tutiya, Yosinori, 3,650,752.
- Shiba, Keisuke; Hinata, Masanao; Tsuji, Nobuo; Miyazako, Takushi; and Sato, Akira, 3,650,762.
- Tsuji, Nobuo; Tajima, Tatsuya; Miyazako, Takushi; Tsuchiya, Yoshinori; and Nishio, Fumihiko, 3,666,470.
- Yasuda, Yukio; Tsuji, Nobuo; and Miyazako, Takushi, 3,655,389.
- Miyazato, Yoshinobu: *See*—
Noguchi, Hikoji; and Miyazato, Yoshinobu, 3,668,048.
- Miyazawa, Kokichi: *See*—
Yamada, Shigeki; Miyazawa, Kokichi; Naka, Hideaki; and Yoshida, Yoshio, 3,660,078.
- Miyazawa, Shinichi: *See*—
Takeyama, Hidehiko; Miyasaka, Kaneyoshi; and Miyazawa, Shinichi, 3,660,950.
- Miyazawa, Shintaro: *See*—
Uchida, Naoya; Ohmachi, Yoshiro; Niizeki, Nobukazu; Miyazawa, Shintaro; and Iwasaki, Hiroshi, 3,671,103.
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- Miyazawa, Yasuo: *See*—
Ito, Masatomo; Miyazawa, Yasuo; and Gotoh, Tsuneo, 3,634,316.
- Miyazuka, Hajime: *See*—
Sato, Masamichi; Fukushima, Osamu; Miyazuka, Hajime; Takimoto, Masaaki; Matsumoto, Seiji; Tamai, Yasuo; and Honjo, Satoru, 3,685,907.
- Tamai, Yasuo; and Miyazuka, Hajime, 3,674,476.

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Ito, Kenkichi; Mizoguchi, Naomasa; Dazai, Miyoji; and Sato, Osahiro, 3,646,082.
- Mizoguchi, Ryuichi: *See*—
Saita, Shigeo, 3,660,939.
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- Mizoguchi, Tomishige: *See*—
Yamamura, Yuichi; Kokubu, Tatsuo; Shigezane, Keisuke; and Mizoguchi, Tomishige, 3,700,651.
- Mizoguchi, Yoshiyuki: *See*—
Izawa, Shin-ichi; Nakamura, Katsuyuki; and Mizoguchi, Yoshiyuki, 3,670,033.
- Nakamura, Katsuyuki; Tanabe, Masanori; Mizoguchi, Yoshiyuki; and Fukuda, Hirohisa, 3,636,174.
- Mizote, Masanori: *See*—
Irie, Namio; and Mizote, Masanori, 3,703,109.
- Mizugaki, Yoshikazu: *See*—
Ikuo, Yorio; Okabayashi, Minoru; Ono, Keisuke; Mizugaki, Yoshikazu; and Hayashi, Juntaro, 3,674,129.
- Mizuguchi, Mamoru: *See*—
Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar, Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.
- Mizuguchi, Ryuzo: *See*—
Nagata, Nobuyoshi; and Mizuguchi, Ryuzo, 3,697,619.
- Mizuguchi, Shunji: *See*—
Okamoto, Miyoshi; Mizuguchi, Shunji; and Watanabe, Koji, 3,705,226.
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Furuta, Taizo; Otsuka, Yuichi; and Mizukawa, Kiyoshi, 3,642,137.
- Mizukawa, Ziyun: *See*—
Miyake, Yuji; Kashiara, Hideo; Takahashi, Kazuyoshi; Yamamoto, Takamitsu; and Mizukawa, Ziyun, 3,653,189.
- Mizuki, Eiichi: *See*—
Miyano, Shizuo; Kido, Keishiro; Kondo, Asaji; and Mizuki, Eiichi, 3,706,593.
- Mizuki, Eiichi; Oishi, Yasushi; and Sawahara, Masao, to Fuji Photo Film Co., Ltd. Color photographic light-sensitive element containing magenta coupler and alkyl phosphate solvent. 3,676,137, 7-11-72, Cl. 96-56.500.
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Fukushima, Takaaki; Takizawa, Haruki; Hori, Kikuo; Sato, Yoshito; and Mizumori, Haruhiko, 3,671,623.
- Mizuno, Aiko: *See*—
Takata, Toyoharu; Fujii, Keisuke; Yano, Nobumitsu; Fukushima, Masao; Nagayoshi, Fumio; and Mizuno, Aiko, 3,692,768.
- Mizuno, Akinori: *See*—
Machida, Hazime; Tsurugi, Akira; Okuno, Zenjiro; and Mizuno, Akinori, 3,657,130.
- Okuno, Zenjiro; Mizuno, Akinori; and Kondoh, Ikuyo, 3,640,863.
- Okuno, Zenjiro; and Mizuno, Akinori, 3,681,243.
- Mizuno, Hideaki: *See*—
Takayanagi, Kenjiro; Matsuyama, Kihachiro; Fujiwara, Tadashi; Mizuno, Hideaki; and Akiyama, Naoki, 3,692,576.
- Mizuno, Hiroshi: *See*—
Ohshima, Haruhiko; Mizuno, Hiroshi; Konno, Akira; and Kosaka, Tomoaki, 3,641,270.
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- Mizuno, Katsumi: *See*—
Kaneko, Tamaki; and Mizuno, Katsumi, 3,685,444.
- Kaneko, Tamaki; and Mizuno, Katsumi, 3,702,586.
- Mizuno, Koichi, 1/2 to Taiho Kogyo Co., Ltd. Oil-free slider bearing material and method of making the material. 3,647,500, 3-7-72, Cl. 117-21.
- Mizuno, Komei: *See*—
Higashide, Eiji; Hasegawa, Toru; Shibata, Motoo; and Mizuno, Komei, 3,655,878.
- Higashide, Eiji; Hasegawa, Toru; Shibata, Motoo; Kishi, Toyokazu; Harada, Setsuo; and Mizuno, Komei, 3,660,567.
- Shibata, Motoo; Yamamoto, Hiroichi; Higashide, Eiji; Mizuno, Komei; Imanishi, Mashiko; and Miyake, Akira, 3,678,161.
- Yamamoto, Hiroichi; Suzuki, Takashi; Higashide, Eiji; Fugono, Takeshi; and Mizuno, Komei, 3,676,300.
- Mizuno, Masao; and Igi, Keishiro, to Kuraray Co., Ltd. Polyester-polyoxyalkylene sulfonate compositions. 3,700,642, 10-24-72, Cl. 260-755.000.
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- Mizuno, Nobuo: *See*—
Goi, Mitsuhiro; Kageyama, Satoru; and Mizuno, Nobuo, 3,634,349.
- Mizuno, Osamu: *See*—
Maruyama, Mitsuhiro; Mizuno, Osamu; and Kikuchi, Sadao, 3,663,320.
- Mizuno, Sakuhiro: *See*—
Nomura, Fumio; Takamiya, Yutaka; Mizuno, Sakuhiro; Higashi, Kunio; and Shimamoto, Toshihiro, 3,703,698.
- Mizuno, Shuzo, to Sanko Engineering Company, Limited. Water sprinkling system. 3,667,498, 6-6-72, Cl. 137-119.000.
- Mizuno, Suet: *See*—
Takase, Tadayoshi; and Mizuno, Suet, 3,704,703.
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Kisaki, Hisashi; Mabuchi, Shunsuke; and Mizuno, Toshikatsu, 3,694,465.
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- Mizusasa, Susumu: *See*—
Usuda, Shogo; Mizusasa, Susumu; and Tateno, Harunobu, 3,701,857.
- Mizusawa, Frank S.: *See*—
Carroll, William J.; and Mizusawa, Frank S., 3,640,234.
- Mizusawa Kagaku Kogyo Kabushiki Kaisha: *See*—
Sugahara, Yujiro; Naito, Hiroyuki; Takai, Kiyoshi; and Usui, Kouichi, 3,650,681.
- Mizusawa, Shigeru: *See*—
Shinoda, Kiyonori; Watanabe, Tadayoshi; and Mizusawa, Shigeru, 3,697,443.
- Mizushima, Kyohei; and Yada, Yukio, to Mitsubishi Rayon Co., Ltd. Method of producing a synthetic resin box with double wall structure. 3,688,384, 9-5-72, Cl. 29-455.000.
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Morita, Ken-ichi; Mizushima, Toshio; Kitagawa, Hideji; and Sakai, Hiroshi, 3,632,798.
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- Tateisi, Kazuma; Mizuta, Yukio; and Shizuya, Kyoto, 3,648,020.
- Mizutani, Hiroshi: *See—*
- Chiba, Matsubei; Kito, Kiyoharu; Mizutani, Hiroshi; and Kachi, Masayasu, 3,659,438.
- Mizutani, Katsushi, to Kabushiki Kaisha Rinnai Seisakusho. Radiant burner. 3,695,818, 10-3-72, Cl. 431-328,000.
- Mizutani, Kazunori: *See—*
- Yoshihara, Mitsuo; and Mizutani, Kazunori, 3,671,592.
- Mizutani, Masayoshi: *See—*
- Komatsu, Noboru; Arai, Tohru; and Mizutani, Masayoshi, 3,671,297.
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- Itaya, Nobushige; Kamoshita, Katsuzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Nakai, Shinji; Kameda, Nobuyuki; Fujimoto, Keimei; and Okuno, Yositosi, 3,666,789.
- Itaya, Nobushige; Kamoshita, Katsuzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Nakai, Shinji; Kameda, Nobuyuki; Fujimoto, Keimei; and Okuno, Yositosi, 3,669,989.
- Itaya, Nobushige; Mizutani, Toshio; Kitamura, Shigeyoshi; Okuno, Yositosi; and Fujimoto, Keimei, 3,671,548.
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- Mull, Robert Paul; and Mizzoni, Renat Herbert, 3,634,432.
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- Mizzy Inc.: *See—*
- Reasenber, Julian R.; and Drucker, Rubin, 3,702,865.
- MKC Electronics Corporation: *See—*
- Mathews, Victor M., Jr.; Nelson, Richard P.; and Lally, Eugene Brooks, 3,642,046.
- MKT-Tehtaat Oy: *See—*
- Kataja, Vaino, 3,651,575.
- Mlacak, John George: *See—*
- Bhatt, Jayantkumar; Mlacak, John George; and Winlow, Thomas Arthur, 3,662,117.
- Mlavsky, Abraham I.: *See—*
- Labelle, Harold E., Jr.; and Mlavsky, Abraham I., 3,650,703.
- Mlot-Fijalkowski, Adolf, to Magnaflux Corporation. Self-emulsifiable penetrant composition. 3,647,705, 3-7-72, Cl. 252-301.2.
- Mlynar, Lubomir: *See—*
- McNamee, Raymond W.; Mlynar, Lubomir; and Schachat, Norman, 3,671,472.
- MM&W, Inc.: *See—*
- Morgan, Charles W., 3,663,039.
- MMM Munchener Medizin Mechanik GmbH: *See—*
- Koller, Johann, 3,694,830.
- Mo Clamp Co. Ltd.: *See—*
- Mojelski, William, 3,696,653.
- Mo och Aktiebolag Ornskoldsvik: *See—*
- Weibull, Bengt J. G.; Thorsell, Leif Urban Folke; and Lindstrom, Sven-Olof, 3,697,598.
- Mo och Domsjo Aktiebolag: *See—*
- Brannland, Rolf August; Alsefelt, Per-Erik Ingemar; and Gyllensten, Hans Otto, 3,654,071.
- Croon, Ingemar Liss-Albin; Dillen, Sten Oskar; and Noreus, Sture Erik, 3,652,388.
- Croon, Ingemar Liss-Albin; and Blomqvist, Nils Verner, 3,700,549.
- Eriksson, Erik Helmer, 3,635,266.
- Eriksson, Erik Helmer; Frisk, Olof Edvin; Hogberg, Lars-Gunnar; Lofgren, Stig-Gunnar; and Tjarnstrom, Sven Paul, 3,659,636.
- Grafstrom, Stig Olof; and Blomqvist, Nils Verner, 3,645,456.
- Hellsten, Martin; and Emanuelsson, Jan, 3,655,569.
- Johansson, Hans Arne Valendier, 3,701,467.
- Johansson, Jarl Harald; and Tornqvist, Jan Tore, 3,682,919.
- Moren, Rolf Erhard; and Ydren, Nils-Erik, 3,663,251.
- Noreus, Sture Erik Olof; and Samuelson, Hans Olof, 3,639,205.
- Noreus, Sture Erik Olof; and Samuelson, Hans Olof, 3,652,385.
- Noreus, Sture Erik Olof; and Samuelson, Hans Olof, 3,652,386.
- Samuelson, Hans Olof; and Noreus, Goteborg Sture Erik Olof, 3,701,712.
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- Mobay Chemical Company: *See—*
- Bernard, David L.; Backus, John K.; and Darr, William C., 3,644,232.
- Cross, James M., 3,644,459.
- Metzger, Sidney H., Jr.; and Over, John E., 3,637,583.
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- Mobell, Sidney F. Cuff link guard. 3,634,911, 1-18-72, Cl. 24-90.5.
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- Moberly, Charles W.: *See—*
- Crouch, Willie W.; and Moberly, Charles W., 3,687,907.
- Moberly, Charles W.; and Kahle, Gerald R., to Phillips Petroleum Company. Vinyl monomer polymerization process. 3,642,744, 2-15-72, Cl. 260-87.5.
- Moberly, Raymond Ronald: *See—*
- Owen, James Neal; Moberly, Raymond Ronald; Martin, Edwin J., Jr.; Yamada, Akemichi; and Thomas, Edmund C., 3,675,162.
- Mobil Oil Corporation: *See—*
- Allen, Paul T.; and Drinkard, B. M., 3,698,157.
- Anderson, James J.; Byrd, Wendell M., Jr.; and Camacho, Vasco G., 3,706,821.
- Andress, Harry J., Jr., 3,634,248.
- Andress, Harry J., Jr.; and Capowski, Julius, 3,652,242.
- Andress, Harry J., Jr., 3,655,560.
- Andress, Harry J., Jr., 3,677,724.
- Andress, Harry J., Jr., 3,677,725.
- Argauer, Robert J.; and Landolt, George R., 3,702,886.
- Billet, James, 3,642,957.
- Blount, Elmo M., 3,642,065.
- Blount, Elmo M.; Snavey, Earl S., Jr.; Messenger, Joseph U.; and Prueger, Nicolas J., 3,677,340.
- Blount, Elmo M.; and Prueger, Nicolas J., 3,695,358.
- Blount, Floyd E.; and Allen, Wallace B., 3,689,395.
- Bothne, Ralph Edward, 3,689,748.
- Bourguet, Jean M.; and Hart, Francis D., 3,669,903.
- Braid, Milton, 3,644,206.
- Braid, Milton, 3,654,154.
- Braid, Milton, 3,654,155.
- Braid, Milton; and Law, Derek A., 3,682,980.
- Braid, Milton, 3,683,032.
- Bridger, Robert F., 3,634,238.
- Bridger, Robert F.; Kinney, Robert E.; and Williams, Albert L., 3,651,151.
- Bridger, Robert F., 3,665,038.
- Broderick, Edward J.; and Rein, Burton M., 3,641,120.
- Brooks, Warren B.; Dean, James T.; Manning, William F.; Rupp, Lewis A.; and Talley, William A., Jr., 3,682,242.
- Bullard, Edward M., 3,666,834.
- Burruss, George T., 3,637,880.
- Burruss, George T.; and Willis, James L., Jr., 3,679,741.
- Butter, Stephen A., 3,647,835.
- Butter, Stephen A., 3,700,706.
- Caesar, Philip D.; Haag, Werner O.; and Wise, John J., 3,647,916.
- Cattanach, John, 3,699,182.
- Chen, Albert C.; Butter, Stephen A.; and Hobson, Richard W., 3,687,988.
- Chen, Hai Y., 3,684,738.
- Chen, Nai Yuen; and Lucki, Stanley J., 3,668,266.
- Chen, Nai Yuen; and Smith, Fritz A., 3,673,267.
- Chen, Nai Yuen; Lucki, Stanley J.; and Garwood, William E., 3,700,585.
- Childs, Elbert B., 3,653,773.

- Ciric, Julius, 3,692,470.
- Clayton, William J., 3,633,247.
- Clayton, William J., 3,662,434.
- Clayton, William J.; and Keyser, Charles D., 3,682,028.
- Commichau, Axel Klaus, 3,696,036.
- Comisso, Nicholas D., 3,648,916.
- Coty, Vernon F.; Heilweil, Israel J.; and Leavitt, Richard I., 3,672,953.
- Davis, Francis E., Jr.; Derr, Walter R.; and Ginter, Earle F., 3,661,768.
- Dennis, Charles L., 3,668,619.
- Derr, Walter R.; and Davis, Francis E., Jr., 3,649,524.
- Di Biasi, Daniel J.; and Zilis, Albin J., 3,668,179.
- Drinkard, B. M.; Allen, Paul T.; and Unger, Edward H., 3,653,184.
- Drinkard, B. M.; Allen, Paul T.; and Unger, Edward H., 3,656,278.
- Driscoll, Patrick R.; and Kaufman, Harold A., 3,636,050.
- Driscoll, Patrick R., 3,655,659.
- Driscoll, Patrick R., 3,655,898.
- Dwyer, Francis G., 3,642,434.
- Eichenbaum, Raymond; and Murray, James G., 3,635,839.
- Etherington, Robert W.; and Liauw, Koei-Liang, 3,639,458.
- Etherington, Robert W., Jr.; and Liauw, Koei-Liang, 3,673,255.
- Etherington, Robert W., Jr.; and Kaeding, Warren W., 3,706,807.
- Fau, Paul; and Petrucco, Richard J., 3,705,853.
- Felder, Glenn D., 3,644,293.
- Finberg, Arne, 3,644,587.
- Fisher, Robert E., 3,676,539.
- Fitch, John L.; and Vogt, Thomas C., Jr., 3,642,068.
- Foglia, Andrew J.; and Tinger, Harold G., 3,634,552.
- Foglia, Andrew J.; and Tinger, Harold G., 3,634,553.
- Forney, LeRoy S., 3,632,832.
- Frangatos, Gerassimos, 3,654,157.
- Frangatos, Gerassimos, 3,663,439.
- Frangatos, Gerassimos, 3,676,347.
- Frilette, Vincent J., 3,634,533.
- Frilette, Vincent J.; and Maatman, Russell W., 3,650,990.
- Garrison, George H.; Horodysky, Andrew G.; and Philips, Howard E., 3,651,150.
- Gee, Paul Y. C.; and Andress, Harry J., Jr., 3,634,052.
- Gee, Paul Y. C.; and Andress, Harry J., Jr., 3,635,686.
- Gemmill, Robert M., Jr.; and Schick, John W., 3,640,870.
- Givens, Edwin N., 3,661,770.
- Givens, Wyatt W.; Caldwell, Richard L.; and Mills, William R., Jr., 3,686,503.
- Givens, Wyatt W., 3,688,117.
- Glass, John Richard, 3,653,838.
- Glenn, Edwin E., Jr.; Slover, Vasei R.; and Strubhar, Malcolm K., 3,705,626.
- Gorring, Robert L., 3,642,577.
- Gough, Stanley T. D., 3,681,045.
- Graven, Richard G., 3,649,520.
- Graven, Richard G., 3,658,690.
- Grayson, Herbert G.; and Miller, Edwin F., 3,688,755.
- Guarino, John P.; and Williams, Robert H., 3,635,807.
- Guinzy, Norman J.; Kerns, Clyde W.; Ruehle, William H.; and Teague, Henry E., 3,696,331.
- Haag, Werner O.; and Whitehurst, Darrell Duayne, 3,635,761.
- Haag, Werner O.; and Whitehurst, Darrell Duayne, 3,668,271.
- Haase, Donald A., 3,682,730.
- Haase, Donald A., 3,684,633.
- Hanson, Francis V.; and Snyder, Paul W., Jr., 3,684,694.
- Harter, Michael D.; MacFarlane, Benedict; and Weekman, Vern W., Jr., 3,707,463.
- Hawk, Daniel E., 3,705,603.
- Hollinghurst, Ralph; and Papay, Andrew G., 3,652,410.
- Horodysky, Andrew G., 3,691,220.
- Horodysky, Andrew G., 3,703,504.
- Horodysky, Andrew G.; and Jagers, William, 3,703,505.
- Ireland, Henry R.; and Snyder, Paul W., Jr., 3,671,419.
- Jenkins, Edwin Earl, 3,687,839.
- Johnston, Byron E.; and Taussig, Peter R., 3,649,681.
- Jones, Lloyd G., 3,637,013.
- Jones, Lloyd G., 3,637,014.
- Jurewicz, Anthony T.; and Forney, Le Roy S., 3,651,126.
- Kaufman, Harold A., 3,639,537.
- Kaufman, Harold A.; and Napier, Roger P., 3,707,365.
- Kemp, Robert T., 3,641,052.
- Kerr, George T., 3,682,996.
- Kiely, Robert R., 3,647,060.
- Kilheimer, John R.; and Kaufman, Harold A., 3,689,658.
- Kinnaird, Robert N., Jr., 3,707,388.
- Koehl, William J., Jr., 3,649,675.
- Kokotailo, George T.; and Lawton, Stephen L., 3,640,680.
- Lake, Connie, 3,653,584.
- Lake, Connie, 3,679,126.
- Lake, Connie, 3,687,408.
- Law, Derek A., 3,682,935.
- Lenihan, Jeremiah P., 3,701,091.
- Long, Bernard C., 3,689,403.
- Machell, Eugene F.; Wylie, John E.; and Thompson, Robert B., 3,662,013.
- Manning, William F., 3,672,177.
- Mc Alpin, Silvan E., 3,696,326.
- McAdow, Walter R., 3,692,731.
- McAdow, Walter R., 3,697,070.
- McAlpin, Silvan E., 3,647,019.
- McAlpin, Silvan E., 3,673,554.
- McCabe, Leo J., 3,664,957.
- McKee, Horace L., 3,675,771.
- Melton, Thomas M., 3,699,193.
- Messenger, Joseph U., 3,688,845.
- Miale, Joseph N., 3,676,369.
- Mikovsky, Richard J.; Silvestri, Anthony J.; and Smith, Robert L., 3,663,426.
- Mikovsky, Richard J.; and Srinivasan, Sundaresa, 3,681,021.
- Mitchell, John G., 3,658,080.
- Morrow, Terry R., 3,671,422.
- Murphey, Richard C., 3,662,540.
- Musgrave, Albert W., 3,697,939.
- Myers, Herbert, 3,646,172.
- Myers, Herbert, 3,697,499.
- Napier, Roger P., 3,658,909.
- Napier, Roger P.; and Pirmik, Michael P., 3,641,061.
- Nasser, John, 3,660,478.
- Nasser, John, 3,697,591.
- Nelms, Jimmie J., 3,638,498.
- Nelson, Murrell D., 3,684,038.
- Nnadi, John C., 3,677,943.
- Noyes, Eliot F., 3,683,172.
- Otto, Ferdinand P.; and Logothetis, Andreas, 3,642,847.
- Otto, Ferdinand P., 3,649,229.
- Otto, Ferdinand P.; and Logothetis, Andreas, 3,649,659.
- Otto, Ferdinand P.; and Logothetis, Andreas, 3,649,661.
- Plank, Charles J.; Waldo, Pharez, G.; and Doherty, Harry G., 3,669,875.
- Plank, Charles J.; and Rosinski, Edward J., 3,676,330.
- Rein, Burton M., 3,682,999.
- Rensberg, Albert L., 3,637,831.
- Ritter, Sammie F., 3,687,218.
- Robinson, Allan B., 3,698,155.
- Rodriguez, Manuel F., 3,631,832.
- Rohn, Charles L., 3,686,385.
- Rosinski, Edward J.; and Simmons, Kenneth G., 3,645,914.
- Rousso, Jack J., Jr.; and Willman, George N., 3,678,216.
- Rubin, Mae K.; and Rosinski, Edward J., 3,699,139.
- Ruehle, William H., 3,651,451.
- Ruehle, William H.; Hodge, John D., Jr.; and Gray, William C., 3,671,929.
- Schick, John W.; and Gemmill, Robert M., Jr., 3,655,561.
- Seger, Francis M., 3,635,866.
- Sherry, Howard S.; and Schwartz, Albert B., 3,677,698.
- Smith, Clarence G., 3,704,450.
- Smith, Daniel O., 3,684,155.
- Stancell, Arnold F.; and Schard, Malcolm P., 3,634,551.
- Stancell, Arnold F.; and Spencer, Arthur T., 3,657,113.
- Starr, Leon, 3,646,115.
- Stehl, George R., 3,637,113.
- Stourmas, Stamoulis; Heiba, El-Ahmadi I.; and Dessau, Ralph M., 3,706,541.
- Streed, Carl W.; and Yan, Tsoung-Yuan, 3,702,818.
- Strong, Jerry G.; and Kaufman, Harold A., 3,678,070.
- Strong, Jerry G., 3,696,199.
- Talley, William A., Jr., 3,638,722.
- Talley, William A., Jr., 3,643,736.
- Talley, William A., Jr., 3,688,781.
- Theissen, Robert J., 3,652,645.
- Tinger, Harold G.; and Colombo, Edward A., 3,694,524.
- Tobias, Michael A., 3,636,047.
- Venuto, Paul B.; and Whyte, Thaddeus E., Jr., 3,661,769.
- Warburton, Richard T., 3,687,350.
- Ward, Charles F., 3,696,365.
- Weinstein, Benjamin; and Rein, Burton Maxwell, 3,694,500.
- Wheeling, Robert F., 3,636,322.
- Wilson, Robert C., Jr., 3,640,905.
- Wuertz, John H., 3,685,124.
- Mobil Oil Corporation, mesne: *See—*
- Commichau, Axel Klaus, 3,652,411.
- Keyman, Jacobus M.; and Maschke, Arnold E., 3,692,714.
- Mobile Aerial Towers: *See—*
- Myers, Lester L., 3,690,693.
- Mobile Drilling Company, Inc.: *See—*
- Henson, William P., 3,651,876.
- Henson, William P., 3,664,444.
- Mobile Dry, Inc.: *See—*
- Hull, Donald, 3,702,183.
- Mobius, Heinzhorst: *See—*
- Popp, Jurgen; Jakob, Franz; and Mobius, Heinzhorst, 3,634,541.

- Mobius, Heinzhorst; Keil, Gunter; and Jakob, Franz, to Hoechst Fibers Incorporated, mesne. Modified polyesters and shaped structures made therefrom. 3,663,508, 5-16-72, Cl. 260-49.
- Mobley, Frederick F.: *See—*
Tossmann, Barry E.; Mobley, Frederick F.; and Fischell, Robert E., 3,637,169.
- Mobley, Frederick F., to United States of America, Navy. Variable magnetic hysteresis rod system. 3,698,660, 10-17-72, Cl. 244-1.00r.
- Mobus, Gunter, to Vaillant, Joh., KG. Gas burner control apparatus for operating a piezoelectric ignition system in conjunction with the gas valves. 3,676,041, 7-11-72, Cl. 431-47.000.
- Mobus, Karl, KG Zeichnungs-Ordner: *See—*
Kohler, Heinz-Werner, 3,704,051.
- Mocas, Verlin A., to Richardson Company, The. Sealing assembly for storage batteries. 3,671,325, 6-20-72, Cl. 136-178.000.
- Moch, Irving, Jr.: *See—*
Frank, Herman J.; and Moch, Irving, Jr., 3,691,093.
- Mochida, Hisashi, to Daito Mfg. Co., Ltd. Safety mechanism for a flow conduit damper. 3,643,582, 2-22-72, Cl. 98-86.
- Mochida, Hisashi, to Daito Mfg. Co., Ltd. Fuse melt type damper device for intercepting flow through a duct. 3,672,386, 6-27-72, Cl. 137-77.000.
- Mochida Seiyaku Kabushiki Kaisha: *See—*
Ogawa, Nobuhisa, 3,642,978.
- Mochida, Yoshihiro: *See—*
Hiragaki, Shigehito; and Mochida, Yoshihiro, 3,679,309.
- Mochizuki, Kazuo: *See—*
Tanaka, Masao; Kagawa, Tsuneo; Mochizuki, Kazuo; and Kohagura, Masahiro, 3,655,514.
Tanaka, Masao; Oka, Tetuo; Fujio, Tatsuro; and Mochizuki, Kazuo, 3,669,842.
- Mochizuki, Masatoshi: *See—*
Uno, Tatsujiro; and Mochizuki, Masatoshi, 3,649,316.
- Mochizuki, Masayuki, to Mitsubishi Denki Kabushiki Kaisha. Switch actuator for an electronic cooking device. 3,639,717, 2-1-72, Cl. 200-172.
- Mochizuki, Mitsuaki, to Okazaki Manufacturing Company. Method of making sensing elements for resistance-temperature probes. 3,638,303, 2-1-72, Cl. 29-614.
- Mochizuki, Mitsuaki; Tanaka, Minoru; and Koyama, Tadataka. Method of making joint. 3,691,656, 9-19-72, Cl. 29-628.000.
- Mochizuki, Toyoyu; and Watanabe, Mamoru. Intensifying cylinder of a brake apparatus. 3,686,865, 8-29-72, Cl. 60-54.5ha.
- Mochizuki, Yoshifumi: *See—*
Takamune, Hirotsuki; and Mochizuki, Yoshifumi, 3,670,492.
- Mochizuki, Yoshifumi; and Tsuzuki, Akira, to Citizen Watch Co., Ltd. Day-date quick-adjuster for calendar timepiece. 3,645,090, 2-29-72, Cl. 58-58.
- Mochizuki, Yuu: *See—*
Kurokawa, Toshio; Nishiyama, Shoji; Nagai, Katsumi; and Mochizuki, Yuu, 3,700,229.
- Mochizuki, Zenichi: *See—*
Miura, Yasushi; Kashiwagi, Nobuo; and Mochizuki, Zenichi, 3,672,440.
- Mochizuki, Toyoyu; and Watanabe, Manoru. Servomotor device for braking. 3,653,210, 4-4-72, Cl. 60-54.5.
- Mock, James W.; and Bowen, William C., to Westinghouse Electric Corporation. Method for producing wrought zirconium alloys. 3,645,800, 2-29-72, Cl. 148-11.5.
- Mock, Karl Heinz, to Svenska Rotor Maskiner Aktiebolag. Rotary regenerative heat exchangers. 3,669,183, 6-13-72, Cl. 165-9.000.
- Moczar, Elemer: *See—*
Moczar, Madeleine Csanadi; Moczar, Elemer; and Payrau, Paul Bertrand, 3,676,298.
- Moczar, Madeleine Csanadi; Moczar, Elemer; and Payrau, Paul Bertrand, to Etablissements Public: Agence Nationale de Valorisation de la Recherche (ANVAR). Process for the treatment of organs to be used as grafts, notably animal or human corneas. 3,676,298, -11-72, Cl. 195-1.700.
- Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., to United States of America, Agriculture. Ethyl 2,2-dimethyl-3-(dibutylamino)-carbonyl-cyclobutanecarboxylate. 3,644,478, 2-22-72, Cl. 260-468.
- Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., to United States of America, Agriculture. N-methyl-N-furfuryl-oleamide and N-methyl-N-tetrahydrofurfuryl-oleamide. 3,661,936, 5-9-72, Cl. 260-347.3.
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- Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., to United States of America, Agriculture. N-Cyclohexyl-N-(2-cyanoethyl) oleamide as a plasticizer. 3,704,257, 11-28-72, Cl. 260-404.500.
- Modafferi, Richard, to McIntosh Laboratory, Inc. Reduced distortion driving of balanced transmission line phase bridge discriminators. 3,646,461, 2-29-72, Cl. 329-192.
- Moday, Inc.: *See—*
White, George H., 3,632,090.
- Moddemeijer, Jan H.; and Zijlstra, Dirk Jochum, to Hoogovens Delfstoffen N.V. Apparatus for loosening thread protectors from tubular bodies. 3,654,825, 4-11-72, Cl. 81-72.
- Moddeen, James H.; and Newton, Gary E., to Dow Chemical Company, The. Polymerization inhibitors for the catalytic hydration of acrylonitrile. 3,689,558, 9-5-72, Cl. 260-561.00n.
- Model, Ernest; and Bindler, Jakob, to Ciba-Geigy Corporation. Esters of halogenated hydroxy-diphenyl ethers. 3,642,872, 2-15-72, Cl. 260-479.
- Model, Ernst: *See—*
Pugin, Andre; Burdeska, Kurt; and Model, Ernst, 3,682,966.
Pugin, Andre; Burdeska, Kurt; and Model, Ernst, 3,701,791.
- Modelme, Robert L., to M.E.P.P.S. Manufacture d'Engins de Precision pour Peches Sportives. Fishing float. 3,694,951, 10-3-72, Cl. 43-41.200.
- Moden, James R., to AMH Corporation. Piped buttonhole construction. 3,675,279, 7-11-72, Cl. 24-202.000.
- Modena, Mario: *See—*
Cevdalli, Guidobaldo; Ragazzini, Mario; and Modena, Mario, 3,673,156.
- Moders, Hans-Ulrich; and Schaffer, Bernhard, to Siemens Aktiengesellschaft. Method and circuit arrangement for the supervision of connections in storage-programmed telecommunication switching installations for binary, coded messages. 3,660,824, 5-2-72, Cl. 40-172.5.
- Modern Caster Co., Inc.: *See—*
Hager, Clarence H., 3,680,710.
Hager, Clarence H., 3,700,113.
- Modern Decorating Company: *See—*
Olsen, Thomas W., 3,654,856.
Olsen, Thomas W., 3,659,523.
- Modern Engineering Company, Inc.: *See—*
Lamping, Robert F., 3,675,678.
- Modern Industries, Incorporated: *See—*
Schneider, Franklin R., 3,655,991.
- Schneider, Franklin R.; and Lanphear, Jerry D., 3,676,694.
- Modern Metallics, Inc.: *See—*
Green, Lawrence L., 3,707,445.
- Modern Mill, Inc.: *See—*
Ewell, Edgar C., 3,707,246.
- Modern Mold & Tool Corporation: *See—*
Liguori, Thomas A., 3,679,318.
- Modern Plastic Sales: *See—*
Scoggin, Baxter L., Jr.; Vaughan, Woodrow E.; and Reed, Gerald D., 3,654,754.
- Modern Pollution Control, Inc.: *See—*
Szulagyi, Bela A.; Brent, Allan L.; and Greguss, Pal, 3,680,501.
- Modern Research Inc., mesne: *See—*
Davies, Ronald C., 3,675,036.
- Moderna Butiksinredningar AB: *See—*
Axhamer, Franz Lennart, 3,641,950.
- Modernfold of Canada Limited-Modernfold du Canada Limitee: *See—*
Elhen, Karl C., 3,693,694.
- Modes, Edward E. Adjustable pressure responsive transducer. 3,676,620, 7-11-72, Cl. 200-83.00s.
- Modestov, Boris Sergeevich: *See—*
Bodunov, Igor Vasilievich; Modestov, Boris Sergeevich; and Ivanchenko, Viktor Vasilievich, 3,704,076.
- Modestov, Jury Konstantinovich: *See—*
Galutva, Gennady Vasilievich; Ryazantsev, Alek Iosifovich; Presnyakov, Gennady Stepanovich; and Modestov, Jury Konstantinovich, 3,684,904.
- Modglin, Donald D.: *See—*
Pelster, Arthur F.; and Modglin, Donald D., 3,677,174.
- Modicon Corporation: *See—*
Fletcher, William E.; and Rosseay, Leon B., 3,686,639.
- Modigliani, Dario Claude Fulvio: *See—*
Cahn, Jean; Canonne, Edmond Marie; Lejeune, Guy; Ligny, Gaston Arthur Francois; and Modigliani, Dario Claude Fulvio, 3,634,449.
- Modine, Arthur B.; Huggins, Homer D.; and Cook, Neal A., to Modine Manufacturing Company. Modular air cooled condenser. 3,707,185, 12-26-72, Cl. 165-111.000.
- Modine Manufacturing Company: *See—*
Frost, Donald J., 3,688,372.
Huggins, Homer D., 3,643,735.
Modine, Arthur B.; Huggins, Homer D.; and Cook, Neal A., 3,707,185.
- Mosier, James A.; and Dolister, Harold H., 3,689,972.
- Slaasted, Raymond S., 3,666,294.
- Modl, Frich K., to Sulzer Brothers Limited. Process for the production of cast iron with spherulites. 3,689,255, 9-5-72, Cl. 75-123.0cb.
- Modovan, Michael T., Jr.: *See—*
Martin, Afton V.; and Modovan, Michael T., Jr., 3,654,709.

- Modoy, Inc.: *See—*
White, George H.; and Dunn, William J., 3,635,515.
- Modrey, Henry J. Apparatus for treating ferrous surfaces. 3,638,600, 2-1-72, Cl. 114-222.
- Modrey, Henry J. Sludge scoop for oil tankers. 3,643,285, 2-22-72, Cl. 15-246.5.
- Modrey, Henry J. Expansion fastener. 3,668,968, 6-13-72, Cl. 85-83.000.
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- Modrey, Henry John. Roller metal pin for use as electric connector or fastener. 3,688,248, 8-29-72, Cl. 339-258.00r.
- Modular Systems, Inc.: *See—*
Welch, Philip Craig, 3,645,162.
Welch, Phillip Craig, 3,634,983.
- Moduthagam, Michael: *See—*
Baltazzi, Evan S.; Shelffo, Loren E.; and Moduthagam, Michael, 3,646,866.
- Moe, Fred L. Machine tool. 3,690,687, 9-12-72, Cl. 279-4.000.
- Moe, George, to McDonnell Douglas Corporation. Method for producing a water activatable battery. 3,671,318, 6-20-72, Cl. 136-6.000.
- Moe, Herbert C.: *See—*
Versaw, Edward F.; Moe, Herbert C.; and Reed, Jerry L., 3,693,880.
- Moe, John L.: *See—*
Harkenrider, Robert J.; and Moe, John L., 3,675,046.
Harkenrider, Robert J.; and Moe, John L., 3,700,933.
- Moe, John L.; and Russell, Charles H., to Waynco, Inc. Phase control. 3,636,379, 1-18-72, Cl. 307-252.
- Moe, William West: *See—*
Barkman, Byron L.; Moe, William West; and Ross, Austin, 3,678,187.
- Moe, William West, to Printing Developments, Inc. Electronic reproduction of continuous image with controlled modification of image reproduction. 3,646,262, 2-29-72, Cl. 178-6.7.
- Moede, Larry William: *See—*
United States of America, National Aeronautics and Space Administration, 3,681,581.
- Moedendorfer, Herbert; and Schubert, George E., to Caterpillar Tractor Company. Disc brake. 3,661,234, 5-9-72, Cl. 188-170.
- Moeglich, Karl, 'Automatic' Sprinkler Corporation of America. Educational apparatus. 3,637,979, 1-25-72, Cl. 219-271.
- Mochlenpah, Walter G.; and Farnsworth, Dennis G., to Hydro-Air Engineering, Inc. Carriage with track clamp. 3,687,239, 8-29-72, Cl. 188-43.000.
- Mochlenpah, Walter G. Apparatus for fabricating wood structures. 3,693,542, 9-26-72, Cl. 100-231.000.
- Moehlman, Vernon C.; and Klein, Robert J., to Olin Mathieson Chemical Corporation. Shot protector. 3,669,023, 6-13-72, Cl. 102-42.00c.
- Moelants, Felix Jan: *See—*
Depoorter, Henri; Rillaers, Alfred; Lemahicu, Gerard; and Moelants, Felix Jan, 3,653,905.
Rillaers, Guy Alfred; Depoorter, Henri; and Moelants, Felix Jan, 3,687,670.
- Moelker, Huibert Cornelis Theus, to Organon Inc. Preparation of stable, water-soluble enzyme conjugates. 3,654,083, 4-4-72, Cl. 195-63.
- Moeller & Neumann GmbH: *See—*
Bier, Albert, 3,673,841.
Buchheit, Otto Karl, 3,672,489.
Buchheit, Otto Karl, 3,699,794.
Fries, Gunter Karl, 3,643,537.
Fries, Gunter Karl; and Marx, Berthold Jakob, 3,662,638.
Grandmontagne, Walter, 3,670,864.
Greis, Karl Wilhelm, 3,645,158.
Hamacher, Paul Friedrich, 3,667,335.
Kreiskorte, Heinz A., 3,646,686.
Linz, Peter Alois, 3,664,662.
Metzger, Hans Siegfried, 3,659,450.
Metzger, Hans Siegfried; and Gilges, Fred, 3,659,451.
Neumann, Karl Josef; and Ostbringhaus, Otto, 3,687,446.
Neumann, Klaus, 3,675,909.
- Moeller, Alfred H.; Demont, Michel; and Nickstadt, Albert G., to Nickstadt-Moeller, Inc. Oral, nasal and labial compositions containing menthyl keto esters. 3,644,613, 2-22-72, Cl. 424-49.
- Moeller, Axel, to Moeller Mfg. Co., Inc. Marine bailer. 3,703,150, 11-21-72, Cl. 114-197.000.
- Moeller, Hermann: *See—*
Andres, Rudolf; and Moeller, Hermann, 3,687,215.
- Moeller, Lloyd E.: *See—*
Mast, Gifford M.; and Moeller, Lloyd E., 3,665,163.
- Moeller Mfg., Co., Inc.: *See—*
Moeller, Axel, 3,703,150.
- Moellering, Hans: *See—*
Bergmeyer, Hans Ulrich; Gruber, Wolfgang; Moellering, Hans; and Thum, Waldemar, 3,645,851.
- Moen, Asbjorn. Plant for A.C. power supply to a device movable along a track. 3,660,621, 5-2-72, Cl. 191-2.
- Moen, Carl D. Lap supported work tray. 3,701,576, 10-31-72, Cl. 312-231.000.
- Moen, Walter B.; and Spies, George R., to Air Reduction Company, Incorporated. Pressure control system for cryogenic fluids. 3,650,290, 3-21-72, Cl. 137-339.
- Moenich, Raymond A.: *See—*
Pelino, William M.; Moenich, Raymond A.; McLean, Benjamin F.; and Hamblin, James C., 3,662,168.
- Moerkens, Jozef Cornelis; and Porro, Giovanni, to U.S. Philips Corporation. Arrangement for igniting and a supplying gas and/or vapour discharge lamp. 3,657,597, 4-18-72, Cl. 315-86.
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- Moertel, George B.: *See—*
Johnston, James R.; and Moertel, George B., 3,686,719.
- Moertel, George B., to Textron Inc. Methods and apparatus for cleaning gapped slide fastener chain. 3,631,581, 1-4-72, Cl. 29-408.
- Moertel, George B.; and Wilson, James R., to Textron, Inc. Slide fastener stop assembly. 3,672,008, 6-27-72, Cl. 24-205.11.
- Moertel, George B., to Textron, Inc. Machine for coiling filamentary material. 3,688,805, 9-5-72, Cl. 139-11.000.
- Moes, Lothar: *See—*
Burmeister, Karl-Heinz; Hoenselaer, Wilhelm; and Moes, Lothar, 3,642,265.
- Moeser, Alan J., to Columbia Broadcasting System, Inc. Amusement device producing sound with visual reinforcement. 3,698,128, 10-17-72, Cl. 46-175.000.
- Moesker, Gerard: *See—*
Rudolph, Joannes Gerard; and Moesker, Gerard, 3,707,655.
- Moesser, Wilhelm, to Strecker, Otto C., K.G. and Maschinenfabrik zum Bruderhaus G.m.b.H. Drawing press. 3,674,194, 7-4-72, Cl. 226-187.000.
- Moessinger, Albert E. External weft fed loom and a shuttle therefor. 3,696,843, 10-10-72, Cl. 139-125.000.
- Moffa, Dominick. Cigarette extinguisher. 3,695,277, 10-3-72, Cl. 131-235.00r.
- Moffa, Joseph: *See—*
Crow, Harold E.; Moffa, Joseph; and Berge, C. Frederick, 3,694,007.
- Moffatt, John G.: *See—*
Albrecht, Hans; and Moffatt, John G., 3,658,786.
Russell, Alan F.; Greenberg, Seymour; and Moffatt, John G., 3,658,787.
- Verheyden, Julien P.; and Moffatt, John G., 3,687,931.
- Moffatt, John G., to Syntex Corporation. Sulfonium ylids of active methylene compounds. 3,641,055, 2-8-72, Cl. 260-332.3.
- Moffatt, John G.; and Jones, Gordon H., to Syntex Corporation. Phosphorylated phosphonium ylids. 3,662,031, 5-9-72, Cl. 260-927.
- Moffatt, William H., to Koppers Company, Inc. Spray steelmaking apparatus and method. 3,650,518, 3-21-72, Cl. 266-34.
- Moffitt, Jerry T.: *See—*
Slagg, James E.; Nelson, Grant W.; Moffitt, Jerry T.; and Balint, Joseph A., 3,676,822.
- Moffitt, John Stuart, to International Business Machines Corporation. Acoustic coordinate data determination system. 3,692,936, 9-19-72, Cl. 178-18.000.
- Moffitt, Kenneth S.: *See—*
Leven, Samuel; and Moffitt, Kenneth S., 3,656,561.
- Moffitt, Lucian R., Inc.: *See—*
Lantry, Burrell J., 3,637,269.
- Moffitt, Roy M., Company, The: *See—*
Seedorf, Robert R., 3,653,129.
- Mogaki, Tadahisa, to Nitto Kohki Company Limited, mesne. Vibration sander. 3,657,844, 4-25-72, Cl. 51-170.0mt.
- Mogelnicki, Stanley; and Gatza, Eugene M., to Dow Chemical Company, The. Water soluble mixtures of amino condensation polymers and cationic vinyl addition polymers for sludge conditioning. 3,652,479, 3-28-72, Cl. 260-29.4.
- Mogensen, Arne: *See—*
Jedvall, Gustaf I., 3,705,346.
Jedvall, Gustaf I., 3,706,927.
- Mogg, Donald W.: *See—*
Tarbell, Harlan E.; Mogg, Donald W.; and Shea, Frederick L., 3,644,240.
- Moggre, Anthonie Jannis, to U.S. Philips Corporation. Circuit arrangement comprising switching means for periodically interrupting a current supplied to an inducting coil. 3,673,458, 6-27-72, Cl. 315-27.00r.
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Uchida, Kinji; Mogi, Koya; and Yokotsuka, Tamotsu, 3,695,897.
Yokotsuka, Tamotsu; Aonuma, Tatsuo; Mogi, Koya; Fukushima, Danji; Yasuda, Atsushi; Watanabe, Hiroharu; Tsukada, Naoshi; and Arai, Akira, 3,647,484.
- Mogi, Noboru: *See—*
Hashimoto, Koji; Mogi, Noboru; and Shindo, Makoto, 3,644,223.

Mogi, Toshio, to Denki Onkyo Co., Ltd. Contactless push-button type switching apparatus. 3,662,315, 5-9-72, Cl. 338-32.
 Mogi, Toshio, to Denki Onkyo Co., Ltd. Snap-action switching apparatus. 3,703,695, 11-21-72, Cl. 338-32.00r.
 Mogi, Yuuji: *See*—
 Nishino, Tsutomu; and Mogi, Yuuji, 3,696,266.
 Mogil, Bernard: *See*—
 Aasen, Torulf F.; Mogil, Bernard; and Sepulveda, William, Jr., 3,700,231.
 Mogilevkin, Felix Davydovich: *See*—
 Shmidrov, Jury Petrovich; Elektrostal, Moskovskaya Oblast; Mogilevkin, Felix Davydovich; and Rabinovich, Oleg Yakovlevich, 3,683,664.
 Mogilner, Geoffrey A.: *See*—
 Mogilner, Geoffrey A.; and Johnson, Rodney D. (said Johnson assor. to said), 3,695,617.
 Mogilner, Geoffrey A.; and Johnson, Rodney D., said Johnson assor. to said Mogilner, Geoffrey A. Tensegrity structure puzzle. 3,695,617, 10-3-72, Cl. 273-156.000.
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 Mogul, Eugene: *See*—
 Jacob, Gerald W.; Mogul, Eugene; Boros, Paul Z.; Schiff, David; Reader, Malcolm; and Kamen, Ira, 3,646,256.
 Mohacs, Ernest: *See*—
 Den Hollander, Charles William; Leimgruber, Willy; and Mohacs, Ernest, 3,682,925.
 Leimgruber, Willy; and Mohacs, Ernest, 3,634,429.
 Mohammad, John Markus. Collapsible garment hanger. 3,705,673, 12-12-72, Cl. 223-94.000.
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 Mohan, William L.; and Willits, Samuel P., to Spartanic, Ltd. Random oriented decoder for label decoding. 3,643,068, 2-15-72, Cl. 235-61.11.
 Mohan, William L.; and Willits, Samuel P., to Spartanic, Ltd. Pitch matching detecting and counting system. 3,663,803, 5-16-72, Cl. 235-92.
 Mohary, Paul J.: *See*—
 Beasley, Jack O.; and Mohary, Paul J., 3,668,506.
 Mohawk Data Sciences Corporation: *See*—
 Bitto, Joseph R.; and Hammel, Clifford M., 3,644,812.
 Caldwell, Earl W., 3,633,177.
 Coccagna, Edmund G., 3,646,455.
 Cogar, George R.; Sekse, Torkjell; Banziger, Walter; Ming, Joseph W.; and Horvath, Laszlo, 3,666,152.
 DuBuis, Edwin O.; and Bayer, Carl, Jr., 3,643,103.
 Edwards, James H.; and Swett, Alan M., 3,633,500.
 Edwards, James H., 3,633,501.
 Kearns, Thomas M., 3,633,496.
 Lozeau, Paul R.; and Sabonis, Charles J., 3,701,318.
 Marsh, Lynn W.; and Schneiderhan, Edward M., 3,699,884.
 Read, John D., 3,632,052.
 Mohawk Data Sciences Corporation, mesne: *See*—
 Marsh, Lynn W., Jr., 3,654,857.
 Mohawk Industrial Laboratories, Inc.: *See*—
 Lanahan, John H.; and Abraham, William W., 3,672,498.
 Lanahan, John H., 3,682,033.
 Lanahan, John H.; and Abraham, William W., 3,690,457.
 Lanahan, John H.; and Abraham, William W., 3,704,781.
 Lanahan, John L., 3,645,438.
 Mohawk Industries Inc.: *See*—
 Klemke, Rudolf, 3,634,317.
 Klemke, Rudolf H. E., 3,663,503.
 Mohr, Yoichi; and Ichimura, Hirohisa, to Nissan Motor Company, Limited. Control system for an automotive automatic power transmission. 3,670,598, 6-20-72, Cl. 74-866.
 Mohl, Wilhelm; and Kruger, Heinz, to Fa. Otto Thamert, Textil-u. Kunststoff GmbH & Co., KG. Artificial breast. 3,663,968, 5-23-72, Cl. 3-36.000.
 Mohle, John H.: *See*—
 Le Peer, Clarence M.; and Mohle, John H., 3,635,558.
 Mohler, Edwin C.: *See*—
 Martin, Eugene G.; and Mohler, Edwin C., 3,672,000.
 Mohlhenrich, Kenneth H.: *See*—
 Bryant, Stanley Charles; and Mohlhenrich, Kenneth H., 3,654,165.
 Mohn, Donald R.; and Mohn, Herbert D. Harvesting machine. 3,685,266, 8-22-72, Cl. 56-330.000.
 Mohn, Herbert D.: *See*—
 Mohn, Donald R.; and Mohn, Herbert D., 3,685,266.
 Mohns, John Phillip: *See*—
 Fraioli, Anthony Vincent; and Mohns, John Phillip, 3,644,145.
 Mohon, Windell N.; and Rodemann, Alfred H., to United States of America, Navy. Vacuum film holder for holograms. 3,700,302, 10-24-72, Cl. 350-3.500.

Mohondro, William R.: *See*—
 Fetzer, Maurice C.; Sprowl, John D.; and Mohondro, William R., 3,649,227.
 Mohondro, William R.; and Fetzer, Maurice C., to Kaiser Aluminum & Chemical Corporation. Method for forming aluminum sheet. 3,694,272, 9-26-72, Cl. 148-12.700.
 Mohr, Bernhard; Engel, Heinz; and Heijnis, James Watt Ijsbrand, to Akzona Incorporated. Godet for yarn transport and stretching apparatus. 3,698,614, 10-17-72, Cl. 226-193.000.
 Mohr, Bruno R. Device for hanging Christmas tree decorations. 3,704,487, 12-5-72, Cl. 24-73.0cp.
 Mohr, Dale C.: *See*—
 Coulon, Edward I.; Miller, Benny Jay; and Mohr, Dale C., 3,698,274.
 Mohr, Gunther: *See*—
 Schmidt, Karl Gunther; Joos, Alfred; Mohr, Gunther; and Schneider, Gerhart, 3,634,443.
 Mohr, Heinrich: *See*—
 Knechtel, Wilhelm; Brinkmann, Kurt; and Mohr, Heinrich, 3,643,311.
 Mohr, John, & Sons: *See*—
 Tokarz, Leo T., 3,706,387.
 Mohr, John G.; and Stacer, Ross G., to Magnavox Company, The. System for plural channel signal reception and readout and method of operation. 3,651,406, 3-21-72, Cl. 325-304.
 Mohr, Max C.: *See*—
 Hatcher, Burrell R.; Miccioli, Aldo R.; Mohr, Max C.; and Sheldon, Edward J., 3,706,998.
 Mohr, Reinhard: *See*—
 Herz, Luis; Mohr, Reinhard; Mundlos, Eberhard; Mundlos, Eberhard; and Ostermeier, Johann, 3,681,347.
 Lohe, Konrad; Mohr, Reinhard; Mundlos, Eberhard; and Freb, Hermann, 3,679,358.
 Mohr, Reinhard; and Ostermeier, Johann, to Farbwerke Hoechst Aktiengesellschaft Meister Lucius & Bruning. Basic ioninotriazole azoindole dyestuffs. 3,635,942, 1-18-72, Cl. 260-157.
 Mohr, Robert G., to Tartan Corporation. Ganging and stacking chair. 3,695,694, 10-3-72, Cl. 297-248.000.
 Mohr, Rudolf: *See*—
 Fromm, Hermann Dieter; Leonhard, Karl Wilhelm; Mohr, Rudolf; Schwarzmann, Matthias; and Wochle, Horst, 3,657,236.
 Oppenlander, Knut; Liebold, Gert; Mohr, Rudolf; Buettner, Egon; and Matschat, Karl, 3,684,735.
 Mohr, Rudolf. Paper cutting machines. 3,652,147, 3-28-72, Cl. 350-113.
 Mohr, Theodor O.: *See*—
 Forster, Theodor; and Mohr, Theodor O., 3,639,186.
 Mohri, Etsuzo; Hayakawa, Toshio; and Nishikawa, Akira, to Matsushita Electric Industrial Co., Ltd. UHF tuner. 3,697,904, 10-10-72, Cl. 334-51.000.
 Mohri, Kazunori: *See*—
 Saiga, Yoshinori; and Mohri, Kazunori, 3,706,343.
 Mohri, Yohichi, to Nissan Motor Company, Limited. Fluid operated position selecting device. 3,673,926, 7-4-72, Cl. 92-51.000.
 Mohri, Yohichi, to Nissan Motor Company, Limited. Line pressure regulator valve. 3,699,994, 10-24-72, Cl. 137-115.000.
 Mohri, Yohichi, to Nissan Motor Company, Limited. Hydraulic servo valve. 3,702,621, 11-14-72, Cl. 137-85.000.
 Mohri, Yoichi, to Nissan Motor Company, Limited. Hydraulic shift valve. 3,646,851, 3-7-72, Cl. 91-459.
 Mohrlok, Sharon R., to Dow Corning Corporation. Cosmetic wax composition. 3,641,239, 2-8-72, Cl. 424-64.
 Mohrman, Robert K.; Kifer, Paul E.; and Oborsh, Edward V., to Ralston Purina Company. Cat food with hexamic acid flavorant. 3,679,429, 7-25-72, Cl. 99-2.000.
 Mohwinkel, Franz, to Plasco Limited Company. Process of preserving potatoes in closed packages. 3,658,559, 4-25-72, Cl. 99-171.000.
 Moilanen, Veikko Mauri, to Enso-Gutzeit Osakeyhtio. Method of producing a laminate for use as a layer in a corrugated board. 3,673,031, 6-27-72, Cl. 156-206.
 Moir, Kenneth Wilfred. Apparatus for the analysis of fibrous constituents in feeds. 3,685,970, 8-22-72, Cl. 23-253.00r.
 Moir, Ralph W., to United States of America, Atomic Energy Commission. Apparatus for the conversion of high temperature plasma energy into electrical energy. 3,668,065, 6-6-72, Cl. 176-3.000.
 Moisan, Brian H.; and Schilb, William A., to Motorola, Inc. Temperature responsive circuit for protecting an electron device. 3,651,379, 3-21-72, Cl. 317-41.
 Moisdon, R. Francois. Vacuum pumping unit. 3,697,196, 10-10-72, Cl. 417-211.000.
 Moisescu, Gheorghe; Stoica, Valer; Wolf, Carol; and Spataru, Nicolaie, to Institutul de Cercetari Si Proiectari Alimentare. Process and plant for fast conditioning or thermal treatment of bread cereals, especially wheat. 3,640,206, 2-8-72, Cl. 99-237.
 Moiso, Tauno V.; and Kreula, Matti S., to Valio Meiyerien Keskusosuusliike. Measuring method for analyzing material containing fat and water. 3,691,455, 9-12-72, Cl. 324-50r.
 Moisson-Franckhauser, Francois, to Compagnie Generale d'Electricite. Superconductor. 3,646,249, 2-29-72, Cl. 174-126.

Moisson-Franckhauser, Francois, to Compagnie Generale d'Electricite. Cryostat current supply. 3,695,057, 10-3-72, Cl. 62-514.000.
 Moisture Control and Measurement Limited: *See*—
 Rockliff, Peter, 3,683,243.
 Moisture Register Company: *See*—
 Lundstrom, John, 3,684,952.
 Lundstrom, John W., 3,704,412.
 Mojselski, William, to Mo Clamp Co. Ltd. Sill clamp for automobiles. 3,696,653, 10-10-72, Cl. 72-296.000.
 Mokaam, Raghuath G., to Institute of Gas Technology. Gas cooling process and apparatus. 3,690,113, 9-12-72, Cl. 62-6.000.
 Mokrushin, Konstantin Dmitrievich: *See*—
 Chaikin, Boris Semenovich; Kozlov, Lev Ivanovich; Oblasti, Khimki Moskovskoi; Malchenko, Thomas Vasilievich; Mokrushin, Konstantin Dmitrievich; Yarovsky, Lev Volfovich; Maryanchik, Grigory Efimovich; Zhelnov, Boris Stepanovich; Tarasov, Vasily Mikhailovich Trubetskoy, Kirill Mikhailovich; Borshevsky, Igor Konstantinovich; and Chermensky, Dmitry Pavlovich, 3,697,058.
 Mokrzycki, Stanley Martin; Sexton, Edwin Leon; Powers, Thomas George; and Melnick, Daniel, to CPC International, Inc. Process for producing an instant cereal. 3,677,768, 7-18-72, Cl. 99-83.000.
 Mol, Edward K.; and Stahl, Marvin D., to Sparks, A. J., & Company, mesne. Abrasion-resistant conveyor belt. 3,661,245, 5-9-72, Cl. 198-193.
 Mol-Pak Corporation: *See*—
 Mixon, George A., 3,671,272.
 Molari, Pier Gabriele: *See*—
 Colamussi, Arturo; and Molari, Pier Gabriele, 3,636,964.
 Molby, Lloyd A.; Magown, Lloyd L.; and Steiner, Larry T., to LeTourneau, R. G., Inc. Mounting of dozer blades. 3,662,841, 5-16-72, Cl. 172-804.
 Molby, Lloyd A., to LeTourneau, R. G., Inc. Adjustable ball pin pivot. 3,684,314, 8-15-72, Cl. 280-461.00r.
 Molchan, Andrew John, to Bell Telephone Laboratories, Incorporated. Tactile response switch with unitary contact strip of independently operable plural disc contacts. 3,673,357, 6-27-72, Cl. 200-5.00a.
 Molcho, Aharon: *See*—
 Abrahami, Shoshana; Molcho, Aharon; and Wachs, Reuven, 3,652,718.
 Mold, James D.: *See*—
 Kallianos, Andrew G.; Mold, James D.; and Simpson, Melvyn I., 3,646,201.
 Norman, Vello; Williams, Thomas B.; Kallianos, Andrew G.; and Mold, James D., 3,703,901.
 Moldcast Manufacturing Company: *See*—
 Lasker, Martin Lawrence, 3,651,320.
 Moldenhauer, Max W. Rotor prestarter and brake. 3,635,027, 1-18-72, Cl. 60-54.
 Moldovan, Daniel: *See*—
 Woodland, Paul C.; and Moldovan, Daniel, 3,683,104.
 Moldovan, Michael Terrance, Jr., to AVM Corporation. Mechanical voting machine. 3,677,462, 7-18-72, Cl. 235-54.00r.
 Moldskred, Oddmund. Process and apparatus for the prevention of ice formation in tunnels. 3,668,368, 6-6-72, Cl. 219-213.
 Mole, Cecil J., to Westinghouse Electric Corporation. Thermoelectric device. 3,663,307, 5-16-72, Cl. 136-204.
 Mole, Robert F.: *See*—
 Decker, Robert W.; and Mole, Robert F., 3,690,468.
 Mole-Richardson Co.: *See*—
 Hankins, Maxey A., 3,633,024.
 Moleculon Research Corporation: *See*—
 Nichols, Larry D., 3,655,201.
 Obermayer, Arthur S., 3,662,882.
 Molenaar, Arian: *See*—
 De Ruig, Willem Gerbrecht; Molenaar, Arian; and Jonker, Hendrik, 3,637,386.
 Molenaar, Eenje, to Akzona Incorporated. Method for chemically modifying thread-forming polyesters. 3,692,745, 9-19-72, Cl. 260-75.00l.
 Molette, Albert H., Jr.: *See*—
 McNally, John M.; and Molette, Albert H., Jr., 3,669,562.
 Molex Incorporated: *See*—
 Baumanis, Bruno, 3,701,082.
 Bury, Allen J., 3,668,615.
 Horecky, Stanley V., 3,634,818.
 Horecky, Stanley V., 3,694,595.
 Krafthefer, Kerry M., 3,706,954.
 McDonough, Cletus G., 3,660,805.
 Molex Products Company: *See*—
 Baumanis, Bruno, 3,634,813.
 Bury, Allen J., 3,662,321.
 Krafthefer, Kerry M., 3,697,926.
 Krehbiel, John H., Sr.; and Krafthefer, Kerry M., 3,686,625.
 McDonough, Cletus G., 3,648,224.
 McDonough, Cletus G., 3,673,551.
 Moleyre, Jacques: *See*—
 Mauvernay, Roland Yves; Busch, Norbert; Moleyre, Jacques; and Simond, Jacques, 3,637,680.
 Mauvernay, Roland Yves; Busch, Norbert; Simond, Jacques; and Moleyre, Jacques, 3,676,496.
 Mauvernay, Roland-Yves; Busch, Norbert; Simond, Jacques; and Moleyre, Jacques, 3,663,566.
 Molho, Darius: *See*—
 Boschetti, Eugene; Molho, Darius; and Fontaine, Louis, 3,651,091.
 Boschetti, Eugene; Molho, Darius; and Fontaine, Louis, 3,651,223.
 Molho, Darius; Boschetti, Eugene; and Fontaine, Louis, to Lippa, Lyonnaise Industrielle Pharmaceutique. Benzodioxepine derivatives of guanidine. 3,651,089, 3-21-72, Cl. 260-340.3.
 Molho, Fred. Digital signal-processing system. 3,653,042, 3-28-72, Cl. 343-5.
 Molina, Orlando G., to North American Rockwell Corporation. Manufacturing a sensitive non-flammable dye penetrant. 3,671,183, 6-20-72, Cl. 8-85.000.
 Molinare, Anthony W., to Dutton-Lainson Company. Hub cap construction. 3,649,080, 3-14-72, Cl. 301-108.
 Moline, Augustin, to Societe Nationale Industrielle Aerospatiale. Automatic monitoring system for alarm circuits used on board aircraft. 3,689,920, 9-5-72, Cl. 340-411.000.
 Moline, Clifford C.: *See*—
 Cook, Ralph J.; Moline, Clifford C.; and Schumann, Joseph M., 3,707,146.
 Moline, Elmer Ray. Cushion hitch for vehicle bumpers. 3,664,685, 5-23-72, Cl. 280-486.000.
 Moline, George A. Industrial building design. 3,653,316, 4-4-72, Cl. 98-33.
 Moline, Robert Alan: *See*—
 Foxhall, George Frederic; and Moline, Robert Alan, 3,638,300.
 Moline, Robert R.: *See*—
 Morley, Richard E.; Weiss, Eugene M.; Moline, Robert R.; and Greenberg, Michael P., 3,681,597.
 Moline, Sheldon W., to Union Carbide Corporation. Beef refrigeration and preservation method. 3,648,474, 3-14-72, Cl. 62-64.
 Molino, Angelo R. Duct structure. 3,656,782, 4-18-72, Cl. 285-189.
 Molins, Desmond Walter; Williamson, David Theodore Nelson; McCombie, Alan Keith; and Stone, Horace Alexander, to Molins Machine Company Limited. Apparatus for feeding cigarettes or other rod-like articles. 3,633,735, 1-11-72, Cl. 198-82.
 Molins, Desmond Walter; and McCombie, Alan Keith, to Molins Machine Company Limited. Conveyor systems. 3,665,933, 5-30-72, Cl. 131-25.000.
 Molins, Desmond Walter, to Molins Machine Company Limited. Apparatus for producing rod-like articles. 3,668,045, 6-6-72, Cl. 156-441.000.
 Molins Limited: *See*—
 Davies, Robert William, 3,703,103.
 Preston, Edward G., 3,667,587.
 Rosenberg, Barnett; Brown, Felix H.; and Williamson, David Theodore Nelson (said Williamson & Said Bossons assor. of), 3,643,014.
 Rowlands, Tom, 3,703,971.
 Titow, Witold, 3,679,612.
 Molins Machine Company Limited: *See*—
 Bolt, Reginald C., 3,662,272.
 Fleit, Alexander; and John, Ronald, 3,684,333.
 Flett, Alexander, 3,689,087.
 Harris, Richard William, 3,659,694.
 Harris, Richard William, 3,685,631.
 Hinchcliffe, Dennis; and Hubbard, Henry James, 3,648,651.
 Irvine, John A., 3,637,984.
 John, Ronald, 3,704,959.
 Labbe, Francis A. M., 3,685,523.
 Maw, Philip A., 3,633,448.
 McEnery, John, 3,703,235.
 Molins, Desmond Walter; Williamson, David Theodore Nelson; McCombie, Alan Keith; and Stone, Horace Alexander, 3,633,735.
 Molins, Desmond Walter; and McCombie, Alan Keith, 3,665,933.
 Molins, Desmond Walter, 3,668,045.
 Pocock, Frederick; and Hirsh, Ivan Yehudi, 3,633,590.
 Powell, Gordon F. W., 3,691,823.
 Powell, Gordon Francis Wellington; and Preston, Edward George, 3,699,974.
 Rakowicz, Jan Antoni, 3,645,175.
 Roffey, William Arthur; and Fox, Austin Leslie, 3,663,146.
 Schorr, Murray Arnold; and Dyett, Derek Henry, 3,684,135.
 Molitor, Ulf W.: *See*—
 Aronsson, Lars Bertil; Arnell, Anders Bertil; and Molitor, Ulf W., 3,667,393.
 Molitorisz, Joseph, to Rotopak Systems Inc. Compressing apparatus. 3,691,941, 9-19-72, Cl. 100-89.000.
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Huckstadt, Harald; Saleck, Wilhelm; Randolph, August; Moll, Franz; and Ranz, Erwin, 3,640,715.
Huckstadt, Harald; Saleck, Wilhelm; Randolph, August; and Moll, Franz, 3,647,469.
Saleck, Wilhelm; Himmelmann, Wolfgang; Meyer, Rudolf; Moll, Franz; and Huckstadt, Harald, 3,637,391.
von König, Anita; Moll, Franz; Müller-Bardorff, Wolfgang; and Saleck, Wilhelm, 3,640,719.
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Kimmel, Cleve C.; and Moll, John H., 3,633,372.
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De Bic, Edouard; Tougarinoff, Boris; Sperner, Franz; and Moll, Justus, 3,689,046.
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Reiss, Robert Edward; Deuschle, Fritz; Moll, Wayne E.; and Merry, Jack D., 3,650,393.
- Mollard, Gaston: *See*—
Brenot, Claude; and Mollard, Gaston, 3,702,562.
- Mollaret, Virginia: *See*—
Casini, Paola; and Mollaret, Virginia, 3,686,011.
- Mollberg, Henri Rene: *See*—
Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; Kneip, Paul Hans Otto Josef; and Rohte, Oskar Adolf, 3,637,660.
Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; and Rohte, Oskar Adolf, 3,682,973.
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Hermstein, Wolfgang; and Mollenbeck, Klaus, 3,675,123.
Hermstein, Wolfgang; Mollenbeck, Klaus; and Gericke, Gerhard, 3,681,688.
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Simon, Wilhelm; Moller, Willi; and Dohner, Rene, 3,647,666.
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Tobey, Hubert E.; Moller, George O.; and Twiford, Richard L., 3,695,411.
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Andres, Rudolf; and Moller, Hermann, 3,633,391.
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Heins, Herbert, 3,652,318.
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Rausch, Werner; Oei, Hans Young; and Moller, Siegfried, 3,671,332.
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Seidel, Alex; Moller, Tilo; and Weldel, Helmut, 3,641,694.
Seidel, Alex; Moller, Tilo; and Weldel, Helmut, 3,678,800.
Seidel, Alex; Moller, Tilo; and Weldel, Helmut, 3,696,706.
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Simon, Wilhelm; Moller, Willi; and Dohner, Rene, 3,647,666.
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Nordin, Lars-Erik Reinhold; and Mollerfors, Lars William Anshelm, 3,705,602.
- Mollering, Hans: *See*—
Bergmeyer, Hans Ulrich; and Mollering, Hans, 3,657,071.
Bergmeyer, Hans Ulrich; Gruber, Wolfgang; Thum, Waldemar; Gawehn, Karlfried; and Mollering, Hans, 3,684,659.
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Allison, Arthur F.; Greening, Donald J.; and Mollgaard, Anton N., 3,675,104.
Allison, Arthur F.; Greening, Donald J.; and Mollgaard, Anton N., 3,681,624.
- Mollick, George Michael: *See*—
Pintard, Frederick Bruce; and Mollick, George Michael, 3,647,247.
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Fischer, Edward G.; and Molnar, Albert J., 3,645,469.
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Zuckerman, Mathew M.; and Molof, Alan H., 3,635,346.
Zuckerman, Mathew M.; and Molof, Alan H., 3,635,564.
Zuckerman, Mathew M.; and Molof, Alan H., 3,635,817.
Zuckerman, Mathew M.; and Molof, Alan H., 3,676,334.
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Maier, Ivan W., 3,633,055.
- Moloney, Earle F., Jr. Power operated armrest. 3,666,319, 5-30-72, Cl. 297-113.
- Molt, Kenneth R.: *See*—
Hechenbleikner, Ingenuin; and Molt, Kenneth R., 3,652,735.
- Molteni, Luigi: *See*—
Giani, Mario; Molteni, Luigi; and Gori, Enzo, 3,646,144.
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Brooks, Otis; and Moltz, Bernard S., 3,635,352.
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Hausslein, Robert W.; and Molvar, Henry E., Jr., 3,655,432.
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Coltrinari, Enzo L.; and Kindig, James K., 3,647,361.
Drobnick, James L.; Erhard, Albert E.; and Daugherty, Ellsworth W., 3,658,465.
Drobnick, James Louis; and Chen, Tom Tse-Pu, 3,694,147.
Erhard, Albert E.; and Allison, Jack B., 3,640,679.
Trimble, Carter H.; and Strott, David B., 3,640,678.
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Dobbelstein, Arnold; Hille, Hans-Dieter; and Momm, Anneliese Geb. Koziok, 3,676,403.
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Cocke, John; Mommens, Jacques H.; and Raviv, Josef, 3,701,111.
Loh, Louis S.; Mommens, Jacques H.; and Raviv, Josef, 3,694,813.
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Ono, Minoru; Momoi, Toshimitsu; and Kawachi, Youji, 3,643,137.
- Momoi, Toshimitsu: *See*—
Ono, Minoru; and Momoi, Toshimitsu, 3,645,807.
- Momose, Yutaka: *See*—
Kitano, Shin; and Momose, Yutaka, 3,637,243.
Kitano, Shin; Momose, Yutaka; Ishikawa, Kazuo; and Hida, Takashi, 3,656,600.
Kitano, Shin; and Momose, Yutaka, 3,659,690.
Kitano, Shin; and Momose, Yutaka, 3,696,897.
- Momsen, Marc F.: *See*—
Lottidge, Neil M.; and Momsen, Marc F., 3,648,807.
- Monacelli, Walter J.: *See*—
D'Alelio, Gaetano F., 3,669,963.
D'Alelio, Gaetano F., 3,669,964.
D'Alelio, Gaetano F., 3,700,671.
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Monaco, Alfred; and Monaco, Arthur L., 3,690,225.
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Acquadro, Edward W.; and Monahan, Donald F., 3,706,973.
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Dischert, Robert Adams; and Monahan, John Francis, 3,684,825.
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Finke, Eugene W., 3,650,452.
Gregory, Walter D., 3,703,044.
Smith, Thomas M.; and Gregory, Walter D., 3,706,626.
Weiland, Norman R.; and Finke, Eugene W., 3,650,451.
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Koch, Charles Peter, 3,677,190.
Watson, John, 3,693,392.
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- Monari, Orlando: *See*—
Ignelzi, Antonio; and Monari, Orlando, 3,690,095.
- Monark-Crescent Aktiebolag: *See*—
Nordstrand, Leif Roland, 3,656,691.
- Moncher, Frank L.: *See*—
Riordan, Hugh E.; and Moncher, Frank L., 3,664,713.
Rozmus, Walter J., 3,680,212.
- Mondi Pharma Establishment: *See*—
Milani, Davide, 3,646,030.
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- Monek, James J.: *See*—
Rehhauser, Frederick V.; Earnest, Elmer Dean; Bock, Robert V.; Gerbstadt, Frederick H.; and Monek, James J., 3,665,421.
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Mones, Harri; and Mones, Walter, 3,697,062.
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Hamblyn, Stephen Mark Lesley; Money, Anthony Patrick; Mackinnon, Ian Malcolm; and Trotter, John Edmund, 3,706,652.
- Money, Richard K.: *See*—
Harbur, Delbert R.; Anderson, John W.; and Money, Richard K., 3,660,075.
- Monforts, A.: *See*—
Reiners, Franz; and Walk, Georg, 3,643,533.
Reiners, Franz; and Walk, Georg, 3,682,025.
Walk, Georg, 3,691,613.
- Monfroy, Henri: *See*—
Galves, Jean-Pierre; Monfroy, Henri; and Reboul, Jean-Philippe, 3,706,899.
- Mongault, Jacques: *See*—
Launay, Jacques; and Mongault, Jacques, 3,683,961.
- Mongini-Tamagnini, Carla: *See*—
Gaggero, Giancarlo; Mongini-Tamagnini, Carla; and Settiani, Antoine, 3,700,162.
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- Monier, John L.: *See*—
Lasswell, Tull C.; and Monier, John L., 3,635,369.
- Monier Research & Development Pty. Ltd.: *See*—
Dimmock, Eric P., 3,670,869.
- Monitor Cabinets; a division of Comerco, Inc.: *See*—
Bucholz, Allan A., 3,695,190.
- Moniz, William B.: *See*—
Britt, A. D.; and Moniz, William B., 3,664,985.
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Swanwick, Barry Frederick, 3,657,905.
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Loh, Louis S.; Monnens, Jacques H.; and Raviv, Josef, 3,701,108.
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Schmid, Hans, 3,685,846.
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Chernow, Michael, 3,698,044.
- Monogram Ice Company, Inc.: *See*—
Newstader, Robert, 3,661,353.
- Monogram Industries, Inc.: *See*—
Kemper, James M., 3,634,891.
Kemper, James Morgan, 3,662,888.
Roberts, George C.; and Dotson, Donald A., 3,675,774.
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Ehrlich, Donald J., 3,681,883.
Ehrlich, Donald J., 3,692,349.
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- Stoltz, Andries Johannes, 3,659,392.
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- Ratowsky, Simon, 3,682,547.
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- Higginbotham, William W., and Branaham, Charles L., 3,649,043.
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- Higginbotham, William W., 3,653,676.
- Higginbotham, William W., 3,691,336.
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- Fader, John H.; Keijzer, Johan H.; and Graulus, Marcel J. R., 3,687,480.
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- Monroe, Kenneth E.: See—
- Harmon, Samuel T., Jr.; and Monroe, Kenneth E., 3,646,448.
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- Monroe, Paul Peter. Gated permanent magnet motor. 3,670,189, 6-13-72, Cl. 310-46.000.
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- Monroe, Robert C.: See—
- Davidson, Eugene M.; and Monroe, Robert C., 3,684,398.
- Monroe, Roger A.: See—
- Campbell, Ronald R.; and Monroe, Roger A., 3,641,277.
- Rodriguez, Juan A.; and Monroe, Roger A., 3,662,365.
- Monrolin, Jean Louis: See—
- Lautier, Alex Honore; and Monrolin, Jean Louis, 3,668,570.
- Monsanto Australia Limited: See—
- Buchanan, Alan D., 3,677,986.
- Holan, George, 3,642,910.
- Monsanto Chemical Company: See—
- Irani, Riyad R.; and Roberts, H. Evan, 3,671,644.
- Monsanto Chemicals (Australia) Limited: See—
- Holan, George; and Samuel, Eva Lea, 3,655,688.
- Monsanto Chemicals Limited: See—
- Ayad, Kamal Naguib, 3,639,663.
- Ayad, Karl, 3,634,439.
- Ayad, Karl, 3,641,042.
- Bell, Cyril Ove Robert; and Jones, Neville Murray, 3,706,665.
- Brown, Joseph P., 3,682,944.
- Brown, Joseph Patrick; and Foster, William Rees, 3,639,302.
- Brown, Joseph Patrick, 3,697,656.
- Burt, Patrick V., 3,696,060.
- Chilton, Henry Thomas Joseph; Everest, David Anthony; and Sayce, Ian George, 3,642,453.
- Chilton, Henry Thomas Joseph, 3,654,105.
- Chilton, Henry Thomas Joseph; and Lumley, Gwilym Ivor, 3,707,467.
- Feldman, Peter Blandford, 3,692,450.
- Foster, William Rees; and Brown, Joseph Patrick, 3,639,305.
- Heald, Charles Robert, 3,637,538.
- Long, Frank; and Ensor, Gordon R., 3,634,130.
- Long, Frank; and Ayad, Kamal Naguib, 3,697,251.
- McCoy, John Gerald; and Foster, William Bees, 3,694,176.
- Taylor, Percy Ronald, 3,645,767.
- Tripp, Terence Gordon, 3,645,865.
- Volans, Peter, 3,679,111.
- Weight, Donald, 3,643,353.
- Monsanto Company: See—
- Adams, John S., Jr.; and Gerwitz, David L., 3,642,895.
- Albert, Milton P.; and Scott, Milton J., 3,632,317.
- Alexander, Stephen H., 3,649,432.
- Alt, Gerhard H., 3,639,627.
- Alt, Gerhard H., 3,658,900.
- Alt, Gerhard H., 3,671,214.
- Alt, Gerhard H., 3,674,459.
- Alt, Gerhard H., 3,699,101.
- Andersen, Harry M.; Morris, David C.; and Tolbert, Tommy L., 3,655,863.
- Andersen, Harry M.; and Calfee, John D., 3,658,748.
- Anderson, Carl S.; Bittle, David F.; Veazey, Thomas M.; and Woolen, Robert G., 3,642,733.
- Anderson, George J.; and Dahms, Ronald H., 3,637,429.
- Anderson, George J.; and Dahms, Ronald H., 3,652,477.
- Anderson, George J.; and Dahms, Ronald H., 3,691,121.
- Anderson, George J.; and Dahms, Wilbraham-Ronald, 3,703,494.
- Anderson, Richard M.; and Heimsch, Robert A., 3,656,951.
- Arrant, Kearney D., 3,674,165.
- Arrant, Kearney D., 3,695,222.
- Aykanian, Ardasha A., 3,658,973.
- Bach, Hartwig C., 3,637,534.
- Bach, Hartwig C.; and Hinderer, Helmuth E., 3,642,902.
- Bach, Hartwig C., 3,644,283.
- Bach, Hartwig C.; and Hinderer, Helmuth E., 3,644,328.
- Bach, Hartwig C., 3,660,361.
- Bach, Hartwig C.; and Hinderer, Helmuth E., 3,697,478.
- Bach, Hartwig C., 3,702,846.
- Baer, Massimo; and Campbell, Joseph O., 3,635,752.
- Baer, Massimo; and Campbell, Joseph O., 3,635,879.
- Baer, Massimo; and Campbell, Joseph O., 3,671,378.
- Baer, Massimo; and Campbell, Joseph O., 3,671,384.
- Baer, Massimo, 3,673,282.
- Baker, Joseph W., 3,642,892.
- Baker, Joseph W.; and Bachman, Gerald L., 3,673,200.
- Baker, Joseph W.; and Howe, Robert K., 3,691,227.
- Balske, Robert J., 3,662,065.
- Barlow, Paul D.; and Marshall, John L., Jr., 3,636,601.
- Beaulieu, Raymond D., 3,677,979.
- Beaulieu, Raymond D., 3,678,101.
- Beeman, Everett C., 3,684,120.
- Beer, Ludwig A., 3,636,138.
- Benson, Royal H., 3,660,036.
- Benson, Royal H., 3,673,100.
- Benson, Royal H.; and Bodre, Robert J., 3,679,366.
- Bergomi, Joseph G., Jr.; Dill, Dale R.; and Graham, Paul R., 3,665,060.
- Bergomi, Joseph G., Jr., 3,700,492.
- Bills, James L., 3,634,530.
- Bills, James L., 3,647,840.
- Birum, Gail H.; and Matthews, Clifford N., 3,654,372.
- Birum, Gail H.; and Matthews, Clifford N., 3,655,766.
- Blackburn, William A.; and Stevenson, Philip J., 3,654,063.
- Blake, Edward S., 3,706,796.
- Blance, Robert B.; and Gardner, Donald, 3,632,412.
- Blance, Robert B.; and Gardner, Donald M., 3,632,413.
- Bodre, Robert J.; and Pinkerton, Kirby Allan, 3,663,263.
- Bollinger, Frederic G.; and D'Amico, John Joseph, 3,687,653.
- Boon, George B.; and Pittenger, Evan W., 3,649,466.
- Boon, George B., 3,650,319.
- Bourget, Robert L.; and Reejhsinghani, Nandlal S., 3,652,526.
- Boustany, Kamel, 3,640,976.
- Boustany, Kamel; and D'Amico, John Joseph, 3,689,467.
- Boustany, Kamel; and Coran, Aubert Yaucher, 3,697,364.
- Bowling, George W.; Conlisk, Peter J.; and Lenzen, Kenneth H., 3,691,712.
- Bray, John R.; and McKinney, Perry F., 3,679,873.
- Brignac, Edmond P.; Smith, Billy E.; Smith, Wallace W.; and Solo, Emilio J., 3,651,201.
- Brinkman, George H., Jr., 3,668,169.
- Brooks, Gene A., 3,641,807.
- Bryan, Roland J., Jr., 3,637,552.
- Bump, Charles K.; and Hahn, Frank J., 3,666,832.
- Burd, John W., 3,675,619.
- Butler, Robert G.; Carter, Don E.; and Latinen, George A., 3,700,247.
- Carlson, Emil H.; Hammann, William C.; and Schisla, Robert M., 3,666,827.
- Carroll, Robert L., 3,686,290.
- Casey, Edward A.; and Huggins, James M., 3,639,291.
- Cavender, James V., Jr., 3,666,745.

- Cavender, James V., Jr., 3,686,160.
- Chupp, John P.; and Balske, Robert J., 3,639,592.
- Chupp, John P.; and Balske, Robert J., 3,657,427.
- Chupp, John P., 3,661,969.
- Chupp, John P., 3,701,807.
- Chupp, John Paul, 3,698,886.
- Chupp, John Paul, 3,698,887.
- Clark, Frank S.; and McHugh, Kenneth L., 3,634,521.
- Clark, Frank S., 3,677,944.
- Clark, Frank S., 3,704,277.
- Clarke, Fredric B.; and Lyons, John W., 3,669,893.
- Coaker, Antony W. M.; and Gross, Richard C., 3,666,510.
- Cook, William H., 3,668,096.
- Coran, Aubert Y., 3,637,591.
- Coran, Aubert Y.; and Vineyard, Billy D., 3,677,726.
- Coran, Aubert Y.; Kerwood, Joseph E.; and Trivette, Chester D., Jr., 3,681,356.
- Coran, Aubert Y.; and Vineyard, Billy D., 3,706,667.
- Coran, Aubert Yaucher; and Kerwood, Joseph Edward, 3,686,169.
- Crixell, Arthur R., 3,672,644.
- Cronkhite, Paul W., 3,661,253.
- Crovatt, Lawrence W., Jr.; and Durant, Dennis J., 3,654,235.
- Crovatt, Lawrence W., Jr.; and Garrett, Ullman C., Jr., 3,666,731.
- Dahms, Ronald H.; and Anderson, George J., 3,637,430.
- Dalton, William O.; and Tremontozzi, Quirino A., 3,652,721.
- D'Amico, John Joseph; and Webster, Sidney T., 3,632,550.
- D'Amico, John Joseph; and Mullins, Darrell Dexter, 3,642,804.
- D'Amico, John Joseph, 3,644,464.
- D'Amico, John Joseph, 3,651,074.
- D'Amico, John Joseph, 3,652,256.
- D'Amico, John Joseph, 3,658,828.
- D'Amico, John Joseph; and Gerwitz, David L., 3,663,709.
- D'Amico, John Joseph; and Webster, Sidney T., 3,668,254.
- D'Amico, John Joseph, 3,681,303.
- D'Amico, John Joseph, 3,692,770.
- Danly, Donald E.; and McWhorter, Robert W., 3,649,511.
- Danly, Donald E.; and Patterson, Andrew M., Jr., 3,660,258.
- Danly, Donald E.; and McWhorter, Robert W., 3,660,259.
- Darlington, Walter A.; and Ludvik, George F., 3,657,433.
- Darlington, Walter A.; and Chupp, John P., 3,674,849.
- Decker, George E., 3,681,980.
- Deex, Oliver de S.; and Fallwell, William F., Jr., 3,637,566.
- Dew, Jimmy S., 3,644,254.
- Dixon, William D., 3,671,531.
- Dixon, William D., 3,699,110.
- Dobinson, Frank; and Saunders, James H., 3,697,486.
- Dobo, Emerick J. Cary; Kim, Don W.; and Mallonee, William C., 3,705,068.
- Downs, Arley L., 3,642,736.
- Duggan, John C., 3,660,342.
- Dyoff, David R.; and Ruest, Dennis A., 3,632,662.
- Dyoff, David R., 3,687,695.
- Early, Jack D.; and Chupp, John P., 3,636,038.
- Early, Jack D.; and Chupp, John P., 3,636,107.
- Early, Jack D.; and Chupp, John P., 3,639,475.
- Emerson, Paul D.; Davis, S. Jack; Oatfield, John C.; Engelman, Fred H.; and Bartee, Charles E., 3,633,632.
- Erpelding, William J., Jr., 3,688,294.
- Erwin, Eugene S.; and Marco, Gino J., 3,658,962.
- Fallwell, William F., Jr., 3,647,615.
- Feiler, William A.; and Shen, Chung Yu, 3,687,992.
- Feiner, Maria; Gubler, Michel; and Guillon, Joseph, 3,677,942.
- Field, Gerald A., 3,633,779.
- Fields, Joseph E.; and Johnson, John H., 3,655,509.
- Fisher, Arthur Orman, 3,649,187.
- Fitzgerald, Warren E.; Knudsen, John P.; and Brock, Jessie O., 3,671,619.
- Fitzhugh, Andrew F.; and Snelgrove, James A., 3,634,301.
- Fitzhugh, Andrew F.; and Huck, Rodney M., 3,639,330.
- Ford, Emory A.; and Nemphos, Speros P., 3,663,656.
- Franz, John E., 3,674,802.
- Franz, John E., 3,699,115.
- Fricke, Louis H., Jr., 3,696,304.
- Gale, John A., 3,663,055.
- Gash, Virgil W., 3,681,440.
- Gebhart, Herbert J., Jr.; and Makin, Earle C., Jr., 3,701,812.
- Gee, Abron B., 3,651,222.
- Gerwitz, David L.; and Chupp, John P., 3,639,591.
- Gidge, Lester, 3,671,709.
- Gieseking, Carl W.; and Sullivan, James D., 3,647,752.
- Goldberg, Jack; and Fricke, Louis H., Jr., 3,651,333.
- Goldberg, Jack, 3,671,953.
- Gothard, Edwin S.; and Calfee, John D., 3,637,457.
- Gottily, Arthur L., 3,650,493.
- Graham, Paul R.; and Ottinger, August F., 3,632,424.
- Graham, Paul R.; and Ottinger, August F., 3,632,425.
- Green, Robert B.; Newsom, Raymond A.; and Tromblee, Gene L., 3,689,215.
- Griffin, Leonard E., 3,672,727.
- Gruber, Bernard A., 3,653,851.
- Gruber, Bernard A., 3,676,293.
- Hacklander, Egon H.; Hirshfeld, Julian J.; and Reuben, Bertie J., 3,706,529.
- Hamm, Philip C., 3,671,635.
- Hamm, Philip C.; and Speziale, Angelo John, 3,690,864.
- Hammann, William C.; and Hobbs, Charles F., 3,657,370.
- Harken, Russel D., 3,689,418.
- Harris, Darrell M., 3,635,757.
- Haynes, Richard T.; Langguth, Robert P.; and Liss, Raymond L., 3,634,267.
- Hedrick, Ross M.; and Mowry, David T., 3,637,491.
- Henrici, Gisela Henrici; and Martin, Salvador Olive, 3,647,902.
- Herzog, Arno Henry; Caldwell, James F.; Schmidt, John George; and Lim, Enghua, 3,636,618.
- Hirshfeld, Julian J.; and Reuben, Bertie J., 3,645,780.
- Hirshfeld, Julian J.; and Reuben, Bertie J., 3,671,292.
- Hirshfeld, Julian J.; Reuben, Bertie J.; and Hacklander, Egon H., 3,682,582.
- Hobbs, Charles F.; and Wilson, James Dennis, 3,655,690.
- Hollrah, Glennon H., 3,686,413.
- Holmer, Donald A.; and Pickett, Oscar A., Jr., 3,651,022.
- Howe, Frederick J.; and Jimenez, Mario E., 3,636,696.
- Howe, Robert K., 3,674,460.
- Howe, Robert K., 3,702,861.
- Huck, Rodney M.; and Le Blanc, John R., 3,678,008.
- Huck, Rodney M., 3,678,103.
- Hudson, Robert B.; Mesmer, Robert E.; and Rose, Roger A., 3,650,686.
- Hudson, Robert B., 3,650,961.
- Hulstein, Calvin, 3,676,039.
- Hyndman, Harry L., 3,700,778.
- Ingram, Woodrow Hayes, II, 3,666,694.
- Irani, Riyad R., 3,642,979.
- Jaworski, Ernest G., 3,671,212.
- Johnson, John H.; and Richard, William R., Jr., 3,655,593.
- Jope, Bruce T.; and Phillips, Alan R., 3,640,666.
- Juhl, William G.; Robinson, Jacques D.; and Trafton, John G., III, 3,663,637.
- Juhl, William G.; and Libers, Roland, 3,670,041.
- Katchalski, Ephraim; Goldstein, Leon; Levin, Yehuda; and Blumberg, Shmaryahu, 3,706,633.
- Kempson, George C.; and Gilbert, Arthur N., 3,682,476.
- Kerst, Al F., 3,645,918.
- Kerst, Al F., 3,645,919.
- Kerst, Al F., 3,646,133.
- Kerst, Al F., 3,654,230.
- Kerst, Al F., 3,658,890.
- Kerst, Al F., 3,661,857.
- Kerst, Al F., 3,664,975.
- Kerst, Al F., 3,705,191.
- Kerwood, Joseph Edward, 3,645,987.
- Kichline, Thomas P.; and Scharpf, Lewis G., 3,635,733.
- Kichline, Thomas P.; and Scharpf, Lewis G., 3,692,630.
- Kidwell, Roger L., 3,686,282.
- Kim, Dong W., 3,676,244.
- Kim, Keun Young; and Shaver, Kenneth J., 3,647,371.
- King, Henry L.; Ringwald, Eugene L.; and Randall, James C., 3,668,187.
- King, Henry L.; Ringwald, Eugene L.; and Randall, James C., 3,668,188.
- King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., 3,669,925.
- King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., 3,669,933.
- King, Henry L.; Ringwald, Eugene L.; and Randall, James C., 3,669,935.
- King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., 3,671,494.
- King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., 3,671,495.
- King, Henry L.; Ringwald, Eugene L.; and Randall, James C., 3,684,768.
- King, Thomas M.; and Vandersall, Howard L., 3,654,151.
- King, Thomas M.; and Vandersall, Howard L., 3,657,134.
- Koons, Russell E., 3,703,393.
- Kowalski, Xavier, 3,645,670.
- Kowalski, Xavier, 3,671,447.
- Kowalski, Xavier, 3,671,448.
- Kowalski, Xavier, 3,706,634.
- Kowalski, Xavier, 3,706,635.
- Lannert, Kent P., 3,704,320.
- Layman, Lee R., 3,685,671.
- Layman, Lee R., 3,695,804.
- Le Blanc, John R., 3,668,164.
- Le Blanc, John R., 3,682,762.
- Le Grand, Richard D., 3,644,954.
- Lee, Yoon Chai; and Tremontozzi, Quirino A., 3,644,577.
- Lee, Yoon Chai, 3,671,607.
- Lippman, Alfred E., 3,636,102.
- Lonning, Thor J. G., 3,668,041.

Lovett, Gordon H.; and Rambin, Ronald E., 3,636,067.
 Lovett, Gordon H.; and Rambin, Ronald E., 3,636,068.
 Ludvik, George F.; and Darlington, Walter A., 3,692,915.
 Luecken, John J., 3,636,090.
 Maier, Ludwig, 3,632,649.
 Maier, Ludwig, 3,639,281.
 Maier, Ludwig, 3,681,126.
 Maier, Ludwig, 3,689,348.
 Maier, Ludwig, 3,701,817.
 Mallonee, William C.; and Laverette, Samuel R., 3,633,256.
 Marco, Gino J., 3,697,659.
 Martins, Joseph G.; and Ashley, Kenneth F., 3,650,999.
 Mathews, Marion J., III; and Campbell, Charles R., 3,636,096.
 Matzner, Edwin A., 3,632,661.
 Matzner, Edwin A.; and Mitchell, Robert S., 3,654,169.
 Maute, Robert L., 3,686,263.
 McCown, Joseph M., 3,634,042.
 McGill, Charles H., 3,641,626.
 McLeod, Richard K., 3,676,515.
 Meyer, Holger, 3,661,911.
 Mich, Thomas F.; and Mueller, Werner H., 3,636,099.
 Miller, Robert E., 3,663,493.
 Miller, Robert E., 3,669,841.
 Miller, Robert E., 3,674,509.
 Miller, Robert E., 3,685,998.
 Miller, Robert E., 3,697,284.
 Minnie, Armand F., 3,647,346.
 Mont, George E.; and Cohen, Saul M., 3,644,594.
 Morcom, Richard James, 3,633,322.
 Morgan, Herbert S., Jr., 3,642,706.
 Morgenthaler, William W., 3,634,234.
 Morita, Eiichi, 3,644,268.
 Morita, Eiichi, 3,686,214.
 Mottus, Edward H.; and Ort, Morris R., 3,674,766.
 Mottus, Edward H.; and Ort, Morris R., 3,677,911.
 Mottus, Edward H.; and Ort, Morris R., 3,700,710.
 Mueller, Werner H.; Hicks, John J., Jr.; and Campbell, Charles R., 3,636,100.
 Mueller, Werner H.; Campbell, Charles R.; and Hicks, John J., Jr., 3,654,355.
 Mullins, Darrell Dexter, 3,646,029.
 Newallis, Peter E.; Nuffer, Hans L.; and Chupp, John P., 3,691,276.
 Newsom, Raymond A.; McLeod, Richard Kenneth; and Ruland, Norman L., 3,702,811.
 Nickerson, Ralph F., 3,632,786.
 Nickerson, Ralph F.; and Weymouth, Harold D., 3,700,611.
 Nielsen, Lawrence E.; and Fields, Joseph E., 3,632,792.
 Nielsen, Lawrence E.; and Fields, Joseph E., 3,652,491.
 Nowotny, Kurt A.; and Street, Robert W., 3,644,209.
 Nowotny, Kurt A., 3,651,072.
 Oftedahl, Marvin L., 3,635,736.
 Olin, John F., 3,637,847.
 Olin, John F., 3,655,755.
 Olin, John F., 3,663,200.
 Otstot, Roger S.; and Mottern, John W., 3,645,657.
 Ottinger, August F.; Merchant, Morris V.; and Graham, Paul R., 3,658,579.
 Ottinger, August F.; and Graham, Paul R., 3,671,479.
 Pao, Robert K. C.; and Fricke, Louis H., Jr., 3,663,833.
 Partos, Richard D.; and Darlington, Walter A., 3,632,758.
 Patel, Ravindra P., 3,691,016.
 Patron, Luigi; and Lo Monaco, Sergio, 3,681,311.
 Penquite, Charles R.; and Barker, George E., 3,667,914.
 Phillips, Wendell Gary, 3,694,434.
 Phillips, Wendell Gary, 3,702,361.
 Plischke, LeMoine W., 3,663,272.
 Preston, Jack, 3,632,548.
 Prill, Erhard J., 3,671,218.
 Privott, Wilbur J., Jr.; and Sargent, Michael R., 3,692,089.
 Rapko, John N., 3,684,779.
 Ratts, Kenneth Wayne, 3,644,639.
 Ratts, Kenneth Wayne, 3,654,344.
 Ray, Louis F., 3,655,357.
 Reilly, Joseph R., 3,640,671.
 Reisman, Abraham J.; and Wilkinson, Thomas B., III, 3,687,767.
 Reisman, Abraham J.; and Wilkinson, Thomas B., III, 3,697,365.
 Reynolds, John H., 3,705,084.
 Ridgway, James S., 3,645,983.
 Ridgway, James S.; and Pickett, Oscar A., Jr., 3,647,761.
 Ridgway, James S., 3,654,236.
 Ridgway, James S., 3,668,190.
 Ridgway, James S.; King, Henry L.; and Pickett, Oscar A., Jr., 3,674,752.
 Riley, Myrre R., 3,648,451.
 Riley, Myrre R., 3,676,992.
 Riordan, Frank S., Jr., 3,687,752.
 Rose, Roger A.; and Fox, Thomas U., 3,684,439.
 Sahni, Atam P., 3,632,539.
 Sanford, Emil Ed., 3,693,004.
 Scharpf, Lewis G., Jr., 3,672,956.
 Scharpf, Lewis G., Jr., 3,672,957.
 Scharpf, Lewis G., Jr., 3,687,815.
 Schierding, Royce G.; and Tolbert, Tommy L., 3,676,916.
 Schierding, Royce G.; and Tolbert, Tommy L., 3,683,485.
 Schmidt, John G., 3,658,584.
 Schmidt, John George; and Lim, Enghua, 3,636,617.
 Schmidt, John George, 3,660,156.
 Schnur, Joel M.; and Huck, Rodney M., 3,637,561.
 Schnur, Joel M., 3,640,932.
 Scholl, Robert F., 3,670,615.
 Schomburg, Noel L., 3,679,592.
 Schuck, James M.; and Wildi, Bernard S., 3,679,653.
 Schultz, Robert G., 3,689,533.
 Schumacher, Ignatius; and Baker, Joseph W., 3,632,829.
 Scott, Milton J.; and Stenzel, Jurgen A., 3,650,732.
 Sears, James Kern, 3,652,312.
 Sears, Paul G.; and Vandersall, Howard L., 3,645,675.
 Self, Joseph A.; Sovcreigh, Gerald W.; and Peacock, Alton E., 3,663,352.
 Serlin, Irving, 3,661,617.
 Shaw, Charles H.; and Strauss, Robert G., 3,635,632.
 Shelby, Richard K., 3,682,135.
 Shen, Chung Yu; and Stahlheber, Norman Earl, 3,684,744.
 Sinusas, Robert R., 3,668,462.
 Skibo, Andrew D.; and Woodworth, Chester L., 3,647,344.
 Smith, Andrew I.; and Bryan, Roland J., Jr., 3,696,078.
 Smith, Lowell R.; and Speziale, Angelo John, 3,655,646.
 Smith, Terrill D., 3,679,587.
 Smith, Terrill D., 3,701,732.
 Smith, Terrill D., 3,701,733.
 Somich, Robert T., 3,674,708.
 Spain, Raymond G., 3,639,197.
 Speziale, Angelo; and Smith, Lowell R., 3,665,023.
 Speziale, Angelo John; and Smith, Lowell R., 3,642,863.
 Speziale, Angelo John; and Smith, Lowell R., 3,642,893.
 Stenzel, Jurgen A., 3,677,741.
 Stoffel, Paul J.; and Beaver, David J., 3,697,252.
 Street, Robert W., 3,657,128.
 Sullivan, Alfred Bay; and Campbell, Robert Henry, 3,635,918.
 Sullivan, Alfred Bay, 3,705,923.
 Summers, Charles Gene; and Young, Evan Johnson, 3,632,553.
 Sundbeck, Edward H., 3,694,872.
 Tapp, James S.; Colwell, Robert E.; and Toney, Myron K., 3,661,864.
 Taylor, Keith M., 3,670,006.
 Taylor, Keith M., 3,670,008.
 Taylor, Keith M., 3,670,009.
 Taylor, Keith M., 3,678,090.
 Taylor, Keith M., 3,686,267.
 Tenner, Arnold J., 3,697,632.
 Terpstra, Marrine A., 3,705,198.
 Thompson, Quentin E.; Reid, Stanley L.; and Weiss, Richard W., 3,684,711.
 Thompson, Quentin E., 3,706,664.
 Timbie, Robert W., 3,673,783.
 Trivette, Chester D., Jr., 3,637,844.
 Tucker, Huel C., 3,634,653.
 Tyssee, Donald A.; and Petrovich, John P., 3,635,951.
 Tyssee, Donald A.; and Petrovich, John P., 3,635,952.
 Tyssee, Donald A., 3,636,053.
 Vineyard, Billy D., 3,647,691.
 Vineyard, Billy D., 3,658,836.
 Wallis, Craig; and Melnick, Joseph L., 3,651,213.
 Weeks, Lloyd E., 3,696,191.
 Weil, Raoul B., 3,672,221.
 Weingarten, Harold I.; White, William A.; and Chupp, John P., 3,636,110.
 Weinrich, Bernard W.; and Boyce, David C., 3,701,830.
 Wesp, George L., 3,649,582.
 Westman, Thomas L., 3,649,457.
 Wharton, Ferdinand D.; Johnson, John H.; Fields, Joseph E.; and Machlin, Lawrence J., 3,655,869.
 Wildi, Bernard S.; and Westman, Thomas L., 3,634,258.
 Wolfinger, Mark Dennis, 3,705,135.
 Wygant, James C.; Anderson, Richard M.; and Prill, Erhard J., 3,642,870.
 Wygant, James C.; Anderson, Richard M.; and Prill, Erhard J., 3,644,493.
 Wygant, James C., 3,652,418.
 Wygant, James C.; Anderson, Richard M.; and Prill, Erhard J., 3,655,726.
 Yancik, Joseph J.; Schulze, Roy E.; and Rydland, Paul H., 3,640,784.
 Yates, William F.; Downs, Ronald O.; and Burleson, James C., 3,639,391.
 Young, Raymond H., Jr.; Markhart, Albert H.; and Martins, Joseph G., 3,650,799.
 Young, Raymond H., Jr., 3,685,990.
 Monsanto Company, mesne: See—

Dunn, Stanley A.; Rakestraw, Lawrence F.; and Cunningham, Robert Ernest, 3,658,979.
 Haley, David J.; Cunningham, Robert E.; and Privott, Wilbur J., Jr., 3,677,481.
 Mead, Carver A.; and McCaldin, James O., 3,650,823.
 Monsanto Enviro-Chem Systems, Inc.: See—
 Norton, Leslie K., 3,689,397.
 Monsanto Europe S.A., mesne: See—
 Andros, Arthur A., 3,674,512.
 Monsanto Research Corporation: See—
 Bedell, Stanley F., 3,662,802.
 Beltrami, Henry P.; and Dale, James W., 3,702,793.
 Binning, Robert C.; Parts, Leo P.; Percsie, Robert J.; and Rodenburg, Margaret L., 3,699,210.
 Byrne, Joseph J., 3,687,747.
 Cornell, John H., 3,700,426.
 Dale, James W., 3,663,183.
 Deibert, Max C., 3,676,222.
 Glasgow, David Gerald; and Follett, Archie E., 3,702,839.
 Johns, Ira B., 3,670,018.
 Parts, Leo P.; and Hardy, Edgar E., 3,696,742.
 Stemmiski, John R., 3,674,822.
 Monscelli, Walter J.: See—
 D'Alelio, Gaetano F., 3,637,685.
 Monsel, Philippe: See—
 Costa, Charles; Loupere, Andre; Monsel, Philippe; and Schmitt, Bertrand, 3,679,272.
 Monser, George J., to Raytheon Company. Fractional turn helical antenna. 3,641,580, 2-8-72, Cl. 343-895.
 Monson, Veldon A. Portable toaster. 3,650,202, 3-21-72, Cl. 99-391.
 Monson, William Joye, to Borden, Inc. Growth stimulating animal feeds. 3,636,195, 1-18-72, Cl. 424-115.
 Monsun-Tison AB: See—
 Lagerqvist, Roger; and Stenlund, Stig, 3,677,141.
 Stenlund, Stig Gote, 3,679,276.
 Mont, George E.; and Cohen, Saul M., to Monsanto Company. Polyvinyl acetal interlayers containing copolymeric additives. 3,644,594, 2-22-72, Cl. 260-901.
 Montecatini Edison S.p.A.: See—
 Pregaglia, Gianfranco; Agamennone, Marco; Santangelo, Nicola; and Matzuzi, Guglielmo, 3,660,480.
 Montacie, Marcel, to Union Industrielle Blanzoy-Ouest. Tool having a sweeping movement for continuous boring or cutting machine. 3,644,000, 2-22-72, Cl. 299-86.
 Montacie, Marcel, to Union Industrielle Blanzoy-Ouest. Self-loading conveyor. 3,682,288, 8-8-72, Cl. 198-7,000.
 Montag, Margaret J.: See—
 Ropiequet, Richard L.; and Montag, Margaret J., 3,654,017.
 Montagano, Anthony. Head rest attachment for wheel chairs. 3,674,310, 7-4-72, Cl. 297-397,000.
 Montagne, Jean B., to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Tread for heavy-duty radial-carcass tire. 3,664,402, 5-23-72, Cl. 152-209,000.
 Montagne, Johannes Th. W.; and Dunn, Christopher L., to Shell Oil Company. Nematicidal phosphorylated benzofurazans. 3,642,988, 2-15-72, Cl. 424-200.
 Montagne, Johannes Th. W.; and Van Tongeren, Willem A., to Shell Oil Company. Molluscicidal oxime carbamates. 3,663,707, 5-16-72, Cl. 424-300.
 Montagnon, Paul A. F.: See—
 Buissiere, Jean; Colobert, Louis; and Montagnon, Paul A. F., 3,690,836.
 Montagu, Roland P., to Olympic Overseas, Inc. Helicopter with rotor having metal ring for flywheel effect. 3,704,540, 12-5-72, Cl. 46-75,000.
 Montague, Albert. Removable sewer conduit flow meter. 3,633,417, 1-11-72, Cl. 73-231.
 Montague, Bernard R.: See—
 Leyburn, Derek; Montague, Bernard R.; and Mattila, Henry K., 3,670,109.
 Leyburn, Derek; Montague, Bernard R.; and Mattila, Henry K., 3,674,940.
 Montague Burton Limited: See—
 Jacobson, Sydney; Knowles, Denis; and Parker, Derek, 3,674,592.
 Montague Machine Company: See—
 Alexander, Donald K., 3,690,568.
 Montalbano, Albert F.: See—
 Forsy, Edward Louis; Lofftus, Leroy A.; Malueg, Richard Milton; and Montalbano, Albert F., 3,703,999.
 Montalbano, Anthony Philip: See—
 Teague, Walter Dorwin, Jr.; Montalbano, Anthony Philip; Oakes, Andrew A.; Osborne, Keith; and Susey, Peter E., 3,668,784.
 Montalvo, Edwin J. Pivoted and removable pod mounting for brakes and clutches. 3,696,900, 10-10-72, Cl. 192-70,000.
 Montanari, Lucio: See—
 Brescia, Riccardo; and Montanari, Lucio, 3,641,568.
 Montanari, Sergio. Sound effect generator with rotating magnetic disk. 3,654,399, 4-4-72, Cl. 179-100,2.

Montanwerke Walter GmbH: See—
 Mayer, Kurt, 3,675,290.
 Montarnal, Roger: See—
 Boutry, Pierre; Daumas, Jean Claude; and Montarnal, Roger, 3,692,860.
 Montblanc-Simplo GmbH: See—
 Herrring, Heinz Gunther, 3,659,954.
 Montean, John, Jr., to Ohio Moulding Corporation, The. Roof bow device. 3,700,277, 10-24-72, Cl. 296-104,000.
 Montec Corporation: See—
 Brown, Horace D., 3,702,454.
 Montecatini Edison S.p.A.: See—
 Albanese, Pietro; Benzoni, Luigi; Corain, Benedetto; and Turco, Aldo, 3,686,264.
 Bedetti, Gianfranco, 3,676,060.
 Beghelli, Benito; and Campriccoli, Pierpaolo, 3,658,937.
 Beghelli, Benito; Vacanti, Francesco; and Guerani, Giampaolo, 3,681,280.
 Boffa, Giocchino; Crotti, Argento; Pieri, Giampiero; Mangini, Angelo; and Tundo, Antonio, 3,678,053.
 Bonfardeci, Augusto, 3,652,528.
 Bonvicini, Alberto; and Cantatore, Giuseppe, 3,640,999.
 Bonvicini, Alberto; and Cantatore, Giuseppe, 3,668,278.
 Bonvicini, Alberto; and Cantatore, Giuseppe, 3,668,280.
 Bornengo, Mario; and Pasquino, Pietro, 3,644,514.
 Bressan, Giancarlo; and Gafa, Salvatore, 3,635,657.
 Caldo, Cornelio, 3,649,717.
 Caldo, Cornelio; and Cantatore, Giuseppe, 3,661,821.
 Caldo, Cornelio; Danielli, Ezio; Incollingo, Italo; and Protopatario, Francesco, 3,669,829.
 Cammarata, Italo; and Vecchio, Martino, 3,644,544.
 Caporali, Giorgio; Ferlazzo, Natale; and Giordano, Nicola, 3,691,224.
 Carraro, Giorgio; Del Vesco, Adriano; and Olindo, Santino, 3,686,299.
 Cevidalli, Guidobaldo; Ragazzini, Mario; and Modena, Mario, 3,673,156.
 Colombo, Umberto; Scacciati, Giovanni; Sironi, Giuseppe; and Vascetti, Amos, 3,649,186.
 Colombo, Umberto; Sironi, Giuseppe; Viviani, Bruno; and Colombini, Ariano, 3,649,245.
 Colombo, Umberto; Hafford, Bradford C.; and Uglietti, Giuseppe, 3,661,522.
 Credali, Lino; and Parrini, Paolo, 3,687,842.
 Credali, Lino; and Parrini, Paolo, 3,696,031.
 Dakli, Ibrahim; Demicheli, Angelo; and Gregori, Giuseppe, 3,658,913.
 de Varda, Giuseppe; and de Pava, Alberto Vajina, 3,647,673.
 De Varda, Giuseppe, 3,666,653.
 De Varda, Giuseppe, 3,700,581.
 DeGarab, Giorgio Olah; and Corfiati, Domenico, 3,634,224.
 Dubini, Mario; and Montino, Franco, 3,661,979.
 Garilli, Francesco; and Marino, Michelangelo, 3,675,489.
 Gatta, Giorgio; and Rettore, Roberto, 3,635,929.
 Giannaccari, Bindo Massimo; and Galli, Riccardo, 3,651,108.
 Longi, Paolo; Greco, Francesco; and Bernasconi, Ermanno, 3,644,306.
 Longi, Paolo; Valvassori, Alberto; Greco, Francesco; and Bernasconi, Ermanno, 3,658,770.
 Longi, Paolo; Valvassori, Alberto; Greco, Francesco; and Bernasconi, Ermanno, 3,660,364.
 Longi, Paolo; Valvassori, Alberto; Greco, Francesco; and Bernasconi, Ermanno, 3,684,782.
 Messina, Giuseppe; Montorsi, Giorgio; and Caprara, Giuseppe, 3,699,133.
 Montino, Franco, 3,658,887.
 Mortillaro, Luigi; Russo, Mario; and Guidotti, Vincenzo, 3,647,765.
 Natta, Giulio; Danusso, Ferdinando; and Ferruti, Paolo, 3,679,643.
 Ottaviana, Quintino, 3,677,689.
 Parrini, Paolo; Credali, Lino; and Chiolle, Antonio, 3,686,100.
 Pasquino, Pietro; Benzoni, Luigi; Carnisio, Giuseppe; and Colombo, Luigi, 3,697,578.
 Perugini, Giancarlo; Mercato, Giorgio; Belotti, Luigi; and Caccamo, Carmelo, 3,684,911.
 Pregaglia, Gianfranco; Agamennone, Marco; Santangelo, Nicola; and Croci, Mauro, 3,637,834.
 Pregaglia, Gianfranco; Agamennone, Marco; and Cavilli, Luigi, 3,661,932.
 Ragazzini, Mario; Caimi, Alberto; Carcano, Donato; and Gropelli, Giovanni, 3,668,167.
 Rainaldi, Nicolino; and Fatutto, Pierluigi, 3,656,553.
 Rocchi, Aldo, 3,673,093.
 Ronzoni, Isidoro; Catoni, Mario; and Chini, Pier Lodovico, 3,655,829.
 Rossi, Giorgio; Micheli, Giannantonio; and Paolucci, Paride, 3,689,522.
 Saccardo, Pietro; Trada, Gianni; Galastri, Maurizio; and Herzenberg, Jean, 3,637,637.

Santangelo, Nicola; Battiston, Giancarlo; Pregaglia, Gianfranco; Cavaterra, Enrico; and Croci, Mauro (said Santangelo, Battiston, Pregaglia and Cavaterra assors. to), 3,702,868.
Santi, Romano, 3,689,605.
Scipioni, Andrea; and Gambaretto, Giampaolo, 3,636,169.
Severini, Febo; Valvasori, Alberto; and Tavazzani, Carlo, 3,676,528.
Sianesi, Dario; and Caporiccio, Gerardo, 3,637,631.
Sianesi, Dario; Pasetti, Adolfo; and Corti, Costante, 3,650,928.
Sianesi, Dario; and Fontanelli, Renzo, 3,665,041.
Sianesi, Dario; Fontanelli, Renzo; and Caporiccio, Gerardo, 3,683,027.
Sianesi, Dario; Pasetti, Adolfo; and Corti, Costante, 3,699,145.
Sianesi, Dario; Pasetti, Adolfo; and Corti, Costante, 3,704,214.
Vecchio, Martino; Gropelli, Giovanni; and Fattore, Vittorio, 3,650,987.
Vecchio, Martino; and Cammarata, Italo, 3,652,692.
Vecchio, Martino; Cammarata, Italo; and Pattore, Vittorio, 3,679,767.
Vecchio, Martino; and Stefani, Giancarlo, 3,686,338.
Vecchio, Martino; Carraro, Giorgi; and Cammarata, Italo, 3,703,557.
Vitali, Tullio; Scrivani, Pietro; Ponci, Riccardo; Pellegrini, Giovanni; Gialdi, Franco; and Arsura, Emilio, 3,657,263.
Zilio, Gianfranco, 3,661,700.
Montecatini-Edison S.p.A.: *See—*
Cerri, Egidio, 3,654,217.
Monteiro, Arnold J.: *See—*
Zierak, Stephen J.; and Monteiro, Arnold J., 3,677,031.
Monteith, James H.: *See—*
Maiden, Donald L.; Monteith, James H.; and Carpi, Thomas D., 3,699,811.
Montepioni & Montevocchio S.p.A.: *See—*
Casagrande, Gianpaolo; De Michelis, Turno; De Rossi, Attilio; and Gnesotto, Ferdinando, 3,689,396.
Montepioni e Montevocchio S.p.A.: *See—*
Colombo, Umberto; Scacciati, Giovanni; Sironi, Giuseppe; and Vaschetti, Amos, 3,649,186.
Monterey Research Laboratory, Inc.: *See—*
Gray, Robert P.; and Beal, John O., 3,646,807.
Monterose, Henry: *See—*
Provenzano, James, Jr.; Saunders, John; and Monterose, Henry, 3,702,989.
Montes, Leopoldo F. Method of treating psoriasis with cycloheximide. 3,670,084, 6-13-72, Cl. 424-268.000.
Montesdioca, Renaldo, to Bellon Plumbing Company, Incorporated. Pipe bracket. 3,690,609, 9-12-72, Cl. 248-68.00r.
Montesi, Robert P.: *See—*
Kish, George D.; Montesi, Robert P.; and Smith, Gerald B., 3,662,450.
Montessori, Giuseppe: *See—*
Ocelli, Gian Battista; Calari, Sergio; and Montessori, Giuseppe, 3,686,632.
Montet, Jerome: *See—*
Behar, Meyer; Dal Pont, Jean-Pierre; and Montet, Jerome, 3,662,521.
Montgomery, Andrew P.; deceased (by Montgomery, Ann P.; executrix), to Philco-Ford Corporation. Automatic frequency control of voltage variable reactance tuned receivers. 3,678,183, 7-18-72, Cl. 178-5.8af.
Montgomery, Ann P.: *See—*
Montgomery, Andrew P., 3,678,183.
Montgomery, Carroll Sherman: *See—*
Miller, Phillip; and Montgomery, Carroll Sherman, 3,686,203.
Montgomery, Dean P., to Phillips Petroleum Company. Olefin disproportionation process. 3,707,579, 12-26-72, Cl. 260-683.00d.
Montgomery, Edgar L. Guitar pick. 3,699,838, 10-24-72, Cl. 84-322.000.
Montgomery, Eldwin C., to Libbey-Owens-Ford Company. Bath temperature control in float glass apparatus. 3,637,364, 1-25-72, Cl. 65-65.
Montgomery, Eldwin C., to Libbey-Owens-Ford Company. Movable restrictor tiles in float glass apparatus and method of regulating glass ribbon. 3,664,820, 5-23-72, Cl. 65-99.
Montgomery, Gary D., to Boeing Company, The. Linear sweep circuit. 3,659,115, 4-25-72, Cl. 307-228.000.
Montgomery, Harold S.: *See—*
Budnik, Roger J.; Montgomery, Harold S.; and Nutting, David J., 3,664,037.
Montgomery, Harold S.; and Nutting, David J., to Nutting Industries, Ltd. Projection apparatus for sequential timed presentation of individual frames. 3,664,562, 5-23-72, Cl. 226-76.
Montgomery, Helene Irene: *See—*
Montgomery, William T. S., 3,679,143.
Montgomery Industries International, Inc.: *See—*
Montgomery, William T. S., Jr., 3,703,231.
Montgomery, James L.: *See—*
Brown, Archer W.; Montgomery, James L.; Wienke, Charles W.; Roskowsky, Alfons; and Braddock, William A., 3,658,189.

Montgomery, James R.: *See—*
Brown, James L.; Himebaugh, Donald T.; and Montgomery, James R., 3,655,985.
Montgomery, James R.; and Struttman, Lloyd G., to Mallinckrodt Chemical Works. Closed system generation and containerization of radioisotopes for eluting a daughter radioisotope from a parent radioisotope. 3,655,981, 4-11-72, Cl. 250-106.
Montgomery, John: *See—*
Rapoza, Edward J.; Siegel, Maxwell E.; Estelle, Weems E.; Petrucci, Pasquale M.; Linarducci, Joseph S.; Hamma, John; and Montgomery, John, 3,706,499.
Montgomery, John G.: *See—*
Lofstrand, Wilton S.; and Montgomery, John G., 3,703,930.
Montgomery, Lionel C.: *See—*
Mandorf, Victor, Jr.; and Montgomery, Lionel C., 3,660,027.
Montgomery, Lionel Clayton: *See—*
Mandorf, Victor, Jr.; and Montgomery, Lionel Clayton, 3,673,118.
Montgomery, Morris M. Method of growing earthworms and plants and producing compost. 3,654,903, 4-11-72, Cl. 119-15.
Montgomery, Phillip D.: *See—*
Franz, Raymond A.; Gebhart, Herbert J., Jr.; and Montgomery, Phillip D., 3,694,518.
Montgomery, Raymond A. Carving board attachment for platter. 3,654,979, 4-11-72, Cl. 146-215.
Montgomery, Robert E.: *See—*
Amarante, Joseph A.; and Montgomery, Robert E., 3,662,743.
Montgomery, Robert M., to Radiation Incorporated. Acousto-optical signal processing system. 3,634,749, 1-11-72, Cl. 324-77.
Montgomery, Ronald Eugene; and Incho, Harry Hobart, to FMC Corporation. Mono(alkyl and alkenyl)mono-omega-alkynylaralkyl phosphonates. 3,652,741, 3-28-72, Cl. 260-956.
Montgomery, Sam R.: *See—*
Cottrell, Samuel H.; and Montgomery, Sam R., 3,664,453.
Montgomery, Thurman R. Building materials transporting and handling apparatus. 3,680,715, 8-1-72, Cl. 214-1.0qg.
Montgomery, William C., Jr.: *See—*
Lamb, Thomas W.; Lee, Robert E.; Montgomery, William C., Jr.; Orr, William R.; and Vogel, Charles B., 3,651,450.
Montgomery, William C., Jr.; and Vogel, Charles B., to Shell Oil Company. Time-shared instantaneous gain-ranging amplifier. 3,699,325, 10-17-72, Cl. 235-154.000.
Montgomery, William C., Jr.; and Vogel, Charles B., to Shell Oil Company. Multiple multiplexer gain-ranging amplifier. 3,700,871, 10-24-72, Cl. 235-154.000.
Montgomery, William Lloyd, to Bell Telephone Laboratories, Incorporated. Digital attenuator for non-linear pulse code modulation signals. 3,688,097, 8-29-72, Cl. 235-152.000.
Montgomery, William Lloyd, to Bell Telephone Laboratories, Incorporated. Echo suppression gate for digital code words including noise insertion. 3,699,273, 10-17-72, Cl. 179-170.200.
Montgomery, William T. S., to Montgomery, Helene Irene. Shavings making machines. 3,679,143, 7-25-72, Cl. 241-280.000.
Montgomery, William T. S., Jr., to Montgomery Industries International, Inc. Material feeding apparatus. 3,703,231, 11-21-72, Cl. 198-165.000.
Montgomery, William W.; and Hood, Eugene B. Laryngeal keel. 3,707,150, 12-26-72, Cl. 128-334.00r.
Month, Alfred; and Thornburg, David Lawrence, to RCA Corporation. Method of fabricating a porous tungsten body for a dispenser cathode. 3,653,883, 4-4-72, Cl. 75-212.
Monti, Anthony: *See—*
Broeg, Charles; Monti, Anthony; and Troy, John P., 3,639,169.
Monti, Anthony; Troy, John P.; and Broeg, Charles B., to SuCrest Corporation. Direct compression vehicles. 3,639,168, 2-1-72, Cl. 127-29.
Monti, Giancarlo, to Siai-Marchetti S.p.A. Universal gear coupling. 3,635,048, 1-18-72, Cl. 64-9.
Monti, Giancarlo, to Siai-Marchetti S.p.A. Planetary reduction gearing. 3,635,103, 1-18-72, Cl. 74-801.
Monti, Giancarlo, to Siai-Marchetti S.p.A. Helicopter rotor construction. 3,640,643, 2-8-72, Cl. 416-136.
Monti, Giancarlo, to Siai-Marchetti S.p.A. Helicopter rotor blade. 3,674,379, 7-4-72, Cl. 416-226.000.
Monti, Giancarlo, to Siai-Marchetti S.p.A. High-speed helicopter characterized by a lifting wing and by two engines fitted thereon. 3,698,666, 10-17-72, Cl. 244-7.00a.
Monti, Renzo J., to United States of America, Army. Adjustable, quickly releasable webbing connector. 3,676,901, 7-18-72, Cl. 24-191.000.
Montillon, Henry A.: *See—*
Bailey, Robert C.; Estes, Harry A.; James, Glen S.; Klug, James R.; Montillon, Henry A.; Myring, Verne E.; Robertson, Orville H.; Sargeant, Blaine W.; and Sorensen, Neal E., 3,679,200.
Montino, Franco: *See—*
Dubini, Mario; and Montino, Franco, 3,661,979.
Montino, Franco, to Montecatini Edison S.p.A. Process for the preparation of methyl butenoate and its derivatives. 3,658,887, 4-25-72, Cl. 260-486.

Montmollin, Rene de; Hoelzle, Gerd; Angliker, Hans-Joerg; and Peter, Richard, to Ciba Limited. Disazo dyestuffs. 3,642,764, 2-15-72, Cl. 260-153.
Montone, Liber J., to Western Electric Company, Incorporated. Measuring system. 3,679,820, 7-25-72, Cl. 178-6.000.
Montorsi, Giorgio: *See—*
Messina, Giuseppe; Montorsi, Giorgio; and Caprara, Giuseppe, 3,699,133.
Montoya, Jose M. Genua: *See—*
Solomka, Monroe M.; and Montoya, Jose M. Genua, 3,686,010.
Montpas, Henri L., to Weston Instruments, Inc. Light sensing device having a polyhedral reflector and a photo multiplier with segmented photocathode. 3,654,475, 4-4-72, Cl. 250-203.
Montross, Robert C.: *See—*
Ries, Robert G.; and Montross, Robert C., 3,656,038.
Montuori, Anthony George: *See—*
Robinson, Denis; Whelan, Richard Howard; Katz, Philip Harvey; and Montuori, Anthony George, 3,682,663.
Montz, Julius, GmbH: *See—*
Kloss, Hans-Joachim, 3,693,948.
Montzka, Thomas Alfred; and Matiskella, John Daniel, to Bristol-Myers Company. 3-Substituted-2,3,4,5,6,7,8,12b-octahydro-(1H)-(1,4) diazepina (7,1-a) isoquinolines. 3,654,281, 4-4-72, Cl. 260-286.
Moodey, Roderick K., to Lee-Norse Company. Spiral element and method for making same. 3,667,276, 6-6-72, Cl. 72-371.000.
Moodie, Donald E., to Polaroid Corporation. Unique identification card camera system with light sealed data card insertion arrangement. 3,631,773, 1-4-72, Cl. 95-1.1.
Moodie, Donald E., to Polaroid Corporation. Switch programming device with sequentially actuated switches. 3,674,965, 7-4-72, Cl. 200-153.00r.
Moodie, Donald E., to Polaroid Corporation. Photographic apparatus including removable validation plate. 3,678,818, 7-25-72, Cl. 95-1.100.
Moody, Anthony Gifford; and Symcox, Robert Owen, to Imperial Chemical Industries Limited. Acetoacetate of 2-hydroxymethyl-5-norbornene. 3,670,011, 6-13-72, Cl. 260-483.000.
Moody Aquamatic Systems, Inc.: *See—*
La Ruas, Julius, 3,699,776.
Moody, Howard B. Antenna structure. 3,689,929, 9-5-72, Cl. 343-802.000.
Moody, Mattie: *See—*
Hoogendoorn, Cornelius; Moody, Mattie; and Schwutke, Guenter H., 3,644,154.
Moody, Norman Frank, to Canadian Patents and Development Limited. Filter for compensating efficiency differences in an optical system. 3,665,191, 5-23-72, Cl. 250-86.
Moody, Renville O.: *See—*
Nanne, Silvio Edward; and Moody, Renville O., 3,700,347.
Moody, Roy A.: *See—*
Cameron, Douglas H.; Moody, Roy A.; and Thayer, Arlie J., 3,632,071.
Cavney, Jack E.; and Moody, Roy A., 3,638,169.
Cavney, Jack E.; Moody, Roy A.; and Roberson, Raymond F., 3,645,302.
Cavney, Jack E.; and Moody, Roy A., 3,660,869.
Cavney, Jack E.; and Moody, Roy A., 3,661,187.
Moody, Roy A.; and Cavney, Jack E., to Panduit Corporation. Flexible strap fastener. 3,667,710, 6-6-72, Cl. 248-71.000.
Moody, Roy A.; Sullivan, John F.; and Thayer, Arlie J., to Panduit Corporation. Connector clip. 3,668,744, 6-13-72, Cl. 24-73.0pb.
Moog Inc.: *See—*
Grundmann, John F., 3,681,726.
Hague, Robert Z.; Laucks, Howard H.; and Mastropole, Alfred J., 3,678,801.
Hawk, George W.; Geyer, Lewis H.; Mastropole, Alfred J.; and Garnjost, Kenneth D., 3,646,762.
Moog, William C., Jr., 3,639,088.
Moog Industries, Inc.: *See—*
McNeely, James A.; and Russell, Ernest R., 3,667,789.
Scheublein, William A.; Fister, Louis P.; Fitch, Lawrence H.; and Jeney, George K., 3,658,312.
Scheublein, William A., Jr.; and Fister, Louis P., 3,656,221.
Scheublein, William A., Jr.; and Fister, Louis P., 3,675,941.
Moog, William C., Jr., to Moog Inc. Case pressurization control for a positive displacement device driven hydraulically by a four-way control valve. 3,639,088, 2-1-72, Cl. 418-74.
Mooi, John: *See—*
Dalson, Milton H.; Keith, Carl D.; Mooi, John; and Pfeifferle, William C., 3,705,095.
Keith, Carl D.; Masologites, George P.; and Mooi, John, 3,660,271.
Keith, Carl D.; Masologites, George P.; and Mooi, John, 3,684,692.
Sanford, Robert A.; Mooi, John; and Rogers, Edward S., 3,679,605.
Mook, Dan Gilbert, to Eastman Kodak Company. Device for the storage and handling of photographic film or the like. 3,650,389, 3-21-72, Cl. 206-53.

Mookherjee, Braja D.: *See—*
Grossman, James D.; Mookherjee, Braja D.; De Simone, Robert; and Theimer, Ernst T., 3,679,749.
Mookherjee, Braja D., to International Flavors & Fragrances Inc. Hexahydro-1,4,9,9-tetramethyl-4,7-methanoazulenones. 3,679,750, 7-25-72, Cl. 260-586.00a.
Mookherjee, Braja D.; and Taylor, William I., to International Flavors & Fragrances Inc. Preparation of ambrettolide. 3,681,395, 8-1-72, Cl. 260-343.000.
Mookherjee, Braja D.; and Taylor, William I., to International Flavors & Fragrances Inc. Preparation of cyclohexadecanolide. 3,681,396, 8-1-72, Cl. 260-343.000.
Mookherjee, Braja D.; and Betts, Muus G. J., to International Flavors & Fragrances, Inc. Oxyccyclic pyrazines and process for preparing same. 3,684,809, 8-15-72, Cl. 260-250.00r.
Moolenaar, Robert J., to Dow Chemical Company, The. Alkali metal-alkaline earth metal hydroxides. 3,637,349, 1-25-72, Cl. 23-183.
Moon Bat Kabushiki Kaisha: *See—*
Kawano, Takuo, 3,660,872.
Kawano, Takuo, 3,680,178.
Moon, Charles L., to White Motor Corporation. Fuel injection system. 3,638,629, 2-1-72, Cl. 123-139.6.
Moon, Charles L., to White Motor Corporation. Engine coolant filter. 3,682,308, 8-8-72, Cl. 210-136.000.
Moon, Clive D.; and Neumann, Robert K. F., to Phillips Petroleum Company. Hot-melt adhesives of polyolefins containing oxime compounds or esters thereof. 3,658,755, 4-25-72, Cl. 260-45.9.
Moon, Edward Leslie: *See—*
Berkelhammer, Gerald; Asato, Goro; and Moon, Edward Leslie, 3,674,780.
Moon, Elmer: *See—*
Midulla, Giuseppe, 3,699,046.
Moon, Jacob R. Orthopedic, surgical, athletic and animal bandaging. 3,667,462, 6-6-72, Cl. 128-169.000.
Moon, Malcolm W., to Upjohn Company, The. 1,2-Pyridazinedicarboximidophosphorous insecticides. 3,706,743, 12-19-72, Cl. 260-250.00a.
Moon, Richard G.: *See—*
Tullis, Lyell C.; and Moon, Richard G., 3,653,489.
Moon, William Raymond Collins: *See—*
Brociner, Ronald Eric; and Moon, William Raymond Collins, 3,659,718.
Mooney, John J.: *See—*
Keith, Carl D.; Mooney, John J.; and Vanmansart, Louis J., 3,692,497.
Mooney, Ralph. Hinged crane boom stops having controlled braking means. 3,647,087, 3-7-72, Cl. 212-59.
Mooney, Raymond T.: *See—*
Storey, William T., II; Procter, Robert F.; Snyder, Charles H. A.; Jacob, George M.; and Mooney, Raymond T., 3,672,046.
Mooney, Robert A.: *See—*
Bell, John M.; and Mooney, Robert A., 3,691,641.
Moor, Herman L., to Braner Engineering, Inc. Rod coil press. 3,675,569, 7-11-72, Cl. 100-700.000.
Mooradian, Aram: *See—*
Alexander, Ernest John; and Mooradian, Aram, 3,687,969.
Mooradian, Aram, to Sterling Drug Inc. 3-Acetamido-1,2,3,4-tetrahydrocarbazole. 3,642,816, 2-15-72, Cl. 260-315.
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Moore & Hansen Mfg. Co.: *See—*
Moore, James F., Jr., 3,663,020.
Moore, Alan D. Flow control apparatus. 3,691,844, 9-19-72, Cl. 73-425.600.
Moore, Alexander G. Oil vaporizer. 3,649,230, 3-14-72, Cl. 48-102.
Moore, Alvin E. Light weight article. 3,670,349, 6-20-72, Cl. 9-12.
Moore, Alvin Edward. Light-weight, wreck-resistant cabin. 3,687,401, 8-29-72, Cl. 244-119.000.
Moore, Alvin G., to Hercules Incorporated. Fluid jet deflection type instrument with jet buoyancy control. 3,631,729, 1-4-72, Cl. 73-516.
Moore, Alvin G., to Hercules Incorporated. Bimorph sensor for electrically measuring pressure changes. 3,667,293, 6-6-72, Cl. 73-179.000.
Moore, Amos J., to Budd Company, The. Method of finishing a die. 3,636,797, 1-25-72, Cl. 76-107.
Moore, Arnold G.; and Newton, Donald A., to Reynold Leasing Corporation, mesne. Tobacco expansion process. 3,693,631, 9-26-72, Cl. 131-140.00p.
Moore, Arthur Ivan Walter; Porter, John Howard; Vearncombe, Richard Frank; and Reiher, Edward Karl. Face milling tool. 3,670,380, 6-20-72, Cl. 29-105.000.
Moore, Arthur L.: *See—*
Dow, Robert W.; and Moore, Arthur L., 3,656,784.
Moore, Arvel H. Refuse container support. 3,666,223, 5-30-72, Cl. 248-149.000.
Moore, Brian Joseph: *See—*
Watkinson, Leonard James; and Moore, Brian Joseph, 3,669,668.

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- Moore, Buell, to Esquire, Inc. Light fixture. 3,638,010, 1-25-72, Cl. 240-3.
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Doddson, Hugh, 3,674,286.
Gill, Edward W.; and Vincent, Derek A., 3,672,483.
Harrod, Jimmie A., 3,651,758.
Knudsen, James B., 3,633,449.
Rakoske, John Peter, 3,659,631.
Sandbach, Peter, 3,687,386.
Wakeman, William R., 3,655,222.
- Moore, Carl; Gibbs, Dale S.; and Vanderhoff, John W., to Dow Chemical Company, The. Polymer film substrate with vinylidene chloride base coating and wax antisticking top coating. 3,639,148, 2-1-72, Cl. 117-76.
- Moore, Carl; Louch, James B.; and Stainfield, Russell L., to Dow Chemical Company, The. Method of preparing high solids latexes of olefin polymers. 3,644,258, 2-22-72, Cl. 260-29.6.
- Moore, Carl, to Dow Chemical Company, The. Anionic acrylate latexes that possess sensitivity to alkalinity. 3,677,991, 7-18-72, Cl. 260-29.6.
- Moore, Carl, to Dow Chemical Company, The. Carpet backsize with latexes of acidic olefin copolymers. 3,679,469, 7-25-72, Cl. 117-161.00z.
- Moore, Carl O., to Staley, A. E., Manufacturing Company. Confection and method of making it. 3,687,690, 8-29-72, Cl. 99-134.00b.
- Moore, Charles H. Connection assembly for fluid pressure lines. 3,690,702, 9-12-72, Cl. 285-156.000.
- Moore, Charles H., Sr. Transition members. 3,662,583, 5-16-72, Cl. 72-370.
- Moore, Christopher J.: *See—*
Kelly, John C.; and Moore, Christopher J., 3,670,843.
- Moore, Colin Trevor: *See—*
Smith, Allen; and Moore, Colin Trevor, 3,632,225.
- Moore Company, The: *See—*
Moore, Junius T., Jr., 3,673,719.
Moore, Junius T., Jr., 3,698,676.
- Moore, Dan B. Log type building unit. 3,676,969, 7-18-72, Cl. 52-233.000.
- Moore, Dan W. Hydraulically controlled flat bed trailer. 3,633,776, 1-11-72, Cl. 214-512.
- Moore, Dana W., to Honeywell Inc. Magnetic core memory providing both non-alterable and electrically alterable locations. 3,681,767, 8-1-72, Cl. 340-174.00m.
- Moore, David M. Extendible and retractable partition assembly for display shelving. 3,692,191, 9-19-72, Cl. 211-184.000.
- Moore, Donald B., to Locking Devices, Inc. Quick connect lugged coupling. 3,702,708, 11-14-72, Cl. 285-87.000.
- Moore, Donald Baker: *See—*
Posson, Philip Lynn; Moore, Donald Baker; and Nicholson, Dallas Earl, 3,646,888.
- Moore, Donald E., to Dow Chemical Company, The. Process for preparing vinyl chloride polymers of reduced porosity. 3,661,881, 5-9-72, Cl. 260-92.8.
- Moore, Donald R.: *See—*
Tesoro, Guiliana; Sello, Stephen B.; Moore, Donald R.; and Wurster, Rudolf F., 3,650,670.
- Moore, Drew H.: *See—*
Widiger, Almar T.; and Moore, Drew H., 3,645,822.
- Moore Dry Kiln Company of Oregon: *See—*
Murdoch, Kenneth E.; and Turner, Donald B., 3,696,948.
Turner, Donald B.; and Barnes, Albert H., 3,653,506.
- Moore, Earl Phillip, to Du Pont de Nemours, E. I., and Company. Perfluorodicyclopentadiene. 3,686,336, 8-22-72, Cl. 260-648.00f.
- Moore, Earl Phillip, Jr.: *See—*
Bunger, Fred Lee; and Moore, Earl Phillip, Jr., 3,705,183.
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- Moore, Edgar E.; and Foster, William A., to Dow Chemical Company, The. Drainage improvement in paper pulp suspensions containing lignin residues. 3,706,629, 12-19-72, Cl. 162-168.000.
- Moore, Emanuel M., to M & N Developers, Incorporated. Security attachment for chain type door lock. 3,698,751, 10-17-72, Cl. 292-264.000.
- Moore, Eric Desmond. Practice golf club. 3,677,553, 7-18-72, Cl. 273-186.00a.
- Moore, Ernest Beatty: *See—*
Adamski, Vincent Wallace; and Moore, Ernest Beatty, 3,667,818.
- Moore, Eugene R.: *See—*
Hanson, Alden W.; Moore, Eugene R.; Schanhals, Louis Robert; and Parish, Hal G., 3,633,630.
Parish, Hal G.; Palfey, Albert J.; and Moore, Eugene R., 3,637,459.
- Zimmerman, Robert L.; Dennis, Kent S.; and Moore, Eugene R., 3,678,016.
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- Moore, Eugene R.; and Park, William R. R., to Dow Chemical Company, The. Method for making hydrazine derivatives of copolymers of vinyl aromatic compounds and α - β -unsaturated dicarboxylic acids or anhydrides. 3,679,640, 7-25-72, Cl. 260-78.50t.
- Moore, Fletcher L., to United States of America, Atomic Energy Commission. Separation and recovery of americium from curium and other elements. 3,687,641, 8-29-72, Cl. 423-6.000.
- Moore, Francis C. Method of laminating plastic foam. 3,669,786, 6-13-72, Cl. 156-163.000.
- Moore, Francis C.; and Perkinson, Leon A., to Moore-Perk Corporation. Surgical sponge or bandage. 3,678,933, 7-25-72, Cl. 128-296.000.
- Moore, Franklin: *See—*
Kocher, Robert; Moore, Franklin; and Samelson, Harold, 3,688,216.
- Moore, Franklin, Jr.: *See—*
Plessinger, John A.; and Moore, Franklin, Jr., 3,650,344.
- Moore, Franklin K.: *See—*
Kocher, Robert C.; Moore, Franklin K.; Samelson, Harold; and Watson, William R., 3,678,410.
- Moore, Gail C.: *See—*
Ferris, Ford, 3,638,870.
- Moore, George A. Method of pressure cooking foods. 3,635,722, 1-18-72, Cl. 99-1.
- Moore, George A. Breeding machine. 3,696,778, 10-10-72, Cl. 118-9.000.
- Moore, George E.; and Tomlinson, Lee H., to General Electric Company. Burner-flame arrester for burning off-gas from a boiling water reactor power plant. 3,660,041, 5-2-72, Cl. 23-262.
- Moore, George E., to General Electric Company. Burner-cooler system for generating exothermic gas. 3,672,839, 6-27-72, Cl. 23-281.000.
- Moore, George E., to Watson Manufacturing Company, Inc. Teller mechanism. 3,702,101, 11-7-72, Cl. 109-19.000.
- Moore, George E., to Watson Manufacturing Company, Inc. File cabinet. 3,702,209, 11-7-72, Cl. 312-196.000.
- Moore, George Edward, Jr.: *See—*
Moore, George Edward, Sr.; and Moore, George Edward, Jr., 3,704,902.
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- Moore, George G.: *See—*
Trancik, Ronald J.; Moore, George G.; and Harrington, Joseph Kenneth, 3,689,523.
- Moore, George G., to Motorola, Inc. Selective calling system providing an increased number of calling codes or auxiliary information transfer. 3,702,440, 11-7-72, Cl. 325-55.000.
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Harrington, Joseph Kenneth; Moore, George G. I.; and Gerster, John F., 3,696,122.
- Moore, George G. I.; and Conway, Alvin C., to Minnesota Mining and Manufacturing Company. Fluoroalkanesulfonamides. 3,637,845, 1-25-72, Cl. 260-556.
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- Moore, George G. I.; and Conway, Alvin C., to Minnesota Mining and Manufacturing Company. N-aryl sulfonamides. 3,705,185, 12-5-72, Cl. 260-465.00d.
- Moore, George V.: *See—*
Roche, Jerry E.; Martin, Donald N.; Hoffa, Jack L.; and Moore, George V., 3,645,690.
- Moore, George W., Inc.: *See—*
Moore, Harrington, 3,664,400.
- Moore, Glenn E.; Wilson, Fred A.; and Wood, Chester W., to Dover Corporation. Automatic shut-off dispensing nozzle venturi. 3,646,974, 3-7-72, Cl. 141-392.
- Moore, Gordon A.: *See—*
Gelineau, Leodore H., Sr.; and Moore, Gordon A., 3,707,260.
- Moore, Harold R.: *See—*
Boaz, Virgil L.; and Moore, Harold R., 3,688,236.
- Moore, Harold R.; and Fischer, Heinz G. Methods of manufacturing electrical insulating structures. 3,673,297, 6-27-72, Cl. 264-138.000.
- Moore, Harold R.; Robin, Haral T.; and Wallace, William B., to Westinghouse Electric Corporation. Electrical inductive apparatus having serially interconnected coils. 3,688,233, 8-29-72, Cl. 336-183.000.
- Moore, Harrington. Birdfeeder. 3,648,661, 3-14-72, Cl. 119-53.

- Moore, Harrington, to Moore, George W., Inc. Locking set screw. 3,664,400, 5-23-72, Cl. 151-22.
- Moore, Howard. Tool having retractable and removable centering sleeve. 3,633,640, 1-11-72, Cl. 145-51.
- Moore, Howard D.; Padmore, Ernest L.; and Whittle, John, to Shell Oil Company. Semi-fluid lubricant compositions. 3,663,437, 5-16-72, Cl. 252-28.
- Moore, Howard V., to Pacific Valves, Inc. Ball valve. 3,669,406, 6-13-72, Cl. 251-315.
- Moore, Hugh C. Test tube system for separating blood into serum and red cells. 3,701,434, 10-31-72, Cl. 210-477.000.
- Moore, Jack E.: *See—*
Harris, Daniel M.; Moore, Jack E.; Taylor, Chester E.; and Walczyk, Walter H., 3,643,278.
- Moore, Jack P.: *See—*
Snyder, Clermont J.; and Moore, Jack P., 3,659,830.
- Moore, James, to Imperial Chemical Industries Limited. Coating compositions comprising the reaction product of an organic polyisocyanate modified with a monohydric alcohol and an oil modified resinous material. 3,666,696, 5-30-72, Cl. 260-18.0tn.
- Moore, James A.: *See—*
Watwood, Robert P.; and Moore, James A., 3,643,795.
- Moore, James F., Jr.; and Norgren, Leigh H., said Norgren assor. to Norbro Corporation. Game boards. 3,655,196, 4-11-72, Cl. 273-136.
- Moore, James F., Jr., to Moore & Hansen Mfg. Co. Bingo game boards. 3,663,020, 5-16-72, Cl. 273-135.00b.
- Moore, Jesse C., 49% to Kuhlman, Norman H. Apparatus for forming mold material. 3,649,146, 3-14-72, Cl. 425-162.
- Moore, John C., to Dow Chemical Company, The. Method for analysis of large polymer molecules. 3,649,200, 3-14-72, Cl. 23-230.
- Moore, John R.; Noack, William L.; and Roser, Robert A., to Avery Products Corporation. Label dispensing system. 3,696,967, 10-10-72, Cl. 221-73.000.
- Moore, John Russell Crompton. Suspension systems. 3,704,740, 12-5-72, Cl. 152-75.000.
- Moore, Joseph B.; and Athey, Roy L., to United Aircraft Corporation. Production of fine grained ingots for the advanced superalloys. 3,669,180, 6-13-72, Cl. 164-122.000.
- Moore, Joseph B.; and Ather, Roy L., to United Aircraft Corporation. Apparatus for forging. 3,698,219, 10-17-72, Cl. 72-38.000.
- Moore, Joseph E., to Chevron Research Company. Polyhaloalkylpolythioalkyl sulfite esters. 3,632,622, 1-4-72, Cl. 260-456.
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- Moore, Joseph G.: *See—*
Liermann, Charles J.; and Moore, Joseph G., 3,668,711.
- Moore, Junius T., Jr., to Moore Company, The. Indicia plate with means for aligning same with a frame member. 3,673,719, 7-4-72, Cl. 40-20.00r.
- Moore, Junius T., Jr., to Moore Company, The. Assembly for structural framing unit. 3,698,676, 10-17-72, Cl. 248-317.000.
- Moore, Lawrence A., to Beloit Corporation. Apparatus for forming containers by molding. 3,661,489, 5-9-72, Cl. 18-4.
- Moore, Lee C., Corporation: *See—*
Campbell, Erwin A., 3,696,944.
Woolslayer, Homer J.; Woolslayer, Joseph R.; Jenkins, Cecil; and Campbell, Erwin A., 3,633,771.
Woolslayer, Homer J.; Woolslayer, Joseph R.; Jenkins, Cecil; and Campbell, Erwin A., 3,701,435.
- Moore, Leslie D., to Nalco Chemical Company. Catalytic conversion of nitriles to amides. 3,670,020, 6-13-72, Cl. 260-561.00n.
- Moore, Lester C.: *See—*
Lercher, John S.; and Moore, Lester C., 3,648,942.
- Moore, Lester P. Gas liquid separator. 3,641,745, 2-15-72, Cl. 55-345.
- Moore, Lloyd William. Battery cutoff switch. 3,683,143, 8-8-72, Cl. 200-162.000.
- Moore, Lowell B.; Keating, Raymond J.; and Underwood, Warren, to Kartridg Pak Co., The. Vacuum bagging machine. 3,700,387, 10-24-72, Cl. 53-77.000.
- Moore, Paul A.; and Boyles, Homer T., to Halliburton Company. Regulator controlling volume of one or more streams of fluid. 3,638,681, 2-1-72, Cl. 137-607.
- Moore, Peter G.: *See—*
Strain, William H.; and Moore, Peter G., 3,684,295.
- Moore, Peter N.; and Pierce, Leo F. Splash guard for trucks. 3,675,943, 7-11-72, Cl. 280-154.50r.
- Moore, Peter N.; and Pierce, Leo F. Mud flap and mounting means. 3,700,260, 10-24-72, Cl. 280-154.50r.
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Adams, Robert B., 3,640,133.
Packel, Morton A., 3,705,425.
- Moore, R. D., to R-J-R, Corporation. Blood product for fish bait. 3,672,910, 6-27-72, Cl. 99-3.000.
- Moore, Ralph G. D., to GAF Corporation. Solvent soluble diazonium metal salts and diazotype material therefor. 3,666,474, 5-30-72, Cl. 96-91.
- Moore, Raymond D. Roasting rack. 3,665,843, 5-30-72, Cl. 99-419.
- Moore, Raymond Frederick: *See—*
McGrath, Harry; Moore, Raymond Frederick; and Smith, Eric, 3,639,649.
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- Moore, Richard D.: *See—*
Ayling, John K.; and Moore, Richard D., 3,688,280.
- Moore, Richard E. Method of making acrylic-polycarbonate laminate. 3,681,167, 8-1-72, Cl. 156-311.000.
- Moore, Richard E. Pressure polishing of extruded polycarbonate or polysulfone sheet. 3,681,483, 8-1-72, Cl. 264-1.000.
- Moore, Richard L.: *See—*
Davidson, Evan E.; and Moore, Richard L., 3,660,822.
United States of America, National Aeronautics and Space Administration, 3,706,230.
- Moore, Robert B., Jr.: *See—*
Ammons, Robert L.; and Moore, Robert B., Jr., 3,664,114.
- Moore, Robert David, Jr. Heat transfer apparatus with improved heat transfer surface. 3,661,202, 5-9-72, Cl. 165-105.000.
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- Moore, Robert David, Jr. Heat link, a heat transfer device with isolated fluid flow paths. 3,677,336, 7-18-72, Cl. 165-105.000.
- Moore, Robert E.: *See—*
Duling, Irl N.; Schneider, Abraham; and Moore, Robert E., 3,639,362.
Duling, Irl N.; Glazier, Frederick P.; Gates, David S.; and Moore, Robert E., 3,645,902.
Duling, Irl N.; Gates, David S.; Moore, Robert E.; and Glazier, Frederick P., 3,648,531.
Duling, Irl N.; Driscoll, Gary L.; and Moore, Robert E., 3,692,750.
- Moore, Robert E.; and Janoski, Edward J., to Sun Oil Company. Highly fluorinated alkyladamantanes. 3,641,167, 2-8-72, Cl. 260-648.
- Moore, Robert E., to Sun Oil Company. Organic di-isocyanates of alkyladamantanes. 3,646,095, 2-29-72, Cl. 260-453.
- Moore, Robert E., to Sun Oil Company. Conversion of adamantane hydrocarbons to monools. 3,646,224, 2-29-72, Cl. 260-617.
- Moore, Robert E., to Sun Oil Company. Reaction of paraffins with adamantane compounds. 3,646,233, 2-29-72, Cl. 260-666.
- Moore, Robert E., to Sun Oil Company. Reaction of naphthene hydrocarbons with adamantane compounds. 3,646,234, 2-29-72, Cl. 260-666.
- Moore, Robert E., to Sun Oil Company. Dialkylation of haloadamantanes. 3,655,782, 4-11-72, Cl. 260-648.
- Moore, Robert E., to Sun Oil Company. Haloadamantanes. 3,666,806, 5-30-72, Cl. 260-617.00f.
- Moore, Robert E., to Sun Oil Company. Isomerization of cyclic hydrocarbons. 3,671,598, 6-20-72, Cl. 260-666.00m.
- Moore, Robert E., to Sun Research and Development Company. Oxidative dehydrogenation of multicyclic hydrocarbons. 3,671,599, 6-20-72, Cl. 260-666.0py.
- Moore, Robert E., to Sun Research and Development Company. Ethylation of adamantane nucleus with BF etherate. 3,671,600, 6-20-72, Cl. 260-666.00m.
- Moore, Robert E., to Sun Research and Development Company. Preparation of aliphatic olefins from saturated hydrocarbons. 3,707,576, 12-26-72, Cl. 260-666.00a.
- Moore, Robert H.: *See—*
Hall, Maclin S.; and Moore, Robert H., 3,661,257.
Jimeron, Bruce D.; and Moore, Robert H., 3,687,817.
- Moore, Robert L. Games with changeable playing pieces. 3,642,286, 2-15-72, Cl. 273-134.
- Moore, Robert M.; Lauterbach, Norman H.; and Armstrong, David P., to Kermath Manufacturing Corporation. X-ray examination chair. 3,655,968, 4-11-72, Cl. 250-50.
- Moore, Robert N.: *See—*
Holmes, Tunis L.; and Moore, Robert N., 3,642,440.
- Moore, Robert N. Frozen cooked whole cold north atlantic lobster. 3,692,545, 9-19-72, Cl. 99-195.000.
- Moore, Robert S.: *See—*
Kokx, Darrel D.; and Moore, Robert S., 3,706,311.
- Moore, Robert T.: *See—*
Takahashi, Yoshihiro; Moore, Robert T.; and Stephens, Thomas M., 3,703,355.
- Moore, Rodney S.: *See—*
Dineno, Philip A., Jr.; Bonk, Joseph S.; Conrad, Kenneth C.; Moore, Rodney S.; Lochman, Harry E.; and Torello, Daniel D., 3,677,658.
- Moore, Samuel & Company: *See—*
Whitledge, Jon Keyes, 3,706,123.
- Moore, Samuel J. Apparatus for conditioning water supplied to a water heater tank. 3,692,179, 9-19-72, Cl. 210-94.000.
- Moore, Stephen G.: *See—*
Herrell, Robert E.; and Moore, Stephen G., 3,685,253.

- Moore, Stephen G. Retracting bed mechanism. 3,703,735, 11-28-72, Cl. 5147.000.
- Moore, Ted R., to Cities Service Oil Company. Method for stimulating hydrocarbon-bearing formations. 3,674,089, 7-4-72, Cl. 166-245.000.
- Moore, Thomas. Excessive motor load indicator and voltage cut-out device. 3,691,445, 9-12-72, Cl. 318-472.000.
- Moore, Thomas. Motor overload protector and voltage cut-out device. 3,700,964, 10-24-72, Cl. 317-13.
- Moore, Thomas. Automatic transmission fluid replenishment means and level indicator. 3,703,716, 11-21-72, Cl. 340-244.00b.
- Moore, Thomas M.: *See—*
Dax, Peter R.; and Moore, Thomas M., 3,648,284.
- Moore, Vern E. Frangible in-flight arrow head cover. 3,672,677, 6-27-72, Cl. 273-106.50r.
- Moore, Walter E. C., to Virginia Polytechnic Institute Educational Foundation. Apparatus for transferring anaerobic bacteria. 3,666,629, 5-30-72, Cl. 195-127.
- Moore, Walter J.; Cusick, Richard T.; and Byrne, Michael D., Jr. Random access pressure multiplexer valving arrangement and system. 3,645,141, 2-29-72, Cl. 73-420.
- Moore, Werton D., to Ross, Marty and Henderson, Danny. Swimming pool cleaning device. 3,665,942, 5-30-72, Cl. 134-167.00r.
- Moore, Werton Dewitt, to Delta Manufacturing and Engineering Corporation. Vehicle wheel washing apparatus. 3,670,743, 6-20-72, Cl. 134-45.000.
- Moore, Wesley W.; and Redwine, Fletcher H., to United States Steel Corporation. Drilling rig with shiftable crown blocks. 3,658,298, 4-25-72, Cl. 254-190.
- Moore, William C. Extensible universally positionable device. 3,643,084, 2-15-72, Cl. 240-10.67.
- Moore, William C.; and Boos, Alfred J., to Insulating Fabricator, Inc. Receptacle and improved floating platform therefor. 3,663,078, 5-16-72, Cl. 312-71.
- Moore, William C.; and Pilgrim, William S., to Welch Allyn, Inc. Otolaryngoscope construction. 3,698,387, 10-17-72, Cl. 128-9.
- Moore, William G.: *See—*
Gonzales, Michael; Benton, Richard H.; and Moore, William G., 3,706,457.
Moyer, John R.; and Moore, William G., 3,639,248.
- Moore, William H.: *See—*
Weaver, Max A.; Straley, James M.; and Moore, William H., 3,673,169.
- Moore, William H.; and Kessler, Harry H. Abrasion resistant cast iron. 3,663,214, 5-16-72, Cl. 75-126.
- Moore, William J.: *See—*
Bishop, Stephen G.; Moore, William J.; and Swiggard, Edward M., 3,638,138.
- Moore, William J. M.: *See—*
Kusters, Norbert L.; and Moore, William J. M., 3,701,008.
- Moore, William L. Pressure control devices for pneumatic circuits. 3,643,684, 2-22-72, Cl. 137-493.7.
- Moore, William M.: *See—*
Dyla, John F.; Moore, William M.; and Attfield, Robin A., 3,688,475.
- Moore, William M. Angle trisector. 3,693,261, 9-26-72, Cl. 33-1.0ap.
- Moore, William P.; MacGregor, Rob R.; and Sierichs, William C., to Allied Chemical Corporation. Method of separating magnesium from wet-process phosphoric acid. 3,642,439, 2-15-72, Cl. 23-165.
- Moore, William R.: *See—*
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- Moore, William Ross; and Langner, Ralph Rolland, to Dow Chemical Company. The Copolymers of sulfur dioxide with allyl epoxylane ethers. 3,657,200, 4-18-72, Cl. 260-79.3.
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- Moore-Perk Corporation: *See—*
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- Mooreman, Michel. Enzymatic products which optimise the viscosity of mucuses and their applications. 3,683,069, 8-8-72, Cl. 424-94.000.
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- Van Stavern, Merle H.; Moorer, Henry D.; Miller, Gordon H.; and Gunn, Kenneth M., 3,685,653.
- Moorer, Howard H.: *See—*
Falkehaag, Sten I.; Moorer, Howard H.; Prazak, Gerald; and Bailey, Carl W., III, 3,672,817.
- Moore, John A.: *See—*
Renner, Howard W.; and Moore, John A., 3,694,971.
- Moore, Mead S., to Du Pont de Nemours, E. I., and Company. Stable solutions of 4,4'-bis(diethylamino)-benzophenonimine hydrochloride. 3,632,289, 1-4-72, Cl. 8-7.
- Moore, Ralph G.; and Teitelbaum, Charles L., to General Foods Corporation. Production of solid flavoring compositions. 3,644,127, 2-22-72, Cl. 99-140.
- Moore, Robert G., Jr., to Black and Decker Manufacturing Company. The Depth gauge for tool. 3,633,682, 1-11-72, Cl. 173-46.
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- Moorhead, Glenn E. Container for handling chilled product. 3,703,088, 11-21-72, Cl. 62-430.000.
- Moorhusen, Robert W.: *See—*
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- Moorhusen, Robert W., to Xerox Corporation. Short focal length optical imaging system. 3,687,545, 8-29-72, Cl. 355-65.000.
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- Moorman, Charles J.; and Lehman, Richard H., to Bendix Corporation. The Mass spectrometer. 3,668,384, 6-6-72, Cl. 250-41.9rf.
- Moorman, Charles J.; and Reuter, Fred A., to Bendix Corporation. The Gas inlet system for a mass spectrometer. 3,673,405, 6-27-72, Cl. 250-41.90s.
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- Kurk, Kenneth G.; and Kilbride, Robert S., 3,700,127.
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- Moos, Alois J.; and Zeitlin, Alexander, to Barogenics, Inc. Compensating system for presses. 3,635,074, 1-18-72, Cl. 72-453.
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- Moose, Charles R., Jr.; and Jenkins, James L., to Bunker-Ramo Corporation. The Means for reducing cross talk in multiplexed circuitry. 3,660,608, 5-2-72, Cl. 179-15.
- Mooth, Robert A.; Ciesla, Stanley F.; and Roberts, Hugh J., to CPC International Inc. Preparation of granular starch derivatives. 3,644,332, 2-22-72, Cl. 260-233.3.
- Mor, Gera Sergeevna: *See—*
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- Morales, Juan G., to Shell Oil Company. Organophosphorus anhydrides. 3,632,692, 1-4-72, Cl. 260-933.
- Moran, Arthur Stone: *See—*
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- Moran, Charles E., to Chevron Research Company. Asphalt compositions containing polyamide. 3,660,126, 5-2-72, Cl. 106-279.
- Moran, David Martin; and Croucher, Jack Vivian, to Beecham Group Limited. Veterinary treatment. 3,639,560, 2-1-72, Cl. 424-22.
- Moran, James G. Inflatable and illuminable figure. 3,672,083, 6-27-72, Cl. 40-126.00b.
- Moran, James M.; and Saul, Robert J., to Glass Container Industry Research Corporation. I. S. machine control system. 3,634,660, 1-11-72, Cl. 235-151.1.
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- Moran, John J.; and Query, Robert C., to Hycel, Inc. Liquid dispensing apparatus. 3,653,556, 4-4-72, Cl. 222-309.
- Moran, John J., to Hycel, Inc. Clutch. 3,672,477, 6-27-72, Cl. 192-27.000.
- Moran, Kevin E.: *See—*
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- Moran, Leland G.: *See—*
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- Moran, Raymond Michael, Jr., to Ciba Corporation. Compositions comprising a 1,2-epoxy resin and a nitrogen containing heterocyclic compound. 3,634,323, 1-11-72, Cl. 260-47.
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- Moran, Robert J.; and Marsilia, Louis P., to Cardinal Instrument Corporation. Dial thermometer. 3,680,385, 8-1-72, Cl. 73-368.700.
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- Moran, Stephen F., to United States of America, Navy. Pneumatic torpedo launcher with hydraulic operated snubber. 3,631,760, 1-4-72, Cl. 91-402.
- Moran, William F.; and Kyrias, Lucian C., to Beatrice Foods Co., mesne. Article coated with intumescent undercoat of a synthetic resin, inorganic foam forming agent and carbon forming agent, and water-insoluble organic solvent based resin overcoat. 3,663,27, 5-16-72, Cl. 117-76.00p.
- Morancy, William F., to Lawson Products, Inc. Method of making non-run spandex fabric. 3,682,731, 8-8-72, Cl. 156-148.000.
- Morand, Gilles. Hair-slide. 3,698,403, 10-17-72, Cl. 132-46.00r.
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- Morand, Jean-Pierre: *See—*
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- Morando, Jorge A.: *See—*
Baniadam, Mahmood; and Morando, Jorge A., 3,706,318.
- Morane, Bruno; Paoletti, Charles; Merrien, Louis; Maurelli, Manlio; and Sathicq, Robert, to L'Oreal. Method and apparatus for packaging products which are to be stored separately but dispensed simultaneously. 3,635,261, 1-18-72, Cl. 141-3.
- Morane, Bruno; Paoletti, Charles; Merrien, Louis; Sathicq, Robert; and Maurelli, Manlio, to L'Oreal. Method for filling a container with a fluid under pressure. 3,659,395, 5-2-72, Cl. 53-36.
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- Morane, Bruno P., to L'Oreal. Sanitary napkin. 3,669,114, 6-13-72, Cl. 128-290.
- Morane, Bruno P., to L'Oreal. Valve for simultaneously dispensing a plurality of pressurized fluids. 3,674,180, 7-4-72, Cl. 222-145.000.
- Morane, Bruno P., to L'Oreal. Self cleaning valve. 3,675,825, 7-11-72, Cl. 222-148.000.
- Moransais, Charles, to Zafira France. Brush for cleaning gramophone records. 3,659,952, 5-2-72, Cl. 401-196.
- Morat, Franz, to Morat, Franz, G.m.b.H. Synchronized program control apparatus for a knitting machine. 3,680,331, 8-1-72, Cl. 66-50.00r.
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Morat, Franz, 3,680,331.
- Stock, Hans Joachim, 3,660,597.
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Gottschall, Gernot, 3,674,192.
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- Moratelli, Patrick A., Jr.: *See—*
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- Moratschek, Frank G. Machine for making batches of mortar. 3,697,054, 10-10-72, Cl. 259-154.000.
- Moravec, Terrence D., to Universal Oil Products Company. Self-supporting screen deck. 3,653,845, 4-4-72, Cl. 23-288.
- Moravec, Vincent J., Jr.; and Meerbott, William K. Regeneration of platinum-rhenium reforming catalyst. 3,654,142, 4-4-72, Cl. 208-140.
- Moravick, Donald W.; and Levy, Leon M. Jigsaw puzzle. 3,704,892, 12-5-72, Cl. 273-157.00r.
- Moravsky, Vladislav Eduardovich: *See—*
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- Moraw, Roland; Munder, Johannes; and Lohaus, Gerhard, to Keuffel & Esser Company, mesne. Diazotype material using alpha-pyrone ultraviolet radiation absorbers. 3,632,344, 1-4-72, Cl. 96-91.
- Moraw, Roland, to Kalle Aktiengesellschaft. Copying method and apparatus. 3,659,935, 5-2-72, Cl. 355-1.
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- Morawetz, Peter L.; and Tinklenberg, Meryl W., to Buckbee-Mears Company. Electrodeposition systems. 3,649,509, 3-14-72, Cl. 204-238.
- Morawski, London T.; and Parker, John J. Multi-jaw drawbar type chuck. 3,633,929, 1-11-72, Cl. 279-1.
- Morawski, London T.; and Parker, John J., said Parker assor. to Parker, John J., Living Trust. The Work holder for splined workpieces. 3,701,539, 10-31-72, Cl. 279-1.00g.
- Morawski, London T.; and Parker, John J., said Parker assor. to Parker, John J.; as Trustee under Parker, John J., Living Trust. The Multi-jaw chuck. 3,707,292, 12-26-72, Cl. 279-110.000.
- Morawski, London T.; and Parker, John J., said Parker assor. to Parker, John J.; as Trustee under Parker, John J., Living Trust. The Multi-jaw chuck. 3,707,293, 12-26-72, Cl. 279-110.000.
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- Moray, Forest J. Adjustable valve stem oil seals for old and new internal combustion engines. 3,699,942, 10-24-72, Cl. 123-188.00p.
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Smith, Leward N., 3,661,333.
- Morby, John Edward, to Alcan Research and Development, Limited. Method of jointing electrical cables and tool therefor. 3,644,989, 2-29-72, Cl. 29-628.
- Morcaldi D', Rosario Forlano. Loop fabric structure. 3,673,915, 7-4-72, Cl. 87-12.000.
- Morchand, Charles A., to Data-Plex Systems, Inc. System for transmitting two classes of superimposed information. 3,637,926, 1-25-72, Cl. 178-5.6.
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- Morchen, Wolfgang; Hucho, Wolf Heinrich; and Janssen, Lutz Joachim, to Volkswagenwerk Aktiengesellschaft. Fresh air device for power vehicles. 3,638,551, 2-1-72, Cl. 98-2.16.
- Morck, Charles W., Jr., to Selas Corporation of America. Industrial burner. 3,692,460, 9-19-72, Cl. 431-348.000.
- Morcom, Richard James, to Monsanto Company. Method for treating the flanges of containers. 3,633,322, 1-11-72, Cl. 51-323.
- Mordan, William J., to Hewlett-Packard Company. Sweep hold-off circuit. 3,706,904, 12-19-72, Cl. 315-19.000.
- Morden, Russell L.; and Perkins, Ralph W., to General Motors Corporation. Torque responsive transmission mechanism. 3,704,637, 12-5-72, Cl. 74-751.000.
- Morderosian, Lawrence D. Identification structure. 3,643,358, 2-22-72, Cl. 40-2.2.
- Mordig, Eberhard: *See—*
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- More, Oskar Wilhelm, to Telefonaktiebolaget L M Ericsson. Arrangement for metallizing of parts of a body. 3,696,781, 10-10-72, Cl. 118-425.000.
- Moreau, Andre Jules Pierre, to Societe: Etablissements Davey Bickford Smith & Cie and Societe Anonyme Francaise. Explosive device. 3,675,574, 7-11-72, Cl. 102-24.000.
- Moreau, Bernard, to Creusot-Loire. Device for measuring the pressure of a fluid flowing in a pipe. 3,659,459, 5-2-72, Cl. 73-388.
- Moreau, Claude, to Commissariat a l'Energie Atomique. Process for the fabrication of nuclear fuel elements. 3,668,283, 6-6-72, Cl. 264-500.
- Moreau, Glenn T.; and Bielefeldt, Irvin P., to Alco Standard Corporation. Fluxless brazing process. 3,673,678, 7-4-72, Cl. 29-494.000.
- Moreau, Jean-Noel, to Thomson-CSF. Microwave band-pass filter having constant bandwidth as filter is tuned. 3,680,012, 7-25-72, Cl. 333-73.00w.
- Moreau, Jerry P.: *See—*
Chance, Leon H.; and Moreau, Jerry P., 3,639,144.
- Chance, Leon H.; and Moreau, Jerry P., 3,654,274.
- Moreau, Wayne M.: *See—*
Clecak, Nicholas J.; Cox, Robert J.; and Moreau, Wayne M., 3,695,886.
- Moreau, Wayne M.; and Rottmann, Hans R., to International Business Machines Corporation. Optical mask with integral spacers and method of making. 3,676,002, 7-11-72, Cl. 355-133.000.
- Morehead, Edward A.: *See—*
Dibble, Merton L.; and Morehead, Edward A., 3,656,383.
- Morehouse, Alpha L.; Malzahn, Ronald C.; and Day, John T., to Grain Processing Corporation. Hydrolysis of starch. 3,663,369, 5-16-72, Cl. 195-31.000.
- Morehouse, Clarence Kopperl; and Amle, Robert F., to Globe-Union Inc. Water activatable battery. 3,649,363, 3-14-72, Cl. 136-114.
- Morehouse, Edward L. Siloxane-polyoxyalkylene block copolymers containing aralkyl groups. 3,657,305, 4-18-72, Cl. 260-448.2.
- Morehouse, Edward L., to Union Carbide Corporation. Siloxane-polyoxyalkylene block copolymers. 3,686,254, 8-22-72, Cl. 260-448.20b.
- Morehouse, Edward L., to Union Carbide Corporation. Process for producing polyurethane foams. 3,703,489, 11-21-72, Cl. 260-2.5ah.
- Morehouse, Edward L., to Union Carbide Corporation. Silicone sulfates. 3,707,492, 12-26-72, Cl. 260-448.20n.
- Morehouse, Edward Lewis, to Union Carbide Corporation. Siloxane amino hydroxy sulfonates. 3,660,452, 5-2-72, Cl. 260-448.2.

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Morehouse Industries, Inc.: *See—*
Brown, Donald J., 3,685,749.

Morehouse Industries, Inc., *mesne: See—*
Brown, Donald J., 3,675,674.

Moreines, Harold: *See—*
Cohen, Richard; Moreines, Harold; and Parfomak, Walter, 3,662,246.

Morel, Charles J.: *See—*
Baschang, Gerhard; Morel, Charles J.; and Wacker, Oskar, 3,651,103.

Morel, Jacques, to Rhone-Poulenc S.A. Process for the preparation of canthaxanthine. 3,646,149, 2-29-72, Cl. 260-586.

Morel, Richard William Victor: *See—*
Burchell, Geoffrey Barnett; and Morel, Richard William Victor, 3,672,366.

Moreland, Billy Ray: *See—*
Seale, Virgil L.; Moreland, Billy Ray; and De Shazo, James Derwin, 3,676,501.

Moreland, Charles: *See—*
Furman, Arthur R.; Jones, Richard; Moreland, Charles; and Nestle, Elliot, 3,646,522.

Moreland, Colby D., to Dunham-Bush, Inc. Controlled forced draft action to the flue of a gas fired heat exchanger. 3,695,345, 10-3-72, Cl. 165-64.000.

Moreland, Floyd E. Deep-sea dive suit. 3,648,289, 3-14-72, Cl. 2-21.

Moreland, James B. Cable operated article releaser. 3,690,430, 9-12-72, Cl. 194-94.000.

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Moreland, Stephen T., to Scherer, R. P., Corporation. Method for filling and sealing plastic ampoules. 3,650,084, 3-21-72, Cl. 53-37.

Moreland, Stephen T. Continuous sausage manufacture. 3,698,916, 10-17-72, Cl. 99-109.000.

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Morello, Edwin F.; and Serres, Carl, Jr., to Standard Oil Company. Process for preparing polyamide-imides. 3,652,498, 3-28-72, Cl. 260-47.

Morello, Edwin F., to Standard Oil Company (Indiana). Polyamide-imide compositions containing coatability aids. 3,677,992, 7-18-72, Cl. 260-32.80n.

Morello, Herbert: *See—*
Lowry, Alan B.; Mathus, Gregory; Morello, Herbert; and Miller, Robert J., 3,697,014.

Morello, Herbert; and Miller, Robert J., to Digital Information Devices, Inc. Tape cartridge receiving and positioning structure. 3,635,424, 1-18-72, Cl. 242-198.

Morelos, Salvador: *See—*
Peters, Alfred; and Morelos, Salvador, 3,694,367.

Moren, Rolf Erhard. Process and composition for impregnating wood and wood products. 3,661,633, 5-9-72, Cl. 117-148.

Moren, Rolf Erhard; and Ydren, Nils-Erik, to Mo och Domsjo Aktiebolag and Skanski Cementaktiebolaget. Additive for concrete and mortar. 3,663,251, 5-16-72, Cl. 106-90.

Morena, Alfred, Jr.: *See—*
Griffin, William F.; and Morena, Alfred, Jr., 3,634,600.

Morena, John; and Grauso, Robert N., to C.F. & Martin Company. Cylindrical drum shell. 3,680,425, 8-1-72, Cl. 84-411.000.

Morena, John J.: *See—*
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Morena S.A.: *See—*
Chiesa, Luigi, 3,693,522.

Moreno, Albert M. Tensioning device for guy wires. 3,638,912, 2-1-72, Cl. 254-161.

Moreira, Jose Coloma, to Alimantas Ibericos, S.A. Apparatus for sealing upper closure covers of containers. 3,660,965, 5-9-72, Cl. 53-329.

Moret, Michel A., to Institut de Recherche et de Diffusion Industrielle P.G.E. Woog. Device for body care. 3,635,593, 1-18-72, Cl. 417-417.

Moret, Michel A., to Institut de Recherche et de Diffusion Industrielle P.G.E. Woog. Method and apparatus for oral hygiene. 3,696,809, 10-10-72, Cl. 128-66.000.

Moretti, Alberto: *See—*
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,635,925.

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Patron, Luigi; Moretti, Alberto; and Pasqualetto, Renato, 3,637,620.

Patron, Luigi; Moretti, Alberto; and Pasqualetto, Renato, 3,642,737.

Patron, Luigi; Moretti, Alberto; and Sinatora, Gian Paolo, 3,642,738.

Moretti, Anthony L., to Bullard, E. D., Company. Interconnecting member for tension loads. 3,638,283, 2-1-72, Cl. 24-73.

Moretti, John A.: *See—*
Gillund, Arden G.; Holtshouse, Dan K.; Moretti, John A.; and Orlando, Vincent A., 3,703,300.

Moretti, Peter A., to U.S. Oil Company Incorporated. Phosphonium compounds. 3,699,192, 10-17-72, Cl. 260-926.000.

Moreuil, Jean-Louis: *See—*
Brailard, Pierre L.; Moreuil, Jean-Louis; and Steru, Marius, 3,640,002.

Morey Corporation, The: *See—*
Morey, William J., Sr., 3,695,544.

Morey, John Richard: *See—*
Bayne, John; King, Ian Robert; and Morey, John Richard, 3,697,550.

Morey, William J., Sr., to Morey Corporation, The. Retractable cord reel assembly. 3,695,544, 10-3-72, Cl. 242-107.00r.

Morez, Eugene Stephen, to Chicago Musical Instrument Co. Animation circuit for a musical instrument. 3,694,561, 9-26-72, Cl. 84-1.130.

Morf, Max; Wenger, Markus; and Feisst, Jutta, to Ciba-Geigy Corporation. Reaction products of carboxylic acid polymers, alkylenimines and alkylene oxides. 3,679,621, 7-25-72, Cl. 260-29.60h.

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Morgan, Andrew, 50% to Leyva, Manuel M., Jr. Power sander attachment. 3,704,559, 12-5-72, Cl. 51-382.000.

Morgan, Bert B.; and Schroeder, George F., to Northrop Carolina, Inc. Textile thread winder with grooved drive roll. 3,690,578, 9-12-72, Cl. 242-18.0dd.

Morgan, Bevil Boone. Bank mask helmet. 3,672,365, 6-27-72, Cl. 128-141.00r.

Morgan, Bevil Boone, to U.S. Divers Co. Diving helmet. 3,680,556, 8-1-72, Cl. 128-142.200.

Morgan, Bruce M.: *See—*
Schurr, Garmond G.; and Morgan, Bruce M., 3,635,810.

Morgan, Burton D. Method for forming concrete panels under compression. 3,655,847, 4-11-72, Cl. 264-94.

Morgan, Burton D. Cored slab wall panels. 3,677,688, 7-18-72, Cl. 425-468.000.

Morgan, Charles L.: *See—*
Carter, Andrew G.; and Morgan, Charles L., 3,638,692.

Morgan, Charles R.; and Daniels, David A., to Grace, W. R., & Co. Process for preparing methylenebisiminodiacetonitrile. 3,679,728, 7-25-72, Cl. 260-465.5.

Morgan, Charles W., to MM&W, Inc. Converter lock bar. 3,663,039, 5-16-72, Cl. 280-408.

Morgan Construction Company: *See—*
Gilvar, Martin, 3,633,492.

Gilvar, Martin; Conlon, Charles E.; and Lleger, Alfred R., 3,669,377.

Hill, William J.; and Kinnicutt, Roger, Jr., 3,648,736.

Hill, William J., 3,651,921.

Kinnicutt, Roger, Jr.; and Hill, William J., 3,655,079.

Kinnicutt, Roger, Jr., 3,680,758.

Sieurin, Donald, 3,675,456.

Sieurin, Donald, 3,677,120.

Morgan, Cyril, to Alpha Industries, Inc., *mesne*. Point contact semiconductor device. 3,657,617, 4-18-72, Cl. 317-236.

Morgan, Daniel H.; and Herndon, Jackie E., to Tamar Electronics Industries, Inc. Digital cycle system coordinator for traffic control system. 3,654,598, 4-4-72, Cl. 340-41.

Morgan, David E., to Dunham-Bush, Inc. Aspirator disposal system for air conditioner evaporator condensate. 3,662,557, 5-16-72, Cl. 62-279.

Morgan, Donald G., to Electronic Memories & Magnetics Corporation. Magnetic separator. 3,678,427, 7-18-72, Cl. 335-304.000.

Morgan, Edward Ieian: *See—*
Keeble, John; and Morgan, Edward Ieian, 3,666,366.

Morgan, Edward T., to Addressograph-Multigraph Corporation. Cleaning unit for printing press blanket. 3,693,547, 9-26-72, Cl. 101-425.000.

Morgan, Everett L. Variable geometry aircraft. 3,684,216, 8-15-72, Cl. 244-13.000.

Morgan, George Graham: *See—*
Hufton, Raymond Evan; and Morgan, George Graham, 3,642,028.

Morgan, George W.: *See—*
Whitney, Douglas S.; and Morgan, George W., 3,682,396.

Morgan, George W., to Subsea Equipment Associates Limited, *mesne*. Bi-axial articulating pipeline structure. 3,677,302, 7-18-72, Cl. 138-106.000.

Morgan, George W.; and Whitney, Douglas S. Conveyor system. 3,679,045, 7-25-72, Cl. 198-203.000.

Morgan, George W., to Subsea Equipment Associates Limited, *mesne*. Submerged storage unit. 3,686,875, 8-29-72, Cl. 61-46.000.

Morgan, George W., to Subsea Equipment Associates Limited, *mesne*. Method and apparatus for subsurface towing of flowlines. 3,698,348, 10-17-72, Cl. 114-235.00b.

Morgan, George W., to Subsea Equipment Associates Limited, *mesne*. Multi-conduit riser with a flexible joint. 3,701,551, 10-31-72, Cl. 285-137.00r.

Morgan, Harold R., to Dearborn Glass Company. Oven cabinet construction. 3,659,582, 5-2-72, Cl. 126-198.

Morgan, Harvey E.; Suttle, Theodore; and Schenck, Jackson C., to Ragan, Brad, Inc. Apparatus for removing a tire tread. 3,646,984, 3-7-72, Cl. 157-13.

Morgan, Henry A.: *See—*
Lambert, James B.; Seiden, Lewis J.; and Morgan, Henry A., 3,689,856.

Morgan, Henry Z., to Visual Container Corporation. Containers that are compactly nestable when empty and stackable in spaced relation when full. 3,651,977, 3-28-72, Cl. 220-97.

Morgan, Herbert S., Jr., to Monsanto Company. Process for spinning wholly aromatic polyamide filaments. 3,642,706, 2-15-72, Cl. 260-78.

Morgan Information Systems, Inc.: *See—*
Morgan, Robert A.; and Tarver, Fred E. (said Tarver assor. to), 3,687,035.

Morgan, Ira Lon; and Rhodes, John R., to Nuclear-Chicago Corporation. Probe for locating specific elements in a borehole. 3,697,752, 10-10-72, Cl. 250-71.50r.

Morgan, Jack: *See—*
Gotheridge, John Ernest; Morgan, Jack; and Jago, Edward John, 3,662,809.

Morgan, Jack B., to Allegheny Ludlum Industries, Inc. Method and apparatus for evaluating metal cleanliness. 3,677,073, 7-18-72, Cl. 73-67.900.

Morgan, John A., to Phillips Petroleum Company. Valve control system. 3,659,171, 4-25-72, Cl. 318-443.

Morgan, John C.: *See—*
Bhakuni, Roop S.; Morgan, John C.; and Allen, Terry F., 3,661,623.

Morgan, John M., Jr.: *See—*
Berghausen, Philip E.; Dehner, Gareth A.; and Morgan, John M., Jr., 3,650,923.

Morgan, John R.: *See—*
Ben Daniel, David J.; Morgan, John R.; and Fielding, John O., 3,647,223.

Paynter, John; and Morgan, John R., 3,649,361.

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Morgan, John S. Multispeed winch. 3,656,596, 4-18-72, Cl. 192-17.

Morgan, John W.: *See—*
Jepson, Ivar; Morgan, John W.; and Richmond, James W., 3,699,282.

Morgan, John W., to Procter & Gamble Company, The. Novel esters of chrysanthem acid and alcohols related to 2-indanol. 3,647,857, 3-7-72, Cl. 260-468.

Morgan, Johnson T. Cover for waste container. 3,675,813, 7-11-72, Cl. 220-36.000.

Morgan, Joseph Paton. Device for supporting and dispensing articles. 3,648,892, 3-14-72, Cl. 221-301.

Morgan, Justin W. Hairsetting device. 3,667,482, 6-6-72, Cl. 132-9.

Morgan, Lemuel J.: *See—*
Clark, John A., Jr.; Morgan, Lemuel J.; and Kirschner, Robert F., 3,666,003.

Clark, John A., Jr.; Morgan, Lemuel J.; and Kirschner, Robert F., 3,666,918.

Kirschner, Robert F.; Clark, John A., Jr.; and Morgan, Lemuel J., 3,633,658.

Kirschner, Robert F.; Morgan, Lemuel J.; and Clark, John A., Jr., 3,688,839.

Morgan, Leslie, to Leslie, Morgan, Furniture Limited. Furniture. 3,685,063, 8-22-72, Cl. 5-345.000.

Morgan, Loran B. Apparatus for removing foreign bodies from the cornea of the eye. 3,645,266, 2-29-72, Cl. 128-305.

Morgan, Loran B. Scleral lens with attached tube. 3,664,340, 5-23-72, Cl. 128-249.

Morgan, Lynn R.: *See—*
Marchese, Michael A.; and Morgan, Lynn R., 3,684,484.

Morgan, Paul E.: *See—*
Gray, Richard W.; Morgan, Paul E.; and Rumball, Paul G., 3,656,744.

Morgan, Paul E., to USM Corporation. Sheet orienting devices. 3,631,826, 1-4-72, Cl. 112-141.

Morgan, Paul W.: *See—*
Bair, Thomas I.; and Morgan, Paul W., 3,673,143.

Morgan, Paul W., to Du Pont de Nemours, E. I., and Company. Process for chain terminating poly(1,4-amino benzoic acid). 3,637,606, 1-25-72, Cl. 260-78.

Morgan, Perry W., Jr.: *See—*
Reid, Edward J.; and Morgan, Perry W., Jr., 3,637,402.

Morgan, Peter E.; and Roberts, Ronald William, to Courtaulds Limited. Method of making a warp sheet comprising carbon filaments. 3,660,197, 5-2-72, Cl. 156-280.

Morgan, Peter E. D., to Research Corporation. Pressure calcinering. 3,676,079, 7-11-72, Cl. 23-345.000.

Morgan, R. A. Co., Inc.: *See—*
Morgan, Robert A.; and Tarver, Fred E. (said Morgan assor. to), 3,687,035.

Morgan, Richard M., to Miller Fluid Power Corporation. Piston and rod assembly for piston and cylinder devices. 3,703,852, 11-28-72, Cl. 92-258.000.

Morgan, Richard O.: *See—*
Croley, Thomas E.; and Morgan, Richard O., 3,633,794.

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Morgan, Thomas E.: *See—*
Spangler, Paul J.; and Morgan, Thomas E., 3,696,322.

Morgan, Thomas E., to International Telephone and Telegraph Corporation. Cable strap. 3,672,003, 6-27-72, Cl. 24-16.0pb.

Morgan, Thomas E., to International Telephone and Telegraph Corporation. Wire guide. 3,693,230, 9-26-72, Cl. 29-203.000.

Morgan, Thomas E., Jr.: *See—*
Morgan, Thomas E., Sr.; and Morgan, Thomas E., Jr., 3,638,560.

Morgan, Thomas E., Sr.; and Morgan, Thomas E., Jr. Apparatus for bonding brake blocks. 3,638,560, 2-1-72, Cl. 100-93.

Morgan, Thomas J.: *See—*
Emmel, Henry J.; and Morgan, Thomas J., 3,647,304.

Morgan, Thomas M. Honing mandrel. 3,651,608, 3-28-72, Cl. 51-338.

Morgan, Veldon. Animal hair conditioning comb. 3,633,549, 1-11-72, Cl. 119-92.

Morgan, Vernon: *See—*
Coast, Geoffrey; and Morgan, Vernon, 3,656,566.

Morgan, Wendell D., to Fedders Corporation. Dishwasher impeller and spray apparatus. 3,645,453, 2-29-72, Cl. 239-237.

Morgan, Wendell D., to Fedders Corporation. Dishwasher spray arm with integral beating. 3,672,573, 6-27-72, Cl. 239-261.000.

Morgan, William A.: *See—*
Jones, Jerry J.; Keenon, Delbert L.; Morgan, William A.; and Lochridge, Joe C., 3,668,878.

Nolan, Clyde E., Jr.; Morgan, William A.; and Rochelle, William R., 3,680,322.

Morgan, William A., to Brown & Root, Inc. Method and apparatus for connecting pipelines. 3,667,128, 6-6-72, Cl. 33-180.00r.

Morgan, William C.: *See—*
Peterson, Robert A.; Grooss, Frank A.; Morgan, William C.; Stedman, Robert N.; and Teasdale, Max J., 3,661,214.

Morgan, William F.: *See—*
Drejsa, John E.; Henkel, Michael A.; and Morgan, William F., 3,638,565.

Morgan, William R., Jr. Shipping container for poultry. 3,635,198, 1-18-72, Cl. 119-19.

Morgand, Jean Paul; Magnan, Henri; and Romagny, Bernard, to Thomson-CSF. Visual display system with digital storage of video information. 3,651,253, 3-21-72, Cl. 178-6.6.

Morganite Research & Development Limited: *See—*
Tatchell, John J., 3,663,170.

Zbrzezniak, Jozef, 3,698,865.

Morganite Resistors Limited: *See—*
Adwick, Albert Graham; and Nicholson, Henry, 3,688,242.

Galloway, Robert L., 3,682,839.

Morganite Thermal Designs Limited: *See—*
King, David W., 3,635,457.

Morgans, David J.; Bavitz, Joseph F.; and Castello, Robert A., to Merck & Co., Inc. Process for producing magnesium probenecid tetrahydrate. 3,655,742, 4-11-72, Cl. 260-518.

Morgenberger, Peter C. Wheel dolly for lifting snowmobiles and the like. 3,700,212, 10-24-72, Cl. 254-131.000.

Morgenroth, Henri. Meteringrod carburetor. 3,640,512, 2-8-72, Cl. 261-34.

Morgenstern, Dieter: *See—*
Dijkhuizen, Willem; Termin, Erich; Bleh, Otto; and Morgenstern, Dieter, 3,673,159.

- Dijkhuizen, Willem; Termin, Erich; Bleh, Otto; and Morgenstern, Dieter, 3,674,716.
- Morgenstern, Karl; Schnell, Hermann; Bottenbruch, Ludwig; Court, Otto; Schwarz, Hans-Helmut; and Vernaleken, Hugo, to Farbenfabriken Bayer Aktiengesellschaft. Process for the purification of polymer solutions. 3,666,719, 5-30-72, Cl. 260-47.
- Morgenstern, Stanley W., to Technicon Instruments Corporation. Method and apparatus for sample analysis on a continuous flow basis. 3,700,562, 10-24-72, Cl. 195-103.50r.
- Morgenthaler, Frederic R., to Chu Associates, Inc. Signal processing apparatus. 3,668,568, 6-6-72, Cl. 333-30.
- Morgenthaler, Frederic R., to Chu Associates, Inc. Electrical signal processing method and apparatus. 3,707,689, 12-26-72, Cl. 333-30.00r.
- Morgenthaler, William W., to Monsanto Company. Stabilized ammonium phosphate solutions comprising a galactomannan gum and metal salt. 3,634,234, 1-11-72, Cl. 252-7.
- Morgese, Nicholas V., to Continental Can Company, Inc. Carton with gusseted ends. 3,652,005, 3-28-72, Cl. 229-40.
- Morgese, Nicholas V., to Continental Can Company, Inc. Carton with gusseted ends. 3,679,121, 7-25-72, Cl. 229-40.000.
- Morgida, Joseph V.: See—
- Belason, E. Bruce; Castle, George K.; Crowley, Donald P.; and Morgida, Joseph V., 3,647,193.
- Morhenn, Ernst: See—
- Berthmann, Adolf; Lingens, Paul; and Morhenn, Ernst, 3,648,614.
- Mori, Chiharu; and Nakajima, Toru, to Asahi Kogaku Kogyo Kabushiki Kaisha. Automatic timing network for camera shutters. 3,670,637, 6-20-72, Cl. 95-10.00r.
- Mori, Chiharu; and Ota, Katsumi, to Asahi Kogaku Kogyo Kabushiki Kaisha. System for controlling a camera shutter. 3,678,826, 7-25-72, Cl. 95-10.00r.
- Mori, Chiharu; and Ota, Katsumi, to Asahi Kogaku Kogyo Kabushiki Kaisha. Electronic circuits for automatic camera controls. 3,690,230, 9-12-72, Cl. 95-10.00r.
- Mori, Eiji: See—
- Isobe, Kenjiro; Tsuji, Hitoshi; Kawahata, Shigeo; Mori, Eiji; and Ito, Katsuhiko, 3,657,910.
- Mori, Ernest A., to Gulf Research & Development Company. Floating rig motion compensator. 3,687,205, 8-29-72, Cl. 175-27.000.
- Mori, Hajime; and Irizuki, Mamoru, to Nihon Denshi Kabushiki Kaisha. Apparatus for automatically recording the depolarization ratios of Raman bands. 3,697,180, 10-10-72, Cl. 356-75.000.
- Mori, Haruki; Takahashi, Toshinao; and Koyama, Eisuke, to Nippon Steel Corporation. Shift controlling device for shifted materials. 3,643,147, 2-15-72, Cl. 318-603.
- Mori, Hiroo: See—
- Iwaoka, Seiji; and Mori, Hiroo, 3,705,643.
- Mori, Hirosaburo: See—
- Imoto, Saburo; Ikari, Kyoichiro; Mori, Hirosaburo; and Hattori, Tatsuki, 3,650,805.
- Mori, Hiroshi: See—
- Hattori, Kenichi; Goukon, Atushi; Komeda, Yoshiaki; and Mori, Hiroshi, 3,637,580.
- Mori, Hisakazu: See—
- Matsuda, Hideaki; Mori, Hisakazu; and Yamauchi, Fujio, 3,678,012.
- Mori, Hisayuki; and Noguchi, Yoji, to Sekisui Kagaku Gogyo Kabushiki Kaisha. Rotational molding apparatus. 3,677,670, 7-18-72, Cl. 425-62.000.
- Mori, Ikuo, to Nippon Kogaku K.K. Retrofocus type lens system. 3,635,546, 1-18-72, Cl. 350-214.
- Mori, Ikuo; and Matsuki, Keiji, to Nippon Kogaku K.K. High magnifying power dry objective microscope. 3,661,446, 5-9-72, Cl. 350-214.
- Mori, Ikuo, to Nippon Kogaku K.K. Retrofocus type super-wide angle objective lens. 3,663,095, 5-16-72, Cl. 350-214.
- Mori, Kazuhiro; Nakamura, Abio; Nakai, Miyoji; and Komisako, Tetuji, to Matsushita Electric Industrial Co., Ltd. Apparatus for producing open-topped hollow articles. 3,670,548, 6-20-72, Cl. 72-187.000.
- Mori, Kazuo: See—
- Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,666,643.
- Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,632,573.
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- Mori, Kenichi: See—
- Itjima, Taizo; and Mori, Kenichi, 3,688,267.
- Watanabe, Sadakazu; Mori, Kenichi; Yoneyama, Tsunco; and Genchi, Hiroshi, 3,688,266.
- Mori, Kinya: See—
- Konotsune, Shiro; Kachi, Atsuyuki; Tonoike, Takao; and Mori, Kinya, 3,669,948.
- Mori, Koichi: See—
- Nakajima, Tohru; Tashiro, Susumu; Tsukatani, Kenmi; and Mori, Koichi, 3,645,180.
- Mori, Koziro: See—
- Okamoto, Toshiaki; Inada, Masami; and Mori, Koziro, 3,650,574.
- Okamoto, Tosiaki; Mori, Koziro; Yamazaki, Hayao; Abu, Takao; and Sato, Takefumi, 3,706,971.
- Mori, Kunio; and Shirage, Yoshio, to Nippon Kokan Kabushiki Kaisha. Sliding apparatus of a movable bridge. 3,668,729, 6-13-72, Cl. 14-43.000.
- Mori, Kyoichiro: See—
- Ishida, Shinichi; Ohshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; and Kurita, Kunio, 3,651,015.
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- Mori, Lioi; and Ito, Katsuhiko. Device for distributing vibratory energy. 3,696,259, 10-3-72, Cl. 310-8.000.
- Mori, Masao, to Minolta Camera Kabushiki Kaisha. Film locking device in camera. 3,675,555, 7-11-72, Cl. 95-31.00m.
- Mori, Masato: See—
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- Mori, Miyoshi; and Takasu, Shozo, to Aisin Seiki Kabushiki Kaisha. Automatic pattern stitch device in a hand knitting machine. 3,641,788, 2-15-72, Cl. 66-60.
- Mori, Ryoichi; Tajima, Hiroaki; Tsuji, Yoshio; and Sanekika, Noriaki, to Kogyo Gijutsuin; a/k/a Industrial Science and Technology Ministry of International Trade and Industry, Agency of. Logic circuits. 3,681,616, 8-1-72, Cl. 307-218.000.
- Mori, Ryutaro: See—
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- Mori, Samio, to Nippon Electric Company, Limited. Light pen tracking system. 3,659,281, 4-25-72, Cl. 340-324.
- Mori, Shiegi: See—
- Takeda, Yoshifumi; Takagi, Yasuo; and Mori, Shiegi, 3,634,544.
- Mori, Shunji: See—
- Iijima, Taizo; Yamazaki, Issei; Mori, Shunji; Genchi, Hiroshi; and Katsuragi, Sumio, 3,668,638.
- Ogi, Hideo; Ozaki, Haruo; Mishiro, Masaru; Horikawa, Yoshikazu; and Mori, Shunji, 3,646,772.
- Mori, Tadahi: See—
- Sakomura, Toshio; Shimizu, Akihiko; and Mori, Tadahi, 3,686,261.
- Mori, Takaaki: See—
- Tokuyama, Takashi; and Mori, Takaaki, 3,632,433.
- Mori, Takakazu: See—
- Arai, Hiroshi; and Mori, Takakazu, 3,707,097.
- Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, 3,646,835.
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- Mori, Takakazu, to Toyota Jidosha Kogyo Kabushiki Kaisha. Automatic shift control system for automatic transmission. 3,665,779, 5-30-72, Cl. 74-866.
- Mori, Takami, to Okamura Manufacturing Company, Limited. Brake released reversing transmission clutches. 3,702,648, 11-14-72, Cl. 192-4.00c.
- Mori, Takao, to Inouye Kinzoku Kogyo Kabushiki Kaisha. Filter belt with means forming therewith plural pressure filter chambers. 3,695,440, 10-3-72, Cl. 210-225.000.
- Mori, Takashi; and Yoshikawa, Tatsuya, to Fujitsu Limited. Multiprocessor type information processing system with control table usage indicator. 3,706,077, 12-12-72, Cl. 340-172.500.
- Mori, Takeshi: See—
- Yasuda, Tetuya; Tutiya, Hidetaka; and Mori, Takeshi, 3,672,150.
- Mori, Taketoshi; and Iwatake, Sizuo. Skid beam supporting structure for the heating of walking beam type. 3,687,427, 8-29-72, Cl. 263-6.00a.
- Mori, Tetsuo: See—
- Takeshima, Akio; Ueyama, Tadashi; Ohki, Akinori; and Mori, Tetsuo, 3,655,470.
- Mori, Tokio: See—
- Osugi, Kinichiro; Suzuki, Yoshiaki; Mori, Tokio; and Inamoto, Toshiharu, 3,641,561.
- Mori, Toshihiro: See—
- Shimotsuna, Teruo; Mori, Toshihiro; Sano, Kazuo; and Ando, Seigo, 3,635,085.
- Shimotsuna, Teruo; Mori, Toshihiro; and Sano, Kazuo, 3,644,667.
- Mori, Toshiyuki: See—
- Fukami, Masaharu; and Mori, Toshiyuki, 3,670,721.
- Hayamizu, Yoshisada; Mori, Toshiyuki; and Murata, Rikizo, 3,637,282.
- Mori, Toshiyuki, to Olympus Optical Co., Ltd. Endoscope with built-in oximeter. 3,690,769, 9-12-72, Cl. 356-41.000.
- Mori, Toyoshi: See—
- Hinachi, Matatoyo; and Mori, Toyoshi, 3,684,907.
- Mori, Yoichi; and Ichimura, Hiroshisa, to Nissan Motor Company, Limited. Control system for automotive automatic transmission. 3,640,156, 2-8-72, Cl. 74-866.
- Mori, Yoichi; Okazaki, Nobuo; Ohtsuka, Kunio; and Iijima, Tetsuya, to Nissan Motor Company, Limited. Gear train arrangements. 3,701,293, 10-31-72, Cl. 74-759.000.
- Mori, Yoichi; Marumo, Nagayuki; Noburu, Fukazawa; and Ohie, Koichi, to Nissan Jidosha Kabushiki Kaisha. Automatic speed change device for vehicles. 3,701,623, 10-31-72, Cl. 74-695.000.
- Mori, Yoshibumi, to Nippon Telegraph and Telephone Public Corporation. Satellite communication system. 3,676,778, 7-11-72, Cl. 325-4.000.
- Mori, Yoshinori: See—
- Kobayashi, Toyooki; Mori, Yoshinori; and Aiki, Shiegi, 3,692,151.
- Mori, Yoshisuke: See—
- Tsukui, Michio; Watanabe, Yutaka; Suzuki, Hiroshi; Kitamura, Masahiro; and Mori, Yoshisuke, 3,658,750.
- Moriarty, Francis T. Training aid for improving putting. 3,656,752, 4-18-72, Cl. 273-183.
- Morichetto, Michele, to Incentive Research & Development AB. Film case for X-ray camera. 3,639,761, 2-1-72, Cl. 250-68.
- Moriconi, Joseph H.: See—
- Jacknow, Burton B.; and Moriconi, Joseph H., 3,653,893.
- Moriconi, Joseph H.; Palermi, Frank M.; and Jacknow, Burton B., to Xerox Corporation. Development of electrostatographic images. 3,681,107, 8-1-72, Cl. 117-17.500.
- Morieras, Gilbert; and de Lanauze, Michel Sere, to CTA-Compagnie Industrielle de Textiles Artificiels et Synthetiques. Noncircular cable and method of making the same. 3,653,197, 4-4-72, Cl. 57-139.
- Moriga, Hiroshi: See—
- Yamamoto, Kazumasa; Moriga, Hiroshi; Shimotsuna, Wataru; and Shimizu, Toshio, 3,632,526.
- Moriguchi, Katsuo: See—
- Hasegawa, Hiroaki; Kasai, Kouhei; Namizuka, Toshio; and Moriguchi, Katsuo, 3,684,785.
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- Oishi, Asao; Yabuki, Takashi; and Morigutt, Kazuo, 3,636,360.
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- Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; and Moriki, Kiyoshi, 3,649,545.
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- Kawamatsu, Yutaka; Sugihara, Hirosada; and Morimoto, Hiroshi, 3,657,287.
- Nakao, Yoshio; Kuno, Mitsuzo; Yamatodani, Saburo; Imada, Isuke; and Morimoto, Hiroshi, 3,658,648.
- Morimoto, Kazumi: See—
- Kuwabara, Takeo; Morimoto, Kazumi; and Miyao, Hachiro, 3,648,212.
- Morimoto, Michio: See—
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- Niwa, Shohei; Oki, Kazuo; Hayashi, Masaaki; and Morimoto, Yuukichi, 3,689,679.
- Morimura, Syoji: See—
- Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; Watanabe, Ichiro; Murayama, Keisuke; and Morimura, Syoji, 3,684,765.
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- Murayama, Keisuke; Morimura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro, 3,645,965.
- Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; and Watanabe, Ichiro, 3,692,778.
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- Gackstetter, Henry Clinton; Anderson, Harold Francis; Shove, Gordon William; and Morin, Louis George, 3,671,314.
- Morin, Richard A.; and Lanphier, Edward H., to United States of America, Navy. Pressure chamber closure. 3,698,591, 10-17-72, Cl. 220-46.00r.
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- Kukolja, Stephan P.; and Morin, Robert B., 3,702,328.
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- Akai, Sei; and Morinaga, Akira, 3,676,024.
- Morinaga Confectionery Co., Ltd.: *See—*
- Ichihata, Hitoshi, 3,663,234.
- Morinaga, Kenzo: *See—*
- Nakajima, Junichi; Araki, Kazumi; and Morinaga, Kenzo, 3,676,301.
- Morinaga, Kotaro: *See—*
- Higashi, Hideo; and Morinaga, Kotaro, 3,657,279.
- Morinaga Milk Industry Co., Ltd.: *See—*
- Nagasawa, Taro; Tomita, Mamoru; Obayashi, Tomokazu; Tamura, Yoshitaka; and Kenmotsu, Yoko, 3,674,500.
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- Goy, Ronald S.; and Moring, Peter L. E., 3,668,857.
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- Doyle, George Mitchell; Humphreys, Robert Eric; and Moring, Peter Lothar Ernst, 3,671,478.
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- Hosoya, Mitsuru; Sahara, Hiroshi; and Morio, Minoru, 3,638,064.
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- Yukisada, Toshio; Noma, Takao; Morisawa, Masanori; and Hashimoto, Osamu, 3,662,240.
- Morishima, Kunio: *See—*
- Sato, Ryuchi; Harimaya, Seizi; Agata, Akihiko; Morishima, Kunio; Tsutsui, Toshiaki; and Kano, Yasuhiro, 3,637,329.
- Morishima, Yoshio, to Shibata, Ryoji and Shibata, Zenzaburo. Filing implement. 3,701,605, 10-31-72, Cl. 402-58.000.
- Morishima, Yotaro: *See—*
- Sagane, Norio; Harayama, Hiroshi; and Morishima, Yotaro, 3,645,870.
- Morishita, Harumi: *See—*
- Sakato, Yajiro; Ina, Kazuo; Yamamoto, Yukitsune; and Morishita, Harumi, 3,645,755.
- Morishita, Kenshichi: *See—*
- Iwasawa, Seiji; Ishimura, Masabumi; and Morishita, Kenshichi, 3,659,431.
- Morishita, Masanobu, to Nippon Electric Company Limited. Two-tube type color camera system. 3,652,786, 3-28-72, Cl. 178-5.4.
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- Morissette, Bertrand G.: *See—*
- Chafetz, Harry; Canning, William H.; and Morissette, Bertrand G., 3,691,076.
- Morita, Akiyoshi: *See—*
- Hidaka, Tsuneyoshi; Morita, Akiyoshi; Honjo, Yoshihiko; and Nishimura, Takashi, 3,681,518.
- Morita, Akiyoshi; and Itoh, Yukio, to Victor Company of Japan, Limited. Jitter correction system. 3,676,583, 7-11-72, Cl. 178-6.6tc.
- Morita, Carl Akira, to Waimanalo Research Laboratory. Doll limb construction. 3,651,599, 3-28-72, Cl. 46-161.
- Morita, Eiichi, to Monsanto Company. Treating rubber to enhance fiber bonding. 3,644,268, 2-22-72, Cl. 260-38.
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- Morita Fire Pump Mfg. Co., Ltd.: *See—*
- Terayama, Fusaji, 3,693,755.
- Morita, Goro: *See—*
- Majima, Kanji; and Morita, Goro, 3,677,934.
- Morita, Hideo: *See—*
- Aishima, Itsuho; Sakurai, Hisaya; Takashi, Yukichi; Morita, Hideo; Hirotsu, Yoshiyuki; and Hamada, Tetsuo, 3,661,878.
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- Morita, Katsumi: *See—*
- Kanamaru, Toshiji; Morita, Katsumi; and Okada, Akio, 3,693,094.
- Morita, Katsura; Hashimoto, Naoto; Morimoto, Shiro; Ando, Yasuo; and Miyashiro, Yutaka, to Takeda Chemical Industries, Ltd. Process for producing cyanoacetylene. 3,634,488, 1-11-72, Cl. 260-465.9.
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- Morita, Keiichi: *See—*
- Takahashi, Kazusaburo; Sasaki, Takeshi; Takeuchi, Hisaue; Morita, Keiichi; and Toda, Tadatoshi, 3,652,904.
- Morita, Ken-ichi: *See—*
- Kobayashi, Tsuneo; Morita, Ken-ichi; Kitagawa, Hiroshi; Yokoyama, Toshimitsu; and Makida, Shigeo, 3,644,375.
- Morita, Ken-ichi; Mizushima, Toshio; Kitagawa, Hideo; and Sakai, Hiroshi, to Toray Industries, Inc. Heat-treated product of acrylonitrile copolymer and process for the preparation thereof. 3,632,798, 1-4-72, Cl. 260-85.5.
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- Morita, Ken-ichi; Suzuki, Zennosuke; and Hirose, Hiromitsu, to Toray Industries, Inc. Process for the preparation of 2-(hydroxyhydrocarbyl) acrylates. 3,678,093, 7-18-72, Cl. 260-468.00r.
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- Yamachi, Yukio; Fujii, Hirohiko; Yamato-Machi, Kita; Kosuge, Hiroshi; and Morita, Koichi, 3,684,949.
- Morita, Koji: *See—*
- Okada, Hisao; and Morita, Koji, 3,705,363.
- Morita, Minoru: *See—*
- Shiraki, Takashi; Masuoka, Sadao; and Morita, Minoru, 3,639,700.
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- Mitsuyama, Masaru; and Morita, Shigeru, 3,698,371.
- Morita, Tadao: *See—*
- Yamamoto, Mititaka; Kawahara, Kazuhiro; and Morita, Tadao, 3,665,162.
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- Morita, Tomijiro: *See—*
- Shibata, Hiroshi; and Morita, Tomijiro, 3,649,181.
- Shibata, Hiroshi; Morita, Tomijiro; and Nakano, Satoshi, 3,653,819.
- Morita, Yasuyuki: *See—*
- Karube, Norio; and Morita, Yasuyuki, 3,658,406.
- Morita, Yasuyuki; and Nishino, Tsutomu, to Matsushita Electric Industrial Co., Ltd. Photographing arrangement for use with a cathode-ray tube. 3,700,322, 10-24-72, Cl. 355-1.000.
- Morita, Yoshishige: *See—*
- Hagitani, Akira; and Morita, Yoshishige, 3,642,970.
- Morita, Yoshiyuki: *See—*
- Kato, Masumi; and Morita, Yoshiyuki, 3,656,208.
- Morita, Yukiji: *See—*
- Kobori, Yasuhiro; and Morita, Yukiji, 3,693,433.

- Moritake, Mitsuru: *See—*
- Ueda, Koza; Kimoto, Jitsumi; and Moritake, Mitsuru, 3,692,663.
- Moritani, Ichiro; and Fujiwara, Yuzo, to Ube Industries, Ltd. Process for the preparation of aromatic hydrocarbons containing monoethylenic unsaturated radicals. 3,674,884, 7-4-72, Cl. 260-669.00r.
- Morito, Tadashi: *See—*
- Ozawa, Minoru; Morito, Tadashi; and Ishigami, Masahiro, 3,686,598.
- Moritz, Horst: *See—*
- Thorn, Jurgen; and Moritz, Horst, 3,649,840.
- Moritz, Karl-Gunter: *See—*
- Jost, Wolf-Dieter; and Moritz, Karl-Gunter, 3,698,731.
- Moritz, Karl-Ludwig; and Taube, Carl, to Farbenfabriken Bayer Aktiengesellschaft. Arylazodialkylaminoalkyl(2-amino-4-acetylalkinophenyl)ether dyestuffs. 3,642,769, 2-15-72, Cl. 260-207.
- Moritz, Scott N.: *See—*
- Dickinson, George R.; Moritz, Scott N.; and Puls, Werner H., 3,636,425.
- Moritz, Walter D. Artificial skeletal joint. 3,694,821, 10-3-72, Cl. 3-1.000.
- Moritz, Walter Peter. Guillotine knife sharpener. 3,683,563, 8-15-72, Cl. 51-173.000.
- Moriwaki, Shokichi: *See—*
- Fujita, Hideo; Ishitobi, Masami; Suga, Hiroyoshi; Ishiwari, Keishiro; Yotsui, Yoshikazu; Yamashita, Tadao; Edamitsu, Masayuki; and Moriwaki, Shokichi, 3,701,720.
- Moriwaki, Takeshi: *See—*
- Moriyama, Kizyu; and Moriwaki, Takeshi, 3,681,310.
- Moriwaki, Tutomu: *See—*
- Okamoto, Katsumi; Iwama, Seiya; Ozawa, Sanhiro; and Moriwaki, Tutomu, 3,634,564.
- Moriya, Mikio: *See—*
- Nihira, Shohachi; Okawara, Yasuo; Naito, Takehisa; and Moriya, Mikio, 3,690,249.
- Moriya, Tosio: *See—*
- Tsujimura, Kimiaki; and Moriya, Tosio, 3,672,248.
- Moriya, Tuneso: *See—*
- Sassa, Atsuo; Yukutomi, Masuo; Shinkawa, Hirotoshi; Moriya, Tuneso; and Homma, Keisuke, 3,697,566.
- Moriyama, Hiroaki; Yamamoto, Hisao; Nagata, Hideo; and Tamaki, Toshio, to Sumitomo Chemical Company, Ltd. Process for producing 6,7-benzomorphane derivatives of amine type useful as analgesics. 3,634,433, 1-11-72, Cl. 260-294.7.
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- Moriyama, Hisao; and Takagi, Katsuhide, to Sankyo Kogaku Kogyo Kabushiki Kaisha. Focusing device for optical equipment. 3,643,574, 2-22-72, Cl. 95-440.
- Moriyama, Itsuki, to Asahi Kogaku Kogyo Kabushiki Kaisha. Iris diaphragm and blade therefor. 3,685,418, 8-22-72, Cl. 95-64.00r.
- Moriyama, Keiichi: *See—*
- Yamamoto, Akira; and Moriyama, Keiichi, 3,653,964.
- Yamamoto, Akira; and Moriyama, Keiichi, 3,669,740.
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- Moriyasu, Hiro, to Tektronix, Inc. Multistable circuit including elements preset for conduction. 3,681,617, 8-1-72, Cl. 307-225.000.
- Morken, Robert E.: *See—*
- Jacobson, Calvin L.; Morken, Robert E.; and Silver, Norman C., 3,682,401.
- Morkoski, James; and Garriott, Louis B., Jr., to International Harvester Company. Steering compensator to alternately offset the tail wheel on semi-mounted tow-way plows. 3,698,486, 10-17-72, Cl. 172-212.000.
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- Morley, Carl H.; and Sumrall, Howell M., to United States of America, Navy. Air-to-ground target marking device. 3,633,507, 1-11-72, Cl. 102-4.
- Morley, Cyril William James. Wet processing installation. 3,699,983, 10-24-72, Cl. 134-76.000.
- Morley, Derek Colebrook: *See—*
- Norman, Neville Marshall; and Morley, Derek Colebrook, 3,633,965.
- Morley, Frederick William Walton; and Watts, Wilfred Thomas, to Rolls-Royce Limited. Improvements in or relating to bearings. 3,671,145, 6-20-72, Cl. 417-247.000.
- Morley, Frederick William Walton; Bennett, George Henry; Harvey, Richard George; and Wilson, Alan, to Rolls-Royce Limited. Air intakes. 3,684,857, 8-15-72, Cl. 219-201.000.
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- Morley, Richard E.; and Greenberg, Michael P., to Alden Self-Transit Systems Corporation. Transportation system. 3,661,092, 5-9-72, Cl. 104-148.
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- Morlock, Elizabeth Benz; Albright, Jay Donald; and Goldman, Leon, to American Cyanamid Company. Derivatives of 4a, 9b-dihydro-8, 9b-dimethylidibenzofuran and of 4a, 9b-dihydro-8, 9b-dimethylidibenzofuran-3(4H)-one. 3,646,060, 2-29-72, Cl. 260-326.
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- Morlock, Harry K.: *See—*
- Jones, Howard S., Jr.; Witte, Joseph J.; and Morlock, Harry K., 3,680,130.
- Morman, James Forrester, to Imperial Chemical Industries Limited. Tobacco substitute smoking mixture. 3,705,589, 12-12-72, Cl. 131-17.000.
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- Morner, Stellan: *See—*
- Johan, Bengt Olof; and Morner, Stellan, 3,683,733.
- Mornet, Philippe: *See—*
- Teitgen, Jean; and Mornet, Philippe, 3,639,368.
- Mornet, Philippe; Teitgen, Jean; and Marie, Gilbert, to Societe Nationale des Petroles d'Aquitaine tour Aquitaine. Ziegler polymerization catalysts. 3,636,019, 1-18-72, Cl. 252-429.
- Moro, Kazuo. Joint device. 3,698,209, 10-17-72, Cl. 64-12.000.
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- Moroff, Helmut: *See—*
- Arndt, Peter Joseph; Fink, Herbert; Moroff, Helmut; Determann, Hermine; and Grimm, Reinhard, 3,663,462.
- Moroli, Frank A.: *See—*
- Jeff, William C.; Luyster, Thomas, Jr.; Lynch, James F., Jr.; and Moroli, Frank A., 3,677,794.
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- Merrill, Alvin S.; and Rosenhan, Bill J., 3,698,091.
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- Moronval, Gerard: *See—*
- Richard, Gilbert; and Moronval, Gerard, 3,675,033.
- Morooka, Yoshihiko: *See—*
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- Morosawa, Teruo, to Tomy Kogyo Co., Ltd. Toy assembly plant for vehicle. 3,670,450, 6-20-72, Cl. 46-40.
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- Morozowich, Walter, to Upjohn Company, The. Prostaglandin salts of tris(hydroxymethyl) aminomethane. 3,657,327, 4-18-72, Cl. 260-501.17.
- Morozowich, Walter, to Upjohn Company, The. Process for preparing the tris (hydroxymethyl)-aminomethane salt of PGE. 3,703,544, 11-21-72, Cl. 260-501.170.
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- Morphew, James R.; Ingram, Roland D.; and Stokes, John R. Automatic visual aid control unit. 3,643,217, 2-15-72, Cl. 340-147.
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- Morrey, Walter T., to Bendix Corporation. The Source independent power supply. 3,676,768, 7-11-72, Cl. 323-22.00t.

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- Morrice, Anthony Ronald Seaton. Trench shoring frame. 3,693,358, 9-26-72, Cl. 61-41.00a.
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- Morrill, Donald W., to Big J Products, Inc. Sod harvesting vehicle. 3,653,448, 4-4-72, Cl. 172-19.
- Morrill, Ralph C. Aquarium. 3,664,301, 5-23-72, Cl. 119-5.
- Morrill, Wayne J. High starting torque eccentric winding shaded pole motor. 3,697,842, 10-10-72, Cl. 318-221.00r.
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- Morris, Arthur L.: See—
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- Morris, Arthur Leslie; Morris, Peter John; and Simpkin, Dennis John, to Esso Research and Engineering Company. Lubricating and fuel oil compositions. 3,682,819, 8-8-72, Cl. 252-32.70c.
- Morris, Aubrey J.; and Fox, James S. W., to Ambuco Limited. Method and apparatus for inserting a valve member between flanges of a flanged pipe connection. 3,633,598, 1-11-72, Cl. 137-15.
- Morris, Barry S., to Bloxwick Lock and Stamping Company Limited. The Fastening mechanism for doors. 3,661,412, 5-9-72, Cl. 292-218.
- Morris, Carlton M., Jr. Handtruck hoist. 3,704,799, 12-5-72, Cl. 214-370.000.
- Morris, Carolyn Ethel Mary, to Imperial Chemical Industries Limited. Production of fibre reinforced resin composites. 3,666,711, 5-30-72, Cl. 260-38.
- Morris, Carolyn Ethel Mary, to Imperial Chemical Industries Limited. Process for improving the adhesion of polyolefin surfaces. 3,695,915, 10-3-72, Cl. 117-47.00a.
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- Morris, Dennis E., to Shell Oil Company. Half bit memory cell array with nondestructive readout. 3,636,528, 1-18-72, Cl. 340-173.
- Morris, Donald E.: See—
Patterson, William J.; and Morris, Donald E., 3,666,718.
- Morris, Douglas Barrett: See—
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- Morris, Earl L. Soap dispensing metering pressure valve. 3,640,435, 2-8-72, Cl. 222-335.
- Morris, Earl L. Manifold body for a multi-person shower assembly. 3,698,020, 10-17-72, Cl. 4-145.000.
- Morris, Earl R. Swing apparatus. 3,663,016, 5-16-72, Cl. 272-41.
- Morris, Elias J., Jr. Hooked stick figure and handle for catching and projecting same. 3,672,675, 6-27-72, Cl. 273-96.
- Morris, Eugene B., Jr.: See—
Hull, Gerry G.; and Morris, Eugene B., Jr., 3,707,244.
- Morris, Ewel J., Jr. Device for cleaning polluted air. 3,702,049, 11-7-72, Cl. 55-278.000.
- Morris, Francis Joseph: See—
Arthur, John Read, Jr.; and Morris, Francis Joseph, 3,666,553.
- Morris, Geoffrey William: See—
Poucher, Michael; Brooks, Leslie John; and Morris, Geoffrey William, 3,662,556.
- Morris, Harold B. Seismic impulse generation technique. 3,687,228, 8-29-72, Cl. 181-55c.
- Morris, Harold B., to Electronic Systems, Inc. Geophone. 3,688,251, 8-29-72, Cl. 340-17.000.
- Morris, Harold D., to Systron-Donner Corporation. Sensing assembly. 3,646,543, 2-29-72, Cl. 340-262.
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- Morris, Harold D. Sensing mechanism for linear servo accelerometer. 3,690,187, 9-12-72, Cl. 73-512.00b.
- Morris, Harold D.; and Barlak, Andrew B., Jr., to Systron-Donner Corporation. Dual pick-off electronic circuitry for linear servo accelerometer. 3,707,091, 12-26-72, Cl. 73-517.000.
- Morris, Heber L. Fishing line spool holder. 3,638,878, 2-1-72, Cl. 242-129.8.
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Ashton, William B.; and Morris, Herbert C., 3,691,067.
- Morris, Herbert C., to Texaco Inc. Hydrocarbon dewaxing with a mordenite-type aluminosilicate. 3,663,430, 5-16-72, Cl. 208-111.000.
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Davey, Anthony Walter, 3,668,444.
Davey, Anthony Walter, 3,673,482.
- Morris, Horton H.; Olivier, James P.; and Ross, Sydney, to Freeport Sulphur Company. Separation of discolorants from clay. 3,659,708, 5-2-72, Cl. 209-5.
- Morris, Horton H.; and Olivier, James P., to Freeport Sulphur Company. Inorganic materials surface reacted with organo titanium compounds. 3,660,134, 5-2-72, Cl. 106-308.
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- Morris, Joel Morton, to Bell Telephone Laboratories, Incorporated. Switching system charging arrangement. 3,688,047, 8-29-72, Cl. 179-7.00r.
- Morris, John: See—
Cathers, Richard T.; Douglass, William M.; Hess, Frederick D., Jr.; Morris, John; and Roberts, James E., 3,666,211.
- Morris, John, to Lucas, Joseph, (Industries) Limited. Relief valve. 3,677,287, 7-18-72, Cl. 137-491.000.
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- Morris, John C.: See—
Noller, Harry F.; and Morris, John C., 3,664,578.
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- Morris, John W., to Metal Improvement Company, Inc. Apparatus for shot-peening turbine blades. 3,668,913, 6-13-72, Cl. 72-53.000.
- Morris, Leo R.: See—
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- Morris, Lester. Rigid, buoyant, insulating and rapid folding swimming pool covers. 3,683,428, 8-15-72, Cl. 4-172.140.
- Morris, Lewis C., to RCA Corporation. High speed tunable maser for use in radar and communication receivers. 3,688,207, 8-29-72, Cl. 330-4.000.
- Morris, Louis; and Specht, Theodore R., to Westinghouse Electric Corporation. Interwinding shield for power transformers. 3,678,428, 7-18-72, Cl. 336-84.000.
- Morris, Louis P.: See—
Katchka, Jay R.; Caparone, Michael J.; and Morris, Louis P., 3,691,501.
- Morris, Peter, to Procter & Gamble Company. The Process for preparing betaines. 3,649,677, 3-14-72, Cl. 260-501.13.
- Morris, Peter Duncan; and Trayner, Brian T., to British Aircraft Corporation Limited. Sighting apparatus which overcomes trunnion tilt error. 3,688,638, 9-5-72, Cl. 89-41.00t.
- Morris, Peter John: See—
Morris, Arthur Leslie; Morris, Peter John; and Simpkin, Dennis John, 3,682,819.
- Morris, Peter Reginald, to Esso Research and Engineering Company. Derivatives of aliphatic-hydrocarbyl substituted heterocyclic nitrogen compounds. 3,632,600, 1-4-72, Cl. 260-308.
- Morris, Philip, Incorporated: See—
Braginetz, Paul A., 3,643,794.
Braginetz, Paul A., 3,646,672.
Braginetz, Paul A., 3,675,323.
Echeandia, James F.; and Lehman, Robert M., 3,632,358.
Foster, Coleman Arthur; and Taylor, David Johnston, 3,661,666.
Gentry, Elwood M.; and Lilly, Arnys Clifton, Jr., 3,656,474.
Harvey, William R., 3,636,097.
Hind, John D.; and Kelley, Matthias F., Jr., 3,703,177.
Iten, Clemens A.; and Bickers, Harold B., 3,648,365.
Iten, Clemens A., 3,673,672.
Koch, George Peter, 3,653,551.
Lilly, Arnys Clifton, Jr.; and Tiller, Calvin O., 3,657,016.
Lilly, Arnys Clifton, Jr.; and Tiller, Calvin O., 3,698,955.
Rainer, Norman B., 3,674,683.
Rainer, Norman B.; and Wilson, Peter A., 3,674,722.
Risher, Frederick L., 3,685,150.
Stahr, Henry M., 3,671,410.
Tamol, Ronald A.; and Meyer, Leo F., 3,699,973.
Tamol, Ronald A.; and Meyer, Leo F., 3,705,588.
- Morris, Raymond J. T., to Dunlop Holdings Limited. Method of bonding polypropylene or a copolymer of ethylene and propylene to an elastomer. 3,690,925, 9-12-72, Cl. 117-76.00t.

- Morris, Robert D.: See—
Mitchell, George F., Jr.; Morris, Robert D.; and Nevinsky, Michael, 3,681,728.
- Morris, Robert J., Jr.; and Hartz, Thomas Jayes, to National Can Corporation. Container closure. 3,666,138, 5-30-72, Cl. 220-53.000.
- Morris, Robert S.: See—
Meek, Nigel W.; and Morris, Robert S., 3,656,284.
- Morris, Ross E., to United States of America, Navy. Plasticized compositions. 3,696,066, 10-3-72, Cl. 260-23.70h.
- Morris, Ross E., to United States of America, Navy. Method for salvage of sunken ships. 3,696,773, 10-10-72, Cl. 114-54.000.
- Morris, Rupert C.: See—
Smith, George; Sawyer, Webster M., Jr.; and Morris, Rupert C., 3,682,849.
- Morris, Rupert C.; and Mason, Ronald F., to Shell Oil Company. Sec-phosphine dithiophosphinic acid salts. 3,673,231, 6-27-72, Cl. 260-429.900.
- Morris, Stephen J.; and O'Keefe, James M., to Marlin Firearms Co., The. Method of, and apparatus for, burn-fitting wooden gun stocks to metal receivers. 3,697,715, 10-10-72, Cl. 219-10.430.
- Morris, Thomas B.; Paul, Fred; and Powell, Barney R., said Morris assor. to Standard Forge Axle Company, Inc. Apparatus for welding flanges. 3,634,648, 1-11-72, Cl. 219-125.
- Morris, Thomas B.; Paul, Fred; and Powell, Barney R., said Powell assor. to Standard Forge Axle Company, Inc. Apparatus for welding brake shoes. 3,665,146, 5-23-72, Cl. 219-124.
- Morris, Thomas S., to West Point-Pepperell, Inc. Acid bounding nonwoven fabrics. 3,647,591, 3-7-72, Cl. 156-220.
- Morris, Trebor B.: See—
Fehr, Isaac N., Jr.; Morris, Trebor B.; Russ, John J.; Bingham, Richard C.; Rubi, Jose M.; Patton, James C.; and Cannon, Sidney E., 3,649,304.
- Morris, Wheeler & Co., Inc.: See—
MacLeod, Cameron, Jr., 3,666,249.
- Morris, William F., Jr.: See—
Mendelson, William J.; and Morris, William F., Jr., 3,637,405.
- Morris, William F., Jr. Ingredient water chiller apparatus. 3,635,040, 1-18-72, Cl. 62-219.
- Morris, Wolford A., to Restaurant Products, Inc. Food fryer with continuously filtered cooking oil. 3,648,595, 3-14-72, Cl. 99-342.
- Morrisett, Ralph W.: See—
Bjorn, Thomas E.; and Morrisett, Ralph W., 3,688,590.
- Morrisey, Gerrard, to Uniroyal, Inc. Preblending of ethylene-propylene rubber and wax for incorporation in highly unsaturated rubber. 3,639,323, 2-1-72, Cl. 260-28.5.
- Morrish, James Francis: See—
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- Morrish, James Francis Gerrards Cross: See—
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- Morrison, Adrian O., to North American Rockwell Corporation. Collapsible helical antenna. 3,699,585, 10-17-72, Cl. 343-880.000.
- Morrison, Albert, Jr.: See—
Reichhelm, Robert; and Morrison, Albert, Jr., 3,705,784.
- Morrison, Albert R.; and Haynes, Harold L., to Owens-Corning Fiberglas Corporation. Size for fibers and glass fibers coated therewith. 3,664,855, 5-23-72, Cl. 106-212.
- Morrison, Andrew Ivar; and Hannah, Bruce R., to Art Metal-Knoll Corporation. Furniture construction. 3,640,576, 2-8-72, Cl. 297-440.
- Morrison, Andrew Ivar; and Hannah, Bruce R., to Knoll International, Inc. Slung furniture. 3,677,601, 7-18-72, Cl. 297-441.000.
- Morrison, Charles Archer, to Drosdy Importers Proprietary Limited. Battery terminal connectors. 3,662,322, 5-9-72, Cl. 339-95.00b.
- Morrison, Charles F., Jr.: See—
Denison, Dean R.; and Morrison, Charles F., Jr., 3,648,046.
- Morrison, Clyde A.; Wortman, Donald E.; and Farrar, Ruben T., to United States of America, Army. Nuclear charged self-sustaining laser. 3,667,068, 5-30-72, Cl. 331-94.500.
- Morrison, Clyde A. Peristaltic fluid pump. 3,677,667, 7-18-72, Cl. 417-474.000.
- Morrison, David J. Modular construction for enclosed theaters. 3,685,220, 8-22-72, Cl. 52-8.000.
- Morrison, Douglas L., to Pitney-Bowes, Inc. Document handling apparatus for photocopy machines. 3,661,383, 5-9-72, Cl. 271-51.
- Morrison, Edward D.: See—
De Palma, James J.; Morrison, Edward D.; and Williams, Robert F., 3,682,530.
- Mack, Richard C.; Lejnicks, George; and Morrison, Edward D., 3,647,619.
- Morrison, Edwin A., to Culligan International Company. Water softener valve. 3,701,360, 10-31-72, Cl. 137-454.600.
- Morrison, Frank W.; and Morrison, Jerry E. Adjustable support for tree shaking mechanism. 3,656,287, 4-18-72, Cl. 56-328.
- Morrison, Glenn C.; and Shavel, John, Jr., to Warner-Lambert Company. Pyridyl β -ketosulfoxides and sulfones. 3,679,691, 7-25-72, Cl. 260-294.80f.
- Morrison, Horace S. Hull friction reducing apparatus. 3,680,517, 8-1-72, Cl. 114-67.00a.
- Morrison, Howard J.: See—
Glass, Marvin I.; Morrison, Howard J.; and Allen, Robert K., 3,680,254.
Glass, Marvin I.; and Morrison, Howard J., 3,694,955.
- Morrison, Howard J., to Glass, Marvin, & Associates. Mobile toy. 3,638,354, 2-1-72, Cl. 46-132.
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- Morrison, Howard J., to Glass, Marvin, & Associates. Timing apparatus for toy racing cars. 3,648,454, 3-14-72, Cl. 58-145.
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Morrison, Robert S., 3,695,968.
- Morrison, Jack A., to Dow Chemical Company. The. Treatment of pentachlorophenol. 3,646,225, 2-29-72, Cl. 260-623.
- Morrison, James G., to National Steel Corporation. Corrosion resistant articles having a zinc surface and process for preparing the same. 3,669,705, 6-13-72, Cl. 117-17.000.
- Morrison, James S., to Du Pont de Nemours, E. I., and Company. De-emulsifiers for oil-based emulsions. 3,647,688, 3-7-72, Cl. 252-855.
- Morrison, Jerry E.: See—
Morrison, Frank W.; and Morrison, Jerry E., 3,656,287.
- Morrison, Jimmie H., to Storm Manufacturing Company. Apparatus for painting articles. 3,633,536, 1-11-72, Cl. 118-6.
- Morrison, John A.: See—
Dancy, Julian H.; and Morrison, John A., 3,694,135.
Flournoy, Norman E.; Morrison, John A.; Dancy, Julian H.; and Trippet, Raymond, 3,664,804.
- Morrison, John J.; and Morton, John, to Cableform Limited. Control systems. 3,662,227, 5-9-72, Cl. 317-135.
- Morrison, Richard J.; Schlumpf, Arthur A.; and Martino, Albert J., to Rixson Inc. Friction door holder. 3,683,450, 8-15-72, Cl. 16-49.000.
- Morrison, Richard J.; and Ross, Sidney D., to Sprague Electric Company. Silica surface treatment. 3,687,718, 8-29-72, Cl. 117-106.00a.
- Morrison, Robert, to Speedcranes Limited. Derrick cranes and swinging derricks. 3,685,669, 8-22-72, Cl. 212-58.000.
- Morrison, Robert A., to Aerojet-General Corporation. Electrical connectors and attachments. 3,634,808, 1-11-72, Cl. 339-21.
- Morrison, Robert C.; and Kamienski, Conrad W., to Lithium Corporation of America. Organolithium polymerization initiators and use thereof in polymerization processes. 3,668,263, 6-6-72, Cl. 260-665.
- Morrison, Robert C.; and Kamienski, Conrad W., to Lithium Corporation. Preparation of hydrocarbon solvent solutions of organolithium compounds. 3,694,516, 9-26-72, Cl. 260-665.00r.
- Morrison, Robert L. Apparatus for chlorinating swimming pools. 3,650,405, 3-21-72, Cl. 210-241.
- Morrison, Robert M.: See—
Anhalt, John W.; and Morrison, Robert M., 3,676,912.
- Morrison, Robert S., to Morrison Industries, Inc. Method of making a fibrous glass plastic encapsulated plywood or like core panel. 3,695,968, 10-3-72, Cl. 156-216.000.
- Morrison, Robert W. Massage-exerciser device. 3,645,256, 2-29-72, Cl. 128-57.
- Morrison, Steven, to United States of America, Navy. mesne. D.C. to A.C. converter with unique feedback demodulation. 3,699,423, 10-17-72, Cl. 321-8.00r.
- Morrison, Walter C., to Harris-Intertype Corporation. Low sound level single facer machine. 3,671,361, 6-20-72, Cl. 156-472.000.
- Morrison, William B.; and Howorko, Adolf. Hearing aid systems. 3,659,056, 4-25-72, Cl. 179-82.
- Morrison, William F.: See—
Arnaud, Edwin H., Jr.; and Morrison, William F., 3,666,877.
- Morrison, William F.; and Hauser, Henry A., 1/2 to Universal Oil Products Company and 1/2 to Ambuco Limited. Catalytic cracking apparatus. 3,677,715, 7-18-72, Cl. 23-288.00s.
- Morrison-Knudsen Company, Inc.: See—
Fearon, Joseph G., 3,682,332.
Fearon, Joseph G., 3,654,872.
Fearon, Joseph G.; and Battermann, George Monte Gilbert, 3,701,320.
- Morrissey, George R.: See—
Banjavich, Mark P.; Morrissey, George R.; and Gaudiano, Anthony V., 3,641,777.
- Morrissey, Richard T.; and Hess, Nelson C., to Goodrich, B. F., Company. The. Dipping process for forming nonleather, poromeric footwear. 3,642,966, 2-15-72, Cl. 264-45.
- Morrissey, Ronald James; and Crumley, J. A., to AMP Incorporated. Porosity testing. 3,649,472, 3-14-72, Cl. 204-1.
- Morrison, Douglas I.; and Calvi, Salvatore J., to Pitney-Bowes, Inc. Reciprocating document carriage for photocopier. 3,697,165, 10-10-72, Cl. 355-8.000.
- Morocco, Joseph J., III: See—

- Allam, James N.; and Morrocco, Joseph J., III, 3,672,582.
 Morrone, Ross F., to Spectra Instruments, Inc. Method of preparing electrical cables for soldering. 3,659,332, 5-2-72, Cl. 29-427.
 Morroni, Peter J. Apparatus for molding open containers. 3,660,002, 5-2-72, Cl. 425-405.
 Morrow, Hugh, III: See—
 Holtz, Frederick C., Jr.; and Morrow, Hugh, III, 3,698,055.
 Morrow, John Phillip, to Bell Telephone Laboratories, Incorporated. Nonrecursive digital filter apparatus employing delayed-add configuration. 3,665,171, 5-23-72, Cl. 235-152.000.
 Morrow, Joseph G. Conduit plug. 3,667,640, 6-6-72, Cl. 220-24.500.
 Morrow, Paul. Monitoring circuit for detecting leakage currents. 3,700,966, 10-24-72, Cl. 317-18.000.
 Morrow, Robert D.; and Sesko, William J., to Technology Systems, Inc. Cash handling apparatus having a multi-cell magazine. 3,682,183, 8-8-72, Cl. 133-1.000.
 Morrow, Robert S.: See—
 Krywitsky, Leo L.; and Morrow, Robert S., 3,562,804.
 Morrow, Robert S.; Penn, Lloyd D.; and Hays, Kenneth E. Inductive vibration pickup apparatus. 3,707,671, 12-26-72, Cl. 324-34.00r.
 Morrow, Terry R., to Mobil Oil Corporation. Water pollution abatement in a petroleum refinery. 3,671,422, 6-20-72, Cl. 208-79.000.
 Morrow, William B., to Aqua-Mist, Incorporated. Furnace humidifier. 3,635,210, 1-18-72, Cl. 126-113.
 Morrow, William R.: See—
 Bryant, Kenneth Owen; Morrow, William R.; and Logue, Vernon J., 3,680,088.
 Morschhauser, Roger J.: See—
 Schoendorfer, George F.; Morschhauser, Roger J.; Gardner, Thomas S.; and Thompson, Donald L., 3,655,539.
 Morsdorf, Manfred: See—
 Gelderblom, Horst-Dieter; and Morsdorf, Manfred, 3,670,769.
 Morse, Albert R. Injection molding device. 3,689,184, 9-5-72, Cl. 425-245.000.
 Morse Boulger, Inc.: See—
 Grey, Jerry, 3,656,440.
 Grey, Jerry; and Zanft, Auram B., 3,656,441.
 Morse, Charles Ernest: See—
 Audesirk, John Pringle; Morse, Charles Ernest; and Weed, Gordon Douglas, 3,705,269.
 Morse, Clifford, to Vickers Limited. Apparatus including a multiple conduit path system for handling liquids to be tested. 3,689,164, 9-5-72, Cl. 356-246.000.
 Morse, Frank C.: See—
 Sprick, Walter F.; Morse, Frank C.; Holzer, Alexander; Meller, Oscar W.; and Lovich, John W., 3,706,392.
 Morse, Glenn B. Milling vise. 3,663,003, 5-16-72, Cl. 269-60.
 Morse, Hugh H.: See—
 Le Febvre, Alfred B.; Masch, Helmut E. W.; Robert, Louis; and Morse, Hugh H., 3,648,573.
 Morse, James E.: See—
 Bass, Sidney; Clarke, Charles D.; and Morse, James E., 3,664,055.
 Morse, John B., to Polaroid Corporation. Plug and socket assemblies for flash cubes. 3,691,508, 9-12-72, Cl. 339-45.00t.
 Morse, John B., to Polaroid Corporation. Flash unit with indexible socket. 3,692,991, 9-19-72, Cl. 240-1.300.
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 Morse, John E., to Eastman Kodak Company. Web tension isolator or amplifier for web handling apparatus. 3,656,674, 4-18-72, Cl. 226-25.
 Morse, John E.; and Rosenburgh, Norman J., to Eastman Kodak Company. Tape dispenser and applicator. 3,677,864, 7-18-72, Cl. 156-505.000.
 Morse, Lewis D.: See—
 Hammes, Paul A.; and Morse, Lewis D., 3,652,290.
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 Morse, Philip, to Xerox Corporation. Nonagglomerating blending process. 3,647,713, 3-7-72, Cl. 252-408.
 Morse, Phillip H.; and Yarter, James R., to North American Instrument Corporation. Catheter storage rack. 3,633,758, 1-11-72, Cl. 211-13.
 Morse, Robert, Corporation, Limited: See—
 Barrett, Edgar Whitehouse, 3,683,801.
 Livesey, Richard Dennis, 3,701,991.
 Morse, Stephen P.: See—
 Baskin, Herbert B.; Belady, Laszlo A.; Evangelisti, Carlo J.; and Morse, Stephen P., 3,680,078.
 Morse, Theodore H., to Eastman Kodak Company. Apparatus for control of bias potential in an electrophotographic copier. 3,650,622, 3-21-72, Cl. 355-10.
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 Morstadt, Richard A.: See—
 Kopec, Thomas J.; and Morstadt, Richard A., 3,665,107.
 Mort, Paul R., Jr.: See—
 Cleary, Robert A.; and Mort, Paul R., Jr., 3,682,743.
 Mortensen, Donald G.: See—
 Scharmann, Garred N.; Warn, Kermit W.; and Mortensen, Donald G., 3,668,730.
 Mortensen, Donald G., to Wayne Manufacturing Company. Road sweeper conveyor system. 3,649,982, 3-21-72, Cl. 15-84.
 Mortensen, Leland O.: See—
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 Mortensen, Louis Aackersberg. Tubular anchoring member. 3,641,866, 2-15-72, Cl. 85-72.
 Mortensen, Peder. Door assembly. 3,653,533, 4-4-72, Cl. 220-40.
 Mortensen, Stanley: See—
 Reeve, Darrel Lon; and Mortensen, Stanley, 3,693,585.
 Mortenson, Carl Walter. Encapsulating process and product of wire coated with poly(tetrafluorethylene). 3,649,434, 3-14-72, Cl. 161-143.
 Mortillaro, Luigi; Russo, Mario; and Guidotti, Vincenzo, to Montecatini Edison S.p.A. Unsaturated polyamides and process for obtaining same. 3,647,765, 3-7-72, Cl. 260-780.
 Mortimer, Frank R.; Brewster, Alan R.; and Bartram, Michael J., to Dunlop Company Limited, The. Braking systems. 3,700,075, 10-24-72, Cl. 188-346.000.
 Mortl, Gunther Lorenz, to Oesterreichisch-Amerikanische Magnesit A.G. Refractory, fired magnesite brick. 3,676,163, 7-11-72, Cl. 106-58.000.
 Morton, Bruce J.: See—
 Sfat, Michael R.; and Morton, Bruce J., 3,689,277.
 Morton, Charles G., to General Electric Company. Method for improving strippability of insulation from wire. 3,666,596, 5-30-72, Cl. 156-344.000.
 Morton, Clive C. Aerator valve and dental cleanser appliance. 3,680,791, 8-1-72, Cl. 239-428.500.
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 Morton International, Inc.: See—
 Heskitt, Don Edward; Hoover, Frank Kryder; Burkhalter, Robert, Jr.; and Anderson, Douglas West, 3,685,659.
 Orelup, Richard B., 3,690,809.
 Orelup, Richard B., 3,704,106.
 Patton, Richard A., 3,645,824.
 Venerable, James T.; Miyashiro, James; and Seiling, Alfred W., 3,647,849.
 Morton, Jack A.: See—
 Hughes, Harry E., Jr.; Morton, Jack A.; and Wachs, Meyer H., 3,692,168.
 Morton, John: See—
 Morrison, John J.; and Morton, John, 3,662,227.
 Morton, John; Stevens, Keith Drummond; and Thexton, Graham Spencer, to Cableform Limited. Control means for electric motors operated from batteries. 3,689,818, 9-5-72, Cl. 318-478.000.
 Morton, Kenneth O., to Cluett, Peabody & Co. Inc. Arcuate stacker. 3,661,384, 5-9-72, Cl. 271-88.000.
 Morton, Lloyd D. Automatic rotary welding unit. 3,692,972, 9-19-72, Cl. 219-76.000.
 Morton, Maurice; and Fetters, Lewis J., to Goodyear Tire & Rubber Company, The. Preparation of organodilithium initiator and polymerizations utilizing same. 3,663,634, 5-16-72, Cl. 260-665.
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 Morton, Robert E., to Leesona Corporation. Winding apparatus. 3,656,698, 4-18-72, Cl. 242-27.
 Morton, Robert E., to Leesona Corporation. Winding apparatus. 3,672,586, 6-27-72, Cl. 242-27.000.
 Morton, Robert M.: See—
 Castrucci, Paul P.; Gates, Harlan R.; Henle, Robert A.; Pricer, Wilbur David; Morton, Robert M.; Mason, John W.; and North, William D., 3,641,516.
 Morton, Scott D., to United States of America, Navy. Electronic phasing and synchronizing circuit for facsimile recorders. 3,662,096, 5-9-72, Cl. 178-7.30s.
 Morton, William D., Jr.: See—
 Chaparro, John J.; Ellis, Lowell V.; Meanor, Doyle W.; Morton, William D., Jr.; Richelmann, Bernd H.; Ross, George B.; and Toth, John E., 3,677,401.
 Morton-Norwich Products, Inc.: See—
 Alaimo, Robert J.; and Pelosi, Stanford S., Jr., 3,696,114.
 Alaimo, Robert J., 3,705,898.
 Alaimo, Robert J.; and Pelosi, Stanford S., Jr., 3,706,759.
 Burch, Homer A.; and Schwan, Thomas J., 3,665,032.
 Conklin, John D.; and D'Orazio, Edward L., 3,689,654.
 Harris, Nicholas D., 3,665,005.
 Heskett, Don E.; Hoover, Frank Kryder; and Burkhalter, Robert, Jr., 3,675,777.
 Jaech, Merrill O., 3,696,968.
 McCammon, Thomas A., 3,660,297.
 Schwan, Thomas J.; Burrous, Stanley E.; and Butterfield, James L., 3,681,349.
 Morton-Norwich Products, Inc., mesne: See—
 Buhler, Allen C.; Engel, Eric; Nelson, John H.; and Amundson, Clyde H., 3,653,921.
 Burkhalter, Robert, Jr., 3,635,502.
 Burkhalter, Robert, Jr.; Heskett, Don Edward; and Hoover, Frank Kryder, 3,669,148.
 Diamond, Horace W., 3,679,375.
 Langlinais, Vernon L., 3,635,326.
 Odell, Norman F., 3,693,458.
 Palmer, Jay W., 3,647,368.
 Watson, Edward John, Jr., 3,700,673.
 Weyna, Philip L.; Thuma, Volney P.; and Frey, David A., 3,666,521.
 Winitz, Milton, 3,697,287.
 Winitz, Milton, 3,698,912.
 Winitz, Milton, 3,701,666.
 Mortstedt, Sten-Erik. Carburetor. 3,667,740, 6-6-72, Cl. 261-39.00a.
 Morvue, Inc.: See—
 Kerr, James Richard, 3,671,726.
 Morway, Arnold J.; and Bodner, Albert J., to Esso Research and Engineering Company. Colloidal asbestos-complex aluminum salt-alkali-alkaline earth metal mixed salt/soap lubricant. 3,639,236, 2-1-72, Cl. 252-13.
 Morway, Arnold J.; and Bodner, Albert J., to Esso Research and Engineering Company. Colloidal asbestos polyethylene grease. 3,639,644, 2-1-72, Cl. 352-13.
 Mory, Rudolf: See—
 Mueller, Willy; Ronco, Karl; and Mory, Rudolf, 3,691,149.
 Morz, Gunter: See—
 Rucker, Friedrich; and Morz, Gunter, 3,654,571.
 Mosby, James F.; and Koller, James C., Jr., to Standard Oil Company (Indiana). Method of starting up a hydrocracking process. 3,654,138, 4-4-72, Cl. 208-111.
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 Moschel, Albrecht: See—
 Steppan, Hartmut; Moschel, Albrecht; and Luders, Walter, 3,635,720.
 Moschel, Albrecht, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyester polycondensation process under decreasing temperatures. 3,640,962, 2-8-72, Cl. 260-75.
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 Moscou, Leo, to Koninklijke Zwavelzuurfabrieken Voorheen Ketjen N.V. Reduction of the alkali metal content of crystalline aluminosilicates of the Faujasite type. 3,635,663, 1-18-72, Cl. 23-112.
 Moscovich, Ivan. Board game apparatus. 3,677,549, 7-18-72, Cl. 273-135.00r.
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 Mose, Luciano, to Uhde, Friedrich, G.m.b.H. Current supply for electrolysis cells. 3,692,658, 9-19-72, Cl. 204-219.000.
 Mosele, Josef. Electrical contacting arrangement. 3,657,505, 4-18-72, Cl. 200-166.
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 Moseley, Robin C.: See—
 Libby, Richard L.; Moseley, Robin C.; Jehl, Thomas G.; Rug-giello, William A.; and Dunn, J. Stewart, 3,656,131.
 Moseley, Royston L., to Beakbane, Henry, (Fortox) Limited. Corrugated covers. 3,660,213, 5-2-72, Cl. 161-7.
 Moseley, Royston L.; and Knowles, Peter M., to Henry Beakbane (FORTOX) Limited. Corrugated covers. 3,676,286, 7-11-72, Cl. 161-109.000.
 Mosely, Graham H.: See—
 Carlson, Heinz F.; Isaac, George L.; and Mosely, Graham H., 3,687,345.
 Moser, Billy G.: See—
 United States of America, National Aeronautics and Space Administration, 3,675,712.
 Moser, Billy G.; and Landel, Robert F., to California Institute of Technology. Polymeric compositions and their method of manufacture. 3,651,008, 3-21-72, Cl. 260-37.
 Moser Box Partition Co., Inc.: See—
 Monaco, Alfred; and Monaco, Arthur L., 3,690,225.
 Moser, Gene W.; Cox, Robert A.; and Teza, James E. Interaction symbol recorder for use in evaluating a dialogue. 3,686,429, 8-22-72, Cl. 178-2.00r.
 Moser, Gottfried: See—
 Spiller, Richard; Moser, Gottfried; and Berthold, Walter, 3,690,395.
 Moser, James R.: See—
 Giner, Jose D.; and Moser, James R., 3,650,838.
 Maier, Robert E., Jr.; and Moser, James R., 3,674,258.
 Schneider, Alan A.; and Moser, James R., 3,674,562.
 Moser, James R., to Catalyst Research Corporation. Solid state lithium-iodine primary battery. 3,660,163, 5-2-72, Cl. 136-83.
 Moser, Kurt: See—
 Martin, Henry; Beriger, Ernst; and Moser, Kurt, 3,642,989.
 Moser, Kurt; Hochli, Beat; Volker, Theodor; and Wicht, Paul, to Lonza Ltd. Copolymers of isopropenyl alkyl ethers and process for their production. 3,651,026, 3-21-72, Cl. 260-78.5.
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 Moser, Kurt; and Hochli, Beat, to Lonza Ltd. Torsional oscillator. 3,696,664, 10-10-72, Cl. 73-99.000.
 Moser, Murtha E.: See—
 Lynch, John F.; Moser, Murtha E.; and Nichols, Raymond A., 3,687,288.
 Moser, Paul: See—
 Kartschmaroff, Peter; Moser, Paul; and Berger, Kurt, 3,660,444.
 Kartschmaroff, Peter; and Moser, Paul, 3,696,135.
 Moser, Peter: See—
 Artz, Klaus; Ramanathan, Visvanathan; and Moser, Peter, 3,707,532.
 Moser, Raymond L.: See—
 Gutman, Nathan; Moser, Raymond L.; Oldenburg, Dorrance; and Sunderlin, Donald E., 3,669,161.
 Moser, Raymond L.; Oldenburg, Dorrance; and Sunderlin, Donald E., to Caterpillar Tractor Company. Compactor wheel configuration. 3,687,023, 8-29-72, Cl. 94-50.0pr.
 Moser, Raymond L., to Caterpillar Tractor Company. Tree harvester control circuit. 3,690,354, 9-12-72, Cl. 144-34.00r.
 Moser, Raymond L., to Caterpillar Tractor Company. Short wood attachment for tree harvesters. 3,693,678, 9-26-72, Cl. 144-2.00z.
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 Moser, Vincent J.: See—
 Emmons, William D.; Moser, Vincent J.; Brodnyan, John G.; and Shachat, Norman, 3,705,053.
 Moser, Wilhelm: See—
 Dillenburger, Helmut; Honig, Helmut; and Moser, Wilhelm, 3,700,414.
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- Carr, William F.; and Moses, Sidney A., 3,633,456.
- Mosher, Douglas E.; Treat, Carleton H.; and Drab, Edwin H., to USM Corporation. Continuous mixer. 3,704,866, 12-5-72, Cl. 259-192.000.
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- Camp, Albert T.; Dickinson, Lionel A.; and Mosher, Paul R., 3,634,158.
- MacKenzie, Gerald L.; and Mosher, Paul R., 3,674,702.
- Mosher, Peter J.: *See—*
- Converse, Vernon G., III; Allington, George R.; and Mosher, Peter J., 3,631,967.
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- Mosher, Richard G.: *See—*
- Bishop, Irving N.; Mosher, Richard G.; and Simko, Aladar O., 3,696,798.
- Mosher, Robert J.: *See—*
- Busker, Leroy H.; and Mosher, Robert J., 3,681,684.
- Busker, Leroy H.; and Mosher, Robert J., 3,694,737.
- Busker, Leroy H.; and Mosher, Robert J., 3,696,292.
- Mosher, Walter W., Jr.: *See—*
- Monaghan, Frank; Mosher, Walter W., Jr.; and Long, Donald A., 3,680,194.
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- Mosier, Benjamin, mesne: *See—*
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- Mosier Industries, Inc.: *See—*
- Wright, Lee A., 3,648,568.
- Mosier, James A.; and Dolister, Harold H., to Modine Manufacturing Company. Method of fabricating a heat exchanger. 3,689,972, 9-12-72, Cl. 29-157.30r.
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- Diring, James A.; Engel, John B.; and Broeren, John E., 3,700,181.
- Mosko, Joseph A.: *See—*
- Corzine, Robert G.; and Mosko, Joseph A., 3,683,385.
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- Kalner, Veniamin Davidovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Riskind, Alexandr Moiseevich; Semenov, Viktor Nikolaevich; Stepin, Anatoly Loginovich; Surov, Mikhail Andreevich; Shepelyakovskiy, Konstantin Zakharovich; and Shklyarov, Isaak Nakhimovich, 3,696,225.
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- Brukovsky, Igor Pavlovich; Yakovlev, Pavel Borisovich; Gutterman, Kirill Davidovich; Perov, Alexandr Vasilievich; Zhukov, Vladimir Fedorovich; Nekrasova, Larisa Petrovna; and Ivanovsky, Jury Dmitrievich, 3,689,798.
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- Gridunov, Ivan Tikhonovich; Unkovsky, Boris Vladimirovich; Donskaya, Marina Maiorovna; Andreev, Leonid Vladimirovich; Korolkova, Galina Sergeevna; Ignatova, Ljudmila Alexandrovna; and Grigorian, Alexandr Grigorievich, 3,681,278.
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- Eremenko, Vladimir Grigorievich, 3,706,019.
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- Shepelyakovskiy, Konstantin Zakharovich; Ushakov, Boris Konstantinovich; Devyatkin, Vasily Petrovich; Devyatkov, Vladimir Fedorovich; Shakhov, Vasily Ivanovich; Kachkanov, Nikolai Nikolaevich; Gazarov, Leon Alexandrovich; Pchelkina, Valentina Mikhailovna; Drbunov, Mikhail Alexandrovich; and Vologdin, Vladislav Valentinovich, 3,682,519.
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- Gautier, Jean A.; Miocque, Marcel Y.; Moskowitz, Henri; Blanc-Guenee, Janine L.; Raynaud, Guy M.; and Dorme, Nicole A. M., 3,655,762.
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- Zatko, Lester T., 3,654,790.
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- Kaplan, Martin; Hansen, Donald E.; and Quist, Eric G., 3,703,000.
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- Blizard, Horace A., 3,702,551.
- Conroy, John P.; Grimes, Kendall H.; and Maynard, Robert W., 3,680,226.
- Potzick, Anthony J., 3,699,789.
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- French, Gerald H., 3,671,973.
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- White, Neil S.; Wenschhof, David E.; and Mosman, Richard R., 3,694,083.
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- Moss, Jerome A. Rotating advertising display. 3,665,625, 5-30-72, Cl. 40-33.000.

- Moss, John Arthur, to Simon, Henry, Limited. Web feeding apparatus. 3,679,117, 7-25-72, Cl. 226-199.000.
- Moss, Keith Graham: *See—*
- Pumphrey, Nicholas William James; and Moss, Keith Graham, 3,706,600.
- Moss, Merton. Combination radiographic apparatus. 3,673,408, 6-27-72, Cl. 250-61.500.
- Moss, Mortimer. Cylindrical exposure device for transferring an image of a master sheet to a copy member. 3,642,368, 2-15-72, Cl. 355-47.
- Moss, Norman; and Broad, Michael John, to Plessey Company Limited, The. Control of fluidic devices. 3,636,967, 1-25-72, Cl. 137-81.5.
- Moss, Norman, to Plessey Company Limited, The. Fuel-injection devices for mixture-aspiring internal-combustion engines. 3,677,236, 7-18-72, Cl. 123-32.0ea.
- Moss, Norman S.: *See—*
- Newstead, Charles; and Moss, Norman S., 3,662,865.
- Moss, Philip H.: *See—*
- Watts, Lewis William; and Moss, Philip H., 3,699,177.
- Moss, Philip H.; and Cuscurida, Michael, to Jefferson Chemical Company, Inc. Polyurethane foams prepared from starch-based polyether polyols. 3,655,590, 4-11-72, Cl. 260-2.5.
- Moss, Philip Hotchkiss: *See—*
- Edwards, Gayle Dameron; and Moss, Philip Hotchkiss, 3,681,456.
- Moss, Robert D. Power assist barge for ocean service. 3,677,215, 7-18-72, Cl. 115-16.000.
- Moss, Theron C.: *See—*
- Moss, Theron V.; and Moss, Theron C., 3,703,738.
- Moss, Theron V.: *See—*
- Moss, Theron V.; and Caylor, Ollie Ray (said Caylor assor. to said), 3,636,603.
- Moss, Theron V.; and Caylor, Ollie Ray, said Caylor assor. to said Moss, Theron V. Buffing device. 3,636,603, 1-25-72, Cl. 29-120.
- Moss, Theron V. Mop and method of making same. 3,644,958, 2-29-72, Cl. 15-229.
- Moss, Theron V. Mop swab and method of manufacture. 3,696,460, 10-10-72, Cl. 15-229.00r.
- Moss, Theron V.; and Moss, Theron C. Mop with metal headband. 3,703,738, 11-28-72, Cl. 15-229.00a.
- Moss, Valentin G.; and Trautman, Jack C., to Mayer, Oscar, & Co., Inc. Method of preparing meaty-flavored protein hydrolyzates from meat carcass components. 3,692,538, 9-19-72, Cl. 99-107.000.
- Moss, Vladimir. Transparent container and lettered cubes puzzle. 3,679,213, 7-25-72, Cl. 273-156.000.
- Mossberg, Kare Hjord; and Akerberg, Dag E. Son, to Telefonaktiebolaget L. M. Ericsson. Building block for active RC filters. 3,636,466, 1-18-72, Cl. 330-85.
- Mossberg, O. F., & Sons, Incorporated: *See—*
- Seecamp, Louis W., 3,688,640.
- Mosser Industries, Incorporated: *See—*
- Hagar, Donald K., 3,636,971.
- Mossey, Paul W., to General Electric Company. Weighted optical temperature measurement of rotating turbomachinery. 3,696,678, 10-10-72, Cl. 73-346.000.
- Mossmann, Donald P., Sr. Cook stove grid. 3,687,127, 8-29-72, Cl. 126-215.000.
- Mosso, Paul R.; and Faelten, Carl R., to PPG Industries, Inc. Urethane-containing aminic polyols and foams derived therefrom. 3,655,588, 4-11-72, Cl. 260-2.5.
- Mosterd, Jacob Hendrik. Automatically discharging gripper device. 3,703,309, 11-21-72, Cl. 294-86.00r.
- Mostyn, William D., to Commonwealth of Australia, Minister of State for Defence, the Government of the. Telescopic tube locking and unlocking system. 3,697,103, 10-10-72, Cl. 287-58.0ct.
- Mostyn, William T., Jr., to MusiConics International, Inc. Simultaneous logarithmic conversion and digital display apparatus. 3,678,505, 7-18-72, Cl. 340-347.0ad.
- Motai, Hirokazu, to Nippon Sheet Glass Co., Ltd. Dazzle-preventing and heat-blocking glass sheet. 3,652,370, 3-28-72, Cl. 161-2.
- Motillon, Jeannine: *See—*
- Gobron, Georges; and Motillon, Marcel, 3,652,458.
- Motillon, Marcel: *See—*
- Gobron, Georges; and Motillon, Marcel, 3,652,458.
- Motillon, Michel: *See—*
- Gobron, Georges; and Motillon, Marcel, 3,652,458.
- Motis, Gilbert M., to Coats Company, Inc., The. Tire servicing and inflating apparatus. 3,700,021, 10-24-72, Cl. 157-1.100.
- Motl, Daniel M., to Allied Power Industries, Inc. Automobile air conditioner test and service equipment. 3,686,954, 8-29-72, Cl. 73-432.00r.
- Motler, Richard: *See—*
- Ormerod, Reginald; and Motler, Richard, 3,695,021.
- Motley, David M.; and Salman, Naif D., to North American Rockwell Corporation. System for phase locking on a virtual carrier received by an asymmetrical receiver. 3,669,511, 6-13-72, Cl. 325-329.000.
- Motoe, Akihiro: *See—*
- Fuji, Kinjiro; Motoe, Akihiro; and Kasugai, Homuru, 3,684,558.
- Motojima, Hiroshi: *See—*
- Hojo, Toki; Sasaki, Toshio; Motojima, Hiroshi; and Sasaki, Hideaki, 3,681,171.
- Motoki, Masaya: *See—*
- Kurita, Takaji; Motoki, Masaya; Emoto, Kazuhiro; and Hojo, Katsuo, 3,671,646.
- Motola, Solomon, to Schering Corporation. Salts of megalomicin complexes. 3,634,393, 1-11-72, Cl. 260-210.
- Motomi, Kano: *See—*
- Masayasu, Arikawa; Motomi, Kano; Katsuro, Iio; and Toshio, Tanaka, 3,669,335.
- Motor Coach Industries Limited: *See—*
- Zoltok, Harry, 3,665,645.
- Motor Industry Research Association: *See—*
- Searle, John Albert; and Perrin, Dennis William, 3,664,038.
- Motor Wheel Corporation: *See—*
- Derleth, Robert J., 3,669,501.
- Motoren- und Turbinen-Union: *See—*
- Leibach, Heinrich; Schweikl, Ludwig; and Lottes, Paul, 3,685,738.
- Motoren- und Turbinen-Union Munchen GmbH: *See—*
- Bader, Eberhard, 3,657,885.
- Fehler, Adolf, 3,664,124.
- Greune, Christian, 3,653,206.
- Greune, Christian, 3,657,880.
- Hagemeyer, Klaus, 3,703,076.
- Hagen, Hermann; Fehler, Adolf; and Greune, Christian, 3,657,886.
- Hansen, Wolfgang, 3,678,555.
- Loebel, Wolf, 3,652,177.
- Stahl, Ulli, 3,642,209.
- Trappmann, Klaus, 3,674,377.
- Wildner, Walter, 3,638,862.
- Wildner, Walter, 3,703,258.
- Motoren- und Turbinen-Union Friedrichshafen GmbH: *See—*
- Gros, Hermann, 3,683,719.
- Haide, Karl; and Schweizer, Walter, 3,633,364.
- Motoren- und Turbinen-Union GmbH: *See—*
- Westphal, Bernd; and Kandler, Georg, 3,695,777.
- Motoren-Werke Mannheim AG vorm. benz Abt. Stationärer Motorenbau: *See—*
- Hubschmann, Karl-Wolfgang, 3,661,017.
- Motorenfabrik Hatz KG: *See—*
- Hatz, Ernst, 3,669,082.
- Motorola, Inc.: *See—*
- Altonen, Wilhart Niilo, Jr.; and Auer, Fred Vincent, 3,638,071.
- Anderson, Harold; Cain, Jerry Blanchard; and Doggett, John G., Jr., 3,696,432.
- Ashton, Clark L.; Hays, Robert G.; and Pennell, Ronald C., 3,681,154.
- Augustine, Lawrence G., 3,649,883.
- Ball, John F.; and Beatty, Rex R., 3,651,957.
- Barnes, James A.; and Bjornholt, John E., 3,683,373.
- Barone, Frank J.; and Tolliver, Donald L., 3,698,948.
- Barrows, Richard G.; and Ahillen, William G., 3,633,134.
- Becker, John E., 3,671,878.
- Bench, Stephen M., 3,632,876.
- Bennett, Leonard W.; Hutchinson, Thomas R.; and Schilling, Winston H., 3,701,016.
- Besier, Emil E., 3,663,750.
- Besier, Emil E.; and Knauer, Warren L., Jr., 3,706,844.
- Beuk, Ljubomir; and Vargas, Robert, 3,636,434.
- Beuk, Ljubomir; Dogadko, Peter; and Sansbury, Larry, 3,669,086.
- Bevacqua, Louis A., 3,660,623.
- Black, James R.; and Gurev, Harold S., 3,680,028.
- Bogut, Henry A.; and Jasinski, Leon, 3,667,026.
- Boland, Bernard W., 3,696,276.
- Bolomon, James E.; and Davis, Walter Richard, 3,684,974.
- Borman, William M.; and Walker, Donald L., 3,644,883.
- Bougut, Henry A., 3,686,530.
- Boyle, Donald Francis, 3,698,075.
- Brand, Warren L., 3,669,724.
- Braun, William V.; and Leitich, Albert J., 3,639,690.
- Bretl, Wayne E., 3,633,121.
- Bruckert, Eugene J., 3,648,190.
- Buchanan, John K., 3,676,700.
- Burns, Clence L., 3,688,179.
- Cecchin, Gildo, 3,637,924.
- Cecchin, Gildo; and Hilbert, Francis H., 3,644,677.
- Chapman, Ronald H., 3,696,252.
- Cherry, James R.; Byles, Theodore A.; and Nilssen, Ole K., 3,668,419.
- Cherry, James R., 3,689,826.
- Cherry, James R., 3,694,731.
- Cherry, James R., 3,702,901.
- Choi, Charles; and McGhay, Maynard H., 3,706,948.
- Clark, Alfred J., 3,646,821.
- Clark, Alfred J., 3,684,299.
- Clark, Alfred J., 3,684,300.

Clark, Lowell; and Elgan, Douglas L., 3,681,153.
 Coleman, Michael G.; and Huffman, Tommie R., 3,675,064.
 Combs, Jimmy Paul, 3,667,045.
 daCosta, Harry; and Thornton, Charles G., 3,631,645.
 Dame, John S., 3,670,303.
 Dame, John S., 3,701,150.
 Dattilo, Donald J., 3,647,225.
 Dattilo, Donald J., 3,692,314.
 Davidson, John R., 3,681,704.
 Davidson, John R., 3,700,811.
 Davis, Earl K.; Hansen, Kent W.; and Jayachandra, Yaemmanur, 3,654,505.
 Davis, Walter Richard; and Solomon, James E., 3,668,440.
 Davis, Walter Richard, 3,671,767.
 Davis, William F.; and Frederiksen, Thomas M., 3,665,329.
 Dragon, James W.; and Ocken, Alfred G., 3,662,725.
 Drodzowicz, Kenneth Paul; Fowler, William Rey; and Averkiou, George, 3,665,266.
 Elgan, Douglas L.; and Hays, Robert G., 3,681,155.
 Feder, Alvin, 3,647,158.
 Feder, Alvin, 3,647,356.
 Feder, Alvin, 3,663,774.
 Fierstien, Gary N.; and Talvensaari, Paul A., 3,652,948.
 Finger, Carl; Selinko, George J.; and Yeager, Stanley A., Jr., 3,634,732.
 Fiore, Jack C.; and Tennerstedt, M. Richard, 3,704,424.
 Foltz, James W., 3,679,913.
 Fox, Philip J.; and Wright, John W., 3,637,980.
 Frazee, Orville Phillip, 3,664,893.
 Frederiksen, Thomas M., 3,648,069.
 Frederiksen, Thomas M.; and Russell, Ronald W., 3,648,154.
 Frederiksen, Thomas M., 3,649,846.
 Frederiksen, Thomas M., 3,659,121.
 Frederiksen, Thomas M., 3,670,219.
 Frederiksen, Thomas M., 3,671,770.
 Frederiksen, Thomas M., 3,700,929.
 Frederiksen, Thomas M.; and Long, Ernest L., 3,701,031.
 Free, Maurice G., 3,668,773.
 Free, Maurice G.; and Wiseman, Leo L., 3,679,963.
 Gallas, John D.; and Hofmeister, Richard J., 3,703,323.
 Gay, Michael J., 3,688,220.
 Gay, Michael J., 3,700,921.
 Geyer, Harry J.; and Helda, Robert W., 3,698,620.
 Gilchrist, Forbes D., 3,702,433.
 Glasser, James R.; and Tomsa, Stanley J., 3,660,765.
 Goetz, Frederick J., Jr.; and Piazza, Emanuel F., 3,650,584.
 Goetz, Frederick J., Jr., 3,651,257.
 Grenon, Lawrence A., 3,660,669.
 Griffey, Donald E., 3,700,796.
 Groth, Edward John, Jr., 3,701,018.
 Gunn, David L.; and Hanus, George M., 3,641,441.
 Gurtler, Richard W.; and Saltich, Jack L., 3,699,407.
 Hakes, Glade L., 3,693,302.
 Hanley, Harold G.; and Williamson, Edward E., 3,699,612.
 Hansen, Robert B.; and Slavik, William H., 3,657,729.
 Hansen, Robert B.; Ivas, Thomas W.; and Slavik, William H., 3,668,306.
 Havens, Richard Calvin, 3,688,219.
 Hays, Robert G., 3,679,502.
 Hays, Robert Guy; Pennell, Charles Ronald; Reed, Edwin Emmett; and Volk, Charles Edward, 3,690,969.
 Helda, Robert W., 3,698,073.
 Helda, Robert W.; and Geyer, Harry J., 3,698,074.
 Helda, Robert W., 3,698,618.
 Hilbert, Francis H., 3,652,950.
 Hoffman, Albert Louis; and Longstaff, Derek Elden, 3,649,882.
 Hollingsworth, Gale C.; and Steffel, Ronald V., 3,641,451.
 Hollingsworth, Gale C., 3,652,947.
 Huber, William B., 3,636,782.
 Huber, William B., 3,662,123.
 Huber, William B., 3,690,198.
 Huber, William B., 3,702,192.
 Huber, William B., 3,705,270.
 Hutchinson, Thomas R.; and Caper, Edward J., 3,668,528.
 Hutchinson, Thomas R.; and Lombard, Marco Hans, 3,693,089.
 Jacobs, Paul H.; Peay, Robert L.; and Wisherd, David S., 3,662,294.
 Jarvela, Gary N.; and Pyle, Loren L., 3,631,836.
 Jarvela, Gary Nicholas; and Klink, Howard Nassime, 3,690,290.
 Johnson, Robert Henry, 3,701,158.
 Kern, Neil C., 3,688,313.
 Kern, Neil C., 3,688,701.
 Kiehl, Kenneth; and Milleker, William, 3,653,000.
 Kingsbury, Keith M., 3,656,159.
 Kingsley, John T., 3,698,076.
 Kline, Arthur J., Jr., 3,696,306.
 Kramer, Don A., 3,657,579.
 Kubala, Robert, 3,659,141.
 Lace, Melvin A.; and Repay, Laszlo N., 3,647,986.
 Lace, Melvin A., 3,658,225.
 Lace, Melvin A., 3,661,336.
 Lace, Melvin A., 3,663,755.
 Lace, Melvin A., 3,696,260.
 Lace, Melvin A., 3,698,615.
 Lincoln, Milan L., 3,692,225.
 Linder, Donald L., 3,694,776.
 London, Arnold, 3,703,669.
 Long, Ernest L., 3,693,107.
 Lowry, Robert Arthur, Jr.; and Smith, Billy Eual, 3,702,787.
 Lunn, Gerald K., 3,641,450.
 Lunn, Gerald K., 3,697,685.
 Lunn, Gerald K., 3,700,977.
 Marley, Robert R., 3,700,915.
 McDonald, James A., 3,688,193.
 Millington, Raymond J.; and Rezek, John R., 3,686,635.
 Moisand, Brian H.; and Schilb, William A., 3,651,379.
 Moore, George G., 3,702,440.
 Munn, Robert J., 3,641,435.
 Musa, Fuad H., 3,676,801.
 Nation, Melvin S., 3,641,395.
 Neis, Donald A., 3,649,328.
 Nilssen, Ole K., 3,692,007.
 Nilssen, Ole K., 3,699,817.
 Nordbrock, Raymond E., 3,697,859.
 Olah, Emery E., 3,667,302.
 Olah, Emery E., 3,703,833.
 O'Neal, Donald V., 3,668,937.
 O'Neal, Donald V.; and Kizielewski, Edward T., 3,677,630.
 Palac, Kazimir, 3,677,791.
 Palac, Kazimir, 3,700,948.
 Parker, Norman W.; and Schafft, Hugo W., 3,697,788.
 Peterson, James W.; and Tempka, John A., 3,696,210.
 Peterson, James W.; and Tempka, John A., 3,702,379.
 Petri, Chris A., 3,706,908.
 Phillips, Robert A., 3,663,860.
 Phillips, Ronald, 3,650,125.
 Philofsky, Elliott M.; and Ritchie, Kim, 3,647,935.
 Reed, L. J., 3,665,342.
 Reinert, John R., 3,706,043.
 Repay, Laszlo N., 3,648,526.
 Rezek, John R.; and Yackish, Thomas M., 3,644,757.
 Riff, James A., 3,641,416.
 Riff, James A., 3,673,489.
 Riff, James A., 3,673,588.
 Ritchie, Kim; and Malkiewicz, Yvonne Cecile, 3,666,729.
 Robinson, Peter T., 3,698,985.
 Rogers, Leo C.; Nikirk, Roger G.; and Heitz, Alfred J., 3,679,470.
 Rollins, Thomas J., 3,651,404.
 Rugg, James M., 3,667,009.
 Ruthenberg, Ross E.; and Spells, Joseph W., Jr., 3,646,397.
 Ryan, George H.; and Randolph, Ross W., 3,654,555.
 Saddler, Ivan R.; and Tucker, Robert W., 3,683,379.
 Salava, Roger F., 3,681,760.
 Saltich, Jack L.; and Rutledge, James L., 3,668,481.
 Sanera, Arthur E., 3,640,197.
 Sarallo, John F.; and Shetzley, George W., 3,651,407.
 Schafft, Hugo W., 3,676,722.
 Schendel, Donald D., Jr., 3,676,712.
 Schmidt, Bernard H., Jr., 3,668,425.
 Schmidt, Bernard H., Jr., 3,683,202.
 Schuette, Gunter G.; and Warner, William J., 3,636,936.
 Schuette, Gunter G., 3,671,805.
 Seelbach, Walter C.; and Lampathakis, Kyriakose, 3,706,130.
 Shelton, Philip L., 3,691,563.
 Single, David, 3,647,522.
 Slavik, William H., 3,644,669.
 Spanjer, Keith Gordon, 3,685,784.
 Spies, Rolf E., 3,678,412.
 Stessel, Martin C., 3,632,938.
 Stiles, Charles W., 3,701,055.
 Terry, Lewis E., 3,649,503.
 Thompson, James E., 3,638,041.
 Thompson, James E., 3,643,110.
 Thompson, James E., 3,644,835.
 Thompson, James E., 3,649,929.
 Thompson, James E.; and D'Amato, Gerald J., 3,699,568.
 Thompson, James Elbert, 3,665,343.
 Thurnell, Orville D., 3,633,137.
 Vargas, Robert J., 3,699,940.
 Walsh, Raymond L., 3,657,932.
 White, Winston Wayne, 3,694,747.
 Wilcox, Milton E., 3,644,749.
 Wilcox, Milton E., 3,693,111.
 Wilcox, Milton E., 3,697,883.
 Wilson, Richard W., 3,649,734.
 Wright, Larry R., 3,699,457.
 Zobel, Don William, 3,699,464.
 Motorola, Inc., mesne: See—
 Ransom, Lloyd D., 3,637,443.
 Motose, Takami: See—

Shogo, Shimizu; Motose, Takami; Yamazaki, Syu; Komatsu, Michiyasu; and Yamamoto, Hiroshi, 3,661,536.
 Mototani, Hideo: See—
 Suzuki, Reiichi; Tahara, Tadasu; and Mototani, Hideo, 3,674,769.
 Motoyama, Kazuyasu; Sawaki, Ryoichi; and Nakamura, Takeaki, to Olympus Optical Co., Ltd. Device using a recording jack for preventing erasure of recorded information from magnetic tape in a tape recorder, 3,696,217, 10-3-72, Cl. 179-100.20d.
 Motoyoshi, Kenya, to Sumitomo Electric Industries, Ltd. Sintered chromium steel and process for the preparation thereof, 3,698,877, 10-17-72, Cl. 29-182.000.
 Motoyoshi, Minoru: See—
 Kumai, Ko; Motoyoshi, Minoru; Tanaka, Kiyoshi; and Hagiwara, Yasuhira, 3,671,337.
 Motoyuki, Inous, to Nippon Toki Kabushiki Kaisha. Method of manufacturing low thermal-expansion porcelain, 3,650,817, 3-21-72, Cl. 117-118.
 Motroni, Philip J.: See—
 Michals, Chester S.; and Motroni, Philip J., 3,640,166.
 Motsinger, Russell E.; and Smith, Edwin B., to General Electric Company. Reduction of gas turbine engine noise annoyance by modulation, 3,693,749, 9-26-72, Cl. 181-33.00f.
 Mott, Carl W., to Mott Corporation. Mower blade and connection therefor, 3,678,668, 7-25-72, Cl. 56-294.000.
 Mott, Carl W.; deceased (by Mott, Elsie Viola; Mott, Carl Wheeler, Jr.; Hart, Elnora Mott; Battles, Dorothy Mott; Halgren, Phyllis Mott; and Mott, Elmer Samuel; heirs), to Mott Corporation. Blade connecting means, 3,698,168, 10-17-72, Cl. 56-294.000.
 Mott, Carl Wheeler, Jr.: See—
 Mott, Carl W., 3,698,168.
 Mott Corporation: See—
 Mott, Carl W., 3,678,668.
 Mott, Carl W., 3,698,168.
 Mott, Elmer Samuel: See—
 Mott, Carl W., 3,698,168.
 Mott, Elsie Viola: See—
 Mott, Carl W., 3,698,168.
 Mott, George E., to Texaco Inc. Marine platform foundation member, 3,643,446, 2-22-72, Cl. 61-46.5.
 Mott, George E., to Texaco Inc. Marine platform, 3,653,219, 4-4-72, Cl. 61-46.5.
 Mott, George E., to Texaco Inc. Subsea fluid processing facility, 3,656,307, 4-18-72, Cl. 61-63.
 Mott, George E., to Texaco Inc. Anchor for buoyant marine structures, 3,667,239, 6-6-72, Cl. 61-46.5.
 Mott, George E.; and Ziobler, Johnnie J., to Texaco Inc. Marine platform with curved support leg, 3,685,300, 8-22-72, Cl. 61-465.000.
 Mott, George E., to Texaco Inc. Subsea pipe laying apparatus and method, 3,685,306, 8-22-72, Cl. 61-72.300.
 Mott, George F.; and Ziobler, Johnnie J., to Texaco Inc. Marine drilling structure with curved drill conductor, 3,670,507, 6-20-72, Cl. 61-46.500.
 Mott, George R.; and Van Wagner, Edward M., to Xerox Corporation. Reflex xerographic imaging system, 3,676,118, 7-11-72, Cl. 96-1.500.
 Mott, James: See—
 Zehr, Richard M.; Mott, James; and Schlimgen, Lawrence, 3,665,399.
 Mott, James A.: See—
 Fierle, Robert J.; Mott, James A.; Oles, Herbert E.; and Reed, George A., 3,688,689.
 Mott, James D.: See—
 Todd, William L.; and Mott, James D., 3,667,557.
 Mott, James D.; and Feazle, Richard B., to Fluor Ocean Services, Inc. Apparatus for laying pipelines, 3,680,342, 8-1-72, Cl. 72-161.000.
 Mott, Lambert H. Apparatus for forming porous seamless tubing, 3,632,243, 1-4-72, Cl. 425-78.
 Mott, Lambert H. Process for air roller manufacture, 3,657,782, 4-25-72, Cl. 29-148.40d.
 Mott, Ludwig; Muller, Richard; Dinges, Karl; and Krauss, Heinz-Walter, to Farbenfabriken Bayer Aktiengesellschaft. Thermosetting reflow resins of copolymers of alkyl methacrylates, 3,696,063, 10-3-72, Cl. 260-17.00r.
 Mott, Murray H.: See—
 O'Daniel, Stephen A.; Mott, Murray H.; and Jones, Robert W., 3,655,997.
 Mott, Murray H.; Wehner, Donald R.; and Roome, Albert T., to United States of America, Navy. Method and apparatus for recording high range resolution radar data, 3,662,388, 5-9-72, Cl. 343-55.00a.
 Mott, Ralph B., Jr.: See—
 Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; and Cantella, Richard C., 3,639,944.
 Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; and Cantella, Richard C., 3,650,555.
 Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; and Cantella, Richard C., said Cantella assor. to Reserv-A-Roll Co. Hinge arrangement in-

cluding a partially concealed means for securing with a swinging door, 3,639,944, 2-8-72, Cl. 16-153.
 Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; and Cantella, Richard C., to Reserv-A-Roll Co. Door latch with a concealed self-securing arrangement, 3,650,555, 3-21-72, Cl. 292-145.
 Mott, Richard C., to Honeywell Inc. Hydrodynamic pump, 3,669,561, 6-13-72, Cl. 415-90.000.
 Mott, Willard. Automatic engine starter, 3,696,333, 10-3-72, Cl. 340-52.00r.
 Motta, Alfredo. Method and device for uniting wood strips together, 3,705,452, 12-12-72, Cl. 29-155.00r.
 Motta, Nathaniel, to California Institute of Technology. Apparatus for fine adjustment of signal frequency, 3,643,419, 2-22-72, Cl. 58-23.
 Motter, Robert Franklin, to Eastman Kodak Company. Process of sensitizing converted-type silver halide emulsions with noble metal salts, 3,703,584, 11-21-72, Cl. 96-108.000.
 Mottern, Henry O.: See—
 Heiberger, Charles A.; and Mottern, Henry O., 3,670,056.
 Mottern, Henry O.; and Russell, James P., to Air Products and Chemicals, Inc., mesne. Method of producing unsaturated esters, 3,642,878, 2-15-72, Cl. 260-497.
 Mottern, John W.: See—
 Otstot, Roger S.; and Mottern, John W., 3,645,657.
 Mottier, Francois: See—
 Iten, Paul Dominik; and Mottier, Francois, 3,675,029.
 Mottier, Francois, to Aktiengesellschaft Brown, Boveri & Cie. Method for producing holograms of moving objects, 3,661,437, 5-9-72, Cl. 350-3.5.
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 Mottin, Ralph E.: See—
 Graham, Richard J.; Mottin, Ralph E.; and Noren, Oscar B., 3,664,495.
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 Motz, Carl H.: See—
 Anthony, Russell W.; and Motz, Carl H., 3,677,052.
 Bregi, Benjamin F.; Motz, Carl H.; and Bassoff, Arthur B., 3,659,335.
 Motz, Carl H.; Tersch, Richard W.; and Bassoff, Arthur B., to Lear Siegler, Inc. Internal gear rolling machine, 3,636,744, 1-25-72, Cl. 72-91.
 Motz, Fred J.; and Shufan, Stephen, to United States Steel Corporation. Soaking pit, 3,667,409, 6-6-72, Cl. 110-173.00a.
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 Motz, Jurgen: See—
 Kraemer, Friedrich; Mandel, Jorn; Mayer, Siegfried; Rohrig, Klaus; Schulz, Hans-Peter; Weidenmuller, Hilmar; Haverkamp, Klaus Dieter; and Motz, Jurgen, 3,664,826.
 Motz, Kaye L.; and Lundeen, Allan J., to Continental Oil Company. Inhibition of polymer and olefin formation during aluminum trialkyl growth reaction, 3,657,301, 4-18-72, Cl. 260-448.
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 Mouchart, Jacques: See—
 Guillet, Hubert; Jacob, Louis; Mouchart, Jacques; and Sturel, Bernard, 3,663,087.
 Mouchart, Jacques, to Compagnie Generale d'Electricite. Concentration objective composed of four lenses, 3,633,985, 1-11-72, Cl. 350-2.
 Mouchart, Jacques, to Compagnie Generale d'Electricite. Apparatus for detecting small rotations, 3,635,563, 1-18-72, Cl. 356-114.
 Moudry, Gilbert A.: See—

- Hilton, Ralph W.; and Moudry, Gilbert A., 3,706,118.
 Mouglin, George, to Sodeteg, Inc. Building construction of material therebetween. 3,678,638, 7-25-72, Cl. 52-79,000.
 Mouille, Rene Louis, to Societe Nationale Industrielle Aerospatiale. Rotor hubs on rot ry wing aircraft. 3,679,322, 7-25-72, Cl. 416-141,000.
 Moulard, Rene Andre Louis: *See—*
 Neale, Michael John; and Gotch, Henry Edward, 3,701,475.
 Mould, Peter R.: *See—*
 Johnson, Thomas E., Jr.; and Mould, Peter R., 3,706,026.
 Mould, Richard J.: *See—*
 Shepard, George A.; and Mould, Richard J., 3,642,586.
 Moulding, Kenneth William: *See—*
 Gill, Brian; and Moulding, Kenneth William, 3,688,132.
 Moulding, Kenneth William, to U.S. Philips Corporation. Semiconductor integrated circuits. 3,697,784, 10-10-72, Cl. 307-303,000.
 Mouldings, Inc.: *See—*
 Rash, James T., 3,650,377.
 Moulds, Gordon M., to Du Pont de Nemours, E. I., and Company. Porous aromatic polyamide fiber. 3,695,992, 10-3-72, Cl. 161-178,000.
 Moulds, John W.: *See—*
 Eckert, Clarence J.; and Moulds, John W., 3,670,709.
 Eckert, Clarence J.; and Moulds, John W., 3,684,318.
 Moule, David John: *See—*
 Jackson, Thomas Meirion; Bush, Eric Langley; Rowe, Thomas John; and Moule, David John, 3,650,796.
 Moulin, Jean: *See—*
 Dallet, Bernard; Doucerain, Jacques; and Moulin, Jean, 3,646,304.
 Moulin, Jean; Doucerain, Jacques; and Dallet, Bernard, to Societe de Traitements Electrolytiques et Electrothermiques (S.T.E.L.). Apparatus for inductors for induction heating. 3,632,948, 1-4-72, Cl. 219-10,79.
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 Moulin, Jean, to Societe de Traitements Electrolytiques et Electrothermiques (Stel). Inductor arrangement for induction heating application particularly for brazing presses. 3,704,357, 11-28-72, Cl. 219-10,790.
 Moulin, Louis: *See—*
 Aronica, Claude S.; and Moulin, Louis, 3,671,632.
 Moulin, Norbert L., to Hughes Aircraft Company. Hardness testing machine. 3,669,261, 6-13-72, Cl. 209-74,000.
 Moulinauge et Retorderie de Chavanoz: *See—*
 Chatin, Remy, 3,683,607.
 Neveux, Jacques, 3,685,273.
 Raschle, Josef, 3,638,413.
 Seguin, Pierre, 3,643,300.
 Seguin, Pierre, 3,665,095.
 Seguin, Pierre, 3,685,268.
 Moulinauge et Retorderie de Chavanoz, mesnc: *See—*
 Raschle, Josef, 3,673,782.
 Mouloupoulos, Spyridon, to University of Utah. Catheter mounted artificial heart valve for implanting in close proximity to a defective natural heart valve. 3,671,979, 6-27-72, Cl. 3-1,000.
 Moulson, Donald C.: *See—*
 Murray, Donald R.; Van Soest, Cornelius J. M.; and Moulson, Donald C., 3,690,412.
 Moulton, Alexander Eric; and Harman, Harold, to Moulton Developments Limited. Vehicle suspension unit. 3,669,225, 6-13-72, Cl. 188-298,000.
 Moulton, David M.: *See—*
 Novack, Robert L.; Moulton, David M.; and Juda, Walter, 3,669,752.
 Moulton Developments Limited: *See—*
 Moulton, Alexander Eric; and Harman, Harold, 3,669,225.
 Moulton, Frederick T.: *See—*
 McLaughlin, Richard T.; Talbot, Frederick G.; Kurtzo, Lawrence E., Jr.; and Moulton, Frederick T., 3,632,892.
 Moulton, H Douglass. Three-wheeled electrically propelled cart. 3,648,795, 3-14-72, Cl. 180-27.
 Moulton Irrigation Company: *See—*
 Moulton, Thomas S., 3,704,827.
 Moulton, Richard D.; and Schieven, Stanley R.; deceased (by Schieven, Arline E.; executrix), to Eastman Kodak Company. Photographic film assemblage. 3,707,117, 12-26-72, Cl. 95-19,000.
 Moulton, Thomas S., to Moulton Irrigation Company. Self propelled irrigation system. 3,704,827, 12-26-72, Cl. 239-177,000.
 Moultrie, Charles W. Rear view optical train and dove prism. 3,659,927, 5-2-72, Cl. 350-286.
 Mounce, William R.: *See—*
 Gregoli, Armand A.; and Mounce, William R., 3,698,876.
 Mounce, William R., to Cities Service Research and Development Company. Heavy oil hydrogen treating process. 3,645,887, 2-29-72, Cl. 208-96.
 Mouneydiere, Robert, to Creusot-Loire. Bogies of chassis for rolling stock with a plurality of axles. 3,691,962, 9-19-72, Cl. 105-182,00r.
 Mounier, Bruce. Impact actuated underwater gun. 3,664,052, 5-23-72, Cl. 42-1,001.
 Mount, Bruce Elson; and Massie, Harold Lee, to Hoffmann-La Roche Inc. Reconstruction of reflecting surface velocity and displacement from doppler signals. 3,663,932, 5-16-72, Cl. 340-1,00r.
 Mount, Gordon L.: *See—*
 Lavigne, William J., Jr.; and Mount, Gordon L., 3,638,445.
 Mount, Gordon L., to Carrier Corporation. Auxiliary lubricating system. 3,637,048, 1-25-72, Cl. 184-6.1.
 Mount, Gordon L.; and Endress, James W., to Carrier Corporation. Refrigerant cooling system for electric motor. 3,645,112, 2-29-72, Cl. 62-505.
 Mount, Gordon L., to Carrier Corporation. Capacity control mechanism for centrifugal gas compressors. 3,672,786, 6-27-72, Cl. 415-147,000.
 Mount, Gordon L.; and Endress, James W., to Carrier Corporation. Oil dilution control. 3,705,499, 12-12-72, Cl. 62-84,000.
 Mount Hope Machinery Company: *See—*
 Bassani, Mariano, 3,693,336.
 Koster, Klaus, 3,673,647.
 Robertson, J. Douglas, 3,665,572.
 Mount Hope Machinery Company, Incorporated: *See—*
 Hannaway, John H., 3,636,598.
 Mount, Robert E.: *See—*
 Aaron, Charles; Mount, Robert E.; and DeGelleke, Gerri, 3,680,804.
 Mount Sinai Research Foundation, Inc.: *See—*
 Ornstein, Leonard, 3,633,171.
 Mounter, Anthony Edmund: *See—*
 Reeves, Alec Harley; Ramsay, Melvin Murray; Mounter, Anthony Edmund; and Laurence, Simon French, 3,705,307.
 Mountfield, Brian Arthur: *See—*
 English, Geoffrey; and Mountfield, Brian Arthur, 3,669,910.
 Mountford, Alan Reginald: *See—*
 Lowen, Michael David; and Mountford, Alan Reginald, 3,636,833.
 Mounts, Francis E.: *See—*
 Grolitzer, Arthur J.; and Mounts, Francis E., 3,678,459.
 Mounts, Frank William: *See—*
 Candy, James Charles; Franke, Gladys Marie; and Mounts, Frank William, 3,670,096.
 Mounts, Frank William Colts: *See—*
 Limb, John Ormond; and Mounts, Frank William Colts, 3,662,266.
 Mouquin, Paul-Louis, to Valjoux S.A. Time-piece with a calendar indicator and chronograph mechanism. 3,675,412, 7-11-72, Cl. 58-188,000.
 Mourey, Jean-Jacques; and Badertscher, Ernest, to Societe d'Assistance Technique pour Produits Nestle S.A. Production of casein by passage through a duct with a constriction. 3,705,143, 12-5-72, Cl. 260-120,000.
 Mourey, Michele Yvonne Christiane: *See—*
 Mandineau, Daniel Paul Henri; Mourey, Michele Yvonne Christiane; Pizzini, Georges Philippe Henri; and Poulain, Jacques Constant, 3,668,017.
 Mouri, Katsuo; Miyazaki, Gentaro; and Nabeyama, Hiroaki, to Hitachi, Ltd. Voltage controlled oscillator. 3,691,475, 9-12-72, Cl. 331-8,000.
 Mourier, Emile, to Rhone-Poulenc S.A. Purification of dehydrinalool by fractional distillation and water washing. 3,640,851, 2-8-72, Cl. 203-42.
 Mouric, Emile. Process for producing acetylenic alcohols. 3,700,740, 10-24-72, Cl. 260-631,500.
 Mouritzen, Gunnar, to Geoscience Limited. Transportation system. 3,669,026, 6-13-72, Cl. 104-118,000.
 Mourkakos, George M. Apparatus for fabrication of swabs. 3,698,040, 10-17-72, Cl. 19-145,300.
 Moulon, Jean-Claude; and Dubois, Ernest Marie Rene, to Bertin & Cie. Method and apparatus for recovering a substance floating as a sheet on the surface of a liquid mass. 3,635,342, 1-18-72, Cl. 210-84.
 Mourning, James R.: *See—*
 Cashin, William F.; and Mourning, James R., 3,673,867.
 Mourning, Marion P., to Gulf Oil Corporation. Fluid catalytic cracking in a dense catalyst bed. 3,650,946, 3-21-72, Cl. 208-120.
 Moury, Pierre, to Jeumont-Schneider. Current chopper for DC machines connected to the terminals of a source having an inductive impedance. 3,634,728, 1-11-72, Cl. 317-16.
 Moussalli, Francis S., to Celanese Corporation. Cellulose acetate and nylon fibers containing thiorea dyesites. 3,632,363, 1-4-72, Cl. 106-186.
 Moussalli, Francis Selim, to Celanese Corporation. Procedure for dry cleaning. 3,640,881, 2-8-72, Cl. 252-171.
 Mousseau, Daniel J.; and Larsen, Charles A., to Gorton Machine Corporation. Tool change mechanism. 3,691,626, 9-19-72, Cl. 29-568,000.
 Mousseron, Max J., to Etablissements Clin-Byla. Nitrofurylacrylidene derivatives. 3,644,344, 2-22-72, Cl. 260-240.
 Mousseron, Max J., to Etablissements Clin-Byla. Substituted thiazolidine-4-ones. 3,678,041, 7-18-72, Cl. 260-240,00a.

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 Moussette, Oliver, to M. G. Dynamics, Inc. Manual magnetic recorder. 3,644,685, 2-22-72, Cl. 179-100.2.
 Moussoulos, Lucas S. High recovery production of rich FeNi alloys in a converter. 3,647,418, 3-7-72, Cl. 75-82.
 Moustafa, Troidorf: *See—*
 Vollkommer, Norbert; Ismail, Roshdy; and Moustafa, Troidorf, 3,691,138.
 Mouton, Rene P.: *See—*
 Burcin, Robert J.; Johnson, Orville L.; and Mouton, Rene P., 3,682,501.
 Mouton, William J., Jr., 20% to Kronlage, Charles A., Jr. and 40% to Gillen, Gerard J., Jr. Sectional pile and coupling means. 3,651,653, 3-28-72, Cl. 61-53.
 Moutonnier, Claude: *See—*
 Farge, Daniel; Messer, Mayer Naoum; and Moutonnier, Claude, 3,641,127.
 Farge, Daniel; Messer, Mayer Naoum; and Moutonnier, Claude, 3,652,666.
 Mouw, Robert B., to Aertech. Wideband detector for use in coaxial transmission lines. 3,693,103, 9-19-72, Cl. 329-162,000.
 Movitex (Signs) Limited: *See—*
 Kuna, Joseph, 3,657,458.
 Movor & Coulson Limited: *See—*
 Comley, Peter Donald Heywood, 3,638,781.
 Mowai, Lois E., to Ittek Corporation. Physical development systems, processes and related materials. 3,645,736, 2-29-72, Cl. 96-48.
 Mowat, Keith B.; and Heyn, William O., to Chicago Rawhide Manufacturing Company. Oil seal with pumping action. 3,640,542, 2-8-72, Cl. 277-134.
 Mowatt-Larsen, Erling: *See—*
 Price, Albert E.; and Mowatt-Larsen, Erling, 3,662,692.
 Mowbot Inc.: *See—*
 Bellinger, S. Lawrence, 3,698,523.
 Mowbray, Dorian Farrar: *See—*
 Dillon, Stanley Bernard; Mowbray, Dorian Farrar; and Kamp, Kenneth Albert Walters, 3,679,846.
 Mower, Frederick J.: *See—*
 Brennan, Leon E.; Mower, Frederick J.; Place, Fred A.; Shanks, David A.; Simpson, Neville H.; and Zander, William L., Sr., 3,634,899.
 Mower, Peter: *See—*
 Smithers, Philip G. K.; and Mower, Peter, 3,634,902.
 Mowers, Robert G.: *See—*
 Grutsch, James F.; Mallatt, Russell C.; and Mowers, Robert G., 3,680,847.
 Mowery, James R.: *See—*
 Branton, Donald L.; and Mowery, James R., 3,667,499.
 Mowogrozki, Markus: *See—*
 Russo, Paul; and Mowogrozki, Markus, 3,675,093.
 Mowrey, Albert C.; Huiskes, John H.; and Brand, Abraham, to General Instrument Corporation. Magnetic holddown for magnetic disc system. 3,706,085, 12-12-72, Cl. 340-174,10c.
 Mowrey, Rowland G.: *See—*
 Bent, Richard L.; and Mowrey, Rowland G., 3,656,950.
 Bent, Richard L.; and Mowrey, Rowland G., 3,658,525.
 Mowrey, Rowland G., to Eastman Kodak Company. Photographic stabilizer compositions. 3,676,136, 7-11-72, Cl. 96-56,000.
 Mowrey, Rowland G.; Stephen, Keith H.; and Wolfarth, Eugene F., to Eastman Kodak Company. Compositions for making blixes. 3,706,561, 12-19-72, Cl. 96-60,0bf.
 Mowry, David T.: *See—*
 Hedrick, Ross M.; and Mowry, David T., 3,637,491.
 Mowry, Harry E.; Ricardo, Louis A.; and Carricato, Guy V., to Miller Printing Machinery Co. Sheet gripping device. 3,637,202, 1-25-72, Cl. 271-51.
 Mowry, Harry E.; Carricato, Guy V.; and Richard, Louis A., to Miller Printing Machinery Co. Printing press nonstop side register mechanism. 3,663,011, 5-16-72, Cl. 271-49.
 Mowry, Harry E., to Miller Printing Machinery Co. Cutter and creaser. 3,699,831, 10-24-72, Cl. 83-94,000.
 Mowry, Warren E., to Georgia-Pacific Corporation. Preparation of corrugating linerboard. 3,644,167, 2-22-72, Cl. 161-125.
 Moxham, Robert M.: *See—*
 Tanner, Allan B.; Senfle, Frank E.; and Moxham, Robert M., 3,702,932.
 Moxness, James G.; Nelson, Harold H.; and Mara, Edward A. O., to Minnesota Mining and Manufacturing Company. Copying and duplicating apparatus. 3,706,489, 12-19-72, Cl. 355-3,000.
 Moxness Products, Inc.: *See—*
 Perras, Colette, 3,681,787.
 Moy, Harry F., to Friedrich Refrigerators Incorporated. Combined air and evaporator temperature control means for air conditioner apparatus. 3,636,724, 1-25-72, Cl. 62-215.
 Moyant, Donald A., to Atlas Chemical Industries, Inc. Explosively activated glass valve. 3,670,925, 6-20-72, Cl. 222-3,000.
 Moyer, Carolyn S.: *See—*
 Gentile, Richard W.; and Moyer, Wayne B., 3,631,672.
 Moyer, Charles E., Jr., to Union Carbide Corporation. Lactam polymerization with allophanoyl halide initiators. 3,671,499, 6-20-72, Cl. 260-78,001.
 Moyer, Donald W.: *See—*
 Swanson, William C.; Moyer, Donald W.; and Asmus, Rodger W., 3,699,678.
 Moyer, Hallard C.: *See—*
 Fauber, Eugene M.; and Moyer, Hallard C., 3,655,563.
 Moyer, Henry F.; and Revells, Robert G., to Libbey-Owens-Ford Company. Soldering apparatus. 3,685,714, 8-22-72, Cl. 228-6,000.
 Moyer, James D.: *See—*
 Anke, Rudolph G.; and Moyer, James D., 3,698,210.
 Hegeman, Rutledge G.; and Moyer, James D., 3,702,548.
 Moyer, James D., to North American Rockwell Corporation. Pattern mechanism for circular knitting machines. 3,675,445, 7-11-72, Cl. 66-50,00b.
 Moyer, John R.; and Moore, William G., to Dow Chemical Company, The. Bleaching composition. 3,639,248, 2-1-72, Cl. 252-186.
 Moyer, Joseph D., to Grace, W. R., & Co. Process for preparing nitrilotriacetic acid triamide. 3,655,754, 4-11-72, Cl. 260-561.
 Moyer, Richard E. Mushroom slicer. 3,664,398, 5-23-72, Cl. 146-129,00r.
 Moyer, Robert C., to United States Steel Corporation. Apparatus for continuously processing wire or the like including vibrating means. 3,644,189, 2-22-72, Cl. 204-209.
 Moyer, Robert G., to Union Carbide Corporation. Cooling system pressure tester. 3,650,147, 3-21-72, Cl. 73-49,7.
 Moyer, Ronald C.: *See—*
 Holland, Dewey G.; Moyer, Ronald C.; Polevy, John H.; and Walde, Robert A., 3,699,156.
 Moyer, Ronald C.; and Uffner, Melville W., to Air Products and Chemicals, Inc. Functional surface coating compositions for cellulosic material. 3,664,987, 5-23-72, Cl. 260-78,5.
 Moyer, Ronald C.; and Uffner, Melville W., to Air Products and Chemicals, Inc. Functional surface coating compositions for cellulosic material. 3,706,590, 12-19-72, Cl. 117-111,00b.
 Moyer, Ronald G.; and Emory, Thomas M., Jr., to Digi-Log Systems, Inc. Transistor ignition system. 3,705,988, 12-12-72, Cl. 307-10,00r.
 Moyer, Rudolph H.: *See—*
 Anderson, Howard H.; Moyer, Rudolph H.; Sibbett, Donald J.; and Sutherland, David C., 3,640,624.
 Anderson, Howard H.; Moyer, Rudolph H.; Sibbett, Donald J.; and Sutherland, David C., 3,659,100.
 Anderson, Howard H.; Moyer, Rudolph H.; Sibbett, Donald J.; and Sutherland, David C., 3,700,896.
 Witz, Samuel; Carleton, Lee T.; Anderson, Howard H.; Moyer, Rudolph H.; and Neufeld, Harold A., 3,690,837.
 Moyer, Rudolph H.; and Sibbett, Donald J., to Geomet, Incorporated. Method and apparatus for quantitating enzyme activity. 3,663,374, 5-16-72, Cl. 195-103,50r.
 Moyer, Wayne B.: *See—*
 Gentile, Richard W.; and Moyer, Wayne B., 3,631,672.
 Moyer, William H., to Eaton Yale & Towne, Inc. Torque-transmitting device. 3,641,375, 2-8-72, Cl. 310-105.
 Moyle, Clarence L.; and Chern, Diomed M., to Dow Chemical Company, The. 3-Alkoxy-4-aryloxy-cis-crotonic acid esters. 3,651,123, 3-21-72, Cl. 260-473.
 Moyle, Henry Dinwoodey, Jr.; and Bates, William. Cancer test specimen gathering device. 3,664,328, 5-23-72, Cl. 128-2.
 Moyle, Kenneth J.; and Mann, Richard S., to Intersil Incorporated, mesne. Semiconductor device packaging. 3,706,840, 12-19-72, Cl. 174-52,0pe.
 Moyné, Jose M.: *See—*
 Leheureau, Jean; and Moyné, Jose M., 3,689,529.
 Moynihan, Daniel J.: *See—*
 Hebert, Richard A.; Moynihan, Daniel J.; Paul, Donald E.; Petrovic, Louis J.; Rubel, Peter A.; and Seferian, Ralph, 3,663,283.
 Moynihan, John J. Adjustable sleeve for sun visors. 3,649,068, 3-14-72, Cl. 296-97.
 Moyroud, Louis M. Phototypesetting machines. 3,641,887, 2-15-72, Cl. 95-4,5.
 Moyroud, Louis M. Photographic type composing machine. 3,643,559, 2-22-72, Cl. 95-4,5.
 Moyroud, Louis M. Photocomposing machine and keyboard having line length conversion feature. 3,646,602, 2-29-72, Cl. 95-4,5.
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 Moyroud, Louis M. Photocomposing machine. 3,695,156, 10-3-72, Cl. 95-4,500.
 Moyroud, Louis M. Photocomposing machine. 3,703,138, 11-21-72, Cl. 95-4,50r.
 Moysse, Gaston, to Moysse S.A. Linear motor powered railway. 3,631,808, 1-4-71, Cl. 104-148.
 Moysse S.A.: *See—*
 Moysse, Gaston, 3,631,808.
 Moysey, John A.: *See—*
 De Santis, Alfred J.; Beers, Le Roy W.; White, James A.; and Moysey, John A., 3,680,058.

Moses, Alexander. Hygienic device for detecting unintentional urination. 3,678,928, 7-25-72, Cl. 128-138.000.

Mozhaev, Arkady Ivanovich: *See—*

Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Burtsev, Pavel Semenovich; Yanchevsky, Kazimir Stanislavovich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny oiseevich; and Khaidurov, Leonid Konstantinovich, 3,656,810.

Mozier, Edna G. Restaurant arrangement including dining tables on simulated boats. 3,701,224, 10-31-72, Cl. 52-27.000.

Mozley, Richard Henry: *See—*

Muller, Leslie Dyne; Sayles, Charles Philip; and Mozley, Richard Henry, 3,674,144.

Mozokhin, Nikolai G.; Maskenskov, Konstantin Mikhailovich; Kerimov, Niyazi Abdulkasim Ogly; Guseinova, Zuleikha Ismail Kyzy; Mekhtiev, Rafik Isrofil Ogly; and Evert, Garri Volodimirovich, to Gorkovskiy Avtomobilny Zavod. System of fuel injection and precombustion-chamber spray ignition in piston and rotary-piston internal combustion engines. 3,682,146, 8-8-72, Cl. 124-325.00p.

Mozzi, Henry J., Jr., to Stewart-Warner Corporation. Web coating control. 3,649,340, 3-14-72, Cl. 117-111.

MPB Corporation: *See—*

Gordon, Keith M., 3,685,342.

MPL, Inc.: *See—*

Gores, Kenneth W., 3,662,457.

MPM-Materiali Protettivi Milano S.r.l.: *See—*

Stella, Gianfranco, 3,655,612.

Mr. Christmas, Incorporated: *See—*

Hermanson, Terry, 3,639,196.

Tedeschi, Armand E., Jr., 3,706,435.

Mr. Culloch Corporation: *See—*

Anderson, Harold E., 3,695,235.

Mr. Gardemer Enterprises Ltd.: *See—*

Grotz, Edward C., 3,648,933.

Mr. Gasket Company: *See—*

Bieber, William J., 3,636,793.

Mracek, Jaroslav: *See—*

Jannett, Frederick Joseph; and Mracek, Jaroslav, 3,681,139.

Mras, Raymond J.: *See—*

Dahlman, Frederick A.; and Mras, Raymond J., 3,634,060.

Mras, Veronika: *See—*

Wirth, Hermann Otto; Friedrich, Hans Helmut; and Mras, Veronika, 3,658,860.

Mrazek, Dale A., to National Semiconductor Corporation. High speed MOS sense amplifier. 3,648,071, 3-7-72, Cl. 307-237.

Mross, Siegfried: *See—*

Aubert, Michel; Mross, Siegfried; and Grossheim, Hans, 3,673,552.

Mrotek, Edward Norman: *See—*

Halsall, Vincent Michael; and Mrotek, Edward Norman, 3,652,341.

Mrozek, Pawel K., to RCA Corporation. Temperature compensated crystal oscillator. 3,641,461, 2-8-72, Cl. 331-116.

Mrozik, Helmut, to Merck & Co., Inc. Liver fluke compositions containing salicylic acid derivatives. 3,646,202, 2-29-72, Cl. 424-232.

MRT Magnet-Regeltechnik GmbH: *See—*

Hallmann, Hermann, 3,681,727.

Mrugala, Joseph V., to Sylvania Electric Products, Inc. Pressurized universal holding device. 3,700,226, 10-24-72, Cl. 269-22.000.

Mrugala, Theodore A., to Warner & Swasey Company, The, mesne. Grinding wheel guard. 3,690,074, 9-12-72, Cl. 51-269.000.

Mrugala, Theodore A.; and Kruck, Henry, to Warner & Swasey Company, The, mesne. Loader for mounting grinding wheels. 3,696,487, 10-10-72, Cl. 29-200.00d.

Mruk, Walter F., to MDC Technology Corporation. Automatic tension control apparatus. 3,648,338, 3-14-72, Cl. 28-36.

MSE Holdings Limited: *See—*

Walker, Peter Martin Brabazon, 3,652,860.

MSL Industries, Inc.: *See—*

Heob, Norvel J.; and Stoor, Jon D., 3,644,066.

Heob, Norvel J., 3,663,849.

Laverty, Richard C., 3,703,843.

Swados, Harrison G., 3,638,279.

Willis, Arnold L.; and Wortman, Harold, 3,660,964.

Willis, Arnold L., 3,673,757.

Mssrs. E. G. O. Elektro-Gerste Blaore u. Fischer: *See—*

Fischer, Karl; and Schreder, Felix, 3,684,862.

M.T.A. Kozponti Fizikai Kutató Intézet: *See—*

Horvath, Aurel; Repasi, Gellert; Szabo, Elek; and Vorsatz, Bruno, 3,661,559.

Mte-Contractor (Components) Limited: *See—*

Olley, Norman Harry, 3,675,168.

MTS Systems Corporation: *See—*

Petersen, Niel R., 3,680,594.

Petersen, Niel R., 3,690,168.

Muceniks, Paul R.; and Muyskens, Dirk J., to FMC Corporation. Desmutting etched aluminum alloys. 3,692,583, 9-19-72, Cl. 134-3.000.

Muceniks, Paul Raimond: *See—*

Cohen, Bernard; and Muceniks, Paul Raimond, 3,649,159.

Mucha, George M.: *See—*

Balzer, Norbert R.; and Mucha, George M., 3,659,069.

Muchlinski, Donald A.: *See—*

Andrews, La Vern A.; and Muchlinski, Donald A., 3,699,573.

Mucka, John R.; and Dickinson, William H., to Auburn Engineering Inc. Apparatus for shrink-wrapping. 3,707,064, 12-26-72, Cl. 53-183.000.

Mucke, Bruno; Lohmer, Karl; and Gold, Heinrich, to Agfa-Gevaert Aktiengesellschaft. Process for hardening protein layers. 3,645,743, 2-29-72, Cl. 96-111.

Muckelroy, William L.: *See—*

Bailey, John P.; and Muckelroy, William L., 3,691,497.

Mudrik, Josef: *See—*

Plechac, Bohoslav; Ambroz, Miroslav; and Mudrik, Josef, 3,643,339.

Mudroch, Otokar: *See—*

Addinall, Ramon L.; Lewis, William T.; and Mudroch, Otokar, 3,679,513.

Mueckter, Heinrich: *See—*

Graudums, Ivars; Mueckter, Heinrich; and Frankus, Ernst, 3,703,162.

Mueggenburg, Hans H.: *See—*

Mitchell, James H.; and Mueggenburg, Hans H., 3,664,588.

Muehlbauer, Heinz A.: *See—*

Garrett, Dwight A.; and Muehlbauer, Heinz A., 3,669,280.

Muehlbauer, James H.: *See—*

Koch, Robert L., II; and Muehlbauer, James H., 3,660,266.

Muehllehner, Gerd, to Nuclear-Chicago Corporation. Radiation imaging apparatus. 3,683,185, 8-8-72, Cl. 250-71.50r.

Muehllehner, Gerd, to Nuclear-Chicago Corporation. Tomographic imaging device using a rotating slanted multichannel collimator. 3,684,886, 8-15-72, Cl. 250-71.505.

Muela Negro, Carmen. Construction of filters. 3,667,606, 6-6-72, Cl. 210-193.000.

Mueller, Alexander: *See—*

Thomas, Hubert L.; and Mueller, Alexander, 3,632,795.

Mueller, Alfred: *See—*

Distler, Harry; Widder, Rudi; Stanger, Bernd; Mueller, Alfred; and Druschke, Wolfgang, 3,687,886.

Mueller, Allen H.: *See—*

Paap, Hans J.; Pitts, Robert W.; and Mueller, Allen H., 3,681,601.

Mueller, Arthur Jacob: *See—*

Wu, Yao Hua; and Mueller, Arthur Jacob, 3,697,553.

Mueller, Arthur P., to Panacorp Corporation. Corrosion-inhibiting thermal insulation for stainless steel. 3,639,276, 2-1-72, Cl. 252-62.

Mueller, Arthur R., Jr. Stripping machine. 3,670,939, 6-20-72, Cl. 225-99.

Mueller, Bruce M.: *See—*

Gray, Don N.; and Mueller, Bruce M., 3,663,155.

Mueller, Bruce M., to Owens-Illinois, Inc. Staining plastic surfaces. 3,707,347, 12-26-72, Cl. 8-4.000.

Mueller, Charles A., to Interco Incorporated. Sequentially operative item releasing display apparatus. 3,637,107, 1-25-72, Cl. 221-3.

Mueller, Charles L., to TRW Inc. Form gage lean adapter. 3,650,035, 3-21-72, Cl. 33-174.

Mueller, Charles L., to TRW Inc. Automatic grinding machine. 3,704,551, 12-5-72, Cl. 51-5.000.

Mueller, Clair W., to Rex Chainbelt Inc. Method of forming a conveyor chain link having knuckles formed integrally with edge. 3,706,200, 12-19-72, Cl. 59-35.000.

Mueller Co.: *See—*

Gould, Wallace E.; and Cassimatis, Peter N., 3,680,180.

Hackman, Frank C., 3,700,008.

Hauffe, William L.; and Finney, Robert R., 3,684,242.

Leopold, Wilbur R.; Hackman, Frank C.; Floren, Carl E.; and Gould, Wallace E., 3,687,492.

Leopold, Wilbur R., Jr.; Smith, John J.; Hackman, Frank C.; Luckenbill, Lawrence F.; and Daghe, Joseph L., 3,633,873.

Leopold, Wilbur R., Jr.; Smith, John J.; Hackman, Frank C.; Luckenbill, Lawrence F.; and Daghe, Joseph L., 3,662,778.

Luckenbill, Lawrence F.; and Hackman, Frank C., 3,669,475.

Roos, Robert R., 3,633,599.

Roos, Robert R., 3,677,578.

Roos, Robert R., 3,692,614.

Mueller, Curt: *See—*

Altermatt, Rudolf; Entschel, Roland; and Mueller, Curt, 3,671,529.

Entschel, Roland; Kaeppli, Viktor; and Mueller, Curt, 3,632,302.

Entschel, Roland; Mueller, Curt; and Siegrist, Hans, 3,634,389.

Mueller, Curt; and Zirngibl, Ulrich, to Sandoz Ltd., a/k/a Sandoz AG. Disperse dyes of the naphthylene-benzimidazole series. 3,632,589, 1-4-72, Cl. 260-282.

Mueller, Daniel L., to Xerox Corporation. Apparatus for conveying sheet material. 3,642,362, 2-15-72, Cl. 355-3.

Mueller, David E.; and Segura, Marnell A., to Esso Research and Engineering Company. Method of protecting reduced iron ore by coating. 3,690,930, 9-12-72, Cl. 117-100.00b.

Mueller, Everett C. Wind deflector for chimneys and the like. 3,641,914, 215-72, Cl. 98-66.

Mueller, Floyd F., to American Hospital Supply Corporation. Control system for hospital bed. 3,697,846, 10-10-72, Cl. 318-544.

Mueller, Francis E.: *See—*

Kuckein, Paul A.; and Mueller, Francis E., 3,633,202.

Mueller, Francis E., to International Business Machines Corporation. Method for aligning magnetic heads for use in recording a master disk pack. 3,665,437, 5-23-72, Cl. 340-174.10c.

Mueller, Francis E., to International Business Machines Corporation. Positioning system including servo track configuration and associated demodulator. 3,691,543, 9-12-72, Cl. 340-174.10b.

Mueller, Francis X., Jr.: *See—*

Hsieh, Henry L.; and Mueller, Francis X., Jr., 3,639,519.

Mueller, Francis X., Jr.; and Brown, James D., to Phillips Petroleum Company. Organoaluminum compounds as adjuvants in an organocalcium initiated polymerization of conjugated dienes and/or monovinyl aromatic compounds. 3,687,916, 8-29-72, Cl. 260-83.700.

Mueller, Frank H. Rotary plug valve. 3,687,416, 8-29-72, Cl. 251-164.000.

Mueller, Fred: *See—*

Buecheler, Paul; and Mueller, Fred, 3,679,685.

Mueller Fred S.: *See—*

Tanaka, Frederick K.; Mueller Fred S.; and Riddle, John B., 3,680,566.

Mueller, Frederick N., to Tetradyn Corporation. Method and apparatus for recovering impurities from the surface of a liquid. 3,659,713, 5-2-72, Cl. 210-83.

Mueller, Frederick N., to Tetradyn Corporation, mesne. Solids feeder system. 3,705,710, 12-12-72, Cl. 259-151.000.

Mueller, George R., to Case, J. I., Company. Luminous ammeter-voltmeter. 3,668,519, 6-6-72, Cl. 324-96.000.

Mueller, Gerhard; Doerfel, Helmut; and Schmidt-Thomae, Georg. Molding material from polyamide and acrylic ester of a α -aliphatic alcohol. 3,700,751, 10-24-72, Cl. 260-857.

Mueller, Gerhart Hermann: *See—*

Troeger, Gottfried; Mueller, Gerhart Hermann; Bachmann, Gerhard; Spoor, Herbert; and Batzill, Wolfgang, 3,697,461.

Mueller, Guenther, to Ciba Corporation. Process for the manufacture of a granular material containing oily or liquid therapeutically usable furanosesides. 3,655,870, 4-11-72, Cl. 424-80.

Mueller, Hans, to Grapha Maschinenfabrik Hans Mueller AG. Transfer apparatus. 3,679,072, 7-25-72, Cl. 214-6.00a.

Mueller, Hans J.: *See—*

Lawrence, George; and Mueller, Hans J., 3,688,285.

Mueller, Hans-Richard: *See—*

Seefelder, Matthias; and Mueller, Hans-Richard, 3,660,428.

Mueller, Herbert: *See—*

Overwien, Hermann; and Mueller, Herbert, 3,697,580.

Pommer, Horst; Mueller, Herbert; Mangold, Dietrich; and Palm, Christof, 3,637,817.

Pommer, Horst; Mueller, Herbert; Mangold, Dietrich; and Overwien, Hermann, 3,655,735.

Pommer, Horst; Mueller, Herbert; and Overwien, Hermann, 3,655,768.

Pommer, Horst; Mueller, Herbert; Koehl, Harald; and Overwien, Hermann, 3,658,911.

Stuebinger, Adolf; Mueller, Herbert; and Overwien, Hermann, 3,657,376.

Mueller, Herbert; Overwien, Hermann; Koehl, Harald; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 3-ketobutanol-(1). 3,662,001, 5-9-72, Cl. 260-594.

Mueller, Herbert; Koehl, Harald; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 2-methyl-2-hepten-6-one. 3,670,028, 6-13-72, Cl. 260-593.

Mueller, Herbert; and Overwien, Hermann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 2-methylhept-1-en-6-one. 3,686,321, 8-22-72, Cl. 260-593.00r.

Mueller, Herbert; Overwien, Hermann; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of alkenediols. 3,692,848, 9-19-72, Cl. 260-635.00r.

Mueller, Herbert; and Mangold, Dietrich. Production of 2-methyl-3-buten-2-ol. 3,696,155, 10-3-72, Cl. 260-642.000.

Mueller, Jacob: *See—*

Murray, James J.; and Mueller, Jacob, 3,682,185.

Mueller, James P.: *See—*

Hufeld, John L.; Larson, Donald J.; Marsden, Howard A.; Mueller, James P.; and Norick, William B., 3,680,588.

Mueller, Johannes: *See—*

Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,632,810.

Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,639,396.

Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,646,023.

Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Voser, Walter; Mueller, Johannes; and Peter, Heinrich, 3,661,901.

Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,686,172.

Bosshardt, Rolf; Fechtig, Bruno; Mueller, Johannes; Peter, Heinrich; and Bickel, Hans, 3,706,746.

Mueller, John J., to Air-Ject Corporation. Closure member and dispensing device. 3,656,660, 4-18-72, Cl. 222-94.

Mueller, John L., to Sparton Corporation. Tire bead lubricator. 3,658,152, 4-25-72, Cl. 184-1.

Mueller, Karl Robert: *See—*

Becht, Guenter; Kunde, Joachim; La France, Norman; and Mueller, Karl Robert, 3,707,344.

Mueller, Klaus P.: *See—*

Nisley, Larry V.; Mueller, Klaus P.; and Kreuter, Kenneth G., 3,693,706.

Mueller, Kurt F., to United States of America, Navy. Liquid bipropellant system using aqueous hydroxylammonium perchlorate oxidizer. 3,700,393, 10-24-72, Cl. 60-214.000.

Mueller, Kurt Hugo, to Bell Telephone Laboratories, Incorporated. Initialization of adaptive control systems. 3,676,804, 7-11-72, Cl. 333-18.000.

Mueller, Leonard E., 40% to Brown, Carl R. Ground effect vehicle. 3,687,217, 8-29-72, Cl. 80-120.000.

Mueller, Martin: *See—*

Byrd, Carl; and Mueller, Martin, 3,659,744.

Maus, Otfried; Mueller, Martin; and Mueller, Robert, 3,698,828.

Mueller, Martin, to Microwave Associates, Inc. Variable RF group delay equalizer. 3,699,480, 10-17-72, Cl. 333-28.000.

Mueller, Marvin C., to Whirl-Air-Flow Corporation. High pressure air and liquid blending method and apparatus for discrete materials. 3,653,639, 4-4-72, Cl. 259-4.

Mueller, Max B.: *See—*

Chandrasekaran, Swayambu; and Mueller, Max B., 3,706,723.

Mueller, Max B.; Salatiello, Peter P.; and Kaufman, Herman S., to Allied Chemical Corporation. Cold flow resistant homogeneous copolymers of tetrafluoroethylene and hexafluoropropene and process for preparing them. 3,655,611, 4-11-72, Cl. 260-41.

Mueller, Otto. Locks for securing axles to a differential. 3,651,713, 3-28-72, Cl. 74-713.

Mueller, Otto. Safety mechanism for pressure gauge. 3,675,487, 7-11-72, Cl. 73-414.000.

Mueller, Peter F., to Technical Operations, Incorporated. Optical processing of information including synthesis by complex amplitude addition of diffraction spectra. 3,664,248, 5-23-72, Cl. 95-122.

Mueller, Peter G.: *See—*

Martone, Ronald J.; Mueller, Peter G.; and Flis, Richard J., 3,683,180.

Martone, Ronald J.; and Mueller, Peter G., 3,697,753.

Mueller, Peter G., to Picker Corporation, mesne. Pulse height analyzer. 3,683,284, 8-8-72, Cl. 328-117.000.

Mueller, Ralph C. Molding device. 3,635,642, 1-18-72, Cl. 425-470.

Mueller, Reinhold: *See—*

So, Richard T.; and Mueller, Reinhold, 3,706,966.

Mueller, Richard A.: *See—*

Morin, Robert B.; Spry, Douglas O.; Hauser, Kenneth L.; and Mueller, Richard A., 3,644,502.

Mueller, Richard Arno, to Gesellschaft fur Kernforschung mbH. Fuel element bundle for nuclear reactors. 3,658,646, 4-25-72, Cl. 176-78.

Mueller, Robert: *See—*

Maus, Otfried; Mueller, Martin; and Mueller, Robert, 3,698,828.

Mueller, Rolf K.: *See—*

Chambers, Harold L.; Marom, Emanuel; and Mueller, Rolf K., 3,666,884.

Marom, Emanuel; and Mueller, Rolf K., 3,631,713.

Mueller, Rolf K.; and Emanuel, Marom, to Bendix Corporation, The. Hologram synthesis using a displaceable reference point source. 3,698,787, 10-17-72, Cl. 350-3.500.

Mueller, Rolf K., to Bendix Corporation, The. Method and apparatus for providing an enhanced image of an object. 3,704,931, 12-5-72, Cl. 350-3.500.

Mueller, Rudolph C.: *See—*

Samuels, Abe; Mueller, Rudolph C.; and Marzec, Casimir C., 3,682,550.

Samuels, Abe; and Mueller, Rudolph C., 3,684,280.

Mueller, Thomas L.: *See—*

Gutmann, Paul F., Jr.; and Mueller, Thomas L., 3,690,270.

Mueller, Werner H.: *See—*

Mich, Thomas F.; and Mueller, Werner H., 3,636,099.

Mueller, Werner H.; Hicks, John J., Jr.; and Campbell, Charles R., to Monsanto Company. Preparation of adipic acid by nitric acid oxidation of nitrosocyclohexane dimer. 3,636,100, 1-18-72, Cl. 260-537.

Mueller, Werner H.; Campbell, Charles R.; and Hicks, John J., Jr., to Monsanto Company. Process of preparing adipic acid by the nitric acid oxidation of cyclohexane. 3,654,355, 4-4-72, Cl. 260-533.

Mueller, William A.; and Swidler, Ronald, to Armour Industrial Chemical Company. Process for production of aliphatic acids. 3,637,478, 1-25-72, Cl. 204-162.

Mueller, William J.: *See—*

Farnham, Norman W.; Mueller, William J.; and Gorall, Donald J., 3,640,219.

- Mueller, William J.; Berry, David A.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., to United States of America, Agriculture. Synthetic rubber compositions tackified by modified pine gum. 3,634,352, 1-11-72, Cl. 260-27.
- Mueller, William N. Time saver drawup collar. 3,672,709, 6-27-72, Cl. 285-419,000.
- Mueller, Willy: *See—*
Ronco, Karl; and Mueller, Willy, 3,657,219.
Ronco, Karl; and Mueller, Willy, 3,658,785.
- Mueller, Willy, to Ciba-Geigy AG. Water-insoluble azo-compounds containing a carboxamino-carboxystyryl group. 3,684,792, 8-15-72, Cl. 260-155,000.
- Mueller, Willy; Ronco, Karl; and Mory, Rudolf, to Ciba-Geigy AG. Disazo pigments. 3,691,149, 9-12-72, Cl. 260-174,000.
- Mueller, Wolfgang H.: *See—*
Oswald, Alexis A.; and Mueller, Wolfgang H., 3,687,830.
- Mueller, Wolfgang H.; Thaler, Warren A.; and Oswald, Alexis A., to Esso Research and Engineering Company. S-2-hydrocarbylthio-alkyl esters of thiophosphorus acids. 3,660,543, 5-2-72, Cl. 260-948.
- Mueller-Tamm, Heinz: *See—*
Frielingsdorf, Hans; Mueller-Tamm, Heinz; and Mahling, Dieter, 3,634,166.
Frielingsdorf, Hans; Mueller-Tamm, Heinz; and Mahling, Dieter, 3,684,610.
Trieschmann, Hans-Georg; Rau, Wolfgang; Mueller-Tamm, Heinz; and Pfannmueller, Helmut, 3,634,382.
- Mueller-Tamm, Heinz; and Hofmann, Alfred, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Laminated metal plates. 3,655,504, 4-11-72, Cl. 161-165.
- Mueller-Tamm, Heinz; and Hofmann, Alfred, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Laminating metal to polyolefin with an organic peroxide and a terpolymer of ethylene, t-butyl acrylate and acrylic acid. 3,663,334, 5-16-72, Cl. 156-309.
- Muellner, Frank E.; and Sarkozi, Lewis P., to Nus Corporation. Nuclear reactor fuel rod support grid. 3,679,546, 7-25-72, Cl. 176-78,000.
- Muench, Charles A., to Forecast, Inc. Centrifugal casting machine. 3,651,858, 3-28-72, Cl. 164-286.
- Muench, Nils L.; and Murphy, Charles B., to General Motors Corporation. Series lamp safeguard circuit. 3,639,805, 2-1-72, Cl. 315-122.
- Muench, Paul W.: *See—*
Hopkins, Neil E.; and Muench, Paul W., 3,640,084.
- Muenchinger, Herman G., to Research Engineering & Manufacturing, Inc. Self-thread forming threaded fasteners and method and apparatus for making the same. 3,681,963, 8-8-72, Cl. 72-88,000.
- Muenger, James R., to Texaco Inc. Heat exchange apparatus. 3,666,423, 5-30-72, Cl. 23-288.
- Muenger, James R., to Texaco Inc. Water-gas shift conversion process. 3,666,682, 5-30-72, Cl. 252-373,000.
- Muftic, Mahmud: *See—*
Gutsche, Klaus; and Muftic, Mahmud, 3,632,584.
Philippson, Rainer; Gibian, Heinz; Muftic, Mahmud; and Kaspar, Emanuel, 3,639,433.
- Mughannam, Adil A., to FMC Corporation. Container re-orienting mechanism. 3,662,870, 5-16-72, Cl. 198-29.
- Mugnier, Michel: *See—*
Gassmann, Hans Ulrich; and Mugnier, Michel, 3,699,804.
- Muhe, Ludwig: *See—*
Zerna, Wolfgang; and Muhe, Ludwig, 3,696,573.
- Muhl, Gerhard, to Hellige, Fritz & Co., G.m.b.H. Electrolytically conductive paste. 3,658,726, 4-25-72, Cl. 252-518.
- Muhlbach, Anton; and Lauckhardt, Gerhard, to USM Corporation. Method for rounding welded edge seams. 3,673,300, 6-27-72, Cl. 264-160,000.
- Muhlbach, Anton; and Fichtner, Rudi, to USM Corporation. Heel support for a shoe lasting machine. 3,683,439, 8-15-72, Cl. 12-14,400.
- Muhlbauer, Ernst A., to Zahn-Porzellan KG E. Muhlbauer & Co. Duplex capsule for dental filling material. 3,651,932, 3-28-72, Cl. 206-47.
- Muhlbauer, Ernst A., to Zahn-Porzellan KG E. Muhlbauer & Co. Multiplex capsule for dental filling materials. 3,655,035, 4-11-72, Cl. 206-47.
- Muhlbauer, Herbert George, to Jefferson Chemical Company, Inc. Method for the preparation of piperazind and substituted piperazines. 3,639,403, 2-1-72, Cl. 260-268.
- Muhlbock, Siegfried: *See—*
Nitsch, Ernst; and Muhlbock, Siegfried, 3,707,534.
- Muhleisen, Wilhelm. Non-cold-flowable unsaturated polyester resin composition. 3,642,673, 2-15-72, Cl. 260-22.
- Muhleman, Ernst, to Werkzeugmaschinenfabrik Oerlikon-Bührle AG. Firing rate regulator for a gas-operated firearm. 3,680,434, 8-1-72, Cl. 89-193,000.
- Muhlemann, Ernst; and Bruun, Jean Eskild, to Werkzeugmaschinenfabrik Oerlikon-Bührle AG. Gas-operated automatic firearm having thermal firing rate control. 3,690,219, 9-12-72, Cl. 89-193,000.
- Muhler, Joseph C., to Indiana University Foundation. Oral compositions and methods for retarding dental caries and calculus. 3,666,855, 5-30-72, Cl. 424-52,000.
- Muhler, Joseph C., to Indiana University Foundation. Dental prophylaxis composition comprising alumina of particular particle size. 3,670,076, 6-13-72, Cl. 424-157,000.
- Muhler, Joseph C., to Indiana University Foundation. Anticariogenic dental amalgam. 3,676,112, 7-11-72, Cl. 75-173,00r.
- Muhler, Joseph C., to Plastek Company. Interdental stimulator. 3,698,388, 10-17-72, Cl. 128-62,00a.
- Muhler, Joseph C.; and Stookey, George K., to Indiana University Foundation. Impregnated article for cleaning the interproximal surfaces of the teeth. 3,699,979, 10-24-72, Cl. 132-89,000.
- Muhlfeld, Frank J. Apparatus for teaching electrical concepts. 3,667,137, 6-6-72, Cl. 35-19.
- Muhlhausen, Cornelius: *See—*
Konig, Klaus; Muller, Erwin; Kallert, Wilhelm; and Muhlhausen, Cornelius, 3,640,967.
- Meisert, Ernst; Awater, Albert; Muhlhausen, Cornelius; and Dobreiner, Uwe, 3,684,770.
- Muhlhauser, Otto, to Gesellschaft für Kernforschung mbH. Spring of stacked dished plates. 3,653,653, 4-4-72, Cl. 267-165.
- Muhlmann, Christa: *See—*
Gentsch, Erich; Bederke, Klaus; Seider, Walter; Fullner, Hans Jürgen; and Muhlmann, Christa, 3,700,483.
- Mui, Billy Y. K., to Korfund Dynamics Corporation. Air support. 3,667,707, 6-6-72, Cl. 248-20,000.
- Mui, Jeffrey Y. P.; and Bennett, Everett W., to Union Carbide Corporation. Process for producing vinylchlorosilanes. 3,666,782, 5-30-72, Cl. 260-448,2.
- Mui, Wing F.: *See—*
Eddy, John W.; Fitch, Harold G.; Mui, Wing F.; and Valente, Angelo M., 3,681,537.
- Muir, Douglas William Ballantyne, to Iwne Findley Limited. Displacement transducer with inductive sensing head and means providing separate displacement and direction signals. 3,684,961, 8-15-72, Cl. 324-34,00d.
- Muir, Earl B.: *See—*
Singer, Robert B.; Muir, Earl B.; and Kotzar, Andrew J., 3,654,822.
- Muir, Earl B., to White Motor Corporation. Torque and speed control governor. 3,667,439, 6-6-72, Cl. 123-140,0mc.
- Muir, Joseph A.: *See—*
Hansen, Charles M.; Muir, Joseph A.; and Leyh, Jeffrey R., 3,637,470.
- Muir, Robert D.: *See—*
Kraychy, Stephen; Marsheck, William J.; and Muir, Robert D., 3,684,657.
- Muirhead, Duncan Ronald; and Michell, Douglas Allison, to Power-Gas Corporation Limited. The Fluidised bed incinerators. 3,702,595, 11-14-72, Cl. 110-8,00r.
- Muirhead Limited: *See—*
Farr, Gerald; Anderson, Frances M.; and Phillips, Eric Thomas Arthur, 3,652,793.
Marshman, Graham Edward, 3,691,296.
Willmet, John Stanley; and Anderson, Francis Maurus, 3,662,103.
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- Muka, Edward, to Eastman Kodak Company. Loop control device. 3,650,447, 3-21-72, Cl. 226-34.
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Naito, Kenji; Okudo, Hiroshi; Ogino, Katsuhiko; Tanaka, Michio; Kamatani, Yoshio; Mukai, Hiroshi; and Takeuchi, Tatsuro, 3,660,456.
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Mukai, Kazue; and Odahara, Hisao (said Odahara assor. to said), 3,694,947.
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Miyachi, Tsuneshige; Hirano, Jiro; Ueki, Atsufumi; Tatsumi, Ryuji; Mukai, Kunihiro; and Yoshikawa, Shogo, 3,655,259.
- Mukai, Kunio: *See—*

- Tsuchiya, Hiroshi; Horiuchi, Fukashi; Mukai, Kunio; Kimura, Akio; and Nishizawa, Yoshihiko, 3,636,144.
- Mukai, Minoru: *See—*
Ishida, Hiroshi; and Mukai, Minoru, 3,706,369.
Kaneko, Keiji; Shoji, Kitamaru; and Mukai, Minoru, 3,706,180.
- Mukai, Noboru: *See—*
Kawai, Masanobu; and Mukai, Noboru, 3,682,778.
Kawai, Masanobu; and Mukai, Noboru, 3,694,316.
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Nakanishi, Michio; Kobayashi, Ryosuke; Abe, Kozo; and Mukai, Toshihiko, 3,641,060.
Nakanishi, Michio; and Mukai, Toshihiko, 3,702,333.
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Watanabe, Shigeo; Sogi, Toshiyuki; and Mukai, Tsuneo, 3,678,982.
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Graifer, Valery Isaakovich; Komarov, Alexandr Ivanovich; Lysenko, Vladimir Dmitrievich; Mingareev, Ravkhat Shagimardanovich; and Mukharsky, Enver Davydovich, 3,664,418.
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Vlasov, Viktor Griogorievich; Berezentsev, Jury Sergeevich; Mukhin, Vladimir Vanovich; and Kravchenko, Zhorzh Yakovlevich, 3,699,572.
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Ciscery, Sigmund M.; and Mulaskey, Bernard F., 3,655,798.
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Hardesty, Edwin C.; Krumreich, Charles L.; Mulbarger, Albert E., Jr.; and Walen, Stephen W., 3,699,498.
- Mulby, Lloyd A. Two speed steering system. 3,688,860, 9-5-72, Cl. 180-79,20b.
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- Mulcahy, Harry W.; Bushnell, Eldon W.; and Kaim, John W., to Amsted Industries, Incorporated. Multiple unit brake. 3,679,028, 7-25-72, Cl. 188-202,000.
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Schmitz, Albert; Mulder, Cornelis; and Slob, Arie, 3,702,428.
- Mulder, Cornelis. Voltage amplifier. 3,694,762, 9-26-72, Cl. 330-24,000.
- Mulders, Julien; and Godfrine, Pierre, to Solvay & Cie. Selective production of dichloroethane. 3,652,693, 3-28-72, Cl. 260-662.
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Engler, Otto; Hammer, Theodor; and Muler, Meinhard, 3,684,619.
- Mulera, Thomas G.: *See—*
Kesseling, Donald J.; and Mulera, Thomas G., 3,641,679.
- Mulford, Charles T.: *See—*
Belk, Wilber C.; and Mulford, Charles T., 3,656,526.
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Jachimek, Thomas P.; and Mulford, Jack A., 3,705,423.
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Appleton, Anthony Derek; Wood, Michael Burke; and Mulhall, Brian Edward, 3,639,793.
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- Mulkens, Casper Antonius Henricus: *See—*
- Hardeman, George Eduard Gerard, 3,707,325.
- Wrona, Carl; and Heylands, Wilhelmus Frinciscus Aloysius, 3,653,601.
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Hiday, David R.; and Mull, Ralph L., Jr., 3,679,990.
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- Mullaly, Jerome R., to General Electric Company. Voltage responsive switch. 3,675,045, 7-4-72, Cl. 307-235,000.
- Mullaney, Jerry Allen, to Illinois Tool Works Inc. Torque Limiting nut. 3,691,897, 9-19-72, Cl. 85-62,000.
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- Mullen, James F. Mechanical hand. 3,694,021, 9-26-72, Cl. 294-106,000.
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- Mullen, Joseph F., to Combustion Engineering, Inc. High moisture content fuel dispersion apparatus. 3,640,232, 2-8-72, Cl. 110-7.
- Mullen, Lewis O.; and Sullivan, Donald B., to United States of America, National Aeronautics and Space Administration. Electrical insulating-layer process. 3,649,356, 3-14-72, Cl. 117-217.
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Mullens, Thomas R.; and Glave, Trevor J. (said Glave assor. to said), 3,694,810.
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- Muller, Albert G. Insulation cable cutter. 3,688,404, 9-5-72, Cl. 30-91,200.
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- Muller, Andrew N.: *See—*
Tiner, Nathan A.; and Muller, Andrew N., 3,642,519.
- Muller, Armand A. Umbrella construction. 3,683,947, 8-15-72, Cl. 135-20,00b.
- Muller, Arthur. Parenteral iron preparations. 3,686,397, 8-22-72, Cl. 424-180,000.
- Muller, Curt G. Fastener means. 3,640,173, 2-8-72, Cl. 85-8,8.
- Muller, Dieter: *See—*
Arndt, Heinz-Herbert; Schadel, Jürgen; and Muller, Dieter, 3,633,076.
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- Muller, Donald Sinclair. Grouting. 3,688,507, 9-5-72, Cl. 61-36,000.
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- Muller, Ernst; and Maurer, Albrecht, to Bizerba-Werke Wilhelm Kraut KG. Slicing machine and clamping device therefor. 3,702,150, 11-7-72, Cl. 146-102,00r.
- Muller, Ernst Willi: *See—*
Wilke, Günther; and Muller, Ernst Willi, 3,641,175.
- Muller, Erwin: *See—*
Hagemann, Hermann; Muller, Erwin; and Fischer, Peter, 3,692,813.
Konig, Klaus; Muller, Erwin; Kallert, Wilhelm; and Muhlhausen, Cornelius, 3,640,967.
Konig, Klaus; Muller, Erwin; and Holschmidt, Hans, 3,644,457.
Logemann, Heino; Meckel, Walter; and Muller, Erwin, 3,642,751.
Meckel, Walter; and Muller, Erwin, 3,681,290.
Ott, Karl-Heinz; Schuster, Herbert; Meckel, Walter; Dinges, Karl; and Muller, Erwin, 3,641,209.
Von Bonin, Wulf; Muller, Erwin; and Wagner, Kuno, 3,637,909.

- Wirth, Wolf-Dieter; and Muller, Erwin, 3,674,837.
Witt, Harro; Holtschmidt, Hans; and Muller, Erwin, 3,642,866.
Muller, Erwin; and Thoma, Wilhelm, to Farbenfabriken Bayer Aktiengesellschaft. Elastomeric polyurethanes from polycarbonates. 3,639,354, 2-1-72, Cl. 260-77.5.
Muller, Erwin; and Heydkamp, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Hydrazine-carboxylic acid esters and process for the production thereof. 3,663,603, 5-16-72, Cl. 260-482.
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Muller, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of O-acyl-N-methylol-amide. 3,703,540, 11-21-72, Cl. 260-490,000.
Muller, Friedrich, to Aristo-Werke Dennert & Pape KG. Gear having a detachable plastic rim. 3,651,708, 3-28-72, Cl. 74-447.
Muller, Fritz: *See—*
Credner, Hans-Heinrich; Glockner, Hans; Muller, Fritz; and Kunitz, Friedrich Wilhelm, 3,658,537.
Muller, Fritz; Stendenbach, Karl-Heinz; and Weizenkorn, Horst-Heinrich. Process and apparatus for use in the work-up of waste water containing phosphorus sludge. 3,684,461, 8-15-72, Cl. 23-293,00r.
Muller, Frohmut: *See—*
Brinkmann, Gerhard; and Muller, Frohmut, 3,661,450.
Muller, Georg, Kugellagerfabrik K.G.: *See—*
Titt, Georg, 3,643,768.
Muller, George H.: *See—*
Barton, David W.; and Muller, George H., 3,638,985.
Muller, Georges; and Bardoneschi, Roland, to Roussel-UCLAF. 1-Oxa-A-nor-steroids. 3,676,461, 7-11-72, Cl. 260-343.300.
Muller, Gerd: *See—*
Kugler, Manfred; Muller, Gerd; and Schwarz, Gunter, 3,637,193.
Muller, Gerhard: *See—*
Neumann, Wolfram; Muller, Gerhard; Ranz, Erwin; Von Rintelen, Harald; and Schutz, Heinz-Dieter, 3,671,252.
Ranz, Erwin; Von Rintelen, Harald; Neumann, Wolfram; and Muller, Gerhard, 3,681,075.
Ranz, Erwin; Von Rintelen, Harald; Schutz, Heinz-Dieter; Muller, Gerhard; and Neumann, Wolfram, 3,694,208.
Sohlemann, Just; and Muller, Gerhard, 3,681,961.
Muller, Gerhard, to Metzeler AG. Method of producing rectangular cross-sectional-polyurethane foam materials. 3,632,706, 1-4-72, Cl. 264-51.
Muller, Guenther: *See—*
Hunger, Alfred; and Muller, Guenther, 3,651,205.
Muller, Hans: *See—*
Hoegger, Anton, 3,674,146.
Sommer, Reinhold, 3,687,471.
Muller, Hans, to Grapha Maschinenfabrik Hans Muller AG. Apparatus for loading sheets on a conveyor. 3,661,380, 5-9-72, Cl. 271-14,000.
Muller, Hans, to Grapha Maschinenfabrik Hans Muller AG. Variable speed drive mechanism. 3,690,208, 9-12-72, Cl. 83-643,000.
Muller, Hans. Device for separating foam into its constituent liquid and gaseous phases. 3,693,325, 9-26-72, Cl. 55-178,000.
Muller, Hans, Dr., Ing., Chemie-Apparatebau: *See—*
Guazzone, Bruno, 3,693,803.
Muller, Hans Joachim; and Bruckner, Horst, to Erdolchemie Gesellschaft mit beschränkter Haftung. Process for the purification of pyrolytic gas mixtures. 3,707,065, 12-26-72, Cl. 55-32,000.
Muller, Hans-Jorg, to Linde Aktiengesellschaft. Piston assembly for pumps, motors and the like. 3,656,414, 4-18-72, Cl. 92-249.
Muller, Heinz: *See—*
Sennwald, Kurt; Wesselmann, Rudolf; Holler, Ernst; and Muller, Heinz, 3,702,887.
Muller, Heinz K., to Sealol, Inc. Barrier seal with self regulating buffer. 3,659,860, 5-2-72, Cl. 277-59,000.
Muller, Heinz-Dieter, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung. Flight control circuit for missile spinning about its longitudinal axis. 3,647,162, 3-7-72, Cl. 244-3.2.
Muller, Helmut, to Voith Getriebe KG. Dual-engine vehicle and method of operating the same. 3,645,351, 2-29-72, Cl. 180-54.
Muller, Helmut; and Pisl, Gustav, to Voith Getriebe KG. Hydrodynamic reversing gear. 3,677,004, 7-18-72, Cl. 60-54,000.
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Muller, Henry, to Bio/Data Corporation. Apparatus for monitoring body temperature and controlling a heating device to maintain a selected temperature. 3,667,476, 6-6-72, Cl. 128-399,000.
Muller, Herbert Ewald: *See—*
Merk, Fritz; Debus, Gerhard; and Muller, Herbert Ewald, 3,645,823.
Muller, Hermann: *See—*
Schindling, Josef; and Muller, Hermann, 3,635,003.
Wilsch, Herbert; and Muller, Hermann, 3,675,996.
Muller, Hermann. Supporting column. 3,698,564, 10-17-72, Cl. 211-86,000.
Muller, Hermann E., Dr., Metallwarenfabrik Bergneustadt GmbH: *See—*
Buhne, Klaus, 3,692,058.
Muller, Horst: *See—*
Eggersperger, Heinz; Franzen, Volker; Muller, Horst; and Stephan, Hans, 3,637,802.
Muller, Jacques. Filtering and aerating jet breaker. 3,679,054, 7-25-72, Cl. 210-95,000.
Muller, Jacques. Automatic water draining device for fuel filter. 3,685,655, 8-22-72, Cl. 210-114,000.
Muller, Jakob. Needle loom for pile fabrics. 3,707,171, 12-26-72, Cl. 139-25,000.
Muller, Jean Jacques, to International Standard Electric Corporation. Normally silent mobile radio telephone system. 3,688,195, 8-29-72, Cl. 325-55,000.
Muller, Jean-Claude: *See—*
Hoegerle, Karl; Muller, Jean-Claude; Vogel, Christian; and Raumpf, Jurg, 3,646,136.
Muller, Jean-Nicolas: *See—*
Fischer, Artur; and Muller, Jean-Nicolas, 3,678,925.
Muller, Johannes; and Gaudry, Edouard, to Handtmann, A. cell pump, particularly for sausage filling machines. 3,631,565, 1-4-72, Cl. 17-37.
Muller, Johannes, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Molten salt carburizing process and replenishing salt for same. 3,635,768, 1-18-72, Cl. 148-15.5.
Muller, John T., to Leslie Co. Storage type hot water heating system. 3,670,807, 6-20-72, Cl. 165-39,000.
Muller, John Thomas; Scull, William L.; Cooper, James H.; and Soderberg, Curt A., to Leslie Co. Blending valve. 3,642,021, 2-15-72, Cl. 137-114.
Muller, Jurgen: *See—*
Thate, Kurt; and Muller, Jurgen, 3,647,596.
Waschk, Fritz; Muller, Jurgen; Krieger, Heinrich; and Heindrich, Gunter, 3,640,205.
Muller, Karl: *See—*
Hutz, Gerhard; and Muller, Karl, 3,690,801.
Muller, Karl. Loading device for processing machines. 3,659,693, 5-2-72, Cl. 198-20.
Muller, Karl, to Braun Aktiengesellschaft. Circuit arrangement for improving the signal-to-noise ratio of a stereo decoder. 3,673,342, 6-27-72, Cl. 179-15,00t.
Muller, Karl-Hans; and Kallrath, Gottfried, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Animal feed composition including milk exchange material. 3,632,352, 1-4-72, Cl. 99-2.
Muller, Karl-Hans, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for converting liquid antioxidants to pulverulent form. 3,644,215, 2-22-72, Cl. 252-404.
Muller, Karl-Heinz: *See—*
Forschner, Friedrich; Kurzhals, Hans; and Muller, Karl-Heinz, 3,661,480.
Muller, Karl-Heinz; Rohr, Harry; and Ott, Karl-Heinz, to Bayer Aktiengesellschaft. Pencil having a formed ABS polymer barrel. 3,704,071, 11-28-72, Cl. 401-96,000.
Muller, Klaus: *See—*
Ledden, Howard Patrick; and Muller, Klaus, 3,707,523.
Muller, Klaus-Dieter: *See—*
Scherep, Otto; Millauer, Hans; and Muller, Klaus-Dieter, 3,684,796.
Muller, Leslie Dyne; Sayles, Charles Philip; and Mozley, Richard Henry. Gravity separation of granular materials. 3,674,144, 7-4-72, Cl. 209-468,000.
Muller, Manfred, to Agfa-Gevaert Aktiengesellschaft. Delayed shutter release mechanism for photographic apparatus. 3,665,833, 5-30-72, Cl. 95-53,300.
Muller, Marcel: *See—*
Eder, Ulrich; Berndt, Hans-Dietlef; Kerb, Ulrich; Wiechert, Rudolf; Zollner, Georg; Buchschacher, Paul; Furlenmeier, Andre; Furst, Andor; and Muller, Marcel, 3,661,897.
Furst, Andor; Muller, Marcel; and Muller, Peter, 3,642,839.
Furst, Andor; Kagi, Dieter; Muller, Marcel; and Muller, Peter, 3,644,438.
Furst, Andor; Muller, Peter; Muller, Marcel; and Kagi, Dieter, 3,676,467.
Furst, Andor; Muller, Marcel; Muller, Peter; Schocher, Arno Johannes; and Bacher, Elisabeth, 3,700,702.
Muller, Meinhard: *See—*
Engler, Otto; and Muller, Meinhard, 3,632,943.
Muller, Michael, to Babcock Electronics Corporation. Compact electromagnetic relay. 3,694,777, 9-26-72, Cl. 335-128,000.
Muller, Paul: *See—*
Schmidt, Andreas; and Muller, Paul, 3,677,587.
Muller, Paul Adolf, to Celfil Company Establishment. Method and apparatus for producing a tobacco filter rod or cord from a web of fibrous material. 3,646,855, 3-7-72, Cl. 93-1.
Muller, Paul C.; and Schneider, Karl H., to Messrs. Paul Troester Maschinenbau. Method and apparatus for dielectric heating. 3,666,905, 5-30-72, Cl. 219-10,55.

- Muller, Peter: *See—*
Furst, Andor; Muller, Marcel; and Muller, Peter, 3,642,839.
Furst, Andor; Kagi, Dieter; Muller, Marcel; and Muller, Peter, 3,644,438.
Furst, Andor; Muller, Peter; Muller, Marcel; and Kagi, Dieter, 3,676,467.
Furst, Andor; Muller, Marcel; Muller, Peter; Schocher, Arno Johannes; and Bacher, Elisabeth, 3,700,702.
Gnagi, Alex; and Muller, Peter, 3,665,461.
Scheidweiler, Andreas; Muller, Peter; and Kuhn, Max, 3,681,603.
Muller, Pierre, to Laboratories de L'Ozothine. Process for the accelerated obtaining of terpenic oxides using ultraviolet light. 3,673,066, 6-27-72, Cl. 204-162,00r.
Muller, Reiner; and Achelpohl, Fritz, to Windmoller & Holscher. Pocket valve for valved bags made of plastics material sheeting and having crossed end closures. 3,680,770, 8-1-72, Cl. 229-62,500.
Muller, Richard: *See—*
Mott, Ludwig; Muller, Richard; Dinges, Karl; and Krauss, Heinz-Walter, 3,696,063.
Muller, Richard; Frey, Hans; and Dathe, Christian, to Institut für Silikon- und Fluorkarbon-Chemie. Process for the alkylation, alkenylation or arylation of heavy-metal salts by means of organotriptych-siloxazolidines. 3,641,082, 2-8-72, Cl. 260-431.
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Muller, Richard A.: *See—*
Alvarez, Luis W.; Derenzo, Stephen E.; Muller, Richard A.; Smits, Robert G.; and Zaklad, Haim, 3,659,105.
Muller, Rienk J., to Munsingwear, Inc. Knitting machine. 3,662,571, 5-16-72, Cl. 66-7,000.
Muller, Roman, to Gebrüder Buhler AG. Grain cleaning machine. 3,675,697, 7-11-72, Cl. 146-253,000.
Muller, Rudolf: *See—*
Simm, Walter; and Muller, Rudolf, 3,673,598.
Uerlichs, Johannes; and Muller, Rudolf, 3,695,286.
Muller, Rudolf; Schinke, Heinz Joachim; and Raible, Hermann, to Math. Bauerle GmbH. Sheet feeding mechanism for a small duplicating machine. 3,649,003, 3-14-72, Cl. 271-36.
Muller, Rudolf. Electrophotographic copying machine. 3,687,544, 8-29-72, Cl. 355-57,000.
Muller, Rudolf, to Agfa-Gevaert Aktiengesellschaft. Rotary planographic printing press. 3,698,312, 10-17-72, Cl. 101-142,000.
Muller, Theo; and Feller, Otto, to Goetzwerke Friedrich Goetze A.G. Cantilevered machine part. 3,663,116, 5-16-72, Cl. 408-143,000.
Muller, Thomas C.; Nelson, Lawrence B.; and Bluestein, Bernard R., to Witco Chemical Corporation. Production of long chain amines by reacting monoethanolamine, monoisopropanolamine and/or ethylenediamine with long chain straight chain secondary chlorides. 3,657,347, 4-18-72, Cl. 260-583.
Muller, Thomas E.: *See—*
Mitchell, Reid L.; Muller, Thomas E.; Stevens, Hugh D.; and Tabke, Robert S., 3,670,069.
Muller, Unna Wolfgang: *See—*
Bohm, Heinz-Dieter; Muller, Unna Wolfgang; and Hobert, Herbert, 3,706,365.
Muller, Walter: *See—*
Schmidt, Alfred; Weinrotter, Ferdinand; and Muller, Walter, 3,652,209.
Schrade, Jean; Severus, Harald; and Muller, Walter, 3,660,207.
Muller, Walter, to Transformatoren Union Aktiengesellschaft. Choke. 3,691,492, 9-12-72, Cl. 336-60,000.
Muller, Willy: *See—*
Muller, Willy; Wurm, Bruno; and Haag, Hermann, 3,673,332.
Muller, Willy; and Robra, Helmut, to Schloemann Aktiengesellschaft. Ring-forging press. 3,670,557, 6-20-72, Cl. 72-421,000.
Muller, Willy; Wurm, Bruno; and Haag, Hermann, to Muller, Willy. Telephone answering devices. 3,673,332, 6-27-72, Cl. 179-6,00e.
Muller, Willy, to Schloemann Aktiengesellschaft. Means for forging large shell rings E. G. for boiler shells. 3,695,079, 10-3-72, Cl. 72-208,000.
Muller, Wolf F., to United States Catheter & Instrument Corporation. Extensible catheter. 3,631,848, 1-4-72, Cl. 128-2,05.
Muller, Yorck: *See—*
Kannamuller, Gerhard; Kosziech, Karl-Heinz; Goller, Werner; Kugler, Walter; and Muller, Yorck, 3,637,322.
Muller-Bardorff, Wolfgang: *See—*
von König, Anita; Moll, Franz; Muller-Bardorff, Wolfgang; and Saleck, Wilhelm, 3,640,719.
Muller-Berner, Alfred Hermann, to Daimler-Benz Aktiengesellschaft. Drive unit with slip indicator for motor vehicles. 3,680,370, 8-1-72, Cl. 73-118,000.
Muller-Berner, Alfred Hermann, to Daimler-Benz Aktiengesellschaft. Installation for controlling a combustion engine. 3,682,152, 8-8-72, Cl. 123-140,0mc.
Muller-Calgan, Helmut: *See—*
Jonas, Rochus; and Muller-Calgan, Helmut, 3,681,393.
Muller-Lindemann, Dieter: *See—*
Arens, Egidius; Muller-Lindemann, Dieter; and Triebold, Karl-Friedrich, 3,705,334.
Muller-Welt, Hans, to Amtliche Forschungs- und Materialprüfungsanstalt für das Bauwesen, Otto-Graf-Institut an der Universität Stuttgart. Method and apparatus for working soil samples. 3,643,512, 2-22-72, Cl. 73-432.
Muller-Westerhoff, Ulrich: *See—*
Hafner, Klaus; and Muller-Westerhoff, Ulrich, 3,658,793.
Mullersman, Ferdinand H.; and Rockey, Robert E., to General Electric Company. Polarity-mated rechargeable battery and charging unit. 3,665,285, 5-23-72, Cl. 320-2.
Mullery, Alvin P.; and Zurcher, Frank W., Jr., to International Business Machines Corporation. Program scheduler for processing systems. 3,648,253, 3-7-72, Cl. 340-172.5.
Mullet, Sidney George: *See—*
Wyatt, James Andrew Stewart; Chapman, Clifford Victor Gascoyne; Solt, George Stefan; and Mullet, Sidney George, 3,679,059.
Mulligan, William: *See—*
Jennings, Francis W.; Mulligan, William; Urquart, George M.; McIntyre, William I.; and Jarrett, William F. H., 3,657,415.
Mulligan, William L., to Parks-Cramer Company. Remote crane motor control with variable direction and speed of movement. 3,675,097, 7-4-72, Cl. 318-17,000.
Mulligan, William R. Magnetic sex-denoting ornament which attracts or repels respective similar ornaments denoting unlike or like sex. 3,670,525, 6-20-72, Cl. 63-23,000.
Mullin, Francis Joseph; and Ramsey, Raymond Bolton, to Bell Telephone Laboratories, Incorporated. Serving area connector. 3,660,613, 5-2-72, Cl. 179-98.
Mullin, William F., to Mallory, P. R., & Co., Inc. Multiple-condition automotive alarm system. 3,641,488, 2-8-72, Cl. 340-52.
Mullins, Albert A., to Schlumberger Technology Corporation. Drillable slip. 3,687,196, 8-29-72, Cl. 166-217,000.
Mullins, Barry W.: *See—*
Gove, Donald C.; Mullins, Barry W.; and Rousseau, Edmund G., 3,660,838.
Mullins, Darrell Dexter: *See—*
D'Amico, John Joseph; and Mullins, Darrell Dexter, 3,642,804.
Mullins, Darrell Dexter, to Monsanto Company. Piperazine methyl 1,3 diaryl guanidines. 3,646,029, 2-29-72, Cl. 260-268.
Mullins, Donald L., to Sanderson Films, Inc. Loose leaf ring binder. 3,638,967, 2-1-72, Cl. 281-33.
Mullins, John W. Line clamping self-tapping service valve. 3,661,169, 5-9-72, Cl. 137-318.
Mulph, Robert John: *See—*
Dipietro, Joseph; Todd, John Heaton; and Mulph, Robert John, 3,650,820.
Mulread, Richard C.; and Pinsley, Edward A., to United Aircraft Corporation. Stray radiation suppression device. 3,699,471, 10-17-72, Cl. 331-94,500.
Multi-Amp Corporation: *See—*
Ettelman, David J., 3,643,157.
Multi-Elmac Company: *See—*
Barlow, Edson L., Jr., 3,646,560.
Multi-Line Pen Company Incorporated: *See—*
Rogers, Murray K., 3,631,599.
Rogers, Murray K., 3,688,409.
Multi-Minerals Limited: *See—*
Cochran, Linden Wayne, 3,645,676.
Cochran, Linden Wayne, 3,645,682.
Multi-Photo Camera Corporation: *See—*
Stelck, Lionel L., 3,650,186.
Multicraft, Incorporated: *See—*
Ramey, David S., 3,672,926.
Multiculp Automation Company: *See—*
Ehe, Albert L., 3,700,530.
Multifastener Company: *See—*
Keough, William R., 3,645,802.
Keough, William R., 3,650,853.
Multifastener Corporation: *See—*
Steward, John H., 3,648,747.
Multra-Guard, Inc.: *See—*
Dan, Carlo; and Pinkham, James F., 3,678,509.
Dan, Carlo, 3,707,708.
Mulvaney, Charles S. Process and apparatus for mining by retreat reaming. 3,642,325, 2-15-72, Cl. 299-18.
Mulvaney, James M.: *See—*
Villers, Philippe; Allen, Martin A.; and Mulvaney, James M., 3,660,157.
Mulvey Dennis M.: *See—*
Weinstock, Leonard M.; Tull, Roger J.; and Mulvey Dennis M., 3,657,237.
Mulvey, Gerard Edmund. Air handling ceiling channel structure. 3,636,340, 1-18-72, Cl. 240-9.
Mulvey, Thomas: *See—*
Bassett, Richard; and Mulvey, Thomas, 3,659,097.
Bassett, Richard; and Mulvey, Thomas, 3,707,628.
Mulwhiteson Development Company: *See—*
White, Fred K., 3,631,727.

Mumford, George V. Child resistant closure. 3,692,199, 9-19-72, Cl. 215-9.000.

Mumford, Robin B.: *See—*
Weedon, Gene C.; and Mumford, Robin B., 3,635,911.
Weedon, Gene C.; Lofquist, Robert A.; and Mumford, Robin B., 3,642,714.

Mumma, Harold J.; and Parry, Curtis L., to FMC Corporation. Rotary inking device for fruit marking machines. 3,633,506, 1-11-72, Cl. 101-336.

Munach, Arnold S., to United States of America, Navy. Velocity discriminating time mechanical ordnance fuze. 3,677,186, 7-18-72, Cl. 102-83.000.

Munakata, Hideaki; Watanabe, Kazuo; Osako, Akitada; and Urakabe, Rintaro, to Toyo Boseki Kabushiki Kaisha (Toyo Shinning Co., Ltd.). Process for preparing N,N-bis-cyanoethylated derivatives of aliphatic primary amine branched at the α -position. 3,660,460, 5-2-72, Cl. 260-464.

Munakata, Katsura. Method for synthesizing fish-killing substances and fish killers. 3,704,247, 11-28-72, Cl. 260-340.500.

Munakata, Tomohiko: *See—*
Nakanishi, Michio; Munakata, Tomohiko; and Setoguchi, Shin-ro, 3,706,764.

Munawwar, Sheikh Mohammad, to Compac Corporation. Flame retardant fire barrier composition and laminant. 3,694,305, 9-26-72, Cl. 161-205.000.

Munby, Harry, to Lucas, Joseph, (Industries) Limited. Igniter arrangement for a gas turbine engine. 3,690,096, 9-12-72, Cl. 60-38.82p.

Munch, Gerhard; and Jager, Albert, to Messer Griesheim GmbH. Apparatus for flame scarfing the surfaces of crude blocks, billets, ingots and similar workpieces. 3,695,600, 10-3-72, Cl. 266-23.00h.

Munch, Hans Joachim, to Buss A.G. Process and device for the purification of a mixture of organic substances of high molecular weight. 3,697,387, 10-10-72, Cl. 203-72.000.

Munch, Josef, to Bock, Otto, Orthopadische Industrie KG., Firma. Mattress for invalids. 3,639,927, 2-8-72, Cl. 5-91.

Munch, Otto R.: *See—*
Laakaniemi, Richard N.; Munch, Otto R.; and Sorenson, Paul H., 3,654,944.

Munch, Otto R., to Johnson Service Company. Supply connection means for bleed type sensing apparatus. 3,699,991, 10-24-72, Cl. 137-82.000.

Munch, Peter: *See—*
Kandler, Joachim; Dany, Franz-Josef; Komorniczky, Klaus; and Munch, Peter, 3,705,865.

Munch, Wilhelm. Rail-fastening devices. 3,690,551, 9-12-72, Cl. 238-349.000.

Munchbach, Curt, to Ungerer, Trma. Sheet and strip flattening machine. 3,704,615, 12-5-72, Cl. 72-165.000.

Munchel, Eugene A.; and Thornton, Henry M., to Ashcombe Products Company. Cleaning attachment for elevated spray device. 3,679,319, 7-25-72, Cl. 401-138.000.

Muncie Parts Mfg. Co., Inc.: *See—*
Snyder, David M., 3,682,197.

Mund, Heinrich: *See—*
Greten, Berndt; and Mund, Heinrich, 3,645,457.

Mund, Konrad; and Schulte, Rolf-Winfried. Method of producing a tungsten carbide containing electrode for fuel elements. 3,684,579, 8-15-72, Cl. 136-120.0fc.

Munday, Theodore F.: *See—*
Radimer, Kenneth J.; and Munday, Theodore F., 3,701,825.

Munden, Curtis D.: *See—*
Sawyer, Elbert M.; Brown, Joseph M.; Munden, Curtis D.; and Giles, Kenneth E., 3,702,429.

Munden, Jeffery Edward: *See—*
Richards, Merlyn; and Munden, Jeffery Edward, 3,632,477.

Munder, Johannes: *See—*
Moraw, Roland; Munder, Johannes; and Lohaus, Gerhard, 3,632,344.

Scheler, Siegfried; and Munder, Johannes, 3,676,132.

Munder, Joseph Anthony: *See—*
Ramm, Joseph Louis; Ferraro, Joseph Peter; and Munder, Joseph Anthony, 3,633,943.

Mundil, Rudolf: *See—*
Fries, Ludwig; Mundil, Rudolf; and Wiechers, Herbert, 3,655,709.

Munding, German; and Zeh, Willi, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung. Construction of a chamber for cooling hot gases. 3,667,241, 6-6-72, Cl. 62-5.

Mundinger, William D.; and Marsh, Ronald W., to Pullman Incorporated. Pneumatic discharge arrangement for hoppers. 3,675,975, 7-11-72, Cl. 302-52.000.

Mundkur, Balaji, to University of Connecticut. Scanning apparatus for biological microdensitometry. 3,671,754, 6-20-72, Cl. 250-236.000.

Mundlos, Eberhard: *See—*
Herz, Luis; Mohr, Reinhard; Mundlos, Eberhard; Mundlos, Eberhard; and Ostermeier, Johann, 3,681,347.

Lohe, Konrad; Mohr, Reinhard; Mundlos, Eberhard; and Freb, Hermann, 3,679,358.

Mundt, James E.; and Powell, Milan, to Weatherhead Company, The. Valve stem. 3,669,407, 6-13-72, Cl. 251-334.000.

Mundt, James E., to Weatherhead Company, The. Hose coupling. 3,698,745, 10-17-72, Cl. 285-256.000.

Mundt, Trexie I., 1/2 to O'Dell, Sterling L. Protective garment. 3,693,189, 9-26-72, Cl. 2-47.000.

Mundus, Friedhelm: *See—*
Schwarzkopf, August; and Mundus, Friedhelm, 3,631,771.

Mundus, Friedhelm, to Windmoller & Holscher. Bag-making machines for making plastics side-fold bags with carrier handles. 3,640,187, 2-8-72, Cl. 93-8.

Mundus, Friedhelm, to Windmoller & Holscher. Intermittent feeding apparatus for a web of paper or plastics material. 3,650,449, 3-21-72, Cl. 226-142.

Mundy, Arthur; and Sievers, David L., to General Tire & Rubber Company, The. Heavy-duty resilient elastomeric bushing. 3,666,335, 5-30-72, Cl. 308-238.000.

Mundy, Frank Percival, to Pict Limited. Vegetable processing apparatus. 3,703,917, 11-28-72, Cl. 83-2.000.

Mundy, Joseph L.: *See—*
Joynson, Reuben E.; and Mundy, Joseph L., 3,699,544.

Mundy, Joseph L., to General Electric Company. High density four-transistor MOS content addressed memory. 3,701,980, 10-31-72, Cl. 340-173.0am.

Mundy, Joseph L., to General Electric Company. Content addressed memory cell with selective bit writing. 3,705,390, 12-5-72, Cl. 340-173.0am.

Mundy, William L.: *See—*
Portnoy, Allen J.; and Mundy, William L., 3,681,159.

Munekata, Keniti: *See—*
Kurimoto, Mikishi; Ochiai, Yoshiki; Munekata, Keniti; and Nomura, Kenji, 3,691,655.

Munekata, Takashi; and Uchida, Eizaburo, to Kureha Kagaku Kogyo Kabushiki Kaisha. Chloro-nitro substituted phenyl esters of aliphatic acids. 3,669,998, 6-13-72, Cl. 260-410.5.

Munger, Donald W.; and Weighart, Frederick G., to Automation Industries, Inc. Ultrasonic inspection apparatus. 3,688,562, 9-5-72, Cl. 73-67.700.

Munguet, Oscar Ferrer. Fluid pressure regulating device. 3,664,366, 5-23-72, Cl. 137-209.

Muniz, Eloy Fernando. Washboard. 3,664,160, 5-23-72, Cl. 68-224.000.

Munk, Edmund: *See—*
Haas, Herbert G.; Munk, Edmund; Fink, Alfred; and Klink, Erich, 3,663,137.

Haas, Herbert G.; Munk, Edmund; and Fink, Alfred, 3,665,065.

Munk, Edmund; Haas, Herbert; and Weinberg, Gerd, to Furnier- und Sperrholzwerk, J. F. Werz, Jr., K.G. Apparatus for filling molds. 3,697,208, 10-10-72, Cl. 425-147.000.

Munk, Edmund E., to Furnier- und Sperrholzwerk J. P. Werz, Jr., K.G. Mold for producing molded elements with parts of different thicknesses from fibrous mixtures. 3,632,276, 1-4-72, Cl. 425-415.

Munk, Friedrich; and Korfer, Gunter, to Junkerther Maschinenbau Gesellschaft mit beschränkter Haftung. Furnace installation particularly for melting gray iron in foundries. 3,702,184, 11-7-72, Cl. 266-13.000.

Munkstrand, Nils Eric, to Aktiebolaget Nohab. Device for limiting the movements of the wicket gates in a water turbine. 3,639,072, 2-1-72, Cl. 415-9.

Munn, Alfred J.: *See—*
Fleming, William T.; and Munn, Alfred J., 3,656,665.

Munn, Alfred John: *See—*
De Rouville, Matthew; Munn, Alfred John; and Hansen, Arne H., 3,638,733.

Munn, David E.; and Maddestra, Robert, to Damon Corporation. Instructional electric motor. 3,678,310, 7-18-72, Cl. 310-40.0mm.

Munn, Gerald J.: *See—*
Anderson, Leroy E.; and Munn, Gerald J., 3,636,903.

Munn, Gerhard: *See—*
Harbrecht, Karl; and Munn, Gerhard, 3,668,969.

Munn, Robert J., to Motorola, Inc. Television frequency stabilizing system. 3,641,435, 2-8-72, Cl. 325-63.

Munnich, Hermann; and Markert, Franz, to SKF Kugellagerfabriken G.m.b.H. Mounting of roller bearings. 3,695,391, 10-3-72, Cl. 184-1.00e.

Munnich, Robert F.: *See—*
Robinson, John L.; and Munnich, Robert F., 3,706,929.

Munoz, Enrique, to Entreprises Devars Naudo & Cie. Dismantling key-bolt for a propping-up and supporting framework. 3,632,075, 1-4-72, Cl. 248-354.

Munro, Alan C.: *See—*
Basham, Edgar W.; Knapman, John E.; Pollard, Gordon D.; Anthony, John B.; and Munro, Alan C., 3,642,289.

Munro, Bradley L.: *See—*
Haskell, Donald M.; and Munro, Bradley L., 3,676,516.

Munro, John Galvin: *See—*
Kunkel Roland Keith; and Munro, John Galvin, 3,684,648.

Munro, Robert Gordon; and Hale, Rodney Barker, to Goulder, J., & Sons Limited. Method and apparatus for measuring profile and lead errors in gear teeth. 3,631,603, 1-4-72, Cl. 33-179.5.

Munro, William H. Hydroprocessing of hydrocarbons. 3,694,344, 9-26-72, Cl. 208-108.000.

Munroe, Miles R.: *See—*
Snaper, Alvin A.; Gregory, George D.; and Munroe, Miles R., 3,675,220.

Munschauer, Frederick E., Jr.; and Trautman, George H., Jr., to Niagara Machine & Tool Works. Shifttable press brake die. 3,675,463, 7-11-72, Cl. 72-448.000.

Munschy, Andre V.: *See—*
Horonick, Andrew; and Munschy, Andre V., 3,678,151.

Munse, Robert A., to Microdot, Inc. Fastener applying tool. 3,702,494, 11-14-72, Cl. 29-225.000.

Munselle, Edward A. Method and apparatus for forming carbon dioxide snow. 3,677,020, 7-18-72, Cl. 62-10.000.

Munsingwear, Inc.: *See—*
Hopper, Lois H., 3,704,713.

Muller, Rienk J., 3,662,571.

Munson, Arden L.: *See—*
Gould, Richard E.; Munson, Arden L.; and Wylder, Walter A., 3,634,801.

Munson, Carl Marshall: *See—*
Livingston, William L.; and Munson, Carl Marshall, 3,702,158.

Munson, Chester R. Beam lifting apparatus. 3,647,254, 3-7-72, Cl. 294-78.

Munson, Donald J., to North Central Manufacturing Corporation. Foldable ironing board. 3,640,230, 2-8-72, Cl. 108-63.

Munson, George E., Jr.: *See—*
Dunne, Maurice J.; and Munson, George E., Jr., 3,654,613.

Munson, Robert D., to Emerson Electric Co. Auxiliary lighting system for use particularly with high pressure metal vapor lamps. 3,659,146, 4-25-72, Cl. 315-92.000.

Munson, Robert D., to Emerson Electric Co. Control circuit for mercury arc lamps. 3,700,962, 10-24-72, Cl. 315-241.000.

Munson, Robert V.: *See—*
Thayer, Patrick T.; and Munson, Robert V., 3,653,049.

Munson, Robert V.; and Thayer, Patrick T., to Thayer Corporation. Vehicle tire pressure warning system. 3,654,601, 4-4-72, Cl. 340-58.

Munson, Robert V.; and Bensmiller, Richard E., to Thayer Corporation. Method and apparatus for measuring physical phenomena. 3,657,926, 4-25-72, Cl. 73-404.

Munson, Whitney K.: *See—*
Munson, Whitney K.; and Ricci, John N. (said Ricci assor. to said), 3,672,635.

Munson, Whitney K.; and Ricci, John N., said Ricci assor. to said Munson, Whitney K. Staple remover housing means. 3,672,635, 6-27-72, Cl. 254-28.

Munson, William A., to Westinghouse Electric Corporation. Protective system for basic oxygen furnace lance. 3,647,198, 3-7-72, Cl. 266-34.

Munson, William A., to Westinghouse Electric Corporation. Blast furnace control based on measurement of pressures at spaced points along the height of the furnace. 3,690,632, 9-12-72, Cl. 266-30.000.

Munson, William O.: *See—*
Colgate, Stirling A.; Kempton, Marvin L.; Hanson, Merle E.; Munson, William O.; and Nicholson, Dallas E., 3,696,750.

Munster, Ernst: *See—*
Bauerle, Oskar; Kubel, Wilfried; Munster, Ernst; Schweikert, Karl; and Strobl, Georg, 3,705,997.

Munster, Franz: *See—*
Rheude, Franz Gustav; Munster, Franz; and Brehmer, Harald, 3,687,714.

Munters, Carl, & Co.: *See—*
Munters, Carl George, 3,682,747.

Munters, Carl George: *See—*
Glav, Ola, 3,683,591.

Munters, Carl George, to Munters, Carl, & Co. Apparatus for forming an impregnated paper web with corrugations or pleats. 3,682,747, 8-8-72, Cl. 156-459.000.

Munting, Johannes Pieter, to Akzona Incorporated. Manufacture of unique polyethylene terephthalate fiber. 3,650,879, 3-21-72, Cl. 161-89.

Muntz, Frank F. Shaver with improved hair setup. 3,673,684, 7-4-72, Cl. 30-34.200.

Muny, Richard P.; and Wilson, David W., to Avery Products Corporation. Curable pressure sensitive adhesive containing a polyepoxide, a carboxylated diene polymer and an acrylic ester tackifier. 3,639,500, 2-1-72, Cl. 260-837.

Munz, Ferdinand; Hack, Helmuth; and Eue, Ludwig, to Farbenfabriken Bayer Aktiengesellschaft. Cycloaliphatic imidazolidine-2-one-1-carboxylic acid amides. 3,686,204, 8-22-72, Cl. 260-309.700.

Munzing, Robert, to Mas, Ernst. Current collector for vehicles of electric toy and model railroad installations. 3,670,115, 6-13-72, Cl. 191-45.00r.

Munzinger, Friedrich. Rotary piston engine. 3,685,928, 8-22-72, Cl. 418-18.000.

Muoio, Erland L., to Johnson, S. C., & Son, Inc. Process for cleaning hard surfaces. 3,681,141, 8-1-72, Cl. 134-41.000.

Muotka, Ragnar Ludvig: *See—*
Henriksson, Sune Torsten; Muotka, Ragnar Ludvig; and Landeborg, Lars E., 3,649,214.

Henriksson, Sune Torsten; and Muotka, Ragnar Ludvig, 3,692,364.

Landeborg, Lars Erik; Henriksson, Sune Torsten; and Muotka, Ragnar Ludvig, 3,653,469.

Murahashi, Seishin, to Core Memories, Inc. Magnetic core signal discrimination method. 3,646,531, 2-29-72, Cl. 340-174.

Murai, Bunjiro: *See—*
Kabuki, Kimiaki; and Murai, Bunjiro, 3,647,727.

Murai, Kosuke: *See—*
Shindo, Hisao; Nagoya, Yoshishige; Takeuchi, Takashi; and Murai, Kosuke, 3,652,263.

Murai, Tosuke: *See—*
Toda, Kazuo; Murai, Tosuke; Miura, Chikatoshi; and Tanura, Yuichi, 3,694,196.

Murai, Tsuyoshi; and Toi, Tatsuo, to Kokusai Denki Kabushiki Kaisha. Vapor growth device. 3,696,779, 10-10-72, Cl. 118-48.000.

Murakami, Akira, to Mitsubishi Jukogyo Kabushiki Kaisha. Head-stock balancing construction for machine tools. 3,684,395, 8-15-72, Cl. 408-235.

Murakami, Hideaki: *See—*
Yamashita, Toshio; Ohtani, Tadao; Yoshida, Manabu; Kitamura, Saburo; and Murakami, Hideaki, 3,636,492.

Murakami, Hisamichi: *See—*
Asahi, Matahiko; Murakami, Hisamichi; Hasegawa, Yukio; Matsui, Hideo; and Takayanagi, Eifu, 3,679,348.

Murakami, Hitoshi: *See—*
Tanabe, Takashi; Aoki, Hiroshi; Murakami, Hitoshi; and Matsu-moto, Fujio, 3,683,060.

Murakami, Junzo; Asakawa, Shigeo; and Takeuchi, Kenji, to Tokyo Shibaura Electric Co., Ltd. Decoding system. 3,665,460, 5-23-72, Cl. 340-347.0da.

Murakami, Kaichi: *See—*
Sato, Hosen; Natsumeda, Katsuyuki; and Murakami, Kaichi, 3,638,556.

Murakami, Keiichi: *See—*
Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; Ito, Humio; and Murakami, Keiichi, 3,660,551.

Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; Murakami, Keiichi; and Hirakawa, Michio, 3,687,890.

Murakami, Keisuke, to Sugihara, John Y. Automatic combination windshield wiper-washer. 3,656,042, 4-11-72, Cl. 318-444.

Murakami, Kunio: *See—*
Obuchi, Satoru; Fukuoka, Tokuji; Nagato, Saburo; Murakami, Kunio; Shigeta, Tamikazu; and Hayashi, Hiroyuki, 3,682,687.

Murakami, Masahiro: *See—*
Takagi, Kazumi; Matsuda, Teruo; and Murakami, Masahiro, 3,644,402.

Takagi, Kazumi; Murakami, Masahiro; and Iketani, Koichi, 3,666,816.

Murakami, Masakazu: *See—*
Minami, Muneyoshi; Taniguchi, Masaharu; Tsutsumi, Tadao; Murakami, Masakazu; and Yoshii, Toshiya, 3,673,145.

Murakami, Masuo; Kawashima, Yuji; Ito, Noriki; and Yano, Kunichihiro, to Yamanouchi Pharmaceutical Co., Ltd. 5-Cyclohexylamino-6-methyluracil. 3,651,063, 3-21-72, Cl. 260-256.4.

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Murakami, Takeru: *See—*
Doi, Kazuo; Murakami, Takeru; Kawamura, Hideo; Takaishi, Katsutoshi; and Nakano, Yoshinobu, 3,651,173.

Murakami, Torajiro: *See—*
Tadenuma, Hachiro; Murakami, Torajiro; and Mitsushima, Hirotosugu, 3,655,771.

Murakami, Toshikazu: *See—*
Masuda, Yoshio; and Murakami, Toshikazu, 3,672,079.

Murakami, Tsukasa: *See—*

- Inaba, Kohsaku; Yoshida, Seisaku; Matsuura, Shoji; and Murakami, Tsukasa, 3,679,005.
- Murakami, Yoshio: *See—*
Yasuda, Nobuaki; Ogawa, Takenobu; Murakami, Yoshio; Higashinakagawa, Iwao; Takeno, Syozo; and Tanaka, Norio, 3,699,619.
- Murakami, Yoshio; Higashinakagawa, Iwao; Yasuda, Nobuaki; and Sato, Motoharu, to Tokyo Shibaura Electric Co., Ltd. Flat type magnetic thin film memory. 3,653,007, 3-28-72, Cl. 340-174.
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Suzuki, Masaru; and Murakami, Yukinobu, 3,671,691.
- Murakhver, Vladimir Ilich: *See—*
Vagin, Alexei Alexeevich; Shalygin, Veniamin Nikolaevich; Shiborin, Viktor Ivanovich; Murakhver, Vladimir Ilich; and Sharov, Nikolai Grigorievich, 3,682,569.
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Shirai, Sio; Kunimune, Kouichi; and Muraki, Masaaki, 3,642,951.
- Muraki, Shuji, to Nippon Gakki Seizo Kabushiki Kaisha. Vibrator absorbing means for an electrical switch. 3,663,776, 5-16-72, Cl. 200-166,000.
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Shigematsu, Hiroji; Yamaguchi, Tomio; Fukue, Hisanobu; Ogawa, Hiroshi; Hashimoto, Takashi; Murakoshi, Kenichi; Suguri, Susumu; and Fujimura, Tsutomu, 3,699,436.
- Muralidhara, Ranya: *See—*
Pittet, Alan O.; Muralidhara, Ranya; and Theimer, Ernst T., 3,705,158.
- Pittet, Alan O.; and Muralidhara, Ranya, 3,705,121.
- Muramaisu, Hitoshi: *See—*
Oishi, Hiroshi; Aoki, Fumio; Kawano, Shigeru; Muramaisu, Hitoshi; and Sacki, Masahiro, 3,696,383.
- Muramatsu, Shigeo: *See—*
Yoshino, Masataka; Kamiya, Akimi; Ogawa, Nin; Oguri, Atsushi; and Muramatsu, Shigeo, 3,666,007.
- Muramoto, Hiroo: *See—*
Suzuki, Hisao; Musashi, Akira; Hiruta, Makoto; and Muramoto, Hiroo, 3,678,014.
- Muramoto, Noboru; Saiga, Johan; and Suzuki, Yoshitsugu, to Sumitomo Chemical Company Ltd. Stabilized saligenin cyclic phosphorus esters. 3,639,536, 2-1-72, Cl. 260-937.
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- Muraoka, Yasuhiko: *See—*
Umezawa, Hamao; Muraoka, Yasuhiko; and Nakayama, Yuya, 3,646,197.
- Muraro, Angelo; and Busi, Giovanni. Horizontal press for compacting scrap metal. 3,665,849, 5-30-72, Cl. 100-245,000.
- Muraschi, Thelma F.: *See—*
Tompkins, Victor N.; Miller, Kent D.; Muraschi, Thelma F.; and Fenton, John W., II, 3,658,986.
- Murase, Yoshihiko: *See—*
Matsuura, Hideo; Imagawa, Katsuhiko; and Murase, Yoshihiko, 3,669,214.
- Matsuura, Hideo; Kurokawa, Ikuji; and Murase, Yoshihiko, 3,691,892.
- Murase, Yoshihiko, to Nippon Gakki Seizo Kabushiki Kaisha. Thermoplastic laminated structure. 3,674,109, 7-4-72, Cl. 181-32,000.
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- Murashkina, Marfa Markovna: *See—*
Nesterovsky, Vsevolod Vladimirovich; Khmel'nitsky, Julius Lazarevich; Karzhev, Vladimir Ivanovich; Silchenko, Ekaterina Ivanovna; Goncharova, Nina Vasilievna; Svirina, Valentina Petrovna; Maikova, Margarita Viktorovna; and Murashkina, Marfa Markovna, 3,649,96.
- Murata, Eiji; and Ito, Kohoku, to Honeywell Inc. Diaphragm. 3,675,540, 7-11-72, Cl. 92-98,000.
- Murata Kaisha Kikai Kabushiki: *See—*
Matsui, Isamu; Nagasawa, Isao; Horiuchi, Tatsuo; Uchida, Hiroshi; and Uehara, Masao, 3,687,382.
- Murata, Keiji: *See—*
Nomura, Shigeo; and Murata, Keiji, 3,666,244.
- Torikata, Akio; Kayamori, Hisashi; Mase, Yasuo; Murata, Keiji; and Maekawa, Reizo, 3,649,458.
- Murata Kikai Kabushiki Kaisha: *See—*
Kawamura, Shuzo, 3,684,207.
- Murata, Kikuzo: *See—*
Shioyama, Osamu; Mine, Seizo; and Murata, Kikuzo, 3,699,228.
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Kimura, Morio; Watanabe, Tadashi; Murata, Koichiro; and Iwasawa, Naozumi, 3,634,351.
- Murata Machinery, Ltd.: *See—*
Nakahara, Teiji; and Yanobu, Hideo, 3,636,698.
- Sakai, Shoji, 3,704,810.
- Murata Manufacturing Co., Ltd.: *See—*
Fujishima, Satoru; and Honma, Hideo, 3,648,184.
- Toyoshima, Isao, 3,650,003.
- Murata, Moriyasu: *See—*
Maruta, Iwao; Arai, Haruhiko; and Murata, Moriyasu, 3,660,070.
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Hayamizu, Yoshisada; Mori, Toshiyuki; and Murata, Rikizo, 3,637,282.
- Murata, Takao: *See—*
Tohma, Wataru; Murata, Takao; Nakamura, Nobutaka; and Kudo, Atsushi, 3,696,622.
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- Murata, Yoshiro: *See—*
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Kuruma, Hiroshi; and Murata, Yoshiro, 3,666,840.
- Kaminaka, Hiroshi; Kotera, Norio; Kanda, Tatsuo; Kuruma, Hiroshi; Yanagihara, Hideki; and Murata, Yoshiro, 3,691,278.
- Muratani, Masao: *See—*
Endo, Kumaji; Ebisawa, Fumio; and Muratani, Masao, 3,643,850.
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Yamané, Mikiya; Saito, Akira; Matsumoto, Katsuyoshi; Kawasumi, Kenichi; Murayama, Kazuo; and Sugiyama, Hiroshi, 3,642,340.
- Murayama, Keisuke: *See—*
Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; Watanabe, Ichiro; Murayama, Keisuke; and Morimura, Syoji, 3,684,765.
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Matsuda, Shozo; Tanaka, Tadashi; Murayama, Kouzou; Yamamoto, Kunimitsu; Oka, Joji; Takahashi, Ryoji; and Koyama, Megumi, 3,663,383.
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- Murcya, Noriyuki: *See—*
Kitajima, Masao; Yamaguchi, Tsutomu; Kondo, Asaji; and Murcya, Noriyuki, 3,691,090.
- Murday, David A., to Rohr Corporation. Thrust controlling apparatus. 3,647,141, 3-7-72, Cl. 239-265,29.
- Murden, Peter: *See—*
Ingham, William Ellis; Symons, Michael; and Murden, Peter, 3,643,215.
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- Murdoch Machine & Eng. Co.: *See—*
Young, John, III, 3,685,969.
- Murdoch, Vellie L.: *See—*
Buntin, Robert R.; Harding, John W.; Keller, James P.; and Murdoch, Vellie L., 3,684,415.
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- Muren, Albert P., Jr.: *See—*
Vancamp, Raymond M.; Minor, Paul S.; and Muren, Albert P., Jr., 3,679,373.
- Murenbeeld, Karel. Device for automatically regulating the thread consumption of warped knitting machines. 3,668,904, 6-13-72, Cl. 66-86,000.
- Muresan, Gheorghe: *See—*
Szumilas, Wladislaw; Adam, Macedon Emil; Lata, Ilie; and Muresan, Gheorghe, 3,685,793.
- Murex Welding Processes Limited: *See—*
Blake, Paul Desmond; Johnston, Roy Douglas; Phelps, Brian; Chapman, Edwin Albert; and Bartlett, Ronald Leonard, 3,702,390.
- Murfitt, Donald; and Peeso, James Bruce, Jr., to American Cyanamid Company. Fabrication of plastic spinnerettes by means of stacked mandrels. 3,687,413, 8-29-72, Cl. 249-160,000.
- Murfree, James A., Jr.: *See—*
Duncan, William A.; and Murfree, James A., Jr., 3,665,708.
- Hubbuck, Theodore; Murfree, James A., Jr.; Duncan, William A.; Sandlin, Billy J.; and Nappier, Henry A., 3,664,969.
- Hubbuck, Theodore N.; Murfree, James A., Jr.; Duncan, William A.; Sandlin, Billy J.; and Nappier, Henry A., to United States of America, Army. Gas generator with liquid initiator. 3,667,219, 6-6-72, Cl. 60-39,460.
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McLean, Derek Colin, 3,661,757.
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Lewis, George E.; and Murman, Fernando, 3,674,123.
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- Muro, Koji: *See—*
Shimauchi, Shiro; Yoshida, Saburo; and Muro, Koji, 3,669,611.
- Muro, Tomio: *See—*
Nakanishi, Michio; Yuki, Hiroshi; and Muro, Tomio, 3,663,533.
- Murofushi, Hisashi: *See—*
Yoshimura, Ipppei; Fukue, Norihiko; Sakamoto, Hiroshi; Murofushi, Hisashi; Hiyanaga, Takami; and Matsunaga, Takao, 3,679,707.
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Higashide, Eiji; Hasegawa, Toru; Ono, Hideo; Asai, Mitsuko; Muroi, Masayuki; and Kishi, Toyokazu, 3,691,280.
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Miyadera, Yasuo; Masuko, Tatuo; Muroi, Tadashi; Okada, Shinichi; and Noguchi, Hiroshi, 3,639,342.
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Abe, Jinnosuke; Watanabe, Tetsuo; Miyauchi, Kango; Yamaguchi, Tsutomu; Nito, Toshiharu; and Muroya, Noriyuki, 3,649,455.
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Gendler, Irvin F., 3,640,535.
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Minshull, John F.; and Murphy, Alan S., 3,681,762.
- Murphy, Alfred M.: *See*—
Stiffler, Torrence F., 3,692,678.
- Murphy, Arthur Douglas, to Simon-Carves Limited. Dust sealing mechanisms for hoppers or the like. 3,643,982, 2-22-72, Cl. 285-9.
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Glinski, Vincent J.; and Murphy, Bernard T., 3,653,988.
- Murphy, Bernard T., to Bell Telephone Laboratories, Incorporated. Method of fabricating semiconductor devices. 3,649,386, 3-14-72, Cl. 148-187.
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Muench, Nils L.; and Murphy, Charles B., 3,639,805.
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Mitchell, Reid L.; Murphy, Charles F.; and LaPolla, Edmund M., 3,652,316.
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Ahn, Yong Kee; Cupples, Barrett L.; and Murphy, Clarence R., 3,686,285.
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- Boyle, John P.; Murphy, Clarence R.; and Walsh, William L., 3,699,179.
- Cupples, Barrett L.; and Murphy, Clarence R., 3,640,852.
- Cupples, Barrett L.; Murphy, Clarence R.; and Walsh, William L., 3,686,076.
- Harper, Earl F.; Murphy, Clarence R.; and Walsh, William L., 3,644,554.
- Hay, Russell G.; Murphy, Clarence R.; and Walsh, William L., 3,683,037.
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Lagarde, Roe H.; and Murphy, Clarke, Jr., 3,653,098.
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Giddings, David George; and Murphy, David Duncan, 3,679,388.
- Murphy, David M. Grain stirring apparatus. 3,693,944, 9-26-72, Cl. 259-114.000.
- Murphy, Declan S.; and Charest, Rolland C. H., to Atara Corporation. Quick release mechanism for sewage lagoon aeration guns. 3,672,647, 6-27-72, Cl. 261-121.00r.
- Murphy, Donald P., to Hooker Chemical Corporation. Composition and process for stripping paint. 3,663,447, 5-16-72, Cl. 252-156.000.
- Murphy, Donald P., to Hooker Chemical Corporation. Alkaline stripping composition and process. 3,663,476, 5-16-72, Cl. 252-529.000.
- Murphy, Donald P., to Hooker Chemical Corporation. Composition and process for stripping paint. 3,671,465, 6-20-72, Cl. 252-548.000.
- Murphy, Donald P., to Hooker Chemical Corporation. Paint stripping composition and method. 3,681,250, 8-1-72, Cl. 252-158.000.
- Murphy, Edmund, to Cooling Developments Ltd. Air- or gas moving equipment for use with heat exchange- and/or gas-scrubbing apparatus. 3,667,864, 6-6-72, Cl. 417-53.000.
- Murphy, Edmund, to Cooling Developments Ltd. Cooling medium-moving devices for gas-liquid contacting apparatus. 3,669,421, 6-13-72, Cl. 261-25.
- Murphy, Edwin W.: *See*—
Mayo, Howard A., Jr.; and Murphy, Edwin W., 3,693,356.
- Murphy, Frank W.; and Murphy, Frank W., Jr. Vibration responsive switch. 3,641,290, 2-8-72, Cl. 200-61.45.
- Murphy, Frank W., Jr.: *See*—
Murphy, Frank W.; and Murphy, Frank W., Jr., 3,641,290.
- Murphy, Frank W., Jr.; Sparks, Buddy G.; Lawrence, Charles H.; and Rickard, Donald R., to Murphy, Frank W., Manufacturers, Inc. Instrument for indicating liquid levels. 3,688,577, 9-5-72, Cl. 73-299.000.
- Murphy, Frank W., Manufacturers, Inc.: *See*—
Murphy, Frank W., Jr.; Sparks, Buddy G.; Lawrence, Charles H.; and Rickard, Donald R., 3,688,577.
- Murphy, Frank W., Manufacturers, Inc.: *See*—
Lawrence, Charles R., 3,678,758.
- Murphy, G. W., Industries, Inc.: *See*—
Hollingshead, Frank A., 3,685,601.
- Jacyno, Anthony; and Boteffuhr, Harold R., 3,656,016.
- Jacyno, Anthony, 3,665,228.
- Jacyno, Anthony, 3,685,843.
- Jacyno, Anthony; and Holther, Grover P., 3,688,138.
- Jacyno, Anthony, 3,694,680.
- Jacyno, Anthony, 3,703,646.
- Justman, Dan B., 3,638,740.
- Schumacher, Percy W., Jr., 3,658,141.
- Murphy, G. W., Industries, Inc., mesne: *See*—
Nelson, Wayne F., 3,633,671.
- Murphy, George R.; Rehn, Glenn E.; and Plum, George L., to Mc Dowell-Wellman Engineering Company. Endless conveyor belt system and belt direction. 3,637,090, 1-25-72, Cl. 198-184.
- Murphy, Harold F. Stationery fastener assembly. 3,660,870, 5-9-72, Cl. 24-67.
- Murphy, James A.; and Brown, Stirling Robert, to International Paper Company, mesne. Adhesively laminated creped dinner napkin. 3,673,060, 6-27-72, Cl. 161-126.000.
- Murphy, James A., to International Paper Company. Laminated product bonded with colored adhesive. 3,684,641, 8-15-72, Cl. 161-129.000.
- Murphy, James A.; Lee, Charles A.; and Spravniks, Eduards, to International Paper Company. Web folding apparatus and method. 3,707,281, 12-26-72, Cl. 270-40.000.
- Murphy, James P., to Pitney-Bowes, Inc. Fluorescent lamp idling circuit. 3,679,932, 7-25-72, Cl. 315-106.000.
- Murphy, James R.: *See*—
Bryson, Millard C.; McKinney, Joel D.; and Murphy, James R., 3,706,654.
- Murphy, John Brian: *See*—
Donohue, Thomas W.; Murphy, John Brian; and Bissett, Thomas B., 3,688,296.
- Murphy, John C.; and Kues, Henry A., Jr., to United States of America, Navy, mesne. Naphthalene crystal growth in a gel. 3,657,372, 4-18-72, Cl. 260-674.
- Murphy, John D. Portable alarm device. 3,696,380, 10-3-72, Cl. 340-283.000.
- Murphy, John F., to Hess's of Allentown, Inc. Tape cassette display fixture. 3,644,010, 2-22-72, Cl. 312-135.
- Murphy, John M.: *See*—
Fogt, Thomas H.; Steiner, William R.; and Murphy, John M., 3,670,523.
- Murphy, John N.; and Bowser, Merle L., to United States of America, Interior. Primary and secondary shunt paths for dissipating an electrical charge. 3,638,035, 1-25-72, Cl. 307-141.
- Murphy, Joseph A., to Crucible Inc. Method for making steel. 3,645,718, 2-29-72, Cl. 75-60.
- Murphy, Joseph F.: *See*—
Grafton, Jim R.; Wilkins, Glenn E.; and Murphy, Joseph F., 3,646,928.
- Grafton, Jim R.; Wilkins, Glenn E.; and Murphy, Joseph F., 3,692,013.
- Murphy, Joseph P.: *See*—
Faith, Jack L.; Boysel, Lee L.; and Murphy, Joseph P., 3,702,945.
- Murphy, Kenneth Earl; Eubank William Marion; and Williams, Lamar, to Deere & Company. Crop deflector attachment for agricultural tractors. 3,667,776, 6-6-72, Cl. 280-150.00r.
- Murphy, Kevin E.: *See*—
Kippax, Donald L.; and Murphy, Kevin E., 3,679,766.
- Murphy, Kevin P.: *See*—
Barton, Oliver A.; and Murphy, Kevin P., 3,634,274.
- Barton, Oliver A.; and Murphy, Kevin P., 3,686,130.
- Barton, Oliver A.; and Murphy, Kevin P., 3,692,686.
- Barton, Oliver A.; and Murphy, Kevin P., 3,694,368.
- Orfeo, Sabatino R.; and Murphy, Kevin P., 3,640,869.
- Murphy, Kevin P.; and Orfeo, Sabatino Robert, to Allied Chemical Corporation. Novel fluorocarbon composition. 3,634,255, 1-11-72, Cl. 252-67.
- Murphy, Kevin P.; and Stahl, Richard F., to Allied Chemical Corporation. Process of refrigeration using mixture of SF_6 and CHCl_3 . 3,642,639, 2-15-72, Cl. 252-67.
- Murphy, Larry O.: *See*—
Lindsey, Joseph W.; and Murphy, Larry O., 3,664,337.
- Murphy, Lawrence J., to Colgate-Palmolive Company. Homogeneous water-based aerosol systems. 3,655,865, 4-11-72, Cl. 424-45.
- Murphy, Martin J. Metal wall and coping construction with bird guard. 3,634,984, 1-18-72, Cl. 52-101.
- Murphy, Milo E., to Murphy Mufflers. Muffler with resilient exterior. 3,688,869, 9-5-72, Cl. 181-40.000.
- Murphy Mufflers: *See*—
Murphy, Milo E., 3,688,869.
- Murphy, Patrick J.; and Thompson, Robert C., to Brunswick Corporation. Device for locating nails beneath the surface of a bowling lane. 3,662,258, 5-9-72, Cl. 324-41.
- Murphy, Peter C.: *See*—
Haarbye, Fredrik O.; and Murphy, Peter C., 3,674,446.
- Murphy, Peter C.; and Lawrence, J. Richard, to Mallory, P. R., & Co., Inc. Tungsten base welding rod, method for making same and novel applications of same. 3,669,656, 6-13-72, Cl. 75-176.000.
- Murphy, Preston V., to Thermo Electron Corporation. Method of making an electret. 3,702,493, 11-14-72, Cl. 29-592.000.
- Murphy, Robert H., to Wiremold Company, The. Variable buoyancy arrangement. 3,643,449, 2-22-72, Cl. 61-69.

- Murphy, Robert H., Jr.; and Goetz, William G. Yardage indicator for hand cart. 3,643,860, 2-22-72, Cl. 235-95.
- Murphy, Shields: *See*—
Siegfried, Edward C.; Harwell, Conner J.; and Murphy, Shields, 3,677,687.
- Murphy, Stephen D.: *See*—
Gubinsky, Louis; and Murphy, Stephen D., 3,665,696.
- Murphy, Thomas, to U.S. Philips Corporation. Photo-cathodes for electronic discharge tubes. 3,666,547, 5-30-72, Cl. 117-201.
- Murphy, Thomas V. Crane for extracting horizontally-aligned relatively-long tube bundles. 3,658,191, 4-25-72, Cl. 214-1.
- Murphy, Walter T., to Goodrich, B. F., Company, The. Vapor permeable polyurethane adhesive and finish layers in artificial leather. 3,663,351, 5-16-72, Cl. 161-159.000.
- Murphy, Walter T.; and Japs, Archie B., to Goodrich, B. F., Company, The. Microporous coatings for textile fabrics from cements of polyurethane in dimethylformamide adjusted to pH range 3 to 6. 3,701,681, 10-31-72, Cl. 117-161.0kp.
- Murphy, Willard; and Beam, Norman A., to McGraw-Edison Company. Travel iron with folding handle. 3,672,080, 6-27-72, Cl. 38-90.000.
- Murphy, Willard J. Multi-purpose boat fender. 3,693,573, 9-26-72, Cl. 114-219.000.
- Murphy, William M.; and Beauchemin, Norman J., to Lodding Engineering Corporation. Doctor cleaning methods and apparatus with scanning suction port. 3,687,730, 8-29-72, Cl. 134-21.000.
- Murphy, William S., Jr.; and Bialczak, Edward, to Addressograph-Multigraph Corporation. Two component diazo-type developing process. 3,661,590, 5-9-72, Cl. 96-49.
- Murr, William C., to Berkeley Bio-Engineering, Inc. Tonometer probe for digital read-out. 3,677,074, 7-18-72, Cl. 73-80.
- Murray, Brian L. Internal pads for rubber footwear. 3,693,270, 9-26-72, Cl. 36-58.500.
- Murray, Claire W.: *See*—
Wieschel, John E.; Zanzig, Jerald G.; Czarnecki, Robert M.; and Murray, Claire W., 3,682,336.
- Murray, Coyt E.; and Boyter, Walter C., to Impact Plastics, Inc. Balloon control ring. 3,646,746, 3-7-72, Cl. 57-108.
- Murray, Coyt E., to Impact Plastics Inc. Lug strap assembly and method of forming same. 3,646,973, 3-7-72, Cl. 139-153.
- Murray Curvex Printing Limited: *See*—
James, David Richard, 3,688,695.
- Murray, David B.: *See*—
Porter, John H.; and Murray, David B., 3,686,958.
- Murray, Donald R.; Van Soest, Cornelius J. M.; and Moulson, Donald C., to Heede International Ltd. Hoist for multi-storied buildings under construction. 3,690,412, 9-12-72, Cl. 187-2.000.
- Murray, Donald W.: *See*—
Gilani, Syed S. H.; Murray, Donald W.; and Salva, Juan M., 3,681,242.
- Murray, Dudley Charles, to Pains-Wessex Limited. Pyrotechnic devices. 3,654,867, 4-11-72, Cl. 102-37.4.
- Murray, Dudley Stuart. Apparatus for the production of tubing. 3,664,783, 5-23-72, Cl. 425-71.
- Murray, Edward J.; and Winstrom, Leon O., to Allied Chemical Corporation. Oxidation of cyclohexane. 3,671,588, 6-20-72, Cl. 260-586.00b.
- Murray, Edward J.; and Winstrom, Leon O., to Allied Chemical Corporation. Vapor phase conversion of cyclohexane carboxylic acid to cyclohexanone. 3,686,318, 8-22-72, Cl. 260-586.00r.
- Murray, Frederick R., to Rolls-Royce Limited. Drive means for the cooling fan of an internal combustion engine. 3,659,567, 5-2-72, Cl. 123-41.120.
- Murray, George L., Jr., to North American Rockwell Corporation. Electrostatic spinning head funnel. 3,670,486, 6-20-72, Cl. 57-58.890.
- Murray, Gregory J.; and Tarrant, Fred K., to Tarrant Manufacturing Company. Vacuum type debris collector with scraper blade. 3,675,266, 7-11-72, Cl. 15-340.000.
- Murray, Gregory J.; and Tarrant, Fred K., Jr., to Tarrant Manufacturing Company. Vacuum machine for street cleaning. 3,676,891, 7-18-72, Cl. 15-346.000.
- Murray, Hans E. H., to Aktiebolaget Svenska Kullagerfabriken. Method for manufacturing an axial bearing. 3,659,324, 5-2-72, Cl. 29-149.5.
- Murray, Henrik: *See*—
Sandstrom, Unto; Abramson, Nils; Sjolun, Ulf; Murray, Henrik; and Colding, Bertil, 3,662,279.
- Murray, Herbert C.: *See*—
Herr, Milton E.; Murray, Herbert C.; and Fonken, Gunther S., 3,649,453.
- Herr, Milton E.; Murray, Herbert C.; and Fonken, Gunther S., 3,706,801.
- Murray, James E.: *See*—
Foley, Richard G.; and Murray, James E., 3,671,827.
- Gallagher, William, Jr.; Kolb, Edwin R.; and Murray, James E., 3,651,723.
- Murray, James G.: *See*—
Eichenbaum, Raymond; and Murray, James G., 3,635,839.
- Murray, James H.: *See*—
Hipelius, John W.; and Murray, James H., 3,656,846.
- Murray, James J.; and Mueller, Jacob, to Sperry Rand Corporation. Plated wire manufacturing cell. 3,682,185, 8-8-72, Cl. 134-122.000.
- Murray, Jerome L. Boating accessory. 3,648,643, 3-14-72, Cl. 115-5.
- Murray, John F., Jr.: *See*—
Grassetti, Davide R.; and Murray, John F., Jr., 3,698,866.
- Murray, John J., to Allied Chemical Corporation. Polyfluoroalkoxyalkyl isocyanates. 3,657,306, 4-18-72, Cl. 260-453.
- Murray, Joseph John; and Pear, Charles B., Jr., to Potter Instrument Company, Inc. Long-wearing magnetic head. 3,665,436, 5-23-72, Cl. 340-174.10f.
- Murray, Kermon, to United States of America, Air Force. High strength fluorocarbon elastomer compositions. 3,654,216, 4-4-72, Cl. 260-41.
- Murray, Lawrence Aloysius, to RCA Corporation. Method of making complementary insulated gate field effect transistors. 3,700,507, 10-24-72, Cl. 148-187.000.
- Murray, Louis Daniel, Projection screens. 3,640,601, 2-8-72, Cl. 350-117.
- Murray Machinery, Inc.: *See*—
Lemke, Donald L.; and Ostrander, Ronald D., 3,675,866.
- Murray Manufacturing Corporation: *See*—
Kobryner, Herman H., 3,668,591.
- Murray, Margaret H.; and Brodhag, Earl E., to Time Incorporated. Satin white process and product. 3,660,131, 5-2-72, Cl. 106-306.
- Murray, Maxwell John: *See*—
Tauber, Elisha; and Murray, Maxwell John, 3,640,754.
- Murray, Michael Albert: *See*—
Rauch, Francis Clyde; Murray, Michael Albert; and O'Lenick, Richard Vincent, 3,644,142.
- Murray, Myles N., to Industrial Electronic Rubber Company. Method of making valve diaphragm. 3,680,187, 8-1-72, Cl. 29-156.70r.
- Murray, Norris N.: *See*—
Gaylord, John A.; and Murray, Norris N., 3,648,954.
- Murray, Raymond P. Voltage dependent phase switch. 3,656,007, 4-11-72, Cl. 307-262.
- Murray, Richard de Hart. Supporting garment. 3,683,909, 8-15-72, Cl. 128-159.000.
- Murray, Robert H., to Bethlehem Steel Corporation. Nodule collector. 3,697,134, 10-10-72, Cl. 299-8.000.
- Murray, Robert L.: *See*—
Guertin, Robert W.; and Murray, Robert L., 3,664,634.
- Murray, Robert Maclay, to AMP Domestic, Inc., mesne. Electrical connector. 3,701,966, 10-31-72, Cl. 339-95.00r.
- Murray, Robert T., to TRW Inc. Indicator light assembly. 3,699,328, 10-17-72, Cl. 240-52.100.
- Murray, Robert W. Tank filling nozzle with automatic shutoff. 3,651,837, 3-28-72, Cl. 141-128.
- Murray, Robert W.; and Story, Paul R., to Bell Telephone Laboratories, Incorporated. Antiozonant rubber compositions. 3,676,394, 7-11-72, Cl. 260-45.90r.
- Murray, Robert William; and Hoffman, Joseph Adrian, to American Cyanamid Company. Thiobis phenol-nickel (II) alkanolamine complexes and use in polymers. 3,636,023, 1-18-72, Cl. 260-439.
- Murray, Robert William; and Savides, Christos, to American Cyanamid Company. Ammonium poly phosphate-phosphonium bromide combinations as flame-retardants for propylene polymers. 3,649,591, 3-14-72, Cl. 269-41.
- Murray, Robert William; and Savides, Christos, to American Cyanamid Company. Tertiary phosphine oxide-ammonium polyphosphate combinations as flame-retardants for propylene polymers. 3,663,502, 5-16-72, Cl. 260-41.000.
- Murray, Robert William, to American Cyanamid Company. Combinations of phosphonium bromides and brominated aromatic compounds as flame-retardant compositions for olefin polymers. 3,699,077, 10-17-72, Cl. 260-45.90r.
- Murray, Robert William, to American Cyanamid Company. Flame-retarded polymer compositions. 3,700,626, 10-24-72, Cl. 260-45.80r.
- Murray, Roger W.: *See*—
Welty, Joseph M.; Shiota, Philip; and Murray, Roger W., 3,636,619.
- Murray, Ronald D.: *See*—
Hine, Wilbur H., Jr.; Murray, Ronald D.; and Lang, Richard E., 3,656,866.
- Murray, Ronald E.: *See*—
Hine, Wilbur H., Jr.; Murray, Ronald D.; and Lang, Richard E. (said Lang assor. to said), 3,656,866.
- Murray, Ross: *See*—
Peters, Jack; Williams, James E.; Murray, Ross; Stoliker, Lawrence F.; and Carlin, Patrick T., 3,658,337.
- Murray, Russell; and Gignoux, Dominique, to Columbia Research Corporation. Method for detecting pinhole defects in foil material. 3,700,909, 10-24-72, Cl. 250-219.00f.
- Murray, Srobert Malcolm Stuart: *See*—
Pitches, Brian Edward; and Murray, Srobert Malcolm Stuart, 3,665,760.
- Murray, William: *See*—

- Walker, Gordon Richard; and Murray, William, 3,658,092.
Murray, William Bruce. Corrosion inhibiting method. 3,669,615, 6-13-72, Cl. 21-2-7.
Murray, William Bruce; Kise, Mearl A.; and Kelly, Thomas Edward, to Virginia Chemicals Inc. Corrosion inhibiting compositions and method. 3,669,616, 6-13-72, Cl. 21-2-700.
Murray, William Bruce. Corrosion inhibitor composition containing zinc, sulfamate, and phosphate ions. 3,669,901, 6-13-72, Cl. 252-387,000.
Murray, William Kirby, to Tri-State Oil Tool Industries, Inc. Section milling tool. 3,684,009, 8-15-72, Cl. 166-55,800.
Murray, William, Sr.: *See—*
Cruickshank, David Graham; Epperson, James Philbert; Murray, William, Sr.; and Wydro, Richard Allen, Sr., 3,632,955.
Murray-Way Corporation: *See—*
Przygocki, Witold C., 3,665,650.
Murre, Robert W.: *See—*
Rempala, Chester S.; and Murre, Robert W., 3,649,119.
Murrell, Donald K.: *See—*
McIntosh, Harold A.; Dykzeul, Theodore J.; Slocum, Gordon K.; Rattan, William D.; and Murrell, Donald K., 3,662,949.
Murrell, Thomas A.: *See—*
Jachimek, Thomas P.; and Murrell, Thomas A., 3,701,970.
Murry, Edward J.; and Mitchell, Charles, to Gulton Industries, Inc. Sonically operated tool and sonic motor therefor. 3,681,627, 8-1-72, Cl. 310-8,700.
Murtha, Irene. Hair dyeing aid. 3,662,767, 5-16-72, Cl. 132-9.
Murthy, Nanjundiah N., to Pitney Bowes-Alpex, Inc. Data processing system employing particular bar code configuration. 3,700,858, 10-24-72, Cl. 235-61,11c.
Murthy, Yelahanka K. S.: *See—*
Thiemann, Josef; Murthy, Yelahanka K. S.; and Coronelli, Carolina, 3,676,490.
Murtin, Fernand R. C.; and Storey, Owen, to Societe Industrielle Electronique et d'Informatique. Frequency-spectrum analyzer with FFT computer. 3,634,760, 1-11-72, Cl. 324-77.
Murtland, James B., Jr.: *See—*
Johnes, Alfred W.; Murtland, James B., Jr.; and Rockwell, Perry Marvin, 3,649,816.
Murtland, James B., Jr., to Allegheny Ludlum Industries, Inc. Rolling mill control system. 3,636,743, 1-25-72, Cl. 72-9.
Murumets, Kirill Vladimirovich: *See—*
Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itsikson, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanovich; and Berestovsky, Georgy Grigorievich, 3,705,793.
Muryoi, Takeshi, to Nippon Kogaku K.K. Stop device for a shiftable objective lens. 3,657,989, 4-25-72, Cl. 95-64.
Muryoi, Takeshi, to Nippon Kogaku K.K. Shiftable objective lens. 3,672,287, 6-27-72, Cl. 95-64,00r.
Musa, Fuad H., to Motorola, Inc. Stabilized complementary micro-power square wave oscillator. 3,676,801, 7-11-72, Cl. 331-116,00r.
Musa, Raiq S., to Westinghouse Electric Corporation. Disposer splash guard. 3,693,892, 9-26-72, Cl. 241-100,500.
Musashi, Akira: *See—*
Suzuki, Hisao; Musashi, Akira; Hiruta, Makoto; and Muramoto, Hiroo, 3,678,014.
Muscatell, Francis L.: *See—*
Tommaney, Joseph W.; and Muscatell, Francis L., 3,656,535.
Muscel, Cormel I.: *See—*
Mogos, Ion; Muscel, Cormel I.; and Dumitrescu, Nicolae, 3,648,694.
Musch, Gordon F.: *See—*
Duran, Raymond J.; and Musch, Gordon F., 3,672,139.
Muschaweck, Roman: *See—*
Geiger, Rolf; Konig, Wolfgang; Siedel, Watter; and Muschaweck, Roman, 3,689,482.
Muschell, James E. Removable pier construction. 3,686,876, 8-29-72, Cl. 61-48,000.
Muschong, Peter W., to Central Transformer, Inc. Bushing protective guard. 3,639,678, 2-1-72, Cl. 174-145.
Muschong, Peter W., to Central Moloney Inc. Transformer core and coil mounting frame. 3,662,308, 5-9-72, Cl. 336-210.
Musc, Everett W.: *See—*
Forman, Herbert W.; and Musc, Everett W., 3,654,434.
Muse, George B. Variable wall structure. 3,693,307, 9-26-72, Cl. 52-438,000.
Muse, George H.; and Keane, Peter J., to Erie Tool Works. Pipe cutter. 3,639,980, 2-8-72, Cl. 30-102.
Muse, Kenneth K. Taco shell jig. 3,705,042, 12-5-72, Cl. 99-426,000.
Muselik, Miloslav, to Adamovske Strojirny, narodni podnik. Clamping apparatus for offset cylinders. 3,685,445, 8-22-72, Cl. 101-415,100.
Musgen, Bruno: *See—*
Degenkolbe, Joachim; and Musgen, Bruno, 3,674,577.
Musgrave, Albert W., to Mobil Oil Corporation. Corrections for seismic data obtained from expanding-spread. 3,697,939, 10-10-72, Cl. 340-15,5td.
Musgrave, Daniel D. Ballistic cutting implement. 3,657,835, 4-25-72, Cl. 42-90,000.
Musgrave, Ray D., to Western Printing Machinery Co. Doctor blade oscillatable between plate cylinder and ink transfer roll. 3,678,849, 7-25-72, Cl. 101-157,000.
Mugrove, Bryan H. Automotive jack. 3,645,501, 2-29-72, Cl. 254-126.
Mugrove, John. Internal comb softening means for beehives. 3,683,432, 8-15-72, Cl. 6-2,000.
Mushrush, Wilson G.: *See—*
Riesbeck, Laverne J.; and Mushrush, Wilson G., 3,650,401.
Mushrush, Wilson G.; a/b/a Magic Flow: *See—*
Riesbeck, Laverne J.; and Mushrush, Wilson G., 3,650,401.
Music Service Company, Inc.: *See—*
Chilton, Homer S., 3,653,342.
Musiconics International, Inc.: *See—*
Mostyn, William T., Jr., 3,678,505.
Musikas, Claude: *See—*
Coupat, Bernard; and Musikas, Claude, 3,692,500.
Musiyachenko, Alexandr Stepanovich: *See—*
Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.
Muska, Allen V.: *See—*
Laird, William Burton; Williams, Roy L.; and Muska, Allen V., 3,671,022.
Musketa, Alfred, to Klockner-Humboldt-Deutz Aktiengesellschaft. Seal for reciprocating machine elements. 3,661,479, 5-9-72, Cl. 417-437.
Muskovac, Nicolas G., to Vectrol, Inc. Ramp generator and variable duty-cycle switching circuit. 3,660,686, 5-2-72, Cl. 307-252,00n.
Muskulus, Willi: *See—*
Kramer, Willi; and Muskulus, Willi, 3,687,303.
Muskulus, Willi. Apparatus for assembling coils onto stators of electric machines and the like. 3,691,606, 9-19-72, Cl. 29-205,00d.
Musliner, Walter J.: *See—*
Gates, John W.; and Musliner, Walter J., 3,658,835.
Musliner, Walter J., to Eastman Kodak Company. Process for forming dye images. 3,676,135, 7-11-72, Cl. 96-54,000.
Musschoot, Albert, to General Kinematics Corporation. Drive structure for use with vibratory devices. 3,677,395, 7-18-72, Cl. 198-220,0da.
Musschoot, Albert, to General Kinematics Corporation. Support structure for use with vibratory devices. 3,706,372, 12-19-72, Cl. 198-218,000.
Musschl, Clifford L., to SPECO, Inc. Fluid spray apparatus. 3,653,599, 4-4-72, Cl. 239-273.
Musselman, Frank L.: *See—*
Eichelberger, Charles D.; and Musselman, Frank L., 3,697,819.
Musser, Clair O. Percussion musical instrument and tone bar therefor. 3,633,453, 1-11-72, Cl. 84-403.
Musser, Frederick M.: *See—*
Shenfeld, Richard S.; Musser, Frederick M.; and Kothari, Girish U., 3,644,252.
Musser, Malcolm E. Unload, check, and bag apparatus for supermarkets. 3,678,660, 7-25-72, Cl. 53-255,000.
Musser, Malcolm E. Bag holder and opening apparatus. 3,679,096, 7-25-72, Cl. 221-56,000.
Mussgay, Manfred: *See—*
Bauer, Kurt; Wittmann, Gunther; and Mussgay, Manfred, 3,636,196.
Wittmann, Gunther; Bauer, Kurt; and Mussgay, Manfred, 3,632,741.
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Musso, Piero: *See—*
Cortona, Alessandro; and Musso, Piero, 3,653,482.
Cortona, Alessandro; and Musso, Piero, 3,653,483.
Musso, Pietro: *See—*
Cortona, Alessandro; and Musso, Pietro, 3,637,061.
Cortona, Alessandro; Musso, Pietro; Saltini, Fabrizio; and Fiorenza, Giorgio, 3,641,317.
Mustacchi, Henry: *See—*
Islam, Rafiqul; Garnish, Sidney George; Figov, Murray; and Mustacchi, Henry, 3,639,421.
Mustafin, Fuat Akhtemovich: *See—*
Makarov, Gleb Nikolaevich; Zhitov, Boris Nikolaevich; Zagorets, Anatoly Mikhailovich; Korolev, Jury Germanovich; Sytkov, Konstantin Ivanovich; Filonenko, Jury Yakovlevich; Dvorin, Semen Semenovich; Lerner, Ruvim Zinovievich; Mustafin, Fuat Akhtemovich; Semnov, Alexandr Semenovich;

- Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich, 3,667,746.
Mustakas, Gus C.; Albrecht, William J.; and Bookwalter, George N., to United States of America, Agriculture. Production of vegetable protein beverage base. 3,639,129, 2-1-72, Cl. 99-64.
Mustaklem, Isa Christopher: *See—*
Darsi, Chandrasekhara Rao; Feick, John Edwin; and Mustaklem, Isa Christopher, 3,692,831.
Mustert, Rudolf. Method and apparatus for examining intaglio printing. 3,634,012, 1-11-72, Cl. 356-71.
Mustert, Rudolf, to Landis & Gyr AG. Apparatus for optically testing the genuineness of bank notes and other tokens of value. 3,679,314, 7-25-72, Cl. 356-71,000.
Mustoe, Robert M.: *See—*
Veschuroff, William C.; and Mustoe, Robert M., 3,694,298.
Musyt, William; and Tremelin, James D. Flexible fabric container and method of making same. 3,703,201, 11-21-72, Cl. 150-500.
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Motalipassi, Ettore: *See—*
Landow, Charles D.; and Motalipassi, Ettore, 3,705,505.
Mutch, Robert Douglas, to Dominion Bridge Company Limited. Ingot and mold handling tongs. 3,674,302, 7-4-72, Cl. 294-118,000.
Mutchler, John Powell, to Atlas Chemical Industries, Inc. Corrosion inhibitors for oil media. 3,639,240, 2-1-72, Cl. 252-52.
Muter, Bryce A.: *See—*
Chiasson, Wilbert A.; Barhorst, Ralph E.; and Muter, Bryce A., 3,688,180.
Muter, Richard B.; and Lawrence, William F., to United States of America, Interior. Utilization of coal-burning power plant by-products. 3,642,445, 2-15-72, Cl. 23-25.
Muth, Karl: *See—*
Weber, Helmut; Weyer, Rudi; Aumuller, Walter; Muth, Karl; and Stach, Kurt, 3,655,756.
Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Stach, Kurt, 3,705,151.
Weyer, Rudi; Aumuller, Walter; Weber, Helmut; Muth, Karl; and Heerdt, Ruth, 3,644,634.
Muth, Willi: *See—*
Rottner, Emil; Bock, Franz; Muth, Willi; and Wenzel, Gunter, 3,678,146.
Muto, Hidehiko, to Gakken Co., Ltd. Water toy. 3,634,968, 1-18-72, Cl. 46-243.
Muto, Iwao; Matsumura, Yutaka; Nishifujii, Katsuyuki; and Matsura, Kenji, to Nippon Kokan Kabushiki Kaisha. Holding and follow-up mechanism for ultrasonic flaw detector. 3,670,562, 6-20-72, Cl. 73-71,500.
Muto, Katsutoshi: *See—*
Awazu, Kenzo; Matsunaga, Kazu; Muto, Katsutoshi; Kai, Junjiro; and Oi, Kyoko, 3,673,103.
Muto, Kikuo: *See—*
Sakurai, Masao; and Muto, Kikuo, 3,647,340.
Muto, Masataro: *See—*
Takezawa, Ise; Muto, Masataro; and Hori, Koichi, 3,675,606.
Muto, Masataro; Yagasaki, Masaaki; and Hosumi, Ken, to Mitsubishi Jukogyo Kabushiki Kaisha. Sheet material pressing device. 3,633,896, 1-11-72, Cl. 266-23.
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Muto, Takeo: *See—*
Tanaka, Kazuo; Kanayama, Toshihiko; Yasuda, Tetuya; Tutiya, Hidetaka; Kikuchi, Yoshio; and Muto, Takeo, 3,659,413.
Muto, Yoshio: *See—*
Okada, Tsuneo; Onodera, Yutaka; Mitsuoka, Takeshi; Saito, Yukinori; Muto, Yoshio; Anayama, Takeshi; and Yasukochi, Ko, 3,691,046.
Muto, Yuhei: *See—*
Yokota, Ryosuke; and Muto, Yuhei, 3,648,049.
Mutoh, Norio: *See—*
Fujikake, Kenji; Mutoh, Norio; and Yagi, Yuji, 3,691,833.
Mutru, Jean L. Amphibious helicopter type aircraft. 3,640,485, 2-8-72, Cl. 244-12.
Mutsch, Edward L.: *See—*
Fridinger, Tomas L.; and Mutsch, Edward L., 3,646,062.
Fridinger, Tomas L.; and Mutsch, Edward L., 3,681,386.
Mutschler, Edward Charles, to Xerox Corporation. Programmable tone dispenser. 3,659,556, 5-2-72, Cl. 118-637.
Mutschler, Otto. Ink flow control in a fountain pen. 3,645,636, 2-29-72, Cl. 401-227.
Mutsuhide, Matsuda: *See—*
Takashi, Uchiyama; Tadashi, Ito; and Mutsuhide, Matsuda, 3,683,769.
Mutter, William W., to Bulova Watch Company, Inc. Miniaturized battery-operated tuning-fork timepiece. 3,672,153, 6-27-72, Cl. 58-23,0tf.
Muttera, William H., Jr.: *See—*
Hueser, Elliott G.; and Muttera, William H., Jr., 3,698,296.
Mutushev, Gavril Akhmetovich: *See—*
Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
Mutz, Wolfgang; Killgus, Theodor; and Fischer, Artur, said Mutz and said Killgus assor. to said Fischer, Artur. Vehicle track for use in toy building kits. 3,643,865, 2-22-72, Cl. 238-10.
Muyskens, Dirk J.: *See—*
Mucenicks, Paul R.; and Muyskens, Dirk J., 3,692,583.
Muzhits, Vitold Iosifovich: *See—*
Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leenieux, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreievich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.
Muzlish, Philip: *See—*
Wybrow, Patrick S.; and Muzlish, Philip, 3,650,205.
Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A., to Richardson Company, The. Resin amine and acetylenic alcohol corrosion inhibiting compositions. 3,632,524, 1-4-72, Cl. 252-392.
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MWA Company: *See—*
Hopkins, Richard G., 3,635,169.
Mwanyoha, Bakari. Hanger. 3,690,611, 9-12-72, Cl. 248-205,00a.
My-T-Veyor Corporation: *See—*
Witt, George L., 3,653,488.
Myachev, Vladimir Fedorovich: *See—*
Chelnokov, Ivan Ivanovich; Garbuzov, Vladimir Mikhailovich; Koshelev, A. Vladimir; Levit, Georgy Mikhailovich; Maltsev, Albert Alexandrovich; and Myachev, Vladimir Fedorovich, 3,701,402.
Myasnikov, Nikolai Fedorovich: *See—*
Bekhtle, Georgy Alexandrovich; Myasnikov, Nikolai Fedorovich; Mitrofanov, Jury Eremeevich; Berestov, Evgeny Stepanovich; Kauvasinsky, Albert Frantsevich; Leibson, Mark Lazarevich; and Derkach, Viktor Gershovich, 3,690,454.
Myasoed, Anatoly Eliseevich: *See—*
Basin, Genrikh Maxovich; Gorenstein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Lintskey, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Yakov Benediktovich, 3,648,471.
Myer, Bob N. Radiator overflow apparatus. 3,662,820, 5-16-72, Cl. 165-51.
Myer, Caleb H., to Kerr Glass Manufacturing Corporation, mesne. Crown and methods of making same. 3,707,133, 12-26-72, Cl. 113-121,00a.
Myer, Clifford E., to Xercon, Inc., mesne. Light-responsive switching circuit. 3,676,685, 7-11-72, Cl. 250-206,000.
Myer, David: *See—*
Budman, Richard R.; and Myer, David, 3,688,778.
Myer, James A.; Sharma, Ramesh D.; and Kierstead, Edward J., to Avco Corporation. Transverse dye laser stimulation with pulsed nitrogen laser. 3,684,979, 8-15-72, Cl. 331-94,500.
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- Maisnik, Hugo J., 3,701,438.
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- Myers, Charles H.: *See—*
- Egnaczak, Raymond K.; Myers, Charles H.; and Zawadzki, Edward A., 3,656,847.
- Myers, Charles J.: *See—*
- Burke, John E.; Kaiser, Edward J.; and Myers, Charles J., 3,643,531.
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- Myers, Charles T.: *See—*
- Kappelman, Benjamin O., and Myers, Charles T., 3,646,648.
- Myers, Clifford E., to Xercon, Inc., mesne. Light-operated control device. 3,679,906, 7-25-72, Cl. 250-239.000.
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- Myers, Clyde B. Highly siliceous solid sodium silicate. 3,690,822, 9-12-72, Cl. 423-334.000.
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- Goelzer, William C.; Moratelli, Patrick A., Jr.; Griffith, Albert M., III; Myers, David D.; Opitz, Herman E.; and Procopio, John J., 3,684,469.
- Myers, Edward B., to Honeywell Inc. Cage valve with multi-purpose ring. 3,635,247, 1-18-72, Cl. 137-625.5.
- Myers, Ernest L.: *See—*
- Huffaker, James E.; Myers, Ernest L.; Dillon, Brian D.; and Dolen, Cecil W., 3,695,573.
- Myers, George Scott, Jr.: *See—*
- Maplesden, Douglas Cecil; and Myers, George Scott, Jr., 3,659,020.
- Myers, Gerald D.: *See—*
- King, James Robert; and Myers, Gerald D., 3,677,062.
- Myers, Guy A.: *See—*
- McDonald, Patrick H.; Blake, Henry W.; Myers, Guy A.; Pugh, Claud E.; and Todd, Edward S., 3,633,403.
- Myers, Helen T.: *See—*
- Myers, Robert R.; and Hayes, Fay A., 3,688,908.
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- Myers, Herbert, to Mobil Oil Corporation. Polysulfurized olefins. 3,697,499, 10-10-72, Cl. 260-139.000.
- Myers, Herman A., to Insta-Snap, Inc. Pipe wrenches. 3,636,800, 1-25-72, Cl. 31-145.
- Myers, Herman A. Ratchet-like wrench. 3,640,158, 2-8-72, Cl. 81-583.
- Myers, Herman A., to Insta-Snap, Inc. Plier-like tools. 3,657,947, 4-25-72, Cl. 81-134.
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- Myers, Herman A. Liquid fuel operated automatic weapons. 3,673,917, 7-4-72, Cl. 89-7.000.
- Myers, Herman A. Open end two point contact wrench. 3,682,024, 8-8-72, Cl. 81-129.000.
- Myers, Herman A. Wrench head. 3,695,124, 10-3-72, Cl. 81-121.00r.
- Myers, James E., to Clark Equipment Company. Adjustable shelf support bracket. 3,700,114, 10-24-72, Cl. 211-150.000.
- Myers, John A. Method for making lengths of rope. 3,704,578, 12-5-72, Cl. 57-1.00r.
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- Rossi, Harry; and Myers, John H., 3,705,681.
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- Myers, Lawrence A., to Chore-Time Equipment, Inc. Poultry waterer. 3,675,627, 7-11-72, Cl. 119-72.000.
- Myers, Lester L., to Mobile Aerial Towers. Torsion bar stabilizing apparatus for vehicles. 3,690,693, 9-12-72, Cl. 280-124.00r.
- Myers, Lester W., to Electronic Communications, Inc. Gross leak detector and method. 3,646,804, 3-7-72, Cl. 73-45.5.
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- Needham, Donald G.; Walker, Howard B.; and Myers, Luther O., Jr., 3,694,543.
- Myers, Michael C.: *See—*
- Sarsten, Jan A.; Zacks, Kenneth I.; and Myers, Michael C., 3,668,882.
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- Myers, Neo, to Robertshaw Controls Company. Pneumatic control system and temperature responsive valve construction therefor or the like. 3,687,290, 8-29-72, Cl. 210-149.000.
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- Middendorf, William H.; Myers, Ralph S.; Fritz, Edward J.; and Koch, Jack N., 3,638,173.
- Myers, Raymond J.: *See—*
- Albright, John D.; and Myers, Raymond J., 3,645,330.
- Myers, Robert: *See—*
- Misek, Victor A.; and Myers, Robert, 3,641,549.
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- Lauck, Peter, III, 3,679,872.
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- Myers, Thomas A. Pressure control well head for slanted bore holes. 3,680,632, 8-1-72, Cl. 166-89.000.
- Myers, William N., Jr., to American Micro-Systems, Inc., mesne. Frequency selecting system. 3,674,917, 7-4-72, Cl. 178-2.00r.
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- Shaddock, Roland E., 3,658,589.
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- Myhre, Jon F. Electric lamp. 3,678,264, 7-18-72, Cl. 240-84.000.
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- Seltzer, Harry, 3,693,448.
- Myles, Walter E., to Singer-General Precision, Inc. Motion picture projector. 3,632,194, 1-4-72, Cl. 352-200.
- Myles, Walter Edward, to Singer Company, The, mesne. Optical system to reduce image to lens distance by polarization control. 3,682,532, 8-8-72, Cl. 350-157.000.
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- Myrah, Truman L. Plug-in flashlight extension. 3,634,680, 1-11-72, Cl. 240-10.6.
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- Hedman, Clarence L., Jr.; and Myrenne, Karl-Dieter S., 3,674,341.
- Myrenne, Karl-Dieter S., to Melabs, Inc. High-speed microvolume membrane osmometry. 3,661,011, 5-9-72, Cl. 73-64.3.
- Myring, Verne E.: *See—*
- Bailey, Robert C.; Estes, Harry A.; James, Glen S.; Klug, James R.; Montillon, Henry A.; Myring, Verne E.; Robertson, Orville H.; Sargeant, Blaine W.; and Sorensen, Neal E., 3,679,200.
- Myrels, Karol J.: *See—*
- Rix, Charles E.; and Myrels, Karol J., 3,682,685.
- Myrik, Stanislaw; and Trnecny, Jaromir, to Kaučuk, narodni podnik. Process for preparing expandable vinyl aromatic polymers. 3,647,723, 3-7-72, Cl. 260-2.5.
- Mystowski, Edward J.: *See—*
- Markus, Joseph; Rowe, James H.; Dew, Kenneth L.; and Mystowski, Edward J., 3,692,975.
- N L Industries, Inc.: *See—*
- Alpert, Marshall B.; and Preston, John P., 3,632,527.
- Andrews, Robert S., Jr.; and McDaniels, William C., 3,671,427.
- Cline, Charles W., 3,647,495.
- Dantro, Horace F., 3,681,133.
- Estes, James D.; and De Gough, Kirby, 3,704,749.
- Foss, Warren M., 3,698,894.
- Griffin, Thomas S.; Rodgers, Warren; and Trampier, Charles R., Jr., 3,681,101.
- Grottyhann, Arthur G., 3,662,605.
- Hoffman, George W., 3,649,556.
- Kruse, Uno; Herman, Daniel F.; and Wilsher, Rudolph S., 3,681,289.
- Lynd, Langtry E.; Nilsen, Arnold; and Mac Cardle, Louis E., 3,681,047.
- Nilsen, Arnold E., 3,647,414.
- Olmsted, Lester E.; Puetz, Eckard J.; and Rodgers, Warren, 3,660,021.
- Weeks, Wyatt J., 3,704,962.
- N L Industries, Inc., mesne: *See—*
- Bronson, George E., 3,674,528.
- N-S-W Corporation: *See—*

- Wilmeth, Claude H., 3,706,244.
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- Dragsund, Inge Kore; and Naas, Erling M., 3,667,859.
- Naastepad, Pieter Aart: *See—*
- van Melis, Theodorus Henricus Carolus; Naastepad, Pieter Aart; and de Vos, Krijn Jacobus, 3,660,175.
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- Wakai, Shuzo; and Nabae, Mitsuo, 3,657,577.
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- Naber, Joseph S., to Fastener Corporation. Control circuit for single stroke electrical tools. 3,662,190, 5-9-72, Cl. 307-252.
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- Mouri, Katsuo; Miyazaki, Gentaro; and Nabeyama, Hiroaki, 3,691,475.
- Nabisco, Inc.: *See—*
- Griner, Arthur J.; and Blain, William A., 3,653,335.
- Griner, Arthur J.; and Blain, William A., 3,671,163.
- Ronai, Kenneth S.; and Spanier, Henry C., 3,640,728.
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- Rowe, James H.; and Markus, Joseph, 3,663,239.
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- Shulman, Arthur; and Bonis, Henry M., Jr., 3,664,281.
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- Bonk, Henry W.; Grieve, Robin L.; Nadeau, Herbert G.; and Palmer, Peter G., 3,644,168.
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- Pitner, Alfred, 3,632,178.
- Pitner, Alfred, 3,660,989.
- Nadelson, Jeffrey: *See—*
- Houlihan, William J.; and Nadelson, Jeffrey, 3,661,910.
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- Fujiwara, Shigeru; Nagae, Kenji; and Okuhashi, Tomomi, 3,669,736.

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Suzuki, Yoshiro; Nagahara, Shigehiro; and Ichimura, Nobuyoshi, 3,674,520.
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Suzuki, Shigeru; and Nagahara, Yasumori, 3,634,637.
Suzuki, Shigeru; Sugita, Keiji; and Nagahara, Yasumori, 3,672,762.
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Fukawa, Mitsunosuke; Oishi, Haruo; Saruya, Kichitaro; Nagai, Akira; and Nagai, Yoshitaro, 3,669,766.
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Mizushima, Yutaka; and Nagai, Hidetaka, 3,689,632.
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Hasebe, Morikuni; Nagai, Hiroshi; and Fukuda, Teruo, 3,663,742.
Suzuki, Shigeyuki; Kaneda, Isamu; Takahashi, Masaaki; and Nagai, Hiroshi, 3,640,969.
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Kurokawa, Toshio; Nishiyama, Shoji; Nagai, Katsumi; and Mochizuki, Yui, 3,700,229.
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Miyakawa, Tadashito; and Nagai, Kazuko, 3,661,729.
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Okubo, Kinji; and Nagai, Toshihiko, 3,694,203.
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Okano, Takeshi; and Nagai, Masakazu, 3,682,055.
- Nagai, Maskazu: *See—*
Ikegami, Yoshizo; Abe, Kuniomi; Nagai, Maskazu; Fukuda, Susumu; and Kakei, Takehiko, 3,633,484.
- Nagai, Mitsuru: *See—*
Shimada, Hiroshi; Nagai, Mitsuru; Ohfuji, Mitsuo; and Sasaki, Toshiyuki, 3,690,305.
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Okubo, Kinji; and Nagai, Toshihiko, 3,694,203.
- Nagai, Yasutaka: *See—*
Nishimura, Haruki; and Nagai, Yasutaka, 3,635,985.
Umamoto, Susumu; Nagai, Yasutaka; and Nakamura, Keiji, 3,637,704.
- Nagai, Yoshiro: *See—*
Nishiyama, Shigeru; Kusano, Hiroshi; Nagai, Yoshiro; and Miura, Satoshi, 3,706,615.
- Nagai, Yoshitaro: *See—*
Fukawa, Mitsunosuke; Oishi, Haruo; Saruya, Kichitaro; Nagai, Akira; and Nagai, Yoshitaro, 3,669,766.
- Nagaki, Ryuzo: *See—*
Shirota, Hiroharu; Yonemoto, Kunio; Masuda, Tuiyoshi; Ito, Takayuki; and Nagaki, Ryuzo, 3,652,747.
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Shimizu, Teisuke; Sasaki, Atsuo; and Nagaki, Shigeo, 3,650,666.
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Kokubo, Ryo; Yokomichi, Koji; Takakuwa, Yasuo; Maruyama, Isao; Shiroishi, Akihiro; and Nagakura, Mizuhiko, 3,637,686.
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Kutsuwada, Noboru; and Nagamatsu, Katsumi, 3,685,485.
Tanaka, Hiroshi; Nagamatsu, Katsumi; Marushima, Giichi; and Takahashi, Shinkichi, 3,666,363.
- Nagamatsu, Kazuo: *See—*
Ishida, Shinichi; Ohshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; Kurita, Kunio; Ohki, Hayashi; Sato, Kunio; Nagamatsu, Kazuo; and Tokushige, Akira, 3,654,228.
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- Nagamatsu, Takeo; Yamada, Yusaku; and Yamada, Kazumi, to Fujitsu Limited. Video display system including raster type cathode ray tube. 3,678,498, 7-18-72, Cl. 340-324.00a.
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- Nagamori, Shigeru: *See—*
Sakata, Masanobu; Nagata, Keniti; and Nagamori, Shigeru, 3,690,730.
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- Nagamura, Masao; Seya, Hiromichi; Iseki, Takaya; and Suzuki, Mikio, to Asahi Glass Co., Ltd. Apparatus for fluidized-bed reactions. 3,645,700, 2-29-72, Cl. 23-284.
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Umecawa, Hamao; Hamada, Masa; Naganawa, Hiroshi; Takeuchi, Tomio; Maeda, Kenji; and Okami, Yoshiro, 3,639,582.
- Nagano, Akira: *See—*
Hatano, Isao; Nagano, Akira; and Yosimoto, Kenzi, 3,705,298.
Hatano, Isao; Nagano, Akira; and Yosimoto, Kenzi, 3,707,622.
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- Nagano, Hideo. Electric connector. 3,671,924, 6-20-72, Cl. 339-95.00d.
- Nagano, Hiroshi; Tomioka, Hideo; Yamataka, Akira; and Yoshida, Hirohiko, to Mitsubishi Jushi Kabushiki Kaisha. Apparatus for manufacturing tubular films of thermoplastic resins. 3,635,634, 1-18-72, Cl. 425-325.
- Nagano, Kentaro: *See—*
Ishimatsu, Tsuyoshi; Ito, Takashi; Yano, Masamitsu; Takeda, Hajime; and Nagano, Kentaro, 3,664,765.
- Nagano, Masahiko, to Akai Electric Company Limited. Speed control mechanism for a D.C. electric motor. 3,657,624, 4-18-72, Cl. 318-341.
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- Nagano, Toshihiro: *See—*
Nakazato, Hiroshi; Yokoyama, Masayoshi; Nagano, Toshihiro; and Kaneda, Kazuyoshi, 3,634,214.
- Nagano, Yuji: *See—*
Samejima, Hirotoshi; Nagano, Yuji; Ota, Shigenori; Kanzaki, Yasushi; Matsuo, Hideki; and Kuroda, Keizo, 3,658,557.
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- Naganuma, Mitsuki: *See—*
Akiyama, Susumu; and Naganuma, Mitsuki, 3,674,929.

- Nagao, Akira, to Nippon Gakki Seizo Kabushiki Kaisha. Ring fixing structure for wood-wind musical instrument and method of obtaining the same. 3,635,117, 1-18-72, Cl. 84-380.
- Nagao, Akira, to Nippon Gakki Seizo Kabushiki Kaisha. Tone hole covering assembly for a wood-wind musical instrument. 3,688,633, 9-5-72, Cl. 84-380.000.
- Nagao, Kameji: *See—*
Hara, Hikoharu; Oishi, Yasushi; and Nagao, Kameji, 3,676,141.
- Nagao, Kazuyoshi, to American Optical Corporation. Method of making a laminated light-conducting fiber material. 3,666,587, 5-30-72, Cl. 156-199.
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- Nagao, Nobuo; and Okuda, Toshio, to Chisso Corporation. Method for producing less-sticky pellets of amorphous polypropylene. 3,646,184, 2-29-72, Cl. 264-144.
- Nagao, Taichiro: *See—*
Kurauchi, Noritaka; Tada, Shotaro; Shima, Hiroshi; Hiraoka, Susumu; Nagao, Taichiro; Koyama, Masahiro; Shiraishi, Satoshi; Shindo, Masuo; and Kobayashi, Yoshinobu, 3,674,990.
- Nagao, Taku: *See—*
Kugita, Hiroshi; Takeo, Satoshi; Sato, Masanori; and Nagao, Taku, 3,646,008.
- Nagao, Tetsuya. Nut and washer feeding device. 3,670,387, 6-20-72, Cl. 29-211.00r.
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Furuya, Akio; Hayashi, Masaaki; Nagami, Kouichi; Uchida, Masakatsu; Nishino, Sakae; Asada, Toshikatsu; Nagao, Yasuo; Matsuda, Hiroyoshi; and Tsuchiya, Harufumi, 3,689,446.
- Nagaoka, Akinobu: *See—*
Okutani, Tetsuya; and Nagaoka, Akinobu, 3,654,264.
- Nagaoka, Koichi: *See—*
Fujimoto, Yasuo; Nagaoka, Koichi; Tatsukawa, Keizo; and Koiwa, Yoichi, 3,671,482.
- Nagaoka, Yoshitomi: *See—*
Sasaki, Reichi; and Nagaoka, Yoshitomi, 3,634,615.
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- Nagasaki, Ryukichi: *See—*
Kondo, Tatsuo; Nakajima, Hajime; and Nagasaki, Ryukichi, 3,669,759.
- Nagasaki, Senkichi: *See—*
Oshima, Yasuo; Nakazawa, Nobuhiko; Nagasaki, Senkichi; Naito, Takeo; Osada, Yasuaki; Okusa, Naoya; Inuaki, Akira; and Tanaka, Kazuyuki, 3,705,989.
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- Nagasawa, Fujio; Okamoto, Shosuke; Takagi, Eiichi; Yokoi, Mikio; and Mangyo, Mitsuo, to Mitsubishi Chemical Industries Limited. Suppressing the activity of plasmin in humans and animals with trans-4-(aminomethyl)-cyclohexane-1-carboxylic acid. 3,639,626, 21-72, Cl. 424-319.
- Nagasawa, Isao: *See—*
Matsui, Isamu; Nagasawa, Isao; Horiuchi, Tatsuo; Uchida, Hiroshi; and Uehara, Masao, 3,687,382.
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- Nagasawa, Masahiro; and Watanabe, Hiroyuki, to Matsushita Electric Industrial Co., Ltd. Thin film non-rectifying negative resistance device. 3,688,160, 8-29-72, Cl. 317-238.000.
- Nagasawa, Michio: *See—*
Tsumura, Jusha; Imaseki, Isumi; and Nagasawa, Michio, 3,692,896.
- Nagasawa, Shigeo, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Diesel fuel injection system with improved starting performance. 3,690,768, 9-12-72, Cl. 123-32.00g.
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Nishimura, Tatsumi; Nagasawa, Sumio; Shinohara, Hiroshi; and Kado, Masaru, 3,692,902.
- Nagasawa, Taro; Tomita, Mamoru; Obayashi, Tomokazu; Tamura, Yoshitaka; and Kenmotsu, Yoko, to Morinaga Milk Industry Co., Ltd. Process of producing a meat-like texturized food product. 3,674,500, 7-4-72, Cl. 99-17.000.
- Nagasawa, Tuneso: *See—*
Amo, Tadashi; and Nagasawa, Tuneso, 3,692,894.
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Kobayashi, Kanjiro; Uyama, Takashi; Suzuki, Hideo; and Shirai, Hiroshi, 3,660,499.
- Nagase, Kaneomi: *See—*
Taki, Hiromitsu; Hayakawa, Shigeru; and Nagase, Kaneomi, 3,676,351.
- Nagase, Minoru; and Matsuoka, Toshiyuki, to Nippon Air Brake Company, Ltd. Variable load brake control apparatus. 3,685,868, 8-22-72, Cl. 303-22.00r.
- Nagase, Sadao, to Mitsubishi Petrochemical Co., Ltd. Method of drawing thermoplastic synthetic resin film over a polyangular mandrel. 3,671,617, 6-20-72, Cl. 264-89.000.
- Nagase, Shunji; Baba, Hajime; Kodaira, Kazuo; and Abe, Takashi, to Industrial Science & Technology, Agency of. Method for the production of sulfur hexafluoride. 3,650,916, 3-21-72, Cl. 204-59.
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Oshima, Teruo; Wada, Takeshi; Nagase, Tsuneyuki; Masuko, Fujio; Hirooka, Masaaki; and Taniguchi, Isoji, 3,671,506.
- Nagashima, Hiroshi, to Noken Kogyo Kabushiki Kaisha. Apparatus for sensing the predetermined level of continuously fed particles. 3,651,289, 3-21-72, Cl. 200-61.2.
- Nagashima, Motoi, to Shima Kogaku Kabushiki Kaisha. Device for continuously altering the focal length of photographic lenses. 3,633,483, 1-11-72, Cl. 95-44.
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- Nagashima, Shinichiro; and Tsuchiya, Kaichi, to Canon Kabushiki Kaisha. Electroconductive organic insulating material. 3,706,551, 12-19-72, Cl. 96-1.500.
- Nagashiro, Waichi: *See—*
Okabe, Tadao; Oikawa, Mitsuru; Tanaka, Makoto; and Nagashiro, Waichi, 3,703,374.
- Nagata, Akio; Ando, Takuji; Izumi, Rokuro; and Sakakibara, Hideo. Antibiotic tuberculinomycin and process for preparing same. 3,639,580, 2-1-72, Cl. 424-116.
- Nagata, Etsuro, to Tokyo Shibaura Electric Co., Ltd. Apparatus for preparing a printed and punched card. 3,667,669, 6-6-72, Cl. 234-24.000.
- Nagata, Hideo: *See—*
Baba, Nobuyoshi; Adachi, Makoto; and Nagata, Hideo, 3,689,232.
Moriyama, Hiroaki; Yamamoto, Hisao; Nagata, Hideo; and Tamaki, Toshio, 3,634,433.
- Nagata, Jiro: *See—*
Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar, Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.
- Nagata, Junichi: *See—*
Uzile, Akira; and Nagata, Junichi, 3,683,997.
- Nagata, Keniti: *See—*
Sakata, Masanobu; Nagata, Keniti; and Nagamori, Shigeru, 3,690,730.
- Nagata, Koichiro: *See—*
Ito, Tomiyasu; Nagata, Koichiro; Ichikawa, Takehiko; and Kato, Tetsuya, 3,641,003.
- Nagata, Masanori: *See—*
Morita, Tadao; and Nagata, Masanori, 3,655,946.
Yamamoto, Mititaka; and Nagata, Masanori, 3,653,480.
Yamamoto, Mititaka; and Nagata, Masanori, 3,655,947.
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Hujita, Minoru; Nagata, Minoru; and Kubo, Seiji, 3,636,372.
Kubo, Masaharu; Hori, Ryoichi; and Nagata, Minoru, 3,703,710.
Masuhara, Toshiaki; Nagata, Minoru; and Kubo, Masaharu, 3,700,981.
Okabe, Takahiro; Nagata, Minoru; and Makimoto, Tsugio, 3,707,036.
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Yamaguchi, Yukiya; Fukushima, Kunihiko; Yasuda, Minoru; and Nagata, Shojiro, 3,701,095.
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Ishizawa, Kazutomo; Nagata, Yasunori; Abe, Junnosuke; and Fukuoka, Akira, 3,646,992.
- Nagata, Zenji: See—
Kurauchi, Noritaka; Fujimoto, Tokio; Yoshida, Kenichi; Ui, Masamitsu; Nagata, Zenji; and Kouno, Hirokazu, 3,636,436.
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Obuchi, Satoru; Fukuoka, Tokuji; Nagato, Saburo; Murakami, Kunio; Shigeta, Tamikazu; and Hayashi, Hiroyuki, 3,682,687.
- Nagato, Syoichi: See—
Kuwata, Tsutomu; Nagato, Syoichi; and Yamada, Tadashi, 3,637,761.
- Nagatomo, Hiroto: See—
Yamada, Eiichi; Arakawa, Yoshiteru; Yamamoto, Masayuki; and Nagatomo, Hiroto, 3,641,974.
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Suzuki, Saburo; Isono, Kiyoshi; and Nagatsu, Junsaku, 3,703,506.
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- Nagatsu, Toshiharu: See—
Umezawa, Hamao; and Nagatsu, Toshiharu, 3,663,700.
- Nagavarapu, Ramarao: See—
Reitan, Daniel K.; and Nagavarapu, Ramarao, 3,697,773.
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Ichikawa, Shigeo; and Nagawa, Keizo, 3,632,246.
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Kobayashi, Goro; Sugawara, Shinichi; and Nagawa, Masatoshi, 3,691,199.
- Nagawa, Yuji: See—
Meguro, Kanji; Kuwada, Yutaka; Nagawa, Yuji; and Masuda, Toru, 3,652,754.
- Nagayama, Masuzo: See—
Yamane, Izumi; Nagayama, Masuzo; and Takai, Makoto, 3,705,139.
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Yoshimori, Nobuo; Nagayama, Tsuguo; and Sato, Toshio, 3,680,695.
- Nagayashi, Saneyoshi: See—
Kikuchi, Masao; Kawashima, Toshihide; Kasahara, Koichi; and Nagayashi, Saneyoshi, 3,636,265.
- Nagayasu, Tadahiro: See—
Iwaoka, Mutsuo; Takegawa, Akio; Inoue, Hiraku; Egami, Katsusuke; Nishikura, Kouiti; Yamashita, Shigeji; and Nagayasu, Tadahiro, 3,698,178.
- Nagayoshi, Fumio: See—
Takata, Toyoharu; Fujii, Keisuke; Yano, Nobumitsu; Fukushima, Masao; Nagayoshi, Fumio; and Mizuno, Aiko, 3,692,768.
- Nagazono, Yasuro; and Kamijo, Terufumi, to TDK Electronics Company, Limited. Magnetic recording media. 3,681,137, 8-1-72, Cl. 117-235.000.
- Nagel, Erich: See—
Kohler, Roland; Nagel, Erich; Hujer, Friedrich; and Viehrig, Wolfgang, 3,674,365.
- Koleff, Boris; and Nagel, Erich, 3,646,870.
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Schloemer, Karl; Nagel, Otto; Platz, Rolf; and Weitz, Hans Martin, 3,657,374.
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Maisenbacher, Dieter, 3,656,223.
- Maisenbacher, Dieter, 3,691,599.
- Spindler, Siegfried W., 3,694,868.
- Nagengast, Philip Joseph: See—
Smith, Wilbur C.; and Nagengast, Philip Joseph, 3,637,331.
- Naghschi, Joseph: See—
Aceto, Nicholas C.; Naghschi, Joseph; and Komanowsky, Michael, 3,665,988.
- Nagin, Harry S. Skate for use on plastic skating surface. 3,689,091, 9-5-72, Cl. 280-11.120.
- Nagin, Tony. Interlocking chain structure. 3,645,146, 2-29-72, Cl. 74-89.21.
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Chiu, Thomas T.; Hock, Kenneth R.; and Nagle, Floyd B., 3,669,718.
- Nixon, Thomas E.; Barber, John A.; and Nagle, Floyd B., 3,666,699.
- Paige, William P.; and Nagle, Floyd B., 3,666,692.
- Nagler, Robert: See—
Susset, Jacques G.; and Nagler, Robert, 3,667,477.
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Kind, Dieter; Naglik, Manfred; Kaltoven, Albert; and Zwecker, Karl, 3,694,709.
- Naglowsky, Michael. Ceiling construction. 3,654,996, 4-11-72, Cl. 169-2.
- Nagorskaya, Zinaida Sergeevich: See—
Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pyanov, Valentin Nikiforovich; Golovkin, Jury Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich; Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.
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- Nagoya, Yoshishige: See—
Shindo, Hisao; Nagoya, Yoshishige; Takeuchi, Takashi; and Murai, Kosuke, 3,652,263.
- Nagoya Yukagaku-Kogyo Kabushiki Kaisha: See—
Horiki, Seinosuke, 3,667,988.
- Nagoya, Yutaka; and Toi, Toshio, to Nippon Air Brake Company, Ltd. System for automatically releasing connection between cars in train. 3,690,469, 9-12-72, Cl. 213-212.000.
- Naguib, Ahmed G. E., to Carpenter, Edith W. Process for beneficiating ilmenite. 3,660,029, 5-2-72, Cl. 23-202.
- Nagumo, Shin-ichi: See—
Nakajima, Yasuo; Hayashi, Yoshimasa; Yoshimura, Toru; Sugihara, Kunihiko; and Nagumo, Shin-ichi, 3,680,318.
- Nagumo, Sin-ichi: See—

- Nakajima, Yasuo; Hayashi, Yoshimasa; and Nagumo, Sin-ichi, 3,670,496.
- Nagus, Eilfred: See—
Harting, Donald C.; Danielsen, Berne E.; and Nagus, Eilfred, 3,634,969.
- Nagy, Andrew: See—
Dunham, Tom David; Yeakley, Lester Marvin; and Nagy, Andrew, 3,696,456.
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Shaver, William R.; and Nagy, Ernest J., 3,633,515.
- Nagy, Ernest J., to Pullman Incorporated. Closure actuating mechanism. 3,650,221, 3-21-72, Cl. 105-240.
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Nagy, Charles E.; and Nagy, John F., 3,647,243.
- Nagy, Charles E.; and Nagy, John F., 3,666,216.
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Brindisi, Frank A., Jr.; Nagy, Joseph S.; and Yarkosky, Eugene F., 3,677,949.
- Nagy, Michael J.: See—
Buller, Joseph S.; Nagy, Michael J.; and Peterson, Eugene W., 3,640,091.
- Nagy, Sandor B.: See—
Greguss, Pal; Nagy, Sandor B.; Erdei, Janos; and Toth, Lajos, 3,695,825.
- Nagy, Stanley S.; and Humphrey, Floyd B., to Sperry Rand Corporation, mesne. Magnetic storage medium. 3,702,239, 11-7-72, Cl. 29-195.000.
- Nagy, Zoltan: See—
Deutsch, Marshall E.; Mead, Louis W.; and Nagy, Zoltan, 3,657,541.
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Bergmeyer, Hans Ulrich; Naher, Gotthilf; Thum, Waldemar; Lauener, Albert; and Emmer, Rudolf, 3,677,901.
- Nahirny, John: See—
Krajewski, Werner; and Nahirny, John, 3,648,136.
- Nahon, Abraham S. Perpetual appointment reminder. 3,696,532, 10-10-72, Cl. 35-62.000.
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Desai, Nalin Binduprasad; Jayaraman, Ponnusami; Ramanathan, Visvanathan; Artz, Klaus; Naik, Navnitrai Nagarji; and Jenny, Walter, 3,679,657.
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Eads, Charles L.; and Nail, Billie G., 3,659,445.
- Nail, Billie G., to Adams Rite Manufacturing Company. Maximum security lock bolt. 3,659,885, 5-2-72, Cl. 292-2.
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- Naiman, Michael I.: See—
Heintzelman, William J.; and Naiman, Michael I., 3,699,154.
- Nairn-Williamson Limited: See—
Norcross, Kenneth, 3,632,727.
- Naismith, Thomas D.: See—
Brooks, Frank W.; and Naismith, Thomas D., 3,670,853.
- Naito, Atsushi: See—
Shirasaka, Makoto; Tanabe, Katsumi; Naito, Atsushi; and Ieki, Masako, 3,639,212.
- Naito, Daiji; and Ogawa, Shigeyoshi, to Daikin Kogyo Co., Ltd. Process for preparing fluorination catalyst. 3,673,113, 6-27-72, Cl. 252-441.000.
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Sugahara, Yujiro; Naito, Hiroyuki; Takai, Kiyoshi; and Usui, Kouichi, 3,650,681.
- Naito, Kenji: See—
Adica, Osamu; Naito, Kenji; Ogino, Katsuhiko; and Kuroda, Hiroyuki, 3,658,656.
- Furuoya, Itsuo; Ogino, Katsuhiko; Kamatani, Yoshio; and Naito, Kenji, 3,662,016.
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Miyake, Akira; Iwasaki, Hidesuke; and Naito, Kenzo, 3,694,548.
- Naito Koichiro: See—
Iwao, Norito; Naito Koichiro; Kawaguchi, Tadashi; Maeda, Minoru; and Norita, Toshihito, 3,681,052.
- Oishi, Masashi; Shimada, Michihiko; Nakayama, Yuji; Naito, Koichiro; and Okamoto, Kazuhiko, 3,669,645.
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- Naito, Shozo: See—
Tanaka, Hiroshi; Naito, Shozo; and Shimizu, Tetsuji, 3,656,103.
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Nihira, Shohachi; Okawara, Yasuo; Naito, Takehisa; and Moriya, Mikio, 3,690,249.
- Naito, Takeo: See—
Oshima, Yasuo; Nakazawa, Nobuhiko; Nagasaki, Senkichi; Naito, Takeo; Osada, Yasuaki; Okusa, Naoya; Inuaki, Akira; and Tanaka, Kazuyuki, 3,705,989.
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- Naito, Yoshiyuki: See—
Suetake, Kunihiko; and Naito, Yoshiyuki, 3,688,224.
- Naive, James V.: See—
Swan, Sherman S., 3,650,100.
- Najer, Henry: See—
Giudicelli, Don Pierre Rene Lucien; and Najer, Henry, 3,632,580.
- Najera, Louis Martin: See—
Allenbaugh, Howard M., 3,673,605.
- Najjar, Hann F.: See—
Blasbalg, Herman L.; Hayase, Joshua Y.; Crutchfield, Richard C., Jr.; and Najjar, Hann F., 3,700,820.
- Najvar, Daniel J.; Parks, Christ F.; Bennett, Garry A.; and Nimerick, Kenneth H., to Dow Chemical Company, The. Stabilization of soil with water-in-vinyl ester resin emulsions. 3,651,649, 3-28-72, Cl. 61-36.
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Yamada, Shigeki; Miyazawa, Kokichi; Naka, Hideaki; and Yoshida, Yoshio, 3,660,078.
- Naka, Jinshichi; Tokuda, Yasunori; Kono, Takehiko; and Utsugi, Jun, to Takeda Chemical Industries, Ltd. Method for the production of a flavor enhancing crystal. 3,677,773, 7-18-72, Cl. 99-140.00n.
- Naka, Kiyomi: See—
Taneda, Yasuo; Naka, Kiyomi; and Horike, Akihiro, 3,695,877.
- Nakabayashi, Masamitsu: See—

- Kazama, Seizi; and Nakabayashi, Masamitsu, 3,663,513.
 Nakabayashi, Masao: *See—*
 Kodama, Yutaka; Kodama, Tsutomu; Nakabayashi, Masao; and Komatsu, Shigekazu, 3,699,188.
 Nakabayashi, Nobuo: *See—*
 Cassidy, Harold G.; Wegner, Gerhard; and Nakabayashi, Nobuo, 3,707,488.
 Nakada, Akira: *See—*
 Hoshino, Yutaka; Iwaki, Yoshikazu; Matsukawa, Koshiro; Nakada, Akira; Sato, Fumio; and Uno, Kazuo, 3,687,913.
 Nakada, Masanori: *See—*
 Kurahashi, Koichiro; Nakada, Masanori; Abe, Masaaki; and Nishimura, Koichi, 3,702,896.
 Nakada, Seizi, to Nippon Gakki Seizo Kabushiki Kaisha. Key supporting structure of keyboard musical instruments. 3,663,738, 5-16-72, Cl. 84-423.000.
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 Nakae, Hiroyuki: *See—*
 Hosoda, Kirokuro; Shina, Naonori; Kadowaki, Yoshio; and Nakae, Hiroyuki, 3,696,059.
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 Nakagawa, Akira; and Inoue, Kazumasa, to Suzuki Metal Industry Co., Ltd. Process for the continuous heat treatment of a low alloy steel wire material. 3,666,572, 5-30-72, Cl. 148-134.000.
 Nakagawa, Asaharu: *See—*
 Okazaki, Kaoru; Shimokawa, Yoichi; Nakagawa, Asaharu; and Sugii, Kenji, 3,632,666.
 Nakagawa, Fumio: *See—*
 Hosokawa, Masuo; Yokoyama, Tohei; and Nakagawa, Fumio, 3,670,886.
 Nakagawa, Hidenori: *See—*
 Eshima, Shozo; Fujimura, Isao; and Nakagawa, Hidenori, 3,657,062.
 Nakagawa, Hiroshi: *See—*
 Hamada, Motoharu; and Nakagawa, Hiroshi, 3,691,055.
 Nakagawa, Hiroyuki: *See—*
 Otsuka, Tokio; Sasabe, Shozo; and Nakagawa, Hiroyuki, 3,668,219.
 Nakagawa, Hisasi: *See—*
 Ogawa, Hiroshi; Yamane, Sigeto; Nakagawa, Hisasi; and Uchida, Akinari, 3,672,355.
 Nakagawa, Isamu: *See—*
 Takemura, Toshio; Nakagawa, Isamu; and Nakashio, Seizo, 3,635,890.
 Nakagawa, Jihci, to Olympus Optical Co., Ltd. Ultrawide-angle photographic objective lens. 3,645,605, 2-29-72, Cl. 350-214.
 Nakagawa, Junichiro: *See—*
 Nakagawa, Keijiro; Nakagawa, Junichiro; and Tsuda, Wasuke, 3,665,937.
 Nakagawa, Junichiro; and Kurata, Etsuo, to Nakagawa Seisakusho Co., Ltd. Top comb. 3,688,347, 9-5-72, Cl. 19-221.000.
 Nakagawa, Kazumi; and Shimoda, Keitaro, to Japan Exlan Company Limited. Method of manufacturing acrylic composite yarn. 3,644,609, 2-22-72, Cl. 264-168.
 Nakagawa, Kazuo: *See—*
 Takeuchi, Makoto; Nakagawa, Kazuo; Miyamae, Teruo; and Kase, Terubumi, 3,646,429.
 Nakagawa, Keijiro; Nakagawa, Junichiro; and Tsuda, Wasuke. Cylinder comb. 3,665,937, 5-30-72, Cl. 132-11.
 Nakagawa, Kenichi: *See—*
 Minagawa, Motonobu; Nakagawa, Kenichi; and Goto, Minoru, 3,673,152.
 Nakagawa, Kennosuke. Device for sealing a rotating shaft. 3,656,765, 4-18-72, Cl. 277-81.
 Nakagawa, Kenshi: *See—*
 Horikawa, Susumu; and Nakagawa, Kenshi, 3,677,785.
 Nakagawa, Koji: *See—*
 Ishimoto, Sachio; Nakagawa, Koji; Togawa, Haruo; and Chubachi, Sumio, 3,649,685.
 Seko, Maomi; Yomiyama, Akira; Miyake, Tetsuya; Nakagawa, Koji; Yoshida, Muneco; and Inada, Koji, 3,657,099.
 Seko, Maomi; Yomiyama, Akira; Takahashi, Yasunobu; Seta, Shigetoshi; and Nakagawa, Koji, 3,664,936.
 Seko, Maomi; Yomiyama, Akira; Ogawa, Shinsaku; Miyake, Tetsuya; Isoya, Toshiro; and Nakagawa, Koji, 3,682,793.
 Nakagawa, Kozi, to Denki Kagaku Kogyo Kabushiki Kaisha. Process for the production of cement expansive additives. 3,666,515, 5-30-72, Cl. 106-314.000.
 Nakagawa, Saburo: *See—*
 Nakao, Osakazu; Nakagawa, Saburo; Hirose, Juichi; Yamazaki, Shigeyuki; Amano, Takashi; Nakamura, Toshio; and Yamamoto, Hiroyuki, 3,658,735.
 Nakao, Osakazu; Nakagawa, Saburo; Hirose, Juichi; Yamazaki, Shigeyuki; Amano, Takashi; Nakamura, Toshio; and Yamamoto, Hiroyuki, 3,669,916.
 Nakagawa Seisakusho Co., Ltd.: *See—*
 Nakagawa, Junichiro; and Kurata, Etsuo, 3,688,347.
 Nakagawa, Shinji: *See—*
 Yamamoto, Katsuro; and Nakagawa, Shinji, 3,666,132.
 Yamamoto, Katsuro; Obata, Kuniyoshi; and Nakagawa, Shinji, 3,688,938.
 Nakagawa, Takashi; Tsutsumi, Tadashi; and Hori, Hiroo, to Tokyo Shibaura Electric Co., Ltd. Semiconductor photosensitive device with a rare earth oxide compound forming a rectifying junction. 3,670,213, 6-13-72, Cl. 317-234.00r.
 Nakagawa, Takayuki: *See—*
 Dohi, Tadahi; Yu, Taneyoshi; Nakagawa, Takayuki; and Hiraoka, Kozi, 3,651,132.
 Nakagawa, Tamio: *See—*
 Watanabe, Kumao; Matumoto, Tooru; and Nakagawa, Tamio, 3,663,974.
 Nakagawa, Toshiya, to Iwasaki Tsushinki Kabushiki Kaisha; a/k/a Iwatsu Electric Co. Ltd. Apparatus for displaying base lines used for a characteristic display. 3,681,647, 8-1-72, Cl. 315-18.000.
 Nakagawa, Yoshinobu: *See—*
 Iwama, Masakuni; Yamamoto, Toshihiko; Kasai, Keiji; Nakagawa, Yoshinobu; and Endo, Takaya, 3,649,285.
 Nakagawa, Yunosuke: *See—*
 Nakajima, Meiken; and Nakagawa, Yunosuke, 3,677,954.
 Nakajima Precision Industries, Ltd.: *See—*
 Kikuchi, Sigehito; Takeuchi, Hiroshi; and Aman, Norio, 3,690,432.
 Nakagiri, Masaru; Onoda, Katsuhiro; Igariishi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tooru, to Nippon Electric Company, Limited. Semiconductor integrated circuit memory device utilizing insulated gate type semiconductor elements. 3,702,466, 11-7-72 Cl. 340-173.00r.
 Nakagome, Yukio; Teramura, Hiroichi; Fukata, Yasuo; and Ando, Sumitoshi, to Kadusai Denshim Denwa Kabushiki Kaisha. Time-divisional connection system for a plurality of digital communication circuits. 3,668,328, 6-6-72, Cl. 179-15.00q.
 Nakagome, Yukio; Kawai, Kazuo; Yanagida, Hidetaka; Shintani, Sotokichi; and Michishita, Isakichi, to Kokusai Denshin Denwa Kabushiki Kaisha. Phase detection system for at least one digital phase-modulated wave. 3,697,881, 10-10-72, Cl. 329-104.000.
 Nakagomi, Yoshiyuki, to Hitachi, Ltd. Gate circuit for electronic musical instruments. 3,656,008, 4-11-72, Cl. 307-268.
 Nakaguchi, Glenn M.: *See—*
 Wang, Ting-L.; and Nakaguchi, Glenn M., 3,699,131.
 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, to Sumitomo Chemical Company, Ltd. Alternating copolymers of unsaturated halogenated hydrocarbons and acrylonitrile or acrylic compound. 3,635,924, 1-18-72, Cl. 260-85.5.
 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; Yabuuchi, Hiroshi; and Takao, Hiroyoshi, to Sumitomo Chemical Company, Ltd. Alternating copolymers of conjugated compounds and unsaturated hydrocarbon compounds and process for production thereof. 3,677,753, 3-7-72, Cl. 260-63.
 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, to Sumitomo Chemical Company, Ltd. Alternating copolymers of alpha-olefins and vinyl compounds and a process for manufacturing the same. 3,647,771, 3-7-72, Cl. 260-86.7.
 Nakaguchi, Kohei; Nishikida, Tomozumi; Kawasumi, Shohachi; Maemoto, Kenichi; Sano, Takezo; Fujii, Yoshikazu; Harada, Koichi; and Ueda, Keiichi, to Sumitomo Chemical Company, Ltd. Process for producing a homopolymer or copolymer of ethylene with novel catalyst. 3,669,945, 6-13-72, Cl. 260-85.30r.
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 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, to Sumitomo Chemical Company, Ltd. Alternating copolymers of alpha-olefins and acrylic compounds. 3,700,647, 10-24-72, Cl. 260-63.00r.
 Nakahara, Kazuyuki: *See—*
 Numata, Hide; and Nakahara, Kazuyuki, 3,687,363.
 Nakahara, Masakatsu: *See—*
 Sawagata, Shinichi; Nakahara, Masakatsu; and Tsuneta, Asahide, 3,643,121.
 Nakahara, Shigenobu: *See—*
 Yokoo, Makoto; Keshi, Akizo; Hashimoto, Norishige; and Nakahara, Shigenobu, 3,681,271.
 Nakahara, Shojiro; and Kurebayashi, Hidetoshi, to Mitsubishi Denki Kabushiki Kaisha. Microwave switch utilizing latched ferrimagnetic material in coupling aperture of waveguide coupler. 3,670,267, 6-13-72, Cl. 333-1.100.
 Nakahara, Takao: *See—*

- Ishimatsu, Kazuhiko; and Nakahara, Takao, 3,692,294.
 Nakahara, Teiji; and Yanobu, Hideo, to Murata Machinery, Ltd. Method of threading a two-for-one yarn twister. 3,636,698, 1-25-72, Cl. 57-156.
 Nakahara, Teruo: *See—*
 Matsui, Isao; Minamikawa, Yoshihisa; Katagiri, Shinjiro; and Nakahara, Teruo, 3,691,377.
 Nakahara, Tsuneo; Kurauchi, Noritaka; and Kitani, Hiroshi, to Sumitomo Electric Industries, Ltd. Circular leaky waveguide train communication system. 3,648,172, 3-7-72, Cl. 325-51.
 Nakahara, Tsuneo; Kurauchi, Noritaka; Kitani, Hiroshi; and Takemura, Kenji, to Sumitomo Electric Industries, Ltd. Moving object communication systems. 3,659,094, 4-25-72, Cl. 246-1.
 Nakahara, Tsuneo; and Yoshida, Kenichi, to Sumitomo Electric Industries, Ltd. Leakage waveguide line from which energy is continually leaked along the path followed by the leakage waveguide time. 3,691,463, 9-12-72, Cl. 325-1.000.
 Nakahara, Yasuji: *See—*
 Suzuki, Isamu; Ichikawa, Kiyoshi; Nakahara, Yasuji; and Kondo, Kunio, 3,645,976.
 Nakahara, Yasuji; Ohmura, Jukichi; and Horinaka, Ryoji, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for preparing stable polyurethane solutions. 3,666,708, 5-30-72, Cl. 260-32.6.
 Nakahara, Yasuji; Ichikawa, Kiyoshi; and Kondo, Kunio, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for producing a polyurethane solution. 3,694,396, 9-26-72, Cl. 260-30.80d.
 Nakahara, Yoshiteru: *See—*
 Takaichi, Moriyo; Hamachi, Naotoshi; Iwatuka, Gakuo; and Nakahara, Yoshiteru, 3,645,386.
 Nakahata, Masatake; and Sugi, Tatsuo, to Tokyo Seimitsu Co., Ltd. Indicator provided with a plurality of concentric indicating needles. 3,698,353, 10-17-72, Cl. 116-129.00a.
 Nakai, Kaichi: *See—*
 Keshi, Akizo; Yoshii, Kunio; Yokoo, Makoto; and Nakai, Kaichi, 3,703,484.
 Nakai, Miyoji: *See—*
 Mori, Kazuhiro; Nakamura, Abio; Nakai, Miyoji; and Komisako, Tetuji, 3,670,548.
 Nakai, Shinji: *See—*
 Itaya, Nobushige; Kamoshita, Katsuzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Nakai, Shinji; Kameda, Nobuyuki; Fujimoto, Keimei; and Okuno, Yositosi, 3,666,789.
 Itaya, Nobushige; Kamoshita, Katsuzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Nakai, Shinji; Kameda, Nobuyuki; Fujimoto, Keimei; and Okuno, Yositosi, 3,669,989.
 Mine, Akihiko; Satomi, Takeo; Hino, Naganori; Kamoshita, Katsuzo; Suzuki, Yoshitsugu; and Nakai, Shinji, 3,644,422.
 Mine, Akihiko; Kamoshita, Katsuzo; Hino, Naganori; and Nakai, Shinji, 3,702,862.
 Nakai, Shoji; and Higuchi, Akio, to Kabushiki Kaisha Kamitsu Seisakusho. Detection arrangement of winding speed on a take-up winder. 3,672,589, 6-27-72, Cl. 242-45.000.
 Nakai, Susumu: *See—*
 Tachibana, Sachihiko; Nakai, Susumu; Makino, Yoichi; Matsumura, Hisashi; Tabuchi, Kimitaka; Hiraoka, Michio; Akoh, Shigeichi; and Orito, Hiroshi, 3,644,078.
 Nakai, Taiichiro; Sakaki, Hiroshi; Sato, Masanori; and Yuguchi, Hiroshi, to Kokusai Denshin Denwa Kabushiki Kaisha. System for measuring the loss or gain coefficient of a transmission medium. 3,646,432, 2-29-72, Cl. 324-57.
 Nakai, Tetsuzo: *See—*
 Suenaga, Masanobu; Machii, Tetsuo; Sawano, Takahiro; Kobayashi, Takehiko; Dengo, Tadao; and Nakai, Tetsuzo, 3,648,121.
 Nakai, Toshio: *See—*
 Hishida, Yukio; Nakai, Toshio; and Kuzuya, Susumu, 3,706,366.
 Nakai, Tuneso; Ando, Akira; Minehisa, Setuzi; Kaneko, Shunsuke; Siraki, Yosinori; Inui, Tatuo; Nakajima, Hiroyuki; and Tominaga, Naotugu, to Hitachi Shipbuilding and Engineering Co., Ltd. Method and device for welding high tensile strength steel of higher strength. 3,660,629, 5-2-72, Cl. 219-73.
 Nakajima, Akira; and Suzuki, Hiroshi, to American Cyanamid Company. Flame-proof fibers. 3,697,218, 10-10-72, Cl. 8-115.500.
 Nakajima, Eizo: *See—*
 Katsuyama, Shigeo; Asami, Atsumi; Watanabe, Masahide; Sato, Tsutomu; Norimatsu, Toshiaki; and Nakajima, Eizo, 3,672,819.
 Nakajima, Fumio: *See—*
 Hisada, Takeo; Nakajima, Fumio; Nishi, Takeshi; and Sugiyama, Kunro, 3,680,579.
 Nikaido, Akira; Onda, Mitsuo; Nakajima, Fumio; Machida, Takayasu; and Sudo, Shunji, 3,668,488.
 Nakajima, Fumito: *See—*
 Kawamura, Seiichi; Arano, Isamu; and Nakajima, Fumito, 3,660,626.
 Nakajima, Hajime: *See—*
 Kondo, Tatsuo; Nakajima, Hajime; and Nagasaki, Ryukichi, 3,669,759.
 Nakajima, Hayato: *See—*
 Takehisa, Masaaki; Kawakami, Waichiro; Nakajima, Hayato; and Hosaki, Yoshihiko, 3,646,950.
 Takehisa, Masaaki; Senrui, Shiro; and Nakajima, Hayato, 3,676,419.
 Nakajima, Hitoshi: *See—*
 Kominami, Naoya; Nakajima, Hitoshi; Tamura, Nobuhiro; and Ohki, Kusuo, 3,634,496.
 Nakajima, Jun: *See—*
 Doi, Kazuo; Nakajima, Jun; Takahashi, Hisamitsu; and Tomokawa, Hideo, 3,669,699.
 Nakajima, Junichi: *See—*
 Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Araki, Kazumi, 3,642,579.
 Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Nakanishi, Toru, 3,684,655.
 Noguchi, Yuichi; Nakajima, Junichi; and Araki, Kazumi, 3,689,360.
 Nakajima, Junichi; Araki, Kazumi; and Morinaga, Kenzo, to Kyowa Hakko Kogyo Kabushiki Kaisha. Process for preparing L-histidine. 3,676,301, 7-11-72, Cl. 195-29.000.
 Nakajima, Kasuhiko: *See—*
 Naito, Nobuatsu; Nakajima, Kasuhiko; and Watanabe, Yoshio, 3,638,874.
 Nakajima, Kazunari. Crampons. 3,691,659, 9-19-72, Cl. 36-7.600.
 Nakajima, Kazuo, to Kabushiki Kaisha Yaskawa Denki Seisakusho. Speed control for D.C. motor. 3,694,720, 9-26-72, Cl. 318-308.000.
 Nakajima, Masaki; Hosogane, Tadayuki; Kobayashi, Shoichi; and Ishihara, Shigenobu, to Showa Denko Kabushiki Kaisha. Transparent thermoplastic resin having high impact strength. 3,644,579, 2-22-72, Cl. 260-876.
 Nakajima, Meiken; and Nakagawa, Yunosuke, to Kao Soap Co., Ltd. Liquid abrasive cleanser composition. 3,677,954, 7-18-72, Cl. 252-121.000.
 Nakajima, Rokuro: *See—*
 Tabata, Hisanobu; Tabata, Norimasa; and Nakajima, Rokuro, 3,676,067.
 Nakajima, Sataro: *See—*
 Ishihara, Toshio; Okazaki, Takayoshi; Endo, Tetsuzo; Koichi, Tanizawa; and Nakajima, Sataro, 3,653,826.
 Nakajima, Satoshi: *See—*
 Morita, Kazuyuki; and Nakajima, Satoshi, 3,635,367.
 Nakajima, Shigeru: *See—*
 Shimosaka, Yukio; Ueda, Sumimichi; and Nakajima, Shigeru, 3,658,767.
 Nakajima, Tohru; Tashiro, Susumu; Tsukatani, Kenmi; and Mori, Koichi, to Asahi Optical Company, Ltd. and Fujitsu Limited. Photographic printing apparatus. 3,645,180, 2-29-72, Cl. 95-4.5.
 Nakajima, Tomio: *See—*
 Sato, Shui; Nakajima, Tomio; Shono, Masayuki; and Kagami, Teruo, 3,663,209.
 Sato, Shui; Nakajima, Tomio; Nakano, Masashi; and Sugita, Sadao, 3,694,211.
 Sato, Shui; Sugita, Sadao; Nakajima, Tomio; and Kasai, Keiji, 3,698,907.
 Nakajima, Toru: *See—*
 Mori, Chiharu; and Nakajima, Toru, 3,670,637.
 Nakajima, Toshihiko; and Yumde, Yasufumi, to Hitachi, Ltd. Filter for image pickup in surface-sequential color television. 3,685,886, 8-22-72, Cl. 350-315.000.
 Nakajima, Toshihiro: *See—*
 Sennari, Mutsuo; and Nakajima, Toshihiro, 3,670,053.
 Nakajima, Tositaka; Okubo, Tomoyuki; Kobayashi, Manabu; and Yoshioka, Kimio, to Fuji Denki Seizo Kabushiki Kaisha. Automatic voltage regulating system for a DC load. 3,663,943, 5-16-72, Cl. 321-18.
 Nakajima, Tutomu; and Shyaku, Tadasi, to Asahi Fancy Flywood Co., Ltd. Method of making decorative wood panels. 3,690,976, 9-12-72, Cl. 156-90.000.
 Nakajima, Yasuo: *See—*
 Aono, Shigeo; Manaka, Nobuzi; Inagaki, Tokuchi; Nakajima, Yasuo; and Etoh, Yukihiko, 3,673,989.
 Nakajima, Yasuo; Hayashi, Yoshimasa; and Sugihara, Kunihiko, to Nissan Motor Company, Limited. Valve timing system of automotive internal combustion engine. 3,633,554, 1-11-72, Cl. 123-90.18.
 Nakajima, Yasuo; and Hayashi, Yoshimasa, to Nissan Motor Company, Limited. Vehicular air-pollution preventive system. 3,636,934, 1-25-72, Cl. 123-119.
 Nakajima, Yasuo; and Hayashi, Yoshimasa, to Nissan Motor Company, Limited. Air-pollution preventive system for motor vehicles. 3,646,764, 3-7-72, Cl. 60-279.
 Nakajima, Yasuo; Hayashi, Yoshimasa; and Nagumo, Sin-Ichi, to Nissan Motor Company, Limited. Exhaust gas fater-burning system. 3,670,496, 6-20-72, Cl. 60-29.00a.
 Nakajima, Yasuo; Hayashi, Yoshimasa; and Sugihara, Kunihiko, to Nissan Motor Company, Limited. Air-pollution preventive system for motor vehicles. 3,673,993, 7-4-72, Cl. 123-119.00a.
 Nakajima, Yasuo, to Nissan Motor Company Limited. Intake manifold vacuum control system. 3,675,632, 7-11-72, Cl. 123-97.00b.

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- Nakajima, Yasutaka: *See—*
- Sasaki, Toshiharu; Miyano, Ryuzo; and Nakajima, Yasutaka, 3,639,052.
- Yamaguchi, Isao; Sasaki, Toshiharu; and Nakajima, Yasutaka, 3,683,852.
- Nakajima, Yoshio: *See—*
- Hori, Toshio; Hotta, Junichi; Kiyoshi, Mabuchi; and Nakajima, Yoshio, 3,634,377.
- Nakajima, Yosuke: *See—*
- Ushimaru, Yoshuke; Nakajima, Yosuke; Sugiyama, Mitsunori; Nishio, Fumihiko; and Kobayashi, Shigeru, 3,656,955.
- Nakajo, Shogo; and Saito, Yoshitami, to Luray Co., Ltd. Process for preparation of leather-like sheet material with excellent lastability. 3,645,776, 2-29-72, Cl. 117-64.
- Nakajo, Toshihiro, to Unic Corporation. Device for actuating a swingable boom. 3,662,907, 5-16-72, Cl. 214-77.
- Nakajyo, Teruo: *See—*
- Ozutsu, Minoru; Maeda, Shigeo; and Nakajyo, Teruo, 3,706,725.
- Nakakawa, Masahiro: *See—*
- Kusunoki, Kaneyoshi; Asakura, Tatsumi; Nakakawa, Masahiro; Komatsu, Noboru; and Arai, Tohru, 3,680,626.
- Nakakita Seisakusho Company Limited: *See—*
- Kosugi, Takeshi; and Kunimitsu, Toshio, 3,664,358.
- Nakakoshi, Senkichi: *See—*
- Nakakoshi, Yoshio; and Nakakoshi, Senkichi, 3,635,624.
- Nakakoshi, Yoshio; and Nakakoshi, Senkichi. Blow-moulding apparatus. 3,635,624, 1-18-72, Cl. 425-133.
- Nakakura, Kenji: *See—*
- Fujimoto, Hiroji; and Nakakura, Kenji, 3,639,714.
- Nishikawa, Kikuyoshi; Nakamura, Tadahisa; and Nakakura, Kenji, 3,694,598.
- Nakama, Katuhiko; and Agatahama, Shunichi. Electrical timing device. 3,693,119, 9-19-72, Cl. 335-59.000.
- Nakamachi, Hideo; Kamiya, Kazuhide; Nishikawa, Masao; and Fujii, Shoichiro, to Takeda Chemical Industries, Ltd. Crystalline cytidine-5'-diphosphate choline monohydrate and production thereof. 3,687,932, 8-29-72, Cl. 260-211.50r.
- Nakamaye, Kay L.; Slauch, Lynn H.; Spooner, William W.; and Volger, Hendrik C., to Shell Oil Company. Ethylene telomerization. 3,641,170, 2-8-72, Cl. 260-658.
- Nakamichi, Niro, to Nakamichi Research Incorporated. Tape guide device of a tape recorder. 3,690,535, 9-12-72, Cl. 226-190.000.
- Nakamichi Research Incorporated: *See—*
- Nakamichi, Niro, 3,690,535.
- Nakamori, Shigeru: *See—*
- Shio, Isamu; Sano, Konosuke; and Nakamori, Shigeru, 3,707,441.
- Nakamura, Abio: *See—*
- Mori, Kazuhiro; Nakamura, Abio; Nakai, Miyoji; and Komisako, Tetuji, 3,670,548.
- Nakamura, Akihito; Ito, Iko; and Goto, Mutuo, to Sumitomo Chemical Company, Ltd. Method for producing polyvinyl-chloride particles. 3,652,525, 3-28-72, Cl. 260-92.8.
- Nakamura, Akira: *See—*
- Arai, Hiroshi; Nakamura, Akira; Okamoto, Atutoshi; Okumura, Shunji; Suzuki, Motoyoshi; and Sugiura, Akio, 3,690,735.
- Arai, Hiroshi; Nakamura, Akira; Okamoto, Atutoshi; and Okumura, Shunji, 3,701,569.
- Arai, Hiroshi; Nakamura, Akira; Okamoto, Atutoshi; and Okumura, Shunji, 3,702,205.
- Nakamura, Eiichi: *See—*
- Fudemoto, Isao; Tomimori, Kiyoshi; Nakamura, Eiichi; and Kimura, Yutaka, 3,646,269.
- Higashimura, Einosuke; and Nakamura, Eiichi, 3,651,002.
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- Nakamura, Hajime, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Electrode holder for continuous submerged self-arc welding. 3,652,822, 3-28-72, Cl. 219-130.
- Nakamura, Hiroshi: *See—*
- Morita, Shichiro; Shimazu, Hiroshi; Saito, Tsutomu; Nakamura, Hiroshi; and Maeda, Torata, 3,647,149.
- Nakamura, Hiroto; Doi, Ken-Ichi; Sato, Akira; and Suzuki, Yushin, to Matsushita Electronics Corporation. Shadow mask support means for a color television image tube. 3,660,708, 5-2-72, Cl. 313-85.
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- Nakamura, Hiroyasu: *See—*
- Goto, Kimio; and Nakamura, Hiroyasu, 3,647,975.
- Nakamura, Isao; and Matsuzaki, Hiroshi, to Tokyo Shibaura Electric Co., Ltd. Duplex interphone. 3,705,412, 12-5-72, Cl. 179-37.000.
- Nakamura, Itaru: *See—*
- Yanagi, Masana; Nakamura, Itaru; Ohosugi, Masayuki; Takizawa, Kiyos; Kakinami, Masanori; and Sano, Chikara, 3,658,634.
- Nakamura, Katsuyuki: *See—*
- Izawa, Shin-Ichi; Nakamura, Katsuyuki; and Mizoguchi, Yoshiyuki, 3,670,033.
- Nakamura, Katsuyuki; Tanabe, Masanori; Mizoguchi, Yoshiyuki; and Fukuda, Hirohisa, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for preparing cyclododecatriene. 3,636,174, 1-18-72, Cl. 260-666.
- Nakamura, Kazuchika: *See—*
- Katagiri, Keizo; Kuroishi, Kenji; Nakamura, Kazuchika; and Hagiwara, Katsutoshi, 3,661,671.
- Nakamura, Keiichi: *See—*
- Kanou, Kimio; and Nakamura, Keiichi, 3,681,582.
- Wada, Ryuzi; Nakamura, Keiichi; and Kanou, Kimio, 3,698,138.
- Nakamura, Keiji: *See—*
- Kaneko, Hidehiko; Aritomi, Jiro; and Nakamura, Keiji, 3,700,680.
- Umemoto, Susumu; Nagai, Yasutaka; and Nakamura, Keiji, 3,637,704.
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- Aizawa, Susumu; Nakamura, Koichi; Tsuruishi, Yuki; and Oguchi, Kikuo, 3,648,453.
- Nakamura, Kuniyasu: *See—*
- Komada, Hiroshi; and Nakamura, Kuniyasu, 3,660,548.
- Nakamura, Makoto: *See—*
- Oda, Teishiro; and Nakamura, Makoto, 3,650,845.
- Oda, Teishiro; Nakamura, Makoto; and Szma, Masato, 3,661,658.
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- Kometani, Yutaka; Tatamoto, Masayoshi; and Nakamura, Masanori, 3,671,510.
- Nakamura, Masaru: *See—*
- Sato, Katsumi; Nakamura, Takashi; Nakamura, Masaru; Hirasawa, Kazuo; Hamada, Mitsuo; Takahashi, Kenji; Yashima, Masaaki; Ozaki, Toshiaki; Yamamoto, Sigeo; Oishi, Tadashi; Fujinami, Akira; Horiuchi, Fukashi; and Nodera, Katsuji, 3,703,526.
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- Nakamura, Masaya, to Kabushiki Kaisha Nakamura Seisakusho. Game machine. 3,690,657, 9-12-72, Cl. 273-1.00e.
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- Akashi, Goro; Suzuki, Osamu; and Nakamura, Matsuaki, 3,676,217.
- Nakamura, Michiei: *See—*
- Horiguchi, Shojiro; and Nakamura, Michiei, 3,637,581.
- Horiguchi, Shojiro; and Nakamura, Michiei, 3,640,983.
- Tera, Shiro; Suzuki, Toshio; Hasegawa, Yoshihumi; Horiguchi, Shojiro; Nakamura, Michiei; Kimata, Shizuo; and Suzuki, Tadanobu, 3,671,476.
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- Tanaka, Masao; Nakamura, Nobuo; and Takasawa, Seigo, 3,647,627.
- Nakamura, Nobutaka: *See—*
- Tohma, Wataru; Murata, Takao; Nakamura, Nobutaka; and Kudo, Atsushi, 3,696,622.
- Nakamura, Norio: *See—*
- Iwai, Isseu; Kishida, Yukichi; Hirooka, Tetsuo; and Nakamura, Norio, 3,687,968.
- Nakamura, Ryoji: *See—*
- Umeda, Shinobu; Miyagawa, Yoshiaki; Tanaka, Yutaka; Tanaka, Yukio; and Nakamura, Ryoji, 3,703,818.
- Nakamura, Seiichi: *See—*
- Ito, Hiroo; Nakamura, Seiichi; and Inoue, Hidemu, 3,640,902.
- Nakamura, Shigeaki: *See—*

- Nakamura, Tadao; Nakamura, Shigeaki; and Kohashi, Tadao, 3,648,052.
- Nakamura, Tadao; Nakamura, Shigeaki; and Kohashi, Tadao, 3,666,450.
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- Kameoka, Akio; Nakamura, Shinichi; Makino, Shinichi; Endoh, Kenjiro; and Kuriyagawa, Mamoru, 3,668,294.
- Sakamoto, Kenro; Fushiki, Isamu; and Nakamura, Shinichi, 3,637,393.
- Nakamura, Shiro: *See—*
- Hara, Kazuo; Samoto, Mistunobu; Sawai, Masanobu; and Nakamura, Shiro, 3,704,168.
- Nakamura, Shizuo; and Ito, Masanobu, to Sagami Chemical Research Center. Simultaneous preparation of carbonyl sulfide and ammonium thiocyanate. 3,652,203, 3-28-72, Cl. 23-75.
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- Nishikawa, Kikuyoshi; Nakamura, Tadahisa; and Nakakura, Kenji, 3,694,598.
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- Nakamura, Shigeaki; Nakamura, Tadao; and Kohashi, Tadao, 3,703,594.
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- Tanaka, Shigeaki; Tamanaka, Yoshimasa; and Nakamura, Tadahisa, 3,651,361.
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- Nakamura, Takahiro: *See—*
- Taniguchi, Hiroshi; Nakamura, Takahiro; and Sakumoto, Hideki, 3,673,414.
- Yano, Osahiko; Nakamura, Takahiro; and Masahiro, Yao, 3,662,098.
- Yano, Osahiko; Nakamura, Takahiro; and Yabu, Toshiomi, 3,665,098.
- Yano, Osahiko; Nakamura, Takahiro; and Deguchi, Masahiro, 3,666,883.
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- Nakamura, Takeaki: *See—*
- Motoyama, Kazuyasu; Sawaki, Ryoichi; and Nakamura, Takeaki, 3,696,217.
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- Nakae, Nobuhiro; and Nakamura, Toru, 3,704,050.
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- Nakao, Osakazu; Nakagawa, Saburo; Hirose, Juichi; Yamazaki, Shigeyuki; Amano, Takashi; Nakamura, Toshio; and Yamamoto, Hiroyuki, 3,658,735.
- Nakao, Osakazu; Nakagawa, Saburo; Hirose, Juichi; Yamazaki, Shigeyuki; Amano, Takashi; Nakamura, Toshio; and Yamamoto, Hiroyuki, 3,669,916.
- Sato, Nobuyasu; Nakamura, Toshio; and Takenaka, Hiroshi, 3,669,987.
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- Nakamura, Yashiharu: *See—*
- Nakazawa, Yoshiyuki; Sueyoshi, Tohru; Sato, Akira; and Nakamura, Yashiharu, 3,706,570.
- Nakamura, Yashuharu: *See—*
- Nakazawa, Giyoshiyuki; Nakamura, Yashuharu; Takei, Haruo; Sato, Akira; and Ikeda, Tadashi, 3,705,809.
- Nakamura, Yashuharu: *See—*
- Nadazawa, Yoshiyuki; Nakamura, Yashuharu; Takei, Haruo; Sato, Akira; and Ikeda, Tadashi, 3,677,765.
- Nakazawa, Yoshiyuki; Nakamura, Yashuharu; Haruo, Takei; Sato, Akira; and Ikeda, Tadashi, 3,681,080.
- Sakaguchi, Yoshikata; Sakai, Masakado; Ohki, Masanaga; Nakamura, Yashuharu; Tsubota, Motohiko; and Sato, Akira, 3,694,217.
- Nakamura, Yasuharu: *See—*
- Kimura, Shiro; Nakazawa, Yoshiyuki; Sato, Akira; and Nakamura, Yasuharu, 3,656,959.
- Nakamura, Yasuo: *See—*
- Sadakata, Kazuo; Sasaki, Minoru; Hirose, Masahiro; Nakamura, Yasuo; Mikida, Yukio; Ito, Kazuo; and Kimura, Kuninobu, 3,639,513.
- Yamada, Keisho; Nagai, Shigeaki; Odan, Kyoji; Nakamura, Yasuo; and Hidaka, Mikio, 3,636,066.
- Yamada, Keisho; Nagai, Shigeaki; Odan, Kyoji; Nakamura, Yasuo; and Hidaka, Mikio, 3,641,100.
- Nakamura, Yasushi; Agatsuma, Kunio; Tanaka, Yoshihiro; and Aono, Shunji, to Sumitomo Chemical Company, Ltd. Phenoxy carboxylic acid derivatives. 3,658,829, 4-25-72, Cl. 260-304.
- Nakamura, Yasusi: *See—*
- Ueda, Tadao; Sato, Kenji; and Nakamura, Yasusi, 3,674,426.
- Nakamura, Yoshiharu: *See—*
- Maeda, Yo; Suzuki, Satoshi; Nakamura, Yoshiharu; Masubuchi, Yorimitu; Ueyama, Tamotsu; Fukutomi, Naoki; and Takahashi, Hiroshi, 3,646,670.
- Nakamura, Yoshimi: *See—*
- Yoshino, Takachika; Saito, Shigeru; Sasaki, Yutaka; and Nakamura, Yoshimi, 3,657,155.
- Yoshino, Takachika; Saito, Shigeru; Sasaki, Yutaka; and Nakamura, Yoshimi, 3,686,138.
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- Nakamura, Yuko: *See—*
- Misato, Tomomasa; Huang, Keng Tang; Shirato, Shiroh; Seino, Akio; Nakamura, Yuko; Aizawa, Shojiro; and Taguchi, Ryusuke, 3,657,422.
- Nakamura, Masaji; Tsukui, Michio; Mukai, Junji; Narahara, Toshikazu; and Noguchi, Sumio, to Hitachi, Ltd. and Hitachi Chemical Company, Ltd. Polyester resin and method of manufacturing same. 3,705,208, 12-5-72, Cl. 260-861.000.
- Nakane, Hiroshi, to Kabushiki Kaisha Doboku Sokki Senta. Accelerometers. 3,657,929, 4-25-72, Cl. 73-517.
- Nakane, Hisao: *See—*
- Sugiyama, Takashi; Kurata, Satoshi; and Nakane, Hisao, 3,652,930.
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- Nakanishi, Hiroshi, to Manzen Co., Ltd. Method in tailoring of preventing one side of cloth folded back from being unfolded. 3,649,399, 3-14-72, Cl. 156-93.
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- Nakanishi, Michio; and Tashiro, Chiaki, to Yoshitomi Pharmaceutical Industries, Ltd. Dibenzazepine derivatives. 3,637,713, 1-25-72, Cl. 260-293.

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- Nakanishi, Michio; Tahara, Tetsuya; Imamura, Hiroshi; and Maruyama, Yutaka, to Yoshitomi Pharmaceutical Industries, Ltd. Certain 2-amino-3,6-bis lower-alkoxy carbonyl 4,5,6,7-tetrahydro [2,3-c] pyridines. 3,655,681, 4-11-72, Cl. 260-294.8.
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- Nakanishi, Susumu: See—
O'Shea, Daniel P.; and Nakanishi, Susumu, 3,676,427.
- Nakanishi, Susumu, to Pfizer Inc. Acylation of 6-aminopenicillanic acid and 7-aminocephalosporanic acid. 3,651,050, 3-21-72, Cl. 260-239.1.
- Nakanishi, Teruo: See—
Ikemoto, Masahiko; Ito, Kiyoshi; Kimura, Kazuhiko; and Nakanishi, Teruo, 3,662,036.
- Nakanishi, Toru: See—
Fukada, Shunsuke; and Nakanishi, Toru, 3,707,593.
Noguchi, Yuichi; Nakanishi, Toru; and Taketugu, Yasuyuki, 3,650,899.
Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Nakanishi, Toru, 3,684,655.
- Nakanishi, Tsunemoto: See—
Suzuki, Akira; Esashi, Yoshiaki; and Nakanishi, Tsunemoto, 3,687,397.
- Nakanishi, Tsuneo: See—
Kajiura, Toshiyuki; Nakanishi, Tsuneo; and Sato, Tatsuhito, 3,635,417.
Yasuda, Tetutaru; and Nakanishi, Tsuneo, 3,638,523.
- Nakaniwa, Yui: See—
Ataka, Takeshi; Tenkumo, Shohei; Sekita, Minoru; and Nakaniwa, Yui, 3,635,142.
- Nakano, Goro: See—
Uchiyumi, Tatsuro; and Nakano, Goro, 3,692,194.
- Nakano, Hiroshi: See—
Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.
- Nakano, Kinichi: See—
Uzu, Keizo; Nakano, Kinichi; and Takahashi, Toshinaka, 3,641,053.
Uzu, Keizo; Nakano, Kinichi; and Takahashi, Toshinaka, 3,644,400.
Uzu, Keizo; Nakano, Kinichi; and Takahashi, Toshinaka, 3,658,794.
- Nakano, Koji: See—
Murakami, Masuo; Inukai, Noriyoshi; Koda, Akio; and Nakano, Koji, 3,700,719.
- Nakano, Mamoru; Kadowaki, Koji; Komura, Isao; Koshikawa, Takeo; and Oshida, Bunzi, to Mitsubishi Petrochemical Co., Ltd. Process for preparing unsaturated aldehydes and unsaturated carboxylic acids. 3,703,550, 11-21-72, Cl. 260-533.00n.
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Nishiyama, Akira; Fukui, Tooru; Takahashi, Satoshi; Takashima, Yui; Nakano, Masaaki; Izura, Yoshiteru; and Tanaka, Masaaki, 3,689,155.
- Nakano, Masashi: See—
Itano, Kohci; Nakano, Masashi; and Hashimoto, Mitsuru, 3,667,954.
Sato, Shui; Nakajima, Tomio; Nakano, Masashi; and Sugita, Sadao, 3,694,211.
- Nakano, Minoru; Tsutsumi, Takashi; and Kadota, Tokuzo, to Matsushita Electric Industrial Co., Ltd. Deflecting yoke. 3,634,796, 1-11-72, Cl. 335-210.
- Nakano, Satoru: See—
Ishibashi, Wataru; Nakano, Satoru; and Yokotani, Takeo, 3,698,362.
- Nakano, Satoru, to Iwatani & Co., Ltd. Incinerator for waste oil and the like. 3,671,167, 6-20-72, Cl. 431-190.000.
- Nakano, Satoshi: See—
Shibata, Hiroshi; Morita, Tomijiro; and Nakano, Satoshi, 3,653,819.
- Nakano, Sohta; Fujimoto, Kazumitsu; Otomo, Kazuhiro; Yokota, Toshiyuki; and Shindo, Hiroshi. Process for preparation of aggregated food products and composition therefor. 3,686,002, 8-22-72, Cl. 99-107.000.
- Nakano, Takuji: See—
Taniuchi, Akira; and Nakano, Takuji, 3,660,318.
- Nakano, Tatsumi: See—
Sato, Noboru; and Nakano, Tatsumi, 3,636,275.
- Nakano, Tatsumi, to Akai Electric Company Limited. Tape reeling mechanism on video tape recorder. 3,652,030, 3-28-72, Cl. 242-201.
- Nakano, Tomio: See—
Hotta, Seiji; Nakano, Tomio; Kenmochi, Hirohito; and Akamatsu, Takashi, 3,636,064.
- Nakano, Tooru: See—
Takeda, Isao; Iguchi, Takashi; Tsuzuki, Katsuaki; and Nakano, Tooru, 3,658,647.
Takeda, Isao; Iguchi, Takashi; and Nakano, Tooru, 3,674,640.
- Nakano, Yoshiaki: See—
Ando, Noriyoshi; Okamoto, Atutoshi; Taniguchi, Koichi; Nakano, Yoshiaki; and Toyama, Koichi, 3,652,132.
Okamoto, Atutoshi; Taniguchi, Koichi; Nakano, Yoshiaki; and Toyama, Koichi, 3,658,389.
- Nakano, Yoshinobu: See—
Doi, Kazuo; Murakami, Takeru; Kawamura, Hideo; Takaishi, Katsutoshi; and Nakano, Yoshinobu, 3,651,173.
- Nakanome, Iyoko; Takeya, Kenji; and Suzuki, Hiroshi, to American Cyanamid Company. Process for producing a vinylidene chloride containing acrylonitrile polymer solution. 3,632,543, 1-4-72, Cl. 260-29.6.
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Matsushima, Sanae; Tezuka, Tadashi; and Nakanowatari, Kameo, 3,689,633.
- Nakanuma, Sho: See—
Kamoshida, Mototaka; and Nakanuma, Sho, 3,639,813.
Nakagiri, Masaru; Onoda, Katsuhiko; Igarashi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tooru, 3,702,466.
Onoda, Katsuhiko; Igarashi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tooru, 3,651,490.
Wada, Toshio; Onoda, Katsuhiko; Igarashi, Ryo; Nakanuma, Sho; and Tsujide, Tooru, 3,646,527.
Wada, Toshio; and Nakanuma, Sho, 3,659,162.
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Okamoto, Atutoshi; Ando, Noriyoshi; Toyama, Koichi; Sumiyoshi, Masaharu; Nakao, Hisaji; and Watanabe, Hisashi, 3,635,531.
- Nakao, Isao: See—
Nara, Takasi; and Nakao, Isao, 3,662,934.
- Nakao, Minoru; and Yamamoto, Syozo, to Shikishima Spinning Co. Ltd. Air conditioning apparatus in vehicle. 3,651,659, 3-28-72, Cl. 62-239.
- Nakao, Mituru: See—
Miyama, Hajime; Harumiya, Noriho; Nakao, Mituru; Kimura, Mutsumi; Ito, Isao; and Ohgushi, Katunori, 3,682,800.
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Hara, Takeshi; Nakao, Shoichi; and Teranishi, Katsuya, 3,658,166.
Mizuno, Kaoru; Kitamura, Tetsuo; Nakao, Shoichi; Yasuda, Takehiko; Ueno, Akio; Yoshikawa, Kyunojo; Yuminaka, Takao; and Sakata, Kazuhiro, 3,662,905.
- Nakao, Suekiti: See—
Shikata, Kazuo; Nakao, Suekiti; and Knomi, Katsutoshi, 3,671,466.
- Nakao, Yoshiaki: See—
Arita, Yukio; Nakao, Yoshiaki; Iwai, Takashi; and Tagaya, Koozo, 3,633,419.
- Nakao, Yoshikadzu: See—
Matsushima, Hiroshi; Arimura, Ichiro; Goto, Hiroshi; and Nakao, Yoshikadzu, 3,643,151.
- Nakao, Yoshikazu: See—
Arimura, Ichiro; Goto, Hiroshi; Matsushima, Hiroshi; and Nakao, Yoshikazu, 3,663,863.
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Kashiwagi, Shinichi; Amano, Morio; and Nakasawa, Koichi, 3,653,706.
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Mitsugi, Koji; Nakase, Takashi; and Hasegawa, Yoshisuke, 3,677,898.
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Ito, Akihiko; Nakase, Yoshiaki; Kojima, Katsumi; Yoshida, Masaru; Iwai, Tadashi; Hayashi, Koichiro; and Okamura, Seizo, 3,677,922.
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Ando, Tsuneo; and Nakashima, Hironori, 3,648,481.
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Takahashi, Susumu; Nakashima, Hisao; and Migitaka, Masatoshi, 3,660,178.
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Mizuno, Hiroyuki; Nakashima, Shinichi; and Miyai, Yukio, 3,701,050.
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Hataya, Yukio; Kozu, Isao; and Nakashima, Yasutaka, 3,637,952.
- Kozu, Isao; and Nakashima, Yasutaka, 3,686,851.
- Nakashio, Seizo: See—
Hamada, Takaki; Nakashio, Seizo; Maruta, Isao; Hayatsu, Kazuo; Seto, Tetsuki; and Kono, Yoichi, 3,700,630.
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Kodama, Reijiro; Nakasui, Yugo; and Imanishi, Kosaku, 3,660,571.
- Nakata, Bruce T.: See—
Park, Joseph D.; and Nakata, Bruce T., 3,644,501.
- Nakata, Fusahide: See—
Nakata, Tozaburo, 3,671,616.
- Nakata, Hisao: See—
Shibata, Minoru; Yusa, Makoto; Nakata, Hisao; and Harada, Michisuke, 3,705,866.
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Okazaki, Kaoru; Tohyama, Shunroku; Nakata, Minoru; and Kishimoto, Kiyomi, 3,652,713.
- Nakata, Roy; and Oppel, John A., to General Electric Company. High voltage ceramic capacitor assembly. 3,670,222, 6-13-72, Cl. 317-261.000.
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Sugimoto, Yoichi; Nakata, Shizuhiro; Nakashima, Atsuo; and Idomoto, Souzo, 3,692,922.
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Nakao, Yukihiro; Takagi, Seishi; and Nakatani, Hiromi, 3,666,488.
- Nakatani, Hiroshi: See—
Fukumura, Masataka; Shimago, Kozo; Okano, Shigeru; Nakatani, Hiroshi; and Hesaka, Kenji, 3,666,756.
Takamura, Akira; Kunii, Kazushi; Seharada, Saburo; and Nakatani, Hiroshi, 3,669,222.
- Nakatani, Hisao: See—
Todaka, Hideto; and Nakatani, Hisao, 3,652,982.
- Nakatani, Keiji; and Takebe, Kaoru, to Minolta Camera Kabushiki Kaisha. Electrostatic contact printing device for use in a photographic contact printer. 3,677,640, 7-18-72, Cl. 355-78.000.
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Kudo, Tetsuo; Nakatani, Kozo; and Koda, Kiyoyasu, 3,679,387.
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Aoyama, Yoshio; Mikasa, Nobuyuki; and Nakatani, Shuuzo, 3,666,410.
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Wada, Ryuji; Suzuki, Hiroshi; and Nakato, Masuo, 3,669,514.
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Tamaru, Naokichi; and Nakauchi, Shunsaku, 3,657,583.
- Nakaue, Harry S.: See—
Welch, Dean E.; Nakaue, Harry S.; and Vatne, Robert D., 3,642,784.
- Nakaya, Akimichi: See—
Kodama, Hisashi; Sekigawa, Tsuneo; Hatut, Kazumi; and Nakaya, Akimichi, 3,702,538.
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Uchida, Kozo; Nakaya, Naohisa; and Suzuki, Koji, 3,633,066.

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- Tachikawa, Takuji; Ohgoshi, Akio; Yoshida, Susumu; Nakayama, Akira; and Ishii, Eiji, 3,638,063.
- Nakayama, Fumio: *See—*
- Tokitomo, Soichi; Honda, Masakazu; Nakayama, Fumio; and Ueno, Keisiro, 3,675,541.
- Nakayama, Junn; and Fukatsu, Yukio, to Asahi Glass Co., Ltd. Introducing nitrogen gas into the melt to improve fused cast refractories. 3,670,061, 6-13-72, Cl. 264-82.000.
- Nakayama, Keizo: *See—*
- Mitsui, Tsuneo; Nakayama, Keizo; Kobayashi, Tetsuo; and Okuda, Kenzo, 3,657,728.
- Nakayama, Kiyoshi: *See—*
- Hamamoto, Masao; Kamo, Seiichi; and Nakayama, Kiyoshi, 3,698,885.
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- Sato, Yasunobu; Kobayashi, Yutaka; Takagi, Hiromu; Kumakura, Seiji; Nakayama, Koichi; and Oshima, Takeshi, 3,663,570.
- Nakayama, Koyoshi; and Tanaka, Haruo, to Kyowa Hakko Kogyo Co., Ltd. Process for producing nicotinic acid mononucleotide. 3,650,898, 3-21-72, Cl. 195-28.
- Nakayama, Takashi: *See—*
- Bacher, Rudolph John; and Nakayama, Takashi, 3,683,245.
- Hoffman, Lewis C.; and Nakayama, Takashi, 3,666,505.
- Nakayama, Takeo. Massage tool. 3,645,257, 2-29-72, Cl. 128-60.
- Nakayama, Toshio: *See—*
- Matoba, Tamuro; and Nakayama, Toshio, 3,632,327.
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- Nakayama, Toshio, to Nippon Electric Glass Company Limited. Method for molding hollow and glass articles. 3,661,547, 5-9-72, Cl. 65-67.
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- Inoki, Kazuyoshi; and Nakayama, Yasuaki, 3,653,199.
- Nakayama, Yasuharu: *See—*
- Okamura, Seizo; Hayashi, Koichiro; and Nakayama, Yasuharu, 3,642,723.
- Nakayama, Yasuhiko, to Kabushiki Kaisha Yashica. Motion picture camera fade-out-in mechanism. 3,637,301, 1-25-72, Cl. 352-217.
- Nakayama, Yuji: *See—*
- Oishi, Masashi; Shimada, Michihiko; Nakayama, Yuji; Naito, Koichiro; and Okamoto, Kazuhiko, 3,669,645.
- Nakayama, Yujiro: *See—*
- Yamaguchi, Yasuji; and Nakayama, Yujiro, 3,704,161.
- Nakayama, Yuya: *See—*
- Umezawa, Hamao; Muraoka, Yasuhiko; and Nakayama, Yuya, 3,646,197.
- Nakazato, Hiroshi; Yokoyama, Masayoshi; Nagano, Toshihiro; and Kaneda, Kazuyoshi, to Riken Denko Kogyo Co., Ltd. Electrolytic bath to be used for electrolytically anodizing aluminum or aluminum alloy to form a colored oxide coating and method for anodizing said metal. 3,634,214, 1-11-72, Cl. 204-58.
- Nakazato, Katsuo: *See—*
- Konno, Tsuyoshi; Nakazato, Katsuo; and Ise, Satoshi, 3,670,182.
- Nakazato, Kunio: *See—*
- Nomura, Kazuhumi; Nakazato, Kunio; and Matsui, Hideki, 3,647,374.
- Nakazawa, Giyoshiyuki; Nakamura, Yashuharu; Takei, Haruo; Sato, Akira; and Ikeda, Tadashi, to Fuji Photo Film Co. Ltd. Silver halide supersensitized photographic emulsion. 3,705,809, 12-12-72, Cl. 96-124.000.
- Nakazawa, Junichi: *See—*
- Kishida, Yukichi; Soma, Nobuo; Nakazawa, Junichi; Sato, Yoshio; Matsuda, Hidebumi; Terada, Atsuke; Watanabe, Taiichiro; Sugimura, Yukio; Miyamura, Toshihide; Kaneko, Masanao; and Watatani, Mitsuo, 3,704,294.
- Soma, Nobuo; Watatani, Mitsuo; Nakazawa, Junichi; Sato, Yoshio; Kuwabara, Yoshimi; and Ishikawa, Hidehiko, 3,700,682.
- Nakazawa, Kazuo: *See—*
- Murashige, Hidekichi; Simakura, Masao; and Nakazawa, Kazuo, 3,673,754.
- Nakazawa, Koiti; Shibata, Motoo; Higashide, Eiji; Kanzaki, Toshihiko; Yamamoto, Hiroichi; Miyake, Akira; Ueyanagi, Jisaburo; and Iwasaki, Hidesuke, to Takeda Chemical Industries, Ltd. Rufomycin. 3,655,879, 4-11-72, Cl. 424-122.
- Nakazawa, Nobuhiko: *See—*
- Oshima, Yasuo; Nakazawa, Nobuhiko; Nagasaki, Senkichi; Naito, Takeo; Osada, Yasuaki; Okusa, Naoya; Inuaki, Akira; and Tanaka, Kazuyuki, 3,705,989.
- Nakazawa, Shozo; and Ikeda, Osamu, to Daiichi Seiyaku Company Limited. Antibacterial composition. 3,705,243, 12-5-72, Cl. 424-250.000.
- Nakazawa, Tsuneyuki: *See—*
- Yamamoto, Masaaki; and Nakazawa, Tsuneyuki, 3,707,531.
- Nakazawa, Yosh, & Associates, Inc.: *See—*
- Nakazawa, Yoshio; and Lipper, Harold A., 3,640,036.
- Nakazawa, Yoshio; and Lipper, Harold A., to Nakazawa, Yosh, & Associates, Inc. Architectural system of interior modular construction. 3,640,036, 2-8-72, Cl. 52-126.
- Nakazawa, Yoshiyuki: *See—*
- Kimura, Shiro; Nakazawa, Yoshiyuki; Sato, Akira; and Nakamura, Yasuharu, 3,656,959.
- Nakazawa, Yoshiyuki; Nakamura, Yasuharu; Haruo, Takei; Sato, Akira; and Ikeda, Tadashi, to Fuji Photo Film Co., Ltd. Silver halide photographic emulsion. 3,681,080, 8-1-72, Cl. 96-124.000.
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- Nakazima, Hiroyuki: *See—*
- Nakai, Tuncu; Ando, Akira; Minehisa, Setuzi; Kaneko, Shunsuke; Siraki, Yosinori; Inui, Tatuo; Nakazima, Hiroyuki; and Tominaga, Naotugu, 3,660,629.
- Nakazima, Jun: *See—*
- Morikawa, Kazumasa; Kobayashi, Makoto; Sato, Hiromitsu; and Nakazima, Jun, 3,698,652.
- Nakazona, Kiroshi: *See—*
- Ueshima, Kumao; Fukada, Kenzo; Yoshinaga, Masakazu; and Nakazona, Kiroshi, 3,701,516.
- Nakazyo, Kiyoshi: *See—*
- Yoshida, Makoto; Tsuda, Momotoshi; Oishi, Yasushi; and Nakazyo, Kiyoshi, 3,685,995.
- Nakazyoo, Kiyoshi: *See—*
- Sano, Kazuya; Yokota, Yukio; Oishi, Yasushi; and Nakazyoo, Kiyoshi, 3,649,276.
- Nakcn, M. I. Company: *See—*
- Spier, Jerome B., 3,677,400.
- Nakuta, Shoichiro: *See—*
- Yanagi, Akio; and Nakuta, Shoichiro, 3,652,168.
- Nalbach, John C., to Nalbach, John R., Engineering Co., Inc. Article-orienting apparatus. 3,650,368, 3-21-72, Cl. 198-33.
- Nalbach, John C., to Colgate-Palmolive Company. Apparatus for orienting and feeding articles. 3,662,872, 5-16-72, Cl. 198-33.
- Nalbach, John R., Engineering Co., Inc.: *See—*
- Nalbach, John C., 3,650,368.
- Nalbandian, Robert M.: *See—*
- Hymes, Alan C.; Margulis, Rajko R.; and Nalbandian, Robert M., 3,641,240.
- Nalco Chemical Company: *See—*
- Aitken, Thomas; Anderson, Donald R.; and Jursich, Myron J., 3,674,725.
- Albrecht, William L., 3,673,104.
- Braithwaite, David G., 3,697,446.
- Cocks, Thomas G., 3,666,531.
- Domba, Elemer, 3,666,538.
- Domba, Elemer, 3,681,266.
- Domba, Elemer, 3,692,747.
- Domba, Elemer; and Krolkiewicz, Thaddeus A., 3,696,081.
- Domba, Elemer, 3,700,844.
- Elo, Arpad, Jr.; and Broersma, Frank R., 3,676,063.
- Frisque, Alvin J.; and Bernot, Robert, 3,644,305.
- Gilson, Ian T.; Troscinski, Edwin S.; Curtis, Thomas C.; and Watson, Robert G., 3,687,610.

- Hyde, James A., 3,700,587.
- Johnson, Carl E., 3,692,475.
- Jursich, Myron J.; and Ciesla, Stanley F., 3,640,766.
- Kekish, George T.; James, William G.; and Simons, Duane J., 3,640,933.
- Kemmer, Frank N.; Robertson, Reed S.; and Mattix, Rodney, 3,637,487.
- Kemmer, Frank N.; Robertson, Reid S.; and Mattix, Rodney D., 3,640,820.
- Kovarik, James F.; and Vossos, Peter H., 3,660,301.
- Lorenc, Walter F.; and Berner, Roland A., 3,666,664.
- Mayerle, Evan A.; and Minderhout, James R., 3,696,009.
- Means, Jay C., 3,697,224.
- Michalski, Raymond J., 3,639,260.
- Michalski, Raymond J., 3,660,305.
- Miller, Richard C., 3,672,125.
- Moore, Leslie D., 3,670,020.
- Newkirk, John D., 3,654,158.
- Oberhofer, Alfred W.; Anderson, Donald R.; and Payne, Charles C., 3,664,870.
- Olewinski, Edward W., 3,656,889.
- Patzelt, Harold I.; Connelly, Lawrence J.; Ballweber, Edward G.; Korzenski, David B.; and Slepicka, Kenneth L., 3,663,518.
- Payne, Charles C., 3,689,431.
- Pluta, Linda J.; and Vossos, Peter H., 3,699,049.
- Roberts, Melvin L.; Johnson, Carl E.; and Miller, Richard C., 3,676,356.
- Sampson, Ronald G., 3,640,894.
- Sampson, Ronald G., 3,699,051.
- Sawyer, Roy D., 3,649,167.
- Sawyer, Roy D.; and Tinsley, John D., 3,673,083.
- Schuh, Theodore R., Jr., 3,660,339.
- Seale, Virgil L.; Moreland, Billy Ray; and De Shazo, James Derwin, 3,676,501.
- Sibert, Frederick J., 3,681,012.
- Stanford, James R.; and Vogelsang, Paul G., Jr., 3,692,881.
- Thompson, Ralph Brewster, 3,652,433.
- Troscinski, Edwin S.; and Robertson, Reed S., 3,639,263.
- Vossos, Peter H., 3,644,213.
- Vossos, Peter H., 3,649,348.
- Vossos, Peter H., 3,652,329.
- Wolfson, Leonard L., 3,674,457.
- Youngs, Roger W., 3,634,288.
- Youngs, Roger W.; and Sandri, Joseph M., 3,660,073.
- Nalco Manufacturing Company, Inc.: *See—*
- Walter, George, 3,700,011.
- Nalepka, Raymond: *See—*
- Deradorian, Bagdasar; Svenson, James; and Nalepka, Raymond, 3,665,497.
- Nalevanko, Richard N.: *See—*
- Hubbard, Ronald R.; and Nalevanko, Richard N., 3,700,185.
- Naley, Lowell B.: *See—*
- Barlass, John W.; and Naley, Lowell B., 3,665,725.
- Nall, Clive: *See—*
- Deal, John V.; and Nall, Clive, 3,683,100.
- Nall, Thomas J., to United States of America, Army, mesne. Thermionic electron emitter containing thorium carbide, thorium oxide and zirconium carbide. 3,706,001, 12-12-72, Cl. 313-346.00c.
- Nalley, Charles E.; and Lovelace, Joseph B., to PPG Industries, Inc. Glass fiber size. 3,655,353, 4-11-72, Cl. 65-3.
- Nambu, Takeshi: *See—*
- Kimura, Hiroshiro; Nambu, Takeshi; Inoue, Kiyoshi; Imahori, Yoshiyuki; Yamaguchi, Kenjiyo; and Umeno, Kyojo, 3,692,384.
- Nambu, Yasuo: *See—*
- Hachisu, Mikio; Saito, Chikanori; Sitamura, Osamu; and Nambu, Yasuo, 3,659,323.
- Nameda, Naoyoshi; and Kano, Tetsuhiro, to Tokyo Shibaura Electric Co., Ltd. Illuminating lamp having concave segments on exterior bulb surface. 3,652,892, 3-28-72, Cl. 313-116.
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- Nametz, Richard C.: *See—*
- Lamson, James E.; and Nametz, Richard C., 3,682,692.
- Namika, Ryoichi; and Ariga, Masao, to Canon Kabushiki Kaisha. Electrophotographic copying machine. 3,661,455, 5-9-72, Cl. 355-14.
- Namikawa, Keishi: *See—*
- Watanabe, Masami; Namikawa, Keishi; Yasuda, Kotaro; and Takagi, Motoyoshi, 3,697,605.
- Namiki, Isamu: *See—*
- Shioda, Hirohisa; Namiki, Isamu; Hori, Hisako; and Katsuyama, Yoshihisa, 3,639,483.
- Namiki, Kazuo: *See—*
- Izumitani, Tetsuro; and Namiki, Kazuo, 3,661,600.
- Namiki, Kyoji: *See—*
- Saito, Nobuo; and Namiki, Kyoji, 3,672,510.
- Namiki, Tadao: *See—*
- Ohsumi, Yoshio; Matsunaga, Yoshiki; Ishida, Hiroshi; Onoda, Takeshi; Onishi, Masaru; Kasugai, Hiroshi; and Namiki, Tadao, 3,636,034.
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- Doi, Kikuo; Takahashi, Masao; Nanamatsu, Satoshi; and Fujino, Yoshio, 3,644,761.
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- Shore, Sherman J., 3,690,492.
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- Bernard, Jean Claude; and Pascal, Pierre, 3,649,592.
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- Woolensak, John C.; and Napolitano, John P., 3,678,112.
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- Bilinski, Donald J.; Galowin, Lawrence S.; and Napolitano, Michael, 3,675,711.
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- Murfree, James A., Jr.; Hubbuck, Theodore N.; Nappier, Henry A.; Duncan, William A.; and Sandlin, Billy J., 3,667,219.
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- Kimura, Hiroshi; Arimoto, Heiji; Nara, Hirohisa; Miyamatsu, Tsugio; and Kitajima, Mitsuo, 3,695,306.
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- Haugwitz, Rudiger D.; and Narayanan, Venkatachala Lakshmi, 3,665,007.
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- Hausner, Jerry, 3,706,940.
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- Fox, David J.; King, Jane E.; and Nardelli, Orazio J., 3,670,306.
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- Eckert, Clarence J.; and Nardone, Benedetto C., 3,645,509.
- Naredi, Robert Gerhard Franz Josef, to AB Cementa and Skega AB. Lifting members in wear lining for rotary drums. 3,637,147, 1-25-72, Cl. 241-299.
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- Jackson, Dennis E.; and Rustin, Francis R., 3,656,506.
- Naret, Grigory Borisovich: *See—*
- Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Guhanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
- Narisawa, Fumitugu: *See—*
- Kobayashi, Wagi; and Narisawa, Fumitugu, 3,690,831.
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- Ohira, Shigemasa; Hanzawa, Hisoshi; and Narita, Hisaya, 3,660,727.
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- Asakawa, Kazuo; and Narita, Kaoru, 3,697,546.
- Togashi, Shozo; Makijima, Yoshijima; Tanaka, Ikuo; and Narita, Kaoru, 3,643,396.
- Narita, Shigeo: *See—*
- Miyake, Yasuhiko; Takayanagi, Eifu; Narita, Shigeo; Shin, Masaaki; Hayashi, Roshio; and Sakurai, Koichi, 3,676,053.
- Narita, Yoshihiro: *See—*
- Kobayashi, Akito; Watanake, Kiyoshi; Narita, Yoshihiro; Shiota, Eiji; and Iwaoka, Kenji, 3,646,102.
- Narken, Bernt: *See—*
- Greenstein, Bernard; Langston, Perry R., Jr.; Narken, Bernt; and Sunners, Brian, 3,663,194.
- Hoogendoorn, Helen M.; Liberman, Herbert E.; Narken, Bernt; and Sunners, Brian, 3,639,976.
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- Maissel, Leon I.; Narken, Bernt; and Sunners, Brian, 3,650,737.
- Narlock, Raymond M.: *See—*
- Metevia, Virgil L.; Narlock, Raymond M.; and Mast, Milfred E., 3,677,877.
- Narozhenko, Tamara Georgievna: *See—*
- Menyailo, Anatoly Tikhonovich; Pokselov, Mikhail Valerievich; Kaliko, Olga Romanovna; Pokrovskaya, Inna Evgenievna; Fedorova, Valentine Vsevolodovna; Shilnikova, Albina Georgievna; Yakovleva, Antonina Karpovna; and Narozhenko, Tamara Georgievna, 3,664,810.
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- Shiomi, Masanao; and Narumi, Tadataka, 3,705,740.
- Suzuki, Akira; and Narumi, Tadataka, 3,662,548.
- Narumiya, Tsuneaki: *See—*

- Furukawa, Junji; Saegusa, Takeo; Onishi, Akira; Ishikawa, Takao; Anzai, Shiro; Irako, Koichi; Narumiya, Tsuneaki; and Ishizuka, Yuzo, 3,649,607.
- Yoshimoto, Toshio; Kaneko, Seiya; Sasaki, Takashi; Narumiya, Tsuneaki; Yoshii, Hiroshi; and Takamatsu, Tetsuya, 3,652,517.
- Naruns, Laimons: *See—*
- McLean, William B.; and Naruns, Laimons, 3,653,486.
- Narusawa, Shozo; and Izuka, Noritoshi, to Yurin Tokushi Kogyo Co., Ltd. Device for preserving drugs for injection. 3,637,072, 1-25-72, Cl. 206-63.2.
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- Ogata, Fumimaro; Naruse, Tsutomu; and Itoh, Torazo, 3,642,565.
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- Ayukawa, Yaichi; Naruse, Uhei; Itoh, Tadayoshi; and Miyakawa, Tsuneaki, 3,671,261.
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- Roberts, David; and Nasarevich, Leo S., 3,650,280.
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- Jaster, Dale R.; and Nasby, James S., 3,678,376.
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- Risgaard, Ernest Milton, 3,692,608.
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- Libby, Clarence R., 3,686,831.
- Stein, Robert, 3,694,107.
- Nash, Franklin Richard: *See—*
- Bridenbaugh, Paul Michael; Carruthers, John Robert; and Nash, Franklin Richard, 3,665,205.
- Nash, Harold W.: *See—*
- Jeffries, Dan W., 3,702,125.
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- Benbrook, Charles H.; and Leclair, Albert W., 3,653,907.
- Gendron, Raymond V.; and Baldi, Albert F., 3,631,972.
- Leclair, Albert W., 3,664,842.
- Leclair, Albert W.; and Benbrook, Charles H., 3,685,996.
- Nashua Corporation, mesne: *See—*
- Izzi, Clement David; and Youngman, Charles Roland, 3,658,574.
- Naskar, Sasanka Sekhar; Hulsmann, Hans-Leo; and Renckhoff, Gustav, to Chemische Werke Witten GmbH. Process for the preparation of diphenyl terephthalate. 3,705,186, 12-5-72, Cl. 260-475.0pn.
- Naslund, Lars A.: *See—*
- Dasinger, Bruce L.; and Naslund, Lars A., 3,644,175.
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- Schroeder, James W.; Naso, Anthony C.; and Eschenauer, Paul R., 3,649,708.
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- Nason, George L.: *See—*
- Bliss, Richard T.; and Nason, George L., 3,660,962.
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- Beiswanger, John Paul Gerhard; and Nassry, Assadullah, 3,679,493.
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- Nast, Roland: *See—*
- Ley, Kurt; Eholzer, Ulrich; Nast, Roland; Metzger, Karl Georg; and Fritsche, Dieter, 3,660,391.
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- Farrington, Allan P.; and Nastus, Anthony J., 3,690,563.
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- Johnson, Richard E.; and Natale, Paul R., 3,638,033.
- Natali, Paul W.: *See—*
- Tedeschi, Robert J.; and Natali, Paul W., 3,642,640.
- Tedeschi, Robert J.; and Natali, Paul W., 3,642,641.
- Tedeschi, Robert J.; and Natali, Paul W., 3,655,571.
- Natali, Remigio; and Giombini, Giuseppe, to Colgate-Palmolive Company. Granulation process. 3,687,853, 8-29-72, Cl. 252-89.000.
- Natapov, Simon Leibovich: *See—*
- Potak, Yakov Mikhailovich; Orzhekovsky, Julian Felixovich; Sachkov, Vladimir Vladimirovich; Kagan, Efim Solomonovich; Valdman, Anna Ivanovna; Shpagina, Nadezhda Nikolaevna; Poplavko-Mikhailov, Mikhail Vasilievich; Fomin, Alexander Pavlovich; and Natapov, Smon Leibovich, 3,690,869.
- Natelson, Samuel, to Rohe Scientific Corporation. Automated clinical laboratory. 3,635,394, 1-18-72, Cl. 233-26.
- Natelson, Samuel. Hand automatic sampler and diluter. 3,681,030, 8-1-72, Cl. 23-259.000.

Natelson, Samuel, to Rohe Scientific Corporation. System for transferring liquids between containers. 3,687,632, 8-29-72, Cl. 23-259,000.

Natens, Luc Yves, to Gevaert-Agfa N.V. Spectrophotometer for measuring thickness or weight of water-containing coatings. 3,661,462, 5-9-72, Cl. 356-51.

Natens, Marcel Clement Rene: *See—*
Martens, Jean Victor; Natens, Marcel Clement Rene; and De Aguirre, Amanuel, 3,657,631.

Nater, Charles; and Buck, Willard E. Optical surface inspection apparatus. 3,667,846, 6-6-72, Cl. 356-120.

Nathan, Thomas C.: *See—*
Glos, Edmond A., II, 3,643,803.

Nathans, Robert L.: *See—*
Kuhns, Roger J.; and Nathans, Robert L., 3,691,350.
McGlinchey, Hugh A.; and Nathans, Robert L., 3,665,448.

Nathansohn, Giangiacomo; Odasso, Gianfranco; De Ruggieri, Pietro; and Guzzi, Umberto, to Gruppo Lepetit S.p.A. Unsaturated pregna-3,20-dione-(17a, 16a-d) oxazolines. 3,641,007, 2-8-72, Cl. 260-239,55.

Nathanson, Albert. Electric cap gun and light therefor. 3,648,395, 3-14-72, Cl. 42-54.

Nathanson, Fred E.; and White, David M., to United States of America, Navy. Digital programmed transmitter. 3,702,476, 11-7-72, Cl. 343-17,1pf.

Nathanson, Harvey C.; and Wickstrom, Robert A., to Westinghouse Electric Corporation. Conductor elements spaced from microelectronic component surface and methods of making the same. 3,672,985, 6-27-72, Cl. 117-212,000.

Nathanson, Harvey C.; and Davis, John R., Jr., to Westinghouse Electric Corporation. Microelectronic conductor configurations and methods of making the same. 3,681,134, 8-1-72, Cl. 117-212,000.

Nathe, Raymond J.: *See—*
Fitchman, Arthur E.; and Nathe, Raymond J., 3,640,775.

Nather, Claus Siegfried, to Auergesellschaft GmbH. Pack for gas mantles. 3,677,398, 7-18-72, Cl. 206-45,34.

Nathorst-Westfelt, Lars Solve: *See—*
Bamberg, Peter; Ekstrom, Bertil Ake; Sjoberg, Berndt Olof Harald; and Nathorst-Westfelt, Lars Solve, 3,642,810.

Nation, John A., to United States of America, Navy. High power pulsed microwave source. 3,700,952, 10-24-72, Cl. 315-3,500.

Nation, Melvin S., to Motorola, Inc. Apparatus for quickly mounting and electrically connecting components in a housing with camming connector arrangement. 3,641,395, 2-8-72, Cl. 317-117.

National Acceptance Company of California, mesne: *See—*
Jaisinghani, Gul G., 3,663,345.

National Aeronautics and Space Administration: *See—*
Huff, Ronald G., 3,671,329.
Phlieger, Graydon A., Jr., 3,673,424.

National Aeronautics & Space Administration under the provisions of 42 USC. 2457(d): *See—*
Curtis, Daniel L., 3,635,216.

National Aeronautics and Space Administration: *See—*
Arias, Alan, 3,675,910.
Barbera, Anthony J., 3,672,999.
Bement, Laurence J., 3,670,559.
Burch, John L., 3,678,771.
Davis, John W.; and Belew, Herschel W., Jr., 3,670,564.
Lees, Wayne L., 3,671,798.
Light, David J., 3,670,563.
Quatinetz Max; Weeton, John W.; and Herbell, Thomas P., 3,676,084.

National Aeronautics and Space Administration: *See—*
Bailey, Marion C.; and Crowell, William F., 3,638,224.

National Alarm Products Co., Inc.: *See—*
Freisinger, Raymond, 3,632,879.

National Automatic Tool Company, Inc.: *See—*
Snider, Theodore O.; and Teeple, Michael D., 3,669,599.

National Bank and Trust Company of Central Pennsylvania; administrator, d.b.m.c.t.a. of the estate of Beach, Willard C.; deceased, and administrator c.t.a. of the estate of Beach, Mary B.: *See—*
Grote, George A., 3,678,662.
Grote, George A., 3,681,899.

National Bank at Orlando, The: *See—*
Garrett, Leo Lawrence; and Birdyshaw, Walter L., 3,696,372.

National Bank Book Company, Inc.: *See—*
Krikorian, Albert P., 3,684,340.

National Beryllia Corporation: *See—*
Fleischner, Peter L., 3,679,463.
Hessinger, Philip S., 3,662,086.
Snyder, Christopher L.; and Hessinger, Philip S., 3,694,699.

National Biscuit Company: *See—*
Griner, Arthur J.; and Ryder, George, 3,675,792.

National Blank Book Company, Inc.: *See—*
Sheehan, Robert F., 3,686,780.
Sibley, William J., 3,642,552.

National Bulk Carriers, Inc.: *See—*
Lovelace, Richard S., 3,657,829.

National Can Corporation: *See—*

Boyme, Theodore, 3,689,327.

Krupp, Robert F.; and Miller, Stanley J., 3,679,091.

Miller, Stanley J.; and Davidson, James P., 3,677,211.

Miller, Stanley J.; and Davidson, James P., 3,679,090.

Morris, Robert J., Jr.; and Hartz, Thomas Jayes, 3,666,138.

Phillips, Howard D., 3,642,116.

Stepenske, Lawrence D.; and Cassidy, Edward K., 3,677,226.

Zenger, Richard D.; and Lewis, Albert F., 3,686,820.

National Can Retinning Company: *See—*
Jones, Jack D., 3,694,729.

National Car Rental System, Inc., mesne: *See—*
Stilwell, Emerson J., 3,633,643.

National Cash Register Company, mesne: *See—*
Ernst, Frank, 3,646,577.

National Cash Register Company, The: *See—*
Ackerman, Howard T.; and Kessler, Clarence W., 3,675,239.
Anderson, Jerrold L.; Haines, Robert C., Jr.; and Powell, Thomas C., 3,694,372.
Arbab, Majid; Wong, William Y.; and Yu, Kuenseng, 3,680,061.
Bayless, Robert G.; Shank, Charles P.; Botham Ruth A.; and Werkmeister, Dennis W., 3,674,704.
Blose, James H.; Pinell, William F.; and Talvalkar, Shashikant G., 3,663,278.
Blose, James H.; and Talvalkar, Shashikant G., 3,674,535.
Bossmann, Clifford W.; Kaufmann, Harland A.; and Mathes, Charles E., 3,698,069.
Bremner, David F.; and Smith, Stephen B., 3,690,250.
Brockett, Bruce W., 3,634,121.
Brown, George T., Jr.; and Clark, Donald B., 3,697,323.
Bucklin, Edward P., Jr.; Evans, Pat E.; and Gerlach, Richard K., 3,656,130.
Campbell, Hugh W., 3,638,573.
Campbell, Hugh W., 3,694,243.
Campbell, Hugh W., 3,697,668.
Carlson, Carl O.; Bernstein, Herbert L.; and Franco, Albert J., 3,656,175.
Cartmell, James V.; and Churchill, Donald, 3,674,338.
Cartmell, James V.; Churchill, Donald; and Koopman, Donald E., 3,700,306.
Cassel, John W., 3,660,639.
Christie, John B.; Abuls, Dzintars; and Van Breukelen, Wilfridus G., 3,637,993.
Christie, John B., 3,671,722.
Christie, John B.; Robison, Glenn W.; and Runquist, Raymond C., Jr., 3,684,868.
Churchill, Donald; Cartmell, James V.; and Miller, Robert E., 3,697,297.
Clinehens, Richard M.; Stewart, John K., Jr.; and Ditmer, Robert W., 3,674,579.
Coleman, William E., 3,704,052.
Congleton, David B.; Roberts, Donald L.; and Evans, Pat E., 3,701,999.
Cooney, Frank E., 3,660,803.
Crainich, Victor A., Jr., 3,657,143.
Cull, Duncan E.; and Culbertson, Alvin E., 3,668,661.
De Graff, Peter H., 3,698,528.
De Vol, Forrest E.; Eberhardt, George J.; and Zurbuchen, Louis E., 3,688,691.
Donohue, James P.; Bange, Donald A.; and Miyata, John J., 3,653,011.
Farber, Sheldon; and Wright, Arthur John, 3,642,827.
Farber, Sheldon; and Wright, Arthur John, 3,642,828.
Farber, Sheldon; and Wright, Arthur John, 3,654,314.
Farber, Sheldon; and Wright, Arthur J., 3,694,461.
Fellows, Charles T.; and Hermann, Stanley R., 3,639,166.
Fellows, Charles T.; Hermann, Stanley R.; and Hochwalt, Norman C., 3,689,316.
Fischer, Robert E.; Raiff, Lawrence C.; Seybold, James M.; and Zimmerle, Donald F., 3,674,924.
Fogle, Mark V.; and Horger, George, 3,697,437.
Frazier, John R.; and Longstreth, Larry D., 3,667,623.
Frock, Brian G., 3,704,467.
Gay, Leslie W., 3,683,334.
Getker, James A.; and Weeks, Horace W., 3,692,980.
Goffee, James A., 3,653,002.
Graham, Richard E., 3,678,465.
Haney, Ralph D.; and Aneshansley, Nicholas E., 3,691,538.
Haney, Ralph D.; Zachar, James E.; and Drozd, Charles J., 3,702,988.
Henry, James L., 3,670,982.
Hilbelink, Ronald D.; and Peters, Gavin H., 3,657,379.
Horger, George, 3,639,256.
Horger, George, 3,692,690.
Horst, William R.; and Schleicher, Lowell, 3,673,597.
Huber, Hans F., 3,703,474.
Ikeda, Kazuhiko, 3,703,987.
Irasek, Eugene H., 3,643,241.
Janning, John L., 3,652,891.
Johnston, Lynn M.; Jones, Chester G.; Krebs, Frederick G.; and Redman, Samuel A., 3,631,797.

Johnston, Lynn M.; Jones, Chester G.; Neal, Harold D.; and Redman, Samuel A., 3,636,868.

Jones, Clarence L., 3,687,256.

Kessler, Clarence W.; and Trzaska, Theodore T., 3,637,291.

Koepp, Ronald L., 3,636,385.

Koepp, Ronald L.; and Dudkowski, Stanley J., 3,645,695.

Koepp, Ronald L.; and Havas, Janos, 3,663,277.

Krause, Hans-Juergen; and Rindsfuesser, Johannes, 3,652,010.

Krause, Hans-Juergen; and Rindsfuesser, Johannes, 3,682,379.

Krebs, Frederick G.; Marcey, Stephen D.; and Redman, Samuel A., 3,635,156.

Krebs, Frederick G.; and Redman, Samuel A., 3,652,965.

Kruer, Clifford W.; and Frazier, John R., 3,660,747.

Landis, Donald E.; and Sidhu, Mohanjit S., 3,668,942.

Landis, Donald E.; and Sidhu, Mohanjit S., 3,702,585.

Landis, Donald E.; Sidhu, Mohanjit S.; and Cone, Richard E., 3,703,903.

Lin, Chao-Han, 3,637,757.

Lin, Chao-Han; and Wright, Arthur J., 3,641,011.

Lin, Chao-Han, 3,681,390.

Lin, Chao-Han; and Wright, Arthur J., 3,703,397.

Lockwood, George C., 3,651,492.

Lockwood, George C., 3,676,717.

Maierson, Theodore; Roe, Harry L., Jr.; and Williams, James E., 3,703,254.

Marinelli, Nicola, 3,639,137.

Menchikov, Leonid Petrovich; Kopylov, Kim Ivanovich; Okun, Evsei Lvovich; Smirnov, Vasily Mikhailovich; Gavrikov, Viktor Stepanovich; Fridman, Ilya Davidovich; Markov, Vyacheslav Evgenievich; and Sopin, Alexandr Alexandrovich, 3,651,301.

Michels, Heinz-Gunter, 3,656,742.

Miller, Robert E.; and Brockett, Bruce W., 3,663,256.

Miller, Robert E.; and Phillips, Paul S., Jr., 3,672,935.

Milligan, Gene E., 3,641,525.

Miyata, John J., 3,633,274.

Naber, Charles T., 3,647,535.

Nagy, Charles S., 3,674,989.

O'Connor, James E., 3,701,118.

Patel, Pravin K.; and Stone, Eliot, 3,674,554.

Percival, John O., 3,665,590.

Percival, John O., 3,667,848.

Peters, Arnis E.; and Miles, Lyle G., 3,634,005.

Phillips, Paul S., Jr., 3,700,439.

Powell, Floyd G., Jr., 3,653,122.

Purcell, Antoinette M.; Thies, Curt; Bank, Morris I.; and Leffingwell, James W., 3,694,246.

Purcell, Antoinette M., 3,640,892.

Reboulet, William C.; and Werner, David C., 3,633,819.

Scarpelli, Joseph A., 3,639,259.

Schaab, Carl K.; Weyrauch, George T.; and Davis, Terry R., 3,674,589.

Schleicher, Lowell; Miller, Robert E.; and Porter, Erland C., Jr., 3,697,371.

Touchman, William S., 3,654,859.

Trimble, Ceborn B., 3,648,261.

Trimble, Ceborn B., 3,666,946.

Trimble, Ceborn B.; and Skutt, Robert R., 3,672,043.

Trimble, Ceborn B., 3,685,144.

Trzaska, Theodore T., 3,655,019.

Weeks, Horace W.; and Frazier, John R., 3,664,661.

Yoshida, Noble H., 3,657,144.

Zachar, James E.; and Srode, Walter E., Jr., 3,686,637.

National Controls, Inc.: *See—*
Maffia, Doris; and Schwartz, Linus G., 3,666,032.
Marshall, Kenneth N.; and Schwartz, Linus G., 3,658,142.
Rock, Frank C., 3,653,015.
Schwartz, Linus G., 3,658,143.

National Creative Merchandising Corporation: *See—*
Sztorc, Stanley J., 3,666,337.

National Distillers and Chemical Corporation: *See—*
Baba, Theodore B., 3,640,980.
Baba, Theodore B., 3,652,642.
Bartsch, Raymond C.; and Lerman, Frank, 3,669,922.
Baus, Harry; and Woltermann, Jay R., 3,637,863.
Broering, Leo H.; and Birchall, William R., 3,706,720.
Budke, Clifford C., 3,634,497.
Feldman, Julian; Lerman, Frank; and Miller, Franklyn D., 3,691,021.
Feldman, Julian; and Shaw, Robert J., 3,691,134.
Frampton, Orville D.; Pedigo, Joel B.; and Lecher, Hans Z., 3,673,251.
Frampton, Orville D.; and Feldman, Julian, 3,678,118.
Goetz, Richard W.; and Mador, Irving L., 3,670,021.
Grinninger, Lowell D., 3,706,721.
Hansley, Virgil L.; Schott, Stuart; and Moormeier, Louis F., 3,687,619.
Heiden, Paul W., 3,631,886.
Horvitz, David; and Baugh, William D., 3,705,163.
Hoyt, John M.; and Koch, Karl, 3,637,603.

Hoyt, John M.; and Koch, Karl, 3,706,716.

Lerman, Frank; and Bartsch, Raymond C., 3,674,736.

Miller, Franklyn D., 3,650,983.

Murib, Jawad H.; and Horvitz, David, 3,642,853.

Murib, Jawad H., 3,649,223.

Pedigo, Joel B.; Feldman, Julian; and Keresztes, Imre A., 3,666,766.

Platz, Gerald M.; and Honn, James B., 3,669,347.

Platz, Gerald M., 3,677,684.

Quackenbush, John J., 3,700,367.

Rainbird, Herbert A.; and Gordon, William E., 3,661,165.

Robinson, Robert E., 3,670,034.

Walkup, Norris W.; Mauck, James W.; and Hood, Irvin D., 3,631,584.

Watson, Lloyd M.; and Birchall, William R., 3,645,994.

Watson, Lloyd M.; and Broering, Leo H., 3,649,606.

Watson, Lloyd M.; and Birchall, William R., 3,677,477.

National Dust Collector Corporation: *See—*
Kent, Roger E., 3,680,282.
Kent, Roger E., 3,683,593.
McIlvaine, Robert L.; and Kent, Roger E., 3,656,279.
McIlvaine, Robert L., 3,677,407.
McIlvaine, Robert W., 3,668,825.

National Electro-Cook Corporation: *See—*
Roslonski, Donald J., 3,651,752.

National Engineering Company: *See—*
Kauffman, John H.; and Donat, Ralph J., 3,635,447.

National Equipment Research Inc.: *See—*
Venturelli, Fred W.; and Brigran, Foy L., 3,667,475.

National Forge Company: *See—*
Bowles, Arnold G.; and Follette, Neil, 3,698,843.
Bowles, Arnold Gordon, 3,660,593.
Bowles, Arnold Gordon, 3,677,674.
Witkin, Donald E., 3,650,657.
Witkin, Donald E., 3,664,540.
Witkin, Donald E., 3,669,301.

National Gypsum Company: *See—*
Dawdy, Jack A., 3,671,061.
Harlock, George H.; and Burkard, Edward A., 3,697,366.
Kole, Donald R.; and Johnson, Robert M., 3,634,562.
Mullenhoff, James A.; and Voisinot, Walter E., 3,657,036.
Northsea, George A., 3,701,408.

National Institute of Radiological Sciences, Science and Technology Agency, Director: *See—*
Tanaka, Eiichi; Hiramoto, Toshiyuki; and Nohara, Norimasa, 3,691,379.

National Instrument Laboratories, Inc.: *See—*
Steele, Dale I., 3,653,399.

National Lead Company: *See—*
Blumenthal, Warren B., 3,694,254.
Love, Frank E., 3,640,801.
Pippen, William C., 3,691,070.

National Machinery Company, The: *See—*
Grombka, Walter J.; and Lyon, Lloyd B., 3,651,920.
McClellan, Herbert L.; Dom, Harry A.; and Wisebaker, Robert E., 3,685,070.

National Manufacturing Co.: *See—*
Banse, George, 3,702,591.
Edeus, James A., 3,648,327.
Edeus, James A., 3,662,808.
Linville, Richard D., 3,648,793.

National Nail Pty. Ltd.: *See—*
Sachs, Roger Norman, 3,671,017.

National Nuclear Corporation: *See—*
Untermyer, Samuel, 3,636,353.
Untermyer, Samuel, 3,707,631.

National Patent Development Corporation: *See—*
de Long, Charles F.; and Shepherd, Thomas H., 3,669,691.
Gayle, Robert, 3,632,039.
Gould, Francis E.; and Shepherd, Thomas H., 3,641,237.
Gould, Francis E.; and Shepherd, Thomas H., 3,660,071.
Gould, Francis E.; and Shepherd, Thomas H., 3,660,563.
Gould, Francis E.; and Shepherd, Thomas H., 3,681,089.
Gould, Francis E.; and Shepherd, Thomas H., 3,681,248.
Gutttag, Alvin, 3,633,546.
Shepherd, Thomas H.; and Gould, Francis E., 3,632,416.
Shepherd, Thomas H.; and Gould, Francis E., 3,635,756.
Shepherd, Thomas H.; and Jacob, Ezekiel J., 3,660,218.
Shepherd, Thomas H.; and Gould, Francis E., 3,660,561.
Shepherd, Thomas H.; and Gould, Francis E., 3,670,073.
Shepherd, Thomas H.; and Gould, Francis E., 3,674,901.
Shepherd, Thomas H.; and Gould, Francis E., 3,695,921.
Shepherd, Thomas H.; and Gould, Francis E., 3,697,643.
Vit, Jaroslav, 3,660,416.

National Petro Chemicals Company, Inc., mesne: *See—*
Aboutboul, Henri A.; and Krekeler, Jerome H., 3,652,214.
Aboutboul, Henri A.; Kirch, William; and Krekeler, Jerome H., 3,652,215.
Krekeler, Jerome H.; Aboutboul, Henri A.; and Kirch, William, 3,652,216.

National Polymers and Chemicals Corporation: *See—*

- Laumann, David H. E., 3,654,064.
National Rejectors, Inc., G.m.b.H.: *See—*
Lindner, Werner, 3,667,585.
National Research and Chemical Company: *See—*
Ray, Manuel C., 3,705,598.
National Research Corporation: *See—*
Allen, Lloyd R., 3,661,662.
Allen, Lloyd R., 3,671,306.
Chadsey, Earl E., Jr.; and Feakes, Frank, 3,660,146.
Chadsey, Earl E., Jr.; and Feakes, Frank, 3,666,578.
Douglass, Richard W., 3,681,063.
Feakes, Frank; and Padawer, Gabriel E., 3,702,261.
National Research Development Corporation: *See—*
Backhurst, John Rayner; Goodridge, Francis; Plimley, Raymond
Ernest; and Fleischmann, Martin, 3,654,098.
Bassett, Richard; and Mulvey, Thomas, 3,659,097.
Bassett, Richard; and Mulvey, Thomas, 3,707,628.
Beach, Allan David, 3,642,352.
Beck, Maurice Sidney, 3,636,763.
Bell, Charles Anthony; and Young, Anthony David, 3,643,076.
Bentall, Richard Hugh Cameron, 3,685,509.
Bergman, Imanuel, 3,668,101.
Bickerdike, Robert Lewis; and Hughes, Garyth, 3,676,160.
Bird, Brian Michael; and Rawcliffe, Gordon Hindle, 3,703,672.
Bonnar, John, 3,646,929.
Brain, Thomas John Stirrat, 3,688,106.
Briggs, Ronald, 3,652,850.
Brindley, Giles Skye; and Donaldson, Peter Eden Kirwan,
3,699,970.
Broadway, Alexander Richard William; Fong, William; and
Rawcliffe, Gordon Hindle, 3,673,477.
Broadway, Alexander Richard William; Fong, William; and
Rawcliffe, Gordon Hindle, 3,686,553.
Brown, Basil Reginald; and Wood, Leslie Ballentyne, 3,649,531.
Busby, Terence Stanley, 3,684,262.
Carr-Brion, Kenneth Garfield; and Jenkinson, Doris Audrey,
3,666,943.
Carrick, Alan, 3,639,741.
Carroll, Ronald Frank, 3,697,116.
Clifton, John Stephen; and Parker, Dawood, 3,700,578.
Clifton, John Stephen; and Parker, Dawood, 3,700,579.
Coackley, Robert; Reynolds, Michael Leslie; and Rodgers, Clive
Douglas, 3,641,345.
Critchley, John Phillip; and Lee, William Alexander, 3,649,601.
Datta, Ranjit Kanti, 3,638,393.
De Brie Perry, Forbes George, 3,662,857.
Dee, Roger, 3,656,186.
Devas, Michael Bertrand, 3,651,521.
Dine-Hart, Raymond Anthony, 3,654,227.
Dore, Marcus John, 3,691,484.
Elliott, Michael, 3,647,824.
English, John Walter, 3,680,511.
Fenner, David Fentom, 3,705,765.
Firth, Jack Graham; and Jones, Thomas Alwyn, 3,702,397.
Fyson, John William; and Truscott, John Raymond, 3,661,157.
Giltrow, Jeremy Peter; Kinner, George Henry; and Lancaster,
John Keith, 3,674,689.
Gooding, Ronald William; and Parratt, Noel James, 3,633,743.
Goodwin, Robert James; and Greetham, Geoffrey, 3,666,448.
Hambleton, Kenneth G., 3,651,562.
Hancock, Roger Harvey Yorke; and McCallum, James E.,
3,641,765.
Hare, George Anthony; and Smith, Alan Ernest William,
3,676,115.
Hobden, Maurice Vernon; Rich, George Joseph; and Robertson,
Daniel Stewart, 3,670,186.
Holroyd, John, 3,701,604.
Houldcroft, Peter Thomas; and Sullivan, Arthur Basil Joseph,
3,679,863.
Ibbett, Roland Norman; and Aspinall, David, 3,640,625.
Ingram, John Anthony, 3,679,108.
Isaacs, Alick; and Lindenmann, Jean, 3,699,222.
Jenkins, John Edward, 3,636,423.
Jones, Clive Lynn, 3,705,290.
Kay, Leslie; Maginness, Maxwell Glynn; and Cook, Graham
Bramwell, 3,675,472.
Laithwaite, Eric Roberts; and Bolton, Hugh Robert, 3,648,084.
Lees, Alexander; Richards, John Charles Shenstone; and Jason,
Alfred Charles, 3,665,302.
Lilly, Malcolm Douglas; Kay, Garth; Wilson, Richard John
Hugh; and Sharp, Alister Kimball, 3,674,767.
Lindsey, Alan Sidney; and Hunt, Sydney Edwin, 3,676,399.
Lowe, Desmond, 3,680,585.
MacFarlane, John James, 3,638,859.
MacLeod, Norman; and Proctor, David, 3,700,580.
Maines, James Dennis; and Paige, Edward George, 3,660,756.
Malet, Michael Anley; and Hills, David Leslie, 3,667,880.
Maynard, Douglas Edward, 3,699,947.
Mc Dicken, William Norman, 3,688,564.
McGready, Victor Ralph; and Newbery, Sidney Patrick,
3,666,952.
Paffett, James Arthur Haines, 3,635,182.
Palmer, Kenneth Norman, 3,699,368.
Phillips, Leslie Nathan; and Thomas, David Kenneth, 3,645,968.
Pitteway, Michael Lloyd Victor, 3,675,230.
Porteous, Andrew, 3,697,382.
Quayle, Joshua Creer; Greatrix, Graham Roland; and Coombe,
Ronald Alan, 3,664,306.
Reid, Hugh Alistair; Esnouf, Michael Peter; and Chan, Kok
Ewe, 3,657,416.
Scales, John Tracey; and Goddard, David, 3,694,820.
Scales, John Tracey; and Goddard, David, 3,698,017.
Scar, Reginald; and Dean, Peter Mervyn, 3,655,973.
Shillam, Norman Frederick, 3,646,839.
Shuttleworth, Frank, 3,651,944.
Simpson, David Cumming, 3,675,962.
Singer, Alfred Richard Eric, 3,670,400.
Sixsmith, Herbert, 3,639,014.
Smith, Dennis Clifford, 3,655,605.
Spillman, John James, 3,702,643.
Stark, Donald Sutherland, 3,683,190.
Stein, Stephen, 3,665,187.
Stephenson, John Michael, 3,654,480.
Swithenbank, Joshua; and Taylor, David Shaw, 3,631,873.
Te'Eni, Moshe, 3,640,126.
Trott, John James; and Grainger, James William, 3,678,378.
White, Martin; and Luff, Peter Purnell, 3,686,022.
Wolffers, David, 3,659,597.
Wood, James David London Hedley, 3,664,960.
Wright, John Thomas Matthew; and Calvert, Alan Hilary,
3,684,405.
Wyatt, Derek Gerald, 3,681,986.
Young, Geoffrey Tyndale, 3,655,636.
National Research Institute for Metals, Director of: *See—*
Tachikawa, Kyoji; Tanaka, Yoshiaki; and Fukuda, Satoshi,
3,674,553.
National Screw & Manufacturing Company, The: *See—*
Massa, Joseph H., 3,643,544.
National Sea Products Limited: *See—*
Smith, Benjamin C.; and Pridham, Ernest R., 3,635,149.
National Semiconductor Corporation: *See—*
Hanna, John E., 3,633,052.
Hanna, John E., 3,706,937.
Kalb, Jeffrey C.; and Widlar, Robert J., 3,702,955.
Mrazek, Dale A., 3,648,071.
Sarkissian, Vahe, 3,638,131.
Talbert, David V., 3,651,565.
National Shellfish Processors, Inc.: *See—*
Woodbridge, David D.; Kitchel, Joseph Clyde; and Garrett, Wil-
liam R., 3,641,982.
National Starch and Chemical Corporation: *See—*
Brown, Gerald H.; and Mazzarella, Emil D., 3,671,310.
Flanagan, Thomas P.; and Kaye, Irving, 3,644,245.
Georgoudis, Paul C.; and Ray-Chaudhuri, Dilip K., 3,660,010.
Jarowenko, Wadym; and Rutenberg, Morton W., 3,666,751.
Liberti, Felix P.; and Field, Stanley, 3,666,459.
Marotta, Nicholas G.; Bell, Harvey; and Trubiano, Paolo C.,
3,650,770.
Marotta, Nicholas G.; Zwiercan, Gary A.; and Boettger, Richard
M., 3,652,294.
Ray-Chaudhuri, Dilip K., 3,632,571.
Ray-Chaudhuri, Dilip K.; and Iovine, Carmine P., 3,660,360.
Ray-Chaudhuri, Dilip K.; and Stockmann, Hans H., 3,678,035.
Sirota, Julius; Bentley, David J., Jr.; and Jubilee, Benjamin D.,
Jr., 3,677,985.
Skoultchi, Martin; and Meier, Eric A., 3,666,732.
Stockmann, Hans H.; and Ray-Chaudhuri, Dilip K., 3,647,763.
Stockmann, Hans H.; and Meier, Eric A., 3,683,033.
Szymanski, Chester D., 3,635,741.
Tessler, Martin M.; and Rutenberg, Morton W., 3,669,890.
Tessler, Martin Melvyn; and Rutenberg, Morton Wolf,
3,699,095.
National Starch and Chemical Corporation, mesne: *See—*
Christenson, Roger M.; and Anderson, Carl C., 3,654,213.
Gruevalder, Valentine J.; and Koebe, Earl A., 3,697,618.
Maska, Rudolf, 3,701,758.
National Steel Construction Co.: *See—*
Warner, Derek C., 3,704,926.
National Steel Corporation: *See—*
Lamantia, Anthony J., 3,652,234.
McGarrity, William F., 3,676,108.
Miltnerberger, Robert S., 3,702,243.
Morrison, James G., 3,669,705.
Saunders, William T., 3,696,963.
Saunders, William T., 3,706,292.
Smith, Edwin J.; and Austin, Lowell W., 3,649,510.
Wegener, Hans F., 3,647,045.
Wilson, Walter A., 3,645,876.
Wood, Mahlon E., 3,673,008.
Zanetti, Joseph R., 3,689,258.
Zickefoose, Rox L.; Miller, Gerald G.; and Judge, James R.,
3,704,621.

- National Tel-Tronics Corporation: *See—*
Heogel, Otto, 3,689,871.
National Telecommunications System, Inc.: *See—*
Crafton, Paul A.; and Mittmeyer, Ingmar, 3,693,155.
National Tool & Die Corporation: *See—*
Deeke, Heinrich E., 3,700,381.
National Tractor Pullers Association: *See—*
Case, Russell P., 3,633,413.
National Twist Drill & Tool Co.: *See—*
Shaner, Milo W.; and Cave, Robert S., 3,667,857.
National Union Electric Corporation: *See—*
Berry, Willis E., 3,676,894.
Brooks, Joseph F.; and Schaefer, Harold W., 3,682,010.
Kinsella, Daniel J., 3,678,882.
Komroff, Paul; and Landell, Harper, 3,635,001.
Lagerstrom, Robert C.; and Berry, Willis E., 3,683,448.
Lagerstrom, Robert C., 3,685,089.
Schaefer, Harold W., 3,665,683.
Schaefer, Harold W.; and Penn, William H., 3,683,444.
National Volume Sales Corporation: *See—*
Franklin, Peace, 3,692,469.
National Water Main Cleaning Co.: *See—*
Primus, Norman S.; and Hunhoff, Raymond, 3,640,759.
National Water Pure Corporation: *See—*
Borochaner, Stuart, 3,636,735.
Borochaner, Stuart, 3,680,703.
National-Standard Company: *See—*
Bryant, Emerson C., 3,637,450.
Cassel, Carlis E.; and Krueger, Donald S., 3,693,903.
Fenner, James M., 3,679,190.
Fenner, James M., 3,697,262.
Frazier, James D.; and Randolph, John F., Jr., 3,633,279.
Frazier, Larry C., 3,645,818.
Frazier, Larry C., 3,645,827.
Frazier, Larry C.; and Bryant, Emerson C., 3,684,621.
Mapel, William S., 3,635,611.
Rawls, Vaughn, 3,686,391.
Rawls, Vaughn; and Howard, Walter B., 3,687,781.
National-Standard Company, mesne: *See—*
Sagmuller, Joseph R.; Joyce, John F.; and McIntire, Hoy O.,
3,688,544.
Nationale Research Development Corporation: *See—*
Melrose, David R.; Patterson, Ronald Lowdon Straiton; and
Reed, Hugh Charles Brent, 3,681,490.
Natanski, Zygmunt. Blood pressure measuring device. 3,659,592, 5-
2-72, Cl. 128-2.05.
Natoli, Joseph G.: *See—*
Ventura, John J.; and Natoli, Joseph G., 3,642,702.
Natschke, Eldred H., to Universal Railway Devices Company. Sealed
non-spin hand brake arrangement. 3,668,944, 6-13-72, Cl. 74-505.
Natschke, Eldred H., to Universal Railway Devices Company. Empty
load device for railroad cars. 3,690,420, 9-12-72, Cl. 188-195.000.
Natsume, Yoshimi: *See—*
Hobo, Nobuhito; Natsume, Yoshimi; and Kaga, Sumihiro,
3,685,526.
Natsumeda, Katsuyuki: *See—*
Sato, Hosi; Natsumeda, Katsuyuki; and Murakami, Kaichi,
3,638,556.
Natta, Giulio; Danusso, Ferdinando; and Ferruti, Paolo, to Mon-
tecchini Edison S.p.A. Copolymers of acrylonitrile with
nitrogenous monomers and process for their preparation.
3,679,643, 7-25-72, Cl. 260-85.50r.
Natter Manufacturing Company: *See—*
Tucker, Council A., 3,661,356.
Natterer, Hans. Ski-training device. 3,650,528, 3-21-72, Cl. 272-57.
Nattermann, A., & Cie GmbH: *See—*
Betzger, Hans, 3,681,412.
Natural Rubber Producers Research Association, The: *See—*
Baker, Crispin Stuart Leworthy; Barnard, Douglas; and Porter,
Maurice Read, 3,645,980.
Cain, Maurice Edward; Saville, Brian; and Knight, Geoffrey
Thomas, 3,689,513.
Nau, Harold Henry, to American Cyanamid Company. Process for
coating particulate material with finely divided solids. 3,666,523,
5-30-72, Cl. 117-33.000.
Naubereit, Henry; and Picard, Salvatore A., to United States of
America, Navy. Signal comparator system. 3,688,202, 8-29-72, Cl.
328-133.000.
Nauchno-issledovatel'skiy i eksperimentalny institut Avromobilnogo
elektrooborudovaniya i avtopriboroo: *See—*
Evgrafov, Boris Ivanovich; Kupee, Jury Alexandrovich; and Tu-
rok, Galina Iosifovna, 3,684,944.
Nauffelt, George W.; and Farncomb, Robert E., to United States of
America, Navy. Process for the synthesis of 2-fluoro-2,2-
dinitroethanol. 3,652,686, 3-28-72, Cl. 260-633.
Naughton, James Gordon, to Endean, Frank C., Jr. Door stop.
3,636,727, 1-25-72, Cl. 62-409.
Naugle, Gene O.; and Harding, Billie R. Tooth extracting instrument.
3,646,679, 3-7-72, Cl. 32-47.
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poration. Percolator coffee basket and filter assembly. 3,669,694,
6-13-72, Cl. 99-310.000.
Naujokas, Frank B.: *See—*
Di Giulio, Albert J.; and Naujokas, Frank B., 3,645,157.
Nauman, Edward B.; Szabo, Ted T.; Klosek, Felix P.; and Kaufman,
Stephen, to Union Carbide Corporation. Devolatilization of liquid
polymer compositions. 3,668,161, 6-6-72, Cl. 260-2.50e.
Nauman, Edward F.: *See—*
Vassiliades, Anthony E.; Nauman, Edward F.; and Shroff,
Shrenik, 3,669,899.
Vassiliades, Anthony E.; Shroff, Shrenik; and Nauman, Edward
F., 3,707,514.
Nauman, Mark R.: *See—*
Powell, Mabrin P.; and Nauman, Mark R., 3,686,015.
Naumann, Franz: *See—*
Kretzschmar, Heinz; and Naumann, Franz, 3,643,784.
Naumann, Fritz A., to Daimler-Benz Aktiengesellschaft. Five-speed
gear-type change speed transmission. 3,690,193, 9-12-72, Cl. 74-
473.00r.
Naumann, Willy R.; Albrecht, Wilhelm; and Wieland, Egon, to
Daimler-Benz Aktiengesellschaft. Shifting lever for motor vehicles
transmissions. 3,680,405, 8-1-72, Cl. 74-523.000.
Naumburg, Per; and Norman, Jan Olof, to AB Centralsug. Silant
valve. 3,672,630, 6-27-72, Cl. 251-149.200.
Naumenko, Viktor Dmitrievich: *See—*
Rubinshtein, Sholom Yakovlevich; Babin, Mikhail Artemievich;
Gutman, Anatoly Lvovich; Naumenko, Viktor Dmitrievich;
Orlov, Evgeny Mikhailovich; Presman, Vladimir Alexan-
drovich; Maev, Veniamin Evnovich; and Bondarenko, Fedor
Alexeevich, 3,678,664.
Naumova, Sofia Fadeevna: *See—*
Bokov, Jury Sergeevich; Vikulina, Ninel Vladimirovna; Dogad-
kin, Boris Aristarkhovich; Erofeev, Boris Vasilievich; Larina,
Anastasia Vasilievna; Lavrishev, Vadim Petrovich; Markov,
Vladimir Vladimirovich; Naumova, Sofia Fadeevna; Jurina,
Olga Demidovna; an Yarovaya, Galina Dmitrievna, 3,674,496.
Naureckas, Edward Martin: *See—*
Mackey, Bruce Alexander, Jr.; and Naureckas, Edward Martin,
3,656,264.
Nauta, Constant Johan, to Nautamix Patent A.G. Device for treating
one or more substances in a vessel provided with at least one
rotatable stirring member. 3,659,826, 5-2-72, Cl. 259-102.
Nauta, Wjbe Thomas, to N.V. Koninklijke Pharmaceutische
Fabrieken v/h Brocades-Stheeman & Pharmacia. Glyceryl ethers.
3,655,775, 4-11-72, Cl. 260-611.
Nautamix Patent A.G.: *See—*
Nauta, Constant Johan, 3,659,826.
Nauchno-Issledovatel'skiy Institut Po Tzvetna Metalurgiya: *See—*
Mehandjiev, Marin Russev, 3,647,672.
Navara, Joseph. Window brace. 3,677,592, 7-18-72, Cl. 292-
288.000.
Navara, Joseph. Filter system for windows. 3,698,308, 10-17-72, Cl.
98-99.00r.
Navara, Joseph. Chisel retractor tool. 3,701,348, 10-31-72, Cl. 128-
20.000.
Navarm Chemical Co.: *See—*
Roof, Carl W., 3,642,191.
Navarro, Pablo (Figuerola). Mop and broom holder. 3,633,860, 1-11-
72, Cl. 248-113.
Nave, Thomas J., to Phillips Petroleum Company. Retractable blow
pin for use with prepunched parisons. 3,690,804, 9-12-72, Cl. 425-
326.000.
Navigation Computer Corporation: *See—*
Peroni, Peter A.; and Jones, John Paul, Jr., 3,664,014.
Navin, William R., Jr.: *See—*
White, Donald J.; and Navin, William R., Jr., 3,641,484.
Navrotsky, Nikolai Viktorovich: *See—*
Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich;
Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov,
Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich;
Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexan-
drovich; Podgornyy, Sevantyn Ivanovich; Zubkov, Vyacheslav
Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai
Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.
Navsat Corporation: *See—*
Jackson, Homer E., 3,691,559.
Nawakowski, Aleksandra Chrobok. Process for preparing certain
substituted bis-ureas. 3,661,989, 5-9-72, Cl. 260-553.00a.
Nawalaniec, George. Yard line marker for football field. 3,634,961,
1-18-72, Cl. 40-125.
Nawrath, Gunter: *See—*
Hermann, Karl-Heinz; Schneider, Joachim; Rudolph, Hans; and
Nawrath, Gunter, 3,699,183.
Schneider, Joachim; Groschel, Herbert; Kubitzek, Harry;
Nawrath, Gunter; and Rudolph, Hans, 3,637,604.
Schneider, Joachim; Hermann, Karl-Heinz; Rudolph, Hans; and
Nawrath, Gunter, 3,660,522.

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Finlay, Walter L.; Nayar, Harbhajan S.; and Hay, Donald A., 3,632,697.
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- Naylor, John Herbert Charles: See—
Fosker, George Robert; and Naylor, John Herbert Charles, 3,663,563.
- Long, Anthony Alfred Walter; and Naylor, John Herbert Charles, 3,674,776.
- Naylor, David C.; and Leyburn, Derek, to Bell Canada. Automatic call through test set. 3,700,830, 10-24-72, Cl. 179-175.20r.
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- Naylor, Keith W.: See—
Black, Herman Wendell; Wright, Richard R.; Fullmer, Don K.; and Naylor, Keith W., 3,658,379.
- Naylor, Richard Norman, to Concept, Inc. Nerve locator/stimulator. 3,664,329, 5-23-72, Cl. 128-2.1.
- Nazarov, Alexandr Sergeevich: See—
Kadomsky, Dmitry Evgenievich; and Nazarov, Alexandr Sergeevich, 3,668,507.
- Nazarov, Nikolai Grigorievich: See—
Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Nazarov, Nikolai Grigorievich; Tkach, Khaim Berkovich; Demin, Alexandr Ivanovich; and Vorobiev, Dmitry Ivanovich, 3,685,597.
- Nazarov, Vladimir Lvovich: See—
Itin, Artur Markovich; Zhed, Jury Mikhailovich; and Nazarov, Vladimir Lvovich, 3,650,583.
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Szpur, Roman, 3,696,807.
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Gradwohl, Donald R.; and Neal, Archie E., 3,703,060.
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Love, Dennis Anthony; Neal, David Patrick John; and Pidgeon, Eric, 3,641,001.
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Courtenay, Jerzy Leon; and Neal, Francis John, 3,631,944.
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Johanson, Lynn M.; Jones, Chester G.; Neal, Harold D.; and Redman, Samuel A., 3,636,868.
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- Neal, Warren D.: See—
Wooten, Robert D.; Neal, Warren D.; and Einfeldt, George J., 3,669,245.
- Neal, Warren D., to Aerojet-General Corporation. Sprocket drive tensioning mount for conveyors. 3,647,050, 3-7-72, Cl. 198-203.
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Pollock, Floyd M., Jr.; and Neal, William J., 3,656,552.
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Sinclair, Alex H.; Kozowyk, Ted; Reynolds, Ralph K.; Neargarder, Robert F.; and Edson, Robert H., 3,642,332.
- Neargardner, Robert F.: See—
Otto, Robert J.; Sinclair, Alex H.; Reynolds, Ralph K.; and Neargardner, Robert F., 3,680,924.
- Nearhoof, George L.: See—
Kirby, Herbert D.; Nearhoof, George L.; and Glenn, Culler Jimmie, 3,685,900.
- Neary, Richard William, to Atlantis Machine Tool Developments Limited. Bar stock feed mechanism. 3,650,412, 3-21-72, Cl. 214-1.5.
- Neary, Robert J.: See—
Rohls, Marvin K.; Neary, Robert J.; Rosenberg, Robert B.; Kardas, Alan; and Staats, William R., 3,695,250.
- Rohls, Marvin K.; and Neary, Robert J., 3,702,156.
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- Neathway, Graham Albert: See—
Livermore, Frederick C.; and Neathway, Graham Albert, 3,674,659.
- Neaville, Arthur W.: See—
Alexander, Gilbert L.; Neaville, Arthur W.; and Mayfield, William A., 3,647,026.
- Nebash, Stanley P.: See—
Strange, John P.; Nebash, Stanley P.; McInnes, Alexander C.; and McConnaughey, Paul W., 3,686,835.
- Nebe, Erich: See—
Merger, Franz; Platz, Rolf; and Nebe, Erich, 3,673,258.
- Nebel, Franz P. Apparatus for removing moisture. 3,669,012, 6-13-72, Cl. 100-121.000.
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Foster, Thomas V.; and Nebelung, Herman H., 3,653,870.

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- Neben, Luebeck Wilhelm: See—
Baumeyer, Martin; and Neben, Luebeck Wilhelm, 3,693,827.
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- Nebold, Jerome I.: See—
Fritts, Russell A.; and Nebold, Jerome I., 3,673,921.
- Neburg, Herbert: See—
Rosch, Helmut; Neburg, Herbert; and Schlenz, Erich, 3,689,858.
- Nebytov, Anatoly Mitrofanovich: See—
Kharitonov, Gennady Grigorievich; Nebytov, Anatoly Mitrofanovich; Doroshin, Sergei Mikhailovich; and Alimova, Mariana Sergeevna, 3,704,865.
- Necchi, Societa per Azioni: See—
Bianchi, Nereo, 3,653,345.
- Necchi S.p.A.: See—
Bianchi, Nereo, 3,653,347.
- Bianchi, Nereo, 3,667,410.
- Bianchi, Nereo, 3,691,969.
- Perlino, Silvano, 3,635,412.
- Perlino, Silvano, 3,667,411.
- Perlino, Silvano, 3,677,210.
- Sillano, Pietro, 3,693,063.
- Nechaev, Ivan Petrovich: See—
Frolov, Jury Fedorovich; Nechaev, Ivan Petrovich; Basalaev, Anany Maximovich; Bedarev, Jury Dmitrievich; and Golikov, Viktor Valerjanovich, 3,697,660.
- Salmin, Valery Vasilievich; and Nechaev, Ivan Petrovich, 3,683,095.
- Nechaeva, Tatyana Georgievna: See—
Strelets, Khaim Lipovich; Chesnokov, Alexandr Sergeevich; Devyatkin, Vladimir Nikolaevich; Tatakin, Alexandr Nikolaevich; Krasikov, Evsei Dmitrievich; Leonova, Ljudmila Sergeevna; Medvetskaya, Galina Arkadievna; and Nechaeva, Tatyana Georgievna, 3,676,323.
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Laluf, Rene; and Nechtschein, Jacqueline, 3,686,094.
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Goeskel, Helmut, 3,680,658.
- Neddenriep, Donald O.: See—
Breslin, Mary Anne; Cogar, George R.; Lee, Charles A.; Neddenriep, Donald O.; Romeo, Albert J.; Sevilla, Ernesto G.; and Sekse, Torkjell, 3,670,144.
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Moller, Torben Torsbjerg; Nedenskov, Poul; and Rasmussen, Henning B., 3,635,949.
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Kuyt, Cornelis, 3,682,473.
- Nederlandse Bewoird Maatschappij N.V.: See—
Wilhelmi, Werner Alfred, 3,644,251.
- Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek: See—
Fontijn, Leendert Antonius, 3,664,843.
- Le Poole, Jan B.; Fontijn, Leendert A.; and Bok, Alfred B., 3,638,231.
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Van Der Wijden, Franciscus Theodorus Maria, 3,670,830.
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Volbeda, Johan H., 3,673,808.
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Jansz, Joost Werner, 3,664,142.
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De Jong, Arie N., 3,652,789.
- Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid: See—
Boose, Cesar Adrianus; and Reidt, Maarten Johan, 3,642,591.
- Hirs, Gilles Gerardus, 3,655,248.
- Hirs, Gilles Gerardus, 3,656,819.
- Scheltus, Paulus I.T., 3,666,815.
- Slingerland, Peter, 3,656,277.
- Turnhout, Jan Van, 3,696,505.
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Popinski, Leonard G., 3,643,835.
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Timmermans, Henri Joseph, 3,652,067.
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Gruzdev, Valentin Anatolievich; Skvortsov, Boris Vasilievich; Propkopenko, Nikolai Vasilievich; and Nedzvetsky, Evgeny Alexandrovich, 3,636,396.
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Peacock, Dixon W.; and Needham, Riley B., 3,680,634.
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Yurkoski, Frank R.; Coyle, Edward L.; Needham, Robert F.; and Rollins, Dallas W., 3,687,087.
- Needham, Robert L., to Continental Radiant Glass Heating Corporation. Radiant heater. 3,691,345, 9-12-72, Cl. 219-345.000.
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Sanders, Norman Thomas, 3,681,822.
- Young, George, 3,654,678.
- Needles, Howard L.: See—
Diamond, Martin J.; and Needles, Howard L., 3,681,312.
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- Diamond, Martin J.; and Needles, Howard L., 3,690,813.
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- Neef, Hiltraud: See—
Muller, Richard; and Neef, Hiltraud, 3,658,868.
- Neefe, Charles W. Method for making aspheric convex surfaces. 3,641,717, 2-15-72, Cl. 51-284.
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Peters, Karl-Heinz; and Neeff, Rutger, 3,699,126.
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Siebert, Hans Joachim; and Neelen, Gregorius Theodorus Maria, 3,667,349.
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Weisz, Herman S.; Scheffler, Bernard; and Neely, Lester W., 3,644,140.
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Nostrand, William G.; and Nelson, Clifford G., 3,680,286.
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Makarov, Gleb Nikolaevich; Zhitov, Boris Nikolaevich; Zagorets, Anatoly Mikhailovich; Korolev, Jury Germanovich; Syskov, Konstantin Ivanovich; Filonenko, Jury Yakovlevich; Dvorin, Semen Semenovich; Lerner, Ruvim Zinovich; Mustafin, Fuat Akhtemovich; Semnov, Alexandr Semenovich; Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich, 3,667,746.
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Foti, Sam J.; and Neff, Charles Y., 3,682,203.
- Neff, Dean O. Apparatus for mounting and positioning of excavating devices. 3,669,285, 6-13-72, Cl. 214-138.00c.
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Derr, Donald B.; Neff, Gordon W.; and Sambucetti, Carlos J., 3,707,455.
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Cardarelli, Nathan F.; and Neff, Harry F., 3,639,583.
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Oi, Kazuo; and Negishi, Katuo, 3,667,600.
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Hori, Shin; Inoue, Tomiyoshi; Yamamoto, Shozo; Tataru, Kazuo; Kitagawa, Mashi; Watanabe, Masaru; Okada, Yukihiko; and Negishi, Naoki, 3,686,832.
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Tourtellotte, John F.; Negra, John S.; Warshaw, Abe; and Villiers-Fisher, John F., 3,699,683.
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Underwood, Michael John, 3,678,231.
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Vilkov, Fedor Nikolaevich; Negrimovsky, Mikhail Grigorevich; and Pasik, Alexei Nikolaevich, 3,631,661.
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Cumbo, Peter E.; Hart, James L.; Kao, Peter T.; and Negus, George T., 3,687,751.
- Gardner, Ray E.; Voelckers, William W.; and Negus, George T., 3,661,667.
- Negus, Malcolm: *See—*
Hall, Michael Edgar; and Negus, Malcolm, 3,637,549.
- Neher, Dieter: *See—*
Markert, Gerhard; Pennewis, Horst; Ross, Klaus; and Neher, Dieter, 3,661,880.
- Neher, Martin Duane: *See—*
Carter, J. Warne; and Neher, Martin Duane, 3,668,766.
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Chambers, Harry A.; and Nehls, Ronald, 3,657,851.
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Staudt, Markus, 3,660,802.
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Johnson, James C.; and Neider-Westermann, Winfried, 3,668,998.
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Milenkovic, Veljko; and Neidhardt, Glen L., 3,707,125.
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- Neidig, Klaus: *See—*
Duren, Rainer; and Neidig, Klaus, 3,656,098.
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Last, Jerold Alan; and Neidleman, Saul Lewis, 3,634,450.
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- Neier, Wilhelm: *See—*
Cherubim, Martin; Giehring, Horst; and Neier, Wilhelm, 3,703,531.
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- Neighbors, Ralph P., to Gulf Oil Corporation, mesne. Phenoxylanoylamidoxyalkanoic compounds. 3,660,475, 5-2-72, Cl. 260-519.000.
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Cassel, Thomas R., 3,653,696.
- Neil, Hugh G.: *See—*
Dabbs, Clyde Harwell; and Neil, Hugh G., 3,664,345.
- Neill, Cormac G.; and Smiley, Parker C., to Physics International Company. Temperature compensated hydraulic valve. 3,648,967, 3-14-72, Cl. 251-57.
- Neill, Henry R.: *See—*
Ganong, William L., Jr.; Bryant, Furnie S.; Neill, Henry R.; and Davies, Robert G., 3,648,027.

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Mackey, Richard C.; and Neill, W. James, 3,667,569.
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Schaffer, Harry G.; Neilson, Dan A.; and Poumakis, Eleuthere, 3,699,532.
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- Neisler Laboratories, Inc.: *See—*
Gray, Allan Poe, 3,691,169.
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Ryan, John H.; Lukes, Jerome A.; Neitzel, Ulrich E.; and Duyster, Hubert P. J., 3,634,041.
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Flint, Hans Gerhard; and Neitzel, Ulrich E. G., 3,679,376.
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Roth, Johann, 3,690,748.
- Nejedly, Peter T.: *See—*
Denoncourt, Gilles J.; and Nejedly, Peter T., 3,671,731.
- Nejib, Umid R.: *See—*
Rozelle, Donald S.; Rozelle, Ralph B.; and Nejib, Umid R., 3,668,450.
- Neki, Kazuya: *See—*
Kobayashi, Hidehiko; Sasaguri, Kiichiro; Oimachi, Irumagun; Neki, Kazuya; and Tanimura, Noboru, 3,689,623.
- Nekoosa Edwards Paper Company, Inc., mesne: *See—*
Steele, Clyde W., 3,663,483.
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- Nekrasov, Nikolai Nikolaevich; Blinichikov, Alexandr Lvovich; Kazansky, Vasily Leonidovich; Besedin, Alexandr Fedorovich; Krikunenko, Anatoly Philippovich; Makarov, Egor Maximovich; Zemskov, Alexei Lavrentievich; Afinogenov, Fridrikh Ivanovich; Kirichenko, ergei Pavlovich; and Kulikov, Alexei Andreevich, to Kuibyshevsky Filial Vsesojuznogo mauchno-issledovatel skogo instituta neftepererabatyvajuschel Promyshlennosti. Gas burner. 3,681,003, 8-1-72, Cl. 431-353.000.
- Nekrasova, Larisa Petrovna: *See—*
Bukovsky, Igor Pavlovich; Yakovlev, Pavel Borisovich; Gutterman, Kirill Davidovich; Perov, Alexandr Vasilievich; Zhukov, Vladimir Fedorovich; Nekrasova, Larisa Petrovna; and Ivanovsky, Jury Dmitrievich, 3,689,798.
- Nekton, Armas H. Game board with recording means. 3,703,293, 11-21-72, Cl. 273-136.00c.
- Nelboeck-Hochstetter, Michael: *See—*
Bergmeyer, Hans Ulrich; Haid, Erich; Nelboeck-Hochstetter, Michael; and Pelz, Otmir, 3,662,037.
- Haid, Erich; and Nelboeck-Hochstetter, Michael, 3,707,536.
- Nelco Corporation: *See—*
Schindler, Edgar C.; and McEachron, John C., 3,701,451.
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- Neller, William C.: *See—*
Jenkins, Peter J.; and Neller, William C., 3,640,371.
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Tittman, Jay; Nelligan, William B.; Wahl, John S.; and Sherman, Harold, 3,654,467.
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Nellis, Guy I.; and Wiesenhofer, Eugene E. (said Wiesenhofer assor. to said), 3,638,910.
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Nostrand, William G.; and Nelson, Clifford G., 3,680,286.
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- Nelson, Elmer F., and Nelson, Olive. Fishing rod holder. 3,704,000, 11-28-72, Cl. 248-42,000.
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- Nelson, Howard N., to Kimberly-Clark Corporation. Method of dispensing interfolded sheet material and package therefor. 3,700,138, 10-24-72, Cl. 221-51,000.
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- Hayes, Jerry R., 3,655,164.
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- Nelson, Lawrence B.: *See—*
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- Nelson, Lorne W. Multiple use sorting card. 3,672,499, 6-27-72, Cl. 209-80,500.
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- Nelson, Richard E., to Honeywell Inc. Balanced pressure regulator. 3,654,948, 4-11-72, Cl. 137-118.
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- Crandall, Stanley C.; Harris, Billy J.; and Nelson, Richard L., 3,662,924.
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- Nelson, Richard P.: *See—*
- Mathews, Victor M., Jr.; Nelson, Richard P.; and Lally, Eugene Brooks, 3,642,046.
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- Green, John L.; and Nelson, Robert, 3,673,546.
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- Clifford, Thomas J.; and Nelson, Robert C., 3,675,860.
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- Goff, James R., 3,691,689.
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- Nankee, Robert J.; Lamphere, Jack C.; and Nelson, Rodney A., 3,686,024.
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- Beasley, Robert W., 3,645,490.
- Nelson, Terence John: *See—*
- Bonyhard, Peter Istvan; and Nelson, Terence John, 3,701,132.
- Geusic, Joseph Edward; Nelson, Terence John; and Schinke, David Paul, 3,701,122.
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- Krass, Morton; and Nelson, Walter, 3,655,212.
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- Nelson, Richard L.; and Nelson, Walter P., 3,666,485.
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- Barber, Stephen W.; and Nelson, William F., 3,634,711.
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- Bodnar, Dean A.; Hinman, Charles W.; and Nelson, William J., 3,644,126.
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- Domin, Siegfried; and Nembhard, Roy, 3,697,971.
- Nemcansky, Jan; and Merta, Stanislav, to Prvni brnenska strojirna, oborovy podnik. Steam or gas damper with axial and radial baffle plates. 3,635,309, 1-18-72, Cl. 181-55.
- Nemec, Adolf: *See—*
- Kadera, Vaclav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemec, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, 3,647,312.
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- Sandor, Mirlos; Nyitray, Istvan; and Nemeth, Jozsef, 3,689,615.
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- Pierson, Edward D.; Wright, James C.; de Rozario, Carl C.; and Nemeth, Peter, 3,648,618.
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- Brumbaugh, Philip A.; Harrington, Richard H.; Nemier, Stanley E.; and Nielsen, Thomas C., 3,672,482.
- Nemilov, Evgeny Fedorovich: *See—*
- Vishnitsky, Alexandr Lazarevich; Shapiro, Lev Mironovich; Kazantsev, Evgeny Andreevich; Shvartsman, Benyamin Markovich; Shilov, Georgy Petrovich; Nemilov, Evgeny Fedorovich; Baisupov, Izmail Abdulovich; Masterov, Vasily Fomich; and Rumyantsev, Alexandr Steanovich, 3,705,848.
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- Harrison, Robert R., 3,657,889.
- Nemoede, Paul A.: *See—*
- Michetti, Louis C.; Haines, Grover C.; Taylor, William F.; and Nemoede, Paul A., 3,633,814.
- Nemoto, Gentaro: *See—*
- Takahashi, Akira; and Nemoto, Gentaro, 3,639,300.

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Soeda, Shigeki; and Nemoto, Hidetaro, 3,695,341.
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Tateno, Hideo; and Nemoto, Kuniharu, 3,671,339.
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Ford, Emory A.; and Nemphos, Speros P., 3,663,656.
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Nash, Donald H.; Nenninger, Theodore P.; and Prescott, Robert E., 3,676,607.
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Toperzer, John W.; Neogi, Shibendra P.; and Beachy, Dale K., 3,693,954.
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Magnusson, Bengt Gunnar; and Neovius, Theodor Gosta, 3,683,117.
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Boulin, Jacques R.; Bertin, Marcel R.; and Nepomiaschty, Alexis, 3,636,481.
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Smith, Edward C.; and Kimball, Carl P., 3,631,709.
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Haener, Franz, 3,681,631.
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Conley, Walter R.; and Culp, Gordon L., 3,640,387.
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- Neri, Omero; and Todd, Charles E., to Uniroyal, Inc. Fold-over device for radial ply breaker material. 3,659,836, 5-2-72, Cl. 270-86.
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- Nervik, Torbjorn, to ESB Incorporated. Process for removal of nitrates from sintered nickel plaques impregnated with nickel salts. 3,647,547, 3-7-72, Cl. 136-75.
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- Nerz, Joseph E., to Extracorporeal Medical Specialties, Inc. Separable surgical needle. 3,677,243, 7-18-72, Cl. 128-214.400.
- Nesbitt, Ethan Allen: *See*—
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- Nesbitt, Loyd B.; and Fleming, Robert B., to General Electric Company. Ultra low temperature thermal regenerator. 3,692,099, 9-19-72, Cl. 165-10.000.
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- Nesbitt, Sydney M. Suspension file. 3,639,020, 2-1-72, Cl. 312-184.
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- Nesheim, John G. Clip for belt buckle. 3,633,249, 1-11-72, Cl. 24-77.
- Ness, Leif A.; and Thomas, Edmund P., to Air Products and Chemicals, Inc. Method and apparatus for producing refrigeration. 3,657,898, 4-25-72, Cl. 62-38.
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- Ness, Richard A. Reinforcing element for muscles. 3,646,615, 3-7-72, Cl. 3-11.
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- Neseth, Clinton A. Manure transfer and storage system. 3,687,311, 8-29-72, Cl. 214-16.00r.
- Nessler, Charles A. Play-by-chord slide rule. 3,691,895, 9-19-72, Cl. 84-471.000.
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- Nestel, Stephan C.: *See*—
Fisher, Richard L.; Nestel, Stephan C.; and Niemi, John C., 3,685,238.
- Nester, Dianne L.: *See*—
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- Nester, Edward Oskar: *See*—
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- Nester, Francis M., to Keystone Industries, Inc. Gate latching mechanism. 3,707,126, 12-26-72, Cl. 105-282.00p.
- Nester, Henry H.: *See*—
Mason, Daniel W.; and Nester, Henry H., 3,707,499.
- Nesterova, Maria Petrovna: *See*—
Gerchenova, Nina Andreevna; Gurchich, Lev Moiseevich; Zelen-skaya, Olga Ivanovna; Koretsky, Alexandr Filipovich; Machulsky, Petr Alexeevich; Nesterova, Maria Petrovna; Selifanova, Evdokia Prokofievna; Taubman, Arkady Borisovich; and Furaeva, Ekaterina, 3,68,099.
- Nesterovsky, Vsevolod Vladimirovich; Khmelnskiy, Julius Lazarevich; Karzhev, Vladimir Ivanovich; Silchenko, Ekaterina Ivanovna; Goncharova, Nina Vasilievna; Svirina, Valentina Petrovna; Maikova, Margarita Viktorovna; and Murashkina, Marfa Markovna. Prodes for the production of alkylaryl succinic anhydrides. 3,649,496, 3-14-72, Cl. 204-162.
- Nesteruk, Edward P., to Owens-Illinois, Inc. Metal oxide coatings on glass. 3,645,778, 2-29-72, Cl. 117-93.4.
- Nestle, Alfred C., to Texaco Inc. Corrosion control. 3,687,608, 8-29-72, Cl. 21-2.500.
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- Netherton, Leslie T.: *See*—
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- Netherwood, Paul H., to Sprague Electric Company. Multi-layer beam-lead wiring for semiconductor packages. 3,684,818, 8-15-72, Cl. 174-52.00s.
- Neti, Radhakrishna M.: *See*—
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- Neto, Eduardo de Lima Castro. Valve with rotary elements. 3,682,439, 8-8-72, Cl. 251-315.000.
- Nettco Corporation: *See*—
Lennon, John J., 3,700,294.
- Nette, Friedrich Wilhelm. Crushing device. 3,687,379, 8-29-72, Cl. 241-147.000.
- Netter, Jean: *See*—
Kroeger, Dietrich, 3,637,171.
- Netter, Pierre, to L'Oreal. Device for displaying sample locks of dyed hair. 3,702,508, 11-14-72, Cl. 35-59.000.
- Netti, Anthony; and Bussiere, Douglas, to Davis and Furber Machine Company. Rotating spinning ring. 3,664,112, 5-23-72, Cl. 57-120.
- Nettleship, Robert, to Pye Limited. Temperature compensated amplifier employing complementary pairs of transistors. 3,683,112, 8-8-72, Cl. 179-1.00a.
- Nettleton, Donald E., Jr.; Bush, James A.; and Bradner, William T., to Bristol-Myers Company. Kundrymycin and process for its production. 3,663,691, 5-16-72, Cl. 424-121.
- Nettleton, Frank S.: *See*—
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- Netzer, Theodor; and Block, Hans-Jurgen, to Nitrochemie GmbH. Caseless propellant charge containing nitrocellulose in a synthetic resin. 3,676,233, 7-11-72, Cl. 149-19.000.
- Neu, Helmut: *See*—
Fiebelmann, Peter; and Neu, Helmut, 3,668,070.
- Neu, Hermann: *See*—
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- Hornig, Lothar Heinz; Neu, Hermann; and Probst, Otto, 3,642,885.
- Neu, Wallace I. Device for measuring changes in radius of rubber tired. 3,707,701, 12-26-72, Cl. 340-58.000.
- Neubauer, Ewald: *See*—
Kleinagauer, Otmir; Cerwenka, Peter; and Neubauer, Ewald, 3,667,538.
- Neubauer, Jerry L.: *See*—
Eros, Peter S.; and Neubauer, Jerry L., 3,652,032.
- Neubeck, William H., Jr., to Bloomer-Fiske, Inc. Loading table for use with continuous production of wieners. 3,674,163, 7-4-72, Cl. 214-309.000.
- Neuber, Ralph E., to Sylvania Electric Products, Inc. Clamp with surge protection. 3,659,153, 4-25-72, Cl. 317-16.000.
- Neuberger, Edmond Donald; and Junker, Thomas Joseph, to Calgon Corporation. Sampling system for stack gas. 3,641,821, 2-15-72, Cl. 73-421.5.
- Neubert, Eckart: *See*—
Dietrich, Manfred; Eger, Helmut; Neubert, Eckart; and Kruger, Wolfgang, 3,689,332.
- Neubert, Terry C., to General Tire & Rubber Company, The. Preparation of 1,2-dibromo-1,1,2-trichloroethane. 3,637,874, 1-25-72, Cl. 260-658.
- Neubold, Kurt: *See*—
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- Neudecker, Karl; and Winkler, Friedrich, to Agfa-Gevaert Aktien-gesellschaft. Photographic apparatus with adjustable filter. 3,662,666, 5-16-72, Cl. 95-11.00l.
- Neudecker, Karl; and Theer, Anton, to Agfa-Gevaert Aktien-gesellschaft. Photographic apparatus with means for adjusting the exposure control in dependency on the sensitivity of film. 3,667,362, 6-6-72, Cl. 95-31.0fs.
- Neudek, Rudolph Otto: *See*—
Rachlin, Joel R.; and Neudek, Rudolph Otto, 3,673,945.
- Neudorfer, David H.; Crookston, Ronald W.; and Bertolino, August U., to Westinghouse Electric Corporation. Readily transportable circuit breaker or two-piece segmented frame construction and two-position operating mechanism housing. 3,662,128, 5-9-72, Cl. 00-48.
- Neue Argus Gesellschaft m.b.H.: *See*—
Kaiser, Rudolf, 3,674,326.
- Neuenburg, Henry. Motor-driven chiseling device. 3,706,474, 12-19-72, Cl. 299-38.000.
- Neuenhain, Taurus: *See*—
Radscheit, Kurt; Kelkheim, Taurus; Stache, Ulrich; Haede, Werner; Hofheim, Taurus; Fritsch, Werner; Neuenhain, Taurus; and Lindner, Ernst, 3,681,344.
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- Neufang, Karl: *See*—
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- Hildebrand, Dietrich; and Neufang, Karl, 3,679,354.
- Neufeld, Harold A.: *See*—
Witz, Samuel; Carleton, Lee T.; Anderson, Howard H.; Moyer, Rudolph H.; and Neufeld, Harold A., 3,690,837.
- Neufeld, John W.: *See*—
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- Neufeld, John W., to Massey-Ferguson Industries Limited. Desk arrangement. 3,666,339, 5-30-72, Cl. 312-277.000.
- Neuffer, Ingemar; and Waldmann, Hermann, to Siemens Aktien-gesellschaft. Device for the control of line-commutated converters. 3,683,262, 8-8-72, Cl. 321-5.000.
- Neugebauer, Constantine A.: *See*—
Burgess, James F.; and Neugebauer, Constantine A., 3,691,537.
- Neugebauer, Gerhard. Means for mounting an instrument on a panel. 3,689,013, 9-5-72, Cl. 248-27.000.
- Neugebauer, Heinz, to Werkzeugmaschinenfabrik Adolf Waldrich Coburg. Worm gear for driving machines-too slides, in particular in milling machines. 3,659,474, 5-2-72, Cl. 74-424.6.
- Neugebauer, Walter: *See*—
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- Illigen, Alfred; and Neugebauer, Walter, 3,674,430.
- Sperka, Gerhard; and Neugebauer, Walter, 3,658,471.
- Neugebauer, Wendell: *See*—
Mihran, Theodore G.; and Neugebauer, Wendell, 3,644,778.
- Neugold, Harry, Jr.: *See*—
Sudrabn, Leon P.; and Neugold, Harry, Jr., 3,691,040.
- Neugroschel, Eric; and Paterson, Alexander Scott, to Hoffmann-La Roche Inc. Analyzer processing and recording technique. 3,703,337, 11-21-72, Cl. 356-178.000.
- Neugroschl, Ernst J., to Goodyear Tire & Rubber Company, The. Tire curing apparatus monitoring and control. 3,659,974, 5-2-72, Cl. 425-29.
- Neuhardt, Benjamin John, Jr. Mechanical traction. 3,654,921, 4-11-72, Cl. 128-75.
- Neuhaus, Hans Wilhelm; and Verweel, Jan, to U.S. Philips Corpora-tion. Storage device. 3,702,993, 11-14-72, Cl. 340-174.0yc.
- Neuhaus, Herbert M., to United States of America, Navy. Extrusion press and barrel. 3,674,407, 7-4-72, Cl. 425-378.000.
- Neuhauser, Hans; Benz, Helmut; and Gukelberger, Werner, to Gustav Neuhauser Präzisionswerkzeugfabrik O.M.G. Apparatus for helically machining a blank of varying diameter. 3,673,919, 7-4-72, Cl. 90-11.620.
- Neuhouser, Donald E., to General Electric Company. Mine power system ground continuity check circuit. 3,676,739, 7-11-72, Cl. 317-18.00c.
- Neuklis, Winifred A.: *See*—
Creger, Paul L.; and Neuklis, Winifred A., 3,707,566.
- Neumaier, Hubert: *See*—
Sennewald, Kurt; Ohorodnik, Alexander; and Neumaier, Hubert, 3,641,164.
- Neuman, Charles E.; and Shank, Leland R., to Ohio Decorative Products, Inc. Open coil electric heater. 3,697,727, 10-10-72, Cl. 219-532.
- Neuman, John G., to General Motors Corporation. Frequency fol-lowing voltage controlled filter providing substantially constant output amplitude. 3,644,847, 2-22-72, Cl. 333-17.
- Neuman, Marcel, to C.N.M.P. Berthiez. Device for correcting bend-ing of a horizontal machine-tool support element. 3,656,860, 4-18-72, Cl. 408-234.
- Neuman, Marcel, to Societe Cnmp-Berthiez. Device for machining inside spherical surfaces especially for vertical lathe. 3,688,611, 9-5-72, Cl. 82-12.000.
- Neuman, Marcel L.; and Colomb, Louis F. Method and apparatus of mounting and securing a rectilinear element on a support member of a machine. 3,685,116, 8-22-72, Cl. 29-200.00b.
- Neumann, Barbara Susan; and Sansom, Keith Geoffrey, to Laporte Industries Limited. Composition and process for making stable aqueous sol of synthetic silicate. 3,654,176, 4-4-72, Cl. 252-313.

- Neumann, Barbara Susan, to Laporte Industries Limited. Synthetic clay-like minerals of the smaltite type and method of preparation. 3,671,190, 6-20-72, Cl. 23-111.000.
- Neumann, Bernhard, to General Motors Corporation. Seat belt reel. 3,666,198, 5-30-72, Cl. 242-107.4.
- Neumann, Charles G.: See—
Nitschneider, Robert M.; Neumann, Charles G.; and Krueger, Harvey R., 3,677,461.
- Neumann, Dietrich; and Pattberg, Georg, to Vereinigte Flugtechnische Werke-Fokker GmbH. Testing of redundant control systems. 3,680,069, 7-25-72, Cl. 340-214.000.
- Neumann, Don B., to GCO, Inc. Holographic apparatus with automatic control system for maintaining constant phase relation between reference and object beams. 3,659,947, 5-2-72, Cl. 356-106.
- Neumann, Edward W.; and Borowski, Richard, to Loctite Corporation. Process for impregnating porous metal articles. 3,672,942, 6-27-72, Cl. 117-62.200.
- Neumann, Fred W.: See—
Dalman, Gary W.; and Neumann, Fred W., 3,692,846.
- Neumann, Friedmund: See—
Engelfried, Otto; Neumann, Friedmund; and Wiechert, Rudolf, 3,641,013.
- Neumann, Gerhard, to Delbag-Luftfilter Gesellschaft mit beschränkter Haftung. Roller strip filter for purifying air or gases. 3,695,008, 10-3-72, Cl. 55-354.000.
- Neumann, Gerhard Max. Air filter. 3,690,045, 9-12-72, Cl. 55-356.000.
- Neumann, Gerhard Max, to Delbag-Luftfilter Gesellschaft mit beschränkter Haftung. Pocket filter for air and gas purification. 3,691,736, 9-19-72, Cl. 55-354.000.
- Neumann, Gernot, to Hanning Elektro-Werke Robert Hanning. Drive units for automatic washing machines. 3,662,622, 5-16-72, Cl. 74-752.
- Neumann, Hans; and Schnee, Walter. Dough dividing machine. 3,658,013, 4-25-72, Cl. 107-15.
- Neumann, Herbert: See—
Scherzberg, Herbert; Neumann, Herbert; Schnegg, Robert; and Dietrich, Theo, 3,638,410.
- Neumann, Johann: See—
Klein, Gunter; and Neumann, Johann, 3,651,618.
- Neumann, John W.: See—
Minbiole, Louis J., Jr.; Clark, Chester G.; and Neumann, John W., 3,664,354.
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- Neumann, Jorg: See—
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- Hofmann, Christian; and Neumann, Jorg, 3,679,294.
- Neumann, Karl Josef; and Ostbringhaus, Otto, to Moeller & Neumann GmbH. Transfer device for metal plates. 3,687,446, 8-29-72, Cl. 271-63.000.
- Neumann, Klaus, to Moeller & Neumann GmbH. Billet feed system for rolling mills. 3,675,909, 7-11-72, Cl. 266-13.000.
- Neumann, Leopold: See—
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- Neumann, Malcolm A.; and Hunsberger, Arnold, to Cubic Corporation. Multi-level automatic storage and recovery system for aircraft. 3,675,378, 7-11-72, Cl. 52-65.000.
- Neumann, Peter: See—
Quante, Hermann; Neumann, Peter; and Rose, Walter, 3,636,240.
- Neumann, Robert K. F.: See—
Moon, Clive D.; and Neumann, Robert K. F., 3,658,755.
- Neumann, Robert P.: See—
Conn, Charles E., Jr.; and Neumann, Robert P., 3,668,769.
- Neumann, Wolfram: See—
Ranz, Erwin; Von Rintelen, Harald; Neumann, Wolfram; and Muller, Gerhard, 3,681,075.
- Ranz, Erwin; Von Rintelen, Harald; Schutz, Heinz-Dieter; Muller, Gerhard; and Neumann, Wolfram, 3,694,208.
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- Neumayer, John Joseph: See—
Guehler, Paul F.; and Neumayer, John Joseph, 3,642,444.
- Neumayer, Josef: See—
Bleibtreu, Alexander; and Neumayer, Josef, 3,635,319.
- Neumeier, Gunter F.; and Altenburger, Otto, to Stromberg-Carlson Corporation. Line scanner and marker arrangement using group scanning. 3,699,263, 10-17-72, Cl. 179-18.0ff.
- Neumeier, Karl E., to Programmed & Remote Systems Corporation. Removable eye bolt for lifting heavy objects. 3,680,906, 8-1-72, Cl. 294-89.000.
- Neumeier, Kurt: See—
Horn, Josef; Neumeier, Kurt; and Scharfenberger, Franz, 3,693,744.
- Neumeier, Leander A.; and Risbeck, John S., to United States of America, Interior. Process for improving creep resistance of zinc-copper alloys. 3,649,377, 3-14-72, Cl. 148-11.5.
- Neumeister, Alvin W., to Goodyear Tire & Rubber Company, The. Cord creel. 3,687,394, 8-29-72, Cl. 242-131.000.
- Neumeister, Otto. Single-stage and multi-stage hydraulic cylinders, with protection against twisting. 3,631,765, 1-4-72, Cl. 92-52.
- Neumeyer, John L.: See—
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- Neumunstersche Maschinen- und Apparatebau Gesellschaft m.b.H.: See—
Bauch, Ernst; and Eigenwald, Bruno, 3,651,642.
- Neumunz, M., & Son, Inc.: See—
Koref, Ernest; and Petty, Elijah E., 3,667,920.
- Neuner, Otto: See—
Dorlars, Alfons; and Neuner, Otto, 3,666,758.
- Neuner, Otto; Dorlars, Alfons; Schellhammer, Carl-Wolfgang; and Berendes, Otto, to Farbenfabriken Bayer Aktiengesellschaft. 7-v-Triazolyl-(2)-coumarin compounds. 3,646,052, 2-29-72, Cl. 260-308.
- Neunhoeffer, Otto: See—
Lehmann, Gunter; Neunhoeffer, Otto; Roselius, Wilhelm; and Vitzthum, Otto, 3,663,581.
- Neurath, Georg; Dunger, Michael; and Wichern, Herbert. Treating tobacco. 3,651,816, 3-28-72, Cl. 131-144.
- Neurath, George; Gewe, Jürgen; and Dunger, Michael, to Haarmann & Reimer Gesellschaft mit beschränkter Haftung. Smokable products and a process for their production. 3,651,815, 3-28-72, Cl. 131-2.
- Neureiter, Norman P.: See—
Bown, Delos E.; Neureiter, Norman P.; Schutze, Henry G.; and Williams, Herschel C., 3,691,132.
- Schultz, Henry G.; Williams, Herschel C.; Neureiter, Norman P.; and Bown, Delos E., 3,655,718.
- Neureuther, Horst, to Gebr. Hennig GmbH. Apparatus for forming an articulated track. 3,680,927, 8-1-72, Cl. 305-35.00r.
- Neuro-Data, Inc.: See—
John, Erwin Roy, 3,705,297.
- John, Erwin Roy; and Laupheimer, Robert, 3,706,308.
- Neuroth, Charles George: See—
Pepe, Anthony Enrico; Lengnick, Guenther Fritz; and Neuroth, Charles George, 3,661,816.
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Foldes, Gabriel F.; Neve, Peter W.; and Corbridge, Peter J., 3,659,559.
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Voitsekhovskiy, Bogdan Vyacheslavovich; Kuvshinov, Viktor Alexandrovich; Plaxin, Vladimir Nikolaevich; and Nevsky, Vyacheslav Alexandrovich, 3,668,914.
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Cook, Francis W., Jr., 3,635,628.
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- Paulson, Donald C., 3,698,845.
- Reed, John F., 3,636,424.
- Wolf, Heinz K., 3,651,739.
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Talmage, Charles Robert, 3,668,951.
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Freedman, David; and Tick, Sanford J., 3,649,557.
- Freedman, David, 3,694,112.
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Blount, George W., 3,670,441.
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Kasahara, Riichiro, 3,686,655.
- Watanabe, Koichi, 3,635,282.
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Berger, Ralph; and Satterlee, Howard A., 3,661,076.
- New England Merchants National Bank, mesne: See—
Berger, Ralph; and Satterlee, Howard, 3,665,850.
- Frant, Martin S.; and Ross, James W., 3,672,962.
- Ross, James W.; and Frant, Martin S., 3,691,047.
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Heller, Adam, 3,644,211.
- New England Nuclear Corporation, mesne: See—
Deutsch, Marshall E.; Mead, Louis W.; and Nagy, Zoltan, 3,657,541.
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Robinson, Walter B., 3,657,797.
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Phillips, Larry B., 3,653,479.
- New Jersey Machine Corporation: See—
Von Hofe, George W., 3,697,300.
- New Jersey Zinc Company, The: See—
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Konishi, Mikio, 3,703,742.
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Smith, George Armstrong; and MacLeod, Donald Simon, 3,673,062.
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Ito, Saburo; and Ezaki, Shingo, 3,634,721.
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- Sumi, Seiji; and Kaneda, Isao, 3,636,374.
- Yoshikawa, Sadayoshi, 3,647,950.
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Ernick, Frederick G.; New, Thorndike C. T.; and Walczak, Donald A., 3,648,123.
- New Twist Connector Corporation: See—
Phillips, Delbert L.; and Feightner, Lewis Clark, 3,707,614.
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Dill, James M., 3,658,232.
- New York Toy Corporation: See—
Rubin, Herbert, 3,672,672.
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Gordon, Roslyn, 3,682,109.
- Sayre, Edward Vale, 3,704,159.
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Sikkema, Eeme, 3,651,613.
- Stringer, Philip Roland; and Gatland, Eric Charles, 3,644,931.
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Hollis, John Gordon, 3,662,876.
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Stephenson, Earle W.; Newberry, James G.; and Hazzard, Robert C., 3,659,793.
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Burns, William C.; Robinson, Donald; and Newberry, Sidney H., 3,692,670.
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McGready, Victor Ralph; and Newbery, Sidney Patrick, 3,666,952.
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Dunham, Kenneth R.; Newcomb, Richard A.; and Yost, Marshall E., 3,702,766.

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Wadsworth, Francis T.; Newcombe, Jack; and Welch, Floyd T., 3,652,640.
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Greenbaum, Sheldon B.; Weil, Edward D.; and Newcomer, Jack S., 3,687,831.
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Thorne, John Paul, 3,632,949.
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Falk, Mervin L., 3,633,038.
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Hollingsworth, Ashley J., 3,638,880.
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Pagel, Armin B., 3,667,825.
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King, James Frank; Beamon, Howard L.; Lathery, Willie M.; and Newlen, Kenneth W., 3,690,276.
- Newman, Albert K., to Textron, Inc. Tensioner for saw chain. 3,636,995, 1-25-72, Cl. 143-32.
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Spira, John Ralph; and Newman, Anthony John, 3,684,959.
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Richardson, Harold; and Newman, Bruce D., 3,700,064.
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Falck-Muus, Rolf; Newman, Daniel J.; and Atkin, Sydney, 3,649,173.
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Franz, Maurice F.; Herr, Charles H.; Newman, Harry B.; and Webber, Philip S., 3,667,309.
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Shire, Harold; Newman, Ira R.; and Allison, Robert S., 3,632,144.
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Johnson, Alan J.; Newman, Jack; and Karpatkin, Margaret Howell, 3,652,530.
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United States of America, National Aeronautics and Space Administration, 3,663,521.
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Slade, Albert E.; and Newman, John J., 3,632,898.
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Chapman, Duane K.; Green, William S.; and Newman, John W., 3,642,926.
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Gustafson, Walter R.; McMillen, William H.; Kemper, Jackson, Jr.; and Newman, Leonard, 3,688,312.
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- Newman, Philip G., to Hercules Incorporated. Method for making explosive oil impregnated sensitizer gelled aqueous explosive slurry. 3,637,445, 1-25-72, Cl. 149-50.
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Goldberg, Norman; and Newman, Roger, 3,651,504.
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Fellers, John F.; Labana, Santokh S.; and Newman, Seymour X., 3,661,828.
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Sung, Rodney L.; Dille, Kenneth L.; and Newman, Stanley R., 3,658,497.
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- Newmark, Harold Leon, to Hoffmann-La Roche Inc. Antibacterial medicinal compositions. 3,703,580, 11-21-72, Cl. 424-181.000.
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Jeans, Michael Anthony and; and Baines, Frank Oxley, 3,680,589.
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Yannopoulos, John C., 3,674,463.
- Newnes, Ray William. Lumber stacker stick placer. 3,643,621, 2-22-72, Cl. 214-8.5.
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- Newport News Shipbuilding and Dry Dock Company: *See*—
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- Newport Pharmaceuticals, Inc.: *See*—
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- Newport, Richard A. Capping apparatus. 3,672,540, 6-27-72, Cl. 221-63.000.
- Newsbaum, Robert William: *See*—
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- Newstead, Charles, to Girling Limited. Caliper disc brake and resilient mounting means therefor. 3,656,590, 4-18-72, Cl. 188-73.4.
- Newstead, Charles; and Moss, Norman S., to Girling Limited. Automatic adjuster for shoe drum brake. 3,662,865, 5-16-72, Cl. 188-196.
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- Newstead, Charles, to Girling Limited. Vehicle wheel brakes. 3,682,281, 8-8-72, Cl. 188-265.000.
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- Newstader, Robert. Siphoning apparatus. 3,682,193, 8-8-72, Cl. 137-151.000.
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- Newton, Alwin B., to Borg-Warner Corporation. Induction unit control system. 3,650,320, 3-21-72, Cl. 165-40.
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- Newton, Charles V. Method and means for pre-applying glue and reactivating it for continuous form collating. 3,682,740, 8-8-72, Cl. 156-291.000.
- Newton, Clifford, to Imperial Chemical Industries Limited. Apparatus for producing striped colorations on dyeable substrates in continuous form. 3,667,258, 6-6-72, Cl. 68-205.00r.
- Newton, Dale P., to Aero Union Corporation. Dual tank air borne fire retardant dispensing system. 3,698,480, 10-17-72, Cl. 169-1.00a.
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- Newton, Donald A.: *See*—
Moore, Arnold G.; and Newton, Donald A., 3,693,631.
- Newton Electronic Systems, Inc.: *See*—
Markow, Elliott W., 3,632,867.
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- Newton, Gary E.: *See*—
Modeen, James H.; and Newton, Gary E., 3,689,558.
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Jenkins, Victor F.; Newton, Geoffrey P.; and Beeken, Michael J., 3,682,865.
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- Newton, George R., to Omoco Production Company. Heave-proof arctic piling. 3,703,812, 11-28-72, Cl. 61-53.000.
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- Newton, Robert A.; and Ballard, Donnell A., to Dow Chemical Company. The. Process for making phosphorus-containing polyether polyols and product of the process. 3,639,543, 2-1-72, Cl. 260-953.
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- Newton, N. Keith, to Thrive Centers, Inc., mesne. Aeration device. 3,658,305, 4-25-72, Cl. 261-92.
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- Newyear, Edward G., to PPG Industries, Inc. Method of preparing tetramethyllead. 3,642,849, 2-15-72, Cl. 260-437.
- Nexsen, William E., Jr.: See—
Coengen, Frederic H.; and Nexsen, William E., Jr., 3,677,889.
- Nexus, Inc.: See—
Flanagan, William H., 3,668,610.
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Sykes, Christopher; and Denroche, Charles H. P., 3,664,627.
- Ney, J. M., Company, The: See—
Burnett, Arthur Peter, 3,666,540.
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Kulig, Frank M., 3,692,088.
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- Neyens, Wayne E.: See—
Gottlieb, Alvin J.; Neyens, Wayne E.; Smith, Robert T.; and Garbark, Roman F., 3,675,927.
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Lejeune, Pierre, 3,631,982.
Lejeune, Pierre, 3,664,096.
- Ng, Daniel Y., to Purex Corporation Ltd. Alkaline bath for nonetching removal of scale from titanium workpieces. 3,690,949, 9-12-72, Cl. 134-2.000.
- Ng, David M.; and Rehkopf, Charles H., to GTE Sylvania Incorporated. Means for achieving a controlled gradient density coating on a light attenuation medium. 3,664,295, 5-23-72, Cl. 118-8.
- Ng, David M.; and Rehkopf, Charles M., to Sylvania Electric Products, Inc. Optical system for forming a windowed web in a color cathode ray tubescreen structure. 3,667,355, 6-6-72, Cl. 95-1.000.
- Ng, Keng Chock. Process for producing potato chips. 3,660,113, 5-2-72, Cl. 99-100.
- NGK Insulators, Ltd.: See—
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Okada, Toru; and Takatori, Toshimitsu, 3,647,933.
Sakai, Yoshikazu, 3,652,778.
Shimizu, Tsuneaki; and Ueno, Kazunao, 3,634,609.
Tokura, Tadao, 3,696,930.
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Cooper, Michael Henry; and Fryatt, Leslie Alva, 3,673,904.
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- Ngo, Dinh-Tuan, to Bell Telephone Laboratories, Incorporated. Solid state traveling display circuit. 3,651,493, 3-21-72, Cl. 340-173.
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- Ngo, Dinh-Tuan, to Bell Telephone Laboratories, Incorporated. Gaseous display device. 3,671,938, 6-20-72, Cl. 340-166.00r.
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Munschauer, Frederick E., Jr.; and Trautman, George H., Jr., 3,675,463.
Swenson, Donald G.; and Trautman, George H., Jr., 3,702,558.
- Niall, Hugh D.: See—
Treagar, Geoffrey W.; Battaerd, Hendrik A. J.; Lang, Gunter A.; Catt, Kevin; and Niall, Hugh D., 3,700,609.
- Nibco, Inc.: See—
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- Niblack, John F., to Pfizer Inc. Formulation process for polynucleotide homopolymers. 3,652,538, 3-28-72, Cl. 260-211.5.
- Niblo, Harold D. Material mixing and conveying apparatus. 3,692,282, 9-19-72, Cl. 259-4.000.
- Nicco, Adrien: See—
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Andresen, Rolf; Fiorino, Benjamin C.; and Niccore, Fred W., 3,670,304.
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- Nicely, Thomas E.: See—
Abarotin, Eugene V.; Nicely, Thomas E.; and Wilshire, Robert A., Jr., 3,650,315.
- Nichicon Capacitor Limited: See—
Chiba, Minoru, 3,671,818.
Inoue, Kiyoshi, 3,687,735.
Kawakami, Takaya; Kitamura, Toshinori; Ajichi, Yoshio; and Ono, Masayoshi, 3,706,949.
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- Nichol, George D. Golf cart seat. 3,633,519, 1-11-72, Cl. 108-44.
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- Nicholas, George C. Boring tool. 3,694,099, 9-26-72, Cl. 408-58.000.
- Nicholas, George E.; and Watkins, Howard G. Building construction framework with receivers for bracing means. 3,668,828, 6-13-72, Cl. 52-92.000.
- Nicholas, Harold J.; and Knapp, Furn F., Jr. Class of liquid crystals. 3,686,235, 8-22-72, Cl. 260-397.200.
- Nicholas, James P.: See—
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- Nicholas, Merle E., to Honeywell Inc. Relative humidity sensor. 3,703,697, 11-21-72, Cl. 338-35.000.
- Nicholas, Peter G.: See—
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- Nicholas, Winslow C.; and Loomis, Joseph L. Portable play platform. 3,706,105, 12-19-72, Cl. 5-93.00r.
- Nichols, Kenneth E., to Hymatic Engineering Company Limited, The. Cooling apparatus of the Joule Thomson type. 3,645,113, 2-29-72, Cl. 62-514.
- Nichols, Kenneth Edmund; and Longbottom, Geoffrey Brian, to Hymatic Engineering Company Limited, The. Cryogenic refrigerating apparatus. 3,691,784, 9-19-72, Cl. 62-218.000.
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- Nicholl, Thomas H. Induction charging device. 3,675,108, 7-4-72, Cl. 320-2.000.
- Nicholls, Reginald W., to Mattel, Inc. Toy aircraft roundabout with flexible control tether. 3,705,720, 12-12-72, Cl. 272-31.00a.
- Nicholls, Robin P.: See—
Di Napoli, Nicholas; Friedman, Donald; Nicholls, Robin P.; Wilcox, Howard A.; and Wood, Gerald E., 3,665,397.
- Nicholls, William C., to Columbia Broadcasting System, Inc. Multiple frequency time code generator and reader. 3,681,524, 8-1-72, Cl. 178-6.60a.
- Nicholson, Iver Val, to Kiddie World Toys, Ltd. Doll cutouts and process of making same. 3,646,705, 3-7-72, Cl. 46-157.
- Nichols, Andrew J.: See—
Condon, David C.; and Nichols, Andrew J., 3,678,462.
- Nichols, Arthur E., Jr.: See—
Heiligenthal, Harry E.; and Nichols, Arthur E., Jr., 3,646,652.
- Nichols, Charles E., Jr.; and Howard, Gerald T., to Merry Companies Incorporated. Concrete block or the like with multiple brick facing and method of making the same. 3,660,214, 5-2-72, Cl. 161-38.
- Nichols, Charles M. Valve apparatus including self-installing mechanism. 3,699,996, 10-24-72, Cl. 137-318.000.
- Nichols, Duane C.: See—
Linstromberg, William J.; and Nichols, Duane C., 3,643,458.
- Nichols, Duane C., to Whirlpool Corporation. Mechanical bin level sensing control for domestic ice maker. 3,643,456, 2-22-72, Cl. 62-137.
- Nichols, Duane C.; and Linstromberg, William J., to Whirlpool Corporation. Defrost bimetal for interrupting time cycle ice maker during defrost-single timer. 3,659,430, 5-2-72, Cl. 62-233.
- Nichols, Duane W., to Whirlpool Corporation. Axially movable twist tray domestic ice maker. 3,677,030, 7-18-72, Cl. 62-353.000.
- Nichols, Dwight E., to Hoover Ball and Bearing Company. Door hinge assembly for bins. 3,651,537, 3-28-72, Cl. 16-128.
- Nichols, Edgar B.; and Cundiff, J. Howard, Jr. Troller. 3,688,431, 9-5-72, Cl. 43-43.140.
- Nichols Engineering & Research Corporation: See—
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- Richmond, Charles A., 3,696,590.
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- Nichols, George E., Jr., to Bird Machine Company. Slurry screen and process of making it. 3,664,502, 5-23-72, Cl. 209-397.
- Nichols, George Edwin, Jr., to Bird Machine Company. Solids-liquid separating centrifuge. 3,685,722, 8-22-72, Cl. 233-23.00r.
- Nichols, George M., to Stauffer Chemical Company. Process for preparing alkyl aryl phosphates. 3,642,959, 2-15-72, Cl. 260-973.
- Nichols, Gus. Method of preparing aromatic polyamides. 3,639,358, 2-1-72, Cl. 260-78.
- Nichols, Gust: See—
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- Nichols, Hal C.; Irwin, Sibley R.; and Collins, Robert K., Jr., to Rohm & Haas Company. Drum positioning and printing apparatus. 3,680,479, 8-1-72, Cl. 101-38.00r.
- Nichols, Harry R.: See—
Hill, Vernon L.; Nichols, Harry R.; and Hess, Alan L., 3,679,494.
- Nichols, Henry E.: See—
Von Otto, Robert E., 3,692,024.
- Nichols, James B. Cooking apparatus. 3,691,938, 9-19-72, Cl. 99-348.000.
- Nichols, John A., to Mill Industries, Inc. Material drying apparatus. 3,702,503, 11-14-72, Cl. 34-114.000.
- Nichols, John B.; and Gamaunt, Roger L., to Hughes Tool Company. Heavy lift helicopter with vertically adjustable cockpit. 3,679,154, 7-25-72, Cl. 244-17.110.
- Nichols, Joseph; and Sexsmith, Frederick H., to Ethicon, Inc. Hydrothermal treatment of collagen sutures. 3,651,204, 3-21-72, Cl. 264-342.
- Nichols, Kenneth E.: See—
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- Nichols, Kenneth E., to Air Reduction Company, Incorporated. High pressure centrifugal pump. 3,635,581, 1-18-72, Cl. 415-169.
- Nichols, Kenneth E., to Gates Rubber Company, The. Slipper bearing lubrication and seal. 3,692,373, 9-19-72, Cl. 308-36.300.
- Nichols, Larry D., to Moleculon Research Corporation. Pattern forming puzzle and method with pieces rotatable in groups. 3,655,201, 4-11-72, Cl. 273-153.
- Nichols, Mary Ellen: See—
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- Nichols, Matthew, to Sauter Packaging Company. Heat sealing station. 3,657,055, 4-18-72, Cl. 156-583.
- Nichols, Matthew, to Sauter Packaging Company. Machine for sealing printed cards to filled blister cards. 3,694,295, 9-26-72, Cl. 156-556.000.
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- Nichols, Paul E., to Leisure Products Corporation. Remote throttle and steering control unit. 3,659,475, 5-2-72, Cl. 74-480.
- Nichols, Raymond A.: See—
Lynch, John F.; Moser, Murtha E.; and Nichols, Raymond A., 3,687,288.
- Nichols, Roy A. Method of and means for constructing and erecting building structures formed of bricks, or the like. 3,659,391, 5-2-72, Cl. 52-747.
- Nichols, Thomas G., to General Electric Company. Techniques for casting encapsulated coils. 3,668,583, 6-6-72, Cl. 336-58.000.
- Nichols, Thomas Gilbert: See—
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- Nichols, Troy R.: See—
Rosenfeld, Myer; and Nichols, Troy R., 3,645,905.
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- Nichols, William A.; and Simpson, Ralph E. Tape winding means. 3,672,592, 6-27-72, Cl. 242-55.210.
- Nichols, William A. Table and/or table conveyor structure. 3,695,346, 10-3-72, Cl. 165-120.000.
- Nicholson, Brian John, to Tracked Hovercraft Limited. Linear motor reaction rail assembly. 3,650,469, 3-21-72, Cl. 238-264.
- Nicholson, Dallas E.: See—
Colgate, Stirling A.; Kempton, Marvin L.; Hanson, Merle E.; Munson, William O.; and Nicholson, Dallas E., 3,696,750.
- Nicholson, Dallas Earl: See—
Posson, Philip Lynn; Moore, Donald Baker; and Nicholson, Dallas Earl, 3,646,888.
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Wann, Robert Earl; Nicholson, Denzel Allan; and Logan, Ted Joe, 3,691,077.
- Nicholson, Denzel Allan, to Procter & Gamble Company, The. Halogenated phosphonoacetate esters. 3,649,722, 3-14-72, Cl. 260-941.
- Nicholson, Denzel Allan, to Procter & Gamble Company, The. Process for the production of halogenated methylenediphosphonates. 3,662,039, 5-9-72, Cl. 260-986.
- Nicholson, Denzel Allan, to Procter & Gamble Company, The. Methylenediphosphonate esters. 3,705,219, 12-5-72, Cl. 260-932.000.
- Nicholson, Donald R. Animal dehorning apparatus. 3,676,929, 7-18-72, Cl. 30-228.000.
- Nicholson, Eric Samuel: See—
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- Nicholson, Geoffrey C.; and Newman, Donald J., to Minnesota Mining and Manufacturing Company. Heat-sensitive copy-sheet. 3,669,747, 6-13-72, Cl. 117-36.900.
- Nicholson, Henry: See—
Adwick, Albert Graham; and Nicholson, Henry, 3,688,242.
- Nicholson, James E.; and Adams, Richard H., to Sanders Associates, Inc. Rain erosion protective device. 3,637,166, 1-25-72, Cl. 244-1.
- Nicholson, James F.; and Williams, Clarence, to Westinghouse Electric Corporation. Control system for electron beam magnetometer sensor. 3,657,643, 4-18-72, Cl. 324-44.
- Nicholson, James H. Longitudinal to rotational motion. 3,643,619, 2-22-72, Cl. 115-24.
- Nicholson, James O.: See—
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- Nicholson, John B., to Continental Can Company, Inc. Support for ham cans during double seaming. 3,672,318, 6-27-72, Cl. 113-30.000.
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Cervenak, Peter J., 3,653,417.
Nicholson, Thomas W.; Jorgensen, Ray B.; and Vanek, Stanley Donald, 3,661,192.
- Nicholson, Peter, to British Insulated Callender's Cables Limited. Manufacture of insulated electric cables. 3,689,610, 9-5-72, Cl. 264-40.000.
- Nicholson, Robert H.: See—
Finley, Ronald K.; Langlois, Donald J.; and Nicholson, Robert H., 3,659,315.
- Nicholson, Robert T.: See—
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- Nicholson, Terence P., 1/2 to Corrugated Packing and Sheet Metal Company Limited, The. Sealing means. 3,643,965, 2-22-72, Cl. 277-75.
- Nicholson, Thomas W.; Jorgensen, Ray B.; and Vanek, Stanley Donald, to Nicholson Manufacturing Company. Peripheral chipper for round log sections. 3,661,192, 5-9-72, Cl. 144-172.
- Nichter, David E. Drive for a reduced scale track laying utility vehicle. 3,645,349, 2-29-72, Cl. 180-6.48.
- Nicita, John, to Power Technology Corporation. Gas turbine engine with aerodynamic torque converter drive. 3,651,640, 3-28-72, Cl. 69-39.24.
- Nick, Didier P., to Societe Verreries Industrielle Reunies du Loing. Connector for tubular elements. 3,692,338, 9-19-72, Cl. 285-272.000.
- Nickel, Horst; and Suckfull, Fritz, to Farbenfabriken Bayer Aktiengesellschaft. Method of producing aminonaphthalene sulphonic acid. 3,655,740, 4-11-72, Cl. 260-509.
- Nickel, Werner; and Christopoulos, Nikolaos, to Leitz, Ernst, G.m.b.H. Electronic exposure time measuring circuit with time indicator and shutter control means. 3,677,151, 7-18-72, Cl. 95-10.00c.
- Nickell, Louis G., to Hawaiian Sugar Planters Association. Ripening of sugarcane by use of certain quaternary ammonium halides. 3,660,072, 5-2-72, Cl. 71-121.
- Nickell, Louis G., to Hawaiian Sugar Planters' Association. Ripening of sugarcane by use of certain quaternary ammonium halides. 3,671,219, 6-20-72, Cl. 71-121.000.
- Nickell, Louis G., to Hawaiian Sugar Planters Association. Ripening of sugarcane by use of alkyl derivatives of 3-phenoxy pyridazine. 3,704,111, 11-28-72, Cl. 71-92.000.
- Nickels, James J.; Mahoney, Tennis; and Hart, Harry L., to Lincoln Logotype Co., Inc. Brake mechanism for printing wheel. 3,648,606, 3-14-72, Cl. 101-375.
- Nickels, William M., to Norgren, C. A., Co. Selector valve with O-ring seals. 3,687,163, 8-29-72, Cl. 137-625.110.
- Nickelsen, Hubert O.; Kopanda, Joseph E.; and Piasecki, Felix J., to United States Steel Corporation. Method of making cement clinkers. 3,677,781, 7-18-72, Cl. 106-100.000.
- Nickerson, John D.; and Wiesboeck, Robert A., to United States Steel Corporation. Process for preparing phosphorus pentafluoride and fluorophosphoric acids. 3,634,034, 1-11-72, Cl. 23-205.
- Nickerson, Ralph F., to Monsanto Company. Polyvinyl alcohol adhesive composition with high wet tack containing a boron compound and cis 1,2 polyol compound. 3,632,786, 1-4-72, Cl. 260-29.6.
- Nickerson, Ralph F.; and Weymouth, Harold D., to Monsanto Company. Polyvinyl alcohol-glyoxal-polyol adhesive composition. 3,700,611, 10-24-72, Cl. 260-17.00r.
- Nickerson, Richard Gorham; Harris, Barry Russell; and Breslouf, Morris, to Borden, Inc. Acid curable vinyl acetate copolymer latex-polyvinyl alcohol adhesive. 3,644,257, 2-22-72, Cl. 260-29.6.
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- Nicklin, Thomas, to Gas Council, The. Treatment of gases. 3,704,095, 11-28-72, Cl. 423-242.000.
- Nicko, Reinhard: *See—*
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- Nicks, Gene E.: *See—*
Feighner, George C.; Kerfoot, Oliver C.; Krehbiel, Delmar D.; and Nicks, Gene E., 3,661,780.
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- Nickstadt, Albert G.: *See—*
Moeller, Alfred H.; Demont, Michel; and Nickstadt, Albert G., 3,644,613.
- Nickstadt-Moeller, Inc.: *See—*
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- Nicol, Edward A.: *See—*
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- Nicol, Edward A.; and Frederick, Harold M., to Burroughs Corporation. Sheet stacking device. 3,704,793, 12-5-72, Cl. 214-7.000.
- Nicol, John, to Teledyne, Inc. Tube coupling assembly. 3,653,694, 4-4-72, Cl. 285-334.4.
- Nicol, John Paul, to Asbestos Corporation. Novel lightweight asbestos containing cementitious material and process for producing the same. 3,661,603, 5-9-72, Cl. 106-90.
- Nicola, Maurilio; and Luciano, Ezio, to Maezelectronics, S.n.C. Electronic antitheft device using an electronic safety lock. 3,660,831, 5-2-72, Cl. 340-274.
- Nicolaas, Amersfoort: *See—*
Leyten, Johannes; and Nicolaas, Amersfoort, 3,657,565.
- Nicolai, Van O. Light polarizing prism of zircon. 3,700,308, 10-24-72, Cl. 350-157.000.
- Nicolaides, Ernest D., to Parke, Davis & Company. Phenylalanine derivatives for treatment of measles infections. 3,700,770, 10-24-72, Cl. 424-177.000.
- Nicolaisen, Juncker Zelo: *See—*
Torr, Ralph P.; and Nicolaisen, Juncker Zelo, 3,695,046.
- Nicolas, Jean: *See—*
Lagrange, Alain; Nicolas, Jean; and Sroussi, Roland, 3,657,131.
- Nicolas, Jean-Pierre. Mixer assemblies. 3,662,773, 5-16-72, Cl. 137-100.000.
- Nicolas, Michel Jacques Robert; and Piroli, Claude Marius, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Rapid scanning echo detector. 3,662,385, 5-9-72, Cl. 343-10.
- Nicolas, Yves; and Bonnet, Jean-Loup, to Schlumberger Technology Corporation. Wireline well tool anchoring system. 3,664,416, 5-23-72, Cl. 166-65.
- Nicolas, Yves, to Schlumberger Technology Corporation. Method of processing production well logging data. 3,705,979, 12-12-72, Cl. 235-151.340.
- Nicolay, Karl, to Durkoppwerke GmbH. Thread retainer for sewing machines. 3,640,236, 2-8-72, Cl. 112-243.
- Nicolay, Karl, to Durkoppwerke GmbH. Sewing machine for the formation of a rectangular stitch pattern. 3,669,043, 6-13-72, Cl. 112-76.000.
- Nicolay, Karl; and Pollmeier, Konrad, to Durkoppwerke GmbH. Stacking device for flexible workpieces. 3,704,884, 12-5-72, Cl. 271-85.000.
- Nicolay, Klaus: *See—*
Wagner, Karl; and Nicolay, Klaus, 3,672,271.
Wagner, Karl; Nicolay, Klaus; Schuchardt, Gerhard; and Putscher, Johann, 3,705,539.
- Nicole, Andre: *See—*
Auer, Ulrich W.; and Nicole, Andre, 3,692,068.
- Nicolet, Charles F., to Standard Oil Company. Process for removal of catalyst complex. 3,679,770, 7-25-72, Cl. 260-674.00a.
- Nicolet Industries, Inc.: *See—*
Breiner, Richard C., 3,692,509.
- Nicoll, Fredrick Hermes, to RCA Corporation. Electron beam excited laser. 3,657,735, 4-18-72, Cl. 331-94.5.
- Nicollian, Edward Haig: *See—*
Berglund, Carl Neil; and Nicollian, Edward Haig, 3,648,122.
Kahng, Dawn; and Nicollian, Edward Haig, 3,651,349.
- Nicolls, Keith K.: *See—*
Springer, Edward M., 3,680,783.
- Nicoloff, Demetre M.: *See—*
Blackshear, Perry L.; Forstrom, Richard J.; Dorman, Frank D.; and Nicoloff, Demetre M., 3,667,069.
- Nicolon N.V.: *See—*
De Winter, Jan Gerrit, 3,699,686.
- Nicolson, Alexander M.: *See—*
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- Nicolson, Alexander M.; and Ross, Gerald F., to United States of America, Air Force. System to measure the frequency domain response of a radar component. 3,634,755, 1-11-72, Cl. 324-57.
- Nicolson, Garth Fancher; and Wilms, Carl Alfred, to Jackson, Byron, Inc. Power pipe tong with torque responsive brake means. 3,704,638, 12-5-72, Cl. 81-57.180.
- Nicot, Gerard, to Creusot-Loire. Apparatus for shaping metallic pieces by shock waves. 3,662,577, 5-16-72, Cl. 72-56.000.
- Nicpon, Philip E., to Standard Oil Company (Indiana). Polymerization catalysts using supported rhenium oxides. 3,661,802, 5-9-72, Cl. 252-430.
- Niecyper, Raymond. Proportion scaler. 3,634,942, 1-18-72, Cl. 33-150.
- NID Pty. Limited: *See—*
Faerber, Hans Arthur, 3,632,258.
- Nidetzky, Leopold, to U.S. Philips Corporation, mesne. Perforated shear-plate for dry shavers. 3,650,849, 3-21-72, Cl. 148-12.4.
- Nido, Jay, to Koppers Company, Inc. Sheet length control system. 3,668,957, 6-13-72, Cl. 83-37.
- Niebes, Roger S.: *See—*
Jordan, Howard J.; and Niebes, Roger S., 3,649,366.
- Niebisch, Gunter, to Hansel, Otto, GmbH. Apparatus for continuous melting of sugar. 3,690,372, 9-12-72, Cl. 161-64.000.
- Nieboer, Keith A., to Keeler Brass Company. Air conditioning vent. 3,648,592, 3-14-72, Cl. 98-107.
- Nieboer, Pieter Hendrik, to Demag Aktiengesellschaft. Device for distributing material into a furnace. 3,651,964, 3-28-72, Cl. 214-36.
- Nieboer, Pieter Hendrik, to Demag Aktiengesellschaft. Valve packing for metallurgical shaft furnaces. 3,679,193, 7-25-72, Cl. 266-27.000.
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- Nieboer, Pieter Hendrik, to Demag Aktiengesellschaft. Charging device for a metallurgical furnace. 3,693,956, 9-26-72, Cl. 266-27.000.
- Nieboer, Pieter Hendrik, to Demag Aktiengesellschaft. Charging apparatus construction for a blast furnace. 3,704,992, 12-5-72, Cl. 214-37.000.
- Niebylski, Leonard M.: *See—*
Jarema, Chester P.; and Niebylski, Leonard M., 3,707,401.
- Niechwiadowicz, Michal: *See—*
Finestone, Arnold B.; Miller, Roger; and Niechwiadowicz, Michal, 3,635,852.
Finestone, Arnold B.; and Niechwiadowicz, Michal, 3,657,162.
- Niechwiadowicz, Michal; and Finestone, Arnold B., to Foster Grant Co., Inc. Process for dyeing styrene polymers. 3,632,288, 1-4-72, Cl. 8-4.
- Nieder, Berthold L. Apparatus for assembling laminations. 3,634,919, 1-18-72, Cl. 29-203.
- Niederer, Kurt W.: *See—*
Bell, Charles C.; and Niederer, Kurt W., 3,688,486.
- Niederer, Otto C., to Aqua-Tech, Inc. Embedding cable like members. 3,638,439, 2-1-72, Cl. 61-72.4.
- Niederer, Otto C. Egg stabilizer. 3,672,501, 6-27-72, Cl. 209-121.000.
- Niederhauser, Warren Dexter; Belmares-Sarabia, Hector; and Bauer, William, Jr., to Rohm & Haas Company. Urethane elastomer with active hydrogen containing monoethylenically unsaturated monomer. 3,641,199, 2-8-72, Cl. 260-859.
- Niederholtmeyer, F. J. Guenther. Door jack. 3,642,251, 2-15-72, Cl. 254-131.
- Niedermeyer, Karl O. Emergency sump pump apparatus. 3,634,842, 1-11-72, Cl. 340-244.
- Niedermiller, Herbert C.: *See—*
Colson, William B.; Niedermiller, Herbert C.; and Deradoorian, Bagdasar, 3,679,384.
- Niediek, Gunter, to Schaper & Brunner K.G. Apparatus for coating discrete articles. 3,658,030, 4-25-72, Cl. 118-7.
- Niedl, Georg. Impeller for heavy duty comminuting pumps. 3,640,474, 2-8-72, Cl. 241-46.02.
- Niedner, Peter; Diez, Gerhard; and Thubeauville, Heinz. Process for mixing gases, liquids or finely grained solids with a carrier gas and for the manufacture of reaction products. 3,647,357, 3-7-72, Cl. 23-1.
- Niedner, Peter Klaus: *See—*
Niedner, Peter Klaus; and Diez, Gerhard H. (said Diez assor. to said), 3,696,520.
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- Niedorf, Carl: *See—*
Krakow, Heinz; and Niedorf, Carl, 3,698,622.

- Niedrach, Leonard W.; and Grubb, Willard T., to General Electric Company. Fuel cell electrode. 3,635,763, 1-18-72, Cl. 136-86.
- Niedrach, Leonard W.; and Stoddard, William H., Jr., to General Electric Company. Carbon dioxide sensor. 3,673,069, 6-27-72, Cl. 204-195.00g.
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- Niedrach, Leonard W.; and Grubb, Willard T., to General Electric Company. Carbon dioxide sensor. 3,705,088, 12-5-72, Cl. 204-195.00p.
- Nief, Guy; and Morand, Jean-Pierre. Isotope separation apparatus. 3,673,406, 6-27-72, Cl. 250-43.000.
- Niegisch, Walter D., to Union Carbide Corporation. Surface crystallized poly (2,2,4,4-tetramethyl-cyclobutanediol-1,3) carbonates. 3,674,623, 7-4-72, Cl. 161-164.
- Niehaus, Conrad F. Continuous metallurgical process. 3,672,869, 6-27-72, Cl. 75-45.000.
- Niehaus, Wolfgang: *See—*
Kucbens, Alexander; and Niehaus, Wolfgang, 3,669,312.
- Niehuus, Hans-Christian: *See—*
Lieb, Albert; and Niehuus, Hans-Christian, 3,688,143.
- Niejadlik, John: *See—*
Ehrenfried, Albert D.; Niejadlik, John; and Pierce, Norton T., 3,653,262.
Ehrenfried, Albert D.; Niejadlik, John; and Pierce, Norton T., 3,663,881.
- Nieland, Donald B. Portable goalpost. 3,675,922, 7-11-72, Cl. 273-55.00r.
- Nielander, Henrik. Machine for mixing, plasticating and pressing out of plastics, rubber and other highly viscous materials at controlled pressure. 3,669,415, 6-13-72, Cl. 259-12.000.
- Nielander, Henrik. Mixing and plasticizing machine. 3,695,585, 10-3-72, Cl. 259-5.000.
- Nielander, William B., to Xerox Corporation. Electrostatic magnetic developing apparatus. 3,640,248, 2-8-72, Cl. 118-637.
- Nield, Eric: *See—*
Rose, John Brewster; Mathews, Carl Fraser; Nield, Eric; and Vincent, Peter Incledon, 3,634,547.
- Nield, Eric; and Rose, John Brewster, to Imperial Chemical Industries Limited. Thermoplastic compositions. 3,652,726, 3-28-72, Cl. 260-876.
- Nield, Eric; and Rose, John Brewster, to Imperial Chemical Industries Limited. Vinyl chloride copolymers. 3,666,720, 5-30-72, Cl. 260-47.00a.
- Nield, Eric, to Imperial Chemical Industries Limited. Methyl methacrylate copolymers. 3,676,404, 7-11-72, Cl. 260-78.00a.
- Niels Clauson-Kaas: *See—*
Petersen, John Valdemar Brammer, 3,658,826.
- Niels Erik Guldback Kaiser: *See—*
Neergaard, Ejler Bastrup, 3,704,939.
- Nielsen, A. C., Company: *See—*
Haselwood, Donald E.; and Solar, Carl M., 3,651,471.
- Nielsen, Aage, to Nielsen, H., & Son Maskinfabrik A/S. Oil atomization burner. 3,652,017, 3-28-72, Cl. 239-453.
- Nielsen, Alfred T., to Unidry K/S Engineering and Development Group. Method for briquetting grass and similar green crops. 3,653,319, 4-4-72, Cl. 100-38.
- Nielsen, Anker J., Jr. Positive locking terminal bushings for flexible pipe. 3,700,268, 10-24-72, Cl. 285-55.000.
- Nielsen, Arne E.: *See—*
Rasmussen, Ole-Bendt; Madsen, Willy Buch; and Nielsen, Arne E., 3,686,853.
- Nielsen, Asger T., to Compufoto, Inc. Character generator employing pulsed beam interrogation of matrix. 3,665,453, 5-23-72, Cl. 340-324.
- Nielsen, Asger T., to Compufoto, Inc. Data source microfilm recorder with forms overlay. 3,677,146, 7-18-72, Cl. 95-1.100.
- Nielsen, Asger T., to Compufoto Inc. Alignment system useful in computer output microfilm recorders. 3,688,654, 9-5-72, Cl. 95-1.100.
- Nielsen, Christian A.: *See—*
Boufflou, Russell D.; and Nielsen, Christian A., 3,653,282.
- Nielsen, Donald R., to PPG Industries, Inc. Novel bleaching compositions and use thereof. 3,639,285, 2-1-72, Cl. 252-100.
- Nielsen, Donald R., to PPG Industries, Inc. Preparation of diphenylphthalic acids. 3,655,738, 4-11-72, Cl. 260-502.
- Nielsen, Edith M.: *See—*
Nielsen, Richard H.; Nielsen, Edith M.; and Fetty, Joan H., 3,688,357.
- Nielsen, Edwin A.: *See—*
Cooper, Julius; and Nielsen, Edwin A., 3,674,269.
- Nielsen, Edwin August: *See—*
Nemeth, Henry; Nielsen, Edwin August; and Berkin, Harvey, 3,667,764.
- Nielsen, Frank H. Rotatable load-bearing pendants. 3,684,078, 8-15-72, Cl. 198-33.0ab.
- Nielsen, H., & Son Maskinfabrik A/S: *See—*
Madsen, Eigil, 3,658,372.
Nielsen, Aage, 3,652,017.
- Nielsen, Hans, to Vald. Henriksen A/S. Apparatus for dyeing skeins of yarn. 3,670,532, 6-20-72, Cl. 68-188.000.
- Nielsen, Hans Borge: *See—*
Henningsen, Erik; and Nielsen, Hans Borge, 3,696,645.
- Nielsen Hardware Corporation, The: *See—*
Swanson, Gunnar E., 3,670,371.
- Nielsen, Jacob A.: *See—*
Idskov, Arne S.; and Nielsen, Jacob A., 3,637,066.
- Nielsen, John K.: *See—*
Miller, Rodney D.; and Nielsen, John K., 3,678,677.
- Nielsen, Knud. Piece of furniture, particularly a child's chair. 3,656,804, 4-18-72, Cl. 297-170.
- Nielsen, Lars Stig, to Christian Rovsing A/S. Device for starting or stimulating heart contractions. 3,669,120, 6-13-72, Cl. 128-419.
- Nielsen, Lawrence E.; and Fields, Joseph E., to Monsanto Company. Steel-reinforced composite. 3,632,792, 1-4-72, Cl. 260-41.
- Nielsen, Lawrence E.; and Fields, Joseph E., to Monsanto Company. Boron-reinforced composite. 3,652,491, 3-28-72, Cl. 260-41.
- Nielsen, Le Roy C., to Eastman Kodak Company. Web slack box having a rotatable web accumulator. 3,693,859, 9-26-72, Cl. 226-118.000.
- Nielsen, Ole; and Beidil, Max. Method of manufacturing a foil material embossed on both sides, a roll nip and a machine for carrying out the method. 3,673,839, 7-4-72, Cl. 72-196.000.
- Nielsen, Otto Sevenen. Leveling device for pool tables. 3,653,341, 4-4-72, Cl. 108-144.
- Nielsen, Paul L.: *See—*
Rheineck, Alfred E.; Nielsen, Paul L.; and Khoe, Teng H., 3,676,384.
- Nielsen, Per Ostergaard, to Aktieselskabet Laur. Knudsen, Nordisk Elektricitets Selskab. Sand-filled electric fuses. 3,662,310, 5-9-72, Cl. 337-290.
- Nielsen, Peter V., to Danfoss A/S. Passive temperature sensor. 3,664,193, 5-23-72, Cl. 73-368.000.
- Nielsen, Richard H.; Nielsen, Edith M.; and Fetty, Joan H. Macrame loom. 3,688,357, 9-5-72, Cl. 28-15.000.
- Nielsen, Robert A.: *See—*
McInnis, Andrew M.; Ballard, Louis M.; Rogers, Waldo I.; Kramer, David C.; and Nielsen, Robert A., 3,639,990.
- Nielsen, Robert N., Jr.: *See—*
Mardon, Austin; and Nielsen, Robert N., Jr., 3,670,328.
- Nielsen, Robert P., to Shell Oil Company. Chemical production of metallic silver deposits. 3,702,259, 11-7-72, Cl. 117-37.00r.
- Nielsen, Ruth A. Eyelet construction. 3,636,569, 1-25-72, Cl. 2-325.
- Nielsen, Ruth N. Method and apparatus for sewing darts. 3,694,818, 10-3-72, Cl. 2-243.00r.
- Nielsen, Soren, to Danfoss A/S. Wheel-drive system incorporating a hydraulic motor. 3,653,454, 4-4-72, Cl. 180-66.
- Nielsen, Tage S., to Rite Autotronics Corporation. Capacitive pickup means for an electrical tachometer. 3,686,569, 8-22-72, Cl. 324-126.000.
- Nielsen, Thomas C.: *See—*
Brumbaugh, Philip A.; Harrington, Richard H.; Nemier, Stanley E.; and Nielsen, Thomas C., 3,672,482.
- Nielsen, Vagn; Lauridsen, Jens Birk; and Jensen, Kristian Stristrup, to Aktieselskabet Grindsledvaiket. Process for preparing propylene glycol alginate. 3,691,150, 9-12-72, Cl. 260-209.600.
- Nielsen, Waldemar R.; and Mathias, Charles D., to Industrial Tools, Inc. Helical blade milling cutter. 3,672,017, 6-27-72, Cl. 29-105.000.
- Nielson, Celdon M. Fishing pole holder. 3,669,390, 6-13-72, Cl. 248-42.000.
- Nielson, Gary E., to Jackes-Evans Manufacturing Company. Temperature responsive capacity control device and system. 3,633,379, 1-11-72, Cl. 62-202.
- Nielson, Jay P. Mechanical heart system. 3,636,570, 1-25-72, Cl. 3-1.
- Nielson, Jay P.; and Allred, G. Allen, to Eaton Yale & Towne, Inc. Vacuum pick up head. 3,697,112, 10-10-72, Cl. 294-65.000.
- Nielson, Lonnie R., to Carlon Engineering Company, Incorporated. Expandable wrist band. 3,673,795, 7-4-72, Cl. 59-80.000.
- Nielson, Stephen M., to Texas Gulf Sulphur Company. Control of organic deposition in slurry heaters in potash crystallizer circuit. 3,674,442, 7-4-72, Cl. 23-299.000.
- Niemand, Emil, to Robertshaw Controls Company. Timer construction means and system utilizing the same or the like. 3,652,870, 3-28-72, Cl. 307-133.
- Niemann, George W.; and Shannon, Charles N., to United States of America, Navy. Digital frequency generator for coded interrogation. 3,676,780, 7-11-72, Cl. 325-155.000.
- Niemann, Gert, to Bosch, Robert, G.m.b.H. Sealed battery with synthetic resin case and cover. 3,698,961, 10-17-72, Cl. 136-170.000.
- Niemann, James Edward: *See—*
Haldopoulos, Ioakim; and Niemann, James Edward, 3,680,153.
- Niemann, Theodore F., to Goodrich, B. F., Company, The. Process for block copolymerization of polar monomers with an organolithium compound and heterocyclic sulfur compound. 3,699,191, 10-17-72, Cl. 260-881.000.

- Niemann, Theodore F., to Goodrich, B. F., Company, The. Catalytic block copolymerization of polar monomers. 3,700,756, 10-24-72, Cl. 2601881.000.
- Niemann, Gerd, to Drahtex GmbH. Sealing strip. 3,665,646, 5-30-72, Cl. 49-490.
- Niemeyer, Willy: *See—*
Feldkamper, Richard; and Niemeyer, Willy, 3,657,975.
- Niemi, John C.: *See—*
Fisher, Richard L.; Nestel, Stephan C.; and Niemi, John C., 3,685,238.
- Niemi, William. Pressure applicator. 3,641,643, 2-15-72, Cl. 29-110.5.
- Niemiec, Albin J.: *See—*
Pettibone, Raymond B.; and Niemiec, Albin J., 3,680,990.
- Niemiec, Albin J., and Pettibone, Raymond B., to Sperry Rand Corporation. Power transmission. 3,645,654, 2-29-72, Cl. 418-133.
- Niemiec, Gerald M.: *See—*
Davenport, Richard L.; and Niemiec, Gerald M., 3,696,977.
- Niemiec, Stanley: *See—*
Silverstein, Samuel; and Niemiec, Stanley, 3,632,356.
- Nieminski, Robert A.: *See—*
Wahl, James A.; and Nieminski, Robert A., 3,640,415.
- Niemirovich, John, Jr., to Sperry Rand Corporation. Termination arrangement for wire devices. 3,707,039, 12-26-72, Cl. 29-625.000.
- Niemkiewicz, Ignatius J.: *See—*
Burgess, Lester E.; Niemkiewicz, Ignatius J.; Cruger, Robert W.; and Charno, Ronald J., 3,666,310.
- Niemkiewicz, Ignatius John; Reinemuth, George H.; and Silver, Floyd G., to Gulf & Western Industrial Products Company, mesne. Adjustable rotary hydraulic brake. 3,702,177, 11-7-72, Cl. 244-110.00a.
- Niemoller, Arthur B.: *See—*
Wilson, John R.; and Niemoller, Arthur B., 3,700,840.
- Nienart, Louis F., to Allied Chemical Corporation. Novel hot-pressed refractory articles and preparation thereof. 3,705,112, 12-5-72, Cl. 252-520.000.
- Nienburg, Hans: *See—*
Sturm, Hans Juergen; Armbrust, Herbert; Nienburg, Hans; and Einfeld, Wolfgang, 3,655,741.
- Nienhuis, Rijkent Jan, to U.S. Philips Corporation. Integrated circuit having four MOSFET devices arranged in a circle surrounding a guard diffusion. 3,643,139, 2-15-72, Cl. 317-235.
- Nienhuis, Rijkent Jan, to U.S. Philips Corporation. Tetrode MOSFET with gate safety diode within island zone. 3,649,885, 3-14-72, Cl. 317-235.
- Nienstaedt, Robert; and Bunting, James William, to Courtaulds Engineering Limited. Process control method and apparatus for regulating temperature. 3,692,986, 9-19-72, Cl. 235-151.100.
- Nienstedt, William H.: *See—*
Truesdell, Robert E., 3,656,790.
- Niepenberg, Robert; Oppenberg, Rolf; and Kuhn, Rudolf, to Deutsche Babcock & Wilcox Aktiengesellschaft. Oil burner. 3,700,376, 10-24-72, Cl. 431-13.000.
- Niepmann, Otto, to Maschinenfabrik Fr. Niepmann & Co. Feeding device for cigarettes for cigarette packing machines. 3,672,541, 6-27-72, Cl. 221-68.000.
- Nier, Johannes, to Bosch, Robert, G.m.b.H. Method of making a semiconductor unit. 3,689,985, 9-12-72, Cl. 29-471.300.
- Niermann, Horst: *See—*
Von Bonin, Wulf; Niermann, Horst; and Ott, Karl-Heinz, 3,651,171.
- Nies, Nelson P.; and Hulbert, Richard W., to United States Borax & Chemical Corporation. Zinc borate of low hydration and method for preparing same. 3,649,172, 3-14-72, Cl. 23-59.
- Niese, William F., to Libbey-Owens-Ford Company. Locating device. 3,673,664, 7-4-72, Cl. 29-203.00p.
- Niesen, George P.; and Marum, Edward C., to Dick, A. B., Company. Apparatus for applying a conversion liquid to electrostatic copy material. 3,703,156, 11-21-72, Cl. 118-117.000.
- Niestroj, Heinrich; and Tille, Hans, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Thread-guide setting device for straight-far knitting machines. 3,650,127, 3-21-72, Cl. 66-126.
- Nieswandt, Werner; Linge, Hermann; Pirzer, Hans; Hoerauf, Werner; and Hetz, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous extraction of granular polyamides. 3,639,659, 2-1-72, Cl. 260-78.
- Niethammer, Woodard A.: *See—*
Kilpatrick, Stanley A.; and Niethammer, Woodard A., 3,703,097.
- Nieuwenhuis, Willem H. M.: *See—*
Van Westrenen, William J.; De Carpentier, Pieter; and Nieuwenhuis, Willem H. M., 3,669,942.
- Niewolak, Ronald A. Bat and sphere game pieces. 3,671,039, 6-20-72, Cl. 273-95.00r.
- Niewold, Andreas: *See—*
Levin, Nathan D.; Niewold, Andreas; and Niklas, Wilfrid F., 3,683,194.
- Niewulis, Albin J.: *See—*
McMahon, Harold I.; and Niewulis, Albin J., 3,645,523.
- Niezoldi & Kramer GmbH: *See—*
Anderl, Peter, 3,692,393.
- Roth, Johann, 3,694,065.
- Scheibel, Josef; and Schadt, Karl-Heinz, 3,672,268.
- Nifco, Inc.: *See—*
Hara, Kunio, 3,651,545.
- Niforov, Vladimir Pavlovich; Zaitsev, Vasily Nikolaevich; Khomyakov, Viktor Stepanovich; Kil, Ilia Genrikhovich; and Tsybukov, Igor Kirillovich, to Vsesojuzny Nauchno-Issledovatel'skiy i Proektny Institut aluminievoy, magnievoy i Flektroodnoi promyshlennosti. Cathode casing of electrolyzer for producing aluminum. 3,702,815, 11-14-72, Cl. 204-243.00r.
- Nigg, Paul, to Ego Werke AG. Food service tray with cutlery. 3,704,779, 12-5-72, Cl. 206-47.00r.
- Niggelom, Curt. Stand with carrying device. 3,705,703, 12-12-72, Cl. 248-168.000.
- Niggemann, Theodor: *See—*
Tuschy, Eckhard; and Niggemann, Theodor, 3,641,858.
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Bullis, Robert H.; and Nighan, William, 3,668,550.
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Reber, Willy Ernst; Nigst, Henry; Haas, Josef; Batzer, Hans; and Zuppingen, Paul, 3,669,708.
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Yoshikawa, Mituhiko; Niheci, Hiroshi; and Shibasaki, Hiroichi, 3,691,423.
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Hasegawa, Tokushige; Makimoto, Kuninobu; Niheci, Seiji; and Takahira, Jiro, 3,672,868.
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Toda, Kazuo; Murai, Tosuke; Miura, Chikatoshi; and Tanura, Yuichi, 3,694,196.
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Mori, Hajime; and Irizuki, Mamoru, 3,697,180.
- Naono, Toyohiko, 3,637,310.
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- Takeuchi, Makoto; Nakagawa, Kazuo; Miyamae, Teruo; and Kase, Terubumi, 3,646,429.
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Isono, Tadao; and Katoh, Ikuji, 3,649,109.
- Nihon Eigakikai Kabushiki Kaisha (Japan Cine Equipment Mfg. Co., Ltd.): *See—*
Yoshiada, Risaburo, 3,651,748.
- Nihon Hikaku Kabushiki Kaisha: *See—*
Fuji, Tadahiko, 3,637,642.
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Funada, Kiyotaka; Shinohara, Takashi; and Imai, Hiroko, 3,672,940.
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Kodaira, Yasuo, 3,699,236.

- Nihon Nohyaku Co., Ltd.: *See—*
Shioyama, Osamu; Mine, Seizo; and Murata, Kikuzo, 3,699,228.
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Kishikawa, Zitsuchi; and Maekawa, Sadafumi, 3,703,599.
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Kusuno, Hideaki; Uchida, Miyoji; Segawa, Masahiro; and Kawakami, Yukichika, 3,642,684.
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Kaiho, Isao; Shimizu, Hiroshi; and Osuka, Hiroshi, 3,696,172.
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Osuga, Hiroshi; Kaiho, Isao; and Shimizu, Hiroshi, 3,658,944.
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Chiba, Matsubei; Kito, Kiyoharu; Mizutani, Hiroshi; and Kachi, Masayasu, 3,659,438.
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- Nihon Shokuhin Kako Co., Ltd.: *See—*
Goto, Yasuo; and Taki, Akio, 3,655,396.
- Nihon Spindle Seizo Kabushiki Kaisha: *See—*
Yamanaka, Ichiro; and Okumura, Akihide, 3,705,517.
- Nihon Tokushu Noyaku Seizo Kabushiki Kaisha: *See—*
Hirane, Seichi; Aya, Masahiro; and Kishino, Shigeo, 3,706,832.
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Naruse, Ohsuke; Ashiya, Ryosuke; Nii, Takehiko; and Fuse, Yuzo, 3,705,322.
- Naruse, Ohsuke; Ashiya, Ryosuke; Nii, Takehiko; and Fuse, Yuzo, 3,686,525.
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Shomura, Takashi; Ezaki, Norio; Tsuruoka, Takashi; Niwa, Tomizo; Akita, Eiichi; and Niida, Taro, 3,661,892.
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Arai, Sumio; Inouye, Masaru; Ogata, Yuzuru; Niimi, Yukihisa; and Nishimoto, Utiro, 3,666,661.
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Hachisu, Mikio; Niiyama, Eisuke; Sasaki, Ryoichi; Hataya, Humio; and Fukui, Yutaka, 3,658,516.
- Niizawa, Yoshiaki: *See—*
Kimura, Takehiko; and Niizawa, Yoshiaki, 3,639,734.
- Niizeki, Nobukazu: *See—*
Uchida, Naoya; Ohmachi, Yoshiro; and Niizeki, Nobukazu, 3,661,441.
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Umamoto, Susumu; Maki, Akio; and Nikamura, Keiji, 3,654,270.
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Hajduk, Jeno; and Katai, Mihaly, 3,675,852.
- Halmai, Attila; and Halmai, Geza, 3,646,892.
- Uliczky, Sandor, 3,680,832.
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Rogers, Leo C.; Nikirk, Roger G.; and Heitz, Alfred J., 3,679,470.
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Weiss, Robert O.; Nikitopoulos, Robert A.; and Gunther, Phillip B., 3,698,959.
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Imai, Masaya; Izubayashi, Masuji; Takiyama, Keiichi; Hirai, Mitsuo; and Nikki, Masao, 3,647,904.
- Nikkiso Co., Ltd.: *See—*
Sato, Ryuichi; Harimaya, Seizi; Agata, Akihiko; Morishima, Kunio; Tsutsui, Toshiaki; and Kano, Yasuhiro, 3,637,329.
- Sato, Ryuichi, 3,664,758.
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Soma, Yoshio, 3,651,544.
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Terasaki, Shingan, 3,700,340.
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Levin, Nathan D.; Niewold, Andreas; and Niklas, Wilfrid F., 3,683,194.
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Batzer, Hans; Nikles, Erwin; Ernst, Otto; and Porret, Daniel, 3,682,969.
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Ivchenko, Georgy Semenovich; Berestovoi, Anatoly Mikhailovich; Khanchas, Vladislav Fedorovich; and Nikodimov, Anatoly Pavlovich, 3,669,317.
- Nikolaeva, Militina: *See—*
Kruglikov, Anatoly Abramovich; Nikolaeva, Militina; Vilker, Simon Borisovich; and Detkov, Viktor Vasilievich, 3,689,463.
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Balevski, Angel Tontchev; and Nikolov, Ivan Dimov, 3,650,313.
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- Nikolov, Petko Petrov: *See—*
Tsvetkov, Krum Kostov; Ezekiev, Ezekiya Gueorguiev; Nikolov, Petko Petrov; and Otsetov, Vassil Christov, 3,674,991.
- Nikolsky, Leonid Alexandrovich: *See—*
Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.
- Nikonov, Vladimir Filippovich: *See—*

- Ostrovsky, Grigory Arkadievich; Orlovsky, Anatoly Georgievich; Nikonov, Vladimir Filippovich; Kalner, Veniamin Davydovich; Shklyarov, Isaak Nokhimovich; Stepin, Anatoly Loginovich; Bysink, Alexandr Moiseevich; Shepelyakovskiy, Konstantin Zakharovich; and Smrnov, Stanislav Ivanovich, 3,655,466.
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Rothrock, Elmer Weyman; and Niku, Silvio D., 3,655,090.
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Ostertag, Karl; and Nilgens, Heinrich, 3,679,114.
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Kirkpatrick, Truman; and Nilles, James Jacob, 3,677,783.
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Lynd, Langtry E.; Nilsen, Arnold; and Mac Cardle, Louis E., 3,681,047.
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Stobbe, Richard P.; and Knapp, Richard V., 3,700,904.
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- Nilsson, Hans Erik: See—
Elsner, Nils Ake; and Nilsson, Hans Erik, 3,674,513.
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Dalziel, Warren L.; Nilsson, Jay B.; and Wartner, Donald L., 3,678,481.
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Cherry, James R.; Byles, Theodore A.; and Nilsson, Ole K., 3,668,419.
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Johansson, Bengt; and Nilsson, Erland, 3,688,155.
Johansson, Bengt; and Nilsson, Erland, 3,704,388.
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Burstrom, Martin; and Nilsson, Jan, 3,654,687.
Larker, Hans; and Nilsson, Jan, 3,702,555.
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Dahlbom, Johan Richard; and Nilsson, John Lars Gunnar, 3,632,766.
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Bakke, Jan Magnus; Heikman, Harald Erik; Hakanson, Christer Lennart; and Nilsson, John Martin, 3,694,505.
- Nilsson, Lars Gunnar: See—
Berle, Axel Gunnar; Nilsson, Lars Gunnar; and Olofsson, Hans Kristoffer, 3,689,197.
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Jonell, Per Olof; and Nilsson, Sven Melker, 3,631,643.
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Najbar, Daniel J.; Parks, Christ F.; Bennett, Garry A.; and Nimerick, Kenneth H., 3,651,649.
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Weinstock, Manuel; Nimylowycz, Osyp; Wiggett, Edward J.; and Palmer, Obie, 3,653,616.
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Yamashita, Takashi; Chida, Yugo; Ninagawa, Sadayoshi; and Kato, Tetsuya, 3,704,317.
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Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,657,420.
Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,658,987.
Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,682,886.
Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,686,396.
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- Ninomiya, Kiyoshi: See—
Chiku, Takewo; Ninomiya, Kiyoshi; and Hayashi, Hiroaki, 3,707,589.
- Ninomiya, Morio: See—
Marumo, Hideo; Ninomiya, Morio; and Watanabe, Shinro, 3,671,504.
- Ninomiya, Nobukata: See—
Nagano, Akira; Ninomiya, Nobukata; and Miura, Masatsugu, 3,683,370.
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- Nipak, Inc.: See—
Orth, George O., Jr., 3,637,562.
- Nipkiem: See—
Petrov, Ivan Yordanov, 3,693,745.
- Niplex International Establishment: See—
Hyvarinen, Kauko Juhani, 3,697,156.
- Nippon Air Brake Company, Ltd.: See—
Matsumura, Yoshihiro, 3,671,083.
- Nagase, Minoru; and Matsuo, Toshiyuki, 3,685,868.
- Nagoya, Yutaka; and Toi, Toshio, 3,690,469.
- Nippon Alpin Rubber Co., Ltd.: See—
Kadowaki, Takashi; Iwasaki, Takao; Mitsuta, Yutaka; and Shimada, Kenji, 3,691,143.
- Nippon Carbide Kogyo Kabushiki Kaisha: See—
Kamio, Kosaku; Kuwana, Motoyuki; Takahashi, Atsushi; and Sihara, Masao, 3,660,332.
- Taima, Susumu; and Nozaki, Saiji, 3,646,163.
- Nippon Carbon Company Limited: See—
Ishikawa, Toshikatsu; and Teranishi, Haruo, 3,705,236.
- Nippon Chemical Kabushikikaisha (Nippon Columbia Co., Ltd.): See—
Kitazawa, Ryoze, 3,633,804.
- Nippon Cloth Industry Co., Ltd.: See—
Takenaka, Sadao; Kishida, Soichiro; and Yamazaki, Yoichi, 3,670,740.
- Yokota, Tadashi; and Asai, Taizo, 3,669,784.
- Nippon Columbia Kabushikikaisha: See—
Shiga, Takeo; Okamoto, Michio; and Kohsaka, Osamu, 3,646,270.
- Umeda, Saburo; Kizuka, Tokio; Iwai, Kiyoshi; Tsunoda, Susumu; and Hayashi, Hideaki, 3,648,945.
- Nippon Columbia Kabushikikaisha (Nippon Columbia Co., Ltd.): See—
Ise, Hideo, 3,647,338.
Kitazawa, Ryoze, 3,690,587.
Matsuda, Hitoshi; Hayashi, Hideaki; Araki, Tetsuro; and Kooa, Shinichi, 3,689,079.
Nishizawa, Masahiro, 3,677,757.
- Nippon Concrete Industries Co., Ltd.: See—
Ishihara, Yasushi; and Watanabe, Shigeru, 3,657,896.
Nishi, Seiya; Oshio, Akira; and Eto, Kiyomitsu, 3,676,541.
- Nippon Denso Company Limited: See—
Imai, Takeshi; Matsubara, Tamotsu; and Takenaka, Osamu, 3,697,913.
Kawai, Hisashi, 3,641,490.
Kawashima, Yoshichi, 3,668,504.
Okamoto, Atutoshi; Taniguchi, Koichi; Nakano, Yoshiaki; and Toyama, Koichi, 3,658,389.
Wakamatsu, Hisato; Ando, Noriyoshi; and Majima, Kazu, 3,653,726.
- Nippon Denso Kabushiki Kaisha: See—
Ando, Noriyoshi; Okamoto, Atutoshi; Taniguchi, Koichi; Nakano, Yoshiaki; and Toyama, Koichi, 3,652,132.
- Inoue, Goro, 3,649,898.
- Ito, Shigehiko; and Arai, Hiroshi, 3,651,389.
- Iwaki, Katsutaro, 3,663,946.
- Kamamazuka, Isezi; and Ohiwa, Katsuhiko, 3,683,869.
- Kunishi, Takeshi; Kawade, Yoshihiro; Yamakita, Koiti; Takaki, Ryoze; and Yamanaka, Katuhiro, 3,635,305.
- Noguchi, Masaaki; Sumiyoshi, Masaharu; Sakakibara, Shigeru; Ito, Osamu; and Kato, Takaaki (said Ito and said Kato assors. to), 3,667,322.
- Ori, Takaaki; and Kanada, Keitaro, 3,657,618.
- Sakurai, Yasuhiko, 3,636,511.
- Sato, Suguru, 3,694,898.
- Shiari, Yoshimichi; and Komori, Toshimi, 3,680,017.
- Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,640,152.
- Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,653,281.
- Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,700,079.
- Sumiyoshi, Masaharu; Sakakibara, Shigeru; Ito, Osamu; and Kato, Takaaki, 3,640,151.
- Taniguchi, Koichi, 3,640,589.
- Wakamatsu, Hisato; Kato, Takaaki; Kawakubo, Mamoru; and Ito, Katsunori, 3,641,844.
- Yamaguchi, Terumoto, 3,640,165.
- Nippon Electric Co., Limited: See—
Ueno, Yoshito; and Matsumoto, Youichi, 3,651,424.
- Nippon Electric Company: See—
Enomoto, Osamu, 3,694,812.
Ishikawa, Masaaki; and Shinoda, Daizaburo, 3,658,489.
Kaneko, Haruo; and Katagiri, Yoshio, 3,638,218.
Matsuoka, Tohru, 3,634,786.
Wada, Toshio; Onoda, Katsuhiro; Igarashi, Ryo; Nakanuma, Sho; and Tsujide, Tohru, 3,646,527.
- Nippon Electric Company, Limited: See—
Akashi, Tsuneco; Sugano, Izuru; Okuda, Taneaki; Onoda, Yoshihiro; and Tsuji, Toshiro, 3,655,841.
Akiyama, Susumu; and Naganuma, Mitsuo, 3,674,929.
Chiba, Seibi; and Sekimoto, Tadahi, 3,660,619.
Doi, Kikuo; Takahashi, Masao; Nanamatsu, Satoshi; and Fujino, Yoshio, 3,644,761.
Fujimoto, Syoji, 3,665,265.
Fukino, Katsushige, 3,704,398.
Furukawa, Motoaki, 3,695,745.
Hanaoka, Masafumi, 3,697,832.
Haneta, Yuichi, 3,649,884.
Hasegawa, Kohichi; and Kunishima, Norihiko, 3,673,580.
Horigome, Toshinori, 3,636,402.
Iijima, Hiroshi, 3,659,214.
Irie, Toshiaki; Sato, Katsuo; and Nanko, Yoshiyuki, 3,671,340.
Ishiguro, Tatsuo, 3,688,039.
Ito, Yutaka; and Hirate, Jun, 3,673,324.
Iwakami, Takuya, 3,706,053.
Kamimura, Masato; Arai, Risaburo; and Fukui, Saburo, 3,689,819.
Kamoshida, Mototaka; and Nakanuma, Sho, 3,639,813.
Kamoshida, Mototaka, 3,670,404.
Kaneko, Haruo; and Yano, Kaoru, 3,676,600.
Kaneko, Hisashi, 3,659,202.
Kaneko, Hisashi, 3,697,874.
Kato, Kotaro, 3,656,150.
Kiji, Kazuo, 3,641,495.
Kiji, Kazuo; Nishida, Nobuo; and Sakaguchi, Mitsuhiro, 3,664,722.
Kikuchi, Yoshiyasu, 3,643,069.
Kitamura, Takuo, 3,689,895.
Kitazume, Susumu; and Kasuga, Osamu, 3,657,670.
Kobayashi, Akira, 3,651,491.
Konishi, Tatsuo; and Inaba, Masao, 3,668,492.
Kouno, Akiyoshi, 3,633,058.
Kuribayashi, Michio; and Mimori, Riichi, 3,643,165.
Kuroda, Takaji, 3,678,415.
Maruyama, Mitsuhiro; Mizuno, Osamu; and Kikuchi, Sadao, 3,663,320.
Matoba, Tamuro; and Nakayama, Toshio, 3,632,327.
Matsue, Shigeki, 3,644,758.
Matsue, Shigeki, 3,703,709.
Matsukura, Yasuo; Wada, Toshio; and Ohta, Kuniichi, 3,651,348.
Matsushima, Takao, 3,649,777.
Miyakawa, Takashi; Kurita, Tomio; and Ichimura, Akira, 3,643,224.
Mori, Samio, 3,659,281.
Morishita, Masanobu, 3,652,786.
Muroga, Ko; Okuda, Jiro; Shimasaki, Nobuhiko; Terashima, Toshio; Maruyama, Yasushi; Kaneyasu, Hiroshi; Sohma, Kikuya; and Lovell, Clarence A., 3,649,767.
Naganuma, Masaaki; and Saito, Kazuyoshi, 3,706,984.
Nagao, Morimasa, 3,700,827.
Nakagiri, Masaru; Onoda, Katsuhiro; Igarashi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tohru, 3,702,466.
Nakanuma, Sho; Haneta, Yuichi; Fujimori, Keizo; and Wada, Toshio, 3,637,434.
Nakanuma, Sho; Tsujide, Tohru; and Wada, Toshio, 3,663,871.
Nakanuma, Sho; Tsujide, Tohru; Wada, Toshio; Igarashi, Ryo; and Onoda, Katsuhiro, 3,665,423.
Nakanuma, Sho; Tsujide, Tohru; and Wada, Toshio, 3,688,389.
Nakanuma, Sho; and Wada, Toshio, 3,702,790.
Nishida, Nobuo; and Sakaguchi, Mitsuhiro, 3,658,402.
Nishida, Nobuo; and Sakaguchi, Mitsuhiro, 3,677,622.
Noguchi, Shozo; and Nanko, Yoshiyuki, 3,663,868.

Ohno, Tomeji; Takahashi, Masao; Akashi, Tsuneo; and Tsubouchi, Norio, 3,654,160.
 Oikado, Taizo, 3,641,385.
 Okamoto, Kiyokazu; and Miyazaki, Masayuki, 3,634,667.
 Onoda, Katsuhiko; Igarashi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tohru, 3,651,490.
 Saito, Noriaki; and Kadota, Shinsuke, 3,706,853.
 Sakaguchi, Mitsuhiro; and Nishida, Nobuo, 3,704,929.
 Segawa, Kaoru, 3,637,995.
 Shibuya, Koji; and Takano, Teruhi, 3,671,761.
 Shigaki, Seiichi, 3,646,271.
 Shimamura, Tadao; and Takimoto, Yukio, 3,643,180.
 Shimaya, Kazunori; Kaneko, Katsuzo; Fujio, Yoshinori; and Sato, Yoshihiro, 3,701,893.
 Shinoda, Daizaburo; and Ishikawa, Masaoki, 3,699,408.
 Shinohara, Takeo; and Miyamoto, Yoshikazu, 3,699,295.
 Shonohara, Takeo; Miyamoto, Yoshikazu; Minato, Atsushi; and Maeda, Chikahiko, 3,662,345.
 Sugano, Izuru; Akashi, Tsuneo; Matsubara, Tetsujin; Kenmoku, Yoshihiro; and Okuda, Taneaki, 3,652,416.
 Sugiyama, Mineo, 3,633,103.
 Takamizawa, Hideo; Yotsuyanagi, Keiichi; and Okada, Takashi, 3,639,247.
 Tateno, Hideo; and Nemoto, Kuniharu, 3,671,339.
 Terazawa, Yoshizumi; and Ayaki, Kazuo, 3,678,317.
 Tomozawa, Atsushi, 3,659,090.
 Tomozawa, Atsushi, 3,699,261.
 Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo, 3,699,045.
 Uchida, Teiji; Shogo, Washio; and Tatsumi, Ryuji, 3,634,777.
 Uchida, Teiji; Yoshikawa, Shogo; and Ueki, Atsufumi, 3,644,842.
 Ueda, Isao; Kageyama, Takao; and Inomata, Isao, 3,675,165.
 Uehara, Kiyoshi, 3,690,546.
 Wada, Toshio; and Nakanuma, Sho, 3,659,162.
 Watanabe, Takeshi; and Saito, Yuzi, 3,700,949.
 Yamamoto, Hirohiko; and Shiraiishi, Masamichi, 3,657,610.
 Yamamoto, Hirohiko; and Shiraiishi, Masamichi, 3,668,424.
 Yanagawa, Takayuki, 3,663,872.
 Nippon Electric Company, Ltd.: See—
 Iwasa, Minetaka, 3,646,411.
 Nippon Electric Glass Company Limited: See—
 Kawamura, Susumu; and Yamaguchi, Fumio, 3,645,761.
 Nakayama, Toshio; and Horikawa, Shoichi, 3,652,247.
 Nakayama, Toshio, 3,661,547.
 Nippon Electronics Co., Ltd.: See—
 Sugiura, Kaku, 3,706,961.
 Nippon Gakki Seizo Kabushiki Kaisha: See—
 Adachi, Takeshi, 3,651,729.
 Adachi, Takeshi, 3,651,730.
 Adachi, Takeshi; and Okumura, Takatosi, 3,652,775.
 Adachi, Takeshi, 3,659,031.
 Adachi, Takeshi, 3,697,662.
 Adachi, Takeshi, 3,699,234.
 Amano, Hiroshi, 3,673,303.
 Amano, Hiroshi, 3,705,254.
 Ezaki, Hideyuki, 3,636,809.
 Harada, Eiji, 3,688,634.
 Hirano, Katsuhiko, 3,637,915.
 Hirano, Katsuhiko, 3,665,091.
 Hirose, Yasunori, 3,663,737.
 Hiyama, Ryu, 3,634,594.
 Hiyama, Ryu, 3,636,232.
 Hiyama, Ryu, 3,637,914.
 Hiyama, Ryu, 3,657,463.
 Hiyama, Ryu, 3,672,253.
 Hiyama, Ryu, 3,697,664.
 Hiyama, Ryu, 3,694,562.
 Hoshi, Juro, 3,696,301.
 Ichikawa, Kiyoshi, 3,636,801.
 Ichikawa, Kiyoshi, 3,707,594.
 Izuta, Tadao, 3,670,712.
 Izuta, Tadao, 3,683,883.
 Izuta, Tadao, 3,695,248.
 Kita, Hidehiko, 3,671,660.
 Kondo, Masaru, 3,694,884.
 Ludemann, Ingo, 3,674,908.
 Matsui, Teruyoshi, 3,683,293.
 Matsuura, Hideo; Imagawa, Katsuhiko; and Murase, Yoshihiko, 3,669,214.
 Matsuura, Hideo; Kurokawa, Ikuji; and Murase, Yoshihiko, 3,691,892.
 Murakami, Shin-ichi, 3,663,733.
 Muraki, Shuji, 3,663,776.
 Murase, Yoshihiko, 3,674,109.
 Nagano, Takehiko, 3,634,593.
 Nagao, Akira, 3,635,117.
 Nagao, Akira, 3,688,633.
 Nakada, Seizi, 3,663,738.
 Niinomi, Naoyuki, 3,704,339.
 Ogawa, Yukihiko, 3,671,011.
 Ohashi, Yoshio, 3,679,022.
 Ohno, Junji, 3,633,145.
 Ohno, Junji, 3,652,774.
 Ohno, Junji, 3,671,658.
 Ohno, Junji, 3,693,492.
 Okumura, Takatoshi, 3,702,443.
 Sotome, Hiromi, 3,645,356.
 Sotome, Hiromi, 3,665,124.
 Suzuki, Akihisa, 3,688,054.
 Suzuki, Nobuhiko, 3,675,173.
 Suzuki, Seioichi; and Okumura, Takatosi, 3,694,559.
 Suzuki, Syoichi, 3,671,659.
 Suzuki, Syoichi, 3,699,233.
 Tachida, Hiroki, 3,696,699.
 Takabayashi, Yoshikazu, 3,664,911.
 Tomisawa, Norio, 3,651,337.
 Tomisawa, Norio, 3,654,558.
 Tomisawa, Norio, 3,663,736.
 Tomisawa, Norio, 3,700,783.
 Tomisawa, Norio, 3,705,948.
 Uchiyama, Yasuji, 3,651,336.
 Uchiyama, Yasuji, 3,699,466.
 Uchiyama, Yasuji, 3,700,782.
 Yoshihara, Kenji, 3,699,492.
 Nippon Gosei Kagaku Kogyo Kabushiki Kaisha: See—
 Goi, Mitsuhiro; Kageyama, Satoru; and Mizuno, Nobuo, 3,634,349.
 Nippon Hatsujo Company, Limited: See—
 Saitoh, Kohichi; Ohkubo, Nobuo; Sobajima, Katsunobu; and Hirano, Takeshi, 3,672,656.
 Nippon Hoso Kyokai: See—
 Kamegaya, Takeo; Imahori, Yutaka; Ohta, Akira; Kanoh, Tadao; and Ohara, Akio, 3,670,195.
 Kaneko, Ryuchii; Saito, Toshiya; Fujimura, Yasushi; Tanimura, Hiroshi; Nakamura, Totaro; and Ikeda, Yukisaburo, 3,676,585.
 Toyonaga, Ryuya; and Sato, Kazuo, 3,672,989.
 Yamaguchi, Yukiya; Fukushima, Kunihiko; Yasuda, Minoru; and Nagata, Shojiro, 3,701,095.
 Nippon Jakki Seizo Kabushiki Kaisha: See—
 Okamoto, Eisaku, 3,646,242.
 Nippon Kakoh Seishi K.K.: See—
 Katagiri, Keizo; Kuroishi, Kenji; Nakamura, Kazuchika; and Hagiwara, Katsutoshi, 3,661,671.
 Nippon Kayaku Kabushiki Kaisha: See—
 Kuroki, Nobuhiko; Komatsu, Kiroku; Tamura, Shuji; and Matsumoto, Hiroyuki, 3,695,821.
 Seino, Shuichi; Fujino, Tomizo; and Tonegawa, Kakuji, 3,637,672.
 Takenaka, Shigeo; and Iwamoto, Akira, 3,669,949.
 Nippon Kogaku K.K.: See—
 Akasaka, Shigeo, 3,636,847.
 Daitoku, Kouichi; and Kimura, Shuji, 3,643,576.
 Daitoku, Kouichi; and Kimura, Shuji, 3,679,148.
 Fujii, Tatsuo; and Watano, Yutaka, 3,639,881.
 Fujii, Tatsuo, 3,646,861.
 Fujii, Tatsuo; and Watano, Yutaka, 3,676,823.
 Fujii, Tatsuo; and Tomomitsu, Toshio, 3,700,337.
 Furuta, Koichi, 3,682,060.
 Furuta, Koichi, 3,687,039.
 Furuta, Koichi, 3,693,524.
 Hidenobu, Kondo, 3,633,480.
 Hori, Kunihiko; and Okuno, Keno, 3,631,779.
 Hori, Kunihiko; and Okuno, Keno, 3,635,136.
 Hori, Kunihiko; and Okuno, Keno, 3,636,843.
 Iida, Yozo, 3,663,093.
 Iida, Yozo, 3,692,395.
 Iida, Yozo; and Nozawa, Hideyo, 3,695,551.
 Imai, Toshifumi, 3,664,749.
 Ishizaka, Sunao, 3,675,550.
 Katsuyama, Yoshihisa, 3,644,025.
 Katsuyama, Yoshihisa, 3,688,673.
 Kawakami, Tadashi, 3,687,038.
 Kimura, Shuji, 3,640,201.
 Kimura, Shuji, 3,645,182.
 Kimura, Shuji, 3,651,747.
 Kondo, Hidenobu, 3,653,312.
 Kuroha, Noboru, 3,683,704.
 Maida, Osamu, 3,703,649.
 Mori, Ikuo, 3,635,546.
 Mori, Ikuo; and Matsuki, Keiji, 3,661,446.
 Mori, Ikuo, 3,663,095.
 Muryoi, Takeshi, 3,657,989.
 Muryoi, Takeshi, 3,672,287.
 Nakamura, Souichi, 3,632,188.
 Nozawa, Hideyo, 3,695,752.
 Nozawa, Hideyo, 3,701,593.
 Ohno, Masao; and Kijima, Katsumi, 3,671,277.
 Ohyama, Hideki, 3,694,090.
 Ono, Shigeo, 3,641,890.
 Ono, Shigeo, 3,643,575.

Ono, Shigeo, 3,646,867.
 Sato, Akihiko; and Takahashi, Minoru, 3,645,467.
 Sato, Akihiko, 3,653,311.
 Shigeo, Ono, 3,683,776.
 Shimizu, Terushige, 3,631,787.
 Shimizu, Terushige, 3,661,339.
 Shimizu, Yoshiyuki, 3,632,190.
 Shimomura, Jun, 3,699,864.
 Shimomura, Jun, 3,699,868.
 Shio, Megumu, 3,669,524.
 Sobajima, Masaru, 3,701,580.
 Takahashi, Kinji, 3,661,440.
 Takahashi, Kinji; and Shio, Megumu, 3,679,287.
 Tanaka, Hiroshi; and Arai, Toshiyuki, 3,679,296.
 Tanaka, Hiroshi, 3,695,758.
 Tomoitsu, Toshio; and Fujii, Tatsuo, 3,648,579.
 Tomomitsu, Toshio; and Fujii, Tatsuo, 3,671,769.
 Tsukamoto, Masaaki; Fujii, Tatsuo; and Ono, Shigeo, 3,675,179.
 Tsunekawa, Munehisa, 3,653,933.
 Tsuruoka, Tomio, 3,641,899.
 Tsuruta, Tadao, 3,639,030.
 Watanabe, Asao, 3,679,905.
 Watanabe, Asao, 3,703,130.
 Yamada, Takeo, 3,672,282.
 Yamada, Takeo; and Ono, Shigeo, 3,693,518.
 Yamamoto, Tadaaki; and Kasai, Toshiyuki, 3,687,555.
 Yozo, Iida, 3,689,137.
 Nippon Kogaku K.K.; represented by Yutaka Sugi: See—
 Yamamoto, Tadaaki; and Kasai, Toshiyuki, 3,675,986.
 Nippon Kogei Kogyo Co., Ltd.: See—
 Watanabe, Tamotsu, 3,653,593.
 Watanabe, Tamotsu; and Onoue, Fumio, 3,667,676.
 Watanabe, Tamotsu; Vando, Yasuo; and Tsurugi, Kozaburo, 3,693,882.
 Watanabe, Tamotsu, 3,695,001.
 Nippon Kokan Kabushiki Kaisha: See—
 Ando, Ryo; and Fukushima, Tsutomu, 3,664,827.
 Arimura, Tohru; Kamata, Masamoto; Okado, Masaru; and Ichimaru, Takarokuro, 3,641,325.
 Arimura, Tohru; Kamata, Masamoto; Saito, Morio; Suzuki, Hiromu; and Iguchi, Masakazu, 3,677,045.
 Hatagi, Hiroyuki; Kanamaru, Kenichi; and Funasaki, Yasuo, 3,678,226.
 Iijima, Hiroshi; Terasaka, Masaji; and Tokita, Osamu, 3,701,693.
 Imai, Ryoichi; and Kawai, Yoshihiko, 3,645,720.
 Isobe, Kenjiro; Tsuji, Hitoshi; Kawahata, Shigeo; Mori, Eiji; and Ito, Katsuhiko, 3,657,910.
 Kambayashi, Akira; and Shimada, Shun-ichi, 3,656,942.
 Kambayashi, Akira; Shun-ichi, Kawasaki; and Ehara, Takashi, 3,664,830.
 Kawakami, Kiminari; and Yamagishi, Shizunao, 3,681,057.
 Kawato, Tomoyoshi; Kusakabe, Takashi; and Ono, Toshiyuki, 3,648,008.
 Kikkawa, Osamu; and Kambayashi, Akira, 3,656,917.
 Kimura, Kenji; Watando, Kousaku; and Kadota, Osamu, 3,665,848.
 Kodama, Hisashi; Sekigawa, Tsuneo; Hatat, Kazumi; and Nakaya, Akimichi, 3,702,538.
 Kubota, Hiroyuki; Tamada, Akihiro; and Uemura, Motonori, 3,684,493.
 Kubotera, Haruo; Nakaoka, Kazuhide; Watanabe, Kaoru; and Tanaka, Teruhisa, 3,657,022.
 Kunioka, Kazuo; Shimizu, Shigenari; and Hirata, Masaru, 3,659,428.
 Miyashita, Yoshio; Nishikawa, Katuhiko; and Sata, Toshio, 3,647,425.
 Miyata, Akira; Tomita, Chikayoshi; Suzuki, Akio; Okubo, Hideyo; and Nagakumi, Masahiko, 3,699,012.
 Miyata, Akira; Okubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, 3,701,677.
 Miyato, Akira; Ohkubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, 3,699,013.
 Mori, Kunio; and Shirage, Yoshio, 3,668,729.
 Muto, Iwao; Matsumura, Yutaka; Nishifujii, Katsuyuki; and Matsumura, Kenji, 3,670,562.
 Nagai, Hiroshi; and Kamimura, Haruo, 3,701,272.
 Nomura, Hirokazu, 3,634,650.
 Nomura, Hirokazu; Mimura, Michio; and Ono, Yoshiyuki, 3,654,425.
 Nomura, Hirokazu, 3,656,680.
 Nomura, Hirokazu; and Sasaki, Akira, 3,668,364.
 Nomura, Hirokazu, 3,702,914.
 Nomura, Hirokazu, 3,704,822.
 Osuka, Tatsumi; and Oouchi, Chiaki, 3,701,694.
 Sakai, Makoto; and Miyao, Shinichi, 3,662,075.
 Shimotsuna, Teruo; Mori, Toshihiro; Sano, Kazuo; and Ando, Seigo, 3,635,085.
 Shimotsuna, Teruo; Mori, Toshihiro; and Sano, Kazuo, 3,644,667.
 Soeda, Shigeki; and Nemoto, Hidetaro, 3,695,341.
 Sugawara, Tsunenori; Shibuya, Teiji; Miyakado, Satoru; and Mase, Jiro, 3,695,466.
 Takamatsu, Hideaki; Miyata, Akira; and Toyabe, Yutaka (said Miyata assor. to), 3,660,052.
 Tomiyama, Takeshi; and Sudow, Masanobu, 3,653,352.
 Yamagishi, Hidehisa; Gunji, Naoki; and Takeuchi, Masao, 3,647,650.
 Yamagishi, Hidehisa; Takano, Hiroshi; and Takeuchi, Masao, 3,679,554.
 Yamagishi, Hidehisa; Yokoi, Fumitoshi; and Takahashi, Tadao, 3,690,940.
 Yamagishi, Hidehisa; and Tanaka, Mizuo, 3,702,287.
 Yamaguchi, Yoshio; and Watanabe, Osamu, 3,646,806.
 Nippon Mining Co., Ltd.: See—
 Asui, Hiroshi; and Takahashi, Mitsuo, 3,701,647.
 Ishimatsu, Kazuhiko; and Nakahara, Takao, 3,692,294.
 Otsuka, Takeshi, 3,658,466.
 Watanabe, Masami; Namikawa, Keishi; Yasuda, Kotaro; and Takagi, Motoyoshi, 3,697,605.
 Nippon Oil Company, Limited: See—
 Horie, Tatsuo; Fujiwara, Yasuo; and Takezono, Tetsuya, 3,634,524.
 Horie, Tatsuo; and Hayashi, Shigeyuki, 3,646,237.
 Horie, Tatsuo, 3,651,165.
 Horie, Tatsuo; Yamamoto, Syunichi; and Gotoh, Shinji, 3,705,204.
 Oguchi, Yutaka; and Nomura, Hirotosugu, 3,705,861.
 Takase, Shinji; and Shiori, Tomonori, 3,691,255.
 Takase, Shinji; and Shiori, Tomonori, 3,699,056.
 Waragai, Toshihiko; Kawaguchi, Hideo; and Saegusa, Takeo, 3,651,161.
 Nippon Oil Seal Industry Co., Ltd.: See—
 Matsumoto, Shigeru; and Gotoh, Toshiaki, 3,677,605.
 Matsushima, Akira, 3,682,488.
 Takaoda, Tsuneo; Ohta, Tetsuya; and Itoh, Masaru, 3,691,111.
 Nippon Oils and Fats Company Limited: See—
 Koshimura, Masamitsu; Haruta, Yukinori; Matsuzaka, Junichi; and Wako, Shinichi, 3,663,599.
 Yoshida, Toyohiko; Wako, Shinichi; Koshimura, Masamitsu; Matsuzaka, Junichi; and Haruta, Yukinori, 3,657,384.
 Nippon Paint Co., Ltd.: See—
 Nagata, Nobuyoshi; and Yamazaki, Tsuguo, 3,652,313.
 Oyabu, Yoshiaki; Furuno, Nobuo; Kawahara, Tomosaburo; and Kawai, Hitoshi, 3,707,446.
 Tanekusa, Toshimi; Takasawa, Hideaki; and Yamahata, Achihiro, 3,679,626.
 Nippon Petrochemicals Co., Ltd.: See—
 Horie, Tatsuo; Fuchigami, Tatsuo; and Okazawa, Mitsuo, 3,660,366.
 Nippon Petroleum Refining Company: See—
 Terashima, Toru, 3,670,759.
 Nippon Piston Ring Co., Ltd.: See—
 Matsumoto, Yoshio, 3,656,767.
 Miyamoto, Mikio, 3,663,030.
 Sugahara, Eisuke, 3,650,537.
 Sugahara, Eisuke, 3,677,558.
 Sugahara, Eisuke, 3,683,477.
 Takahashi, Kentaro; and Sato, Yoshihito, 3,689,986.
 Togami, Shunji, 3,669,461.
 Nippon Piston Ring Kabushiki Kaisha: See—
 Iizuka, Kouichi, 3,661,402.
 Sugahara, Eisuke, 3,664,153.
 Umezawa, Kouji, 3,671,047.
 Nippon Plawder Co.: See—
 Hagitani, Akira; and Morita, Yoshishige, 3,642,970.
 Nippon Pneumatic Manufacturing Company Limited: See—
 Terada, Hiromu, 3,684,034.
 Yamanaka, Takanobu, 3,661,216.
 Nippon Rayon Company Limited: See—
 Maeda, Yutaka; Kimura, Hiroshi; Koshimo, Akio; Kanzaki, Nagamasa; Yasuzuka, Katsumi; and Furukawa, Yoshinobu, 3,643,412.
 Nippon Rayon Kabushiki Kaisha: See—
 Kuga, Mutsuo; Mashimo, Takeshi; Arai, Teruo; and Yano, Yoshihiko, 3,632,728.
 Obuchi, Satoru; Fukuoka, Tokuji; Nagato, Saburyo; Murakami, Kunio; Shigeta, Tamikazu; and Hayashi, Hiroyuki, 3,682,687.
 Nippon Rayon Kabushiki Kaisha (Nippon Rayon Co., Ltd.): See—
 Tsuruta, Motohiro; Kimura, Hiroshi; Koshimo, Akio; Nara, Hirohisa; Goto, Tokuju; Amemiya, Kunio; and Matusaka, Hideki, 3,637,427.
 Nippon Rensui Kabushiki Kaisha: See—
 Hagiwara, Zenji, 3,701,638.
 Nippon Seal Co., Ltd.: See—
 Tsuruzawa, Teruya, 3,648,318.
 Nippon Seiko Kabushiki Kaisha: See—
 Mizukoshi, Yasumasa; and Yanagimoto, Masato, 3,661,031.
 Ooki, Nobugi; and Okubo, Kenji, 3,663,992.
 Ooki, Nobugi, 3,665,559.
 Suzuki, Toshio, 3,677,032.
 Takahashi, Tadanobu; and Kan, Yoshiro, 3,642,335.

Takahashi, Tadanobu; and Usami, Kunihiko, 3,669,519.
 Nippon Seisen Co., Ltd.: *See—*
 Kokubu, Kaoru; and Hirai, Osami, 3,643,304.
 Nippon Selfoc Company, Limited: *See—*
 Uchida, Teiji; Furukawa, Motoaki; Yoshikawa, Shogo; Kitano, Ichiro; and Koizumi, Ken, 3,633,992.
 Uchida, Teiji, 3,663,822.
 Nippon Selfoc Company, Limited; c/o Nippon Electric Company, Limited: *See—*
 Uchida, Teiji; and Furukawa, Motoaki, 3,633,034.
 Uchida, Teiji; and Furukawa, Motoaki, 3,633,035.
 Ueki, Atsufumi; and Tatsumi, Ryuji, 3,643,097.
 Nippon Selfoc Kabushiki Kaisha: *See—*
 Kitano, Ichiro; and Matsumura, Hiroyoshi, 3,667,832.
 Matsumura, Hiroyoshi; Yoshikawa, Shogo; and Tatsumi, Ryuji, 3,637,295.
 Matsushita, Kazuo; Koizumi, Ken; Togo, Hidetoshi; and Kimura, Hajime, 3,657,586.
 Nippon Selfoc Kabushiki Kaisha; a/k/a Nippon Selfoc Co., Ltd.: *See—*
 Irie, Masanori, 3,639,035.
 Kitano, Ichiro; Koizumi, Ken; Ikeda, Yoshiro; and Matsumura, Hiroyoshi, 3,650,598.
 Kitano, Ichiro; Koizumi, Ken; Matsumura, Hiroyoshi; Ikeda, Koji; and Uchida, Teiji, 3,658,407.
 Kitano, Ichiro; and Matsumura, Hiroyoshi, 3,666,347.
 Miyauchi, Tsuneshige; Hirano, Jiro; Ueki, Atsufumi; Tatsumi, Ryuji; Mukai, Kunihiko; and Yoshikawa, Shogo, 3,655,259.
 Nippon Sheet Glass Co., Ltd.: *See—*
 Fujimoto, Yukiya; and Kurashina, Isao, 3,645,709.
 Inoue, Tsuru; Yamada, Tetsuya; and Noguichi, Seizo, 3,669,639.
 Ishihara, Kazuo; Segawa, Toyoo; and Zaita, Hiroaki, 3,645,525.
 Ito, Kunihiko; Fujimoto, Yukiya; Ohsato, Nobuyoshi; and Akashi, Naotomo, 3,661,548.
 Kita, Hideo; and Ito, Kunihiko, 3,637,361.
 Kushihashi, Akira; and Ikeda, Koji, 3,679,386.
 Kushihashi, Akira; and Manabe, Seiichiro, 3,694,337.
 Matsushita, Masanari, 3,684,471.
 Motai, Hirokazu, 3,652,370.
 Nippon Shokubai Kagaku Kogyo Co., Ltd.: *See—*
 Imai, Masaya; Izubayashi, Masuji; Takiyama, Keiichi; Hirai, Mitsuo; and Nikki, Masao, 3,647,904.
 Oda, Kenzo; Okuda, Yukio; Kurata, Naoji; Koshida, Kazuo; and Tsuchino, Masatoshi, 3,660,504.
 Sawano, Toshimi; Koike, Hiroshi; Kurata, Naoji; and Okuda, Yukio, 3,660,471.
 Nippon Soda Co., Ltd.: *See—*
 Homma, Shumzo; and Harada, Minoru, 3,669,648.
 Hoshino, Yutaka; Iwaki, Yoshikazu; Matsukawa, Koshiro; Nakada, Akira; Sato, Fumio; and Uno, Kazuo, 3,687,913.
 Ishii, Keiichi; Ueyama, Michio; Miyazaki, Koshin; and Noto, Tetsuo, 3,677,777.
 Miura, Kazuo; Sekigawa, Shichitaro; Nishizawa, Kyosaku; and Nishimura, Kazuo, 3,652,539.
 Nagahisa, Masanori; Kusaka, Yoshimi; Iino, Koji; and Yamamoto, Zemichiro, 3,681,276.
 Noguchi, Teruhisa; Asada, Mitsuo; Sakimoto, Reiji; and Hashimoto, Koichi, 3,689,547.
 Shibata, Minoru; Yusa, Makoto; Nakata, Hisao; and Harada, Michisuke, 3,705,866.
 Suzuki, Hisao; Musashi, Akira; Hiruta, Makoto; and Muramoto, Hiroo, 3,678,014.
 Nippon Soda Kabushiki Kaisha: *See—*
 Fujii, Koichi; Sakai, Tomoo; and Kikuchi, Ichiro, 3,694,170.
 Nippon Steel Chemical Co., Ltd.: *See—*
 Inoue, Hiroharu; Fujimoto, Kenichi; and Suenaga, Yasushi, 3,636,179.
 Nippon Steel Corporation: *See—*
 Akuta, Tomohiko; Honsyo, Yoshi; Hashirizaki, Sinya; Hiruma, Teruo; and Kurasawa, Kazuo, 3,678,192.
 Asano, Hidejiro; and Ouyagi, Yashichi, 3,677,797.
 Fukada, Kenzo, 3,658,171.
 Hara, Yoshiaki; Masagaki, Akio; and Iguchi, Masaaki, 3,692,293.
 Hiya, Yoshio; Fujita, Haruo; Tsunetomi, Eiichi; Okada, Kan; and Kude, Satoshi, 3,681,564.
 Ishibashi, Yoshiyuki; and Kishikawa, Kanichi, 3,657,912.
 Iwao, Norito; Naito Koichiro; Kawaguchi, Tadashi; Maeda, Minoru; and Norita, Toshihito, 3,681,052.
 Kishikawa, Kanichi; Kuwata, Takeo; Kinoshita, Kentaro; Tsuchiya, Takao; and Kamogawa, Yoshiro, 3,678,721.
 Kumai, Ko; Motoyoshi, Minoru; Tanaka, Kiyoshi; and Hagiwara, Yasuhira, 3,671,337.
 Matsumoto, Fumio; Wada, Toshiya; Yamamoto, Takaaki; Tanaka, Osamu; Takashima, Kunihide; and Takata, Toshihiko, 3,676,227.
 Mori, Haruki; Takahashi, Toshinao; and Koyama, Eisuke, 3,643,147.

Nagashima, Shinichi; Takechi, Hiroshi; Matsuo, Youichi; Kato, Hiroshi; Shimizu, Mineo; and Takahashi, Nobuyuki, 3,642,468.
 Nishihara, Toshiro; Asano, Hidejiro; Maeda, Shigeyoshi; and Oyagi, Yashichi, 3,704,181.
 Ogi, Hideo; Ozaki, Haruo; Mishi, Masaru; Horikawa, Yoshikazu; and Mori, Shunji, 3,646,772.
 Oishi, Masashi; Shimada, Michihiko; Nakayama, Yuji; Naito, Koichiro; and Okamoto, Kazuhiko, 3,669,645.
 Okamoto, Kazuo; Eguchi, Naoki; Sakao, Nasuo; Honda, Ichiro; and Suzuki, Eizo, 3,647,571.
 Sakakura, Akira; Yamamoto, Takaaki; Taguchi, Satoru; and Ueno, Kiyoshi, 3,632,456.
 Sakakura, Akira; Taguchi, Satoru; Wada, Toshiya; Ueno, Kiyoshi; Yamamoto, Takaaki; and Urushiyama, Nabuo, 3,636,579.
 Shimizu, Mineo; Takechi, Hiroshi; Kajoka, Hiroyuki; and Kawaharada, Minoru, 3,668,016.
 Tanaka, Osamu; and Matsumoto, Fumio, 3,700,506.
 Ueshima, Kumao; Fukada, Kenzo; Yoshinaga, Masakazu; and Nakazona, Kiroshi, 3,701,516.
 Urushiyama, Nobuo; Koshiishi, Hiromichi; and Akanuma, Kaneo, 3,632,362.
 Urushiyama, Nobuo; Yoshio, Minoru; and Miyata, Takamitsu, 3,653,984.
 Watanabe, Shozo; Ooka, Takayuki; Takemura, Susumu; and Arakawa, Mothohiko, 3,653,981.
 Yonezawa, Toshiya; Kogumasaka, Katsuya; and Kinoshita, Katsuhiko, 3,648,996.
 Nippon Telegraph and Telephone Public Corporation: *See—*
 Ninomiya, Shoichi; Sakai, Masaaki; Oka, Sakae; and Kusunoki, Kikunobu, 3,675,224.
 Nippon Telegraph and Telephone Public Corporation: *See—*
 Karikomi, Masahiro, 3,680,141.
 Koyama, Masaki; Shimada, Sadakuni; and Karikomi, Masahiro, 3,698,001.
 Kumagai, Denroku; and Kurahashi, Yutaka, 3,663,761.
 Matsuda, Ryoichi; Kawashima, Isao; and Terai, Masaaki, 3,681,538.
 Miyakawa, Takashi; Kurita, Tomio; and Ichimura, Akira, 3,643,224.
 Mizushima, Yoshihiko; and Kawarada, Kuniyasu, 3,638,082.
 Mizushima, Yoshiko; and Sudo, Tsuneta, 3,657,616.
 Mori, Yoshitomi, 3,676,778.
 Mukai, Hisakazu; Kindo, Hideaki; Sugahara, Yoshimasa; and Yamagata, Akinori, 3,648,064.
 Nakagami, Norihiko; Tanaka, Yasuyuki; Kotaka, Katsuhiko; and Seki, Masamitsu, 3,652,806.
 Saito, Shuzo; Itakura, Fumitada; Nishikawa, Masaaki; and Koike, Tsunehiko, 3,662,115.
 Uchida, Naoya; Ohmachi, Yoshiro; and Niizeki, Nobukazu, 3,661,441.
 Uchida, Naoya; Ohmachi, Yoshiro; Niizeki, Nobukazu; Miyazawa, Shintaro; and Iwasaki, Hiroshi, 3,671,103.
 Usuda, Shogo; Mizusasa, Susumu; and Tateno, Harunobu, 3,701,857.
 Watanabe, Yoshio; and Sakai, Tetsushi, 3,640,806.
 Yamamoto, Kazuyuki; and Matsuda, Ryoichi, 3,668,312.
 Yoshida, Zengo; Miyazaki, Hiroshi; Yoshida, Tokuji; and Kobayashi, Hiroaki, 3,635,007.
 Nippon Television Hosomo Kabushiki Kaisha: *See—*
 Doi, Yoshikazu; Kishikawa, Toshiro; and Nomura, Hiroshi, 3,681,521.
 Nippon Tensai Seito Kabushiki Kaisha: *See—*
 Shoji, Yoshio; Kobayashi, Toshiaki; and Kudo, Tadao, 3,661,682.
 Nippon Toki Kabushiki Kaisha: *See—*
 Henmi, Yoshinori; Suzuki, Hideaki; and Kamiya, Tadao, 3,632,320.
 Motoyuki, Inoue, 3,650,817.
 Yoshikawa, Takayuki; Maki, Hironobu; and Kamiya, Tadao, 3,631,638.
 Nippon Yakin Kogyo Company Limited: *See—*
 Itoh, Yohnosuke; Miki, Masataka; Nishiyama, Makoto; Uda, Yuhnosuke; and Terashima, Masaaki, 3,682,469.
 Nippon Yushi Kabushiki Kaisha: *See—*
 Masuda, Hiromasa; Nishigaki, Eiiti; and Maeda, Tomosuke, 3,671,496.
 Nippondenso Co., Ltd.: *See—*
 Ishihara, Masaru; and Kobayashi, Yukio, 3,689,804.
 Oishi, Kazuo; Ando, Noriyoshi; and Yoshida, Hiroshi, 3,688,306.
 Okada, Masashi; and Sogabe, Ichita, 3,695,381.
 Ori, Takaaki, 3,684,938.
 Nippondenso Kabushiki Kaisha: *See—*
 Arai, Hiroshi; Nakamura, Akira; Okamoto, Atutoshi; Okumura, Shunji; Suzuki, Motoyoshi; and Sugiyama, Akio, 3,690,735.
 Arai, Hiroshi; Nakamura, Akira; Okamoto, Atutoshi; and Okumura, Shunji, 3,701,569.

Arai, Hiroshi; Nakamura, Akira; Okamoto, Atutoshi; and Okumura, Shunji, 3,702,205.
 Endo, Kunio, 3,664,311.
 Fujii, Minoru, 3,641,377.
 Fujisawa, Hideya, 3,670,706.
 Hobo, Nobuhito; Natsume, Yoshimi; and Kaga, Sumihiro, 3,685,526.
 Hobo, Nobuhito, 3,705,991.
 Ishikawa, Toshio; and Yamamoto, Yosizi, 3,654,481.
 Ito, Isao, 3,704,903.
 Ito, Mikiji; Yamada, Kenji; and Noda, Kazuo, 3,654,763.
 Ito, Osamu, 3,673,400.
 Kamazuka, Iseji, 3,665,898.
 Kato, Masumi; and Morita, Yoshiyuki, 3,656,208.
 Kato, Takaaki, 3,648,808.
 Kato, Takaaki; Kawakubo, Mamoru; Ito, Katsunori; and Wakamatsu, Hisato, 3,665,213.
 Kato, Takaaki; Kawakubo, Mamoru; and Ito, Katsunori, 3,673,892.
 Kawai, Hisasi; and Amaki, Masami, 3,686,583.
 Kawashima, Yoshichi, 3,707,635.
 Kobayashi, Hisanori, 3,651,791.
 Kondo, Yasuo, 3,649,033.
 Kubo, Seitoku; Mori, Takakazu; Wakamatsu, Hisato; and Kawai, Hisasi, 3,684,066.
 Mase, Takehisa; Kawaura, Hiroshi; Yamaguchi, Terumoto; and Amano, Yosinao, 3,655,142.
 Masuda, Mitsuo; and Ota, Nobuyoshi, 3,649,936.
 Matsui, Kazuma; and Tsubouchi, Hideo, 3,690,306.
 Numazawa, Akio; and Ito, Osamu, 3,645,366.
 Oishi, Kazuo, 3,653,367.
 Oishi, Kazuo; Kurebayashi, Tokuhiko; Ando, Noriyoshi; Yamamoto, Noboru; and Yoshida, Hiroshi, 3,660,689.
 Oishi, Kazuo, 3,665,908.
 Oishi, Kazuo; Kurebayashi, Tokuhiko; Ando, Noriyoshi; Yamamoto, Noboru; and Yoshida, Hiroshi, 3,677,253.
 Okamoto, Atutoshi; Ando, Noriyoshi; Toyama, Koichi; Sumiyoshi, Masaharu; Nakao, Hisaji; and Watanabe, Hisashi, 3,635,531.
 Okamoto, Atutoshi, 3,650,575.
 Okamoto, Atutoshi; and Okumura, Shunji, 3,654,487.
 Sato, Suguru, 3,641,374.
 Suda, Toshi; and Kobayashi, Hisanori, 3,680,537.
 Sumiyoshi, Masaharu; Sakakibara, Shigeru; Wakamatsu, Hisato; and Kato, Takaaki, 3,690,197.
 Takeda, Yosaki, 3,678,224.
 Toyoda, Eiji; Noguchi, Masaaki; and Ito, Osamu, 3,693,479.
 Wakamatsu, Hisato; Kitano, Akira; and Kawai, Hisasi, 3,652,901.
 Wakamatsu, Hisato; Kitano, Akira; and Kawai, Hisasi, 3,662,625.
 Wakamatsu, Hisato; Kawai, Hisasi; Ito, Shin; and Kubo, Seitoku, 3,675,511.
 Wakamatsu, Hisato; Kato, Takaaki; Kawakubo, Mamoru; and Ito, Katsunori, 3,683,720.
 Wakamatsu, Hisato; and Endo, Kinio, 3,692,003.
 Wakamatsu, Hisato; Kitano, Akira; and Kawai, Hisasi, 3,702,572.
 Yamaguchi, Shunzo; and Tanaka, Eizi, 3,688,835.
 Yonezu, Hisashi, 3,664,148.
 Yonezu, Hisashi, 3,688,134.
 Niquet, Samuel. Drill sharpening device. 3,703,055, 11-21-72, Cl. 51-219.000.
 Nisbet, John L.; and Woodall, Hubert C., Jr., to Carolina Narrow Fabric Company. Finished glass textile materials and method of forming same. 3,654,056, 4-4-72, Cl. 161-62.
 Nisbet, John L.; and Woodall, Hubert C., Jr., to Carolina Narrow Fabric Company. Method of forming glass fabric suitable for casts, bandages, and the like. 3,686,725, 8-29-72, Cl. 28-74.00r.
 Nischk, Gunter: *See—*
 Wolf, Gerhard D.; Blankenstein, Gunter; and Nischk, Gunter, 3,676,525.
 Nischk, Gunter: *See—*
 Bentz, Francis; Lesch, Dieter; and Nischk, Gunter, 3,634,519.
 Gallus, Manfred; Lorenz, Gunter; and Nischk, Gunter, 3,637,594.
 Gilch, Heinrich; Darsow, Gerhard; Bottenbruch, Ludwig; Lorenz, Gunter; Kunzel, Hans Egon; Nischk, Gunter; and Schnell, Hermann, 3,642,882.
 Kunzel, Hans Egon; Wolf, Gerhard Dieter; Blankenstein, Gunter; and Nischk, Gunter, 3,671,614.
 Lorenz, Gunter; Gallus, Manfred; Giessler, Wolfgang; and Nischk, Gunter, 3,669,928.
 Lorenz, Gunter; Binkler, Heinrich; and Nischk, Gunter, 3,694,493.
 Radlmann, Eduard; Ruetz, Lothar; and Nischk, Gunter, 3,660,356.
 Radlmann, Eduard; Kohler, Armin; Konig, Klaus; and Nischk, Gunter, 3,682,861.

Rinkler, Heinrich; Braden, Rudolf; and Nischk, Gunter, 3,673,242.
 Szita, Jeno; Bahr, Ulrich; Marzolph, Herbert; and Nischk, Gunter, 3,666,722.
 Wieden, Horst; Rellensmann, Wolfgang; Dieterich, Dieter; and Nischk, Gunter, 3,634,360.
 Nischk, Gunter-Ernst: *See—*
 Engelhard, Helmut; Bentz, Francis; Giebler, Wolfgang; and Nischk, Gunter-Ernst, 3,634,545.
 Nischk, Wolfgang: *See—*
 Koberstein, Edgar; and Nischk, Wolfgang, 3,644,467.
 Koberstein, Edgar; and Nischk, Wolfgang, 3,644,468.
 Nischwitz, Ehrenfried: *See—*
 Lebkuecher, Karl Heinz; Nischwitz, Ehrenfried; and Schinzel, Erich, 3,663,538.
 Nise, Wilfred C.; and Lowder, Dale E., to Clarke Floor Machine Company; division of Studebaker Corporation. Heavy duty vacuum cleaner. 3,678,524, 7-25-72, Cl. 15-49.000.
 Nisenson, Jules, to Kelvin Research Corporation. Electrostatic reproduction device. 3,697,168, 10-10-72, Cl. 355-12.000.
 Nisenson, Stanley M.: *See—*
 Buresh, Francis M.; Nisenson, Stanley M.; Lipscomb, Walter P.; and Saich, Anthony M., 3,704,191.
 Nishi, Gosaburo: *See—*
 Ojima, Teruhiko; and Nishi, Gosaburo, 3,637,605.
 Nishi, Seiya; Oshio, Akira; and Eto, Kiyomitsu, to Onoda Cement Company, Limited and Nippon Concrete Industries Co., Ltd. Centrifugal casting method. 3,676,541, 7-11-72, Cl. 264-234.000.
 Nishi, Seiya; Oshio, Akira; and Kiyomitsu, Eto, to Onoda Cement Company Limited. Method of producing high strength mortar or concrete. 3,677,780, 7-18-72, Cl. 106-90.000.
 Nishi, Takeshi: *See—*
 Hisada, Takeo; Nakajima, Fumio; Nishi, Takeshi; and Sugiyama, Kunro, 3,680,579.
 Nishi, Tsuyoshi: *See—*
 Masuyama, Takeshi; Matsuoka, Michio; and Nishi, Tsuyoshi, 3,663,458.
 Masuyama, Takeshi; Matsuoka, Michio; and Nishi, Tsuyoshi, 3,687,871.
 Nishiba, Tuneso: *See—*
 Kato, Mahiko; Saito, Isamu; and Nishiba, Tuneso, 3,706,398.
 Nishibayashi, Yoshifumi: *See—*
 Nishitani, Kazuo; Shiga, Yasuhiro; and Nishibayashi, Yoshifumi, 3,676,206.
 Nishibori, Yoshihiro: *See—*
 Tanaka, Jun; and Nishibori, Yoshihiro, 3,684,496.
 Nishida, Hideo; Yamaguchi, Kunihiko; Kumasaka, Noriyuki; Sugita, Yutaka; and Fujiwara, Hideo, to Hitachi, Ltd. Plated magnetic wire. 3,673,581, 6-27-72, Cl. 340-174.0pw.
 Nishida, Jun: *See—*
 Maeda, Haruo; and Nishida, Jun, 3,646,350.
 Nishida, Jun; and Ohhara, Takahumi, to Matsushita Electric Industrial Co., Ltd. High-field emission cathodes and methods for preparing the cathodes. 3,678,325, 7-18-72, Cl. 313-346.000.
 Nishida, Koji: *See—*
 Okamoto, Tosiaki; Inada, Masami; Takayama, Katuki; Hayashi, Tatsuo; Nishida, Koji; Sakakibara, Naoji; and Kamiya, Masao, 3,656,817.
 Yamazaki, Toshio; Abu, Takao; Sato, Takefumi; Nishida, Koji; and Okamoto, Tosiaki, 3,652,133.
 Nishida, Koji, to Denki Onkyo Co., Ltd. Deflection yoke for television receivers. 3,684,987, 8-15-72, Cl. 335-210.000.
 Nishida, Masamitsu: *See—*
 Ouchi, Hiromu; and Nishida, Masamitsu, 3,652,413.
 Nishida, Masamitsu; and Ouchi, Hiromu, to Matsushita Electric Industrial Co., Ltd. Piezoelectric ceramic compositions. 3,640,866, 2-8-72, Cl. 252-62.
 Nishida, Masamitsu; and Ouchi, Hiromu, to Matsushita Electric Industrial Co., Ltd. Piezoelectric ceramic compositions. 3,649,539, 3-14-72, Cl. 252-62.9.
 Nishida, Masamitsu; and Ouchi, Hiromu, to Matsushita Electric Industrial Co., Ltd. Piezoelectric ceramic compositions. 3,649,540, 3-14-72, Cl. 252-62.9.
 Nishida, Masamitsu; and Ouchi, Hiromu, to Matsushita Electric Industrial Co., Ltd. Piezoelectric ceramic compositions. 3,652,412, 3-28-72, Cl. 252-62.9.
 Nishida, Masamitsu; and Ouchi, Hiromu, to Matsushita Electric Industrial Co., Ltd. Piezoelectric ceramic compositions. 3,669,887, 6-13-72, Cl. 252-62.9.
 Nishida, Nobuo: *See—*
 Kiji, Kazuo; Nishida, Nobuo; and Sakaguchi, Mitsuhiro, 3,664,722.
 Sakaguchi, Mitsuhiro; and Nishida, Nobuo, 3,704,929.
 Nishida, Nobuo; and Sakaguchi, Mitsuhiro, to Nippon Electric Company, Limited. Hologram graphic data tablet. 3,658,402, 4-25-72, Cl. 350-3.5.
 Nishida, Nobuo; and Sakaguchi, Mitsuhiro, to Nippon Electric Company, Limited. Light deflector comprising cascaded light displacement means and hologram plate. 3,677,622, 7-18-72, Cl. 350-163.000.

Nishida, Takashi: *See*—
Umeno, Masashi; Yabuta, Shiro; and Nishida, Takashi, 3,638,230.

Nishida, Takashi; and Ito, Kazuo, to Kurashiki Rayon Co., Ltd. Process for the manufacture of polyisoprene. 3,661,883, 5-9-72, Cl. 260-94.3.

Nishida, Takeo: *See*—
Toyooka, Tadao; Ueda, Hiromutsu; Nishida, Takeo; and Ono, Atsuo, 3,641,921.

Toyooka, Tadao; Ueda, Hiromutsu; Nishida, Takeo; and Ono, Atsuo, 3,694,623.

Nishida, Takuji: *See*—
Ikubo, Yuichi; Nishida, Takuji; and Furukawa, Yoshiki, 3,645,998.

Nishide, Katsuhiko: *See*—
Kinjo, Kikuo; Yamanouchi, Teruo; Kondo, Eiichi; Matsuno, Hiroshi; and Nishide, Katsuhiko, 3,702,764.

Kinjo, Kikuo; Yamanouchi, Teruo; Kondo, Eiichi; Matsuno, Hiroshi; and Nishide, Katsuhiko, 3,705,031.

Nishifujii, Katsuyuki: *See*—
Muto, Iwao; Matsunura, Yutaka; Nishifujii, Katsuyuki; and Matsura, Kenji, 3,670,562.

Nishigaki, Eiiti: *See*—
Masuda, Hiromasa; Nishigaki, Eiiti; and Maeda, Tomosuke, 3,671,496.

Nishiguchi, Masakatsu: *See*—
Gunther, Gregory M.; Lewis, J. Stephen; Nishiguchi, Masakatsu; Robson, George E.; Wagner, Raymond P.; and Yarbrough, William R., 3,696,552.

Nishihar Takao: *See*—
Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshhide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.

Nishihara, Kazuo. Process for the formation of a super-bright solder coating. 3,661,730, 5-9-72, Cl. 204-43.000.

Nishihara, Minoru: *See*—
Maekawa, Takasumi; Yoshida, Ryoichi; and Nishihara, Minoru, 3,652,839.

Nishihara, Toshiro; Asano, Hidejiro; Maeda, Shigeyoshi; and Oyagi, Yashichi, to Nippon Steel Corporation. Cold rolled steel sheet having stabilized thin oxide film and having excellent resistance against corrosion particularly initial rust formation as well as against corrosion after lacquering. 3,704,181, 11-28-72, Cl. 148-31.500.

Nishihara, Yoshio. Carburetor of the overflow type. 3,695,590, 10-3-72, Cl. 261-36.00a.

Nishiie, Kazuyoshi: *See*—
Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; and Nishiie, Kazuyoshi, 3,658,792.

Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; Nishiie, Kazuyoshi; Satoh, Sakae; Koide, Tadashi; and Hotta, Yasuo, 3,668,200.

Nishijima, Tsutomu: *See*—
Suzuki, Toshi; and Nishijima, Tsutomu, 3,679,839.

Nishijima, Yasushi: *See*—
Oohara, Saburo; Amemiya, Koitsuro; Nishijima, Yasushi; Fukushima, Mitsuyoshi; and Shimizu, Kunio, 3,677,871.

Nishikawa, Akira: *See*—
Mohri, Etsuzo; Hayakawa, Toshio; and Nishikawa, Akira, 3,697,904.

Nishikawa, Atsuro: *See*—
Kawai, Isamu; Nishikawa, Atsuro; Takagi, Osamu; Iwata, Akira; and Sugiyama, Kohei, 3,657,165.

Nishikawa, Eikichi, to Kyoritsu Manufacturing Company Limited. Electric vise. 3,704,879, 12-5-72, Cl. 269-222.000.

Nishikawa, Hideo; Kawaguchi, Akihiro; Washimi, Koichi; and Kambayashi, Masaaki, to Kureha Kagaku Kogyo Kabushiki Kaisha and Mitsubishi Jyukogyo Kabushiki Kaisha. Changeover type regenerative heat-exchange apparatus. 3,631,920, 1-4-72, Cl. 165-4.

Nishikawa, Hisashi: *See*—
Ichinose, Noboru; Yokoyama, Katsunori; and Nishikawa, Hisashi, 3,679,919.

Nishikawa, Katuhiko: *See*—
Miyashita, Yoshio; Nishikawa, Katuhiko; and Sata, Toshio, 3,647,425.

Nishikawa, Kikuyoshi; Nakamura, Tadahisa; and Nakakura, Kenji, to Fujisoku Electric Co., Ltd. Seesaw switch. 3,694,598, 9-26-72, Cl. 200-67.00g.

Nishikawa, Manaka: *See*—
Inouye, Ryuichiro; Nishikawa, Manaka; and Akano, Akimi, 3,650,981.

Nishikawa, Masaaki: *See*—
Saito, Shuzo; Itakura, Fumitada; Nishikawa, Masaaki; and Koike, Tsunehiko, 3,662,115.

Nishikawa, Masao: *See*—
Nakamachi, Hideo; Kamiya, Kazuhide; Nishikawa, Masao; and Fujii, Shoichiro, 3,687,932.

Nishikawa, Masao, to Honda Giken Kogyo Kabushiki Kaisha. Apparatus for controlling the operation of power steering apparatus in a vehicle. 3,693,747, 9-26-72, Cl. 180-79.20r.

Nishikawa, Masataka, to Chiyoda Sangyo Co., Ltd. Dust removing equipment for a shuttle race. 3,650,230, 3-21-72, Cl. 112-192.

Nishikawa, Nobuaki: *See*—
Okumura, Munehiro; Nishikawa, Tatsuki; and Nishikawa, Nobuaki, 3,649,611.

Nishikawa Rubber Co., Ltd.: *See*—
Kimura, Yoh, 3,699,718.

Nishikawa, Tatsuki: *See*—
Okumura, Munehiro; Nishikawa, Tatsuki; and Nishikawa, Nobuaki, 3,649,611.

Nishikawa, Yasuhisa: *See*—
Yasuda, Yukitomo; Akasaka, Tadashi; Nishikawa, Yasuhisa; and Magi, Mamoru, 3,634,791.

Nishikawa, Yukiyasu; and Hidaka, Tsuneo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Positioning apparatus for article with portion determining portion of predetermined configuration. 3,676,692, 7-11-72, Cl. 250-231.00r.

Nishikida, Tomozumi: *See*—
Nakaguchi, Kohei; Nishikida, Tomozumi; Kawasumi, Shohachi; Maemoto, Kenichi; Sano, Takezo; Fujii, Yoshikazu; Harada, Koichi; and Ueda, Keiyou, 3,669,945.

Nishikubo, Yasuhiko; and Kojima, Tsutomu, to Citizen Watch Co., Ltd. Oscillator with three-arm mechanical vibrator connected to suppress spurious vibrations. 3,657,667, 4-18-72, Cl. 331-116.

Nishikura, Kouiti: *See*—
Iwaoka, Mutsuo; Takegawa, Akio; Inoue, Hiraku; Egami, Katsusuke; Nishikura, Kouiti; Yamashita, Shigeji; and Nagayasu, Tadashi, 3,698,178.

Nishimaki, Ko; and Yoshikawa, Isamu, to Hitachi Shipbuilding and Engineering Co., Ltd. Storage tanks for ultra low temperature liquids. 3,670,917, 6-20-72, Cl. 220-10.000.

Nishimoto, Masaki: *See*—
Nakatani, Taro; Nishimoto, Masaki; Segawa, Hiromi; and Yamamoto, Hiroshi, 3,660,836.

Nishimoto, Takashi, to Kabushiki Kaisha Fujikoshi. Fluidic amplifier. 3,680,575, 8-1-72, Cl. 137-81.500.

Nishimoto, Tetsunori, to Kogyo Gijutsuin. Memory control system which enables access requests during block transfer. 3,705,388, 12-5-72, Cl. 340-172.500.

Nishimoto, Utiro: *See*—
Arai, Sumio; Inouye, Masaru; Ogata, Yuzuru; Niimi, Yukihisa; and Nishimoto, Utiro, 3,666,661.

Nishimura, Haruki; and Nagai, Yasutaka, to Dainippon Pharmaceutical Co., Ltd. 3-Phenyl-4-acyloxycarbostyris. 3,635,985, 1-18-72, Cl. 260-287.

Nishimura, Haruo: *See*—
Nagata, Wataru; and Nishimura, Haruo, 3,651,228.

Nishimura, Hiroshi: *See*—
Wada, Shigeru; Oi, Hidesaburo; Matsuzawa, Norio; Nishimura, Hiroshi; and Sasaki, Juntaro, 3,701,763.

Nishimura, Hiroshi; and Sato, Shizuo, to Kanegafuchi Boseki Kabushiki Kaisha. Method of producing polyvinyl acetal porous articles and the shaped porous articles made therefrom. 3,663,470, 5-16-72, Cl. 260-2.5.

Nishimura, Kazuo: *See*—
Miura, Kazuo; Sekigawa, Shichitaro; Nishizawa, Kyosaku; and Nishimura, Kazuo, 3,652,539.

Nishimura, Koichi: *See*—
Kurahashi, Koichiro; Nakada, Masanori; Abe, Masaaki; and Nishimura, Koichi, 3,702,896.

Nishimura, Kotaro: *See*—
Usami, Seiji; Nishimura, Kotaro; Koyama, Takao; and Fukushi, Saburo, 3,634,291.

Nishimura, Mikio: *See*—
Fujimoto, Takehiko; Nishimura, Mikio; and Takigawa, Shoji, 3,651,029.

Nishimura, Motoharu; and Isoi, Toshihiro, to Yuasa Battery Company Limited. Non-spillable storage battery. 3,661,651, 5-9-72, Cl. 136-170.

Nishimura, Noriyuki: *See*—
Chibata, Ichiro; Kakimoto, Toshio; Shibata, Takeji; and Nishimura, Noriyuki, 3,698,999.

Nishimura, Osamu: *See*—
Fujino, Masahiko; Hatanaka, Chitoshi; Nishimura, Osamu; and Sanno, Yasushi, 3,651,039.

Nishimura, Sadanori, to Honda Giken Kogyo Kabushiki Kaisha. Pressure fluid circuit in automatic transmission apparatus. 3,678,952, 7-25-72, Cl. 137-53.000.

Nishimura, Satoshi, to Sanyo Electric Co., Ltd. Hermetically sealed DC motor-compressor unit. 3,634,873, 1-11-72, Cl. 318-254.

Nishimura, Seiichi: *See*—
Oda, Naoteru; Nishimura, Seiichi; and Komatsu, Hideo, 3,702,694.

Nishimura Seisakusho Co., Ltd.: *See*—
Mukai, Hideo; and Wada, Kimihiro, 3,670,980.

Nishimura, Shigeru, to Matsushita Electric Industrial Co., Ltd. Color television pick-up device with synthesized luminence signal. 3,666,882, 5-30-72, Cl. 178-5.4.

Nishimura, Takashi: *See*—
Hidaka, Tsuneyoshi; Morita, Akiyoshi; Honjo, Yoshihiko; and Nishimura, Takashi, 3,681,518.

Nishimura, Takehiko: *See*—
Fukuoka, Ichiro; Kimura, Shoji; Nishimura, Takehiko; and Takahashi, Satoshi, 3,697,609.

Nishimura, Takeo, to Hitachi, Ltd. Method of producing thin film integrated circuits. 3,699,011, 10-17-72, Cl. 204-15.

Nishimura, Tatsumi; Shinohara, Hiroshi; Takita, Kiyoshi; and Kado, Masaru, to Kumiai Chemical Industry Co., Ltd. Certain O,O-dialkyl-S-[(1-pyridyl-2-alkylthioethyl)]phosphorothioates and the corresponding phosphorodithioates. 3,646,043, 2-29-72, Cl. 260-29.8.

Nishimura, Tatsumi; Inoue, Tadahiho; Tsuboi, Takeo; and Kado, Masaru, to Kumiai Chemical Industry Co., Ltd. 2-Methoxy-4-methylphenyl-N-methylcarbamate and insecticidal compositions containing the same. 3,671,640, 6-20-72, Cl. 424-300.000.

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Nishina, Yoshio: *See*—
Ishihara, Masao; Sugino, Osakazu; Nishina, Yoshio; Kohno, Isao; and Satoh, Yuzuru, 3,640,721.

Nishino, Hisao: *See*—
Kato, Umaki; and Nishino, Hisao, 3,663,913.

Nishino, Keigo: *See*—
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keichi; Shinoda, Hirotaka; and Hasegawa, Yoshinori, 3,679,730.

Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keichi; and Shinada, Hirotaka, 3,697,577.

Nishino, Ken-Ichi: *See*—
Mise, Noritoshi; Yamada, Minoru; and Nishino, Ken-Ichi, 3,637,573.

Nishino, Sakae: *See*—
Furuya, Akio; Hayashi, Masaaki; Nagami, Kouichi; Uchida, Masakatsu; Nishino, Sakae; Asada, Toshikatsu; Nagao, Yasuo; Matsuda, Hiroyoshi; and Tsuchiya, Harufumi, 3,689,446.

Nishino, Tadashi: *See*—
Hinohara, Kango; Nishino, Tadashi; and Harada, Hiroshi, 3,704,825.

Nishino, Tsutomu: *See*—
Morita, Yasuyuki; and Nishino, Tsutomu, 3,700,322.

Nishino, Tsutomu; and Mogi, Yuuji. Electron beam deflecting device. 3,696,266, 10-3-72, Cl. 315-3.000.

Nishio, Daijiro: *See*—
Ohe, Keitaro; Nishio, Daijiro; and Sadamatsu, Shigeru, 3,647,773.

Nishio, Daijiro, to Fuji Photo Film Co., Ltd. Process for the preparation of 4 (2-hydroxypropionyl) morpholine. 3,637,683, 1-25-72, Cl. 260-247.7.

Nishio, Fumihiko: *See*—
Amano, Hiroyuki; Nishio, Fumihiko; Tsuji, Nobuo; and Shirasu, Kazuo, 3,676,139.

Nishio, Fumihiko: *See*—
Tsuji, Nobuo; Tajima, Tatsuya; Miyazako, Takushi; Tsuchiya, Yoshinori; and Nishio, Fumihiko, 3,666,470.

Ushimaru, Yoshuke; Nakajima, Yosuke; Sugiyama, Mitsunori; Nishio, Fumihiko; and Kobayashi, Shigeru, 3,656,955.

Yamamoto, Nobuo; Nishio, Fumihiko; Yoshida, Masaji; and Kawano, Hideo, 3,656,956.

Nishio, Fumihiko; Tsuji, Nobuo; Ikeda, Teppei; and Kawaguchi, Hideo, to Fuji Photo Film Co., Ltd. Photographic silver halide light-sensitive element with gelatin subbing layer. 3,645,740, 2-29-72, Cl. 96-87.

Nishio, Mikio: *See*—
Minami, Tohru; Nishio, Mikio; Toyama, Ichiro; Kawano, Shigeyoshi; Imai, Masumi; Takuma, Yutaka; and Kitanosono, Hidehiro, 3,688,555.

Nishio, Motohiro; Ito, Teichiro; Koeda, Takemi; and Shibata, Uichi, to Meiji Seika Kaisha, Ltd. 1-Oxy-3-benzal-thiochromanone derivatives and a process for the production of these compounds. 3,682,899, 8-8-72, Cl. 260-240.00f.

Nishioka, Kenichi, to Imasen Electric Industrial Co., Ltd. Sequential flash type directional signal device for automobiles. 3,697,946, 10-10-72, Cl. 340-82.000.

Nishishiba Electric Co., Ltd.: *See*—
Kashiwagi, Shinichi; Amano, Morio; and Nakasawa, Koichi, 3,653,706.

Nishishita, Masaharu: *See*—
Ohnishi, Shigekazu; Nishishita, Masaharu; and Takimoto, Hisateru, 3,703,403.

Nishita, Sadao: *See*—
Ishii, Hajime; Bannai, Nobuo; and Nishita, Sadao, 3,707,592.

Nishitake, Shigeki: *See*—
Oshima, Goro; and Nishitake, Shigeki, 3,659,465.

Nishitani, Kazuo; Shiga, Yasuhiro; and Nishibayashi, Yoshifumi, to Tokyo Cloth Co., Ltd. Porous coated fibrous material. 3,676,206, 7-11-72, Cl. 117-140.00a.

Nishitani, Masaki: *See*—
Funakoshi, Yoshiro; Kajiura, Takehiko; Fujii, Kiyoshi; Kanamaru, Toshihiko; Nishitani, Masaki; and Komeda, Hiromu, 3,671,296.

Nishitani, Yasuo: *See*—
Notani, Masaaki; Ashibe, Makoto; Nishitani, Yasuo; and Mirara, Keiziro, 3,636,253.

Nishiwaki, Ito: *See*—
Chikatsu, Tatsusuke; Shimokawa, Shinichi; Yoshida, Yoshinori; Imamura, Masatogu; Nishiwaki, Ito; Akimoto, Toshio; and Fujiwara, Tatsuji, 3,692,861.

Nishiyama, Akira; Yoshino, Hirokazu; Yoshida, Tomio; and Yamaguchi, Tetsuo, to Matsushita Electric Industrial Co., Ltd. Learning machine. 3,638,196, 1-25-72, Cl. 340-172.5.

Nishiyama, Akira; Fukui, Tooru; Takahashi, Satoshi; Takashima, Yuji; Nakano, Masaaki; Izura, Yoshiteru; and Tanaka, Masaaki, to Matsushita Electric Industrial Co., Ltd. Mail processing apparatus. 3,689,155, 9-5-72, Cl. 355-133.000.

Nishiyama, Makoto: *See*—
Itoh, Yohnosuke; Miki, Masataka; Nishiyama, Makoto; Uda, Yuhnosuke; and Terashima, Masaoki, 3,682,469.

Nishiyama, Ryuzo; Fujikawa, Kanichi; Yokomichi, Isao; and Kimura, Fumio, to Ishihara Sangyo Co., Ltd. Certain substituted pyridyl phenyl ethers. 3,637,720, 1-25-72, Cl. 260-297.

Nishiyama, Shigeru; Kusano, Hiroshi; Nagai, Yoshio; and Miura, Satoshi, to Kubota Iron & Machinery Works, Ltd. Composite tube and a method of producing the same using the filament winding process. 3,706,615, 12-19-72, Cl. 156-169.000.

Nishiyama, Shizuo; and Tanaka, Makoto, to Hitachi, Ltd. Facsimile reading and recording device. 3,681,527, 8-1-72, Cl. 178-6.60a.

Nishiyama, Shoji: *See*—
Kurokawa, Toshio; Nishiyama, Shoji; Nagai, Katsumi; and Mochizuki, Yuu, 3,700,229.

Nishiyama, Tsuneto: *See*—
Kawasaki, Akihiro; Taniguchi, Masanobu; and Nishiyama, Tsuneto, 3,658,775.

Nishizawa, Hirofumi; Kitaura, Shigeo; Sumoto, Misao; Komagata, Hideki; and Matsumoto, Hiroshi, to Toyo Boseki Kabushiki Kaisha. Method of producing tape-shaped assembly of elastic filaments. 3,690,978, 9-12-72, Cl. 156-167.000.

Nishizawa, Hiroshi: *See*—
Uchida, Shinji; Nishizawa, Hiroshi; and Sone, Yasuo, 3,655,628.

Nishizawa, Jun-ichi; and Sukegawa, Tokuzo, to Semiconductor Research Foundation. Electroluminescent p-n junction semiconductor device for use at higher frequencies. 3,633,059, 1-4-72, Cl. 313-108.

Nishizawa, Jun-ichi; Sasaki, Ichimom; Ishida, Katsuhiko; Tauchi, Syoji; Ishimura, Takeshi; Seki, Takeo; and Kozuma, Noboru, to Semiconductor Research Foundation. Signal collecting and distribution system. 3,634,849, 1-11-72, Cl. 340-324.

Nishizawa, Kyosaku: *See*—
Miura, Kazuo; Sekigawa, Shichitaro; Nishizawa, Kyosaku; and Nishimura, Kazuo, 3,652,539.

Nishizawa, Masahiro, to Nippon Columbia Kabushikikaisha (Nippon Columbia Co., Ltd.). Method of making phosphor screen for color cathode ray tube. 3,677,757, 7-18-72, Cl. 96-36.100.

Nishizawa, Mitsugu: *See*—
Yamada, Hisashi; Tajiri, Hisao; and Nishizawa, Mitsugu, 3,706,023.

Nishizawa, Mitsunori: *See*—
Yamawaki, Shunro; Ohyama, Isao; Nishizawa, Mitsunori; and Hayakawa, Ken, 3,632,988.

Nishizawa, Seiji: *See*—
Namioka, Hisao; Komaki, Norio; and Nishizawa, Seiji, 3,649,598.

Nishizawa, Yoshihiko: *See*—
Tsuchiya, Hiroshi; Horiuchi, Fukashi; Mukai, Kunio; Kimura, Akio; and Nishizawa, Yoshihiko, 3,636,144.

Niskanen, Toivo Johannes, to Asakeyhtio, A. Ahlstrom. Paper machine headbox. 3,634,188, 1-11-72, Cl. 162-342.

Niskin, Shale J. Net for collecting marine specimens. 3,688,433, 9-5-72, Cl. 43-100.000.

Niskovskikh, Vitaly Maximovich: *See*—
Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Polyakov, Boris Nikolaevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich, 3,688,833.

Niskovskikh, Vitaly Maximovich; Dyshkant, Viktor Fedorovich; and Kuznetsov, Leonid Georgievich, to Uralsky Zavod Tyazhelo Mashinostroenia Imeni S. Cooling system for continuous casting mold. 3,685,571, 8-22-72, Cl. 164-283.000.

Nisley, Larry V.; Mueller, Klaus P.; and Kreuter, Kenneth G., to Robertshaw Controls Company. Pneumatic control system. 3,693,706, 9-26-72, Cl. 165-23.000.

Nissan, Alfred H.: *See*—
Dimitri, Mitchell S.; and Nissan, Alfred H., 3,699,091.

- Nissan Chemical Industries, Ltd.: *See*—
Kokubo, Ryo; Yokomichi, Koji; Takakuwa, Yasuo; Maruyama, Isao; Shiroishi, Akihiro; and Nagakura, Mizuhiko, 3,637,686.
Okazaki, Takayoshi; Tashiro, Kiroku; and Yanagida, Koichiro, 3,671,376.
- Nissan Diesel Motor Co., Ltd.: *See*—
Inoue, Atsushi, 3,633,556.
- Nissan Jidosha Kabushiki Kaisha: *See*—
Horiuchi, Hideo, 3,645,242.
Ichimura, Hirohisa, 3,690,335.
Mori, Yoichi; Marumo, Nagayuki; Noburu, Fukazawa; and Ohie, Koichi, 3,701,623.
Toma, Setsuo, 3,647,037.
- Nissan, Joseph S., to Polaroid Corporation. Method of preparing polymerizable monomeric esters. 3,639,459, 2-1-72, Cl. 260-486.
- Nissan Kagaku Kogyo Kabushiki Kaisha: *See*—
Ishihara, Toshio; Okazaki, Takayoshi; Endo, Tetsuzo; Koichi, Tanizawa; and Nakajima, Sataro, 3,653,826.
Kokubo, Ryo; Takakuwa, Yasuo; Shiroishi, Akihiro; and Kihara, Mitsuji, 3,700,672.
- Nissan Motor Company Limited: *See*—
Akai, Seiji; and Morinaga, Akira, 3,676,024.
Aono, Shigeo; Manaka, Nobuzi; Inagaki, Tokuchii; Nakajima, Yasuo; and Etoh, Yukihiko, 3,673,989.
Aono, Shigeo, 3,673,994.
Aono, Shigeo, 3,704,702.
Fukasawa, Noburu; and Hatori, Yukiyo, 3,675,227.
Gotoh, Miyuki, 3,678,969.
Harada, Motoo; and Sasaki, Kenichi, 3,677,238.
Haruna, Takashi; and Shimano, Akira, 3,639,710.
Haruna, Takashi; and Sato, Hitoshi, 3,654,412.
Haruna, Takashi; and Taniguchi, Kazutaka, 3,674,951.
Irie, Namio, 3,667,323.
Irie, Namio; and Ichimura, Hirohisa, 3,695,122.
Irie, Namio, 3,696,839.
Irie, Namio; and Mizote, Masanori, 3,703,109.
Ishida, Hideo, 3,695,570.
Ishii, Hiroshi; and Okamoto, Koichi, 3,673,659.
Kamakura, Satoru; and Watanabe, Yukio, 3,660,979.
Kitamura, Takuya; Haruna, Takashi; and Toyoda, Minoru, 3,682,001.
Maeda, Riichi, 3,675,416.
Masaki, Kenji; and Kato, Sinzo, 3,693,947.
Masaki, Kenji; and Kato, Sinzo, 3,706,444.
Masuda, Tetuzo; Kurosawa, Kenjiro; Hashimoto, Takeo; and Izumi, Takahisa, 3,696,730.
Miyazaki, Toshio, 3,645,285.
Miyazaki, Toshio, 3,685,372.
Mohr, Yoichi; and Ichimura, Hirohisa, 3,670,598.
Mohri, Yoichi, 3,673,926.
Mohri, Yoichi, 3,699,994.
Mohri, Yoichi, 3,702,621.
Mohri, Yoichi, 3,646,851.
Mori, Yoichi; and Ichimura, Hirohisa, 3,640,156.
Mori, Yoichi; Okazaki, Nobuo; Ohtsuka, Kunio; and Iijima, Tetsuya, 3,701,293.
Morimoto, Yoshiro, 3,678,879.
Nakajima, Yasuo; Hayashi, Yoshimasa; and Sugihara, Kunihiro, 3,633,554.
Nakajima, Yasuo; and Hayashi, Yoshimasa, 3,636,934.
Nakajima, Yasuo; and Hayashi, Yoshimasa, 3,646,764.
Nakajima, Yasuo; Hayashi, Yoshimasa; and Nagumo, Sin-Ichi, 3,670,496.
Nakajima, Yasuo; Hayashi, Yoshimasa; and Sugihara, Kunihiro, 3,673,993.
Nakajima, Yasuo, 3,675,632.
Nakajima, Yasuo; and Hayashi, Yoshimasa, 3,675,633.
Naohiko, Inoue, 3,692,137.
Ohie, Koichi; and Enomoto, Koji, 3,667,228.
Ohie, Koichi; and Enomoto, Koji, 3,703,941.
Saitoh, Kohichi; Ohkubo, Nobuo; Sobajima, Katsunobu; and Hirano, Takeshi, 3,672,656.
Sawada, Hiraki, 3,673,997.
Shimano, Akira; Maki, Shin; Ohya, Katsuzi; and Uchiyama, Hiromichi, 3,650,542.
Shimizu, Yasushi, 3,702,550.
Shiobara, Masaji; and Toda, Yoshio, 3,653,537.
Shiobara, Masaji; and Watanabe, Genji, 3,669,424.
Tagawa, Katuhiko, 3,659,742.
Takagi, Takeshi; Kawamoto, Tamio; and Miyazaki, Toshio, 3,677,381.
Uchiyama, Hiromichi; and Inoue, Naohiko, 3,690,400.
Uehara, Yasunori, 3,688,808.
Yabuta, Keiichi, 3,663,067.
Yamada, Katsuo, 3,683,950.
Yamada, Katsuo, 3,690,416.
Yamada, Tadaaki; Kishida, Tadao; Konishi, Hiroshi; and Inaba, Yoshinari, 3,673,631.
Yamamoto, Yukio, 3,654,600.
- Nissen Corporation: *See*—
Nissen, George P., 3,636,576.
- Nissen, George P., 3,670,346.
- Nissen, George P., to Nissen Corporation. Roll-fold floor mat for gymnastic and athletic purposes. 3,636,576, 1-25-72, Cl. 5-344.
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Dorion, Francis W., Jr.; Nissen, Warren I.; and Perry, Roger L., 3,667,121.
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- Nissen, Warren I.; and Perry, Roger L., to Gillette Company, The. Razor with pivotally mounted safety guard. 3,657,811, 4-25-72, Cl. 30-77.
- Nissenbaum, Tamara Izovna: *See*—
Andoniev, Sergei Mikhailovich; Kutsyovich, Dorina Borisovna; Gerber, Leonid Moiseevich; Kudinov, Gennady Alexandrovich; Kasyanov, Grigory Ivanovich; Nissenbaum, Tamara Izovna; Raikovskiy, Jury Borisovich; Somchenko, Mikhail Semenovich; and Filipiev, Oleg Vadimirovich, 3,692,103.
- Andoniev, Sergei Mikhailovich; Gerber, Leonid Moiseevich; Kasyanov, Grigory Ivanovich; Kudinov, Gennady Alexandrovich; Kutsyovich, Dorina Borisovna; Nissenbaum, Tamara Izovna; Raikovskiy, Jury Borisovich; Somchenko, Mikhail; and Filipiev, Oleg, 3,693,708.
- Nisshin Flour Milling Co., Ltd.: *See*—
Toyoda, Masashi; and Tawara, Yoshiyuki, 3,661,939.
- Nisshin Flour Milling, Ltd.: *See*—
Yokoyama, Fujihiko; Yoneyama, Tohru; and Sato, Shigehiko (said Yokoyama and said Yoneyama assor. to said), 3,679,438.
- Nisshin Steel Co., Ltd.: *See*—
Ohama, Tsuyoshi; and Iwasaki, Tetsuji, 3,681,118.
- Nissho-Iwai Company Limited: *See*—
Terada, Manzo, 3,641,852.
Terada, Manzo, 3,670,969.
- Nissle, William N.; Slaby, Robert K.; and Bredeson, Dean K., to French Oil Mill Machinery Company, The. Desolventizing apparatus. 3,684,252, 8-15-72, Cl. 259-9,000.
- Nisso Kako Co., Ltd.: *See*—
Orita, Michio; and Yahagi, Masakichi, 3,642,514.
Orita, Michio; Yahagi, Masakichi; Enomoto, Chohji; Obitu, Takeo; and Tohyama, Takafumi, 3,649,649.
- Nisso Kinzoku Kabushiki Kaisha: *See*—
Hasegawa, Tokushige; Makimoto, Kuninobu; Nihei, Seiji; and Takahira, Jiro, 3,672,868.
- Nisson Motor Company, Limited: *See*—
Aono, Shigeo, 3,703,162.
- Nistler, Gordon A.; and Hannagan, Harold W., to Explosive Technology, Inc. Explosively actuated egress and ingress device and method. 3,658,006, 4-25-72, Cl. 102-24.
- Nistri, Ugo: *See*—
Passalenti, Beppino; Vargiu, Silvio; and Nistri, Ugo, 3,635,859.
Pitzalis, Mario; Vargiu, Silvio; and Nistri, Ugo, 3,674,732.
Vargiu, Silvio; Giovanni, Sesto S.; Nistri, Ugo; and Pezzoli, Silvestro, 3,687,896.
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Ito, Yoshio; Katayama, Hajime; Yamaguchi, Masaru; and Nitanda, Hiroshi, 3,684,363.
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Knutsen, Elliel F.; and Santiago, Julio A., 3,641,676.
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Abe, Jinnosuke; Watanabe, Tetsuo; Miyauchi, Kango; Yamaguchi, Tsutomu; Nito, Toshiharu; and Muroya, Noriyuki, 3,649,455.
- Nitro Nobel AB: *See*—
Ljungberg, Sten Herman; and Sternhoff, Lennart B. T., 3,656,716.
Olsson, Per O. I., 3,640,223.
Persson, Per Ingemar, 3,663,723.
- Nitrochemie GmbH: *See*—
Netzer, Theodor; and Block, Hans-Jürgen, 3,676,233.
- Nitrochill Limited: *See*—
Finney, Peter E., 3,645,291.

- Nitsch, Edward J.: *See*—
Steltzer, Ernest R.; and Nitsch, Edward J., 3,656,105.
- Nitsch, Ernst; and Muhlbock, Siegfried, to Laevosan-Gesellschaft Chem. Pharm. Industrie Frank & Dr. Freudl. Method for production of lactulose concentrate. 3,707,534, 12-26-72, Cl. 260-209,000.
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- Nitta, Hifumi: *See*—
Kato, Tomio; and Nitta, Hifumi, 3,654,515.
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Umezawa, Hamao; Maeda, Kenji; Takeuchi, Tomio; Nitta, Kazuo; Okami, Yoshiro; and Ogawara, Hiroshi, 3,655,877.
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Kobayashi, Akihiro, 3,676,681.
Kobayashi, Akihiro, 3,688,119.
- Sasaki, Koji, 3,702,468.
- Sasaki, Koji; and Kobayashi, Akihiro, 3,657,713.
- Sasaki, Koji; and Kobayashi, Akihiro, 3,662,177.
- Sasaki, Koji; Takahashi, Naoki; and Kobayashi, Akihiro, 3,666,954.
- Sasaki, Koji, 3,668,676.
- Sasaki, Koji, 3,693,009.
- Takahashi, Naoki, 3,676,678.
- Nittel, Fritz: *See*—
Credner, Hans-Heinrich; Glockner, Hans; and Nittel, Fritz, 3,652,286.
Kreuder, Manfred; Metzner, Wolfgang; Sobel, Johannes; Himmelmann, Wolfgang; and Nittel, Fritz, 3,687,671.
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Miyamichi, Kazuo, 3,639,140.
Sasakura, Tadao; and Yajima, Mikiharu, 3,657,410.
Watanabe, Shigeo; and Yamaguchi, Tomomi, 3,657,032.
- Nitto Chemical Industry Co., Ltd.: *See*—
Ide, Fumio; Okano, Kenji; and Deguchi, Seiji, 3,644,249.
Ide, Fumio; Okano, Kenji; and Deguchi, Seiji, 3,644,250.
Ikeda, Yoneichi; Hattori, Michio; and Kiyomiya, Yutaka, 3,649,179.
Ikeda, Yoneichi; Takeda, Tsukasa; Hattori, Michio; Kiyomiya, Yutaka; and Yamamoto, Takashi, 3,694,322.
Takayama, Yuzi; Ichimura, Yutaka; Minami, Shunsuke; Aoyagi, Takanobu; and Takeda, Fumio, 3,703,491.
Yoshino, Takachika; Saito, Shigeru; Sasaki, Yutaka; and Nakamura, Yoshimi, 3,657,155.
Yoshino, Takachika; Saito, Shigeru; Ishikura, Jun; Sasaki, Yutaka; and Sobukawa, Masukuni, 3,668,147.
Yoshino, Takachika; Saito, Shigeru; Sasaki, Yutaka; and Nakamura, Yoshimi, 3,686,138.
- Nitto Denki Kogyo Kabushiki Kaisha; a/k/a Nitto Electric Industrial Co., Ltd.: *See*—
Iwai, Toshiharu; and Yamazaki, Kazukiyo, 3,666,615.
- Nitto Electric Industrial Co., Ltd.: *See*—
Yoshihara, Mitsuo; and Mizutani, Kazunori, 3,671,592.
- Nitto Kagaku Kogyo Kabushiki Kaisha; a/k/a Nitto Chemical Industry Co., Ltd.: *See*—
Ashina, Yoshiro; Oshima, Iwao; and Sekine, Kazunori, 3,701,761.
- Nitto Kasei Co., Ltd.: *See*—
Kawakami, Yohei; Seki, Toshio; and Suzuki, Kozaburo, 3,682,992.
Seki, Toshio, 3,632,551.
Seki, Toshio; Suzuki, Kozaburo; and Matsuzaki, Takashi, 3,647,746.
Seki, Toshio; Hiyama, Yasuo; and Sato, Yoshitaka, 3,702,858.
- Suzuki, Reiichi; Tahara, Tadasu; and Mototani, Hideo, 3,674,769.
- Nitto Kohki Company Limited: *See*—
Cameron, William M.; Mikiya, Toshio; and Matsumura, Mitsuma, 3,680,643.
Saito, Noboru, 3,664,208.
- Nitto Kohki Company Limited, mesne: *See*—
Mogaki, Tadahisa, 3,657,844.
- Nitto Kohki U.S.A., Inc.: *See*—
Greenwood, Sidney, 3,653,274.
- Nitz, Allen R., to Allis-Chalmers Manufacturing Company. Electrical contact. 3,641,300, 2-8-72, Cl. 200-166.
- Nitz, Rolf-Eberhard: *See*—
Beyerle, Rudi; Stachel, Adolf; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckard, 3,652,557.
Beyerle, Rudi; Nitz, Rolf-Eberhard; Resag, Klaus; Schraven, Eckard; and Stachel, Adolf, 3,706,739.
- Nitzberg, Jack: *See*—
Sussman, Arthur; and Nitzberg, Jack, 3,680,948.
- Nitzsche, Siegfried: *See*—
Bauer, Ignaz; Riedle, Rudolf; and Nitzsche, Siegfried, 3,660,524.
Hittmair, Paul; Kaiser, Wolfgang; Nitzsche, Siegfried; and Wohlfarth, Ernst, 3,644,434.
Kaiser, Wolfgang; Nitzsche, Siegfried; Wohlfarth, Ernst; and Hittmair, Paul, 3,677,996.
Kaiser, Wolfgang; Nitzsche, Siegfried; Wohlfarth, Ernst; Strasser, Alois; and Hittmair, Paul, 3,677,997.
Kaiser, Wolfgang; Nitzsche, Siegfried; Wohlfarth, Ernst; and Hittmair, Paul, 3,678,003.
Marwitz, Heinrich; and Nitzsche, Siegfried, 3,671,485.
Triem, Hermann; Wick, Manfred; Nitzsche, Siegfried; and Wegehaupt, Karl-Heinrich, 3,652,711.
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Urry, Wilbert H.; and Niu, Hsien Ying, 3,676,469.
- Niven, Francis J., Jr. Electrical compensation circuit utilizing two transistors connected in parallel. 3,693,029, 9-19-72, Cl. 307-237,000.
- Niwa, Kouichi: *See*—
Miyoshi, Munetugu; Niwa, Kouichi; Ohnishi, Takanobu; Danno, Tamotsu; and Higaki, Koh, 3,652,531.
- Niwa, Kunihiro: *See*—
Iwasaki, Masahiro; Goto, Nobuyuki; Fujisaki, Hiroya; and Niwa, Kunihiro, 3,667,047.
Iwasaki, Masahiro; Goto, Nobuyuki; Fujisaki, Hiroya; and Niwa, Kunihiro, 3,678,390.
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- Niwa, Susumu: *See*—
Saito, Nagao; Kobayashi, Kazuhiko; and Niwa, Susumu, 3,655,936.
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- Niwa, Takazumi: *See*—
Suzukawa, Yuichi; Kono, Hisashi; Terai, Kenji; Kuribayashi, Atushi; and Niwa, Takazumi, 3,661,973.
- Niwa, Tomizo: *See*—
Shomura, Takashi; Ezaki, Norio; Tsuruoka, Takashi; Niwa, Tomizo; Akita, Eiichi; and Niida, Taro, 3,661,892.
Shomura, Takashi; Ezaki, Norio; Tsuruoka, Takashi; Niwa, Tomizo; Akita, Eiichi; and Niida, Taro, 3,697,648.
- Nix, Andrew B.: *See*—
Schultz, Seiford F.; and Nix, Andrew B., 3,633,636.
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Katzman, Allison; Nix, Donald F.; and Glass, Marvin I., 3,648,652.

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Angarola, Barry R.; and Nix, Robert J., 3,654,033.
- Nixdorf Computer AG: *See—*
Winter, Udo, 3,646,532.
- Nixon, Charles D. Wheel washing device. 3,679,134, 7-25-72, Cl. 239-70.000.
- Nixon, Dalbro R.: *See—*
Batchelor, Gordon S.; and Nixon, Dalbro R., 3,700,200.
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- Nixon, David L.: *See—*
United States of America, National Aeronautics and Space Administration, 3,702,979.
- Nixon, Earl H., to Western Electric Company, Incorporated. Circuit for displaying data keyed into data system. 3,636,319, 1-18-72, Cl. 235-92.
- Nixon, Frank: *See—*
Dickinson, George Alfred; and Nixon, Frank, 3,663,196.
- Nixon, Glen E.: *See—*
Mc Coy, Michael R.; and Nixon, Glen E., 3,673,427.
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- Nixon, Joseph R., Jr., to Hercules Incorporated. Fractionation of inorganic acid-free cleavage reaction mixture. 3,672,961, 6-27-72, Cl. 203-37.000.
- Nixon, Paul A. Rear mounted snowmobile cargo box with tow bar extension. 3,687,344, 8-29-72, Cl. 224-29.00r.
- Nixon, Raymond F.: *See—*
Vale, Peter C.; Palazzola, Anthony; Grui, Nicolae; and Nixon, Raymond F., 3,680,267.
- Nixon, Thomas E.; Barber, John A.; and Nagle, Floyd B., to Dow Chemical Company. The Compositions of polystyrene and polyethylene waxes. 3,666,699, 5-30-72, Cl. 260-235.
- Nixon, William C.: *See—*
Banbury, John R.; and Nixon, William C., 3,694,652.
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Garrood, John Robert; and Nixon, William Charles, 3,657,593.
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Csaszar, Janos; Nizsalovszky, Laszlo; and Tardos, Laszlo, 3,652,582.
- NKF Kabel N.V.: *See—*
Bentvelsen, Petrus A. C., 3,634,603.
- N.L. Application S.A.: *See—*
De Vries, Hendrik, Jr., 3,656,879.
- NL Industries, Inc.: *See—*
Blumenthal, Warren B., 3,677,798.
- Dantro, Horace F., 3,658,539.
- Lawhon, Charles P.; Taylor, Kenneth O.; and Brock, Jerry A., 3,693,951.
- Rutt, Truman C., 3,679,950.
- White, Edward L.; and Lang, William D., 3,645,944.
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- Noack, William L.: *See—*
Moore, John R.; Noack, William L.; and Roser, Robert A., 3,696,967.
- Noakes, Keith: *See—*
Lynam, Peter Henry; and Noakes, Keith, 3,656,992.
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- Nobel Hoechst Chimie: *See—*
Cabestany, Jean-Antoine; and Lefebvre, Yves, 3,645,841.
- Nobel Metals, Inc.: *See—*
Cooper, Robert J.; and Carnell, Victor V., 3,663,416.
- Nobell, Albert: *See—*
Christian, Daniel T.; Look, Melvin; Nobell, Albert; and Armstrong, Thomas S., 3,654,194.
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- Nobili, Pietro. Machine for washing loose materials. 3,680,570, 8-1-72, Cl. 134-134.000.
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Rosser, Eugene P.; and Lorenz, Howard I. (said Rosser assor. to), 3,664,442.
- Noble, Edward D., to Chevron Research Company. Catalyst manufacture. 3,657,151, 4-18-72, Cl. 252-437.
- Noble, Frank Raymond, to English Clays Lovering Pochin & Company Limited. Clay. 3,674,521, 7-4-72, Cl. 106-72.000.
- Noble, Hartsel Ledahl. Floor mat for stabilizing foot pedal box. 3,664,628, 5-23-72, Cl. 248-350.
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- Noble, John H., to Stone & Webster Engineering Corporation. Nuclear containment emergency ventilating system. 3,667,370, 6-6-72, Cl. 98-33.00r.
- Noble, Lowell A., to Varian Associates, mesne. Method of producing neutron source tube with coated target. 3,640,597, 2-8-72, Cl. 316-10.
- Noble Manufacturing Company: *See—*
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- Noble, Marshall: *See—*
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- Noble, Milton L., to General Electric Company. Complex data processing system employing incoherent optics. 3,652,162, 3-28-72, Cl. 356-71.
- Noble, Peter M., to Westinghouse Air Brake Company. Single guide member transit vehicle switching mechanism. 3,661,091, 5-9-72, Cl. 104-130.
- Noble, Philip S.; and Chapin, James R., to General Electric Company. Intermodal transfer system. 3,700,128, 10-24-72, Cl. 214-40.000.
- Noble, Robert L., to Fowler, Knobbe & Martens. Cottering device. 3,695,140, 10-3-72, Cl. 85-8.300.
- Noble, Wilbur E., to Kroehler Mfg. Co. Skirt for upholstered furniture. 3,652,373, 3-28-72, Cl. 161-50.
- Nobo Fabrikker A/S: *See—*
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- Nobouri, Murayama: *See—*
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- Nobukuni, Nakano: *See—*
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- Noda, Katsunobu: *See—*
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- Noda, Kazuo: *See—*
Ito, Mikiji; Yamada, Kenji; and Noda, Kazuo, 3,654,763.
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- Noda, Takeshi: *See—*
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- Noda, Tamotsu: *See—*
Yano, Masayoshi; and Noda, Tamotsu, 3,654,457.
- Noda, Yutaka: *See—*
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- Nodine, John H. Digital data entry device. 3,706,873, 12-19-72, Cl. 235-61.100.
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- Noel, Benjamin L., mesne: *See—*
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- Noel, Eugene M.: *See—*
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- Noel, Monroe L. Apparatus for indicating the face alignment of golf clubs. 3,631,602, 1-4-72, Cl. 33-174.
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- Noemer, Ewald Fred; Kau, Franz J.; and Ludemann, Heinz, to Agfa-Gevaert Aktiengesellschaft. Photographic copying apparatus. 3,661,458, 5-9-72, Cl. 355-88.
- Noesges, Raymond: *See—*
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- Noetinger, Philippe J., to Compagnie Generale d'Automatisme. Automatic sorting device. 3,640,367, 2-8-72, Cl. 193-31.
- Noetzold, Robert A.: *See—*
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- Nogiwa, Yasuo: *See—*
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- Noguchi, Hikoji. Plastic tray for eggs. 3,675,806, 7-11-72, Cl. 217-265.000.
- Noguchi, Hiroshi: *See—*
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- Noguchi, Isamu. Playground module. 3,666,266, 5-30-72, Cl. 272-60.000.
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- Noguchi, Masaaki: *See—*
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- Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,653,281.
- Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,700,079.
- Toyoda, Eiji; Noguchi, Masaaki; and Ito, Osamu, 3,693,479.
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- Taga, Koji; and Noguchi, Masahiko, 3,676,062.
- Noguchi, Shozo; and Nanko, Yoshiyuki, to Nippon Electric Company, Limited. Hermetically sealed semiconductor device. 3,663,868, 5-16-72, Cl. 317-234.00r.
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Duffek, Kenneth John; and Nolan, Thomas Hoyt, 3,680,076.

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Schaefer, Frederic Charles; and Noland, James Sterling, 3,660,316.

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Cragg, Hoyt J.; and Nolen, Doyle A., 3,660,447.

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Willard, Robert C.; Dauer, Harold L.; and Noles, Ronald Clifford, 3,661,087.

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Kuhlkamp, Alfred; Fischer, Edgar; and Nolken, Ernst, 3,634,343.

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Meinert, Hartmut, 3,643,688.

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Rosenstock, Milton M.; and Doundoulakis, George J., 3,643,540.

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Noly, Jean. Self propelled crane. 3,631,988, 1-4-72, Cl. 212-46.

Noma, Takao: See—
Yukisada, Toshio; Noma, Takao; Morisawa, Masanori; and Hashimoto, Osamu, 3,662,240.

Noma, Tetsuo: See—
Tatsutomi, Yasuo; and Noma, Tetsuo, 3,675,634.

Noma-World Wide, Inc.: See—
Bazinet, Wilfred P., Jr.; and Salce, John E., 3,681,164.

Paulfus, Bernard, 3,660,801.

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Nomarski, Georges: See—
Roblin, Gerard; and Nomarski, Georges, 3,706,492.

Nomine, Gerard: See—
Amiard, Gaston; Nomine, Gerard; and Torelli, Vesperto, 3,686,241.

Heymes, Rene; Amiard, Gaston; and Nomine, Gerard, 3,658,802.

Nomoto, Hiroshi: See—
Ohashi, Shin-Ichi; and Nomoto, Hiroshi, 3,636,378.

Nomoto, Shigeichi: See—
Aoyama, Shoichi; and Nomoto, Shigeichi, 3,651,737.

Nomura, Fumio; Takamiya, Yutaka; Mizuno, Sakuhiro; Higashi, Kunio; and Shimamoto, Toshihiro, to Matsushita Electric Industrial Co., Ltd. Controller for sewing machine. 3,703,698, 11-21-72, Cl. 338-108.000.

Nomura, Hiroaki: See—
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Nomura, Hirokazu, to Nippon Kokan Kabushiki Kaisha. Fillet welding method. 3,634,650, 1-11-72, Cl. 219-137.

Nomura, Hirokazu; Mimura, Michio; and Ono, Yoshiyuki, to Nippon Kokan Kabushiki Kaisha. Automatic welding apparatus with path follower. 3,654,425, 4-4-72, Cl. 219-125.

Nomura, Hirokazu, to Nippon Kokan Kabushiki Kaisha. Apparatus for simultaneously welding pairs of reinforcing plates to a base plate. 3,656,680, 4-18-72, Cl. 228-44.

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Nomura, Hirokazu, to Nippon Kokan Kabushiki Kaisha. Apparatus for forming T-welds between mutually perpendicular plates. 3,704,822, 12-5-72, Cl. 228-25.000.

Nomura, Hiroshi: See—
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Nomura, Hirotsugu: See—
Oguchi, Yutaka; and Nomura, Hirotsugu, 3,705,861.

Nomura, Katsuhiko, to Asahi Kogaku Kogyo Kabushiki Kaisha. Single lens reflex camera. 3,640,202, 2-8-72, Cl. 95-42.

Nomura, Katsuhiko; Watanabe, Koichiro; and Urano, Fumio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera for making multiple exposures. 3,650,191, 3-21-72, Cl. 95-31.

Nomura, Katsuhiko, to Asahi Kogaku Kogyo Kabushiki Kaisha. Spring-actuated mechanism particularly for single-lens reflex cameras. 3,680,458, 8-1-72, Cl. 95-42.000.

Nomura, Katsuhiko, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera structure for positioning a photosensitive component. 3,690,241, 9-12-72, Cl. 95-42.000.

Nomura, Kazuhiko, to Yamaha Hatsudoki Kabushiki Kaisha. Crank chamber compression-type two-cycle engine. 3,687,118, 8-29-72, Cl. 123-73.00r.

Nomura, Kazuhumi; Nakazato, Kunio; and Matsui, Hideki, to Sumitomo Chemical Company, Ltd. Method for separating alcohols and hydrated alumina from hydrolysts products of aluminum alkoxides. 3,647,374, 3-7-72, Cl. 23-143.

Nomura, Kenji: See—
Kurimoto, Mikishi; Ochiai, Yoshiki; Munekata, Keniti; and Nomura, Kenji, 3,691,655.

Nomura, Kikuziro: See—
Kikuchi, Makoto; and Nomura, Kikuziro, 3,656,262.

Nomura, Osamu; Fujii, Nobuhiro; Aoike, Nanjo; and Kamiya, Fumio, to Tokyo Shibaura Electric Co., Ltd. Apparatus for lighting discharge lamps. 3,649,869, 3-14-72, Cl. 315-205.

Nomura, Osamu; and Kamiya, Fumio, to Tokyo Shibaura Electric Co., Ltd. Apparatus for operating electric discharge lamps. 3,657,598, 4-18-72, Cl. 315-100.00r.

Nomura, Sadao: See—
Kojima, Hiroomi; Nomura, Sadao; and Kumada, Akio, 3,667,828.

Nomura, Seinosuke: See—
Okada, Sadaaki; and Nomura, Seinosuke, 3,686,845.

Nomura, Shigehiko; and Murata, Keiji, to Sakimura Research Institute Inc. Process for producing cutback asphalt mixtures. 3,666,244, 5-30-72, Cl. 259-148.

Nomura, Shozaburo: See—
Honda, Kiyoshi; Miyazaki, Mitsumasa; Nomura, Shozaburo; Akiyama, Kazuo; and Hirose, Kazutoyo, 3,694,415.

Nomura, Teruhiko: See—
Oshima, Keiji; Yamada, Shozo; Sakurai, Fujio; Iwasa, Yoshisuke; Horiuchi, Koichi; Uchida, Unosuke; Nomura, Teruhiko; and Tominaga, Yasushi, 3,699,203.

Nomura Toys, Ltd.: See—
Wakimura, Kazuo, 3,688,436.

Nomura, Yasuaki: See—
Kawamura, Toshiki; Ohneda, Tohru; Nomura, Yasuaki; and Taguchi, Kikuo, 3,685,725.

Nomura, Yasuichi: See—
Maeda, Itsutoshi; Nomura, Yasuichi; Hashimoto, Kohei; Shimizu, Akira; Mitsugi, Koji; and Yoshida, Ryonosuke, 3,707,505.

Nomura, Yasuo: See—
Tanaka, Takashi; and Nomura, Yasuo, 3,672,044.

Nomura, Yoshiro. Device of walking legs for a toy animal. 3,678,617, 7-25-72, Cl. 46-149.000.

Nomura, Yukihiko, to Alps Electric Co., Ltd. Slide rheostat and push-pull switch assembly. 3,668,597, 6-6-72, Cl. 338-198.000.

Nomura, Yukihiko, to Alps Electric Co., Ltd. Control mechanism for adjustable electrical device including indicating means. 3,676,827, 7-11-72, Cl. 338-183.000.

Non-Acoustic Audio Corporation: See—
Salmonsohn, Max A.; and La Monica, Daniel A., 3,689,709.

Nonaka, Masahide, to United States of America, Agriculture. Process for recovery of meat essences. 3,669,690, 6-13-72, Cl. 99-140.00r.

Nonn, Gerhard: See—
Ostwald, Fritz; Bender, Alfred; and Nonn, Gerhard, 3,678,954.

Nonnecke, Ernst A., to McMullen, John J., mesne. Apparatus for cooling and filling liquefied gas transport and storage tanks and improvements in said tanks. 3,670,517, 6-20-72, Cl. 62-45.000.

Nooi, Jacobus Roelof, to Lever Brothers Company. 2,2'-Disulfonated dialkyl sulfoxides and sulfones. 3,666,796, 5-30-72, Cl. 260-513.

Nooker, Eugene L.; Thompson, Luther G.; Varney, Glenn E.; and Dietz, Victor J., to United States of America, Navy. Continuous rod warhead. 3,690,257, 9-12-72, Cl. 102-67.000.

Noon, Alonzo W., to Electroprint, Inc. Toner charging and feeding machine. 3,677,224, 7-18-72, Cl. 118-63.000.

Noonan, Charles B.: See—
Snow, Gerald A.; Doughty, Harold A.; Allard, Charles E.; and Noonan, Charles B., 3,688,963.

Noonan, Robert J. Holder for pressure cylinders. 3,643,813, 2-22-72, Cl. 211-75.

Noone, Thomas M., to Richardson Company, The. Composite material and process for preparing same. 3,674,547, 7-4-72, Cl. 117-135.500.

Noordam, John Paul, Jr. Fisherman's soap. 3,666,669, 5-30-72, Cl. 252-132.000.

Noorlander, Daniel O., to Milk Producers, Inc. Sample device and method. 3,655,515, 4-11-72, Cl. 195-103.5.

Noorlander, Daniel O. Teat cup inflation. 3,659,557, 5-2-72, Cl. 119-14.36.

Noorlander, Daniel O. Teat cup inflation. 3,659,558, 5-2-72, Cl. 119-14.52.

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Heilmann, Le Roy W., 3,685,508.

Noothout, Arend J.: See—
Kanij, Johannes B. W.; and Noothout, Arend J., 3,669,632.

Nor-Wear Tools, Inc.: See—
Neward, George A.; and Novek, Joseph F., 3,689,729.

Nora International Company: See—
Caleffi, Abele, 3,689,398.

Messner, Georg, 3,654,120.

Norberg, John: See—

- Schreiber, Erich; Freyn, Fritz; and Norberg, John, 3,703,178.
 Norac Company, Inc., The: *See*—
 McCloskey, Chester M.; Rees, Donald E.; and Hoff, George, 3,649,546.
 McCloskey, Chester M.; Rees, Donald E.; and Hoff, George, 3,649,548.
 McCloskey, Chester M.; Rees, Donald E.; and Hoff, George L., 3,692,841.
 Noranda Metal Industries Inc., mesnc: *See*—
 French, Fred W., 3,662,582.
 Noranda Mines Limited: *See*—
 Themelis, Nickolas J.; and Rawling, John R., 3,663,207.
 Themelis, Nickolas J.; and Tarassoff, Peter, 3,700,431.
 Vogt, John; Schmidt, Paul; and Mills, Leonard, 3,650,519.
 Norberg, Gayle R., to Control Data Corporation. Adaptive data priority generator. 3,699,524, 10-17-72, Cl. 340-172.500.
 Norbert, Stuttgart: *See*—
 Scholl, Hermann; Norbert, Stuttgart; Gansert, Willi; and Arnold, Herbert, 3,678,904.
 Norbistrath, Max, to Spezial-Papiermaschinenfabrik August Alfred Krupp. Machine for winding tape-like strip onto reels. 3,650,488, 3-21-72, Cl. 242-67.3.
 Norbro Corporation: *See*—
 Moore, James F., Jr.; and Norgren, Leigh H. (said Norgren as-sor. to), 3,655,196.
 Norco, Inc.: *See*—
 Lehman, Kenneth G., 3,675,531.
 Norcross, Austin S., to Norcross Corporation. Magnetically coupled viscometer. 3,677,070, 7-18-72, Cl. 73-57.000.
 Norcross, Austin S., to Norcross Corporation. Detector for viscosity measuring system. 3,686,931, 8-29-72, Cl. 73-57.000.
 Norcross Corporation: *See*—
 Norcross, Austin S., 3,677,070.
 Norcross, Austin S., 3,686,931.
 Norcross Engineering Company: *See*—
 Wahnschaff, Paul, 3,688,622.
 Norcross, Inc.: *See*—
 Boylan, Thomas E., 3,687,091.
 Norcross, James E.: *See*—
 Thomas, Royal David, Jr.; and Norcross, James E., 3,696,228.
 Norcross, Kenneth, to Nairn-Williamson Limited. Polyurethane suede embossing. 3,632,727, 1-4-72, Cl. 264-232.
 Norcross, Paul A.: *See*—
 Jamison, Robert W.; and Norcross, Paul A., 3,675,199.
 Nord, Eric T.: *See*—
 Hogstrom, Edwin F.; Stumphauzer, William C.; and Nord, Eric T., 3,640,758.
 Stumphauzer, William C.; Hogstrom, Edwin F.; Nord, Eric T.; Schneider, Richard E.; and Rood, Alvin A., 3,697,313.
 Nord, Eric T.; Rosen, Samuel R.; Scarbrough, Don R.; Vilagi, Burton J.; and Runstadler, Peter W., Jr., to Nordson Corporation. Paint spraying method and apparatus. 3,635,400, 1-18-72, Cl. 239-15.
 Nord, Sven Gustaf. Dishwasher device causing an aperiodical water flow. 3,678,957, 7-25-72, Cl. 137-268.000.
 Nord-Aviation Societe Nationale de Constructions Aeronautiques: *See*—
 Lavarenne, Jean, 3,648,267.
 Lavarenne, Jean, 3,651,582.
 Melquion, Henri; Stauff, Emile; and Guillot, Jean, 3,654,030.
 Stauff, Emile; Guillot, Jean; Allard, Pierre; Schubert, Johannes; Topfer, Heinz; and Prier, Erich, 3,653,288.
 Stauff, Emile; and Fleury, Roger, 3,672,607.
 Nordal, Vegard: *See*—
 Almen, Torsten H. O.; Haavaldsen, Johan; and Nordal, Vegard, 3,701,771.
 Salvesen, Sigbjorn; Haugen, Leif Gunnar; Haavaldsen, Johan; and Nordal, Vegard, 3,702,866.
 Nordal, Vegard, to Nyegaard & Co. A/S. Process for the preparation of acylamido-2,4, 6-triiodobenzoic acids. 3,681,433, 8-1-72, Cl. 260-470.000.
 Nordblom, George F.; and James, Herbert L., to ESB Incorporated. Zinc electrode containing an additive to reduce gassing at the zinc electrode in a heat sterilized silver-zinc alkaline battery. 3,639,176, 2-1-72, Cl. 136-30.
 Nordbrock, Raymond E., to Motorola, Inc. Voltage regulator circuit for a brushless alternator. 3,697,859, 10-10-72, Cl. 322-28.000.
 Norddeutsche Affinerie: *See*—
 Emicke, Klaus; and Goralczyk, Wilhelm, 3,684,489.
 Haberland, Erich; and Perkow, Werner, 3,679,359.
 Kniprath, Elmar, 3,685,965.
 Schulze, Reinhold, 3,696,012.
 Nordeen, Erwin E., to Whirlpool Corporation. Vacuum cleaner. 3,675,268, 7-11-72, Cl. 15-350.000.
 Nordeen, Erwin E., to Whirlpool Corporation. Vacuum cleaner nozzle lifting device. 3,676,892, 7-18-72, Cl. 15-359.000.
 Nordeen, Erwin E., to Whirlpool Corporation. Vacuum cleaner. 3,683,449, 8-15-72, Cl. 15-410.000.
 Nordeen, Gerald C. Fishing apparatus. 3,698,121, 10-17-72, Cl. 43-43.140.
 Nordell, Carl H.: *See*—

- Crandall, Richard; and Nordell, Carl H., 3,667,602.
 Norden, Alexander R., to Westinghouse Electric Corporation. Electric switchgear with cover and switch interlock means and handle latching means. 3,632,917, 1-4-72, Cl. 200-42.
 Norden, Alexander R., to Westinghouse Electric Corporation. Electric switchgear with contact viewing and contact mounting means. 3,636,291, 1-18-72, Cl. 200-166.
 Norden, Alexander R. Thermostat. 3,665,360, 5-23-72, Cl. 337-100.000.
 Norden, Alexander R., to O. Z. Electrical Manufacturing Company. Ground connector for conduit. 3,706,959, 12-19-72, Cl. 339-14.00r.
 Nordenholt, George F. Caulking gun. 3,651,994, 3-28-72, Cl. 222-160.
 Nordgard, Carl Sigvard, to Svenska Interpur AB. Purification assembly. 3,688,905, 9-5-72, Cl. 210-151.000.
 Nordgren, Alfred A., to Dunn, W. E., Mfg. Co. Apparatus and process for making concrete pipe reinforcement member. 3,661,186, 5-9-72, Cl. 140-107.
 Nordgren, Alfred A., to Dunn, W. E., Mfg. Co. Apparatus and method for cage rolling and welding. 3,678,971, 7-25-72, Cl. 140-107.000.
 Nordgren, Hans Elov. Device in foldable enclosures. 3,673,638, 7-4-72, Cl. 24-19.000.
 Nordgren, Ronald P.: *See*—
 Kuo, Chiang-Hai; Nordgren, Ronald P.; and Vogiatzis, John P., 3,636,762.
 Nordholm, Lloyd P.: *See*—
 Florance, Douglas A.; Nordholm, Lloyd P.; and Foldes, Stephen, 3,641,393.
 Florance, Douglas A.; and Nordholm, Lloyd P., 3,651,399.
 Nordin, Ivan C. Tetrahydropyrazolodiazepinone compounds and methods for their production. 3,700,657, 10-24-72, Cl. 260-239.30b.
 Nordin, Lars-Erik Reinhold; and Mollerfors, Lars William Anshelm, to Stenberg-Flygt AB. Spring biased check valve for pipe branches. 3,705,602, 12-12-72, Cl. 137-512.000.
 Nordine, Richard, to Copystatics Manufacturing Corporation. Automatic shut-off circuit for copying machine. 3,676,691, 7-11-72, Cl. 250-222.00r.
 Nordischer Maschinenbau Rud Baader: *See*—
 Dohrendorf, Franz Friedrich Johannes, 3,680,174.
 Nordisk Ventilator Co., A/S: *See*—
 Iversen, Christian Eduard, 3,688,681.
 Kristiansen, Svend Helge, 3,635,589.
 Nordiska Maskinfilt Aktiebolaget: *See*—
 Eriksson, Erik Birger, 3,673,024.
 Nordling, Frederik, to Lynch Communication Systems, Inc. Multiple level detector. 3,633,045, 1-4-72, Cl. 307-235.
 Nordman, Adolph J.: *See*—
 Overmyer, Robert C.; and Nordman, Adolph J., 3,705,545.
 Nordman, Edwin; and Tischer, Siegfried, to VEB Mikromat Dresden. Tool changing mechanism. 3,633,764, 1-11-72, Cl. 214-1.
 Nordmann, Harald; and Schmidt, Kurt, to Aktiengesellschaft Brown, Boveri & Cie. Means for securing the coils of an electric machine in the slots of the iron body thereof and device for introducing the means in the slots. 3,665,576, 5-30-72, Cl. 29-205.
 Nordnorg Aktiengesellschaft: *See*—
 Ericson, Harry A. H.; and Norstedt, Gustav Bertil, 3,645,867.
 Nordqvist, Karl Gustav, to Rederiaktiebolaget Nordstjernan. Radiation sensitive length measuring system. 3,655,990, 4-11-72, Cl. 250-219.
 Nordseth, Marvin P.; and Hueber, Werner G., to United States of America, Navy. Electronic area correlator with multiple input signals. 3,662,104, 5-9-72, Cl. 178-6.8.
 Nordsiel, Karl-Heinz, to Chemische Werke Huls Aktiengesellschaft. Process for the defined increase of the molecular weight of solid, unsaturated elastomers. 3,696,087, 10-3-72, Cl. 260-85.100.
 Nordskog Company, Inc.: *See*—
 Nordskog, Robert A., 3,690,415.
 Nordskog, Robert A., to Nordskog Company, Inc. Wheel lock assembly. 3,690,415, 9-12-72, Cl. 188-69.000.
 Nordson Corporation: *See*—
 Algeri, Harvey R.; and Sandorf, Robert E., 3,682,131.
 Baker, Robert G.; and Rosen, Samuel R., 3,690,518.
 Hogstrom, Edwin F.; Stumphauzer, William C.; and Nord, Eric T., 3,640,758.
 Nord, Eric T.; Rosen, Samuel R.; Scarbrough, Don R.; Vilagi, Burton J.; and Runstadler, Peter W., Jr., 3,635,400.
 Rood, Alvin A., 3,658,257.
 Rood, Alvin A.; Hogstrom, Edwin F.; and Stumphauzer, William C., 3,702,107.
 Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., 3,635,125.
 Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., 3,675,732.
 Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., 3,676,642.
 Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., 3,692,274.

- Scarbrough, Don R.; and Vilagi, Burton J., 3,672,570.
 Stumphauzer, William C.; Hogstrom, Edwin F.; Nord, Eric T.; Schneider, Richard E.; and Rood, Alvin A., 3,697,313.
 Nordstrand, Leif Roland, to Monark-Crescent Aktiebolag. Washer systems for cleaning surfaces. 3,656,691, 4-18-72, Cl. 239-284.
 Nordstrand, Leif Roland, to Kamas Kvarnmaskiner AB. Machine for separating a sheet from a sheet pile. 3,672,516, 6-27-72, Cl. 214-8.50a.
 Nordstrom, Carl Gustaf. Transport of track-laying vehicles. 3,656,780, 4-18-72, Cl. 280-415.
 Nordstrom, John D.; and Zelek, Carolyn B., to Ford Motor Company. Acrylic-siloxane resin paint IV. 3,650,811, 3-21-72, Cl. 117-93.31.
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 Nordstrom, Knut Lennart. Maneuvering command display for aircraft. 3,691,520, 9-12-72, Cl. 340-27.0at.
 Nordstrom, Olle: *See*—
 Kullberg, Otto Gosta; and Nordstrom, Olle, 3,653,727.
 Nordstrom, Per Christer. Building block. 3,672,110, 6-27-72, Cl. 52-608.000.
 Nordstrom, Wallace C.; and Welles, Albert W., to United States of America, Navy. Acoustic target source. 3,706,963, 12-19-72, Cl. 340-5.00d.
 Nordt, Egon: *See*—
 Bienert, Klaus; Lang, Winfried; Nordt, Egon; and Weidner, Herbert, 3,700,413.
 Nordyke, Milo D., to United States of America, Atomic Energy Commission. Nuclear explosive method for stimulating hydrocarbon production from petroliferous formations. 3,688,843, 9-5-72, Cl. 166-247.000.
 Noren, Carl Anders, to Atlas Copco Aktiebolag. Fluidic devices. 3,656,495, 4-18-72, Cl. 137-81.5.
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 Noren, Oscar B.: *See*—
 Graham, Richard J.; Mottin, Ralph E.; and Noren, Oscar B., 3,664,495.
 Noren Products, Inc.: *See*—
 Noren, Don W., 3,680,189.
 Noren, Don W., 3,700,028.
 Noren, Tore H. Swingable comb for closing magnetic switch for controlling hot rinse water in a dishwasher. 3,668,346, 6-6-72, Cl. 200-61.410.
 Noren, Tore H. Dishwashing machine and dish-conveying table with recirculating flushing trough. 3,698,407, 10-17-72, Cl. 134-60.000.
 Norenburg, Johannes C.: *See*—
 Crawford, Duffer B.; and Norenburg, Johannes C., 3,675,434.
 Noreus, Goteborg Sture Erik Olof: *See*—
 Samuelson, Hans Olof; and Noreus, Goteborg Sture Erik Olof, 3,701,712.
 Noreus, Sture Erik: *See*—
 Croon, Ingemar Liss-Albin; Dillen, Sten Oskar; and Noreus, Sture Erik, 3,652,388.
 Noreus, Sture Erik Olof; and Samuelson, Hans Olof, to Mo och Domsjo Aktiebolag. Process for treating cellulosic materials from which metal ions have been removed with alkali and oxygen in the presence of complex magnesium salts. 3,639,205, 2-1-72, Cl. 162-3.
 Noreus, Sture Erik Olof; and Samuelson, Hans Olof, to Mo och Domsjo Aktiebolag. Process for treating cellulosic materials from which metal ions have been removed with alkali and oxygen in the presence of complex magnesium salts. 3,652,385, 3-28-72, Cl. 162.23.
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 Norfin, Inc.: *See*—
 Snellman, Donald L.; Marson, Richard A.; and Davis, Ernest D., 3,646,372.
 Snellman, Donald L.; and Greene, Ronald W., 3,652,079.
 Snellman, Donald L., 3,658,324.
 Snellman, Donald L.; and Hudson, Willard G., 3,662,533.
 Norfolk, Cyril Leslie, to Fry's (London) Limited. Manufacture of saw blades. 3,685,373, 8-22-72, Cl. 76-112.000.
 Norgen, Lars E.: *See*—
 Faber, Kurt H. A. E.; and Norgen, Lars E., 3,697,187.
 Norgren, C. A., Co.: *See*—
 Dewberry, Albert W., 3,670,771.
 Dolegowski, Arthur R., 3,680,661.
 Dussardier, Claude J., 3,707,204.
 Humphrey, John J., 3,651,889.
 Nickels, William M., 3,687,163.
 Norgren, Leigh H.: *See*—
 Moore, James F., Jr.; and Norgren, Leigh H., 3,655,196.
 Norian, Roger F.: *See*—
 Shuey, David R.; and Norian, Roger F., 3,700,990.
 Norian, Roger F.; and Koning, Virgil H., to Xerox Corporation. Transition integration switching amplifier. 3,668,414, 6-6-72, Cl. 307-104.
 Norick, William B.: *See*—
 Engel, William K.; Norick, William B.; Saint Germain, James L.; and Hakkenberg Van Gaasbeek, Peter, 3,635,126.
 Hufeld, John L.; Larson, Donald J.; Marsden, Howard A.; Mueller, James P.; and Norick, William B., 3,680,588.
 Kostas, James M.; Norick, William B.; and Laughlin, Raymond R., 3,656,642.
 Norimatsu, Toshiaki: *See*—
 Katsuyama, Shigeo; Asami, Atsumi; Watanabe, Masahide; Sato, Tsutomu; Norimatsu, Toshiaki; and Nakajima, Eizo, 3,672,819.
 Norin, Carl Torbjorn: *See*—
 Gierer, Josef Franz; and Norin, Carl Torbjorn, 3,694,309.
 Norin, Robert W.; and Roth, Donald J., to Continental Can Company, Inc. Pulsed liquid wire electrohydraulic system. 3,668,365, 6-6-72, Cl. 219-149.000.
 Norio Saito: *See*—
 Saito, Norio; and Kimura, Hiroshi, 3,703,588.
 Norita, Toshihito: *See*—
 Iwao, Norito; Naito Koichiro; Kawaguchi, Tadashi; Maeda, Minoru; and Norita, Toshihito, 3,681,052.
 Noritani, Jinichiro: *See*—
 Hasegawa, Hidenobu; Kusuda, Zenji; Tanaka, Akira; and Noritani, Jinichiro, 3,633,082.
 Norito, Ogawa: *See*—
 Seko, Maomi; Yomiyama, Akira; Ogawa, Shinsaku; Tetsuya, Miyake; Ryozo, Komori; and Norito, Ogawa, 3,682,792.
 Norling, Charles H.: *See*—
 Edstrom, Woodrow O.; and Norling, Charles H., 3,673,669.
 Normalair-Garrett Limited: *See*—
 Furlong, Owen Desmond Arthur Charles; and Young, Michael Arthur Bennett, 3,633,603.
 Norman, Charles R., to Harris-Intertype Corporation. Heated adhesive applicator roll system. 3,706,298, 12-19-72, Cl. 118-5.000.
 Norman, Donald E., to Kraftco Corporation. Package seal. 3,661,322, 5-9-72, Cl. 229-55.
 Norman, Harry B. Air circulating device. 3,667,872, 6-6-72, Cl. 417-423.
 Norman, Harry H., 1/2 to Baliski, Stephen. Spring assembly. 3,657,749, 4-25-72, Cl. 5-271.
 Norman Industries, Inc.: *See*—
 Brody, Norman M., 3,660,211.
 Brody, Norman M., 3,695,982.
 Norman, John R., to T.I. (Group Services) Limited. Means for irradiating materials. 3,683,179, 8-8-72, Cl. 250-49.5te.
 Norman, Leslie W.; Hunter, Skillman C.; and Perrone, George L., to Garrett Corporation, The. Method and apparatus for starting detonation combustion engines. 3,646,761, 3-7-72, Cl. 60-204.
 Norman, Marvin Neil: *See*—
 Allen, John Kenneth; and Norman, Marvin Neil, 3,692,931.
 Norman, Melvin H.; and Hawthorne, Nathaniel F., to Singer Company, The. Braking device for a tape dispenser. 3,664,597, 5-23-72, Cl. 242-75.400.
 Norman, Michael Eric: *See*—
 Harman, Julius; and Norman, Michael Eric, 3,689,088.
 Norman, Neville Marshall; and Morley, Derek Colebrock. Safety belts. 3,633,965, 1-11-72, Cl. 296-385.
 Norman, Rayford M. Electrical capacitor assembly with replaceable units. 3,676,753, 7-11-72, Cl. 317-230.000.
 Norman, Reginald J.: *See*—
 Morris, Andrew W.; and Norman, Reginald J., 3,676,247.
 Norman, Richard R., 50% to Bressickello, Tony J. Automatic bag packing apparatus for check-out. 3,699,741, 10-24-72, Cl. 53-29.000.
 Norman, Thomas W.: *See*—
 Foucher, Walter D., Jr.; and Norman, Thomas W., 3,681,260.
 Norman, Vello; and Williams, Thomas B., to Liggett & Myers Incorporated. Tobacco smoke filter. 3,664,352, 5-23-72, Cl. 131-264.
 Norman, Vello; Williams, Thomas B.; Kallianos, Andrew G.; and Mold, James D., to Liggett & Myers Incorporated. Tobacco composition. 3,703,901, 11-28-72, Cl. 131-17.00r.
 Norman, Victor B. Modular system of roof heater shingles. 3,691,343, 9-12-72, Cl. 219-213.000.
 Norman-Buttett Display Industries, Inc.: *See*—
 Eaton, Robert A., 3,659,365.
 Normand, Floyd L.: *See*—
 Donaldson, Darrell J.; Normand, Floyd L.; and Drake, George L., Jr., 3,698,854.
 Normand, Lestan P., Jr. Automatic wing stabilizer for boats. 3,648,641, 3-14-72, Cl. 114-123.
 Normanton, James K., to Bakelite Xylonite Limited. Expandable insulation compositions. 3,645,929, 2-29-72, Cl. 260-2.5.

Normanton, James K., to Bakelite Xylonite Limited. Expandable compositions and products. 3,645,930, 2-29-72, Cl. 260-2.5.

Normanton, James K., to Bakelite Xylonite Limited. Blowing agent compositions. 3,645,931, 2-29-72, Cl. 260-2.5.

Noroi, Reimei: *See—*
Yamamura, Yuichi; Fujii, Setsuro; Okano, Atsui; Hirata, Miyoshi; Abiko, Yasushi; Inaoka, Masato; Noroi, Reimei; Iwamoto, Mashiro; Funabashi, Shoichi; and Kaito, Takeo, 3,699,149.

Norota, Susumu: *See—*
Fukuda, Masao; Goto, Hachiro; Norota, Susumu; and Fujisawa, Yukimasa, 3,679,533.

Norr, Artur Valter Leopold; and Holm, Fritz Bertil Willy, to AGA Aktiebolag. Storage device for organ transplants. 3,654,085, 4-4-72, Cl. 195-127.

Norrell, Arvin L.; and Norrell, Arvin W. Tool bar construction. 3,698,489, 10-17-72, Cl. 172-656.000.

Norrell, Arvin W.: *See—*
Norrell, Arvin L.; and Norrell, Arvin W., 3,698,489.

Norrenberg-Sudhaus, Ernst, to Heinrich Sudhaus Sohne Metallwarenfabrik. Closure for suitcases and the like with jimmy-proof locking mechanism. 3,646,787, 3-7-72, Cl. 70-70.

Norris, Alan H., to Bigelow-Sanford, Inc. Anti-static yarn and fabrics. 3,690,057, 9-12-72, Cl. 57-167.000.

Norris, Clarence G.; and Merrick, Woodrow W. Method of applying a metal plate to a refractory brick. 3,698,068, 10-17-72, Cl. 29-509.000.

Norris, Elwood S., to Medical Development Corporation. Phase lock doppler system for monitoring blood vessel movement. 3,631,849, 1-4-72, Cl. 128-2.05.

Norris Food Service, Inc.: *See—*
Happel, Hermann E., 3,658,047.

Norris, George F., to United States of America, Health, Education and Welfare. Laboratory homogenizer. 3,666,187, 5-30-72, Cl. 241-90.000.

Norris Industries Inc.: *See—*
Buerki, Christian E., 3,699,300.
Fane, William J.; and Sanders, Vernard W., 3,653,235.
Nee, Michael A., 3,677,131.
Russell, Frank W., 3,701,195.

Norris, James D., to Thermal Process Engineering Company. Cooking grill. 3,646,880, 3-7-72, Cl. 99-349.

Norris, Kermit A., to Leach Corporation. Derived clock circuit in a phase modulated digital data handling system. 3,636,536, 1-18-72, Cl. 340-174.1.

Norris, Kermit A., to Leach Corporation, mesne. Magnetic record and reproduce system for digital data having a NRZC format. 3,641,524, 2-8-72, Cl. 340-174.1.

Norris, Kermit A., to Leach Corporation. Split-phase adaptive decoding electronics. 3,646,546, 2-29-72, Cl. 340-347.

Norris, Leon F., to Sherritt Gordon Mines Limited. Preparation of powder metallurgy compositions containing dispersed refractory oxides and precipitation hardening elements. 3,695,868, 10-3-72, Cl. 75-206.000.

Norris, Max E., to SCM Corporation. Hydrated emulsifier. 3,671,459, 6-20-72, Cl. 252-356.000.

Norris, Max E., to SCM Corporation. Hydrated emulsifiers for bakery products. 3,702,307, 11-7-72, Cl. 252-356.000.

Norris, Melvin N. Drive for belt conveyors. 3,668,485, 6-6-72, Cl. 318-102.

Norris, Peter Edward, to RCA Corporation. Method of detecting the completion of plasma anodization of a metal on a semiconductor body. 3,658,672, 4-25-72, Cl. 204-164.

Norris, Philip R., to Polaroid Corporation. Stereo rangefinder. 3,661,064, 5-9-72, Cl. 95-44.

Norris, Philip R., to Polaroid Corporation. Multiple zone stereo rangefinder. 3,687,041, 8-29-72, Cl. 95-44.00c.

Norris, Raymond H.; and Bradford, Richard H., Jr. Display device. 3,651,319, 3-21-72, Cl. 240-10.1.

Norris, Russell, to Procter & Gamble Company, The. Enzyme detergent composition containing coagglomerated perborate bleaching agent. 3,664,961, 5-23-72, Cl. 252-99.

Norris, Wayne D.: *See—*
Roy, Edmond A.; Coolbaugh, James C.; Norris, Wayne D.; and Arm, Herbert G., 3,694,146.

Norris, William P., to United States of America, Navy. Preparation of poly alpha, alpha 2,3,5,6-hexafluoro-p-xylylene. 3,694,495, 9-26-72, Cl. 260-515.00a.

Norrmann, Jan Olof: *See—*
Naumburg, Per; and Norrmann, Jan Olof, 3,672,630.

Norrmann, Ruben Henry, to Spanset Inter AG. Straps. 3,707,021, 12-26-72, Cl. 24-16.00r.

Norsby, Norrain E.; and Johnson, Ernest W., to General Mills, Inc. Process for making a ready-to-bake pie crust. 3,692,535, 9-19-72, Cl. 99-92.000.

Norsby, Norrain E.; Kozlik, Robert F.; and Roach, John R., to General Mills, Inc. Process for preparing dry layer cake mix and the resulting product. 3,694,229, 9-26-72, Cl. 99-94.000.

Norsk Hydro A/S: *See—*
Auerdahl, Olav, 3,641,966.

Gitlesen, Gunnar, 3,653,880.

Norsk Hydro Verksteder A/S: *See—*
Aas, Saebjorn; and Brathen, Kare, 3,654,891.

Norsk Hydro-Elektrisk Kvaestofaktieselskab: *See—*
Alm, Rasmus Strande, 3,667,851.

Norsk Sprængstofindustri A/S: *See—*
Lovold, Kjell, 3,660,546.

Norstedt, Gustav Bertil: *See—*
Ericson, Harry A. H.; and Norstedt, Gustav Bertil, 3,645,867.

Nortec Computer Devices, Inc.: *See—*
Curtiss, Robert H.; Holzman, Richard; and Lazarow, Seldan A., 3,673,955.

North American Aviation, Inc.: *See—*
Bayle, Guy P.; and Johnson, Douglas A., 3,680,094.
Bayle, Guy P.; Smyth, Richard K.; and Gustafson, Robert D., 3,706,988.
Friedman, Robert; Leshner, Howard D.; and Burley, Richard K., 3,657,511.
Kuhn, Richard B., 3,679,825.
Pilipovich, Donald; and Schack, Carl J., 3,692,476.
Thompson, Wallace W., 3,692,598.

North American Car Corporation, mesne: *See—*
Johnstone, Cyril Patrick, 3,687,369.

North American Door Corporation: *See—*
Lester, Russell H., Jr., 3,680,622.
Sheer, Samuel Irving, 3,672,492.

North American Instrument Corporation: *See—*
Morse, Phillip H.; and Yarter, James R., 3,633,758.

North American Manufacturing Company, The: *See—*
Davies, Theodore E., 3,666,393.
Placek, Donald D., 3,705,594.

North American Philips Co., Inc.: *See—*
Duyffes, Werner; and Maas, Willem, 3,686,419.
Robinson, David Phytian; Beale, Julian Robert Anthony; Shannon, John Martin; Kerr, John Anthony; and Das, Mukunda Behari, 3,653,978.

North American Philips Company, Inc.: *See—*
Le Coq, Daniel, 3,677,833.

North American Philips Corporation: *See—*
Biederman, Stuart J.; and Jezewski, Walter E., 3,668,760.
Buyak, William P., 3,694,672.
Crowell, Merton Howard, 3,679,826.
Gaffney, Francis J.; Hegen, Joseph F.; and Clark, Gerald F., 3,673,382.
Hunt, Charles A., 3,638,509.
Joyce, Michael F., 3,693,060.
Kurtz, Stewart Kendall, 3,697,762.
Loughran, Eugene F., Jr., 3,671,900.

North American Rockwell Corporation: *See—*
Amato, Richard A., 3,699,765.
Anderson, Dean B., 3,660,673.
Anke, Rudolph G.; and Moyer, James D., 3,698,210.
Archambault, Roger J., 3,699,766.
Argue, Gary R.; and Owens, Boone B., 3,701,686.
Artz, Glen D., 3,650,856.
Atkinson, James L., 3,642,334.
August, Rudolf R.; and Palmquist, Richard L., 3,670,218.
Barnett, Buford F.; and Knaus, Gilbert M., 3,642,695.
Barrett, Donald H., 3,667,396.
Barron, Benny G., 3,649,389.
Bernath, Louis; and Facha, Joseph V., 3,671,394.
Beyer, Frank R., 3,682,774.
Bixby, Leo A., 3,679,016.
Bochinski, Julius H., 3,654,113.
Bochinski, Julius H.; and Linkel, John E., 3,698,699.
Booher, Robert K., 3,678,290.
Brixius, Jacob K.; Takacs, Lawrence M.; and Van Sweringen, James P., 3,698,161.
Brown, Sherman D.; Schroeder, Thomas F.; and Conabee, Earl E. (said Brown and said Schroeder assors. to), 3,657,063.
Budzyrna, Joseph M., 3,706,327.
Burley, Richard Kenneth; Friedman, Robert; and Esher, Howard D., 3,689,734.
Campbell, Mark E., 3,699,519.
Carlise, Robert L., 3,634,756.
Cassen, Quentin C.; Luisi, James A.; and Salman, Naif D., 3,671,948.
Catterfeld, Fritz C.; Macaluso, Sebastian B.; and Weber, Lawrence D., 3,695,367.
Chabot, Leo L., 3,699,760.
Christie, Joseph H.; and Humphrey, James R., 3,647,549.
Coker, Jesse E.; and Galli, Guido, 3,658,582.
Conn, Charles E., Jr.; and Neumann, Robert P., 3,668,769.
Cramp, Allen R.; and Brion, Kenneth J., 3,672,207.
Curniston, Loren E.; and Perry, Alden P., 3,691,853.
DeForest, William S.; Heap, Richard T.; Widmont, Joseph C.; and Zagorin, Harold, 3,666,639.
Denigan, Thomas R.; and Thomas, James L., 3,699,839.
Desliettes, John M., 3,683,835.
Deutsch, Ralph, 3,659,488.
Deutsch, Ralph, 3,697,661.

Dubois, Joseph W., 3,691,744.

Dyer, George A., 3,678,298.

Dyer, George A., 3,694,758.

Easoz, Robert D., 3,699,888.

Ebertin, Michel A., 3,678,476.

Ervin, Guy, III, 3,701,685.

Estes, Joseph F.; and Kertesz, Imre, 3,673,873.

Etchell, Gordon, 3,677,121.

Etchell, Gordon, 3,696,744.

Fagan, James R., 3,699,327.

Farrand, William A., 3,668,042.

Fitzgerald, James E., 3,677,904.

Flamand, Maurice R., 3,672,405.

Flanagan, Joseph E., 3,668,026.

Fox, Duane C., 3,662,347.

Frankel, Milton B.; Warner, Michael G.; and Witucki, Edward F., 3,642,830.

French, Franklin J.; and Mitchell, Dominic C., 3,634,136.

Fujimoto, Ted Y., 3,641,366.

Fujimoto, Ted Y., 3,646,369.

Fujirawa, Cliff Y., 3,707,564.

Gage, Arthur, 3,662,941.

Galli, Guido; and Coker, Jesse E., 3,664,867.

Gibson, Earl D., 3,638,122.

Gibson, Earl D., 3,651,316.

Gibson, Earl D., 3,667,050.

Gibson, Earl D., 3,694,752.

Gibson, Earl D., 3,697,689.

Gibson, Earl D., 3,699,321.

Golden, Roger M.; and White, Stanley A., 3,639,739.

Grant, Louis R., Jr.; and Gunderloy, Frank C., Jr., 3,653,953.

Gunderloy, Frank C., Jr.; Hamermesh, Charles L.; and Wagner, Ross I., 3,690,971.

Harr, Raymond W.; and Rothman, Mathew, 3,661,088.

Harris, Ronald E., 3,698,966.

Hartmann, Frederick; and Huffmann, Billy J., 3,665,419.

Hartmann, Frederick, 3,673,394.

Hegeman, Rutledge G.; and Moyer, James D., 3,702,548.

Heimbigner, Gary Lee, 3,641,370.

Heimbigner, Gary Lee, 3,665,473.

Helton, Charles J., 3,661,315.

Hope, Jack I., 3,659,422.

Hrusovsky, Louis J., 3,661,655.

Hughes, Roland O.; and Allen, Joseph H., 3,641,323.

Iannucci, Vincent A.; and Schartel, Ronald S., 3,691,795.

James, Cyril P.; and Washchynsky, Bohdan, 3,691,956.

Jezuit, Leslie J.; and Kollars, Harold R., 3,673,959.

Jordan, Frank W.; and Webb, Leonard D., 3,691,955.

Kaufman, Robert H.; and Richardson, Donald, 3,667,995.

Kaveggia, Frederick S., 3,632,513.

King, Julian P., Jr.; and Klimmek, Norman, 3,653,110.

Klinchuch, John F., 3,697,143.

Lee, Bert Leonard, 3,702,587.

Lee, Stuart M.; and Bailey, William A., 3,663,265.

Lee, Stuart M., 3,666,533.

Lewis, Joseph C., 3,670,397.

Lindahl, Charles B.; Schack, Carl J.; and Pilipovich, Donald, 3,701,630.

Mac Dowall, Kenneth R., 3,639,299.

Macken, John A., 3,644,016.

Manasevit, Harold M., 3,664,866.

Mann, Howard G., 3,654,001.

Marion, John P., 3,671,030.

Marshall, Claude J., 3,702,567.

Marshall, Claude J., 3,703,318.

Matovich, Edwin, 3,641,455.

Mc Coy, Lowell R.; and Heredy, Laszlo A., 3,663,298.

McAuliffe, Gerald K., 3,701,948.

McElwain, John C., 3,691,865.

McMenamy, Frederick; De More, Louis A.; and Del Mastro, Ludwig E., 3,671,835.

Mee, Jack E.; Heinz, David M.; Hamilton, Thomas N.; Besser, Paul J.; and Pulliam, George R., 3,645,787.

Mee, Jack E.; Heinz, David M.; Hamilton, Thomas N.; Besser, Paul J.; and Pulliam, George R., 3,645,788.

Michael, Harold J., 3,702,770.

Michael, Harold J., 3,706,579.

Middelkoop, James H.; and Bigelow, Edward J., 3,647,226.

Mihaila, John, 3,643,523.

Miller, Darrow L., 3,663,842.

Miller, Darrow L., 3,678,737.

Miller, Darrow L., 3,698,051.

Miller, Norman C., 3,664,880.

Molina, Orlando G., 3,671,183.

Molnar, Laszlo A., 3,700,784.

Morrison, Adrian O., 3,699,585.

Motley, David M.; and Salman, Naif D., 3,669,511.

Moyer, James D., 3,675,445.

Murray, George L., Jr., 3,670,486.

Nash, Michael T., 3,699,010.

Nehr, Charles W., 3,666,061.

Neisch, James C., 3,706,351.

Noar, Raymond; Tuffias, Robert H.; Gow, Kenneth P.; and Drew, Thomas A., 3,706,231.

O'Donnell, Cedric F.; Platzeck, Richard C.; and Sweeney, James S., 3,680,075.

Owens, John M.; and Sallee, Gary F., 3,665,211.

Owens, John M., 3,678,479.

Owens, John M., 3,693,177.

Owens, John M.; and Heinz, David M., 3,699,547.

Padgett, Clarence W.; and Polkinghorn, Robert W., 3,660,684.

Paul, William T., 3,643,517.

Paul, William T.; and Tracy, Wayne R., 3,698,181.

Pilipovich, Donald; and Warner, Michael G., 3,663,588.

Pilipovich, Donald; and Wilson, Richard D., 3,697,394.

Pilipovich, Donald, 3,707,413.

Powell, Charles Perry, 3,647,065.

Prem, Lawrence L., 3,705,317.

Recht, Howard L.; and Ghassemi, Masood, 3,692,671.

Reif, Robert B., 3,672,298.

Roberts, Roger G.; and Algeo, Jerry A., 3,698,008.

Robinson, John F., 3,670,462.

Rohrberg, Roderick, 3,649,805.

Roper, Daniel W., 3,670,594.

Rosen, Fred D., 3,703,641.

Rothschild, Bill F.; Seymour, Fredrick C.; and Thomas, Jon G., 3,653,997.

Rouse, William H., 3,700,984.

Rowland, Frederick T., 3,645,522.

Saunders, Richard C., 3,707,429.

Schack, Carl J.; and Wilson, Richard D., 3,649,222.

Schack, Carl J.; Pilipovich, Donald; and Wilson, Richard D., 3,694,172.

Shaheen, Joseph M.; and Simone, John, 3,641,520.

Shaheen, Joseph M.; and Simone, John, 3,657,807.

Shaheen, Joseph M.; and Simone, John, 3,662,358.

Shaheen, Joseph M.; and Simone, John, 3,668,776.

Shahlin, Joseph M.; and Simone, John, 3,698,081.

Shelton, Thomas M., 3,632,197.

Silvera, Isaac F.; and Vredevoe, Lawrence A., 3,693,104.

Singh, Jagmohan, 3,690,124.

Sinizer, David I.; Fanelli, Louis H.; Toy, Albert; and Atteridge, David G., 3,638,298.

Sinizer, David I.; Toy, Albert; Atteridge, David G.; and Fanelli, Louis H., 3,669,364.

Slater, John M.; and Wilcox, Doyle E., 3,691,850.

Slater, John M.; and Wilcox, Doyle E., 3,706,217.

Spence, John R., 3,699,539.

Stamm, Alex F., 3,631,585.

Stropki, George T., 3,656,168.

Tafel, Leonard I., 3,633,663.

Tafel, Leonard I., 3,641,933.

Tafel, Leonard I., 3,698,313.

Thompson, Robert B.; Thompson, Donald O.; Kraut, Edgar A.; and Lim, Teong C., 3,699,481.

Tindal, James A., 3,668,708.

Truthart Robert L., 3,649,105.

Turner, Edgar P., 3,702,145.

Ule, Louis A., 3,696,286.

Valstar, Jacob E., 3,680,086.

Velie, Wallace W.; and Scherer, Robert D., 3,637,336.

Waner, Donald W.; Litzell, John E.; and Olsen, Roger F., 3,640,155.

Watson, George A., 3,639,913.

Watson, George A., 3,699,459.

Wetch, Joseph R.; Sudar, Seymour; and Bienvenue, Louis L., 3,647,394.

Wiley, Carl A., 3,646,559.

Williams, John E., 3,698,265.

Yoshino, Stanley Y., 3,666,600.

Yoshino, Stanley Y., 3,703,422.

Young, Cecil G., 3,660,243.

Zeldman, Maurice I.; and Schechter, Edward G., 3,691,961.

North American Rockwell Corporation, mesne: *See—*
Anastasio, Frank J.; Brundage, Clinton F.; and Strakosch, Clarence P., 3,640,407.

Meyers, Kenneth Donald, 3,693,670.

Pugh, Carl Starnier, Jr.; and Curry, Robert Clay, 3,660,219.

Stamm, Alex F., 3,671,049.

North American Utility Construction Corporation: *See—*
Stark, Virgil; Wastie, Arthur E.; and Sliosberg, Jacques, 3,689,237.

North Atlantic Industries Inc.: *See—*
Bifulco, Harry P., Jr., 3,646,337.

North Central Manufacturing Corporation: *See—*
Munson, Donald J., 3,640,230.

North Dakota State University Memorial Foundation: *See—*
Rheinbeck, Alfred E.; Nielsen, Paul L.; and Khoe, Teng H., 3,676,384.

North, Donald Edward. Spread applicator. 3,650,241, 3-21-72, Cl. 118-2.

North, Donald F., Jr.; Thomas, Jerry D.; and Worth, Gerald W., to Republic Steel Corporation. Methods of producing leaded steel. 3,671,224, 6-20-72, Cl. 75-129,000.

North Electric Company: *See—*

Albert, Guy D., 3,668,605.

Blake, Richard K.; and Jotwani, Haresh C., 3,665,112.

Blake, Richard K.; De Hilster, Robert J.; and Porter, Warren Wesley, 3,665,113.

Burns, James H., 3,683,208.

Callender, Jack E.; Halbedel, Don Edward; Bagwell, Benjamin J.; Horning, James Leroy; Lissakers, Erik Axel; Long, Joseph Harold; and Schweitzer, Cameron C., 3,702,381.

Dooley, Gerald F., 3,652,800.

Patterson, Albert D., 3,704,361.

Porter, Warren Wesley, 3,653,005.

North, Howard C. Process and apparatus for forming tubular thermoplastic film. 3,685,576, 8-22-72, Cl. 165-47,000.

North, Howard C.; and Williamson, Charles W., to Esso Research and Engineering Company. Mandrel for extruded thermoplastic film. 3,702,224, 11-7-72, Cl. 425-71,000.

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North, Norman Frederick: *See—*

Kahn, Peter Burno; and North, Norman Frederick, 3,662,544.

North Pacific Cannery & Packers, Inc.: *See—*

Fitz, William F., 3,707,384.

North, William D.: *See—*

Castrucci, Paul P.; Gates, Harlan R.; Henle, Robert A.; Pricer, Wilbur David; Morton, Robert M.; Mason, John W.; and North, William D., 3,641,516.

Castrucci, Paul P.; Grochowski, Edward G.; North, William D.; and Palfi, Thomas L., 3,648,130.

North, William L., to Forenta, Limited. Steam-air garment press. 3,654,714, 4-11-72, Cl. 38-16.

North, William L.; and Beckett, William J., to Forenta, Limited. Control system for garment finishing apparatus. 3,679,106, 7-25-72, Cl. 223-73,000.

Northan, Barbara J.; and Boies, David B., to United States of America, Navy, mesne. Water displacing corrosion preventive. 3,642,653, 2-15-72, Cl. 252-389.

Northcraft, Ray V. Differential drive mechanism for vehicles. 3,645,153, 2-29-72, Cl. 74-700.

Northeast Burn-Zel Corporation: *See—*

Spencer, Paul W., 3,682,116.

Northeast Electronics Corporation: *See—*

Boatwright, John T.; and Knight, Donald L., 3,663,769.

Boatwright, John T., 3,691,473.

Northeast Shoe Company: *See—*

Lown, Milton, 3,705,463.

Northern Electric Company: *See—*

Crowley, George C., 3,649,813.

Crowley, George C., 3,673,380.

Crowley, George C.; and Carlson, Gordon S., 3,673,381.

De Napoli, Robert A., 3,666,915.

Northern Electric Company Limited: *See—*

Bastikar, Arvid Ramkrishnara, 3,673,522.

Bee, James William Moore, 3,691,319.

Bhatt, Jayantkumar; Mlacak, John George; and Winlow, Thomas Arthur, 3,662,117.

Braim, David H., 3,663,359.

Bryden, Brian Richard, 3,699,361.

Campbell, David; and Chamberland, Real Oscar, 3,668,355.

Chulak, William, 3,674,947.

Chulak, William, 3,700,823.

Colton, Douglas Roy; and Krieger, Rudolph John, 3,692,571.

Demirdjoghlu, Sayman Fadil; and Van Dyk, Robert Maarten, 3,668,698.

Dopheide, Otto Walter, 3,671,759.

Eisele, Werner Frank; and Zimmermann, Detlef, 3,701,835.

Harmgardt, Hans-Lothar, 3,699,468.

Hopwood-Jones, Charles Douglas, 3,675,755.

Ingre, Sidney Ivor Joseph, 3,701,115.

Iyengar, Rama, 3,634,606.

Jezioranski, Joseph S.; Kenedi, Robert; and Gagnier, Real, 3,636,263.

Keusch, Andre, 3,635,110.

Kilpatrick, James McKinnon; and Kuhfus, Gerd, 3,644,686.

Kluge, Werner Erich, 3,699,545.

Lemieux, Roger Joseph, 3,681,510.

Livermore, Frederick C.; and Neathway, Graham Albert, 3,674,659.

Lougheed, James H., 3,673,391.

Madsen, Henning Schmidt; and Reddy, Cornelis Wilfred, 3,663,768.

Main, Henry Allan; and Thompson, Joseph, 3,699,259.

Miller, Hugh L., 3,671,366.

Peterson, Olav, 3,663,900.

Rutulius, Uldis; and Layton, Edward Stowe, 3,646,463.

Spencer, John Gordon, 3,701,955.

Stefaniszyn, John Joseph, 3,661,335.

Tumilty, Thomas George, 3,696,482.

van der Puije, Patrick David, 3,647,982.

Warner, Wesley John, 3,668,331.

Warner, Wesley John, 3,670,110.

Wu, Chuang-Jy; Roth, John Andrew; and Shankowski, Allison Eugene, 3,653,055.

Zimmermann, Detlef; Campbell, David; and De Bortoli, George, 3,673,314.

Northern Engraving Company: *See—*

Carlson, Clarence A., 3,699,018.

Northern Fibre Products Company: *See—*

Ambrose, Jere B., 3,665,880.

Ambrose, Jere B., 3,671,984.

Ambrose, Jere B., 3,689,946.

Ambrose, Jere B., 3,696,771.

Northern Illinois Gas Company: *See—*

Batz, James E., 3,705,385.

Dufour, Raymond J.; and Grimm, James J., 3,678,560.

Dufour, Raymond J.; and Grimm, James J., 3,700,265.

Northern Natural Gas Company: *See—*

Frantzen, Karl H., 3,631,752.

Hirt, Thomas J.; Kissinger, Richard D.; Kendall, John P.; and Frantzen, Karl H., 3,707,644.

Northern Petrochemical Company: *See—*

Sanders, Herbert L.; Swenson, Robert A.; and Braunwarth, John B., 3,653,183.

Northern Research and Engineering Corporation: *See—*

Heitmann, Arnold M.; and Chambers, Robert O., 3,658,442.

Northern Technical Services, Inc.: *See—*

Jones, Keith W., 3,707,076.

Northeved, Allan: *See—*

Knudsen, Erik Stenberg; Iversen, Svend Erik; Lund, Svend Age; and Northeved, Allan, 3,671,858.

Northrop Carolina, Inc.: *See—*

Morgan, Bert B.; and Schroeder, George F., 3,690,578.

Porter, William D., 3,690,530.

Porter, William D.; and Taylor, Larry H., 3,690,579.

Schroeder, George F., 3,690,576.

Schroeder, George F., 3,690,577.

Taylor, Larry H.; Porter, William D.; Anderson, William J.; and Caneer, Ralph A., 3,697,007.

Northrop Corporation: *See—*

Alexander, Newton C.; Stark, Herbert; and Thornton, Richard C., 3,670,585.

Bhaumik, Mani L.; and Mann, Michael M., 3,643,175.

Bingham, Ronald H.; and Canavan, Edmond J., 3,683,230.

Fairbank, Winthrop H., 3,653,732.

Goede, Walter F.; Gunther, John E.; and Noda, Takeshi, 3,646,382.

Goede, Walter F., 3,701,923.

Honzik, Richard A., 3,701,922.

Jeffries, Lester A., 3,671,795.

Kenney, David A., 3,638,159.

Kuipers, Jack, 3,660,648.

Landrum, Bobby L., 3,678,330.

Malm, Robert E., 3,671,871.

McCarthy, James W.; and Opferman, Thomas F., 3,649,949.

Miles, Edwin R.; and Dreier, Donald E., 3,640,132.

Oates, Charles E., 3,665,835.

Oster, Stanley; Higashi, Herbert I.; and Dörner, Otto, 3,681,758.

Reis, James John, 3,705,516.

Rennick, Lyle V., 3,681,700.

Requa, Stanley C., 3,639,806.

Stalony-Dobrzanski, Janusz A., 3,653,975.

Star, Moe, 3,640,492.

Vahlstrom, Richard E.; Nutten, Donald C.; and Bayne, Dennis R., 3,675,047.

Wells, Robert R., 3,675,311.

Northrop, George: *See—*

Braun, Samuel; Witkoff, Robert; and Northrop, George, 3,650,382.

Northrop, Harley E.: *See—*

Brumagin, Thomas H.; Dickson, John M.; Northrop, Harley E.; Campbell, Lynn W.; Brown, Stanley H.; and Friesz, Elmo W., 3,689,049.

Northrop, John H.: *See—*

La Branche, Harvey W.; and Northrop, John H., 3,694,660.

Northrop Weaving Machinery Limited: *See—*

Atkinson, Cyril Millward, 3,677,306.

Northrup, Hal J. Primer for cured silicone release agents. 3,691,206, 9-12-72, Cl. 260-348,50c.

Northrup, Malcolm B., to Collins Radio Company. Sealed magnetic tape cassette apparatus. 3,692,956, 9-19-72, Cl. 179-100,20z.

Northrup, Richard M.: *See—*

Johanson, Philip M.; Dudevior, Wilfried G.; and Northrup, Richard M., 3,704,070.

Northsea, George A., to National Gypsum Company. Board handling apparatus. 3,701,408, 10-31-72, Cl. 198-32.

Northup, Francis B.: *See—*

Peel, Robert; and Northup, Francis B., 3,698,173.

Northup, Francis B. Winding machine. 3,637,154, 1-25-72, Cl. 242-56.

Northwestern Golf Company: *See—*

Rosasco, Nate, Jr., 3,706,453.

Northwestern Steel and Wire Company: *See—*

Robinson, Charles G., 3,645,321.

Norton Abrasives Limited: *See—*

Teague, Ernest Douglas, 3,673,293.

Norton, Allyn S., Jr., to General Electric Company. Shape control sensor for cold rolling mills. 3,693,427, 9-26-72, Cl. 73-144,000.

Norton, Calhoun, to Arens Controls, Inc. Electrical steering system for boats. 3,651,779, 3-28-72, Cl. 115-35.

Norton, Charles J.; and Diehl, Byron C., to Marathon Oil Company. Allene polymerization and derivatives. 3,639,369, 2-1-72, Cl. 260-88.2.

Norton, Charles J.; and Diehl, Byron C., to Marathon Oil Company. Preparation of enol esters from alkenes. 3,655,736, 4-11-72, Cl. 260-497.

Norton, Charles J.; and Falk, David O., to Marathon Oil Company. Oil recovery method using dispersion of clays in aqueous polyacrylamide solutions. 3,670,820, 6-20-72, Cl. 166-305,00r.

Norton, Charles J.; and Falk, David O., to Marathon Oil Company. Polyacrylamide-polyalkene oxide mobility control process. 3,684,014, 8-15-72, Cl. 166-275,000.

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Norton, Clyde J., to Astro-Science Corporation. Pulse acquisition system for transforming received short duration data pulses into pulses of the same amplitude but if a longer duration. 3,659,211, 4-25-72, Cl. 328-151.

Norton Company: *See—*

Alexander, Donald K., 3,690,568.

Alliegro, Richard A.; and Learned, Addison W., III, 3,683,828.

Alliegro, Richard A., 3,705,714.

Aronson, Arnold J., 3,657,506.

Bartlett, Howard J., 3,649,342.

Bersano, Piero, 3,638,868.

Bratt, Richard L., 3,703,019.

Briggs, Walton E., 3,690,151.

Chippawa, John Bell, 3,702,369.

Christian, Warren E., 3,670,463.

Clough, Philip J.; and Eisner, Steve, 3,632,406.

Coes, Loring, Jr., 3,660,949.

Cook, Arnold M., 3,647,147.

Crellin, Terry M., 3,642,594.

Eberts, Robert E., 3,653,850.

Eberts, Robert E., 3,692,087.

Eisner, Steve, 3,699,014.

Eisner, Steve, 3,699,017.

Eisner, Steve, 3,706,650.

Fine, Richard A., 3,702,593.

Fournier, Roger H., 3,658,190.

Gamache, Norman M., 3,638,366.

Guinan, Joseph C., 3,671,364.

Hildebrand, Hans, 3,643,387.

Hill Oiva E., 3,681,878.

Kiovsky, Joseph R.; and Bart, Ronald K., 3,641,095.

Malloy, John F.; and Seiler, Charles J., 3,637,359.

Malloy, John F.; Curry, Nolan A.; and Olton, Dirck J., 3,665,660.

Marshall, Douglas Woodworth; and Pett, Edgar A., 3,646,713.

Sioui, Richard H.; and Cohen, Harvey M., 3,664,819.

Washburn, Malcolm E., 3,639,101.

Washburn, Malcolm E., 3,679,444.

Wespi, George E., 3,701,220.

Wisdon, Norvell E., Jr., 3,699,015.

Zimmer, William F., Jr.; and Chew, Harvey L., 3,653,859.

Zimmer, William F., Jr.; and Chew, Harvey L., 3,701,703.

Norton Company, mesne: *See—*

MacKay, Joseph H., Jr., 3,667,169.

MacKay, Joseph H., Jr., 3,667,170.

Norton Company of Canada: *See—*

Alexander, Donald K., 3,690,568.

Norton Company, The: *See—*

Hnilicka, Milo P., Jr., 3,657,846.

Siddall, Don F.; and Hoffman, Vincent L., 3,661,120.

Norton, David J.: *See—*

David, Vivian; and Norton, David J., 3,643,025.

Norton, Douglas Edwin: *See—*

Norton, Hubert Veare; Norton, Leslie Buckingham; and Norton, Douglas Edwin, 3,692,049.

Norton, Harry William: *See—*

Griffith, Willard Denis; and Norton, Harry William, 3,636,970.

Norton, Hubert Veare; Norton, Leslie Buckingham; and Norton, Douglas Edwin, to Norton Tool Company, Limited. Control apparatus for hydraulic equipment. 3,692,049, 9-19-72, Cl. 137-489,500.

Norton, Leslie Buckingham: *See—*

Norton, Hubert Veare; Norton, Leslie Buckingham; and Norton, Douglas Edwin, 3,692,049.

Norton, Leslie K., to Monsanto Enviro-Chem Systems, Inc. Mercury cathode electrolytic cells employing improved cathode support. 3,689,397, 9-5-72, Cl. 204-219,000.

Norton, Neil C. Method of preventing vapor lock during engine operation and of fuel leakage to carburetor after engine stoppage. 3,674,043, 7-4-72, Cl. 137-12,000.

Norton, Orien K. Seal for disposable media filter apparatus. 3,704,787, 12-5-72, Cl. 210-387,000.

Norton, Patrick H.: *See—*

Barton, James; and Norton, Patrick H., 3,637,062.

Norton, Randolph: *See—*

Paciorek, Walter J.; and Norton, Randolph, 3,685,734.

Norton Research Corporation: *See—*

Kamath, G. Sanjiv, 3,649,384.

Kamath, G. Sanjiv, 3,663,722.

Norton, Robert K.: *See—*

Kacmarcik, Thomas J.; and Norton, Robert K., 3,667,663.

Norton, Robert K., to Harris-Intertype Corporation. Carton handling mechanism. 3,658,220, 4-25-72, Cl. 225-2.

Norton, Robert K., to Harris-Intertype Corporation. Gate mechanism for processing a stream of articles. 3,667,753, 6-6-72, Cl. 271-64,000.

Norton, Thomas R., to Global Marine Inc. Steering sub for underwater drilling apparatus. 3,647,007, 3-7-72, Cl. 175-5.

Norton, Thomas W.: *See—*

Smith, William M.; Norton, Thomas W.; and Hawley, John D., 3,661,085.

Norton, Thomas W., to Ensign-Bickford Company, The. Self-contained passenger restraining system. 3,663,035, 5-16-72, Cl. 280-150.

Norton Tool Company, Limited: *See—*

Norton, Hubert Veare; Norton, Leslie Buckingham; and Norton, Douglas Edwin, 3,692,049.

Norton-Norwich Products, Inc.: *See—*

Berman, Harold, 3,661,934.

Nortron, Inc.: *See—*

Moss, James R., 3,704,667.

Norwegian Defence Research Establishment: *See—*

Barstad, Gotfred E. B., 3,665,198.

Norwich, Alan, to Industrial Nucleonics Corporation. Standardization of dielectric materials gauges having capacitive probes with remotely-controlled balancing circuits using varactors. 3,646,434, 2-29-72, Cl. 324-61.

Norwich Pharmacal Company, The: *See—*

Alaimo, Robert J., 3,646,034.

Harris, Nicholas D., 3,651,096.

Hayes, Kenyon Joseph, 3,634,448.

Johnson, Roland N., 3,660,384.

Norwood, David W.: *See—*

Arnett, Joseph W., Jr.; and Norwood, David W., 3,696,184.

Norwood, Donald D.; and Marwil, Stanley J., to Phillips Petroleum Company. Production of high fluff bulk density particle-form polyethylenes. 3,644,323, 2-22-72, Cl. 260-94.9.

Norwood, Richard E., to International Business Machines Corporation. Separation control for record media transducer with transverse slots to supply ambient pressure. 3,643,037, 2-15-72, Cl. 179-100,2.

Norwood, Robert E.: *See—*

Kay, James W.; and Norwood, Robert E., 3,660,407.

Norz, Richard: *See—*

Nuber, Otto; and Norz, Richard, 3,646,779.

Nosaka, Kunishi: *See—*

Muratani, Takuro; Ogawa, Akira; and Nosaka, Kunishi, 3,676,593.

Nosal, Vsevolod Vladimirovich: *See—*

Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolievich, 3,670,549.

Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolievich, 3,673,840.

Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolievich, 3,680,345.

Nosch, Edwin: *See—*

Arndt, Heinz-Herbert; and Nosch, Edwin, 3,704,987.

Nosco Plastics, Incorporated: *See—*

Cloyd, Harold S., 3,659,602.

Cloyd, Harold S., 3,691,965.

Mangold, Robert T., 3,636,889.

Mangold, Robert T., 3,683,821.

Nose, Takashi: *See—*

Yoneda, Naoto; Ishihara, Teruo; Kobayashi, Tetsuji; Kondo, Yasuzo; Okumura, Kentaro; Kojima, Michio; and Nose, Takashi, 3,673,195.

Noser, Renato: *See—*

Merhof, Wilfried; and Noser, Renato, 3,667,014.

Noshay, Allen: *See—*

Matzner, Markus; Noshay, Allen; and Barclay, Robert, Jr., 3,701,815.

Nosler, Heinz Gunter: *See—*

- Wessendorf, Richard; Nosler, Heinz Gunter; and Bellinger, Horst, 3,639,444.
- Nosler, Heinz Gunter; Wessendorf, Richard; and Bellinger, Horst, to Henkel & Cie G.m.b.H. Antimicrobial washing agents, washing adjuvants and cleaning agents. 3,668,135, 6-6-72, Cl. 252-107.000.
- Nosler, Heinz Gunter; and Schnegelberger, Harald, to Henkel & Cie G.m.b.H. Synergistic antibacterial and antifungal compositions of DMSO, ethanol or methanol and diester of 2,2,4-trimethylpentanediol-1,3, 3,671,654, 6-20-72, Cl. 424-312.000.
- Nosochenko, Oleg Vasilievich: See—
- Rutes, Viktor Savelievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballard, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, Anatoly Ivanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosochenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.
- Nospil Limited: See—
- Fitzgerald, Leonard C., 3,635,380.
- Nostrand, William G.; and Nelson, Clifford G., to Nefco Filter Corporation. Air cleaner. 3,680,286, 8-1-72, Cl. 55-484.00.
- Notani, Masaaki; Ashibe, Makoto; Nishitani, Yasuo; and Mirara, Keizito, to Matsushita Electric Industrial Co., Ltd. Magnetic recording and reproducing apparatus. 3,636,253, 1-18-72, Cl. 178-6.6.
- Notarianni, Aurelio Filippo, to SPA-Societa Prodotti Antibiotici S.p.A. Alkaloid salts of 6-phosphogluconic acid. 3,632,585, 1-4-72, Cl. 260-253.
- Notarianni, Aurelio Filippo; and Ghielmetti, Giuseppe, to SPA-Societa Prodotti Antibiotici S.p.A. Pharmaceutical compositions containing 6-phosphogluconic acid and salts thereof. 3,639,594, 2-1-72, Cl. 424-224.
- Notarius, Harold, to RCA Corporation. Dark fosterite ceramic composition. 3,649,309, 3-14-72, Cl. 106-39.
- Notaro, Frank, to Union Carbide Corporation. Semirigid multilayer thermal insulation and method of making same. 3,647,606, 3-7-72, Cl. 161-52.
- Notaro, Vincent A.; and Selwitz, Charles M., to Gulf Research & Development Company. Process for preparing halogenated aromatics. 3,636,170, 1-18-72, Cl. 260-650.
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- Notaro, Vincent A.; Selwitz, Charles M.; and Walsh, William L., to Gulf Research & Development Company. Process for separating meta xylene from para xylene. 3,644,552, 2-22-72, Cl. 260-674.
- Notelteirs, Victor Rosalie, to U.S. Philips Corporation. Electric incandescent lamp with an improved pinch seal. 3,673,454, 6-27-72, Cl. 313-332.000.
- Notelteirs, Victor Rosalie; and Janssen, Eduard Josef Philomena, to U.S. Philips Corporation. Filament support for tubular lamp. 3,678,319, 7-18-72, Cl. 313-271.000.
- Notenboom, Leo J. Hydraulic lift mechanism. 3,653,302, 4-4-72, Cl. 92-53.
- Nothacker, Siegfried, to Gebr. Happich G.m.b.H. Safety seat for children. 3,659,865, 5-2-72, Cl. 280-7.1.
- Nothmann, Gerhard A.: See—
- Florsheim, Leonard S., Jr.; Lieberman, David A.; Archer, Harold B.; and Nothmann, Gerhard A., 3,640,623.
- Nothmann, Gerhard A., to Robertson Photo-Mechanix, Inc. Equilibrated copyboard. 3,679,308, 7-25-72, Cl. 355-75.000.
- Nothmann, Gerhard A.; Sippel, Charles P., Jr.; and Bartky, Walter Scott, to Robertson Photo-Mechanix, Inc. Automatic roll film camera. 3,689,150, 9-5-72, Cl. 355-64.000.
- Nothnagle, Paul E., to Bausch & Lomb Incorporated. Darkfield convertible substage mirror. 3,650,597, 3-21-72, Cl. 350-87.
- Nothnagle, Paul E.; and Rosenberger, Harold E., to Bausch & Lomb Incorporated. Substage illuminating mirror for a stereomicroscope. 3,687,520, 8-29-72, Cl. 350-87.000.
- Nothum, Andrew; Thomas, Billy W.; and White, Abram L., to Grover Machine Company. Tube bending machine. 3,670,553, 6-20-72, Cl. 72-307.000.
- Notko, Michael F., to Druth Packaging Corporation. Fiber board chair. 3,695,703, 10-3-72, Cl. 297-442.000.
- Notley, John Michael; and Barr, James, to International Nickel Company, Inc. The Electrodeposition of osmium and baths therefor. 3,692,642, 9-19-72, Cl. 204-47.000.
- Notley, Norman T.; and Senentz, Irwin M., Jr., to Kalvar Corporation. Photographic materials. 3,653,902, 4-4-72, Cl. 96-49.
- Notley, Norman T. Interfacial vesicular print materials and methods of preparation. 3,661,589, 5-9-72, Cl. 96-91.000.
- Notley, Norman T., to Bell & Howell Company. Magnetic imaging methods and apparatus. 3,707,001, 12-19-72, Cl. 346-74.000.
- Noto, Takao: See—
- Kono, Toyoo; Wada, Sakae; Shiba, Motoharu; Matsuno, Takashi; Yamamoto, Akihiro; Ogawa, Haruki; Okazaki, Hiroshi; Suzuki, Shigeo; and Noto, Takao, 3,632,746.
- Noto, Tetsuo: See—
- Goto, Masahiro; Noto, Tetsuo; Kato, Nitsuya; Kimura, Morio; and Watanabe, Tadashi, 3,684,752.
- Ishii, Keiichi; Ueyama, Michio; Miyazaki, Koshin; and Noto, Tetsuo, 3,677,777.
- Notomi, Ryota: See—
- Kanoh, Teruchika; and Notomi, Ryota, 3,655,846.
- Matsugu, Tomoyuki; Notomi, Ryota; and Kanoh, Teruchika, 3,678,546.
- Nott, Robert Edward; and Lander, David Robin, to Imperial Chemical Industries Limited. Method for flow rate control. 3,706,827, 12-19-72, Cl. 264-176.000.
- Notter, Eugen: See—
- Eggemuller, Alfred; Scherer, Lorenz; Notter, Eugen; Bellan, Heinrich; and Wagner, Werner, 3,687,061.
- Nottingham, J. B., & Co., Inc.: See—
- Savoca, Paul C.; and Marasco, Anthony D., 3,641,478.
- Savoca, Paul C.; and Marasco, Anthony D., 3,688,244.
- Notto Boschi Co., Ltd.: See—
- Miyamichi, Kazuo, 3,661,616.
- Notz, Karl: See—
- Becker, Ernst; and Notz, Karl, 3,672,316.
- Notzel, Gerhard. Forms for casting concrete. 3,689,024, 9-5-72, Cl. 249-189.000.
- Nouar Corporation: See—
- Bennett, William Coffey; and Stastny, Edwin O., 3,690,590.
- Noumi, Kazunobu: See—
- Sugimoto, Yoshitaka; Sannomiya, Isao; and Noumi, Kazunobu, 3,677,694.
- Noumi, Makoto: See—
- Seki, Susumu; Noumi, Makoto; and Takaoka, Tadashi, 3,679,879.
- Nouveau, Henry, to Doitau Produits Metallurgie Societe a Responsabilite Limitee. Linings for ingot molds and foundry molds. 3,660,135, 5-2-72, Cl. 117-5.1.
- Nouvel, Jacques, to Rhone-Poulenc S.A. Process for the hydrogenation of cycloalkane hydroperoxides. 3,694,511, 9-26-72, Cl. 260-586.000.
- Nova, Antonio; Nova, Oscar; and Nova, Renzo, to Officine Meccaniche Antonio Nova. Apparatus for making shoes. 3,669,590, 6-13-72, Cl. 425-119.
- Nova, Oscar: See—
- Nova, Antonio; Nova, Oscar; and Nova, Renzo, 3,669,590.
- Nova, Renzo: See—
- Nova, Antonio; Nova, Oscar; and Nova, Renzo, 3,669,590.
- Novack, Robert L.; Moulton, David M.; and Juda, Walter, to Prototech Company. Method of operating fuel cell. 3,669,752, 6-13-72, Cl. 136-86.000.
- Novack, Robert Lee: See—
- Allen, Robert J.; and Novack, Robert Lee, 3,640,773.
- Novack, Robert M., to Warner-Lambert Company. Process for producing substituted cyclohexene compounds. 3,649,628, 3-14-72, Cl. 260-247.2.
- Novack, Robert M., to Warner-Lambert Company. N-phthalimidoacetyl-5-chloro-2-cyclopropyl-methylaminobenzhydrol. 3,649,643, 3-14-72, Cl. 260-326.
- Novack, Robert M., to Warner-Lambert Company. Process for obtaining 3-trans-dimethylamino 4-phenyl-4-trans-carbethoxy-Δ¹-cyclohexene. 3,679,732, 7-25-72, Cl. 260-471.00a.
- Novajovsky, William A.; and Hoelscher, Max W., to United States of America, Atomic Energy Commission. Radio-frequency window assembly having shielded solder joints and reweldable replacement flanges. 3,701,061, 10-24-72, Cl. 333-98.00p.
- Novak, David M.; and Brown, Robert E. Fuel burning table lamp. 3,697,739, 10-10-72, Cl. 240-17.000.
- Novak, Howard L.: See—
- Coleman, William H.; Quinn, Robert C.; Novak, Howard L.; Kalbach, Jack J.; and Jones, Seward L., 3,658,438.
- Novak, James F.: See—
- Kuhlow, Herbert F.; Novak, James F.; and Henley, John F., 3,637,938.
- Novak, John P., to Inland Steel Company. Method of treating an alloy steel for enameling. 3,668,022, 6-6-72, Cl. 148-16.000.
- Novak, Joseph F. Method and apparatus for converting monochrome pictures to multi-color pictures electronically. 3,706,841, 12-19-72, Cl. 178-5.40r.
- Novak, Michael A.: See—
- Beno, Emil V.; and Novak, Michael A., 3,704,470.
- Novak, Michael J., to Hart Schaffner & Marx. Method of garment manufacture. 3,663,964, 5-23-72, Cl. 2-243.
- Novak, Opal B. Furnace register humidifier. 3,673,770, 7-4-72, Cl. 55-234.000.
- Novak, Phillip J. Hollow sphere and structural elements for constructing same. 3,691,704, 9-19-72, Cl. 52-80.000.
- Novak, Raymond F.: See—
- Ramspeck, Howard B.; and Novak, Raymond F., 3,677,457.
- Novak, Raymond F., to Fastener Corporation. Fastener driving tool. 3,638,532, 2-1-72, Cl. 91-220.
- Novak, Richard A. Filtration apparatus. 3,655,058, 4-11-72, Cl. 210-360.
- Novak, Ronald D.; and Petersen, Paul S., to Toolmark Co. Cutter arbor. 3,691,900, 9-19-72, Cl. 90-11.00a.

- Novak, Ronald L., to Sprague Devices, Inc. Windshield washer unit. 3,633,827, 11-1-72, Cl. 239-284.
- Novak, Steve. Bandage roll-up packaging device. 3,664,594, 5-23-72, Cl. 242-60.000.
- Novak, Thaddeus J.; and Poziomek, Edward J., to United States of America, Army. Detector composition and method. 3,642,449, 2-15-72, Cl. 23-232.
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- Condon, David C.; and Nichols, Andrew J., 3,678,462.
- Smith, Roland T., 3,647,042.
- Novatek, Inc.: See—
- Spaulding, David B., 3,668,624.
- Novatron, Inc.: See—
- Pedersen, Daryl R.; and White, Charles E., 3,631,921.
- Novek, Joseph F.: See—
- Neward, George A.; and Novek, Joseph F., 3,689,729.
- Novella, Vladimir Nikolaevich: See—
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- Novello, Frederick C.: See—
- Baldwin, John J.; and Novello, Frederick C., 3,691,178.
- Novelty Tool Co., Inc.: See—
- Grise, Frederick G. J., 3,635,607.
- November, Daniel: See—
- Stehl, George; and November, Daniel, 3,688,415.
- Noveroske, Robert L.: See—
- Goring, Cleve A.; and Noveroske, Robert L., 3,632,755.
- Novet, Hanspeter: See—
- Zurbuchen, Louis; and Novet, Hanspeter, 3,687,003.
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- Everingham, Brice A.; and Novick, Alvina M., 3,633,939.
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- Berkowitz, Lawrence; Novickis, Georgs; and Sheth, Prafulchandra N., 3,643,797.
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- Aunstrup, Knud; Andresen, Otto; and Outtrup, Helle, 3,674,643.
- Aunstrup, Knud, 3,677,902.
- Borrevang, Pou; and Faarup, Peter, 3,673,224.
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- Ulyanitsky, Evgeny Mefodievich; and Podgorny, Eduard Vasilievich, 3,679,937.
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- Novotny, Charles J.: See—
- Zievers, James F.; and Novotny, Charles J., 3,681,210.
- Novotny, John E.: See—
- United States of America, National Aeronautics and Space Administration, 3,670,202.
- Novotny, Josef: See—
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- Johnson, Marvin M.; Tabler, Donald C.; and Nowack, Gerhard P., 3,697,448.
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- Schorre, Gustav; Nowak, Herbert; and Saiko, Otto, 3,658,825.
- Nowak, John S.: See—
- Downing, Randall W.; Nowak, John S.; Taylor, Frank F.; and Ulrich, Werner, 3,651,480.
- Nowak, Ralph M.: See—
- McDonald, Quentin H.; Panizzi, Richard L.; Casavant, Roger M.; and Nowak, Ralph M., 3,649,074.
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- Dolinski, Richard J.; De Vrieze, Jerry D.; and Nowak, Robert M., 3,649,668.
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Brown, Robert O.; Noyes, Edwin G., Jr.; and Conrad, Joseph D., Jr., 3,665,964.
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Tooka, Takuzo; Nozaki, Choji; and Kono, Kiichi, 3,704,579.
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Hasegawa, Kazuaki; and Nozaki, Kanzo, 3,631,577.
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- Nozaki, Masanori: See—
Tsuda, Shozo; and Nozaki, Masanori, 3,663,111.
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Taima, Susumu; and Nozaki, Saiji, 3,646,163.
- Nozaki, Tadashi: See—
Sakamoto, Junzo; Nozaki, Tadashi; Tsuji, Yoshifumi; and Shimada, Masaharu, 3,672,561.
- Nozato, Fujio: See—
Shinagawa, Gentaro; and Nozato, Fujio, 3,633,571.
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Iida, Yozo; and Nozawa, Hideyo, 3,695,551.
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- Nozoe, Tetsuo: See—
Sato, Akio; Sonoda, Minoru; Shiba, Keisuke; Hinata, Masanao; and Nozoe, Tetsuo, 3,687,674.
- NRM Corporation: See—
Cantarutti, Armando, 3,692,605.
- Christy, Raymond L.; and Uhlenhaut, Paul D., 3,632,279.
- Gazuit, Georges, 3,647,598.
- Gazuit, Georges, 3,674,604.
- Herbener, Albert, 3,632,272.
- Laenen, Nicholas M.; and Cooper, James M., 3,640,653.
- NSM Apparatebau GmbH: See—
Menke, Wilhelm, 3,662,344.
- NSU Motorenwerke Aktiengesellschaft: See—
Stephan, Gerhard; Harst, Heinz; Laux, Gunter; and Kappes, Alfred, 3,640,799.
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Marx, George M., 3,700,887.
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Lester, William C.; Nuccio, Carlo; and Ward, Ernest S., 3,652,444.
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Green, Edgar E.; and Nuckols, Phillip H., 3,669,195.
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Glasser, Herman, 3,673,411.
- Haskins, Arlie W., 3,706,689.
- Manning, Bernard; and Nelson, Sigurd E., 3,705,985.
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Abkowitz, Stanley; Sieregij, John M.; and Regan, Ronald D., 3,681,037.
- Nuclear Fuel Services, Inc.: See—
Gammill, Adrian Monroe; Guinn, Franklin Keith; Bird, Urban S.; and Housholder, William R., 3,667,423.
- Nuclear Materials and Equipment Corporation: See—
Purdy, David L., 3,649,367.
- Weis, Arthur Martin, 3,638,051.
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Pettinger, Donald Stanley, 3,632,472.
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- Thompson, John; and Vaughan, Roger Davison, 3,663,364.
- Yellowless, John Mackinlay, 3,698,363.
- Nuclear Waste Systems Company, mesne: See—
Mertens, Johann, 3,667,715.
- Nuclear-Chicago Corporation: See—
Clark, Gene E., 3,691,545.
- Lucchesi, Oreste J., 3,655,974.
- Morgan, Ira Lon; and Rhodes, John R., 3,697,752.
- Muehlechner, Gerd, 3,683,185.
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- Neathery, John L., Jr., 3,656,000.
- Oesterlin, Donald L., 3,633,201.
- Walker, William G., 3,668,395.
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Eisenbraut, Anna M., 3,666,854.
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Pommer, Horst; Seid, Bernhard; Nuerrenbach, Axel; Klotmann, Georg; and Grassner, Hans, 3,681,466.
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- Vollrath, Robert; Nuerrenbach, Axel; and Adolphi, Heinrich, 3,673,215.
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Newallis, Peter E.; Nufer, Hans L.; and Chupp, John P., 3,691,276.
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Martin, Henry Woods, 3,647,084.
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Ishitani, Akira; and Nukada, Kenkichi, 3,658,534.
- NUKEM, Nuklear-Chemie: See—
Krauth, Axel; and Teiwes, Hans-Jürgen, 3,668,292.
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Ploger, Fritz; and Vietzke, Horst, 3,676,075.
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Roepenack, Horst; Nowak, Dieter; and Ploger, Fritz, 3,676,030.

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Landrum, Porter, 3,707,278.
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Yamagishi, Kazuo; Kageyama, Osamu; and Numa, Yoshiaki, 3,654,094.
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Ejiri, Masakazu; Kamoi, Akira; Numakura, Toshio; Isoda, Kenichi; and Mori, Ryutaro, 3,634,689.
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Morii, Eiji; Numasawa, Tadasuke; Iwata, Kouichi; Yamagata, Shiochi; Ishimori, Akira; and Hanai, Hiromi, 3,637,657.
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Sagawa, Seiji; Kunihiro, Haruo; Kimura, Osamu; Numata, Kenichiro; and Inoue, Masatoshi, 3,686,132.
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Idei, Gijun; and Numata, Saburo, 3,670,184.
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McGeachy, Donald E., 3,661,168.
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Turley, Robert R.; Castor, William M.; and Nunnally, Kenneth R., 3,703,593.
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Haddick, Roy D.; Purewal, Karmjit; and Vickers, Fenwick, 3,661,885.
- Nupar Manufacturing Co., Inc.: See—
Richards, Joe M., 3,662,737.
- Nupla Corporation: See—
Davis, Elbert, 3,660,887.
- Nupnau, Arthur E.: See—
Thomsen, Jack W.; Nupnau, Arthur E.; Kim, Raymond W. H.; Cherniavskyj, Jaroslav; and Iha, Kiyoshi, 3,635,548.
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Shufflebarger, Earl D.; Danko, Oliver L.; and Medvick, Richard J., 3,656,709.
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Muellner, Frank E.; and Sarkozi, Lewis P., 3,679,546.
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Cressman, Russell N.; Bantz, Walter J.; and Nusbickel, Edward M., Jr., 3,672,210.
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Zacharias, Ellis M., Jr.; and Cirulis, Uldis, 3,697,936.
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Aikinson, James D.; Lepley, James W.; Nussbaum, Claire E.; and Stolz, John E., 3,675,796.
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Schroder, Jurgen; and Nussbaum, Hans Georg, 3,648,272.
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O'Neill, Charles T.; Krigbaum, Ronald S.; and Nussbaum, Ralph W., 3,636,141.
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Bertsch, Richard; Fussner, Paul; Glaser, Manfred; and Nusser, Hermann, 3,639,085.
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Cook, Elton S.; and Nutini, Leo G., 3,679,793.
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Krause, Ronald O.; and Ayala, Kenneth J., 3,687,151.
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Denker, James M., 3,662,551.
- Nutt, Roy, mesne: See—
Beightol, Leroy Earl, 3,679,450.
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Nutt, Thomas O., Jr.; and Nutt, Thomas O., III, 3,664,687.
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De Veau, George Frank, Jr.; Nutt, Wendell Glenn; and Webster, George Harry, 3,662,367.
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Summerfield, William F.; and Nuttall, Fleet E., 3,667,763.
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Freeman, Darrell L., 3,674,246.

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Budnik, Roger J.; Montgomery, Harold S.; and Nutting, David J., 3,664,037.
Montgomery, Harold S.; and Nutting, David J., 3,664,562.
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Budnik, Roger J.; Montgomery, Harold S.; and Nutting, David J., 3,664,037.
Montgomery, Harold S.; and Nutting, David J., 3,664,562.
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Zetterlund, Stanley L.; and Skogen, Robert O., 3,675,587.
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Sturges, Nigel; and Nutton, Leonard Charles, 3,636,901.
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Laupman, Robert Ronald, 3,638,043.
Laupman, Robert Ronald, 3,643,127.
Laupman, Robert Ronald, 3,659,150.
Laupman, Robert Ronald, 3,676,706.
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van Lieshout, Leonardus J. M., 3,646,983.
- N.V. Bekaert S.A.: See—
Bruggeman, Frans; and Schmidt, Fernand, 3,690,301.
De Bruyne, Eric, 3,654,099.
Tournoy, Willy, 3,699,797.
Vanderfaillie, Willy, 3,682,419.
Wieme, Andre, 3,654,946.
Wieme, Andre A., 3,668,756.
- N.V. Cacaofabriek de Zaan Koog Zaanijk: See—
Veltman, Preston Leonard; Van Brederode, Herman; and Verdonk, Johannes C. J., 3,702,252.
- N.V. Chefaro Maatschappij: See—
van Driel, Hendrik, 3,674,855.
Wijmenga, Romke; and Wunderink, Jan, 3,662,064.
- N.V. Chemische Fabriek "Naarden": See—
Van der Linde, Leendert Maarten; and Boelens, Harmannus, 3,681,263.
- N.V. Chemische Fabriek v/h Dr. A. Haagen: See—
Van Den Berg, Andre S., 3,703,574.
- N.V. Chemische Industrie "Synres": See—
Van Gasse, Rene L. E.; and Simonis, Petrus J. C. A., 3,652,356.
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Weststrate Jan; and Grabe, Christiaan Albertus Johannes, 3,699,220.
- N.V. "COQ": See—
Boersma, Rintje; and Spoorenberg, Huibert A. J. M., 3,646,412.
Boersma, Rintje; and Irik, Gijsbert Waldemar, 3,657,504.
Boersma, Rintje; and Irik, Gijsbert Waldemar, 3,665,135.
De Heus, Aart Arnoldus, 3,665,257.
Frowein, Egbertus A., 3,649,792.
Frowein, Egbertus Adrianus, 3,649,946.
Houben, Jan P., 3,655,935.
Schuurbiens, Petrus J.; Verhagen, Louis A.; and Vernhout, Johannes G. L., 3,641,803.
- N.V. Eminent: See—
Van Der Kooij, Tijmen, 3,649,736.
- N.V. Gereedschappenfabriek: See—
Spijrenburg, Gozen, 3,669,077.
- N.V. Hollandse Signaalapparaten: See—
Huizen, Corstiaan Le Comte, 3,676,784.
Ter Brugge, Hendrik, 3,664,200.
Van Popta, Yftinus Frederik, 3,646,588.
Van Stuyvenberg, Jan Arnoldus, 3,636,532.
- N.V. Industriële Handelscombinatie: See—
Bordes, Cornelis, 3,643,934.
Van Der Gaag, Cornelis, 3,648,998.
- Van Der Linde, Franciscus Henricus, 3,643,922.
- N.V. Industriële Handelscombinatie Holland: See—
Bordes, Cornelis, 3,680,321.
Burck, Willem Marinus, 3,633,468.
Laarman, Johannes Bertus, 3,658,386.
van der Gaag, Cornelis, 3,680,232.
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van den Kroonenberg, Henricus Hubertus, 3,693,363.
Van Heijst, Willem Jan, 3,638,423.
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van der Veen, Romke, 3,690,180.
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De Koning, Jan, 3,631,997.
De Koning, Jan; and Wolters, Tjako Aaldrik, 3,681,862.
van der Veen, Romke, 3,669,140.
- N.V. Koninklijke Nederlandsch Machinefabriek Voorheen E. H. Begemann: See—
Van Herpt, Cornelis Hendrikus Jozephus, 3,668,177.
- N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia: See—
Nauta, Wjbe Thomas, 3,655,775.
Van Der Stelt, Cornelis; and Hofman, Petrus Simon, 3,635,989.
van der Stelt, Cornelis, 3,666,811.
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Claessens, Frans D.; and Hein, Theodore F., 3,647,345.
- N.V. La Citrique Belge: See—
Smeets, Fred, 3,699,059.
- N.V. Maatschappij voor Industriële Research en Ontwikkeling: See—
Glastra, Hendrik, 3,662,637.
- N.V. Machinefabrik L. Te Strake: See—
Barten, Antonius Martinus, 3,665,974.
Van Mullekom, Hubert Peter, 3,698,441.
Vermeulen, Geert Jan; and Barten, Antonius Martinus, 3,675,687.
- N.V. Machinefabrik Gebr. Kalkaman: See—
Kalkaman, Dirk, 3,660,553.
- N.V. Metavempa: See—
Van de Bilt, Pieter Arnoldus, 3,667,378.
- N.V. Nederlandsche Kabelfabrieken: See—
Biefait, Constant, 3,631,662.
- N.V. Nederlandsche Steenkolenmijnen "Willem-Sophia": See—
Widdershoven, Louis Hubertus, 3,675,509.
- N.V. Neratoom: See—
Van Gasselt, Max L. G.; Van Rijs, Pieter A.; and Basting, Willem J., 3,698,430.
- N.V. Offringa: See—
Kruiger, Kornelis, 3,686,959.
- N.V. Ontwerp- en Exploitatiebureau "Shunt": See—
van de Pol, Eugene J. M., 3,658,242.
- N.V. Optische Industrie de Oude Delft: See—
Bouwers, Albert, 3,688,146.
DeHeere, Gerard Andries Scheltema; and Kingma, Rinze Veenenga, 3,653,307.
- N.V. Plastic Industrie Van Daalen: See—
Van Daalen, Leendert, 3,667,647.
- N.V. Preservenbedrijf: See—
Gerkens, Dirk R. D'Arnaud, 3,692,537.
- N.V. Research Holland: See—
Odekerken, Jules Marie, 3,652,236.
Odekerken, Jules Marie, 3,644,183.
- N.V. Rubberfabriek Vredestein: See—
deMunck, Eduard H. L., 3,680,270.
- N.V. Tot Aanneming van Werken voorhen H. J. Nederhorst: See—
Van Weele, Abraham Francois, 3,677,018.
Van Weele, Abraham Francois, 3,688,509.
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Van Weele, Abraham Francois, 3,683,633.
- N.V. Verenigde Instrumentenfabrieken Enraf-Nonius: See—
Poot, Simon, 3,636,347.
- Ny Met Industries, Inc.: See—
Brodnicki, Anthony F., 3,686,715.
- Nya Asfalt AB: See—
Cappe, Carl T., 3,653,218.
- Nyberg, Carl Erik Josef. Coupling sleeve for coupling engagement with a nipple. 3,650,507, 3-21-72, Cl. 251-149.6.
- Nyberg, Philip E.: See—
Maxwell, Donald L.; and Nyberg, Philip E., 3,671,265.
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- Nyboer, Robert P. Resilient gate valve structure. 3,645,497, 2-29-72, Cl. 251-148.
- Nybom, Ethel Barbro Louise: See—
Nybom, Nils Goran, 3,666,655.

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Nybom, Nils Goran, 3,677,227.
- Nyborg, Ralph Andrew. Aircraft wheel chocks. 3,655,014, 4-11-72, Cl. 188-32.
- Nyby Bruks Aktiebolag: See—
Gunnarsson, Karl Einar, 3,647,686.
- Nyce, Andrew C.: See—
Purdy, David L.; Nyce, Andrew C.; and Forscher, Frederick, 3,661,653.
- Nyce, Jack L.: See—
Gladding, Edward K.; and Nyce, Jack L., 3,707,529.
- Nychka, Henry R., to Allied Chemical Corporation. Process for coupling iodoperhalo compounds. 3,637,868, 1-25-72, Cl. 260-615.
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- Nyefler, Franz, to Heberlein Patent Corporation. Texturizing yarn, process and product. 3,698,177, 10-17-72, Cl. 57-140.00j.
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Almen, Torsten H. O.; Haavaldsen, Johan; and Nordal, Vegard, 3,701,771.
Holtermann, Hugo; Haugen, Leif Gunnar; and Wille, Knut, 3,637,824.
Holtermann, Hugo, 3,666,803.
Nordal, Vegard, 3,681,433.
Salvesen, Sigbjorn; Haugen, Leif Gunnar; Haavaldsen, Johan; and Nordal, Vegard, 3,702,866.
- Nygaard, Tore: See—
Ahrholm, Par; Grune, Per-Olof; and Nygaard, Tore, 3,683,142.
- Nyholm, Erik: See—
Bryk, Petri; Haani, Martti; Honkasalo, Jorma B.; Kinnunen, Jorma; Lindsjo, Olle; Nyholm, Erik; Pojarvi, Jaakko; Rastas, Jussi; and Kangas, Juhani, 3,677,696.
- Nyitray, Istvan: See—
Sandor, Mirlos; Nyitray, Istvan; and Nemeth, Jozsef, 3,689,615.
- Nykopp, Erik A., to Oy Tampella AB. Papermaking machine suction box with yieldably biased cover. 3,649,449, 3-14-72, Cl. 162-365.
- Nykopp, Erik A., to Oy Tampella AB. Press nip of a paper machine composed of a suction roll and a pressure roll. 3,655,507, 4-11-72, Cl. 162-358.
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- Nyland, Lloyd A.: See—
Harlan, Martin L.; Davis, Jerry L.; and Nyland, Lloyd A., 3,640,325.
- Nylander, Alfred F., to Kaiser Aluminum & Chemical Corporation. Production of potassium chloride from carnallitic salts. 3,642,454, 2-15-72, Cl. 23-297.
- Nylen, Roland, to Allmanna Svenska Elektriska Aktiebolaget. Mechanism for testing electrical equipment. 3,696,296, 10-3-72, Cl. 324-158.00p.
- Nylon Products Corporation: See—
Cafarelli, Ralph Joseph, 3,663,142.
- Nylong Corporation: See—
Politzer, Alfred; Atam Alibeckoff, Galib-Bey; and Wang, Pao-Chi, 3,657,035.
- Nyman, Al, & Son, Inc.: See—
Nymman, Morton, 3,703,045.
- Nyman, Bengt E., to Sundstrand Corporation. Hydromechanical storing transmission. 3,665,788, 5-30-72, Cl. 74-751.000.
- Nyman, George E.: See—
Beumer, Karl W.; Geany, Gerard M.; Haran, John A.; Hecker, Edward P.; Nyman, George E.; and Post, Robert E., 3,643,881.
- Nyman, Morton, to Nyman, Al, & Son, Inc. Photo block. 3,703,045, 11-21-72, Cl. 40-152.000.
- Nyquist, E. B.: See—
Pews, R. Garth; and Nyquist, E. B., 3,634,440.
- Nyquist, Edwin B.: See—
Pews, Richard Garth; Corson, Fred P.; and Nyquist, Edwin B., 3,654,334.
- Nysted, Leonard N., to Searle, G. D., & Co. Methylenated steroids and process. 3,634,469, 1-11-72, Cl. 260-397.5.
- Nysten, Bernhard P., to William Prym-Werke KG. Package with slideable display card. 3,651,935, 3-28-72, Cl. 206-66.
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- Nystrom, Robert G.: See—
Pauwels, William A.; and Nystrom, Robert G., 3,638,831.
- Nystuen, Arne M., to Whirlpool Corporation. Induction motor structure and reversing circuit therefor. 3,697,841, 10-10-72, Cl. 318-207.00a.
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- O & S Bearing & Mfg. Co.: See—
Snidar, Edward A., 3,635,508.
- O. Z. Electrical Manufacturing Company: See—
Norden, Alexander R., 3,706,959.
- O-T-D Corporation: See—
Ogle, Paul E.; Coleman, Kenneth L.; Wagner, Ross W.; and Harter, Lynn J. (said Ogle and Coleman, assors. to), 3,690,272.
- Oak Electro/Netics Corporation: See—
Cummings, John G., 3,688,885.
Ford, Frederick M.; and Silhavy, Raymond J., 3,663,827.
Ford, Frederick M., 3,684,068.
Golbeck, Bernard J., 3,663,780.
Jedynak, Leo, 3,690,287.
Richardson, Lonnie J., 3,683,132.
Ruppert, Albert L., 3,636,915.
Ruppert, Albert L., 3,653,136.
Ruppert, Albert L., 3,664,047.
Tap, Henry H., 3,646,823.
- Oak, John T.: See—
Thompson, George W.; and Oak, John T., 3,690,279.
- Oakes, Andrew A.: See—
Teague, Walter Dorwin, Jr.; Montalbano, Anthony Philip; Oakes, Andrew A.; Osborne, Keith; and Susey, Peter E., 3,668,784.
- Oakes, Billy D.: See—
Engle, James P.; Oakes, Billy D.; and Reich, Cecil F., 3,634,270.
- Oakes, E. T., Corporation, The: See—
Baker, Donald E., 3,652,062.
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Christianson, Floyd W.; Oakes, William J.; and Sawtelle, James T., 3,648,869.
- Oakland Community College: *See—*
Sutton, Thomas J., 3,698,104.
- Oakland Plastics Corporation: *See—*
Cook, James M., III, 3,699,901.
- Oaks Power Corporation: *See—*
Peck, Donald W., 3,668,514.
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Hall, Leland V., 3,655,323.
Hall, Leland V., 3,662,925.
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Emerson, Paul D.; Davis, S. Jack; Oatfield, John C.; Engelman, Fred H.; and Bartee, Charles E., 3,633,632.
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- Obara, Katsuji. Automatic apparatus for packaging powdered material with uniform bag weight and with dust-free operation. 3,707,172, 12-26-72, Cl. 141-59.000.
- Obata, Kuniyoshi: *See—*
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Yamamoto, Katsuro; Obata, Kuniyoshi; and Sato, Toru, 3,694,986.
- Obata, Mitsugu: *See—*
Shimoda, Tsunezo; Hikawa, Koji; Yahata, Shuichi; and Obata, Mitsugu, 3,650,614.
- Obata, Shuichi: *See—*
Oda, Fujio; and Obata, Shuichi, 3,673,354.
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- Obayashi, Nobuharu, to Kabushiki Kaisha Kawai Gakki Seisakusho. Electronic musical instrument. 3,700,781, 10-24-72, Cl. 84-1.010.
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- Obendorf, Werner: *See—*
Vorreither, Hans-Klaus; Obendorf, Werner; Menzl, Kurt; and Hofer, Harald, 3,642,811.
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- Ober, Howard C. Riding lawn mower and leaf shredder. 3,657,865, 4-25-72, Cl. 56-13.3.
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- Oberdorfer, Paul E., Jr., to Sun Oil Company. Motor vehicle emission control system. 3,685,502, 8-22-72, Cl. 123-119.00r.
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Vecchi, John C., 3,664,258.
Vecchi, John C., 3,696,489.
- Oberg, Nathan B., to Zero Manufacturing Company. Floor for blast room with uniform down-draft ventilation. 3,657,991, 4-25-72, Cl. 98-32.
- Oberg, Paul E.: *See—*
Paul, Maynard C.; Sauter, Gerald F.; and Oberg, Paul E., 3,683,407.
- Oberg, Per Ake: *See—*
Sjostrand, Ulf Hakan; and Oberg, Per Ake, 3,650,277.
- Obergfell, Allen R.: *See—*
Ramspeck, Howard B.; and Obergfell, Allen R., 3,677,456.
- Obergfell, Allen R., to Fastener Corporation. Fastener driving tool. 3,685,396, 8-22-72, Cl. 91-356.000.
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Geschka, Hugo Werner; Oberhoff, Wolfgang; and Korb, Klaus, 3,672,188.
- Oberholzer, Max: *See—*
Winkler, Erhard; Allemann, Adrian; and Oberholzer, Max, 3,633,196.
- Oberholzer, Rolf: *See—*
Matter, Max; and Oberholzer, Rolf, 3,632,559.
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Gunter, Peter; and Oberkirch, Wolfgang, 3,634,340.
- Oberkirch, Wolfgang; Gunther, Peter; and Pampus, Gottfried, to Farbenfabriken Bayer Aktiengesellschaft. Catalyst for the ring opening polymerisation of cyclopentene. 3,655,584, 4-11-72, Cl. 252-429.
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Mitchell, Robert M.; and Oberkircher, Frederick D., Jr., 3,688,942.
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Buffleb, Herbert; Franck, Heinz Gerhard; Oberkobusch, Rudolf; Turowski, Johannes; Collin, Gerd; and Zander, Maximilian, 3,655,802.
Franck, Heinz-Gerhard; Oberkobusch, Rudolf; Turowski, Johannes; Collin, Gerd; Zander, Maximilian; Erunlu, Recep Kemalettin; Storch, Gunter; Buffleb, Herbert; and Sauerland, Hans-Dieter, 3,636,178.
Wegener, Otto; Oberkobusch, Rudolf; Collin, Gerd; Zander, Maximilian; and Buffleb, Herbert, 3,654,135.
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Kraft, Paul; and Oberlander, Karl, 3,641,920.
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Lloyd, Calvin D.; Oberle, Theodore L.; and Satzler, Ronald L., 3,704,821.
- Oberley, William J.; and Daly, John E., to Koppers Company, Inc. Fire-retardant wood roof assembly. 3,665,667, 5-30-72, Cl. 52-556.

- Oberli, Rudolf, to Greiner Electronic AG. Automatic transfer pipette means. 3,635,094, 1-18-72, Cl. 73-423.
- Oberli, Rudolf. Automatic analyzing apparatus for liquid specimens. 3,660,638, 5-2-72, Cl. 235-61.6.
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- Oberly, James E.; Coless, Thomas L.; and Rimer, D. Woodrow, to Union Carbide Corporation. Welding flux composition. 3,663,313, 5-16-72, Cl. 148-23.
- Obermaier, Alfred A.; and Pierman, Martin J., to Alnor Instrument Company. Air velocity measuring system and method for its calibration. 3,688,576, 9-5-72, Cl. 73-202.000.
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- Obermaier, Frank E., to Eaton Corporation. Three position butterfly valve. 3,675,681, 7-11-72, Cl. 137-625.280.
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- Obermark, John A., to Warner Electric Brake & Clutch Company. Two speed magnetic clutch drive. 3,675,747, 7-11-72, Cl. 192-48.200.
- Obermayer, Arthur S., to Moleculon Research Corporation. Method and apparatus for quality control of explosive primers by characteristic X-ray emission. 3,662,882, 5-16-72, Cl. 209-111.500.
- Obermeier, Frank J., to Economics Laboratory, Inc. Lubricating compositions. 3,657,129, 4-18-72, Cl. 252-251.5.
- Obermeyer, James Henry: *See—*
Brown, Fred; and Obermeyer, James Henry, 3,647,251.
- Obermiller, Herbert C.: *See—*
Anders, Walter G.; and Obermiller, Herbert C., 3,701,497.
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- Oberst, Charles V.; and Oberst, Glen C., to EdAids, Inc. Student responder teaching device. 3,676,939, 7-18-72, Cl. 35-48.00r.
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Oberst, Charles V.; and Oberst, Glen C., 3,676,939.
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- Oberst, James Francis: *See—*
Aaron, Marvin Robert; Hammett, Warren Gail; and Oberst, James Francis, 3,697,690.
- Oberst, James Francis, to Bell Telephone Laboratories, Incorporated. Dead zone phase detector. 3,693,099, 9-19-72, Cl. 328-134.000.
- Oberste-Berghaus, Gerhard, to Pintsch Bamag Aktiengesellschaft. Manufacturing highly concentrated nitric acid. 3,676,065, 7-11-72, Cl. 23-160.000.
- Oberster, Arthur E.; and Schroeder, Ervin E., to Firestone Tire & Rubber Company, The. Stabilization of unvulcanized oil-extended interconnected linear-rubbery-polymers. 3,657,170, 4-18-72, Cl. 260-23.7.
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- Oberto, Giacomo: *See—*
Menicanti, Adriano; and Oberto, Giacomo, 3,664,478.
- Oberwelland, Hugo; and Klahn, Uwe, to August Storck GmbH. Apparatus for producing hollow sweet meats. 3,666,388, 5-30-72, Cl. 425-261.
- Obez, James Edgar; and Dardoufas, Kimon Constantine, to Allied Chemical Corporation. Finishing composition for multi-filament yarns. 3,681,244, 8-1-72, Cl. 252-8.800.
- Obidniak, Louis. Water conditioner. 3,675,775, 7-11-72, Cl. 210-138.000.
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Asada, Yutaka; Obinata, Tatsuichi; and Matsuda, Kamematsu, 3,650,414.
- Obitu, Takeo: *See—*
Orita, Michio; Yahagi, Masakichi; Enomoto, Chohji; Obitu, Takeo; and Tohyama, Takafumi, 3,649,649.
- Obitz, Magdalena: *See—*
Freller, Helmut; and Obitz, Magdalena, 3,665,366.
- Oblak, John M.: *See—*
Owczarski, William A.; and Oblak, John M., 3,642,543.
Owczarski, William A.; Oblak, John M.; and Paulonis, Daniel F., 3,676,225.
- Oblander, Ruth, to Sew Fit Co. Fitting aid. 3,685,155, 8-22-72, Cl. 33-11.000.
- Oblander, Ruth, to Sew Fit Co. Flat dress form. 3,694,921, 10-3-72, Cl. 33-17.00r.
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- Oborn, Pyliss: *See—*
Bruce, Joseph A. G.; Levy, Henry M.; and Oborn, Pyliss, 3,635,660.
- Oborsh, Edward V.: *See—*
Boyer, Robert A.; Schulz, Arthur A.; Oborsh, Edward V.; and Brown, Arthur V., 3,662,673.
Mohrman, Robert K.; Kifer, Paul E.; and Oborsh, Edward V., 3,679,429.
- O'Boyle, Leonard Edward: *See—*
Fisher, George Myles Cordell; Froehlich, Fritz Edgar; Levin, William; McDowell, Blake, III; and O'Boyle, Leonard Edward, 3,706,850.
- Obrador, Guillermo M. Apparatus for drying clothing. 3,673,702, 7-4-72, Cl. 34-162.000.
- Obrecht, Robert P.; Dao, Thomas; and Klingman, Gilbert E., to Stauffer Chemical Company. Ethylene dichloride purification by plural stage distillation. 3,634,200, 1-11-72, Cl. 203-35.
- O'Brian, Ellen M. Automatic cut-off for intravenous equipment. 3,656,505, 4-18-72, Cl. 137-399.
- O'Brien, Arthur F.: *See—*
Arganbright, Ned H.; Koepnick, Paul J.; Nelson Carl T.; and O'Brien, Arthur F., 3,673,949.
- O'Brien, Charles E.: *See—*
Murman, Fernando; Lewis, George E.; Dunn, Allen I.; and O'Brien, Charles E., 3,662,823.
Murman, Fernando; Lewis, George E.; and O'Brien, Charles E., 3,695,349.
- O'Brien, D. G., Inc.: *See—*
O'Brien, Donald G.; and Walker, Edward R., 3,641,479.
- O'Brien, David F.: *See—*
La France, Armand D.; and O'Brien, David F., 3,656,613.
- O'Brien, Dennis M.: *See—*
Ryan, Leo F.; and O'Brien, Dennis M., 3,658,699.
- O'Brien, Dennis M., to Ecodyne Corporation, mesne. Method and apparatus for regenerating mixed beds of ion exchange resins. 3,660,282, 5-2-72, Cl. 210-33.
- O'Brien, Dennis M.; and Miller, Cole R., to Ecodyne Corporation. Method and apparatus for water softening. 3,676,336, 7-11-72, Cl. 210-25.000.
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- O'Brien, Edward M. Extensible and retractable support. 3,637,184, 1-25-72, Cl. 248-279.
- O'Brien, Gerald Joseph: *See—*
McGinnis, Philip Roswell; and O'Brien, Gerald Joseph, 3,690,465.
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- O'Brien, John A., to United States of America, Navy. Floating suction head. 3,690,463, 9-12-72, Cl. 210-242.000.
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- O'Brien, John D.: *See—*
Danielson, Arthur Daniel; Klier, Lyle Charles; and O'Brien, John D., 3,645,735.
- O'Brien, John F.; and Ouellette, Herve J., to General Electric Company. Feeder. 3,662,646, 5-16-72, Cl. 89-33.0sf.
- O'Brien, John W. Mechanical ladle. 3,650,423, 3-21-72, Cl. 214-149.
- O'Brien, Kevin C., to Bell Telephone Laboratories, Incorporated. Bridge circuit utilizing pulse echo technique. 3,704,410, 11-28-72, Cl. 324-58.00a.
- O'Brien, Kevin Christopher, to Bell Telephone Laboratories, Incorporated. Apparatus for use in measuring phase dispersion produced by apparatus or a system. 3,675,136, 7-4-72, Cl. 328-133.000.
- O'Brien, Loren J. Differential transmission. 3,657,935, 4-25-72, Cl. 74-711.000.
- O'Brien, Merrill N.; and Turbak, Albin F. Dry sausage casing. 3,645,760, 2-29-72, Cl. 99-176.
- O'Brien, Michael; Goddard, Wilson B.; and Williams, Rodney B., to University of California, The Regents of the. Sampler for fruits or vegetables in bulk and method of sampling fruits or vegetables in bulk. 3,683,702, 8-15-72, Cl. 73-42.00r.
- O'Brien, Peter Glavey. Roadside marker extension. 3,636,913, 1-25-72, Cl. 116-114.
- O'Brien, Robert J.; Woodall, Norman B.; and Anderson, Donald H., to Eastman Kodak Company. Device for determining that an unexposed film is developed by the proper process. 3,639,061, 2-1-72, Cl. 356-72.
- O'Brien, Robert J., to Eastman Kodak Company. Pre-splice film cleaner. 3,655,473, 4-11-72, Cl. 156-157.
- O'Brien, Samuel James: *See—*
Stockel, Richard Frederick; Herbes, William Frank; and O'Brien, Samuel James, 3,644,083.
Weissbein, Leonard; and O'Brien, Samuel James, 3,679,351.
- O'Brien, Thomas Edward, to Owens-Illinois, Inc. Low voltage pulser circuit for driving row-column conductor arrays of a gas discharge display capable of being made in integrated circuit form. 3,673,431, 6-27-72, Cl. 307-241.000.
- O'Brien, Thomas Edward, to Owens-Illinois, Inc. High voltage pulser circuit for driving row-column conductor arrays of a gas discharge display capable of being made in integrated circuit form. 3,706,892, 12-19-72, Cl. 307-241.000.
- O'Brien, Violet D.: *See—*
O'Brien, John C., 3,678,974.
- O'Brien, Walter F., 50% to Cuchiara, Philip M. Harpsichord with sustain mechanism. 3,677,124, 7-18-72, Cl. 84-258.000.
- Obsarny, Theodore J., to Guardian Electric Manufacturing Company. Sequence relay. 3,689,857, 9-5-72, Cl. 335-165.000.
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Dietrich, Anton; Wagner, Alois; Stutz, Paul; and Obster, Martin, 3,633,243.
- Obuchi, Kazuo. Automatic contour tracing device. 3,653,292, 4-4-72, Cl. 90-62.
- Obuchi, Satoru; Fukuoka, Tokuji; Nagato, Saburo; Murakami, Kunio; Shigeta, Tamikazu; and Hayashi, Hiroyuki, to Nippon Rayon Kabushiki Kaisha. Process for pre-treating glass fibers for reinforcing rubber articles. 3,682,687, 8-8-72, Cl. 117-72.000.
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Konewko, Joseph E.; and Ochipinti, Carl, 3,697,929.
- Ochipinti, Carl; and Cakora, Dennis R., to Bunker-Ramo Corporation, The. Controlled insertion force receptacle for flat circuit bearing elements. 3,638,167, 1-25-72, Cl. 339-74.
- Ochipinti, Peter W. Selectively contourable putting green. 3,690,673, 9-12-72, Cl. 273-176.00h.
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Chemtob, Elie M.; and White, William R., 3,635,338.
Chemtob, Elie M., 3,656,891.
Chemtob, Elie M.; White, William R.; and Marcote, Rolando V., 3,675,773.
Chemtob, Elie M.; and Marcote, Rolando V., 3,685,652.
Garrett, Donald E., 3,661,423.
Garrett, Donald E.; and Sass, Allan S., 3,698,882.
Liu, Tung; and Stern, David R., 3,680,698.
Williams, Kenneth A.; and Stern, David R., 3,694,153.
- Ocean Data Equipment Corporation: *See—*
Purdy, Bruce W.; and Perti, Donato, 3,663,956.
- Ocean Design Engineering Corporation: *See—*
Clement, John C., 3,703,151.
- Ocean Drilling & Exploration Company: *See—*
Brown, Elliot E., 3,653,349.
- Ocean Metrics, Inc.: *See—*
Kerpchar, Michael, 3,689,156.
- Ocean Pollution Control, Inc., *mesne: See—*
Fitzgerald, Hugh J., 3,641,770.
Fitzgerald, Hugh J., 3,653,510.
Sorensen, Robert M., 3,662,892.
- Ocean Protein Corporation: *See—*
Day, John J.; and Hirschman, Paul S., 3,658,034.
Day, John J.; and Hirschman, Paul S., 3,682,138.
Day, John J.; and Hirschman, Paul S., 3,685,489.
Day, John J.; and Hirschman, Paul S., 3,696,788.
- Ocean Sales, Inc.: *See—*
Epper, Karl F., 3,687,111.
- Ocean Science & Engineering, Inc.: *See—*
Sloan, Albert H.; McLelland, Jack I.; Mangels, Theodore F.; and Jantzen, Robert J., 3,683,521.
- Ocean Spray Cranberries, Inc.: *See—*
Altieri, Vincent F.; and Tillotson, James E., 3,692,541.
- Ocean Systems, Inc.: *See—*
Brown, Louis Stanislaus; March, Frank Adams; Bishop, Richard Patten; and Gilman, Bruce Calvin, 3,650,406.
Gilman, Bruce Calvin, 3,658,231.
Hettinger, Frederic Lee; and Gilman, Bruce Calvin, 3,647,253.
Thomas, John P., 3,638,720.
- Oceaneering International, Inc., *mesne: See—*
Basham, Edgar W.; Knapman, John E.; Pollard, Gordon D.; Anthony, John B.; and Munro, Alan C. (said Basham, Pollard, Anthony and Munro assors. to), 3,642,289.
- Oceanography Development Corporation: *See—*
Price, Harold J.; and Snyder, Robert M., 3,687,556.
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Fredericks, Alan D., 3,688,812.
- Oceanography Mariculture Industries, Inc.: *See—*
Lewis, Raymond H., 3,683,853.
Lewis, Raymond H., 3,683,854.
Sanders, Graham Hodge, 3,661,119.
Sanders, Graham Hodge, 3,661,262.
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Shea, James J.; and Ochodnicki, Samuel S., 3,665,201.
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Kretzschmar, Heinz; Chlebus, Rold; and Ochsner, Willi, 3,679,040.
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Burkart, Joseph A.; and O'Connell, Gerald A., 3,647,220.
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Czulak, Joseph; Freeman, Norman H.; and O'Connell, James R., 3,695,893.
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Scannell, Paul R.; La Force, Phil D.; and O'Connell, Wayne T., 3,675,425.
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Ryntz, Edward F., Jr.; and O'Conner, Thomas E., 3,658,115.
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Wetzel, Robert D., 3,701,426.
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Kesten, Martin; and O'Connor, Ralph Bruce, 3,698,271.
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Lee, Henry L., Jr.; Culp, Gordon W.; and Ocupaugh, David E., 3,663,965.
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Mukai, Kazuo; and Odahara, Hisao, 3,694,947.
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Sakurai, Katumi; and Odajima, Kenji, 3,682,789.
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Yoshida, Shoushi; Iwama, Atsuki; Odaka, Takashi; and Suda, Tetuo, 3,685,929.
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Okamura, Seizo; Odan, Koji; and Maruyama, Tsutomu, 3,664,861.
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Yamada, Keisho; Nagai, Shigeki; Odan, Kyoji; Nakamura, Yasuo; and Hidaka, Mikio, 3,636,066.
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Mundt, Trexie L., 3,693,189.
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Adams, Kenneth D.; and Odermann, Charles R., 3,669,044.
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Litt, Morton H.; Lund, Richard B.; Vitrone, John; Herz, Jack L.; and O'Donnell, Francis C., 3,681,333.
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Krauer, Werner; Martinelli, Alfred; and Oehme, Friedrich, 3,657,731.
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Rausch, Werner; Oei, Hans Young; and Moller, Siegfried, 3,671,332.
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Swindt, Joseph K.; and Oelke, Erwin S., 3,641,865.
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Carlson, Robert Philip; and Oelschlaeger, George Frederick, 3,662,653.
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Moller, Werner, 3,637,966.
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Golitz, Hans Dietrich; Degener, Eberhart; Oertel, Gunter; Schmelzer, Hans-Georg; and Simmler, Walter, 3,657,303.
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Nast, Roland; Oertel, Harald; and Ley, Kurt, 3,642,669.
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Grob, Karl; Oertter, Josef; and Wiesner, Paul, 3,687,844.
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Bell, Malcolm R.; Carlson, John A.; and Oesterlin, Rudolf, 3,666,770.
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Kaplan, Lloyd A.; and Oesterling, Robert E., 3,705,197.
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Mortl, Gunther Lorenz, 3,676,163.
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Bailey, Carroll F.; and Oetgen, W. Richard, 3,645,666.
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Anderau, Walter; Oetiker, Alfred; and Deuschel, Werner, 3,634,386.
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Young, Claude Frank; and Offenhauer, Charles Martin, 3,660,544.
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Hopkins, John D.; McLaren, James C.; Johnson, Ronald A.; and Offer, Robert J., 3,681,898.
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Abram, Guy R.; and Offerman, Emil, 3,653,328.
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Asinger, Friedrich; Offermanns, Heribert; and Ghyczy, Mikols, 3,700,683.
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Remy, Maurice A., 3,681,619.
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Hivert, Andre; Lepetit, Pierre; and Walder, Andre, 3,695,869.
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Besson, Jean R.; Cumer, Joseph F.; and Hoarau, Roland J., 3,669,549.
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- Gohin, Gilles M.; and Hivert, Andre R., 3,658,507.
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Girard, Andre J.; and Botineau, Jean, 3,639,062.
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Amanrich, Robert, 3,634,029.
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Tranier, Jean, 3,688,546.
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Zumaglini, Giovanni, 3,667,457.
- Officine Alfieri Maserati: *See—*
Alfieri, Giulio, 3,673,990.
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Nova, Antonio; Nova, Oscar; and Nova, Renzo, 3,669,590.
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Crane, Denis Percy; and Joyce, Edgar, 3,688,082.
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Gorbran, Ramsis; and Ofstead, Ronald F., 3,674,497.
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Tominaga, Yoshiitsu; Ogasawara, Takahisa; Tatemichi, Hidemaro; and Ito, Hiroo, 3,632,639.
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Ogawa, Yutaka; Ogasawara, Takayuki; and Seike, Shoji, 3,658,583.
- Ogasawara, Takeo: *See—*
Hikida, Ryotaro; and Ogasawara, Takeo, 3,693,765.
- Ogasawara, Yukio: *See—*
Kadono, Yoji; Ogasawara, Yukio; and Kamo, Keizo, 3,701,189.
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Ando, Satoshi; Tanaka, Yusaku; Onuma, Sadao; and Ogata, Fumimaro, 3,642,568.
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Watanabe, Yoshihachi; and Ogata, Masaru, 3,670,082.
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Muroi, Tadashi; Sato, Mikio; and Ogata, Masatzugu, 3,705,129.

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Ishida, Moriyoichi; Hori, Terutsugu; Otsuka, Yuzuru; Sato, Kunimitsu; Inoue, Katsuyuki; and Ogata, Yoshio, 3,702,341.
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Arai, Sumio; Inouye, Masaru; Ogata, Yuzuru; Niimi, Yukihiisa; and Nishimoto, Utiro, 3,666,661.
Hayashi, Noburo; Katsumi, Mamoru; Ogata, Yuzuru; Arai, Sumio; Kurita, Yoshiaki; and Inamori, Yoshihiro, 3,639,468.
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Muratani, Takuro; Ogawa, Akira; and Nosaka, Kunishi, 3,676,593.
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Kono, Toyoo; Wada, Sakae; Shiba, Motoharu; Matsuno, Takashi; Yamamoto, Akihiro; Ogawa, Haruki; Okazaki, Hiroshi; Suzuki, Shigeo; and Noto, Takao, 3,632,746.
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Shigematsu, Hiroji; Yamaguchi, Tomio; Fukue, Hisanobu; Ogawa, Hiroshi; Hashimoto, Takashi; Murakoshi, Kenichi; Suguri, Susumu; and Fujimura, Tsutomu, 3,699,436.
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Koyanagi, Shunichi; Ogawa, Kinya; and Akiya, Fumio, 3,639,270.
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Shirakawa, Tadashi; Inagaki, Tohru; Suzuki, Tadao; and Ogawa, Koji, 3,649,205.
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Takahashi, Akira; Kojima, Hiroo; Ogawa, Masao; Osuka, Hiroshi; and Kobayashi, Shoichi, 3,673,279.
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Kushima, Teizo; and Ogawa, Masaya, 3,631,838.
Kushima, Teizo; Tanaka, Susumu; and Ogawa, Masaya, 3,690,759.
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Yoshino, Masataka; Kamiya, Akimi; Ogawa, Nin; Oguri, Atsushi; and Muramatsu, Shigeo, 3,666,007.
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Naito, Daiji; and Ogawa, Shigeyoshi, 3,673,113.
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Seko, Maomi; Ogawa, Shinsaku; Komori, Ryojo; Asuma, Masaro; Isoya, Toshiro; and Sakai, Takamasa, 3,674,653.
Seko, Maomi; Yomiya, Akira; Ogawa, Shinsaku; Tetsuya, Miyake; Ryojo, Komori; and Norito, Ogawa, 3,682,792.
Seko, Maomi; Yomiya, Akira; Ogawa, Shinsaku; Miyake, Tetsuya; Isoya, Toshiro; and Nakagawa, Koji, 3,682,793.
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Yasuda, Nobuaki; Ogawa, Takenobu; Murakami, Yoshio; Higashinakagawa, Iwao; Takeno, Syozo; and Tanaka, Norio, 3,699,619.
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Tsukuda, Kiyoshi; Kamei, Tatsya; and Ogawa, Takuzo, 3,688,164.
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Wakazono, Yoshikazu; Ogawa, Terushige; and Otsuka, Yoshiyasu, 3,664,897.
- Ogawa, Tokuo: *See—*
Nasu, Jiro; Ogawa, Tokuo; and Sekine, Yoshio, 3,700,084.
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Kagari, Yoshiharu; Ogawa, Toshiya; and Hirokawa, Koichi, 3,689,742.
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Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,638,187.
Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,671,936.
Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,671,937.
Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, 3,671,941.
- Ogawa, Yasuhisa: *See—*
Kumai, Akira; and Ogawa, Yasuhisa, 3,655,412.
- Ogawa, Yoshitaka: *See—*
Imai, Atsuo; Harata, Mituo; Ogawa, Yoshitaka; and Hasegawa, Shoji, 3,671,324.
- Ogawa, Yukio: *See—*
Irie, Yoshihiko; Yamawaki, Shunro; and Ogawa, Yukio, 3,692,212.
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Higuchi, Noboru; Ogawa, Yutaka; and Watanabe, Akihiro, 3,674,519.
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Umezawa, Hamao; Maeda, Kenji; Takeuchi, Tomio; Nitta, Kazuo; Okami, Yoshiro; and Ogawara, Hiroshi, 3,655,877.
- Ogden, Charles T.: *See—*
Fusco, Vito A.; Ogden, Charles T.; and Illman, Walter F., 3,668,852.
- Ogden Engineering Corporation: *See—*
Ogden, Ralph; and Lawson, William P., 3,634,644.
Ogden, Ralph, Sr.; and Enoksen, Gerald E. (said Enoksen assor. to), 3,662,147.
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Sekiguchi, Takashi; Tokiura, Shohei; Ogihara, Sadahide; Yamamoto, Rokuro; and Ikeuchi, Akihiro, 3,638,824.

- Ogihara, Shoji: *See—*
Fukuda, Tadanori; Takahashi, Masao; Ogihara, Shoji; and Sekiya, Masato, 3,706,589.
- Ogilvie Flour Mills Company Limited, The: *See—*
Billy, Jean-Marc, 3,658,733.
Hampton, Richard J.; Rolland, Jacques R.; and Gallo, Thomas, 3,704,131.
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Rolland, Jacques R.; and Holme, John, 3,640,730.
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Hensch, Earl John; and Ogilvie, LeRoy Francis, 3,647,101.
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Adica, Osamu; Naito, Kenji; Ogino, Katsuhiko; and Kuroda, Hiroyuki, 3,658,656.
Furuya, Itsuo; Ogino, Katsuhiko; Kamatani, Yoshio; and Naito, Kenji, 3,662,016.
Naito, Kenji; Okudo, Hiroshi; Ogino, Katsuhiko; Tanaka, Michio; Kamatani, Yoshio; Mukai, Hiroshi; and Takeuchi, Tatsu, 3,660,456.
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Kaneko, Akira; Ogino, Tadashi; and Hata, Yoshiyuki, 3,635,856.
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Kasano, Hiroyuki; Kurata, Kazuhiro; Ogirma, Masahiko; Kawamura, Masao; and Kusumoto, Hazime, 3,694,759.
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Aizawa, Horoshi; and Ogiso, Mitsutoshi, 3,656,420.
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Caras, Bernard; and Ogle, James A., 3,654,507.
Holz, George E.; and Ogle, James A., 3,683,364.
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Charman, Walter M., Jr.; Hayes, Robert R.; Middaugh, George J., Jr.; and Wetzig, John M., III, 3,697,631.
Hayes, Robert R.; Fuller, John L.; and Stockham, James R., 3,669,449.
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Otsuka, Tetsuro; Ota, Isao; and Ogo, Shinichi, 3,639,246.
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Chatterjee, Anil K.; and O'Grady, James R., 3,664,277.
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Tatara, Seizo; and Ohdachi, Yoshio, 3,693,206.
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Yamada, Keisho; Umemura, Sumio; Ohdan, Kyoji; Hidaka, Mikio; Fukuda, Kazuo; and Sawazi, Masao, 3,688,002.
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Hough, Robert J., 3,691,601.
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Miyama, Hajime; Harumiya, Noriho; Nakao, Mituru; Kimura, Mutsumi; Ito, Isao; and Ohgushi, Katunori, 3,682,800.
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Ihara, Takashi; Matsuo, Takehiko; and Ohhara, Katsunobu, 3,697,802.
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Nishida, Jun; and Ohhara, Takahumi, 3,678,325.
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Shiba, Keisuke; Oh, Reiichi; Sugiyama, Masatoshi; Ohhashi, Azusa; and Tsubota, Motoniko, 3,658,547.
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Amano, Hiroyuki; Oh, Reiichi; and Shirasu, Kazuo, 3,705,036.
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Mori, Yoichi; Marumo, Nagayuki; Noburu, Fukazawa; and Ohie, Koichi, 3,701,623.
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Kalb, John W., 3,678,340.
- Linson, Donald H., 3,645,899.
- Valentine, Alan T., 3,642,096.
- Ohio Decorative Products, Inc.: *See*—
Neuman, Charles E.; and Shank, Leland R., 3,697,727.
- Ohio Displays, Inc.: *See*—
Coole, Stanley S., 3,667,754.
- Ohio Medical College, The: *See*—
Manning, Maurice, 3,700,652.
- Ohio Moulding Corporation, The: *See*—
Montean, John, Jr., 3,700,277.
- Ohio Nuclear, Inc.: *See*—
Blum, Alvin S., 3,695,254.
- Ohio State University Research Foundation, The: *See*—
Walter, Carlton H.; Rudduck, Roger C.; and Ryan, Charles E., Jr., 3,656,165.
- Ohio State University, The: *See*—
Bozler, Carl O., 3,636,919.
- Campbell, William B., Jr.; Burroughs, Jack E.; and Cochran, Joe K., Jr., 3,638,243.
- Kendall, Lytton A., Jr., 3,701,271.
- Libby, Charles C.; and McDaniel, Raymond C., 3,676,720.
- Likins, Keith L., 3,672,454.
- McMaster, Robert C., 3,650,016.

- Minchenko, Hildegard M.; and Kendall, Lytton A., Jr., 3,643,483.
- Rapp, Robert Anthony, 3,699,032.
- St. Pierre, George R., 3,690,808.
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- Ohira, Fukuichi; Matsumura, Toshikazu; and Shiode, Chuji, to Chisso Corporation. Degradative polyolefin composition. 3,642,761, 2-15-72, Cl. 260-93.7.
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- Ohira, Tsunehisa, to Victor Company of Japan, Limited. Operation device for cassette type tape recorder. 3,689,077, 9-5-72, Cl. 274-4.00e.
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Imai, Tomio; Shimamura, Mutsuo; Yoshitake, Juichi; and Ohiwa, Hitoshi, 3,669,845.
- Ohiwa, Katsuhiko: *See*—
Kamamazuka, Iseji; and Ohiwa, Katsuhiko, 3,683,869.
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Imai, Masaru; and Ohkawa, Tokio, 3,690,210.
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Takeshima, Akio; Ueyama, Tadashi; Ohki, Akinori; and Mori, Tetsuo, 3,655,470.
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Kominami, Naoya; Nakajima, Hitoshi; Tamura, Nobuhiro; and Ohki, Kusuo, 3,634,496.
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Takaoka, Takashi; Ohkoshi, Seiichi; and Unno, Yoichi, 3,649,124.
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Miyato, Akira; Ohkubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, 3,699,013.
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Saitoh, Kohichi; Ohkubo, Nobuo; Sobajima, Katsunobu; and Hirano, Takeshi, 3,672,656.
- Ohkubo, Takashi: *See*—
Masuda, Shiro; Ohkubo, Takashi; and Furukawa, Yu, 3,703,492.
- Ohkuni, Morihiko: *See*—
Ohashi, Kiyoshi; Ohkuni, Morihiko; and Kurayoshi, Otohara, 3,661,723.
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Baba, Tatsuo; and Abe, Katsuo, 3,691,364.
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Stockham, John D.; Townsend, Lawrence B.; Ohlhaber, Ronald L.; and Scopelite, Thomas M., 3,641,320.
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Armstrong, Thaddeus J.; and Ohlhaber, Jon, 3,635,619.
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- Ohlinger, Manfred: *See*—
Hartmann, Hans Joerg; Leonhard, Karl Wilhelm; Ohlinger, Manfred; and Schwarzmatt, Matthias, 3,687,851.
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Kampfer, Helmut; Ohlschlager, Hans; and Gesierich, Wolf, 3,635,706.
- Ohlschlager, Hans; and Riester, Oskar, to Agfa-Gevaert Aktiengesellschaft. Sensitization of layers made of polymers which can be cross-linked by the action of light. 3,650,756, 3-21-72, Cl. 96-91.
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- Ohlsson, Kurt L. Means for suspending files or folders in a filing cabinet. 3,680,938, 8-1-72, Cl. 312-184.000.
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Uchida, Naoya; Ohmachi, Yoshiro; and Niizeki, Nobukazu, 3,661,441.
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- Ohmart Corporation, The: *See*—
Cahill, Bonaventure B.; and Lyon, Wilfred W., 3,665,199.
- Cahill, Bonaventure B.; and Lyon, Wilfred W., 3,668,399.
- Ohmega Laboratories: *See*—
Harbeson, William D., 3,668,556.
- Ohmi, Atsushi: *See*—
Watabe, Shigeru; and Ohmi, Atsushi, 3,678,687.
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- Ohmori, Koichiro, to Honshu Paper Company. Method for manufacturing a composite corrugated paper board. 3,700,518, 10-24-72, Cl. 156-152.000.
- Ohmura, Einosuke: *See*—

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- Ohmura, Jukichi: *See*—
Nakahara, Yasuji; Ohmura, Jukichi; and Horinaka, Ryoji, 3,666,708.
- Ohmura, Jyukichi: *See*—
Suzuki, Isamu; Ichikawa, Kiyoshi; Ohmura, Jyukichi; and Iwashita, Hidemaro, 3,642,703.
- Ohmura, Kunioki: *See*—
Ohkubo, Kinji; Noguchi, Junpei; and Ohmura, Kunioki, 3,672,901.
- Ohmura, Nobuaki: *See*—
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- Ohmura, Satoshi: *See*—
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- Ohmura, Tadayoshi: *See*—
Kawata, Ryuichi; Kawada, Hirotsu; Ohmura, Tadayoshi; and Uematsu, Sumio, 3,639,564.
- Kawata, Ryuichi; Kawada, Hirotsu; Ohmura, Tadayoshi; and Uematsu, Sumio, 3,692,562.
- Ohmuro, Yuzo: *See*—
Seimiya, Ryubun; Ohmuro, Yuzo; Hanaoka, Sigeru; and Nakamura, Masaru, 3,653,890.
- Ohnacker, Gerhard: *See*—
Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfried, 3,661,903.
- Ohnacker, Gerhard; Daniel, Helmut; and Machleidt, Hans, to Boehringer Ingelheim G.m.b.H. N-substituted 1,2,3,4,4a,10a-hexahydro-(10H) 1-benzopyrano-[3,2,c]-pyridines. 3,691,173, 9-12-72, Cl. 260-293.550.
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Kawamura, Toshiki; and Ohneda, Tohru, 3,682,376.
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- Ohnishi, Shinji: *See*—
Sato, Kogo; Kato, Hiroshi; and Ohnishi, Shinji, 3,672,984.
- Ohnishi, Takanobu: *See*—
Miyoshi, Munetugu; Niwa, Kouichi; Ohnishi, Takanobu; Danno, Tamotsu; and Higaki, Koh, 3,652,531.
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- Ohno, Isamu; Kobayashi, Akio; Ohte, Akira; Tamuki, Minoru; and Ohta, Susumu, to Yokogawa Electric Works, Ltd. Electric controller systems with manual and automatic mode. 3,655,992, 4-11-72, Cl. 307-87.
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Tsuji, Jiro; Hara, Michio; and Ohno, Kiyotaka, 3,658,866.
- Ohno, Masao; and Kijima, Katsumi, to Nippon Kogaku K.K. Ultraviolet ray cutting pink glass for color photography. 3,671,277, 6-20-72, Cl. 106-47.00q.
- Ohno, Richard J., to Sargent & Company. Fish mouth implements. 3,675,359, 7-11-72, Cl. 43-53.500.
- Ohno, Satoyoshi: *See*—
Kato, Tatsuya; Chikatsu, Nagoya; Suwada, Ataru; and Ohno, Satoyoshi, 3,658,766.
- Ohno, Tomeji: *See*—
Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo, 3,699,045.
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- Ohno, Toshihiko, to Rion Kabushiki Kaisha. Viscometer. 3,675,470, 7-11-72, Cl. 73-59.000.
- Ohno, Yasuhisa: *See*—
Tanaka, Ikuzo; Ohno, Yasuhisa; and Okada, Tadashi, 3,658,811.
- Ohno, Yoshio; Eda, Korekiyo; Tamamura, Toshio; and Yamasaki, Kosaburo, to Kanegafuchi Boseki Kabushiki Kaisha. Apparatus for preparing a multi-layer structure. 3,687,784, 8-29-72, Cl. 156-500.000.
- Ohnsorge, Horst: *See*—
Herold, Wolf; and Ohnsorge, Horst, 3,641,273.
- Proglar, Max; Wessenberg, Klaus; Wagner, Winfried; and Ohnsorge, Horst, 3,638,183.
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- Ohntrup, Frederick F.; Truemper, John P.; and Smith, Billy C., to Eaton Yale & Towne, Inc. Photoelectric motor control. 3,641,413, 2-8-72, Cl. 318-480.
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Kubo, Seitoku; Ohnuma, Kiyoshi; and Hirose, Koichiro, 3,646,836.
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Akahori, Hiroshi; Ohnuma, Yoshiro; and Kubozoe, Morioki, 3,636,346.
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Sennewald, Kurt; Ohorodnik, Alexander; and Hardel, Hans-Joachim, 3,639,472.
- Sennewald, Kurt; Ohorodnik, Alexander; and Neumaier, Hubert, 3,641,164.
- Sennewald, Kurt; Ohorodnik, Alexander; and Dettmeier, Udo, 3,642,929.
- Sennewald, Kurt; Ohorodnik, Alexander; Hundenck, Joachim; Mittler, Werner; Vierling, Hermann; and Opitz, Wolfgang, 3,660,306.
- Ohosugi, Masayuki: *See*—
Yanagi, Masana; Nakamura, Itaru; Ohosugi, Masayuki; Takizawa, Kiyos; Kakinami, Masanori; and Sano, Chikara, 3,658,634.
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Azami, Kyoichiro; Ohotani, Hiroshi; and Fukutomi, Hiroshi, 3,694,383.
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- Ohring, Lothar. Device for filling individual receptacles with a metered quantity of a flowable material. 3,659,634, 5-2-72, Cl. 141-163.
- Ohringer, Philip: *See*—
Mayo, Robert A.; and Ohringer, Philip, 3,679,130.
- Ohrn, Karl-Gustav: *See*—
Larsson, Ingemar; and Ohrn, Karl-Gustav, 3,656,577.
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- Ohsaki, Kozo: *See*—
Konoki, Keizo; and Ohsaki, Kozo, 3,640,052.
- Konoki, Keizo; and Ohsaki, Kozo, 3,684,442.
- Ohsato, Nobuyoshi: *See*—
Ito, Kunihiko; Fujimoto, Yukiya; Ohsato, Nobuyoshi; and Akashi, Naotomo, 3,661,548.
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Kodera, Yoshihide; Kato, Jun; Shimada, Kazuo; Suzuki, Morio; Ohse, Hidetaka; Ohshima, Satoshi; and Kuriki, Yasunori, 3,654,143.
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Tanaka, Katsunobu; Ohshima, Kazuo; Kimura, Kazuo; and Yamamoto, Masaki, 3,639,210.
- Tanaka, Katsunobu; Ohshima, Kazuo; Tokoro, Yoh; and Okii, Mitsuyoshi, 3,698,997.
- Ohshima, Kotaro: *See*—
Abe, Isao; Hirose, Tatsuo; and Ohshima, Kotaro, 3,699,976.
- Ohshima, Noboru: *See*—
Ishida, Shinichi; Ohshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; and Kurita, Kunio, 3,651,015.
- Ishida, Shinichi; Ohshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; Kurita, Kunio; Ohki, Hayashi; Sato, Kunio; Nagamatsu, Kazuo; and Tokushige, Akira, 3,654,228.
- Ishida, Shinichi; Yano, Nobumitsu; Ohshima, Noboru; Fukuda, Hiromichi; and Sato, Takeshi, 3,696,170.
- Ohshima, Satoshi: *See*—

- Kodera, Yoshihide; Kato, Jun; Shimada, Kazuo; Suzuki, Morio; Ohse, Hidetaka; Ohshima, Satoshi; and Kuriki, Yasunori, 3,654,143.
- Ohshita, Masahide; and Tsukagoshi, Tsunehiro, to Pioneer Electronic Corporation. Manufacturing process for an InSb thin film semiconductor element. 3,674,549, 7-4-72, Cl. 117-201.000.
- Ohshita, Masakazu. Multiple free wheel for a bicycle. 3,661,021, 5-9-72, Cl. 74-217.
- Ohshita, Takashi: *See*—
Susuki, Rinnosuke; Hoshi, Hiroshi; Araki, Shinichi; and Ohshita, Takashi, 3,669,321.
- Ohsumi, Yoshio; Matsunaga, Yoshiki; Ishida, Hiroshi; Onoda, Takeshi; Onishi, Masaru; Kasugai, Hiroshi; and Namiki, Tadao, to Mitsubishi Chemical Industries Limited. Surfactant production via rhodium-catalyzed oxo process. 3,636,034, 1-18-72, Cl. 260-459.
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Kamegaya, Takeo; Imahori, Yutaka; Ohta, Akira; Kanoh, Tadao; and Ohara, Akio, 3,670,195.
- Ohta, Eiichi: *See*—
Takenaka, Haruo; Okuyama, Hiroshi; Hibino, Noburo; and Ohta, Eiichi, 3,667,283.
- Ohta, Hiram H.: *See*—
Charlton, Gregory G.; Hanratty, Robert J.; and Ohta, Hiram H., 3,670,336.
- Ohta, Hiroshi, to Toyota Koki Kabushiki Kaisha. Workpiece locating apparatus for use in multiwheel grinding machines. 3,690,070, 9-12-72, Cl. 51-105.000.
- Ohta, Kimio: *See*—
Campbell, George Thomas Richardson; and Ohta, Kimio, 3,678,875.
- Ohta, Kuniichi: *See*—
Matsukura, Yasuo; Wada, Toshio; and Ohta, Kuniichi, 3,651,348.
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Higashi, Tadao; Iwatat, Yoshinori; and Ohta, Masae, 3,638,143.
- Ohta, Masanori. Method for separating oils from water. 3,689,406, 9-5-72, Cl. 210-23.000.
- Ohta, Masaya, to Hitachi, Ltd. Method of manufacturing a semiconductor device and a semiconductor device obtained thereby. 3,635,774, 1-18-72, Cl. 156-17.
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Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; Watanabe, Ichiro; Murayama, Keisuke; and Morimura, Syoji, 3,684,765.
- Matsui, Katsuaki; Kurumada, Tomoyuki; Watanabe, Ichiro; Ohta, Noriyuki; Murayama, Keisuke; and Morimura, Syoji, 3,705,126.
- Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kurumada, Tomoyuki; Watanabe, Ichiro; and Ohta, Noriyuki, 3,640,928.
- Murayama, Keisuke; Toda, Toshimasa; Yamao, Eiko; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; and Watanabe, Ichiro, 3,692,778.
- Ohta, Shoji: *See*—
Goshima, Takeshi; Ohta, Shoji; and Imai, Nobuhiro, 3,687,395.
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- Ohta, Susumu: *See*—
Ohno, Isamu; Kobayashi, Akio; Ohte, Akira; Tamuki, Minoru; and Ohta, Susumu, 3,655,992.
- Ohta, Takahiro: *See*—
Utsugi, Mikio; and Ohta, Takahiro, 3,669,789.
- Ohta, Tetsuya: *See*—
Takaoda, Tsuneo; Ohta, Tetsuya; and Itoh, Masaru, 3,691,111.
- Ohta, Wasaburo: *See*—
Arai, Fumiaki; Ohta, Wasaburo; Kurokawa, Junki; Usui, Noriyuki; Shimizu, Sakae; and Tanaka, Tetsuo, 3,682,632.
- Kasuya, Kazuhiko; Ohta, Wasaburo; and Okuno, Zenjiro, 3,640,751.
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- Ohta, Wasaburo, to Ricoh Co., Ltd. Device for cleaning photosensitive member in electrophotography. 3,644,959, 2-29-72, Cl. 15-256.52.
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- Tsuneta, Asahide; Ohta, Yasuo; Ikegaki, Makoto; Sawagata, Shinichi; and Sato, Fumiyuki, 3,659,133.
- Ohta, Yukihiro: *See*—
Ayano, Hiroyoshi; Kibino, Yasuaki; Sato, Hiroyoshi; Ohta, Yukihiro; and Fukuhara, Minoru, 3,683,303.
- Ohtake, Sadao: *See*—
Ishizawa, Kazutomo; Kubota, Tetsujiro; Miki, Jiro; Matsunaga, Hirotsugu; and Ohtake, Sadao, 3,653,808.
- Ohtaki, Shohei: *See*—
Ogiso, Mitsutoshi; and Ohtaki, Shohei, 3,699,858.
- Ohtani, Mariko: *See*—
Hata, Toju; Matsumae, Akihiro; Abe, Kimihiko; Sano, Yoshimoto; Ohtani, Mariko; and Ohmura, Satoshi, 3,650,904.
- Ohtani, Tadao: *See*—
Yamashita, Toshio; Ohtani, Tadao; Yoshida, Manabu; Kitamura, Saburo; and Murakami, Hideaki, 3,636,492.
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- Ohtani, Yoshio, to Diesel Kiki Kabushiki Kaisha. Fuel controlling device for injection type internal combustion engines. 3,682,145, 8-8-72, Cl. 123-32.0ea.
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Ohno, Isamu; Kobayashi, Akio; Ohte, Akira; Tamuki, Minoru; and Ohta, Susumu, 3,655,992.
- Ohtomi, Hiroshi: *See*—
Kono, Motomi; and Ohtomi, Hiroshi, 3,684,093.
- Ohtomo, Koichiro: *See*—
Kimura, Isao; Ogata, Fumimaro; and Ohtomo, Koichiro, 3,637,900.
- Kimura, Isao; Ogata, Fumimaro; and Ohtomo, Koichiro, 3,702,350.
- Ohtsu, Ikuro: *See*—
Asano, Hiroaki; Koide, Tsuyoshi; Ohtsu, Ikuro; Hayashi, Shozo; and Kobayashi, Hiroshi, 3,643,383.
- Ohtsu, Masao: *See*—
Asano, Hiroaki; and Ohtsu, Masao, 3,688,411.
- Ohtsuka, Kunio: *See*—
Mori, Yoichi; Okazaki, Nobuo; Ohtsuka, Kunio; and Iijima, Tetsuya, 3,701,293.
- Ohtsuka, Noriko: *See*—
Fujisawa, Tamotsu; Ohtsuka, Noriko; Kobori, Takeo; and Tsuchihashi, Genichi, 3,706,805.
- Ohtsuka, Yasuo: *See*—
Iwasaki, Koichiro; Yamaguchi, Kazuo; Kakogawa, Genjiro; Ohtsuka, Yasuo; and Kasahara, Kanji, 3,642,748.
- Ohtsuki, Motohiro: *See*—
Koyama, Shigeo; Ohtsuki, Motohiro; Shimatani, Kenji; Yasuda, Masao; Takel, Toru; Kawai, Yasutaka; and Matsushima, Takeshi, 3,644,780.
- Ohuchi, Yasushi: *See*—
Murakami, Tadao; Kikuchi, Ken; Tomozaki, Riyouzou; and Ohuchi, Yasushi, 3,703,227.
- Ohuye, Hideki: *See*—
Kato, Yoshiaki; and Ohuye, Hideki, 3,697,789.
- Ohya, Masaki: *See*—
Amagi, Yasuo; Ohya, Masaki; Shiiki, Zenya; and Yusa, Haruhiko, 3,671,610.
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Ohnishi, Toshimi; Suzuki, Takamitsu; Takahashi, Akio; Yagi, Hiroshi; and Ohya, Shunichi, 3,688,549.
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Hizume, Akio; Ohyagi, Shuji; and Tanaka, Shigeo, 3,651,688.
- Ohyama, Hideki, to Nippon Kogaku K.K. Instrument for observing colored bubble image. 3,694,090, 9-26-72, Cl. 356-148.000.
- Ohyama, Isao: *See*—
Yamawaki, Shunro; Ohyama, Isao; Nishizawa, Mitsunori; and Hayakawa, Ken, 3,632,988.
- Ohyama, Katsuzi: *See*—
Shimano, Akira; Maki, Shin; Ohyama, Katsuzi; and Uchiyama, Hiromichi, 3,650,542.
- Ohyama, Masaru: *See*—
Wada, Takeo; Okada, Kazuo; and Ohyama, Masaru, 3,698,358.
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Wada, Shigeru; Oi, Hidesaburo; Matsuzawa, Norio; Nishimura, Hiroshi; and Sasaki, Juntaro, 3,701,763.

Oi, Kazuo; and Negishi, Katuo, to Kazuo Oi. Method and apparatus for centrifugal classification. 3,667,600, 6-6-72, Cl. 209-144.000.

Oi, Kyoko: *See—*

Awazu, Kenzo; Matsunaga, Kazu; Muto, Katsutoshi; Kai, Junjiro; and Oi, Kyoko, 3,673,103.

Oida, Etuo: *See—*

Iwata, Susumu; and Oida, Etuo, 3,650,750.

Oida, Sadao: *See—*

Ohki, Eiji; and Oida, Sadao, 3,657,274.

Oien, Hans T.: *See—*

Vogel, Herward A.; and Oien, Hans T., 3,637,758.

Vogel, Herward A.; and Oien, Hans T., 3,663,507.

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Oikawa, Akira: *See—*

Watanabe, Tetsuo; Oikawa, Akira; and Masayoshi, Kuroda, 3,696,854.

Oikawa, Mitsuru: *See—*

Okabe, Tadao; Tanaka, Makoto; Tamura, Shozo; Fukushima, Masakazu; and Oikawa, Mitsuru, 3,668,002.

Okabe, Tadao; Oikawa, Mitsuru; Tanaka, Makoto; and Nagashiro, Waichi, 3,703,374.

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Oil Base, Inc.: *See—*

Bennett, Robert B.; and McMordie, Warren C., Jr., 3,642,623.

Wilson, Doane L.; and Bennett, Robert B., 3,634,235.

Oil Mop, Inc.: *See—*

Rhodes, Herbert M., 3,689,407.

Rhodes, Herbert M., 3,701,258.

Oil Mop International, Inc.: *See—*

Rhodes, Herbert M., 3,668,118.

Oil Shale Corporation, The: *See—*

Barney, John H.; and Carlson, Franklin B., 3,691,056.

Haas, Frank C., 3,656,936.

Oil States Rubber Co.: *See—*

Landers, Don B., 3,691,584.

Landers, Don B., 3,702,537.

Oil-Rite Corporation: *See—*

Lyden, Frank J., 3,656,584.

Oimachi, Irumagun: *See—*

Kobayashi, Hidehiko; Sasaguri, Kiichiro; Oimachi, Irumagun; Neki, Kazuya; and Tanimura, Noboru, 3,689,623.

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Hara, Hikoharu; Oishi, Yasushi; and Nagao, Kameji, 3,676,141.

Mizuki, Eiichi; Oishi, Yasushi; and Sawahara, Masao, 3,676,137.

Nagae, Tadashi; Oishi, Yasushi; and Hayashi, Jun, 3,640,716.

Nagae, Tadashi; Oishi, Yasushi; and Hayashi, Jun, 3,706,556.

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Tabata, Yoncho; and Oizumi, Chihiro, 3,679,562.

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Shima, Takeo; Urasaki, Takanori; and Oka, Isao, 3,637,910.

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Matsuda, Shozo; Tanaka, Tadashi; Murayama, Kouzou; Yamamoto, Kunimitsu; Oka, Joji; Takahashi, Ryoji; and Koyama, Megumi, 3,663,383.

Oka, Masahiko: *See—*

Kometani, Yutaka; Tatemoto, Masayoshi; Okuda, Masahiro; Okuno, Chuzo; Sakata, Shinsuke; Sakai, Shoji; and Oka, Masahiko, 3,642,754.

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Ninomiya, Shoichi; Sakai, Masaaki; Oka, Sakae; and Kusunoki, Kikunobu, 3,675,224.

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Sasaki, Nobuyuki; Oka, Shunzo; and Yano, Tadashi, 3,633,146.

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Ikuo, Yorio; Okabayashi, Minoru; Ono, Keisuke; Mizugaki, Yoshikazu; and Hayashi, Juntaro, 3,674,129.

Yamazaki, Chikayasu; Okabayashi, Minoru; and Ando, Koichiro, 3,661,012.

Okabe, Akira: *See—*

Maruyama, Mitsuo; Okabe, Akira; Yamazaki, Hideo; Sakai, Hideaki; Shimazu, Tadao; Kajiya, Shotaro; and Noda, Katsunobu, 3,651,056.

Okabe Company Limited: *See—*

Hanzawa, Yasuo, 3,691,806.

Okabe, Masao: *See—*

Sawaka, Jiro; Misaki, Tetsuo; Okabe, Masao; Yasui, Hajime; Hanada, Kazunori; and Okazaki, Tadayasu, 3,652,400.

Okabe, Tadao: *See—*

Oikawa, Mitsuru; Tamura, Shozo; and Okabe, Tadao, 3,688,359.

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Nara, Takashi; Misawa, Masanaru; and Okachi, Ryo, 3,682,777.

Okada, Akio: *See—*

Kanamaru, Toshiji; Morita, Katsumi; and Okada, Akio, 3,693,094.

Okada, Akira: *See—*

Oshima, Shintaro; Kobayashi, Toshihiko; Kamibayashi, Tetsusaburo; Okada, Akira; Komazawa, Yoshihisa; and Komuro, Keigo, 3,666,635.

Okada, David T.: *See—*

Baginski, Albert R.; Okada, David T.; and Stastny, Edwin O., 3,695,148.

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Okada, Hiroshi: *See—*

Nagayama, Masuzo; and Okada, Hiroshi, 3,705,192.

Wakamura, Nobuo; Okada, Hiroshi; Osakada, Atsushi; and Tanaka, Takashi, 3,645,928.

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Isono, Katsuo; and Okada, Hisao, 3,702,376.

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Hiyama, Yoshio; Fujita, Haruo; Tsunetomi, Eiichi; Okada, Kan; and Kude, Satoshi, 3,681,564.

Okada, Kazuo: *See—*

Wada, Takeo; Okada, Kazuo; and Ohyama, Masaru, 3,698,358.

Okada, Kazuya: *See—*

Okamoto, Hiroshi; and Okada, Kazuya, 3,704,500.

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Susuki, Rinnosuke; Hoshi, Hiroshi; Satto, Jiro; and Okada, Minoru, 3,691,120.

Yamaya, Taiji; and Okada, Minoru, 3,688,169.

Okada, Morio: *See—*

Hasegawa, Katsumi; Ando, Akio; Okada, Morio; Kohno, Yukio; Aoi, Norihiko; Kamo, Tadasu; Hikita, Shinito; and Fukuda, Atsushi, 3,650,486.

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Inoue, Kiyoshi; Ishikawa, Tetsuo; and Okada, Shingo, 3,703,796.

Okada, Shinichi: *See—*

Miyadera, Yasuo; Masuko, Tatuo; Muroi, Tadashi; Okada, Shinichi; and Noguchi, Hiroshi, 3,639,342.

Okada, Tadao: *See—*

Nakanishi, Michio; Arimura, Katsuo; and Okada, Tadao, 3,661,902.

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Tanaka, Ikuzo; Ohno, Yasuhisa; and Okada, Tadashi, 3,658,811.

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Takamizawa, Hideo; Yotsuyanagi, Keiichi; and Okada, Takashi, 3,639,247.

Yoshida, Shoushi; Iwama, Atsuki; Okada, Takashi; and Suda, Tetuo, 3,659,973.

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Takeuchi, Koichi; Okada, Takeo; and Aoki, Shinichi, 3,668,350.

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Yazawa, Masahide; Okada, Tokio; and Yamano, Kazue, 3,662,935.

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Sakurada, Ichiro; and Okada, Toshio, 3,649,494.

Sakurada, Ichiro; and Okada, Toshio, 3,652,435.

Sakurada, Ichiro; and Okada, Toshio, 3,682,802.

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Fukuyama, Yasuo; and Okada, Yosuke, 3,673,025.

Okada, Yukihiro: *See—*

Hori, Shin; Inoue, Tomiyoshi; Yamamoto, Shozo; Tataru, Kazuo; Kitagawa, Mashi; Watanabe, Masaru; Okada, Yukihiro; and Negishi, Naoki, 3,686,832.

Okado, Masaru: *See—*

Arimura, Tohru; Kamata, Masamoto; Okado, Masaru; and Ichimaru, Takarokuro, 3,641,325.

Okagami, Akio: *See—*

Gomi, Shinpei; Takahashi, Masaaki; Ishiguro, Tadashi; Okagami, Akio; Uemoto, Kunihiko; and Kuribayashi, Hiroshi, 3,689,401.

Okagawa, Chikatsu: *See—*

Fujii, Shigeru; Miwa, Takashi; Noji, Kazushige; Okagawa, Chikatsu; and Toki, Masamichi, 3,645,819.

Okazaki, Kaoru; Shimokawa, Yoichi; Maeda, Taneo; Igawa, Keisuki; Okagawa, Chikatsu; and Kato, Koichi, 3,639,502.

Okajima, Masaki; and Yokoyama, Ryuzaburo, to Ricoh Co., Ltd. Adding machine with printing device. 3,667,670, 6-6-72, Cl. 235-60.0mt.

Okami, Taketoshi: *See—*

Wakamatsu, Hachiro; Okami, Taketoshi; and Sato, Jiro, 3,683,019.

Okami, Yoshiro: *See—*

Umezawa, Hamao; Hamada, Masa; Naganawa, Hiroshi; Takeuchi, Tomio; Maeda, Kenji; and Okami, Yoshiro, 3,639,582.

Umezawa, Hamao; Maeda, Kenji; Takeuchi, Tomio; Nitta, Kazuo; Okami, Yoshiro; and Ogawara, Hiroshi, 3,655,877.

- Umezawa, Hamao; Maeda, Kenji; Okami, Yoshiro; and Takeuchi, Tomio, 3,681,491.
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Kuramoto, Yoshio; Okamoto, Akio; and Kabori, Toshio, 3,686,711.
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Ando, Noriyoshi; Okamoto, Atutoshi; Taniguchi, Koichi; Nakano, Yoshiaki; and Toyama, Koichi, 3,652,132.
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Arai, Hiroshi; Nakamura, Akira; Okamoto, Atutoshi; Okumura, Shunji; Suzuki, Motoyoshi; and Sugiura, Akio, 3,690,735.
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Esaka, Teruo, 3,674,495.
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Kagiya, Tsutomu; Hagiwara, Miyuki; and Okamoto, Hidemasa, 3,663,391.
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Oishi, Masashi; Shimada, Michihiko; Nakayama, Yuji; Naito, Koichiro; and Okamoto, Kazuhiko, 3,669,645.
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Ohki, Makoto; Irie, Hisashi; and Okamoto, Kazuo, 3,639,204.
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Ishii, Hirozi; and Okamoto, Koichi, 3,673,659.
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Shiga, Takeo; Okamoto, Michio; and Kohsaka, Osamu, 3,646,270.
- Okamoto, Mitsuhiro: *See—*
Ito, Shoji; Fujioka, Kotaro; Okamoto, Mitsuhiro; and Kikuchi, Tetsuya, 3,690,575.
- Okamoto, Mitsuo: *See—*
Togawa, Hideo; and Okamoto, Mitsuo, 3,684,880.
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Toki, Masamichi; Hikota, Toyohiko; and Okamoto, Miyoshi, 3,706,613.
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Nagasawa, Fujio; Okamoto, Shosuke; Takagi, Eiichi; Yokoi, Mikio; and Mangyo, Mitsuo, 3,639,626.
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Suzuki, Ruuzo; Sato, Sumihisa; Okamoto, Shuji; Shinozaki, Akira; and Doi, Tatsumi, 3,687,542.
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Eguchi, Fusatoshi; Okamoto, Sohei; Yamaha, Mashio; Matsumoto, Nobuo; and Yokoyama, Minoru, 3,703,963.
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Inaba, Shigeho; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Yamamoto, Hisao, 3,666,643.
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Matsuda, Hideaki; and Okamoto, Takanori, 3,687,860.
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Terasaki, Iwao; Kimura, Yoshio; Okamoto, Toshio; Shima, Tsukasa; Kohno, Mitsuo; and Kitamura, Kazuyuki, 3,669,927.
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Yamazaki, Toshio; Abu, Takao; Sato, Takefumi; Nishida, Koji; and Okamoto, Tosiaki, 3,652,133.
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Maeda, Hajime; Takeishi, Yoshiyuki; Sato, Tai; Hara, Hisashi; and Okamoto, Yoshihiko, 3,634,737.
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Higuchi, Shunichiro; and Katayose, Kazunobu, 3,655,018.
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- Ota, Masanori; and Yoshikawa, Seishiro, 3,649,647.
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Ito, Akihiko; Nakase, Yoshiaki; Kojima, Katsumi; Yoshida, Masaru; Iwai, Tadashi; Hayashi, Koichiro; and Okamura, Seizo, 3,677,922.
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Ogawa, Tokuo; Sakano, Tatsumi; and Okamura, Shigeyoshi, 3,684,061.
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Takigawa, Tamekichi, 3,658,292.
- Okamura, Yasuhiro: *See—*
Ishida, Kinyu; and Okamura, Yasuhiro, 3,666,154.
- Okanagan Helicopters Ltd.: *See—*
Cook, Lionel H. J., 3,656,796.
- O'Kane, Daniel F.: *See—*
Burns, Gerald; Giess, Edward A.; and O'Kane, Daniel F., 3,640,865.
- Okaniwa, Tokio: *See—*
Ishibashi, Keijiro; Okaniwa, Tokio; Hattori, Atsushi; and Arai, Masetsu, 3,702,805.
- Okano, Atsuji: *See—*
Yamamura, Yuichi; Fujii, Setsuro; Okano, Atsuji; Hirata, Miyoshi; Abiko, Yasushi; Inaoka, Masato; Noroi, Reimei; Iwamoto, Mashiro; Funabashi, Shoichi; and Kaito, Takeo, 3,699,149.
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Kinjo, Hisao; Iwabuchi, Yoshitaka; Takashima, Seiichi; Kato, Takotoshi; and Okano, Keigo, 3,641,278.
- Wada, Yoshiyo; Kinjo, Hisao; and Okano, Keigo, 3,679,822.
- Okano, Kenji: *See—*
Ide, Fumio; Okano, Kenji; and Deguchi, Seiji, 3,644,249.
- Ide, Fumio; Okano, Kenji; and Deguchi, Seiji, 3,644,250.
- Okano, Shigeru: *See—*
Fukumura, Masataka; Shimago, Kozo; Okano, Shigeru; Nakatani, Hiroshi; and Hesaka, Kenji, 3,666,756.
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Minami, Noriaki; Okawa, Tamoutu; and Iizima, Yoshiomi, 3,635,155.
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Nihira, Shohachi; Okawara, Yasuo; Naito, Takehisa; and Moriya, Mikio, 3,690,249.
- Okawara, Yoshimi: *See—*
Takahashi, Akira; Arata, Akimasa; and Okawara, Yoshimi, 3,659,832.
- Okaya Denki Sangyo Kabushiki Kaisha: *See—*
Miyasaka, Kiroku, 3,634,850.
- Sasaki, Kiyoshi; and Watanabe, Satoshi, 3,632,324.
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Ozawa, Goro; Kosaka, Kenzo; Adachi, Kiyoshi; Okaya, Tsutomu; and Ariki, Takeo, 3,656,214.
- Okazaki, Hiroshi: *See—*
Kono, Toyoo; Wada, Sakae; Shiba, Motoharu; Matsuno, Takashi; Yamamoto, Akihiro; Ogawa, Haruki; Okazaki, Hiroshi; Suzuki, Shigeho; and Noto, Takao, 3,632,746.
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Oga, Toshisaburo; and Okazaki, Ken, 3,664,888.
- Oga, Toshisaburo; and Okazaki, Ken, 3,704,176.
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Mochizuki, Mitsuaki, 3,638,303.
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Takeya, Kenji; Okazaki, Mutsutoshi; and Kobashi, Toshiyuki, 3,663,631.
- Takeya, Kenji; Okazaki, Mutsutoshi; and Kobashi, Toshiyuki, 3,663,632.
- Okazaki, Nobuo: *See—*
Mori, Yoichi; Okazaki, Nobuo; Ohtsuka, Kunio; and Iijima, Tetsya, 3,701,293.
- Okazaki, Tadayasu: *See—*
Sawaka, Jiro; Misaki, Tetsuo; Okabe, Masao; Yasui, Hajime; Hanada, Kazunori; and Okazaki, Tadayasu, 3,652,400.
- Okazaki, Takayoshi: *See—*
Ishihara, Toshio; Okazaki, Takayoshi; Endo, Tetsuzo; Koichi, Tanizawa; and Nakajima, Sataro, 3,653,826.
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Horie, Tatsuo; Fuchigami, Tatsuo; and Okazawa, Mitsuo, 3,660,366.
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Morris, Stephen J.; and O'Keefe, James M., 3,697,715.
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Handy, Robert M.; Angello, Stephen J.; Malmberg, Paul R.; and O'Keefe, Terence W., 3,679,497.
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Segel, Joseph M.; and Okell, Roy E., 3,693,315.
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Applequist, James E.; Johnson, James E.; Okers, Clifford B.; Daniels, Donald V.; James, Richard N.; Roberts, Daniel M.; and Guzy, Daniel James, 3,688,656.
- Oki Electric Industry Company, Limited: *See*—
Higashi, Tadao; Iwatat, Yoshinori; and Ohta, Masae, 3,638,143.
Kumagai, Shun; and Koikeda, Toshiaki, 3,663,408.
Kumagai, Shun; and Koikeda, Toshiaki, 3,664,943.
Sato, Kiichi; and Ogura, Isamu (said Ogura assor. to), 3,699,648.
- Oki, Kazuo: *See*—
Niwa, Shohei; Oki, Kazuo; Hayashi, Masaaki; and Morimoto, Yuukichi, 3,689,679.
- Oki, Toshihiko: *See*—
Saito, Toshiaki; and Oki, Toshihiko, 3,678,681.
- Oki, Toshikazu: *See*—
Kono, Kageaki; Oki, Toshikazu; Kitai, Atsuo; and Ozaki, Asaichiro, 3,663,370.
- Okii, Mitsuyoshi: *See*—
Tanaka, Katsunobu; Oshima, Kazuo; Tokoro, Yoh; and Okii, Mitsuyoshi, 3,654,079.
- Tanaka, Katsunobu; Ohshima, Kazuo; Tokoro, Yoh; and Okii, Mitsuyoshi, 3,698,997.
- Okimoto, Kiyomi: *See*—
Masaki, Mitsuo; Fukui, Kiyoshi; Ueda, Masahiro; and Okimoto, Kiyomi, 3,687,938.
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Sasabe, Kaoru; and Okino, Yoshihiro, 3,657,471.
- Okishima, Yoshio: *See*—
Yoshiyama, Ichiro; Okishima, Yoshiro; and Harada, Saburo, 3,633,144.
- Okita, Taisuke: *See*—
Usamoto, Teruyoshi; and Okita, Taisuke, 3,641,215.
- Okiyama, Toshiaki: *See*—
Takenaka, Haruo; Hiratsuka, Nobuo; and Okiyama, Toshiaki, 3,654,187.
- Takenaka, Haruo; Okiyama, Toshiaki; and Hiratsuka, Nobuo, 3,697,450.
- Okkerse, Cornelis: *See*—
Holscher, Ebo Jan; Okkerse, Cornelis; and Rozendaal, Adrianus, 3,649,563.
- Okkonen, Oliver G.: *See*—
Dykhouse, David B.; Okkonen, Oliver G.; and Zoodsma, Norman J., 3,690,332.
- Oklahoma Manufacturing Company: *See*—
Park, Robert G., 3,681,936.
- Oklahoma Publishing Company, The: *See*—
Pekrul, Roger K., 3,648,911.
- Oklahoma State University: *See*—
Bolie, Victor W., 3,644,676.
- Hughes, William L.; Allison, Hansel J.; and Ramakumar, Ramachandra G., 3,663,945.
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Downs, Robert F., 3,681,621.
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- Okruzhnov, Nikolai Nikolaevich: *See*—
Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov, Nikolai Nikolaevich; Purmalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev, Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and Rits, Leonid Borisovich, 3,683,683.
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Palmer, Ansell W.; and Earl, William C., 3,665,119.
- Oku, Masayuki: *See*—
Majima, Kanji; Takei, Kensuke; and Oku, Masayuki, 3,660,472.
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Miyata, Akira; Tomita, Chikayoshi; Suzuki, Akio; Okubo, Hideyo; and Nagakumi, Masahiko, 3,699,012.
- Miyata, Akira; Okubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, 3,701,677.
- Okubo, Howard S.: *See*—
Albertson, Clarence E.; and Okubo, Howard S., 3,647,722.
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Ooki, Nobugi; and Okubo, Kenji, 3,663,992.
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Nakajima, Tositaka; Okubo, Tomoyuki; Kobayashi, Manabu; and Yoshioka, Kimio, 3,663,943.
- Okuda, Hironori: *See*—
Ichiki, Toshinobu; Okuda, Hironori; and Arai, Keiji, 3,643,118.
- Okuda, Itsuki: *See*—
Nishimura, Tatsumi; Okuda, Itsuki; and Kado, Masaru, 3,686,191.
- Okuda, Jiro: *See*—
Muroga, Ko; Okuda, Jiro; Shimasaki, Nobuhiko; Terashima, Toshio; Maruyama, Yasushi; Kaneyasu, Hiroshi; Sohma, Kikuya; and Lovell, Clarence A., 3,649,767.
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Tamura, Masahiko; Iwama, Kiyonori; Asahina, Mitsuo; and Okuda, Kensuke, 3,646,280.
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Mitsui, Tsuneo; Nakayama, Keizo; Kobayashi, Tetsuo; and Okuda, Kenzo, 3,657,728.
- Okuda, Masahiro: *See*—
Kometani, Yutaka; Tatamoto, Masayoshi; Okuda, Masahiro; Okuno, Chuzo; Sakata, Shinsuke; Sakai, Shoji; and Oka, Masahiko, 3,642,754.
- Okuda, Taneaki: *See*—
Akashi, Tsuneo; Sugano, Izuru; Okuda, Taneaki; Onodo, Yoshihiro; and Tsuji, Toshiro, 3,655,841.
- Sugano, Izuru; Akashi, Tsuneo; Matsubara, Tetsujin; Kenmoku, Yoshihiro; and Okuda, Taneaki, 3,652,416.
- Okuda, Toshio: *See*—
Nagao, Nobuo; and Okuda, Toshio, 3,646,184.
- Okuda, Yoshihiko: *See*—
Kobayashi, Kazuo; Okuda, Yoshihiko; and Kawamoto, Sadao, 3,638,072.
- Okuda, Yukio: *See*—
Oda, Kenzo; Okuda, Yukio; Kurata, Naoji; Koshida, Kazuo; and Tsuchino, Masatoshi, 3,660,504.
- Sawano, Toshimi; Koike, Hiroshi; Kurata, Naoji; and Okuda, Yukio, 3,660,471.
- Okudaira, Hiromi: *See*—
Takahashi, Shogo; Yamada, Takayasu; and Okudaira, Hiromi, 3,703,365.
- Okudo, Hiroshi: *See*—
Naito, Kenji; Okudo, Hiroshi; Ogino, Katsuhiko; Tanaka, Michio; Kamatani, Yoshio; Mukai, Hiroshi; and Takeuchi, Tatsuro, 3,660,456.
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Fujiwara, Shigeru; Nagae, Kenji; and Okuhashi, Tomomi, 3,669,736.
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Maeda, Yutaka; and Hirata, Kinya, 3,641,409.
- Okumura, Akihiko: *See*—
Yamanaka, Ichiro; and Okumura, Akihiko, 3,705,517.

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Yoshida, Makoto; and Okumura, Akio, 3,644,518.
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Yoneda, Naoto; Ishihara, Teruo; Kobayashi, Tetsuji; Kondo, Yasuzo; Okumura, Kentaro; Kobayashi, Michio; and Nose, Takashi, 3,673,195.
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Adachi, Takeshi; and Okumura, Takatoshi, 3,652,775.
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Yamanouchi, Saburo; Yasuno, Kiyoshi; Yamatokohriyama, Kou Sota; and Okumura, Takuzo, 3,700,750.
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Arita, Shigeru; Kamei, Ichizo; and Okumura, Tomisaburo, 3,658,610.
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Menchikov, Leonid Petrovich; Kopylov, Kim Ivanovich; Okun, Evsei Lvovich; Smirnov, Vasily Mikhailovich; Gavrikov, Viktor Stepanovich; Fridman, Ilya Davidovich; Markov, Vyacheslav Evgenievich; and Sopin, Alexandr Alexandrovich, 3,651,301.
- Okuniewski, Vincent F.: *See*—
Flowers, Leonard B.; and Okuniewski, Vincent F., 3,670,160.
- Okuno, Chuzo: *See*—
Kometani, Yutaka; Tatamoto, Masayoshi; Okuda, Masahiro; Okuno, Chuzo; Sakata, Shinsuke; Sakai, Shoji; and Oka, Masahiko, 3,642,754.
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Mackawa, Hiroshi; and Yamauchi, Choji (said Mackawa assor. to), 3,671,274.
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Hori, Kunihiko; and Okuno, Keno, 3,631,779.
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- Okuno, Zenjiro: *See*—
Kasuya, Kazuhiko; Ohta, Wasaburo; and Okuno, Zenjiro, 3,640,751.
- Machida, Hazime; and Okuno, Zenjiro, 3,639,244.
- Machida, Hazime; Tsurugi, Akira; Okuno, Zenjiro; and Mizuno, Akinori, 3,657,130.
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Matsuda, Hideaki; Mori, Hisakazu; and Yamauchi, Fujio, 3,678,012.
- Matsuda, Hideaki; and Okamoto, Takanori, 3,687,860.
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Adachi, Toshio; Hayashi, Kiyohide; and Okura, Yukio, 3,700,026.
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Oshima, Yasuo; Nakazawa, Nobuhiko; Nagasaki, Senkichi; Naito, Takeo; Osada, Yasuaki; Okusa, Naoya; Inuaki, Akira; and Tanaka, Kazuyuki, 3,705,989.
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Komatsu, Koei; Okuya, Eitaro; Tomioka, Katsuyoshi; Sakai, Masato; Hayashi, Shigeki; Yasunaga, Hidetoshi; and Kogure, Akira, 3,669,943.
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Horie, Hajime; Hirano, Tadao; Okuyama, Hideo; and Ishimoto, Atumi, 3,632,419.
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Takenaka, Haruo; Okuyama, Hiroshi; Hibino, Noburo; and Ohta, Eiichi, 3,667,283.
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Lemper, Anthony L.; and Okuzumi, Yuzi, 3,661,856.
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Bergqvist, Mats Soren; Kallstrom, Olof Krister; Lagerberg, Per Goran Olof; and Okvist, Nils Axel Gunnar, 3,664,825.
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Mercier, Jacques H.; Copine, Fernand; and Corbellini, Carlo (said Copine and said Corbellini assors. to), 3,675,684.
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La Via, Anthony Laurence; O'Laughlin, Richard Lawrence; and Walton, Richard Wiegmann, 3,704,138.
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Easterly, Donald O.; and Olcott, Raymond E., 3,664,608.
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Hosey, William F., 3,670,931.
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Mottin, Ralph E.; and Oldani, Anthony L., 3,702,653.
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Zmuda, Daniel A., 3,662,575.
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Gutman, Nathan; Moser, Raymond L.; Oldenburg, Dorrance; and Sunderlin, Donald E., 3,669,161.
Gutman, Nathan; and Oldenburg, Dorrance, 3,688,822.
Moser, Raymond L.; Oldenburg, Dorrance; and Sunderlin, Donald E., 3,687,023.
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Trost, Allen J.; and Oldershaw, Reginald W., 3,663,764.
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Uitenbroek, Gerard, 3,661,652.
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Griffith, Robert L.; and Oldham, Ira B., III, 3,668,631.
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Meyers, Benjamin F.; and Oldis, John E., Jr., 3,704,502.
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Bennett, John E.; and O'Leary, Kevin J., 3,677,975.
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Rauch, Francis Clyde; Murray, Michael Albert; and O'Lenick, Richard Vincent, 3,644,142.
- Olenin, Jury Leonidovich: *See—*
Petrov, Vitaly Ivanovich; Ivanov, Alexandr Nikolaevich; Olenin, Jury Leonidovich; Eller, Arnold Oskarovich; Butuzov, Anatoly Akimovich; Basin, Abram Moiseevich; Starobinsky, Vladimir Borisovich; Ratner, Efim Rafailovich; and Potapov, Oleg Fedorovich, 3,659,542.
- Olenzak, Albert T.: *See—*
Thompson, Sheldon L.; Kress, Rene F.; Olenzak, Albert T.; and Steinmetz, Ib, 3,666,657.
- Oler, Allen L., to Oler-Stringam Manufacturers, Ltd. Automatic bale stooker. 3,658,192, 4-25-72, Cl. 214-6.
- Oler-Stringam Manufacturers, Ltd.: *See—*
Oler, Allen L., 3,658,192.
- Oles, Edward J., Jr.: *See—*
Hamilton, Colin B.; and Oles, Edward J., Jr., 3,671,407.
- Oles, Herbert E.: *See—*
Fierle, Robert J.; Mott, James A.; Oles, Herbert E.; and Reed, George A., 3,688,689.
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Erteszek, Jan J., 3,662,760.
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Fox, Jack N.; Hansen, Ned P.; Olich, Eugene E.; Guenther, Ralph W.; and Rubinstein, Herbert J., 3,660,231.
- Olich, Jack M.: *See—*
Herron, Rand E.; and Olich, Jack M., 3,695,812.
- Olin Chemical Co., Inc.: *See—*
Breuer, Herman, 3,635,692.
- Olin Corporation: *See—*
Alyea, Jerrold M., 3,632,457.
Andrew, Eugene A.; and Halverson, Henry J., 3,679,782.
Badali, Joseph A., 3,657,960.
Bakoleidis, Andrew G., 3,675,838.
Bakoleidis, Andrew G., 3,690,536.
Benson, Raymond E., 3,643,645.
Boudakian, Max M., 3,703,521.
Brandt, William L., 3,638,451.
Brunelle, Lawrence J., 3,659,768.
Capuano, Italo A., 3,704,097.
Caule, Elmer J., 3,677,828.
Caule, Elmer J.; Sperry, Philip R.; Pryor, Michael J.; and Ford, James A., 3,698,964.
Clarke, Gail H., Jr.; and Barnowski, Guilford Henry G., Jr., 3,705,857.
Cooper, Roy M., 3,707,453.
Dean, Sheldon W., 3,681,019.
Dean, Sheldon W., 3,698,932.
Doerr, Richard L.; and Fuzesi, Stephen, 3,692,880.
Early, Robert M.; and Raes, Maurice C., 3,674,718.
Eichelman, George H., Jr., 3,653,980.
Eichelman, George H., Jr., 3,656,945.
Ence, Elmars, 3,640,779.
Ence, Elmars, 3,698,965.
Fabiano, Leonard A., 3,668,087.
Faust, John P., 3,669,894.
Finch, Richard W.; and Nichols, Willard Alan, 3,660,966.
Fister, Julius C., Jr., 3,705,023.
Fuzesi, Stephen; and Lapkin, Milton, 3,674,717.
Fuzesi, Stephen; and Lapkin, Milton, 3,699,060.
Haughwitz, Rudiger D.; and Uhooh, John, Jr., 3,634,438.
Haughwitz, Rudiger D., 3,660,412.
Haughwitz, Rudiger D.; and Uhooh, John, Jr., 3,694,553.
Henning, Robert W., 3,698,115.
Johnson, James T.; and Smith, Lester E., 3,642,304.

- Johnson, James T., 3,655,217.
- Johnson, James T., 3,663,036.
- Kaufman, Charles W., 3,705,943.
- Keith, Norval A., 3,659,326.
- Keith, Norval A., 3,667,266.
- Keith, Norval A., 3,706,246.
- King, John B., 3,668,449.
- Kober, Ehrenfried H.; and Hammond, Philip D., 3,657,265.
- Kwasnik, Herbert R.; Sieckhaus, John F.; and Knollmueller, Karl O., 3,637,589.
- Lilley, Eugene A.; and Jones, Virgil J., 3,659,130.
- Long, Alfred; and Sawhill, Duane L., 3,639,284.
- McLain, Charles D., 3,661,568.
- McLain, Charles D., 3,639,119.
- McLain, Charles D., 3,671,225.
- Morris, Jack, 3,681,559.
- Morris, Jack, 3,689,727.
- Morris, Jack, 3,691,337.
- Obenland, Clayton O.; Papetti, Stelvio; and Smith, Hampton D., Jr., 3,674,853.
- Pitts, James J., 3,661,809.
- Pitts, James J.; and Scott, Peter H., 3,697,456.
- Pryor, Michael J.; Shapiro, Stanley; Tyler, Derek E.; and Shabarack, John, 3,676,088.
- Pryor, Michael J.; and Popplewell, James M., 3,676,292.
- Ramsay, Marcus, 3,680,241.
- Raymond, Maurice A., 3,640,968.
- Ready, William C.; Puig, John E.; and Van Leuwen, Bruce G., 3,658,972.
- Rigsby, James G., 3,652,218.
- Saeman, Walter C., 3,647,365.
- Sawhill, Duane L., 3,672,827.
- Sawyer, Arthur W.; and Csejka, David A., 3,635,825.
- Schultes, Hermann, 3,700,252.
- Shive, Richard A., 3,697,236.
- Shum, John, Jr., 3,675,417.
- Smith, Eric, 3,636,027.
- Smith, Eric, 3,636,028.
- Smith, Eric, 3,636,029.
- Smith, Lester E., 3,643,698.
- Speed, Sidney E., 3,676,071.
- Sperry, Philip R.; and Gullotti, Damian V., 3,642,542.
- Turley, Richard J., 3,636,061.
- Turley, Richard J., 3,676,532.
- Turley, Richard J., 3,707,586.
- Valyi, Emery I., 3,666,006.
- Van Dyck, Kenneth A.; King, Phillip W.; and Stephenson, Charles F., 3,635,372.
- Vercoglio, John W., 3,673,845.
- Wallace, Baird; and Smith, Philip E., Jr., 3,680,863.
- Wieser, Peter F.; and Dore, James E., 3,676,111.
- Wilkaitis, Norman J., 3,648,615.
- Winter, Joseph, 3,664,890.
- Winter, Joseph, 3,707,084.
- Yungbluth, Russell L., 3,701,876.
- Zocco, Natale C.; and Cohen, Stanley I., 3,650,993.
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- Olin Mathieson Chemical Corporation: *See—*
Alexander, Roy P.; and Schroeder, Hans Juergen A., 3,637,836.
Barocca, Aldo J.; and Benedict, Ralph H., 3,678,856.
Breuer, Herman, 3,632,333.
Breuer, Herman, 3,667,930.
Burne, Frederick A., 3,656,226.
Churchill, John W.; Kober, Ehrenfried H.; and Scott, Peter H., 3,639,482.
Dolomont, Allan A., 3,676,309.
Ford, James A.; Saunders, Stuart R.; Caule, Elmer J.; and McLain, Charles D., 3,646,946.
Hadden, Edward H., 3,640,081.
Haring, Robert C., 3,637,865.
Holliday, Robin D., 3,661,736.
Hurley, Thomas J., Jr.; and Robinson, Martin A., 3,654,279.
Knopp, Walter V., 3,652,259.
Kober, Ehrenfried H.; and Schnabel, Wilhelm J., 3,632,620.
Kober, Ehrenfried H.; Schnabel, Wilhelm J.; and Gardner, Strong K., 3,635,947.
Kober, Ehrenfried H.; and Ottmann, Gerhard F., 3,636,104.
Kober, Ehrenfried H.; and Schnabel, Wilhelm J., 3,657,308.
McDonnell, Thomas F.; and Coffee, Ralph E., 3,702,272.
Moehlman, Vernon C.; and Klein, Robert J., 3,669,023.
Papetti, Stelvio, 3,703,359.
Pryor, Michael J.; and Anthony, William H., 3,658,600.
Pryor, Michael J.; and Anthony, William H., 3,674,569.
Pryor, Michael J.; and Anthony, William H., 3,676,113.
- Rao, Velliyur Nott Padmanabha; Scott, John A.; and Surowiecki, Benjamin M., Jr., 3,674,827.
- Robinson, Martin A.; and Hurley, Thomas J., Jr., 3,644,327.
- Robson, Homer L., 3,635,837.
- Sawyer, Arthur W.; and Csejka, David A., 3,637,794.
- Schroeder, Hansjuergen A.; and Semenuk, Nick S., 3,634,505.
- Smith, Eric, 3,632,827.
- Smith, Eric; and Kober, Ehrenfried H., 3,637,785.
- Smith, Eric, 3,637,786.
- Smith, Eric, 3,644,460.
- Smith, Eric; and Kober, Ehrenfried H., 3,644,462.
- Smith, Eric, 3,689,520.
- Thorne-Thomsen, Thomas, 3,635,501.
- Trotz, Samuel I.; Hurley, Thomas J., Jr.; and Kober, Ehrenfried H., 3,660,458.
- Winter, Joseph, 3,634,926.
- Olindo, Santino: *See—*
Carraro, Giorgio; Del Vesco, Adriano; and Olindo, Santino, 3,686,299.
- Olinkraft, Inc.: *See—*
Graser, Earl J., 3,674,137.
Graser, Earl J., 3,698,550.
Graser, Earl J., 3,698,625.
Harrelson, Glen R., 3,680,765.
Hudson, Doyle R., 3,664,659.
Hudson, Doyle R., 3,698,451.
Sherman, Earle C., 3,664,088.
- Oliva, William Emil. Disposable culture media container. 3,702,806, 11-14-72, Cl. 195-139.000.
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Gabrielsen, Rolf S.; and Olivares, Ismael A., 3,672,896.
Gabrielsen, Rolf S.; and Olivares, Ismael A., 3,690,872.
Gabrielsen, Rolf S.; and Olivares, Ismael A., 3,700,442.
- Olivari, Humbert, to Eastern Products Corporation. Telescoping drapery rod construction. 3,643,288, 2-22-72, Cl. 16-96.
- Olivei, Alfredo: *See—*
Gassino, Teresio; and Olivei, Alfredo, 3,702,001.
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- Oliver, Charles R.: *See—*
Bujnowski, Raymond S.; and Oliver, Charles R., 3,680,818.
- Oliver, Claudio F. Multipurpose aircraft. 3,632,064, 1-4-72, Cl. 244-13.
- Oliver, Donald S., to Itek Corporation. Facsimile system utilizing pre-scan detection of indicia. 3,670,099, 6-13-72, Cl. 178-6.
- Oliver, Donald W.: *See—*
Begany, Albert J.; Ledig, Kurt W.; Oliver, Donald W.; and Wendt, Gerhard R., 3,642,842.
Wendt, Gerhard R.; and Oliver, Donald W., 3,707,479.
- Oliver, Evan M.: *See—*
Mayer, Edward H.; and Oliver, Evan M., 3,677,834.
- Oliver, Gene L., to Eastman Kodak Company. Photographic silver halide emulsion containing a methine dye. 3,652,284, 3-28-72, Cl. 96-84.
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- Oliver, Helmut. Garment with a removable secret pocket flap. 3,688,315, 9-5-72, Cl. 2-252.000.
- Oliver, James L.: *See—*
Meacham, George B. K.; and Oliver, James L., 3,685,499.
- Oliver, James T.: *See—*
Freter, Kurt; Gotz, Manfred; Oliver, James T.; and Zeile, Karl, 3,635,974.
- Oliver, Jay Thomas, to Formica Corporation. Decorative laminate surfaced with a transparent film of polyvinyl fluoride which film is temporarily covered with a transparent film of nylon. 3,677,876, 7-18-72, Cl. 161-165.000.
- Oliver, John P.: *See—*
Welch, Robert W., Jr.; Bolton, George H.; Oliver, John P.; and Wedel, Alfred W., 3,658,366.
- Oliver, Joseph J.: *See—*
Bushnell, David; Fuller, Roger L.; and Oliver, Joseph J., 3,641,569.
Fuller, Roger L.; Kaye, Robert K.; Oliver, Joseph J.; and Rood, William H., 3,646,580.
- Oliver, Joseph R.: *See—*
Fletcher, Ralph A.; and Oliver, Joseph R., 3,655,243.
Fletcher, Ralph A.; and Oliver, Joseph R., 3,677,258.
- Oliver, Keith H.; and Taylor, Donald, to Celmac Plasclip Limited. Support spacers for concrete reinforcement rods. 3,694,989, 10-3-72, Cl. 52-687.000.
- Oliver, Kenneth L., to Sperry Rand Corporation. Control stick transducer. 3,676,818, 7-11-72, Cl. 338-2.000.
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Oliver, Louise Inez. Compact file for storing papers. 3,659,703, 5-2-72, Cl. 206-1.
 Oliver Machinery Company: *See—*
 Davis, John R.; and Platteschorre, Kornelis, 3,707,423.
 Oliver, Maywood. Banjo having combination banjo body and tone rings. 3,677,125, 7-18-72, Cl. 84-271.000.
 Oliver, Michael J. Grounding electrical device and box. 3,697,924, 10-10-72, Cl. 339-14.00r.
 Oliver, Rene A.: *See—*
 Fauran, Claude P.; Raynaud, Guy M.; Oliver, Rene A.; and Douzon, Colette A., 3,641,036.
 Fauran, Claude P.; Raynaud, Guy M.; Oliver, Rene A.; and Douzon, Colette A., 3,655,687.
 Oliver, Richard M., to Combustion Engineering, Inc. Mechanical tube expander. 3,635,073, 1-18-72, Cl. 72-393.
 Oliver, Robert E.: *See—*
 United States of America, National Aeronautics and Space Administration, 3,705,406.
 Oliver, Robert K.; and Ford, George L., to Union Oil Company of California. Method of using a coke preheater. 3,677,533, 7-18-72, Cl. 263-52.000.
 Oliver, Robert L.: *See—*
 United States of America, National Aeronautics and Space Administration, 3,654,036.
 Oliver, Robert P., to American Chain & Cable Company, Inc. Signaling mechanism for gauges. 3,683,135, 8-8-72, Cl. 200-56.00r.
 Oliver, Ronald R.: *See—*
 Collie, Stafford D.; and Oliver, Ronald R., 3,658,217.
 Oliveto, Eugene Paul: *See—*
 Hajos, Zoltan George; and Oliveto, Eugene Paul, 3,644,429.
 Olivetti, Ing., C., & C., S.p.A.: *See—*
 Albrile, Walter, 3,651,913.
 Albrile, Walter, 3,681,940.
 Antonietto, Bruno; and Pagella, Elio, 3,691,899.
 Bartocci, Antonio, 3,678,483.
 Bartocci, Antonio S., 3,654,620.
 Becchi, Raffaele, 3,651,916.
 Bellis, Carlo, 3,645,439.
 Beneria, Giovanni Bessolo, 3,702,750.
 Bovio, Ilario, 3,683,800.
 Brescia, Riccardo; and Montanari, Lucio, 3,641,568.
 Bretti, Franco; and Gilardi, Emilio, 3,646,551.
 Bretti, Franco, 3,677,385.
 Bretti, Franco, 3,706,367.
 Brunialti, Bruno; and Zaffignani, Giovanni, 3,701,841.
 Cerutti, Giovanni; and Cortona, Alessandro, 3,659,799.
 Cerutti, Giovanni; Costa, Armando; and Cortona, Alessandro, 3,682,414.
 Cortona, Alessandro; and Musso, Pietro, 3,637,061.
 Cortona, Alessandro; and Calano, Giuseppe, 3,641,269.
 Cortona, Alessandro; Musso, Pietro; Saltini, Fabrizio; and Fiorenza, Giorgio, 3,641,317.
 Cortona, Alessandro; and Musso, Piero, 3,653,482.
 Cortona, Alessandro; and Musso, Piero, 3,653,483.
 Costa, Armando; and Cerutti, Giovanni, 3,707,262.
 Dalmasso, Claudio, 3,673,309.
 de Sandre, Giovanni; and Subrizi, Angelo, 3,636,523.
 de Sandre, Giovanni; and Garziera, Gastone, 3,641,329.
 de Sandre, Giovanni, 3,645,441.
 de Sandre, Giovanni, 3,660,825.
 Engels, Walter, 3,659,472.
 Fantoni, Giuseppe, 3,640,147.
 Fedrigo, Renzo, 3,684,146.
 Fedrigo, Renzo, 3,695,130.
 Ferroglio, Luigino, 3,643,022.
 Fussel, Rudi, 3,656,173.
 Garetto, Bruno, 3,647,043.
 Gassino, Teresio, 3,692,167.
 Gassino, Teresio; and Olivei, Alfredo, 3,702,001.
 Giolitti, Nicola, 3,674,201.
 Giolitti, Nicola; and Daly, Dante, 3,674,202.
 Joel, Henry G., 3,702,930.
 Kaminstein, Bernard, 3,648,603.
 Kaminstein, Bernard, 3,648,608.
 Mazzone, Claudio, 3,662,903.
 Menicanti, Adriano; and Oberto, Giacomo, 3,664,478.
 Olivei, Alfredo; and Forentino, Guido, 3,636,470.
 Ollero, Giorgio, 3,631,945.
 Ollero, Giorgio, 3,640,397.
 Perotto, Pier Giorgio, 3,707,715.
 Pierucca, Vincenzo, 3,675,753.
 Piazza, Bruno, 3,640,216.
 Pomella, Piero; Baratto, Elia; and Lauro, Luciano, 3,696,398.
 Ponzano, Gian Luigi, 3,707,214.
 Rasoir, Michelangelo, 3,667,305.
 Ricciardi, Giuseppe; and Sandrone, Bruno, 3,646,268.
 Saltini, Fabrizio, 3,641,508.
 Saltini, Fabrizio; and Eccettuato, Vittorio, 3,691,531.
 Salto, Rinaldo; and Roano, Domenico, 3,696,906.

Serra, Primo, 3,684,303.
 Serracchioli, Francesco; and Bartocci, Antonio, 3,648,251.
 Serracchioli, Francesco; and Restivo, Francesco, 3,678,179.
 Taddei, Romano, 3,634,832.
 Taddei, Romano, 3,689,893.
 Trebbien, Allen R., 3,665,981.
 Van Dam, Max; and Yung, Diana S. Y., 3,661,879.
 Olivetti-General Electric S.p.A.: *See—*
 Bertolini, Gianni; and Vinsani, Mario, 3,696,254.
 Olivier, James P.: *See—*
 Morris, Horton H.; Olivier, James P.; and Ross, Sydney, 3,659,708.
 Morris, Horton H.; and Olivier, James P., 3,660,134.
 Morris, Horton H.; Olivier, James P.; and Prescott, Paul I., 3,697,474.
 Olivier, Kenneth L.: *See—*
 Booth, Frank B.; Fenton, Donald M.; and Olivier, Kenneth L., 3,644,446.
 Olivieri, George, 30% to Rowan, Thomas M. Display device. 3,706,149, 12-19-72, Cl. 40-106.220.
 Olivotto, Vanfrido. Conveyor devices. 3,670,866, 6-20-72, Cl. 198-33.0ac.
 Olivotto, Vanfrido. Apparatus for collecting glass tubes at the end of a production line. 3,670,904, 6-20-72, Cl. 214-1.00p.
 Olivotto, Virgilio. Apparatus for grinding elongated rolling-up material, particularly metal wire. 3,633,318, 1-11-72, Cl. 51-90.
 Oliwa, Joseph E.: *See—*
 Reeves, John R.; and Oliwa, Joseph E., 3,684,937.
 Oljunin, Vasily Vasilievich: *See—*
 Rodin, Roman Andrianovich; and Oljunin, Vasily Vasilievich, 3,652,335.
 Olkers, Alfred H. Roller bearing arrangement for railroad car truck. 3,695,739, 10-3-72, Cl. 308-211.000.
 Olkhovsky, Jury Fedorovich: *See—*
 Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
 Olkowski, William. Horseshoe catapulting apparatus having a remote control feature. 3,690,660, 9-12-72, Cl. 273-101.000.
 Olland, Frederik Walraven, to Olland Industries- en Handelmaatschappij N.V. Filtering device for preparing drinks. 3,662,675, 5-16-72, Cl. 99-289.000.
 Olland Industries- en Handelmaatschappij N.V.: *See—*
 Olland, Frederik Walraven, 3,662,675.
 Ollecaro, Giorgio, to Olivetti, Ing., C., & C., S.p.A. Speed changing device for a rotary member. 3,631,945, 1-4-72, Cl. 192-3.51.
 Ollecaro, Giorgio, to Olivetti, Ing., C., & C., S.p.A. Tool holder for machine tools. 3,640,397, 2-8-72, Cl. 211-1.5.
 Olley, Norman Harry, 1/2 to Mte-Contractor (Components) Limited. Electrical relays. 3,675,168, 7-4-72, Cl. 335-198.000.
 Ollinger, James C.: *See—*
 Brown, Milton G.; Ollinger, James C.; and Sienkiewicz, Joseph E., 3,665,177.
 Nute, Ernest B., Jr.; and Ollinger, James C., 3,640,557.
 Ollinger, James C.; Wolf, Herbert R., Jr.; and Latour, Yves, to Armstrong Cork Company. Metal-clad acoustical ceiling tile and its manufacture. 3,695,395, 10-3-72, Cl. 181-33.00g.
 Ollivier, Louis A.: *See—*
 Sundblom, Leif J.; and Ollivier, Louis A., 3,669,108.
 Olmstead, Ival L.: *See—*
 Paul, Ben E.; and Olmstead, Ival L., 3,688,697.
 Olmstead, Merlin E., to Bendix Corporation, The. Pseudo-random frequency generator. 3,681,708, 8-1-72, Cl. 331-78.000.
 Olmsted, Bruce Chamberlin, Jr.: *See—*
 Davis, Donald William; Baloga, James Michael; and Olmsted, Bruce Chamberlin, Jr., 3,658,184.
 Olmsted, Dennis R.: *See—*
 Herger, Zoltan L.; and Olmsted, Dennis R., 3,679,841.
 Olmsted, Lester E.; Puetz, Eckard J.; and Rodgers, Warren, to N L Industries, Inc. Preparation of finely divided calcium silicate. 3,660,021, 5-2-72, Cl. 23-110.
 Olmsted, Peter B., to Olmsted Products Co. Hydraulic press. 3,635,152, 1-18-72, Cl. 100-269.
 Olmsted Products Co.: *See—*
 Olmsted, Peter B., 3,635,152.
 Olney, Edward S.: *See—*
 Jurczak, Henry E.; and Olney, Edward S., 3,682,659.
 Olney, Frederick D., Jr., to Honeywell Information Systems, Inc., mesne. Circuit board and method of making. 3,646,246, 2-29-72, Cl. 174-68.5.
 Olney, Frederick D., Jr., to Honeywell Information Systems Inc., mesne. Circuit board. 3,701,838, 10-31-72, Cl. 174-68.500.

Olney, Frederick Darwin, Jr., to Honeywell Information Systems Inc. Stitch control mechanisms and thread cutter. 3,701,329, 10-31-72, Cl. 112-252.000.
 Olofsson, Erik Herbert: *See—*
 Widl, Walter Herbert Erwin; and Olofsson, Erik Herbert, 3,638,142.
 Olofsson, Hans Kristoffer: *See—*
 Berle, Axel Gunnar; Nilsson, Lars Gunnar; and Olofsson, Hans Kristoffer, 3,689,197.
 Olofsson, Mans Olof: *See—*
 Sarnik, Stanislaw; and Olofsson, Mans Olof, 3,690,099.
 Olofsson, Nils Gunnar: *See—*
 Schullstrom, Sten Gunde; Freijid, Ingvar; Schader, Arne; and Olofsson, Nils Gunnar, 3,701,075.
 Olofsson, Sten: *See—*
 Ek Dahl, Hans; and Olofsson, Sten, 3,670,842.
 Olorenshaw, John Kenneth. Resilient type leg exercising device. 3,640,526, 2-8-72, Cl. 272-80.
 Olos Corporation: *See—*
 O'Learly, Robert E., 3,663,018.
 O'Loughlin, Bernard T.: *See—*
 Paramore, Edwin L.; O'Loughlin, Bernard T.; and Brown, Thomas L., 3,672,173.
 O'Loughlin, Francis A., to Thomas & Betts Corporation. Electrical connector. 3,644,875, 2-22-72, Cl. 339-97.
 O'Loughlin, Francis A., to Thomas & Betts Corporation. Wrapped wire connection. 3,649,743, 3-14-72, Cl. 174-84.
 O'Loughlin, Francis A.; and Herb, Philip J., to Thomas & Betts Corporation. Insulating piercing electrical connector. 3,697,669, 10-10-72, Cl. 174-84.00c.
 O'Loughlin, James J.: *See—*
 Vermillion, Herbert E.; and O'Loughlin, James J., 3,672,852.
 O'Loughlin, James P., to Raytheon Company. Power supply providing synchronized energization of a load. 3,675,115, 7-4-72, Cl. 323-6.000.
 Olowinski, Edward J., to Lord Corporation. Elastomeric reflex joint. 3,706,465, 12-19-72, Cl. 287-85.00r.
 Olschewski, Karl H.: *See—*
 Grimm, Werner; Olschewski, Karl H.; and Sack, Rolf E., 3,706,520.
 Olschewski, Karl-Heinz: *See—*
 Grimm, Werner; Hasserodt, Ulrich; and Olschewski, Karl-Heinz, 3,679,086.
 Olsen, Alf J., to Teletype Corporation. Cartridge, case and web. 3,655,145, 4-11-72, Cl. 242-197.
 Olsen, Benny; and Olsen, Zenny, to Allied Control Company, Inc. Rotary input/feedback mechanical servo valve. 3,695,295, 10-3-72, Cl. 137-625.690.
 Olsen, Douglas A.; and Osteras, A Jean, to Ashland Oil, Inc. Modification of surfaces with nitrenes. 3,666,536, 5-30-72, Cl. 117-106.00r.
 Olsen, George P.; Towle, Philip H.; and Baldwin, Richard H., to Standard Oil Company. Purification of aromatic polycarboxylic acids by catalytic reduction using prehumidified hydrogen. 3,639,465, 2-1-72, Cl. 260-525.
 Olsen, Gerald N.: *See—*
 Connett, Donald C.; Olsen, Gerald N.; and Lonnemo, Kurt R., 3,646,959.
 Olsen, Horace W.; and Bassett, Max, said Olsen assor. to said Bassett, Max. Dynamic pile driving shoes. 3,645,345, 2-29-72, Cl. 175-56.
 Olsen, Howard E.: *See—*
 Corrigan, Gordon D.; Lee, Donald H.; Olsen, Howard E.; and Petry, Robert J., 3,695,121.
 Olsen, Larry C.; Seeman, Stephen E.; Griffin, Bobby I.; and Ambrose, Charles J., to McDonnell Douglas Corporation. Nuclear battery. 3,706,893, 12-19-72, Cl. 310-3.00b.
 Olsen, Leif T., to Bruk, Boen. Process for the continuous production of laminated wood of the parquet type. 3,671,353, 6-20-72, Cl. 156-302.000.
 Olsen, Leif Thorvald, to Bruk, Boen. Device for the continuous production of laminated wood of the parquet type. 3,697,361, 10-10-72, Cl. 156-558.000.
 Olsen, Martin F. Emergency gangway for railroad cars. 3,666,045, 5-30-72, Cl. 182-20.000.
 Olsen, Olaf L. Ladder mounted paint pail support. 3,661,351, 5-9-72, Cl. 248-210.
 Olsen, Oscar: *See—*
 Fernandez, Raul O.; Cannito, Vincent F.; and Olsen, Oscar, 3,696,188.
 Olsen, Perry Charles; and Tang, Pak Chong, to RCA Corporation. Video blanking and sound muting circuit. 3,673,318, 6-27-72, Cl. 178-5.80r.
 Olsen, Perry Charles; and Tang, Pak Chong, to RCA Corporation. Video blanking and sound muting circuit employing grounded tuner switches. 3,679,819, 7-25-72, Cl. 178-5.80r.
 Olsen, Ralph A., to Ford Motor Company. Energy absorbing steering control system. 3,678,777, 7-25-72, Cl. 74-492.000.
 Olsen, Robert A., to American Hospital Supply Corporation. Base for adjustable chairs. 3,698,673, 10-17-72, Cl. 248-421.000.

Olsen, Robert A., to American Hospital Supply Corporation. Adjustable headrest for dental chairs. 3,698,765, 10-17-72, Cl. 297-396.000.
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 Olsen, Roger F.: *See—*
 Waner, Donald W.; Litzell, John E.; and Olsen, Roger F., 3,640,155.
 Olsen, Sydney, Alvin: *See—*
 Wood, Charles Drury, III; Olsen, Sydney, Alvin; and Potter, Jimmie Clinton, 3,680,287.
 Olsen, Thomas W., to Modern Decorating Company. Screen printing machine for decorating multi-speed articles. 3,654,856, 4-11-72, Cl. 101-40.
 Olsen, Thomas W., to Modern Decorating Company. Screen printing machine for round and flat articles. 3,659,523, 5-2-72, Cl. 101-38.
 Olsen, Zenny: *See—*
 Olsen, Benny; and Olsen, Zenny, 3,695,295.
 Olser, Ladislav: *See—*
 Bumbalek, Karel; and Olser, Ladislav, 3,678,522.
 Olshaske, Edward R.: *See—*
 Cole, William J.; and Olshaske, Edward R., 3,649,326.
 Olso, Mitsuo, to Fujitsu Limited. Discriminator circuit for recorded modulated binary data signals. 3,663,883, 5-16-72, Cl. 328-72.
 Olson, Albert W., to Libbey-Owens-Ford Company. Glazing unit. 3,656,471, 4-18-72, Cl. 126-200.
 Olson, Buford W., Sr.; Nelson, Eldrid W.; and Davidson, Albin A., to Olson, Chas., & Sons Incorporated. Convertible rail-highway vehicle. 3,653,332, 4-4-72, Cl. 105-215.
 Olson, Carl R.: *See—*
 Hartlein, Robert C.; and Olson, Carl R., 3,647,846.
 Hartlein, Robert C.; Kiles, James D.; Larson, Willard D.; and Olson, Carl R., 3,670,649.
 Olson, Charles Langdon; and Dischert, Robert Adams, to RCA Corporation. Automatic registration of color television cameras. 3,692,918, 9-19-72, Cl. 178-5.40m.
 Olson, Chas., & Sons Incorporated: *See—*
 Olson, Buford W., Sr.; Nelson, Eldrid W.; and Davidson, Albin A., 3,653,332.
 Olson, Clyde W., to Clyde Machines, Inc. Cargo container trailer transporter. 3,684,108, 8-15-72, Cl. 214-84.000.
 Olson, Danford H. B.B'-Discectoxy diethyl selenide useful as a miticide. 3,632,776, 1-4-72, Cl. 424-311.
 Olson, Danford H.; and Bailey, George M., to Marathon Oil Company. Process for the production of vinylically chlorinated olefins. 3,689,578, 9-5-72, Cl. 260-654.00r.
 Olson, David A.: *See—*
 Bang, Mogens W.; and Olson, David A., 3,670,286.
 Olson, David A., to Stackpole Carbon Company. Screw actuated linear motion potentiometer. 3,676,825, 7-11-72, Cl. 338-181.000.
 Olson, David T.: *See—*
 Bush, Stanley E.; Olson, David T.; and Saltus, George E., 3,649,761.
 Olson, Donald O. Flow restrictor with flushing means. 3,693,657, 9-26-72, Cl. 137-608.000.
 Olson, Earl J.: *See—*
 Pile, Frank L.; and Olson, Earl J., 3,653,707.
 Olson, Edgar C.: *See—*
 Miller, Roland E.; and Olson, Edgar C., 3,650,089.
 Olson, Edwin N. Coil winding apparatus. 3,635,260, 1-18-72, Cl. 140-92.2.
 Olson, Elmer B., 10% to Lee, Raymond, Organization, Inc., The. Cosmetic spray comb. 3,636,963, 1-25-72, Cl. 132-112.
 Olson, Floyd C.: *See—*
 Bard, John C.; and Olson, Floyd C., 3,679,434.
 Olson, Floyd C.; and Podesbradsky, Everett V., to Mayer, Oscar, & Co., Inc. Method of preparing a meat product having a texture similar to that of a primal cut and high polyunsaturated fat content. 3,649,300, 3-14-72, Cl. 99-107.
 Olson, Frank Wesley, Jr.; and Roberts, Karl Hutcheson, to Colgate-Palmolive Company. Oil and fluorescent dye containing luster imparting liquid shampoo. 3,658,985, 4-25-72, Cl. 424-70.
 Olson, Frank Wesley, Jr.; and Roberts, Karl Hutcheson, to Colgate-Palmolive Company. Shampoo. 3,697,452, 10-10-72, Cl. 252-545.000.
 Olson, Franklyn C. W., to United States of America, Navy. Current and turbulence meter. 3,695,103, 10-3-72, Cl. 73-170.00a.
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 Olson, Gene E.: *See—*
 Knudsen, Raymond G.; Price, James W.; and Olson, Gene E., 3,675,516.
 Olson, George E.: *See—*
 Connor, Donald H.; and Olson, George E., 3,692,436.
 Dissmeyer, Fred W.; and Olson, George E., 3,650,417.
 Dissmeyer, Fred W.; and Olson, George E., 3,650,418.
 Glassey, Stephen F.; and Olson, George E., 3,651,636.
 Olson, Gunnar E. Three-jaw machine vise. 3,633,900, 1-11-72, Cl. 269-156.

- Olson, Harlan D., to Cascade Corporation. Vacuum control valve. 3,648,972, 3-14-72, Cl. 251-339.
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- Olson, James R.: See—
Merril, Stewart H.; and Olson, James R., 3,694,359.
Wright, John F.; and Olson, James R., 3,676,350.
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Reines, Jose; and Olson, Walter L., 3,657,485.
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Bieri, Hans, 3,653,428.
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Fetter, John T.; and Olsson, Nils O., 3,696,681.
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Carlsson, Anders Kjell Johan; Jorgensen, Anders Ossian; Olsson, Olof Alarik; and Ziegler, Horst Robert Adolf, 3,659,050.
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Jacobson, Gunnar; and Olsson, Olof Bertil, 3,684,215.
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Bloomfield, David P.; and Olsson, William J., 3,649,360.
Buswell, Richard F.; Nicholas, Peter G.; and Olsson, William J., 3,664,873.
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Evans, Robert W.; Grimm, Richard C.; and Olstein, Myron A., 3,678,857.
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Lender, Adam; and Olzanski, Henry H. P., 3,633,105.
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Jachimowicz, Ludwik; Reasoner, Edwin W.; and Olzowski, Jerzy A., 3,662,091.
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- Olthoff, James A.: See—
Knell, Harvey A.; Olthoff, James A.; Scoggin, Barry A.; and Smith, Roger M., 3,706,143.
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Peterson, Richard H.; Finch, Robert A.; and Oltman, Bruce A., 3,683,096.
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Dermody, William J.; and Oltman, John E., 3,701,690.

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Malloy, John F.; Curry, Nolan A.; and Olton, Dirck J., 3,665,660.
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Deelman, Gerardus Jacobus, 3,639,874.
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Martyny, William C.; Miller, Victor W.; and Olwert, Ronald J., 3,706,895.
- Olympia, Frederick D.: See—
Clissem, Thomas A.; Duerr, Francis R.; and Olympia, Frederick D., 3,703,391.
- Olympia Oyster Company: See—
McMillin, David C., 3,701,338.
- Olympia Werke AG: See—
Bettin, Hubertus, 3,648,102.
- Bonleiner, Wolfgang; Chvatilsky, Kurt; and Hanke, Walter, 3,698,530.
- Folkens, Dieter, 3,651,915.
- Fuths, Gustav, 3,645,363.
- Glave, Horst Dieter, 3,703,230.
- Helmert, Helmut; Werner, Georg; and Rix, Albert, 3,664,480.
- Horst, Purr, 3,666,071.
- Kittel, Arthur; and Chvatilsky, Kurt, 3,643,772.
- Kittel, Arthur; Frank, Rudi; and Purr, Horst, 3,643,775.
- Kunst, Detlef, 3,700,088.
- Mankau, Werner; and Duddey, Werner, 3,658,165.
- Rodenbeck, Jorg, 3,636,271.
- Thevis, Paul; Schneider, Adolf; and Jakubaschk, Horst, 3,669,348.
- Thevis, Paul; and Schneider, Adolf, 3,693,871.
- van der Werff, Chien, 3,688,888.
- Werff, Chien Van Der, 3,658,162.
- Werner, Georg; and Kunst, Detlef, 3,696,907.
- Olympian Scoreboard Division, Metatronics Manufacturing Corporation: See—
Presnick, Michael C.; Penn, Everett; and Piorek, John, 3,683,357.
- Olympic General Products Proprietary Limited: See—
Grainger, John W., 3,684,606.
- Olympic Overseas, Inc.: See—
Montagu, Roland P., 3,704,540.
- Olympic Screw & Rivet Corporation: See—
Siebol, George, 3,657,957.
- Siebol, George; and Rippey, Dorian E., 3,680,202.
- Olympus Optical Co., Inc.: See—
Hayamizu, Yoshisada; Mori, Toshiyuki; and Murata, Rikizo, 3,637,282.
- Olympus Optical Co., Ltd.: See—
Fujii, Toru, 3,682,529.
- Fukami, Masaharu; and Mori, Toshiyuki, 3,670,721.
- Harada, Kenichi, 3,685,884.
- Ikeda, Yoshitsugi, 3,647,281.
- Kamachi, Shin-ichi, 3,697,761.
- Kawahara, Ichizo, 3,641,898.
- Kondo, Isao, 3,638,543.
- Kosaka, Shinya, 3,670,722.
- Matsuzaki, Soichiro; Sato, Masanobu; and Kato, Toshikazu, 3,643,562.
- Matumoto, Sakuzo, 3,686,766.
- Mori, Toshiyuki, 3,690,769.
- Motoyama, Kazuyasu; Sawaki, Ryoichi; and Nakamura, Takeaki, 3,696,217.
- Nakagawa, Jihei, 3,645,605.
- Ochiai, Kohei; and Kato, Kiyoakira, 3,653,309.
- Ouchi, Teruo, 3,703,169.
- Sato, Masaaki; and Saito, Shoichi, 3,666,203.
- Sato, Masaaki; and Saitou, Shiniche, 3,668,571.
- Sato, Masaaki, 3,702,907.
- Taira, Akio, 3,647,282.
- Takahashi, Nagashige; and Kinoshita, Kunio, 3,643,653.
- Takahashi, Nagashige, 3,669,098.
- Takahashi, Nagashige; and Oouchi, Teruo, 3,691,001.
- Tasaki, Toshio; and Fukao, Keiji, 3,637,283.
- Totsuka, Yasushi; and Kamachi, Shin-ichi, 3,649,820.
- Tsuda, Hiroshi, 3,633,482.
- Yuta, Koichi, 3,664,728.
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Collins, Reginald, 3,635,334.
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- O'Mant, Derrick Michael: See—
Foden, Frederick Roger; and O'Mant, Derrick Michael, 3,676,464.
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Booth, Dwight Allan, 3,672,059.
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Baker, Charles P., Jr., 3,702,024.
- Baranowski, Karl F.; and Barrio, Alexander, Jr., 3,696,692.
- Honeycutt, Don R., 3,641,880.
- Hsu, Yung Shing, 3,648,616.
- Hsu, Yung Shing; and Pomeroy, Raymond V., 3,678,808.
- Hurlburt, Joseph C.; McCarty, Horace G.; and Locati, Norman C., 3,698,167.
- Locati, Norman C.; and Edgerton, John Leslie, 3,641,751.
- Locati, Norman Carl, 3,651,626.
- Pomeroy, Raymond Visser, 3,658,229.
- Pomeroy, Raymond Visser, 3,670,942.
- Ritter, Ralph Kenneth; Pease, Charles C.; and Fay, Elliott J., 3,641,305.
- Skralskis, Edward P., 3,706,359.
- Tupper, Myron D.; and Hille, Arvin A., 3,674,220.
- Welsh, Robert Louis, 3,673,310.
- Welter, Gary D., 3,649,507.
- Omark-Winslow Aerospace Tool Co.: See—
Adams, Ralph D.; and Lopez, Efrain D., 3,691,696.
- Aydellott, Max M.; Beilfuss, Richard W.; and Borchert, Ernst, III, 3,680,262.
- Sheffer, Ralph L., Jr., 3,646,660.
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Hozumi, Yukio; Sonoyama, Yuzo; and Omata, Masaru, 3,682,873.
- O.M.C.S.A. Officine Meccaniche Cigardi S.p.A.: See—
Giuzza, Pietro, 3,703,863.
- OMEGA Louis Brandt & Frere S.A.: See—
Cleusix, Willy, 3,693,344.
- Cleusix, Willy, 3,695,035.
- Colomb, Marc, 3,662,534.
- Hetzl, Max, 3,663,894.
- Hetzl, Max, 3,691,754.
- Humbert, Jean; and Studer, Jean-Fred, 3,690,061.
- Leu, Francois J.; Tosin, Peter M.; and Werner, Ernst, 3,676,696.
- Raval, Gaston, 3,649,858.
- O'Mera, Thomas R.: See—
Myer, Jon H.; O'Mera, Thomas R.; and Richardson, John M., 3,700,907.
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Taylor, Laurence William; Town, Frank; and Omiotek, Emil, 3,631,681.
- Omlie, Donald E. Furniture construction. 3,663,059, 5-16-72, Cl. 297-440.
- Omnico Systems International Inc.: See—
Berrie, Robert W., 3,641,720.
- Omnific Research and Development Center, Inc.: See—
Lagier, Gary G.; and Fuess, Raymond L., 3,658,683.
- Omniform Incorporated: See—
Firnkas, Sepp, 3,691,708.
- Omnionics, Inc.: See—
Gioia, Gaspare L.; Switzer, Norris H.; and Willerton, John K., 3,672,608.
- Omnitech Inc.: See—
Galonek, Edward A., 3,691,565.
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- Newton, George R., 3,703,812.
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Yamamoto, Atsushi; Omori, Tairiku; and Yasui, Hiroshi, 3,647,629.
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Burtis, Wilson A.; and Omori, Thomas T., 3,664,446.
- Omori, Yasuo: *See—*
Tanizake, Mikio; Omori, Yasuo; and Sugihara, Jun., 3,637,506.
- O.M.P. Officine Meccanoplastiche di Precisione S.R.L.: *See—*
Gazzani, Renato, 3,672,234.
- Omron Tateisi Electronics Co.: *See—*
Endo, Tadao; and Hosika, Mituhisa, 3,652,983.
- Hatano, Isao; Kitajima, Kenichi; and Iwatani, Katsumi, 3,641,330.
- Hatano, Isao; Nagano, Akira; and Yosimoto, Kenzi, 3,705,298.
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- Iwamoto, Shunsuke; and Kawasaki, Ryohei, 3,675,195.
- Koga, Hirohumi; and Sato, Ryuichi, 3,701,062.
- Konisi, Kenzi; Iwatani, Katsumi; and Kakizono, Yukio, 3,657,526.
- Minami, Noriaki; Okawa, Tamoutu; and Iizima, Yoshiomi, 3,635,155.
- Miyagawa, Takashi; Matsuo, Shunsuke; and Matsumoto, Masanori, 3,665,166.
- Morita, Tadao; and Nagata, Masanori, 3,655,946.
- Nagano, Akira; Ninomiya, Nobukata; and Miura, Masatsugu, 3,683,370.
- Nagata, Masanori; and Mori, Masato, 3,641,315.
- Nagata, Masanori; and Fukushima, Kiyotaka, 3,644,716.
- Osaki, Keisuke; Egashira, Hiroshi; and Hayashi, Yasunori, 3,675,206.
- Shiki, Mitsuuyuki, 3,639,745.
- Tanaka, Ryohei, 3,639,894.
- Tanimura, Shigeru; Maejima, Norio; Yoshimura, Kiyokazu; and Hinoda, Seisuke, 3,639,867.
- Tateisi, Kazuma; Mizuta, Yukio; and Shizuya, Kyoto, 3,648,020.
- Todaka, Hideto; and Nakatani, Hisao, 3,652,982.
- Uekusa, Genzo; Tanimura, Shigeru; Higashi, Kazuhiro; and Sumoto, Takao, 3,679,949.
- Uekusa, Genzo; Tanimura, Shigeru; and Maejima, Norio, 3,707,686.
- Uryu, Sadayuki; and Ueda, Hiroshi, 3,688,254.
- Yaida, Koichi; and Aono, Shizuya, 3,639,905.
- Yamamoto, Mitaka; Uekusa, Genzo; Tanimura, Shigeru; and Maejima, Norio, 3,648,117.
- Yamamoto, Mitaka; and Nagata, Masanori, 3,653,480.
- Yamamoto, Mitaka; and Nagata, Masanori, 3,655,947.
- Yamamoto, Mitaka; Kawahara, Kazuhiro; and Morita, Tadao, 3,665,162.
- Omura, Etzou: *See—*
Miyazaki, Toshio; Omura, Etzou; Katakabe, Kyoku; Makita, Minoru; Iwase, Kenji; Tsutsumi, Hideo; Yotsumoto, Takashi; Ikeda, Fumiaki; Takashima, Yoshiro; Sueyoshi, Hiromu; and Maesaka, Tomio, 3,689,620.
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Jorgenson, Harry E.; and Hansen, Wayne W., 3,654,484.
- Onan Eastern Corporation: *See—*
Sia, Joseph B., 3,636,368.
- Onaya, Isamu: *See—*
Kashima, Takeshiro; and Onaya, Isamu, 3,662,568.
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Nikaido, Akira; Onda, Mitsuo; Nakajima, Fumio; Machida, Takayasu; and Sudo, Shunji, 3,668,488.
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McKinney, Joel D.; and Ondish, George F., 3,692,667.
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Beuther, Harold; Ondrey, John A.; and Swift, Harold E., 3,644,550.
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Bell, Ronald J.; and O'Neal, Edward C., 3,641,797.
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Richards, Bernadine J.; and O'Neil, Bernadette T., 3,633,215.
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Kibbel, William H., Jr.; and O'Neill Eugene T., 3,681,022.
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Becker, Floyd Kenneth; Dimmick, James Owen; Lewis, Theras Gordon; and O'Neill, John Francis, 3,668,318.
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Allen, Donald J.; and O'Neill, Joseph L., 3,678,163.
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Dorsch, Robert G.; and O'Neill, William M., 3,699,044.

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Benitez, Ramon; and Oneto, Augusto Luis, 3,688,465.
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Janssen, Peter Johannes Hubertus; and Ong, Kian Kie, 3,702,442.
- Ong, Sieling: *See—*
Feess, Erich; and Ong, Sieling, 3,671,181.
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Okorokov, Ivan Fedorovich; Bogdanov, Gorgy Porfirievich; Sorokin, Konstantin Alexandrovich; Onischenko, Anatoly Fedorovich; Ziborov, Pavel Efimovich; and Perstnev, Samuil Nisonovich, 3,705,559.
- Onischenko, Grigory Ivanovich: *See—*
Portyanko, Andrei Ivanovich; Lastovenko, Valentin Andreevich; Dudka, Viktor Vasilievich; Rodenko, Fedor Leontievich; Onischenko, Grigory Ivanovich; Vatkin, Adolf Semenovich; Pokusa, Alexei Alexandrovich; and Ruzin, Ivan Mikhailovich, 3,654,997.
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Furukawa, Junji; Saegusa, Takeo; Onishi, Akira; Ishikawa, Takao; Anzai, Shiro; Irako, Koichi; Narumiya, Tsuneaki; and Ishizuka, Yuzo, 3,649,607.
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Ohsumi, Yoshio; Matsunaga, Yoshiki; Ishida, Hiroshi; Onoda, Takeshi; Onishi, Masaru; Kasugai, Hiroshi; and Namiki, Tadao, 3,636,034.
- Sasaki, Toshiharu; Miyano, Ryuzo; and Onishi, Masaru, 3,697,173.
- Onishi, Masayoshi: *See—*
Adachi, Toshio; Onishi, Masayoshi; and Hayashi, Kiyohide, 3,671,655.
- Onishi, Takaharu: *See—*
Tamaru, Kenai; Onishi, Takaharu; and Soma, Mitsuuyuki, 3,660,028.
- Tamaru, Kenzi; Onishi, Takaharu; Soma, Mitsuuyuki; and Ichikawa, Masaru, 3,658,721.
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Toyooka, Tadao; Ueda, Hiromutsu; Nishida, Takeo; and Ono, Atsuo, 3,641,921.
- Toyooka, Tadao; Ueda, Hiromutsu; Nishida, Takeo; and Ono, Atsuo, 3,694,623.
- Ono, Hideo: *See—*
Higashide, Eiji; Hasegawa, Toru; Ono, Hideo; Asai, Mitsuko; Muroi, Masayuki; and Kishi, Toyokazu, 3,691,280.
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Honjo, Satoru; Watarai, Syu; and Ono, Hisatake, 3,704,119.
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Yamada, Shizuo; Ono, Isao; Abe, Hiroyuki; Kunihiro, Nobuko; and Tago, Kazuo, 3,686,350.
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Ikuo, Yorio; Okabayashi, Minoru; Ono, Keisuke; Mizugaki, Yoshikazu; and Hayashi, Juntaro, 3,674,129.
- Ono, Kunio: *See—*
Kanda, Kimio; and Ono, Kunio, 3,697,866.
- Kurose, Tadashi; Kagaya, Ryuichi; Ono, Kunio; and Kanda, Kimio, 3,689,828.
- Ono, Masayoshi: *See—*
Kawakami, Takaya; Kitamura, Toshinori; Ajichi, Yoshio; and Ono, Masayoshi, 3,706,949.
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Kobayashi, Fukashi; Ono, Mitsuaki; and Kuroe, Akio, 3,676,612.
- Sugaya, Hiroshi; Kobayashi, Fukashi; and Ono, Mitsuaki, 3,707,608.
- Yano, Osahiko; and Ono, Mitsuaki, 3,668,310.
- Ono, Mitsuzo: *See—*
Takahashi, Kenji; Yamamura, Toshio; Ono, Mitsuzo; and Eda, Korekiyo, 3,673,125.
- Ono, Naoya: *See—*
Hashimoto, Hiroshi; Satou, Takehide; Sudo, Kengo; and Ono, Naoya, 3,694,092.
- Ono, Shigeo: *See—*
Tsukamoto, Masaaki; Fujii, Tatsuo; and Ono, Shigeo, 3,675,179.
- Yamada, Takeo; and Ono, Shigeo, 3,693,518.
- Ono, Shigeo, to Nippon Kogaku K.K. Exposure measuring device for cameras provided with electronic shutter. 3,641,890, 2-15-72, Cl. 95-10.
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- Ono, Taisuke: *See—*
Yamada, Norio; Tanaka, Yoshimasa; Ono, Taisuke; and Ikejima, Yoritaka, 3,675,324.
- Ono, Takeo: *See—*
Sugano, Seiroku; Arai, Tomio; Hayami, Seinoshin; Watanabe, Sadao; Fujishiro, Shigeru; and Ono, Takeo, 3,689,372.
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Kawato, Tomoyoshi; Kusakabe, Takashi; and Ono, Toshiyuki, 3,648,008.
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- Ono, Yoshiaki: *See—*
Ohi, Reichi; Kondo, Tokiharu; Shirasu, Kazuo; and Ono, Yoshiaki, 3,707,375.
- Sato, Akira; Ueda, Hirozo; and Ono, Yoshiaki, 3,672,897.
- Ono, Yoshiyuki: *See—*
Nomura, Hirokazu; Mimura, Michio; and Ono, Yoshiyuki, 3,654,425.
- Onoda Cement Company, Limited: *See—*
Ikubo, Yuichi; Nishida, Takuji; and Furukawa, Yoshiki, 3,645,998.
- Nishi, Seiya; Oshio, Akira; and Eto, Kiyomitsu, 3,676,541.
- Nishi, Seiya; Oshio, Akira; and Kiyomitsu, Eto, 3,677,780.
- Uno, Tatsujiro; and Mochizuki, Masatoshi, 3,649,316.
- Onoda, Katsuhiro: *See—*

- Nakagiri, Masaru; Onoda, Katsuhiro; Igarashi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tooru, 3,702,466.
Nakanuma, Sho; Tsujide, Tooru; Wada, Toshio; Igarashi, Ryo; and Onoda, Katsuhiro, 3,665,423.
Wada, Toshio; Onoda, Katsuhiro; Igarashi, Ryo; Nakanuma, Sho; and Tsujide, Tooru, 3,646,527.
Onoda, Katsuhiro; Igarashi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tooru, to Nippon Electric Company, Limited. Three dimensional memory utilizing semiconductor memory devices. 3,651,490, 3-21-72, Cl. 340-173.
Onoda, Takeshi: See—
Ohsami, Yoshio; Matsunaga, Yoshiki; Ishida, Hiroshi; Onoda, Takeshi; Onishi, Masaru; Kasugai, Hiroshi; and Namiki, Tadao, 3,636,034.
Onoda, Yoshimitsu; and Tsuboi, Takashi, to Hitachi, Ltd. Motor system having thyristor commutator. 3,686,548, 8-22-72, Cl. 318-138,000.
Onodera, Yutaka: See—
Okada, Tsuneo; Onodera, Yutaka; Mitsuoka, Takeshi; Saito, Yukinori; Muto, Yoshio; Anayama, Takeshi; and Yasukochi, Ko, 3,691,046.
Tanaka, Eiichihiro; Onodera, Yutaka; Fukuda, Takeji; Yamashita, Tutomu; and Kuma, Shoji, 3,652,967.
Tanaka, Eiichihiro; Onodera, Yutaka; Fukuda, Takeji; Yamashita, Tutomu; Saito, Tetsuo; and Kumia, Shoji, 3,665,595.
Onodo, Yoshihiro: See—
Akashi, Tsuneo; Sugano, Izuru; Okuda, Taneaki; Onodo, Yoshihiro; and Tsuji, Toshiro, 3,655,841.
Onopchenko, Anatoli: See—
Murphy, Clarence R.; Onopchenko, Anatoli; Platt, John M.; and Seekircher, Richard, 3,644,499.
Onopchenko, Anatoli; Schulz, Johann G. D.; and Seekircher, Richard, to Gulf Research & Development Company. Process for oxidizing a 1,1-bis(alkylphenyl) alkane. 3,641,135, 2-8-72, Cl. 260-524.
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Onopchenko, Anatoli; Schulz, Johann G. D.; and Williamson, Roger C., to Gulf Research & Development Company. Process for preparing phenyl sulfone carboxylic acids. 3,676,488, 7-11-72, Cl. 260-524.00r.
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Onori, Bruno. Multi-shelved slide rack. 3,698,782, 10-17-72, Cl. 312-350,000.
Onoshima, Yoshio: See—
Hirota, Nobuyoshi; and Onoshima, Yoshio, 3,664,965.
Onoue, Fumio: See—
Watanabe, Tamotsu; and Onoue, Fumio, 3,667,676.
Onozaki, Jun: See—
Makino, Katsuo; Yamada, Yoshihiko; and Onozaki, Jun, 3,704,121.
Onozawa, Tatsugoro. Instantaneously ignitable solid fuel. 3,689,234, 9-5-72, Cl. 44-17,000.
Onozuka, Mitsu; and Iida, Kinji, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for the manufacture of dialkyltin diiodide from tin and alkyl iodide. 3,661,958, 5-9-72, Cl. 260-429.7.
Onsager, Olav T., to Halcon International, Inc. Cuprous halide and adiponitrile complexes. 3,644,453, 2-22-72, Cl. 260-438.1.
Onsager, Olav T., to Halcon International, Inc. Ferrous halide adiponitrile complexes. 3,644,455, 2-22-72, Cl. 260-439.
Onsager, Olav T., to Halcon International, Inc. Production of adiponitrile. 3,644,473, 2-22-72, Cl. 260-465.8.
Onsager, Olav T., to Halcon International, Inc. Production of adiponitrile. 3,644,474, 2-22-72, Cl. 260-465.8.
Onsager, Olav T., to Halcon International, Inc. Production of adiponitrile. 3,644,475, 2-22-72, Cl. 260-468.8.
Onsager, Olav T., to Halcon International, Inc. Preparation of adiponitrile. 3,644,476, 2-22-72, Cl. 260-465.8.
Onsager, Olav T., to Halcon International, Inc. Production of adiponitrile. 3,644,477, 2-22-72, Cl. 260-465.8.
Onsager, Olav Torgeir, to Halcon International, Inc. Production of adiponitrile. 3,671,567, 6-20-72, Cl. 260-465.80d.
Onsager, Olav Torgeir, to Halcon International, Inc. Production of adiponitrile. 3,671,568, 6-20-72, Cl. 260-465.80d.
Onsager, Olav-Torgeir: See—
Bergem, Normann; Blindheim, Ulf; Onsager, Olav-Torgeir; and Wang, Hagbarth, 3,652,687.
Onstott, Edward D. Sextant clock. 3,699,761, 10-24-72, Cl. 58-2,000.
Ontario Development Corporation: See—
Ratowsky, Simon, 3,705,544.
Ontario Development Corporation, meane: See—

- Ratowsky, Simon, 3,668,997.
Ontario Paper Company Limited, The: See—
Bulat, John Ivan; and Jaun, Rudolph, 3,647,092.
Ontario Research Foundation: See—
Sierra, Gonzalo, 3,697,222.
Onufer, George R., to Russell, Burdall & Ward Bolt and Nuts Co. Fastener and method of forming same. 3,638,700, 2-1-72, Cl. 151-69.
Onufer, George R., to Russell, Burdall & Ward Bolt and Nut Co. Fastener. 3,693,685, 9-26-72, Cl. 151-21.00c.
Onuma, Sadao: See—
Ando, Satoshi; Tanaka, Yusaku; Onuma, Sadao; and Ogata, Fumimaro, 3,642,568.
Ooba, Shigehiro: See—
Fujinami, Akira; Ozaki, Toshiaki; Horiuchi, Fukashi; Yamamoto, Sigeo; Akiba, Keiichi; Tanaka, Katsutoshi; Ooba, Shigehiro; Oishi, Tadashi; Nodera, Katsuji; and Kameda, Nobuyuki, 3,668,217.
Ooba, Narayanlal D.: See—
Tomalia, Donald A.; and Ooba, Narayanlal D., 3,697,524.
Oohara, Katsunobu: See—
Matsuo, Takehiko; Tosaka, Umi; Hasegawa, Tetsuo; Oohara, Katsunobu; and Ihara, Takashi, 3,652,315.
Oohara, Saburo; Amemiya, Koitsuro; Nishijima, Yasushi; Fukushima, Mitsuyoshi; and Shimizu, Kunio, to Kanegafuchi Boseki Kabushiki Kaisha. Multi-layered artificial leather material. 3,677,871, 7-18-72, Cl. 161-84.000.
Ooishi, Tadashi: See—
Fujinami, Akira; Horiuchi, Fukashi; Nodera, Katsuji; Ozaki, Toshiaki; Yamamoto, Sigeo; and Oishi, Tadashi, 3,636,044.
Fujinami, Akira; Ozaki, Toshiaki; Horiuchi, Fukashi; Yamamoto, Sigeo; Akiba, Keiichi; Tanaka, Katsutoshi; Ooba, Shigehiro; Oishi, Tadashi; Nodera, Katsuji; and Kameda, Nobuyuki, 3,668,217.
Sato, Katsumi; Nakamura, Takashi; Nakamura, Masaru; Hirasawa, Kazuo; Hamada, Mitsuo; Takahashi, Kenji; Yamashita, Masaaki; Ozaki, Toshiaki; Yamamoto, Sigeo; Oishi, Tadashi; Fujinami, Akira; Horiuchi, Fukashi; and Nodera, Katsuji, 3,703,526.
Tsuchiya, Hiroshi; Kunio, Nishinomiya-Shi; Kimura, Akio; Kawano, Suminori; Fujimoto, Keimei; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Tanaka, Katsutoshi; Oishi, Tadashi; and Takeda, Hisami, 3,670,057.
Ooka, Takayuki: See—
Watanabe, Shozo; Ooka, Takayuki; Takemura, Susumu; and Arakawa, Motohiko, 3,653,981.
Ooki, Nobugi; and Okubo, Kenji, to Nippon Seiko Kabushiki Kaisha. Loading mechanism applied to the drafting mechanism of a spinning machine. 3,663,992, 5-23-72, Cl. 19-281.
Ooki, Nobugi, to Nippon Seiko Kabushiki Kaisha. Mechanism for supporting an apron draft mechanism of a spinning machine. 3,665,559, 5-30-72, Cl. 19-254.
Oomen, Johannes A. F., to Avco Corporation. Piezo-electric driven variable capacitor. 3,646,413, 2-29-72, Cl. 317-246.
Oomen, Johannes A. F., to Avco Corporation. Digital reflection coefficient detector. 3,704,409, 11-28-72, Cl. 32-57.00r.
Oomen, Joris Jan Cornelis; and Visser, Jan Adrianus, to U.S. Philips Corporation. Stabilizing of aqueous solutions of potassium persulphate. 3,644,150, 2-22-72, Cl. 136-137.
Ooms, Owen J.: See—
Boxer, Leo M.; and Boxer, Robert W., 3,703,974.
Oono, Yoshio: See—
Maruya, Mitsuru; Oono, Yoshio; Fukuda, Bunji; and Takahashi, Kenji, 3,644,231.
Oosone, Koozo, to Sony Corporation. Magnetic recording and reproducing device. 3,677,556, 7-18-72, Cl. 274-4.00c.
Oosterhof, Hendricus A.: See—
Gersmann, Hans A.; Oosterhof, Hendricus A.; and Strang, Aart, 3,663,596.
Oosterlynck, Lin-Luc J. S., to S.A. Cotexma N.V. Method of making pile fabrics. 3,695,962, 10-3-72, Cl. 156-148.000.
Oosterveen, Lodewijk: See—
Pardoel, Machiel; and Oosterveen, Lodewijk, 3,694,222.
Oosterveld, Marinus Willem Cornelis, to LIPS N.V. Nozzle for ship's propeller with water ejection along the trailing edge of the nozzle. 3,675,424, 7-11-72, Cl. 60-221.000.
Oouchi, Chiaki: See—
Osuka, Tatsumi; and Oouchi, Chiaki, 3,701,694.
Oouchi, Teruo: See—
Takahashi, Nagashige; and Oouchi, Teruo, 3,691,001.
Opal, Kenneth E.: See—
Happel, William J.; and Opal, Kenneth E., 3,649,800.
Opalenik, John J. Single spring wire ground clip. 3,671,916, 6-20-72, Cl. 339-14.00r.
Opatril, Vaclav: See—
Skopalik, Josef; Svoboda, Vladimir; and Opatril, Vaclav, 3,705,503.
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Berns, Peter M.; and Simonoff, Ely, 3,650,442.
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Opferman, Thomas F.: See—
McCarthy, James W.; and Opferman, Thomas F., 3,649,949.
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Opie, Joseph W.: See—
Speech, Steven R.; Opie, Joseph W.; and Bridge, John A., 3,647,472.
Opie, Jerry J. Boiler protective device. 3,686,452, 8-22-72, Cl. 200-84.00b.
Opioari, Anthony William: See—
Benefiel, James William; and Opioari, Anthony William, 3,639,147.
Opitz, Herman E.: See—
Goelzer, William C.; Moratelli, Patrick A., Jr.; Griffith, Albert M., III; Myers, David D.; Opitz, Herman E.; and Procopio, John J., 3,684,469.
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Opitz, Wolfgang: See—
Baader, Herbert; Opitz, Wolfgang; and Jacobowsky, Armin, 3,652,455.
Sennewald, Kurt; Ohorodnik, Alexander; Hundek, Joachim; Mittler, Werner; Vierling, Hermann; and Opitz, Wolfgang, 3,660,306.
Opitz, Wolfgang, to Knapsack Aktiengesellschaft. Process for the manufacture of monochloroacetyl chloride. 3,686,302, 8-22-72, Cl. 260-544.00.
Oplinger, Donald W.: See—
Akers, Richard L.; and Oplinger, Donald W., 3,675,863.
Opower, Hans: See—
Kaiser, Wolfgang; Opower, Hans; and Puell, Heinz, 3,652,393.
Opp, Warren P.: See—
Frey, Donald J.; and Opp, Warren P., 3,697,229.
Oppel, John A.: See—
Nakata, Roy; and Oppel, John A., 3,670,222.
Oppen, Dieter: See—
Albrecht, Joachim; Hansen, Hans; Oppen, Dieter; Rausch, Werner; and Schiefer, Peter, 3,632,447.
Oppenberg, Rolf: See—
Niepenberg, Horst; Oppenberg, Rolf; and Kuhn, Rudolf, 3,700,376.
Oppenheim, Henry; and Walker, Jonas. Automatic material cutting machine and method. 3,683,731, 8-15-72, Cl. 83-56.000.
Oppenheimer, Henry N.: See—
Goldman, David A.; and Oppenheimer, Henry N., 3,676,850.
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Liebold, Gert; and Oppenlaender, Knut, 3,684,734.
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Oster, Helmut; Ecker, Ernst; Wichmann, Frank; Oppermann, Frank; and Joss, Erich, 3,631,724.
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Oppermann, Willi: See—
Koch, Hans; Oppermann, Willi; and Pfeffer, Heinz, 3,694,617.
Oppermann, Willi; Schonitz, Egon; and Wagner, Werner, to Demag Aktiengesellschaft. Device for the continuous longitudinal seam welding of tubes. 3,648,007, 3-7-72, Cl. 219-59.

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O'Pray, Hugh: See—
MacColl, Donald; and O'Pray, Hugh, 3,691,349.
Opresko, Stephen Thomas: See—
Stoller, Arthur Irwin; and Opresko, Stephen Thomas, 3,677,848.
O'Pry, Arthur F., to Camco, Incorporated. Threading attachment. 3,661,470, 5-9-72, Cl. 408-137.
Opti-Holding AG: See—
Frohlich, Alfons; and Rohn, Karl, 3,633,528.
Frohlich, Alfons; Hochlehnert, Franz; and Rademacher, Werner, 3,680,604.
Frohlich, Alfons; Cappel, Marie-Luise; and Stubiger, Ernst, 3,685,474.
Hansen, Harry, 3,704,490.
Heimberger, Helmut, 3,633,257.
Heimberger, Helmut; and Frohlich, Alfons, 3,663,996.
Heimberger, Helmut, 3,665,561.
Heimberger, Helmut, 3,705,229.
Optic Sciences Corporation: See—
Appler, Robert L.; and Hoehn, Hubert H., 3,667,849.
Optical Coating Laboratory, Inc.: See—
Apfel, Joseph H.; and Gelber, Robert M., 3,649,359.
Apfel, Joseph H.; and Gelber, Robert M., 3,679,291.
Apfel, Joseph H.; and Gelber, Robert M., 3,682,528.
Baker, Martin L., 3,636,917.
Berman, Herbert L., 3,703,718.
Spellman, Vernon C., 3,684,268.
Thelen, Alfred J.; Bergfelt, Nils H.; and Eufusia, Eugene A., 3,636,916.
Optical Memory Systems, Inc.: See—
Maure, Douglas Raymond; and Broome, Barry Glenn, 3,676,864.
Maure, Douglas Raymond, 3,680,080.
Optical Memory Systems, Inc., meane: See—
Maure, Douglas R., 3,656,120.
Optical Research and Development Corporation: See—
Schwemin, Arnold J., 3,677,618.
Optics Technology, Inc.: See—
Kapany, Narinder S., 3,682,553.
Law, Jack M., 3,690,853.
Optipatent AG: See—
Hampel, Gerald; and Gruss, Hansgeorg, 3,640,663.
Optische Werke G. Rodenstock: See—
Dietrich, Anton; Wagner, Alois; Stutz, Paul; and Obster, Martin, 3,633,243.
Schlegel, Franz, 3,663,092.
Schlegel, Franz; and Graf, Josef, 3,687,523.
Wilms, Karl-Heinz, 3,656,829.
Optisonics Corporation: See—
Gallina, Harold, 3,700,319.
Hirth, William R., 3,694,064.
Youngblood, Donald A., 3,662,936.
Optisonics Corporation, meane: See—
Gordon, Hershel; and McAdoo, Charles R., Jr., 3,673,346.
Opto/Graphics, Inc.: See—
Sugarman, Meyer L.; and Wilkie, Thomas A., 3,703,370.
Wright, Joseph E., Jr.; and Cohee, Donald R., 3,685,895.
Optotechnik - G.m.b.H.: See—
Heine, Helmut A., 3,643,083.
OPTOMechanisms, Inc.: See—
Brault, Andre R.; Chitayat, Anwar K.; and Beeh, Ronald C. M. (said Beeh assor. to), 3,704,946.
Chitayat, Anwar K., 3,668,501.
Optronics International: See—
Ward, John H., 3,647,275.
Optronix, Inc.: See—
Rose, Edward A., 3,657,543.
Rose, Edward A.; Krohn, Richard H.; and Slater, Donald E., 3,704,461.
Opuszenski, Theodore: See—
Rovin, Herman; Cobb, James W.; Opuszenski, Theodore; Willard, Richard H.; Rigat, Raymond, Jr.; and Pellicano, Joseph, 3,670,675.
Orabona, Francis A.: See—
Stoddard, James Fred; Orabona, Francis A.; and Dorval, Rodolphe A., 3,704,342.
Orahoud, John L., to Elcor Chemical Corporation. Process for converting sulfates to sulfides. 3,661,518, 5-9-72, Cl. 23-137.
Oravec, August J. Automatically self-cleaning self-aerating tropical fish aquarium. 3,688,907, 9-5-72, Cl. 210-169.000.
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Orban, Ivan: See—
Somlo, Tibor; and Orban, Ivan, 3,681,403.
Orban, Jean: See—
Vital, Zoltan; and Orban, Jean, 3,673,485.

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Rocher, George; and Orban, Nicholas, 3,672,918.
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Humphrey, David H., 3,642,338.
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Colette, Michael, 3,693,073.
- Orbit Manufacturing Company: *See—*
Shriver, Charles S., 3,643,312.
- Orbitex, Inc.: *See—*
Siegal, Burton L.; and Herndon, Steve (said Siegal assor. to), 3,637,448.
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Bascomb, Hollis H.; and Greci, John J., 3,669,790.
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Cowlard, Frederick C.; and Ord, George, 3,645,672.
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Beausoleil, William F.; Ordemann, Fred A., Jr.; Pricer, Wilbur D.; and Vogl, Norbert G., Jr., 3,648,255.
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Kozlov, Stanislav Fedorovich; and Konorova, Elena Alexandrovna, 3,665,193.
- Ordona Lenina Institut Elementoorganicheskikhsoedineniy Akademii: *See—*
Korshak, Vasily Vladimirovich; Volpin, Mark Efimovich; Sergeev, Vladimir Alexandrovich; Shitikov, Valentin Kuzmich; and Kolomnikov, Igor Sergeevich, 3,705,131.
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Shulzhenko, Alexandr Alexandrovich; and Getman, Anatoly Fedorovich, 3,676,068.
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Bondarev, Konstantin Timofeevich; Kozmin, Mikhail Ivanovich; Minakov, Anatoly Gavrilovich; Minin, Vladimir Ivanovich; Mitkevich, Grigory Iosifovich; and Strelakov, Anatoly Vasilievich, 3,684,475.
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Waite, Hal R.; and Lucy, Carl F., 3,669,020.
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Divecha, Amarnath P.; Lare, Paul J.; Ordway, Fred, Jr.; Hermann, Robert A.; Van Blaricon, Orville B.; and Hahn, Henry, 3,668,748.
- Ordway, James F.: *See—*
Bailey, Edward A.; and Ordway, James F., 3,666,022.
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Johnson, James; and Ordway, Richard S., 3,638,261.
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Andrzejak, Sigmund L.; Orehoski, Michael A.; and Shapland, James T., 3,684,267.
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Barkley, John R.; O'Reilly, James J.; and Waring, Robert K., Jr., 3,701,585.
- Orelup, Richard B., to Morton International, Inc. Liquid azo dye composition and process therefor. 3,690,809, 9-12-72, Cl. 8-6.000.
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Daniels, David A.; Orem, Rowland L., Jr.; and Lard, Edwin E., 3,668,139.
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Zabicky-Zissman, Jacobo Zelik; Oren, Ida; and Katchalski, Ephraim, 3,700,610.
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Bennett, Everett W.; and Orenski, Peter, 3,646,087.
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Althaus, Ernst, 3,647,270.
- Scholler, Gerhard; Baschant, Robert; and Hausler, Alfred, 3,686,871.
- Orenstein and Koppel Limited: *See—*
Luck, Dieter G., 3,675,349.
- Orenstein, Nathan: *See—*
Hansen, Neil W.; and Orenstein, Nathan, 3,675,132.
- Orenstein-Koppel und Lubecker Maschinenbau A.G.: *See—*
Engelbart, Fritz, 3,647,081.
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Bonnat, Roger R.; and Ores, Bernard, 3,661,715.
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Murphy, Kevin P.; and Orfeo, Sabatino Robert, 3,634,255.
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Gilson, Russell A.; Kiss, William F.; and Organic, Vincent J., 3,656,002.
- Hrivnak, George A.; and Organic, Vincent J., 3,699,584.
- Organisation Ralfs KG.: *See—*
Kretschmar, Heinz; and Naumann, Franz, 3,643,784.
- Kretschmar, Heinz; Chlebus, Rold; and Ochsner, Willi, 3,679,040.
- Schneider, Erich, 3,635,450.
- Schneider, Erich, 3,672,487.
- Organocerams, Inc.: *See—*
Deutsch, Henry M., 3,661,840.
- Organon Inc.: *See—*
Benthorn, Svend Asger Rud; and Koenen, Wilhelm Engelinius, 3,679,794.
- De Jager, Evert; and Homan, Jan Daniel Herman, 3,678,027.
- De Jongh, Hendrik Paul, 3,673,225.
- Gergely, Gerhard, 3,663,271.
- Goverde, Bastiaan Cornelis; Drost, Rijkent Hendrik; and Louwerens, Bernarus, 3,645,253.
- Moelker, Huibert Cornelis Theus, 3,654,083.
- Panneman, Harm Jean, 3,641,026.
- Price, Richard Thompson; Bauer, Stuart Michael; Brownlee, John; and Goverde, Bastiaan Cornelis, 3,655,838.
- Price, Richard Thompson, 3,666,421.
- Schuurs, Antonius Hermanus Wilhelmus Maria; and Van Weemen, Bauke Klaus, 3,654,090.
- Van Der Burg, Willem Jacob, 3,661,914.
- Van Der Burg, Willem Jacob, 3,701,778.
- Van Gorp, Jacobus Antonius; and Van Ree, Pieter Jurianus, 3,652,605.
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Adamek, John A.; Draugelis, Vaidevutis C.; and Oriel, George J., 3,635,553.
- Orieux, Pierre P.: *See—*
Brun, Andre; Orieux, Pierre P.; and Le Therisien, Louis, 3,656,310.
- Marion, Henri A.; Orieux, Pierre P.; and Serrano, Francisco M., 3,652,196.

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Kockott, Dieter, 3,686,940.
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Friedl, Wolfgang; and Schafer, Volker, 3,679,997.
- Kockott, Dieter, 3,664,188.
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Abolafia, Oscar R.; Butora, John A.; and Orinik, Michael T., 3,705,118.
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Tachibana, Sachihiko; Nakai, Susumu; Makino, Yoichi; Matsumura, Hisashi; Tabuchi, Kimitaka; Hiraoka, Michio; Akoh, Shigeichi; and Orito, Hiroshi, 3,644,078.
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Boetto, Charles; and Orkiszewski, Wayne L., 3,677,348.
- Orlandini, Kent A., to United States of America, Atomic Energy Commission. Selective ion exchange for the isolation of certain alkaline earths. 3,694,369, 9-26-72, Cl. 252-301.10r.
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Lucci, Roberto; and Orlandini, Paolo, 3,661,270.
- Orlando, Charles J. Garment hanger. 3,695,491, 10-3-72, Cl. 223-91.000.
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Schroeter, Siegfried H.; and Orlando, Charles M., 3,696,123.
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Buttke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., 3,668,761.
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Brooks, Rodney A.; and Orlando, Vincent A., 3,678,763.
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Hornbaker, Edwin D.; Sparks, Bryan; and Orloff, Harold D., 3,689,355.
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Rubinshtein, Sholom Yakovlevich; Babin, Mikhail Artemievich; Gutman, Anatoly Lvovich; Naumenko, Viktor Dmitrievich; Orlov, Evgeny Mikhailovich; Presman, Vladimir Alexandrovich; Maev, Veniamin Evnovich; and Bondarenko, Fedor Alexeevich, 3,678,664.
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Fedorkov, Albert Pavlovich; Yaroslavsky, Mikhail Iosifovich; and Orlovskaya, Galina Yankelovna, 3,691,411.
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Kalner, Veniamin Davidovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Ryskind, Alexandr Moiseevich; Semenov, Viktor Nikolaevich; Stepin, Anatoly Loginovich; Surov, Mikhail Andreevich; Shepelyakovsky, Konstantin Zakharovich; and Shklyarov, Isaak Nakhimovich, 3,696,225.
- Nikonov, Vladimir Filippovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Riskind, Alexandr Moiseevich; Stepin, Anatoly Loginovich; Shepelyakovsky, Konstantin Zakharovich; and Shklyarov, Isaak Nakhimovich, 3,684,854.
- Ostrovsky, Grigory Arkadievich; Orlovsky, Anatoly Georgievich; Nikonov, Vladimir Filippovich; Kalner, Veniamin Davydovich; Shklyarov, Isaak Nakhimovich; Stepin, Anatoly Loginovich; Bysink, Alexandr Moiseevich; Shepelyakovsky, Konstantin Zakharovich; and Smrnov, Stanislav Ivanovich, 3,655,466.
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Zhukovsky, Alexandr Ivanovich; Dobroskokov, Anatoly Lukich; and Orlovsky, Vasily Ivanovich, 3,675,772.
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- Orndorff, Roy L., Jr., to Goodrich, B. F., Company, The. Elastomeric bearing. 3,637,273, 1-25-72, Cl. 308-238.
- Orner, Harry. Preloaded ball-bearing screw and nut mechanism. 3,638,507, 2-1-72, Cl. 74-424.8.
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- Orr, Alexander L., to Renton Engineering Company. Photolithographical image processing apparatus. 3,695,760, 10-3-72, Cl. 355-95.000.

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- Orr, Harley J. Heating and radiating unit for electric heaters. 3,632,987, 1-4-72, Cl. 219-530.
- Orr, LaVern G.; and Yutani, Nobuo, to Boeing Company, The. Electromagnetic high energy forming. 3,704,506, 12-5-72, Cl. 29-243.540.
- Orr, Robert F.; and Wyers, Joseph H., to Fluoroware of California, Inc. Developing apparatus. 3,641,906, 2-15-72, Cl. 95-89.
- Orr, William H., to Bell Telephone Laboratories, Incorporated. Thin film distributed RC structure. 3,665,346, 5-23-72, Cl. 333-70.
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- Ort, George M., to Dick, A. B., Company. Ferrocyanide-chelate conversion solution for electrophotographic offset masters. 3,672,885, 6-27-72, Cl. 96-1.000.
- Ort, Jay E., to ERA Incorporated. Unbalanced culture method of algae production. 3,645,040, 2-29-72, Cl. 47-1.4.
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- Ort, Wolfgang, to Eastman Kodak Company. Automatic shutter-speed control. 3,670,635, 6-20-72, Cl. 95-10.00c.
- Ort, Wolfgang, to Eastman Kodak Company. Mechanism for synchronizing operation of a camera shutter and a mechanically actuated flash device. 3,677,158, 7-18-72, Cl. 95-11.500.
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- Ortega, Robert; and Sable, Chester A., to Pools, Anthony, Inc. Swimming pool filter apparatus. 3,653,513, 4-4-72, Cl. 210-169.
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- Ortel, Gerhard, to Kuper, Heinrich. Apparatus for positioning sheets. 3,686,057, 8-22-72, Cl. 156-548.000.
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- Ortel, William Charles Gormley, to Bell Telephone Laboratories, Incorporated. Electrooptic modulator utilizing phase retardation effect of internal reflections. 3,694,052, 9-26-72, Cl. 350-150.000.
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- Orth, George Otto, Jr., to Georgia-Pacific Corporation. Phenol-aldehyde resin adhesive composition. 3,637,547, 1-25-72, Cl. 260-17.2.
- Orth, Hans. Injection molding machine for processing thermo plastic synthetic material having explosive charging and clamping units. 3,674,386, 7-4-72, Cl. 425-1.000.
- Orth, Herbert: See—
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Oehlmann, Erich; and Orth, Herbert, 3,653,320.
- Orth, Peter, to Herberlein Patent Corporation. Process for measuring revolution speed of a body. 3,665,306, 5-23-72, Cl. 324-174.
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Maurer, Manfred; Orth, Winfried; and Rappen, Ludwig, 3,632,807.
- Ortheil, Hans: See—
Snider, Orville E.; Loughlin, James E.; and Ortheil, Hans, 3,635,653.
- Ortho Pharmaceutical Corporation: See—
Hirsch, Allen F., 3,686,237.
Reiss, Alice M.; and Chachowski, Rosemary K., 3,658,982.
Rigney, William R.; Luciano, Robert A.; and Tump, Dirk, 3,654,890.
Shroff, Arvin Pranlal, 3,679,664.
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Girard, Jean Rene Marie, 3,673,462.
- Orthuber, Richard K., to International Telephone and Telegraph Corporation. Channel type electron multiplier for use with display device. 3,634,712, 1-11-72, Cl. 313-103.
- Ortiz, Ralph G. Occupant propelled amusement vehicle. 3,666,291, 5-30-72, Cl. 280-226.
- Ortlieb, Alfred: See—
Leibfried, Wolfgang; Schmid, Guenther; Ortlieb, Alfred; Hartmann, Horst J.; and Tittes, Eberhard, 3,648,915.
Traub, Eberhard; Ortlieb, Alfred; Brill, Klaus; and Grothe, Wolfgang, 3,657,721.
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- Ortmann, Walter: See—
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- Ortolano, Ralph J., to Westinghouse Electric Corporation. Continuous shrouding-riveted construction. 3,702,221, 11-7-72, Cl. 416-191.000.
- Orton, Edward, Jr., Ceramic Foundation, The: See—
Schoenlaub, Robert A., 3,667,294.
- Orts, Donald H., to Armco Steel Corporation. Method of forge type welding. 3,683,147, 8-8-72, Cl. 219-117.00r.
- Orts, Joseph, to La Telemecanique Electrique. Device for fixing equipment, such as electrical apparatus, on a support. 3,655,154, 4-11-72, Cl. 248-27.
- Ortwein, Norman R.: See—
Bickel, John E.; Freres, Clemens H.; Gossard, Earl E.; Britt, James E.; Ortwein, Norman R.; and Swanson, Eric R., 3,680,115.
- Ortynski, Samuel J. Wearable fisherman's lure and fly carrier. 3,638,843, 2-1-72, Cl. 224-5.
- Orwig, James A. Device to maintain position for chest radiography. 3,634,685, 1-11-72, Cl. 250-50.
- Orwin, Olaf John Barclay, to GIB Precision Limited. Flexible couplings. 3,703,817, 11-28-72, Cl. 64-13.000.
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- Orwoll, Edward F., to FMC Corporation. Process for producing trialkyl phosphates. 3,644,602, 2-22-72, Cl. 260-974.
- Orwoll, Edward F., to FMC Corporation. Process for purifying trialkyl phosphates by reduced pressure distillation and phenol injection. 3,679,550, 7-25-72, Cl. 203-38.000.
- Orwoll, Edward Francis: See—

- Lynch, Charles Andrew, Jr.; and Orwoll, Edward Francis, 3,678,086.
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- Orzhekhovsky, Julian Felixovich: See—
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- Osada, Chiaki: See—
Ono, Hisatake; Watarai, Syu; and Osada, Chiaki, 3,686,153.
Ono, Hisatake; and Osada, Chiaki, 3,692,800.
Ono, Hisatake; Osada, Chiaki; Watarai, Syu; and Katsuyama, Harumi, 3,697,266.
Ono, Hisatake; and Osada, Chiaki, 3,703,398.
Ono, Hisatake; Watarai, Syu; and Osada, Chiaki, 3,707,369.
Tamai, Yasuo; Osada, Chiaki; Ono, Hisatake; and Honjo, Satoru, 3,660,086.
- Osada, Yasuaki: See—
Oshima, Yasuo; Nakazawa, Nobuhiko; Nagasaki, Senkichi; Naito, Takeo; Osada, Yasuaki; Okusa, Naoya; Inuaki, Akira; and Tanaka, Kazuyuki, 3,705,989.
- Osaka Gas Company, Limited: See—
Ueda, Koza; Kimoto, Jitsumi; and Moritake, Mitsuru, 3,692,663.
- Osaka Sanso Kogyo Kabushiki Kaisha: See—
Asada, Yutaka; Obinata, Tatsuichi; and Matsuda, Kamematsu, 3,650,414.
- Osaka Seika Kogyo Kabushiki Kaisha: See—
Seino, Shuichi; Fujino, Tomizo; and Tonegawa, Kakuji, 3,637,672.
- Osaka Seiki Works, Ltd.: See—
Hori, Takashi, 3,670,461.
- Osaka Soda Co., Ltd.: See—
Takikawa, Toshio; Satomo, Kouji; and Kodama, Takashi, 3,671,354.
- Yokota, Noriyuki; Tokuda, Shingo; and Asada, Shigeo, 3,649,508.
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- Osaka Transformer Co., Ltd., The: See—
Okada, Toshiyuki, 3,652,824.
- Osaka, Yonosuke; Watanabe, Kinya; Tamura, Kohji; Sonoyama, Heikitsu; Matsuda, Satoru; Haruhana, Masao; and Matoba, Hideo, to Daikin Kogyo Kabushiki Kaisha. Process for purifying hydrofluoric acid by distillation with an oxidizing agent and a ferrous salt. 3,689,370, 9-5-72, Cl. 203-31.000.
- Osakada, Atsushi: See—
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- Tamai, Isamu; Oyama, Minoru; Osakada, Atsushi; and Shinohara, Yasuo, 3,655,542.
- Wakamura, Nobuo; Okada, Hiroshi; Osakada, Atsushi; and Tanaka, Takashi, 3,645,928.
- Osakeyhtio, A. Ahlstrom: See—
Evalait, Osmo Rainer, 3,674,633.
- Nikanen, Klaus Kalevi, 3,633,259.
- Tuomala, Jorma A. K., 3,676,909.
- Osaki, Bonji: See—
Shima, Takesaburo; Yamagishi, Akio; Sada, Masao; Osaki, Bonji; and Yamamoto, Zenichi, 3,636,098.
- Osaki, Keisuke; Egashira, Hiroshi; and Hayashi, Yasunori, to Omron Tateisi Electronics Co. Automatic ticket gate. 3,675,206, 7-4-72, Cl. 340-149.00a.
- Osaki, Yoshiyasu: See—
Tani, Isamu; Otsuka, Masatomi; Osaki, Yoshiyasu; and Hagino, Takuo, 3,674,646.
- Osako, Akitada: See—
Munakata, Hideaki; Watanabe, Kazuo; Osako, Akitada; and Urakabe, Rintaro, 3,660,460.
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- Osawa, Akira: See—
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- Osawa, Hiroshi: See—
Chujo, Kiyoshi; Ishihara, Tetsuo; and Osawa, Hiroshi, 3,695,922.
- Osawa, Sadao: See—
Tamai, Yasuo; Osawa, Sadao; and Taguchi, Seiichi, 3,677,766.
- Osawa, Shigeru; and Kanazawa, Michio, to Topy Industries, Limited. Wheel cap fixing device. 3,653,719, 4-4-72, Cl. 301-37.
- Osberg, Edward V.; and Beck, Walter, to Stepan Chemical Company. Emulsifiable polymeric hindered phenols and their use as stabilizers. 3,699,173, 10-17-72, Cl. 260-613.00b.
- Osbond, John Mervyn; and Philpott, Peter George, to Hoffmann-La Roche Inc. Novel substituted-oxadiazoles and a process for the manufacture thereof. 3,655,684, 4-11-72, Cl. 260-307.
- Osbond, John Mervyn; and Wickens, James Charles, to Hoffmann-La Roche Inc. Chrysanthemic acid esters. 3,663,591, 5-16-72, Cl. 260-468.00p.
- Osborn, Claiborn Lee; and Trecker, David J., to Union Carbide Corporation. Treatment of monomeric and polymeric systems with high intensity predominantly continuum light radiation. 3,650,669, 3-21-72, Cl. 8-115.5.
- Osborn, Fredrick W.; Hedrick, Geoffrey S.; and Prasse, William A., to Lear Siegler, Inc. Multi-element shaft encoder incorporating a Geneva drive. 3,660,830, 5-2-72, Cl. 340-204.
- Osborn, George E.; and Tunney, Bernard W., Sr. Material heater. 3,633,563, 1-11-72, Cl. 126-343.5.
- Osborn, Jack L.: See—
Wagner, Ovner R., Jr.; Smith, Lowell R.; and Osborn, Jack L., 3,656,550.
- Osborn, Lemuel E.: See—
McClain, Douglas; and Osborn, Lemuel E., 3,690,723.
- Osborn, Oliver; and Prows, Bernard L., to Dow Chemical Company, The. Electrolytic method of marine fouling control. 3,661,742, 5-9-72, Cl. 204-147.
- Osborn, Richard A.: See—
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- Osborne, Bodwell D., to Lockheed Missiles & Space Company. Flexible solar cell modular assembly. 3,658,596, 4-25-72, Cl. 136-89.
- Osborne, Brian G.: See—
Marason, Gabriel, Jr.; Ma, Austin C.; and Osborne, Brian G., 3,701,215.
- Osborne, Colin Terry; and Burdett, Michael Keith, to English Electric Company Limited, The. Pulse counting arrangements. 3,644,718, 2-22-72, Cl. 235-92.
- Osborne, David Richard Duke, to Lever Brothers Company. Substituted salicylanilides. 3,674,850, 7-4-72, Cl. 260-559.00a.
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Bartlett, David S., Jr.; Purcell, Rupert M.; Osborne, David W.; and Smith, Troy F., Jr., 3,659,709.
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- Osborne, Edwin F., Jr., to Esquire, Inc. Lighting casings. 3,636,339, 1-18-72, Cl. 240-3.
- Osborne, Eugene F.; and Rueger, Lauren J., to United States of America, Navy, mesne. Remote drift rate compensator for frequency standards. 3,662,269, 5-9-72, Cl. 325-63.
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- Osborne, Keith: See—
Teague, Walter Dorwin, Jr.; Montalbano, Anthony Philip; Oakes, Andrew A.; Osborne, Keith; and Susey, Peter E., 3,668,784.
- Osborne, Keith, to Southern California Gas Co. Heater ignition system. 3,676,042, 7-11-72, Cl. 431-66.000.
- Osborne, Richard F.: See—
Lampi, Rauno A.; Hu, Kwoh H.; and Osborne, Richard F., 3,678,276.
- Osborne, Robert D., 10% to Lee, Raymond, Organization, Inc., The. Guitar pick. 3,650,172, 3-21-72, Cl. 84-322.
- Osborne, Solomon C.: See—
Keller, Joseph D.; and Osborne, Solomon C., 3,665,367.
- Osborne, Thomas E., to Hewlett-Packard Company. Keyboard entry means and power control means for calculator. 3,641,328, 2-8-72, Cl. 235-156.
- Osborne, Thomas E., to Hewlett-Packard Company. Output display for use with a calculator. 3,668,461, 6-6-72, Cl. 315-22.000.
- Osborne, Thomas E., to Hewlett-Packard Company. Data processing control system. 3,704,448, 11-28-72, Cl. 340-172.500.
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- Osborne, William T.: See—
Anderson, Carl M.; and Osborne, William T., 3,665,724.
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- Osburn, Albert Ray: See—
Pelham, Joseph E.; and Osburn, Albert Ray, 3,701,256.
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Barrow, Marvin A., 3,668,628.
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Maruyama, Kunimori, 3,704,760.
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- Osepchuk, John M.: *See*—
Edwards, Robert E.; and Osepchuk, John M., 3,636,403.
- Osepchuk, John M., to Raytheon Company. Storage type acoustic image converter device and acoustic viewing system. 3,654,596, 4-4-72, Cl. 340-3.
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Olson, Roger A.; and Osero, Norman M., 3,706,983.
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Sobel, Sydney Murray, 3,684,228.
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Pesce, Carl A.; and Oscheff, Sheldon, 3,633,031.
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Nakano, Mamoru; Kadowaki, Koju; Komurao, Isao; Koshikawa, Takeo; and Oshida, Bunzi, 3,703,550.
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Sakazume, Kaichiro; Ito, Shigemasa; Sato, Shui; Sakamoto, Eiichi; and Oshima, Akio, 3,698,910.
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Ashina, Yoshiro; Oshima, Iwao; and Sekine, Kazunori, 3,701,761.
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Tanaka, Katsunobu; Oshima, Kazuo; Tokoro, Yoh; and Okii, Mitsuyoshi, 3,654,079.
- Oshima, Keiji; Yamada, Shozo; Sakurai, Fujio; Iwasa, Yoshisuke; Horiuchi, Koichi; Uchida, Unosuke; Nomura, Teruhiko; and Tominaga, Yasushi, to Sumitomo Bakelite Company Limited. Process for production of matrix molding board. 3,699,203, 10-17-72, Cl. 264-12.000.
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Fujisaki, Yoshisato; Aishima, Itsuho; Sakurai, Hisaya; Kitaoka, Atsushi; Kawasaki, Hironobu; and Oshima, Minoru, 3,632,670.
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Kakumu, Ichizo; and Oshima, Susumu, 3,674,003.
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Ueno, Katsuji; and Oshima, Takao, 3,700,608.
Ueno, Katsuji; and Oshima, Takao, 3,707,513.
Ueno, Katsumi; Oshima, Takao; and Seki, Hideo Company, 3,697,496.
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Hatanaka, Yoshihiro; Abe, Masahiro; Oshima, Takeo; and Akioka, Toshio, 3,652,081.
Matsuda, Shogo; Shimodoi, Yutaka; Oshima, Takeo; and Ochi, Kazushi, 3,653,806.
- Oshima, Takeshi: *See*—
Sato, Yasunobu; Kobayashi, Yutaka; Takagi, Hiromu; Kumakura, Seiji; Nakayama, Koichi; and Oshima, Takeshi, 3,663,570.
- Oshima, Teruo: *See*—
Yamamoto, Keisaku; Takao, Hiroyoshi; Hirooka, Masaaki; and Oshima, Teruo, 3,655,583.
Yamamoto, Keisaku; Takao, Hiroyoshi; Hirooka, Masaaki; and Oshima, Teruo, 3,674,755.
Yasui, Seimei; Hirooka, Masaaki; and Oshima, Teruo, 3,649,573.
Yasui, Seimei; Hirooka, Masaaki; and Oshima, Teruo, 3,678,018.
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Ishida, Shinichi; Fujita, Norimasa; Oshima, Yoshisada; Tanaka, Teturo; and Hiruta, Mitito, 3,657,189.
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Suzuki, Toshio; Oshima, Yujiro; and Kataoka, Masao, 3,659,564.
- Oshio, Akira: *See*—
Nishi, Seiya; Oshio, Akira; and Eto, Kiyomitsu, 3,676,541.
Nishi, Seiya; Oshio, Akira; and Kiyomitsu, Eto, 3,677,780.
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Blank, Wallace J., 3,675,508.
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Linsen, Bastiaan Gerardus; and Osinga, Theo Jan, 3,673,115.
Van Beck, Wilhelmus Petrus; and Osinga, Theo Jan, 3,637,529.
Van Beck, Wilhelmus Petrus; and Osinga, Theo Jan, 3,668,148.
- Osipenko, Stephen: *See*—
Doel, R. Garth; Bricknell, William H.; and Osipenko, Stephen, 3,643,712.
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Hosoda, Taisei; Uzuhashi, Hideo; Osiyama, Hiroichi; and Ioka, Kazuo, 3,657,899.
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Clarke, Michael Raymond; Osmond, Desmond Wilfred John; and Waite, Frederick Andrew, 3,691,123.
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Spatz, Donald Dean, 3,637,467.
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Gunning, Paul E., 3,645,424.
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Umezawa, Hamao; and Osono, Takashi, 3,636,197.
- Osovitz, Eugene E.: *See*—
Zysk, Edward D.; and Osovitz, Eugene E., 3,679,491.
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Osplack, Joseph J.; and Osplack, Rodman J., 3,673,660.
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Oswow, Leonard, 3,646,317.
Oswow, Leonard, 3,690,024.
- Ossanna, Oliver A.: *See*—
French, William H.; and Ossanna, Oliver A., 3,668,091.
French, William H.; and Ossanna, Oliver A., 3,668,092.
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- Ostapchenko, George Joseph: *See*—
Golike, Ralph Crosby; Ostapchenko, George Joseph; and Garlington, William Drake, 3,663,662.
- Ostberg, Bernhard Nils. Vane-type rotary fluid displacing machine. 3,642,390, 2-15-72, Cl. 418-133.
- Ostbergs Fabriks AB: *See*—
Forslund, Erik Torsten, 3,631,906.
Karlin, Bengt Hald, 3,631,905.
Karlin, Bengt Hald; and Larsson, Bengt Lars, 3,637,235.
Lindblom, Karl Thore, 3,643,708.
Lindblom, Karl Thore, 3,687,271.
Lindblom, Thore, 3,667,619.
Runeson, Stig Olof, 3,688,816.
Runeson, Stig Olof, 3,688,823.
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- Ostbringhaus, Otto: *See*—
Neumann, Karl Josef; and Ostbringhaus, Otto, 3,687,446.
- Ostby & Barton Co.: *See*—
Hannily, Daniel T., 3,704,501.
Smith, James P., 3,675,189.
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Eftestol, Bard; and Osteng, Tor, 3,705,256.
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Mihojevich, Steven; Zeffans, Arthur S.; Ostensen, Ralph G.; Berggren, Albin F., Jr.; and Glaser, Ronald A., 3,698,706.
- Oster, Claude. Grounding receptacle. 3,701,074, 10-24-72, Cl. 339-14.00r.
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Fuchs, Richard C.; Sukow, Daniel L.; and Wilke, Dennis P., 3,671,785.
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Arel, Robert W.; and Meyer, Donald R., 3,675,321.
Blachly, Donald L.; and Weidner, Jack E., 3,678,246.
Petroske, Robert P.; Artin, Robert L.; and Meyer, Donald R., 3,635,270.
Schaefer, George H., 3,681,568.
- Oster, Richard J.: *See*—
Gona, Donald J.; and Oster, Richard J., 3,672,293.
- Oster, Stanley; Higashi, Herbert I.; and Dornier, Otto, to Northrop Corporation. Data acquisition unit with memory. 3,681,758, 8-1-72, Cl. 340-172.500.
- Osteraas, A. Jean: *See*—
Olsen, Douglas A.; and Osteraas, A. Jean, 3,666,536.
- Osterberg, Arnold Curtis: *See*—
Suffern, Donald Bruce Borders; Osterberg, Arnold Curtis; and Wallo, Kenneth George, 3,706,835.
- Osterberg, Rodney P.: *See*—
Schwartz, Robert A. D.; and Osterberg, Rodney P., 3,668,381.
- Ostergren, William F.; and Hurlburt, Joseph C., to Sperry Rand Corporation. Mower mounting linkage. 3,654,749, 4-11-72, Cl. 56-15.8.
- Osterhagen, Gerhard: *See*—
Krebsbach, Friedhelm; Osterhagen, Gerhard; and Oettel, Gunter, 3,635,639.
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- Osterink, Larry M.: *See*—
Foster, Jack D.; and Osterink, Larry M., 3,648,193.
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Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,651,084.
Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,652,586.
Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,665,010.
Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,665,011.
Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,673,212.
Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,689,656.

Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,697,460.
 Taub, William; Denss, Rolf; and Ostermayer, Franz, 3,692,913.
 Ostermayer, Frederick William, Jr.: *See—*
 Geusic, Joseph Edward; Ostermayer, Frederick William, Jr.; and Van Uiter, Le Grand Gerard, 3,654,463.
 Ostermayer, Frederick William, Jr., to Bell Telephone Laboratories, Incorporated. High-efficiency diode-pumped lasers. 3,663,893, 5-16-72, Cl. 331-94.5.
 Ostermeier, Johann: *See—*
 Herz, Luis; Mohr, Reinhard; Mundlos, Eberhard; Mundlos, Eberhard; and Ostermeier, Johann, 3,681,347.
 Mohr, Reinhard; and Ostermeier, Johann, 3,635,942.
 Österreichisch-Amerikanische Magnesit Aktiengesellschaft: *See—*
 Weiss, Viktor, 3,645,397.
 Österreichische Mineralölverwaltung Aktiengesellschaft: *See—*
 Bauer, Erich; Reichard, Franz; and Schwarz, Ferdinand, 3,702,308.
 Senolt, Hans; Tomaschko, Heinrich; and Palvik, Georg, 3,652,445.
 Österreichische Stickstoffwerke Aktiengesellschaft: *See—*
 Goller, Heinz, 3,640,685.
 Schmidt, Alfred; Weinrotter, Ferdinand; and Müller, Walter, 3,652,209.
 Schmidt, Alfred, 3,661,511.
 Schonbeck, Rupert; and Kloimstein, Engelbert, 3,663,546.
 Schramm, Geza; and Riedl, Horst, 3,673,175.
 Stich, Heinrich; Ruckenstein, Kurt; Binder, Walter; and Hutter, Josef, 3,652,308.
 Vorreither, Hans-Klaus; Obendorf, Werner; Menzl, Kurt; and Hofer, Harald, 3,642,811.
 Österreichische Studiengesellschaft für Atomenergie Ges. m.b.H.: *See—*
 Frevert, Erich, 3,652,857.
 Hick, Harald Peter; and Pepelnik, Rudolf, 3,699,340.
 Knotik, Karl; and Gutbauer, Franz, 3,705,820.
 Stehlik, Gerhard, 3,704,089.
 Ostertag, Albert: *See—*
 Worner, Walter; and Ostertag, Albert, 3,633,387.
 Ostertag, Karl; and Nilgens, Heinrich, to Akzona Incorporated. Multi-stage injector for thread withdrawal. 3,679,114, 7-25-72, Cl. 226-97.000.
 Ostertag, Karl; and Nilgens, Heinrich. Method for the uniform heat treatment of filament material. 3,682,238, 8-8-72, Cl. 165-1.000.
 Osthagen, Sven M.; and Wise, Henry M., Jr., to Life Support Equipment Corporation. Urethral valve. 3,642,004, 2-15-72, Cl. 128-349.
 Ostler, David S.: *See—*
 Holbrook, Le Grand K.; and Ostler, David S., 3,646,935.
 Holbrook, LeGrand K.; and Ostler, David S., 3,704,724.
 Ostrager, Seymour A. Self-ejecting chuck key. 3,686,985, 8-29-72, Cl. 81-90.00a.
 Ostrander, Robert K.: *See—*
 Sklarsky, Bernard B.; and Ostrander, Robert K., 3,696,551.
 Ostrander, Robert K. Jointed doll. 3,634,966, 1-18-72, Cl. 46-161.
 Ostrander, Ronald D.: *See—*
 Lemke, Donald L.; and Ostrander, Ronald D., 3,675,866.
 Ostrem, Halvor, to Kvaerner Brug A/S. Battening system for hatch covers. 3,696,774, 10-10-72, Cl. 114-203.
 Ostroff, Aaron J.: *See—*
 Howell, William E.; and Ostroff, Aaron J., 3,647,276.
 Ostroff, Jerome: *See—*
 United States of America, National Aeronautics and Space Administration, 3,664,185.
 Ostroff, Nathaniel S.; and Rose, Willie, to Acrodyne Industries, Incorporated. Radio frequency pulse transmitter. 3,667,049, 5-30-72, Cl. 325-164.
 Ostrognai, Allen Gilbert, to General Electric Company. Method making a fan. 3,638,470, 2-1-72, Cl. 72-324.
 Ostrom, Martin E., to Keystone Consolidated Industries, Inc. Caster bracket assembly. 3,639,942, 2-8-72, Cl. 16-29.
 Ostroski, John W.: *See—*
 Chang, Hung Chi; and Ostroski, John W., 3,684,592.
 Ostrovsky, Grigory Arkadievich: *See—*
 Kalner, Veniamin Davidovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Ryskind, Alexandr Moiseevich; Semenov, Viktor Nikolaevich; Stepin, Anatoly Loginovich; Surov, Mikhail Andreievich; Shepelyakovsky, Konstantin Zakharovich; and Shklyarov, Isaak Nakhimovich, 3,696,225.
 Nikonov, Vladimir Filippovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Riskind, Alexandr Moiseevich; Stepin, Anatoly Loginovich; Shepelyakovsky, Konstantin Zakharovich; and Shklyarov, Isaak Nakhimovich, 3,684,854.
 Ostrovsky, Grigory Arkadievich; Orlovsky, Anatoly Georgievich; Nikonov, Vladimir Filippovich; Kalner, Veniamin Davidovich; Shklyarov, Isaak Nakhimovich; Stepin, Anatoly Loginovich; Bysink, Alexandr Moiseevich; Shepelyakovsky, Konstantin Zakharovich;

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 Ostrovsky, Igor Semenovich: *See—*
 Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Iekandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,719.
 Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Iekandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,720.
 Ostrow, Barnet D.: *See—*
 Nobel, Fred I.; and Ostrow, Barnet D., 3,642,589.
 Nobel, Fred I.; and Ostrow, Barnet D., 3,672,969.
 Ostrowski, Anthony C., to Hersey Products Inc. Register box and lid for meters. 3,659,457, 5-2-72, Cl. 73-273.000.
 Ostrowski, Arthur E.: *See—*
 Krengel, Theodore H.; Ostrowski, Arthur E.; and Raymond, Anthony J., 3,696,503.
 Ostrowski, Arthur E.; and Basile, Raffaele, to Allied Tube & Conduit Corporation. Apparatus for coating surfaces and curing the same at high speeds. 3,667,095, 6-6-72, Cl. 29-3.
 Ostrowski, John S.: *See—*
 Le Bras, Louis R.; and Ostrowski, John S., 3,663,397.
 Ostrozynski, Robert Leopold, to Union Carbide Corporation. Process for preparing silicon peroxide compounds. 3,700,712, 10-24-72, Cl. 260-448.20e.
 Ostwald, Erich, to Black and Decker Manufacturing Company, The. Double insulated field mounting for universal motor. 3,693,035, 9-19-72, Cl. 310-51.000.
 Ostwald, Fritz, to International Telephone and Telegraph Corporation. Hydrostatic brake. 3,638,768, 2-1-72, Cl. 188-294.
 Ostwald, Fritz, to International Telephone and Telegraph Corporation. Shock absorber. 3,656,633, 4-18-72, Cl. 213-43.
 Ostwald, Fritz, to International Telephone and Telegraph Corporation. Power assisted brake. 3,657,887, 4-25-72, Cl. 60-54.6.
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 Ostwald, Fritz; Bender, Alfred; and Nonn, Gerhard, to ITT Industries, Inc. Control valve. 3,678,954, 7-25-72, Cl. 137-106.000.
 Ostyn, Marcel: *See—*
 Dupas, Robert; and Ostyn, Marcel, 3,634,249.
 Gourlaouen, Henri; and Ostyn, Marcel, 3,657,132.
 Osuga, Hiroshi; Kaiho, Isao; and Shimizu, Hiroshi, to Nihon Polystyrene Kogyo Kabushiki Kaisha. Process for the preparation of impact-resisting polystyrenic polymers. 3,658,944, 4-25-72, Cl. 260-876.
 Osugi, Kinichiro; Suzuki, Yoshiaki; Mori, Tokio; and Inamoto, Toshiharu, to Matsushita Electric Industrial Co., Ltd. Display system for use in desk-top computers. 3,641,561, 2-8-72, Cl. 340-324.
 Osuka, Hiroshi: *See—*
 Kaiho, Isao; Shimizu, Hiroshi; and Osuka, Hiroshi, 3,696,172.
 Takahashi, Akira; Kojima, Hiroo; Ogawa, Masao; Osuka, Hiroshi; and Kobayashi, Shoichi, 3,673,279.
 Osuka, Tatsumi; and Oouchi, Chiaki, to Nippon Kokan Kabushiki Kaisha. Heat treatment method for ferrite pearlite steel. 3,701,694, 10-31-72, Cl. 148-12.000.
 O'Sullivan, Denis J.; and Bolger, Bernard J., to Loctite (Ireland), Limited. Plasticized cyanoacrylate adhesive compositions. 3,699,127, 10-17-72, Cl. 260-332.00r.
 O'Sullivan, Denis Joseph: *See—*
 Bolger, Bernard Joseph; and O'Sullivan, Denis Joseph, 3,640,972.
 O'Sullivan, Denis Joseph; and Stamper, David John, to Loctite (Ireland) Limited. Stabilized anaerobic sealant composition. 3,682,875, 8-8-72, Cl. 260-89.50r.
 Osvold, Harry C.: *See—*
 Buzby, Robert Y.; Hammang, John T.; Hudak, Ronald A.; and Osvold, Harry C., 3,632,146.
 Oswald, Alexis; Hall, Daniel N.; and Griesbalm, Karl, to Esso Research and Engineering Company. Allylic sulfide reaction products. 3,686,326, 8-22-72, Cl. 260-609.00r.
 Oswald, Alexis A.: *See—*
 Mueller, Wolfgang H.; Thaler, Warren A.; and Oswald, Alexis A., 3,660,543.
 Oswald, Alexis A., to Esso Research and Engineering Company. Thiophosphorus acid-N-vinyl phthalimide adducts. 3,658,840, 4-25-72, Cl. 260-326.
 Oswald, Alexis A.; and Valint, Paul L., Jr., to Esso Research and Engineering Company. S-allylic and S-allylic O,S'-dialkyl dithiophosphates. 3,662,034, 5-9-72, Cl. 260-957.
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Oswald, Alexis A.; and Mueller, Wolfgang H., to Esso Research and Engineering Company. Preparation of thiol esters. 3,687,830, 8-29-72, Cl. 204-158.00r.
 Oswald, Donald R.: *See—*
 Frank, Gerard A.; Kipp, Karl F.; and Oswald, Donald R., 3,664,872.
 Oswald, Gernot; Wenzig, Wolfgang; and Ruchardt, Hugo, to Siemens Aktiengesellschaft. Electrical device controlled by at least two tunable capacitance diodes. 3,657,609, 4-18-72, Cl. 317-234.
 Oswald, Hendrikus J.: *See—*
 Lamb, George E. R.; Prevorsek, Dusan C.; and Oswald, Hendrikus J., 3,634,163.
 Lamb, George E. R.; Prevorsek, Dusan C.; Kotliar, Abraham M.; and Oswald, Hendrikus J., 3,705,074.
 Prevorsek, Dusan C.; Li, Hsin L.; Koch, Paul J.; Oswald, Hendrikus J.; and Schmitt, George J., 3,690,980.
 Oswald, Leo Alex, to Owens-Corning Fiberglass Corporation. Apparatus for advancing glass fibers. 3,666,431, 5-30-72, Cl. 65-11.
 Oswald, May, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method and apparatus for monitoring the performance of a draft vehicle. 3,686,935, 8-29-72, Cl. 73-112.000.
 Oswald, Peter: *See—*
 Peter, Erwin; and Oswald, Peter, 3,684,229.
 Oswald, Robert A.: *See—*
 Oswald, Robert A.; and Bull, James R. (said Bull assor. to), 3,697,698.
 Oswald, Robert A. Method of producing time-position records of objects. 3,678,189, 7-18-72, Cl. 178-6.70r.
 Oswald, Robert A.; and Bull, James R., said Bull assor. to Oswald, Robert A. Pari-mutuel off-track betting system. 3,697,698, 10-10-72, Cl. 179-15.00a.
 Oswald, Roger D.: *See—*
 Power, Basil Dixon; and Oswald, Roger D., 3,635,039.
 Oswald, William A.: *See—*
 Bartlett, William F.; and Oswald, William A., 3,639,693.
 Bartlett, William F.; Gifford, John C.; Lenk, Pedro A.; Oswald, William A.; Shaw, Frank Y.; Stuebe, Thomas D.; and Yost, Lloyd H., 3,662,349.
 Oswald, Leon M., to Cato Oil and Grease Co. Oil change kit. 3,703,956, 11-28-72, Cl. 206-47.00r.
 Oswitch, Stanley: *See—*
 Golownia, Robert F.; and Oswitch, Stanley, 3,700,617.
 Ota, Akira: *See—*
 Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, 3,647,552.
 Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, 3,655,449.
 Ota, Chuichi: *See—*
 Amano, Kitsutaro; Ota, Chuichi; Hashimoto, Masao; Kanzaki, Hisao; Sakamoto, Yasuhiko; and Yasoshima, Nobuyuki, 3,644,680.
 Ota, Hiroshi: *See—*
 Tanaka, Eiichihiro; Fukuda, Takeji; Yamaji, Kenkichi; Miyake, Yasuhiko; Ota, Hiroshi; and Kimura, Katsuo, 3,646,796.
 Ota, Hiroshi, to Toyoda Koki Kabushiki Kaisha. Side-dressing apparatus for a grinding machine. 3,667,445, 6-6-72, Cl. 125-11.000.
 Ota, Isao: *See—*
 Otsuka, Tetsuro; Ota, Isao; and Ogo, Shinichi, 3,639,246.
 Ota, Isao, to Matsushita Electric Industrial Co., Ltd. Electrophoretic display device. 3,668,106, 6-6-72, Cl. 204-299.
 Ota, Isao, to Matsushita Electric Industrial Co., Ltd. Electrophoretic light image reproduction device. 3,684,683, 8-15-72, Cl. 204-300.000.
 Ota, Isao, to Matsushita Electric Industrial Co., Ltd. Photoelectrophoretic image reproduction device. 3,689,399, 9-5-72, Cl. 204-299.000.
 Ota, Isao; and Otsuka, Tetsuro, to Matsushita Electric Industrial Co., Ltd. Color image reproduction device. 3,689,400, 9-5-72, Cl. 204-300.000.
 Ota, Katsumi: *See—*
 Mori, Chiharu; and Ota, Katsumi, 3,678,826.
 Mori, Chiharu; and Ota, Katsumi, 3,690,230.
 Ota, Keiichi. High-strength silicon steel. 3,674,468, 7-4-72, Cl. 75-128.00a.
 Ota, Kunio: *See—*
 Nakashio, Seizo; Takemura, Toshio; and Ota, Kunio, 3,658,945.
 Nakashio, Seizo; Takemura, Toshio; and Ota, Kunio, 3,658,949.
 Seki, Hideo; Funada, Mitsuaki; and Ota, Kunio, 3,632,651.
 Ota, Masami: *See—*
 Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Tetsuhiro, Kusunose; Isumaki, Tatsuchi; and Ota, Masami, 3,700,662.
 Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Kusunose, Tetsuhiro; Tsumaki, Tatsuchi; and Ota, Masami, 3,705,877.
 Ota, Masanori; and Yoshikawa, Seishiro, to Okamura Oil Mill Limited. Mixed sugar alcohol esters of higher and lower saturated fatty acids. 3,649,647, 3-14-72, Cl. 260-345.8.
 Ota, Nobuyoshi: *See—*
 Masuda, Mitsuo; and Ota, Nobuyoshi, 3,649,936.

Ota, Sadayasu, to Kabushiki Kaisha Morita Seisakusho. Shadeless dental light. 3,666,939, 5-30-72, Cl. 240-41.15.
 Ota, Shigenori: *See—*
 Samejima, Hiroto; Nagano, Yuji; Ota, Shigenori; Kanzaki, Yasushi; Matsuo, Hideki; and Kuroda, Keizo, 3,658,557.
 Ota, Tadashi, to Globe-Union Inc. Method and apparatus for automatically determining characteristic parameters. 3,659,200, 4-25-72, Cl. 324-158.
 Ota, Tazuo: *See—*
 Tsuboi, Yukio; Ueda, Yoshio; Ota, Tazuo; and Yoneoka, Mikio, 3,647,054.
 Ota, Tomiyoshi; Takigawa, Katunobu; and Honda, Masasada, to Nihon Denshi Kabushiki Kaisha. Recording device with automatic gain range changer and DC correction means. 3,699,948, 10-24-72, Cl. 128-2.06g.
 Ota, Yoshiharu: *See—*
 Kobayashi, Tatsuo; and Ota, Yoshiharu, 3,701,942.
 Ottaguro, Adayaso, to General Corporation, The. Capacitor switching arrangement for regulating power output of heating magnetron. 3,684,978, 8-15-72, Cl. 331-86.000.
 Otake, Katsumoto: *See—*
 Takahashi, Sankichi; Otake, Katsumoto; and Horiuchi, Toshiaki, 3,707,442.
 Otake, Michio: *See—*
 Konishi, Kozo; Otake, Michio; Maeda, Tazuo; and Maruyama, Kuniaki, 3,672,941.
 Konishi, Kozo; Suzui, Masaaki; Otake, Michio; and Maeda, Tazuo, 3,699,112.
 Otake, Naokichi; Yamanobe, Yutaka; Siina, Katumi; and Usuba, Kunikatsu, to Kureha Kagaku Kogyo Kabushiki Kaisha. Protective connection device in electrode wiring of electrolytic cells. 3,644,862, 2-22-72, Cl. 337-408.
 Otake, Sugako: *See—*
 Shimizu, Tetsuji; Yoshida, Takaomi; Otake, Sugako; Sumida, Hajime; and Ueno, Sinichi, 3,694,690.
 Otaki, Makoto: *See—*
 Shibahara, Yasuo; Shimoyama, Yasohachi; and Otaki, Makoto, 3,692,877.
 Otala, Matti N. T. Method for determining the gram size distribution of ferromagnetic material. 3,706,028, 12-12-72, Cl. 324-34.00r.
 Otani, Akemasa. Iron scrap bundles. 3,674,444, 7-4-72, Cl. 29-186.000.
 Otani, Akemasa. Steel-making process using iron scrap bundles. 3,681,048, 8-1-72, Cl. 75-44.00s.
 Otani, Hiroshi: *See—*
 Yukami, Noboru; Otani, Hiroshi; and Kurokawa, Hideo, 3,665,264.
 Otani, Sugio: *See—*
 Tabata, Yoneho; Oizumi, Chihiro; and Otani, Sugio, 3,681,023.
 Otani, Yasuhiko; Ikegami, Yoshio; and Fujio, Tadami, to Kobe Steel, Ltd. Continuous take-up apparatus for a linear product. 3,684,202, 8-15-72, Cl. 242-25.000.
 Otani, Yasuhiko, to Kobe Steel, Ltd. Apparatus for continuously winding up a linear product such as wire. 3,693,898, 9-26-72, Cl. 242-25.00a.
 Otani, Yasuhiko, to Kobe Steel, Ltd. Apparatus for continuously winding up a linear product such as wire. 3,695,525, 10-3-72, Cl. 242-25.00a.
 Otani, Yasuhiko; and Ikegami, Yoshio, to Kobe Steel, Ltd. Apparatus for continuously winding up linear products such as wire. 3,695,526, 10-3-72, Cl. 242-25.00a.
 Oteki, Yuzo, to Beltek Kabushiki Kaisha. Cassette mounting and dismounting device. 3,669,456, 6-13-72, Cl. 274-4.
 Otero, Richard J. Broadcast communication system including a plurality of subscriber stations for selectively receiving and reproducing one or more of a plurality of transmitted programs each having a unique identifying code associated therewith. 3,696,29, 10-3-72, Cl. 325-55.000.
 Othmar, Bruhwiler: *See—*
 Sole, Ramon; and Othmar, Bruhwiler, 3,638,686.
 Othmer, Donald F. Method for producing pure water from sea water and other solutions by flash vaporization and condensation. 3,692,634, 9-19-72, Cl. 203-11.000.
 Othu, Ikuro: *See—*
 Koide, Tsuyoshi; and Othu, Ikuro, 3,673,741.
 Otis Elevator Company: *See—*
 Broun, Morrison John, 3,631,942.
 Gibson, George William, 3,707,205.
 Johns, Calvin Edward, 3,638,762.
 Lusti, John; and Reid, William Paul, 3,688,874.
 Lusti, John; and Doane, John Charles, 3,703,222.
 Showalter, John Melville, 3,653,467.
 Taylor, Alastair Charles, 3,653,484.
 Yasuda, Kentaro, 3,672,214.
 Otis Engineering Corporation: *See—*
 Adkins, Joel E., 3,642,069.
 Carroll, Albert W., 3,638,723.
 Deaton, Thomas Michael, 3,664,427.
 Fredd, John V.; and Tamplen, Jack W., 3,654,962.
 Kelly, Warner M.; and Fredd, John V., 3,659,624.
 Pearce, Joseph L., Jr., 3,646,996.

- Raulins, George Max, 3,680,637.
 Raulins, George Max, 3,703,193.
 Sizer, Phillip S.; and Schwegman, Harry E., 3,637,012.
 Sizer, Phillip S., 3,654,995.
 Sizer, Phillip S.; and Carroll, Albert W., 3,666,012.
 Sizer, Phillip S.; and Schwegman, Harry E., 3,669,190.
 Sizer, Phillip S., 3,675,720.
 Sizer, Phillip S., 3,677,345.
 Taylor, Donald F., Jr., 3,696,868.
 Taylor, Frank H.; and Kelly, Warner M., 3,642,070.
 Young, Carter R.; and Mc Casland, Leonard, 3,687,202.
 Otis, Marshall V., to Eastman Kodak Company. Modacrylic fibers containing compounds of the azulene series. 3,644,272, 2-22-72, Cl. 260-41.
 Otmar, Zajicek: See—
 Possberg, Jobst; Rostock, Kai; Nickl, Eligius; Otmar, Zajicek; and Helmut, Klapp, 3,696,079.
 Otoi, Kiyoshi: See—
 Fujita, Isamu; and Otoi, Kiyoshi, 3,652,549.
 Otomo, Kazuhiro: See—
 Nakano, Sohta; Fujimoto, Kazumitsu; Otomo, Kazuhiro; Yokota, Toshiyuki; and Shindo, Hiroshi, 3,686,002.
 Otomo, Yoshiro: See—
 Kano, Tsuyoshi; Otomo, Yoshiro; and Yamamoto, Hajime, 3,655,577.
 O'Toole, John J., to RCA Corporation. Compensated television matrix amplifiers. 3,663,745, 5-16-72, Cl. 178-5.4.
 O'Toole, Robert J.: See—
 Ellico, Patrick, 3,642,275.
 Otoshi, Tom Y.: See—
 United States of America, National Aeronautics and Space Administration, 3,702,979.
 Otoupalova, Jaroslava: See—
 Chromacek, Richard; Meinhold, Leopold; Otoupalova, Jaroslava; and Kruntorad, Vlastimil, 3,632,381.
 Otrhalek, Joseph V.; and Skinner, Harold A., to BASF Wyandotte Corporation. Electrocleaner composition and process. 3,663,386, 5-16-72, Cl. 204-141.000.
 Otrók, Anatoly Ilich: See—
 Vinogradov, Gleb Andreevich; Katrus, Oleg Alexandrovich; and Otrók, Anatoly Ilich, 3,689,209.
 Otsetov, Vassil Christov: See—
 Tsvetkov, Krum Kostov; Ezekiev, Ezekiya Gueorguev; Nikolov, Petko Petrov; and Otsetov, Vassil Christov, 3,674,991.
 Otstot, Roger S.; and Mottern, John W., to Monsanto Company. Method and apparatus for improved extrusion of essentially inviscid jets. 3,645,657, 2-29-72, Cl. 425-72.
 Otsubo, Akira: See—
 Utsumi, Isamu; Watanabe, Toshiro; Kohno, Keiichi; Daira, Isamu; and Otsubo, Akira, 3,644,385.
 Otsuka, Eiji; Kanai, Kazumichi; and Inoue, Shigeru, to Mitsui Toatsu Chemicals, Incorporated. Method for synthesizing urea. 3,686,305, 8-22-72, Cl. 260-555.00a.
 Otsuka, Hiromi: See—
 Okada, Hiroshi; Osakada, Atsushi; Minami, Satoyuki; Aoki, Toshikazu; Hisamori, Tetsuo; Koyanagi, Hironobu; and Otsuka, Hiromi, 3,692,602.
 Otsuka, Ichiro: See—
 Tsuruta, Masami; Ito, Shinji; and Otsuka, Ichiro, 3,694,522.
 Otsuka Kagaku Yakuhin Kabushiki Kaisha: See—
 Tani, Isamu; Otsuka, Masatomi; Osaki, Yoshiyasu; and Hagino, Takuo, 3,674,646.
 Otsuka, Masatomi: See—
 Tani, Isamu; Otsuka, Masatomi; Osaki, Yoshiyasu; and Hagino, Takuo, 3,674,646.
 Otsuka Pharmaceutical Company Limited: See—
 Dohi, Tadahiyo; Yu, Taneyoshi; Nakagawa, Takayuki; and Hiraoka, Kozi, 3,651,132.
 Otsuka, Shigenobu: See—
 Fujino, Kiyoshi; Otsuka, Shigenobu; Kaichi, Tetuo; Sugiyama, Takaharu; and Tamura, Koji, 3,693,385.
 Otsuka, Shigenobu: See—
 Sawaki, Teiji; and Otsuka, Shigenobu, 3,649,400.
 Otsuka, Takeshi, to Nippon Mining Co., Ltd. Process for the separation of zirconium and hafnium. 3,658,466, 4-25-72, Cl. 23-22.
 Otsuka, Tetsuro: See—
 Ota, Isao; and Otsuka, Tetsuro, 3,689,400.
 Otsuka, Tetsuro; Ota, Isao; and Ogo, Shinichi, to Matsushita Electric Industrial Co., Ltd. Liquid developers for electrostatic photography. 3,639,246, 2-1-72, Cl. 252-62.1.
 Otsuka, Tokio; Sasabe, Shozo; and Nakagawa, Hiroyuki, to Sumitomo Chemical Company, Ltd. Preparing water insoluble anthraquinone dyestuffs. 3,668,219, 6-6-72, Cl. 260-325.000.
 Otsuka, Yoshiyasu: See—
 Wakazono, Yoshikazu; Ogawa, Terushige; and Otsuka, Yoshiyasu, 3,664,897.
 Otsuka, Yuichi: See—
 Furuta, Taizo; Otsuka, Yuichi; and Mizukawa, Kiyoshi, 3,642,137.
 Otsuka, Yuzuru: See—
 Ishida, Moriyoshi; Hori, Terutsugu; Otsuka, Yuzuru; Sato, Kunimitsu; Inoue, Katsuyuki; and Ogata, Yoshio, 3,702,341.
 Otsuke, Shinichiro: See—
 Okumura, Shinji; Otsuke, Shinichiro; Yamanoi, Akio; Yoshinaga, Fumihiko; Honda, Takeshi; Kubota, Koji; and Tsuchida, Takayasu, 3,660,235.
 Otsuki, Keizo: See—
 Sakamoto, Yuzaburo; and Otsuki, Keizo, 3,659,821.
 Otsuki, Susumu; and Miyahonara, Isao, to Toyo Soda Manufacturing Co., Ltd. Stabilization of acrylic acid or esters thereof. 3,666,794, 5-30-72, Cl. 260-486.00r.
 Otsuki, Susumu; Hori, Kyoichi; and Miyahonara, Isao. Polymerization inhibition of acrylic acid. 3,674,651, 7-4-72, Cl. 203-8.000.
 Ott Chemical Company, The: See—
 Babad, Harry, 3,681,457.
 Rennells, Kenneth C., 3,644,461.
 Rennells, Kenneth C., 3,663,614.
 Ott, Dieter. Stop actuation device in organs. 3,646,241, 2-29-72, Cl. 84-1.03.
 Ott, Eugene G., to Dresser Industries, Inc. Soft formation insert bits. 3,696,876, 10-10-72, Cl. 175-374.000.
 Ott, Hanns: See—
 Kappius, Friedrich; Kristen, Reiner; Ott, Hanns; and Reinholtz, Heinz, 3,691,414.
 Ott, Hanns; and Latussek, Hanns Peter, to Siemens Aktiengesellschaft. Thrust bearing for midget motors. 3,705,752, 12-12-72, Cl. 308-159.000.
 Ott, Hans: See—
 Galantay, Eugene E.; and Ott, Hans, 3,641,133.
 Hardtmann, Goetz E.; and Ott, Hans, 3,644,354.
 Hardtmann, Goetz E.; Ott, Hans; and Sandoz-Wander, Inc., 3,663,698.
 Petzlik, Theodor; Hofmann, Albert; Schenk, Hansruedi; Troxler, Franz; Frey, Albert; and Ott, Hans, 3,647,801.
 Ott, Hans, to Sandoz-Wander, Inc. Morpholino-1-substituted-2(1H)-quinazolinones. 3,642,791, 2-15-72, Cl. 260-247.2.
 Ott, Hans, to Siemens Aktiengesellschaft. Device for converting a reciprocating motion into a stepwise rotary motion. 3,690,191, 9-12-72, Cl. 74-142.000.
 Ott, Henry Walter: See—
 Leifer, Noel Arthur; and Ott, Henry Walter, 3,697,016.
 Ott, Howard F.; and Carmen, Jerry, to Eastman Kodak Company. Ultrasonic cleaning of a web of film. 3,635,762, 1-18-72, Cl. 134-1.
 Ott, Jack J.: See—
 Matthews, Russell E.; and Ott, Jack J., 3,634,066.
 Ott, John, Laboratories, Inc.: See—
 Ott, John Nash, 3,688,121.
 Ott, John Nash, to Ott, John, Laboratories, Inc. Shielded optical system for viewing an illuminated device producing penetrating radiation. 3,688,121, 8-29-72, Cl. 250-108.00r.
 Ott, Karl-Heinz: See—
 Muller, Karl-Heinz; Rohr, Harry; and Ott, Karl-Heinz, 3,704,071.
 Von Bonin, Wulf; Niermann, Horst; and Ott, Karl-Heinz, 3,651,171.
 Ott, Karl-Heinz; Schuster, Herbert; Meckel, Walter; Dinges, Karl; and Muller, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Emulsion polymerization employing azoacyl catalysts. 3,641,209, 2-8-72, Cl. 260-880.
 Ott, Marvin J., Jr.: See—
 Western, Herbert W.; Gronquist, Ernest C., Jr.; Ott, Marvin J., Jr.; and Gunther, Donald E., 3,656,720.
 Ott, Reuben C., to Du Pont de Nemours, E. I., and Company. Process for the preparation of globular sodium bisulfate. 3,690,825, 9-12-72, Cl. 423-264.000.
 Ott, Richard J., to Respond Inc. Automatic ladder. 3,690,517, 9-12-72, Cl. 222-358.000.
 Ott, Robert W., Jr., to Rockford Servo Corporation. Web edge sensing and guiding apparatus. 3,682,362, 8-8-72, Cl. 226-21.000.
 Ott, Roy John; and Miller, Harold Nelson, to Esso Research and Engineering Company. Flow characteristics of waxy petroleum residuum. 3,655,767, 4-11-72, Cl. 260-592.
 Ott, Willy: See—
 Ahlgrim, Michael; Kandler, Joachim; Lenz, Hans-Joachim; Mictens, Gerhard; and Ott, Willy, 3,647,514.
 Ott, Wolfgang: See—
 Schilling, Werner; and Ott, Wolfgang, 3,671,166.
 Ott, Zdenek: See—
 Kliment, Karel; Vacik, Jiri; Ott, Zdenek; Majkus, Vladimir; Stol, Miroslav; Stoy, Vladimir; and Wichterle, Otto, 3,689,634.
 Ottavan, Gerald J. Take-up mechanism for paper strip. 3,679,149, 7-25-72, Cl. 242-75.500.
 Ottaviano, Quintino, to Montecatini Edison S.p.A. Process for dyeing manufactured articles of polyamidic resins. 3,677,689, 7-18-72, Cl. 8-4.000.
 Ottaviano, John James. Alternatively occupant propelled or motor driven roundabout. 3,672,669, 6-27-72, Cl. 272-33.00b.
 Ottawa, Norbert: See—
 Schafer, Gustav; and Ottawa, Norbert, 3,663,539.

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 Ottenheim, Adrian: See—
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 Graham, Paul R.; and Ottinger, August F., 3,632,424.
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 Ottmann, Gerhard; and Lilienbeck, Clemens, to Herberts, Kurt, Dr., & Co. vorm. Herberts Otto Louis. Packaging foil and process for producing same. 3,656,998, 4-18-72, Cl. 117-75.
 Ottmann, Gerhard F.: See—
 Kober, Ehrenfried H.; and Ottmann, Gerhard F., 3,636,104.
 Otto, Alfred; Klassen, Horst; and Steiner, Daniel, to Bergische Stahl-Industries and Schweizerische Industrie-Gesellschaft. Self-adjusting braking apparatus. 3,645,364, 2-29-72, Cl. 188-196.
 Otto Bilz, Werkzeugfabrik: See—
 Fauth, Otto, 3,672,692.
 Otto Bock Orthopädische Industrie KG: See—
 Glabiszewski, Richard, 3,659,294.
 Otto, C., Dr., & Comp. G.m.b.H.: See—
 Grumm, Walter; and Thubauville, Heinz, 3,705,087.
 Pries, Erich E. W., 3,675,797.
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 Otto, Dr., C., & Comp. G.m.b.H.: See—
 Pries, Erich E. W., 3,672,519.
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 Roeser, John O., 3,684,250.
 Otto, Ferdinand P.; and Logothetis, Andreas, to Mobil Oil Corporation. Coordinated complexes of nitrogenous compounds. 3,642,847, 2-15-72, Cl. 260-429.9.
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 Otto, George Freed, to Amchem Products, Inc. Prepaint treatment for zinciferous surfaces. 3,660,172, 5-2-72, Cl. 148-6.2.
 Otto, Hans-Werner: See—
 Hoffmann, Horst; Krauch, Carl Heinrich; Otto, Hans-Werner; and Volkert, Otto, 3,674,494.
 Otto, Heinz: See—
 Ganter, Wolfgang; Otto, Heinz; and King, Josef, 3,703,805.
 Otto, Herbert; and Schonberger, Helmut, to General Motors Corporation. Motor vehicle exhaust pipes. 3,666,037, 5-30-72, Cl. 180-64.00a.
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 Boucher, Raymond Claude Emile; Otto, Jean-Louis Marie; and Taxil, Andre Marc Victorin, 3,634,717.
 Otto, Julian A.: See—
 Sweeney, Richard F.; Khan, Aziz Urrehman; Price, Alson K.; Jones, Edward Stephen; and Otto, Julian A., 3,674,800.
 Otto, Noel A., to Automatic Switch Co. Self-recycling actuator and valve incorporating it. 3,667,502, 6-6-72, Cl. 137-624.140.
 Otto, Rigobert: See—
 Kunitz, Friedrich Wilhelm; Mader, Helmut; and Otto, Rigobert, 3,632,347.
 Marx, Paul; Heb, Ulrich; Otto, Rigobert; Puschel, Walter; and Pelz, Willibald, 3,632,345.
 Schulte, Walter; Boie, Immo; Mader, Helmut; and Otto, Rigobert, 3,684,515.
 von König, Anita; Kabbe, Hans-Joachim; Mader, Helmut; Otto, Rigobert; and Reuss, Helmut, 3,692,527.
 Otto, Rigobert; Pankow, Gerrit; De Cat, Arthur Henri; Puschel, Walter; and Pelz, Willibald, to Agfa-Gevaert Aktiengesellschaft. Color silver halide photographic material containing yellow-colored magenta-forming color coupler. 3,671,257, 6-20-72, Cl. 96-10.000.
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 Spaw, Eugene S.; McGrath, Paul F.; and Otto, Stanley W., 3,669,014.
 Otto Wagner, Wuppertal-Elberfeld: See—
 Frommer, Werner; and Otto Wagner, Wuppertal-Elberfeld, 3,660,239.
 Otto, Walter, to Gerot Pharmazutika Dr. Walter Otto K.G. Theophylline and theobromine substituted amines. 3,637,696, 1-25-72, Cl. 260-256.
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 Lutz, Leland H.; Heileman, Richard C.; Upstone, Harlan R.; Leonard, John M.; and Ottow, Melvin A., 3,639,950.
 Otuki, Katumi: See—
 Naoki, Keigo; and Otuki, Katumi, 3,681,658.
 Ouba, Kenichi: See—
 Matsushita, Hidekatsu; and Ouba, Kenichi, 3,695,801.
 Ouchi, Hiromu: See—
 Nishida, Masamitsu; and Ouchi, Hiromu, 3,640,866.
 Nishida, Masamitsu; and Ouchi, Hiromu, 3,649,539.
 Nishida, Masamitsu; and Ouchi, Hiromu, 3,649,540.
 Nishida, Masamitsu; and Ouchi, Hiromu, 3,652,412.
 Nishida, Masamitsu; and Ouchi, Hiromu, 3,669,887.
 Ouchi, Hiromu; and Nishida, Masamitsu, to Matsushita Electric Industrial Co., Ltd. Piezoelectric ceramic compositions. 3,652,413, 3-28-72, Cl. 252-62.9.
 Ouchi, Teruo, to Olympus Optical Co., Ltd. Endoscope. 3,703,169, 11-21-72, Cl. 128-6.000.
 Oude Alink, Bernardus A.: See—
 Redmore, Derek; and Oude Alink, Bernardus A., 3,697,221.
 Oudenhoven, Theodorus Antonio Gerardus. Tool for placing marks in the ears of animals. 3,641,804, 2-15-72, Cl. 72-409.
 Ouellette, Herve J.: See—
 O'Brien, John F.; and Ouellette, Herve J., 3,662,646.
 Ouellette, Marcel C.: See—
 Girard, Laurent H.; Hockmeyer, Clive E.; and Ouellette, Marcel C., 3,643,316.
 Ouellette, Roland J.: See—
 Coveney, Donald B.; and Ouellette, Roland J., 3,650,036.
 Oughton, John Francis, to Glaxo Laboratories Limited. Recovery of pure cephalixin from acidic reaction mixtures. 3,692,781, 9-19-72, Cl. 260-243.00c.
 Ouimet, Emil R. Shoe sole and method of making it. 3,664,040, 5-23-72, Cl. 36-25.000.
 Oulman, Loren C. Flexing tire traction device. 3,696,852, 10-10-72, Cl. 152-220.000.
 Oulton, Kenneth: See—

- Lawson, Robert; and Oulton, Kenneth, 3,652,063.
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- Oustad, Thomas B.: See—
- Rickel, William E.; Oustad, Thomas B.; and Harper, Tommie B., 3,631,660.
- Outboard Marine Corporation: See—
- Arff, Uwe F., 3,670,600.
- Blanchard, Clarence E., 3,688,733.
- Boerma, Michael J., 3,695,238.
- Booty, Robert A.; and Borst, Gaylord M., 3,651,709.
- Cavil, David T., 3,646,377.
- Cavil, David T.; Krueger, William R.; and Schmidt, Henry J., 3,662,243.
- Cavil, David T., 3,667,441.
- Dahl, Einar S., 3,646,739.
- Dahl, Einar S., 3,696,595.
- Densow, Ulrich Otto, 3,649,794.
- Effhardt, James F.; and Irgens, Finn T., 3,657,867.
- Effandt, James F., 3,648,445.
- Evinrude, Ralph S., 3,671,071.
- Hagen, Marcus W., 3,666,218.
- Holtermann, Theodore J., 3,645,360.
- Irgens, Finn T., 3,669,162.
- Irgens, Finn T., 3,682,147.
- Jespersen, Herbert A., 3,688,858.
- Kolorz, Bruno, 3,687,124.
- Kuony, Don F.; and Pollari, Howard M., 3,667,431.
- Lambrecht, Ralph E., 3,701,611.
- Lassanske, George G., 3,662,612.
- McAuliffe, Gerald N., 3,692,270.
- Milburn, Hudson M., 3,635,264.
- Miller, George E.; and Kalb, Paul A., 3,692,006.
- Niles, Donald E., 3,706,363.
- Puffer, Edward W.; and Duncan, Howard K., 3,667,304.
- Quiram, Ronald G.; and Eichner, Don W., 3,661,036.
- Rothi, Raymond C., 3,662,837.
- Rothi, Raymond C.; and Wright, William D., 3,695,713.
- Shimanckas, William J., 3,631,833.
- Shimanckas, William J., 3,669,057.
- Shimanckas, William J., 3,669,058.
- Trapp, Robert L., 3,680,926.
- Watkins, Lucius D., 3,661,506.
- Wick, Gerald H.; and Holtermann, Theodore J., 3,647,024.
- Wooters, Eldon W., 3,661,430.
- Outcalt, Dale E. Door mounted cervical variable weight traction unit. 3,654,922, 4-11-72, Cl. 128-75.
- Outokumpu Oy: See—
- Bryk, Petri; Haani, Martti; Honkasalo, Jorma B.; Kinnunen, Jorma; Lindsjo, Olle; Nyholm, Erik; Poijarvi, Jaakko; Rastas, Jussi; and Kangas, Juhani, 3,677,696.
- Bryk, Petri; Baldur; Honkasalo, Jorma Bruno; and Malmstrom, Rolf Einar, 3,681,046.
- Malmstrom, Rolf Einar; and Tuominen, Tapio Kalevi, 3,681,054.
- Malmstrom, Rolf Einar Pori; and Makipirtti, Simo Antero Iivari Nakkila, 3,633,649.
- Vartiainen, Osmo O., 3,677,327.
- Outred, Dennis James: See—
- Mamalis, Patrick; and Outred, Dennis James, 3,682,912.
- Outtrup, Helle: See—
- Aunstrup, Knud; Andresen, Otto; and Outtrup, Helle, 3,674,643.
- Ouyagi, Yashichi: See—
- Asano, Hidejiro; and Ouyagi, Yashichi, 3,677,797.
- Oval Engineering Co., Ltd.: See—
- Numata, Hide; and Nakahara, Kazuyuki, 3,687,363.
- Oval Kiki Kogyo Kabushiki Kaisha: See—
- Aoyama, Shoichi; and Nomoto, Shigeichi, 3,651,737.
- Ovalstrapping, Inc.: See—
- Pasic, James A., 3,669,486.
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- Ovelson, Kenneth Vernon. Test hole plug. 3,674,088, 7-4-72, Cl. 166-192.000.
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- Over, John E.: See—
- Metzger, Sidney H., Jr.; and Over, John E., 3,637,583.
- Over, William Roderick, to AMP Incorporated. Method of connecting pairs of wires. 3,639,977, 2-8-72, Cl. 29-628.
- Overath, Albrecht: See—
- Halberschmidt, Friedrich; and Overath, Albrecht, 3,641,711.
- Overbey, William K., Jr.: See—
- Pasini, Joseph, III; Overbey, William K., Jr.; and Slagle, Franklin D., 3,636,751.
- Overbury, Francis Giles: See—
- Earp, Charles William; and Overbury, Francis Giles, 3,633,204.
- Earp, Charles William; and Overbury, Francis Giles, 3,670,337.
- Overby, Charles A. Injection and distribution unit for a lawn sprinkler system. 3,669,357, 6-13-72, Cl. 239-310.000.
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- Overby, Sune Lambert, to Telefonaktiebolaget L M Ericsson. Semiconductor microphone. 3,639,679, 2-1-72, Cl. 179-110.
- Overdyck, Dieter; and Lehner, Fritz, to Mayer & Cie. Yarn guide for circular knitting machines. 3,643,476, 2-22-72, Cl. 66-111.
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- Denner, David L.; and Warner, Herbert E., 3,666,121.
- Lelano, Don H.; and Harris, Billy G., 3,683,453.
- Luby, John J.; and Pemberton, Paul E., 3,640,332.
- Smith, Vernon O.; and Binns, John W., 3,642,314.
- Smith, Vernon O.; and Dietrich, Alfred T., 3,665,997.
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- Dieter, Donald P., 3,636,578.
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- Adams, Robert J.; and Overhults, Wendell C., 3,663,501.
- Overlach, Knud: See—
- Peter, Kurt; Huhne, Gerd; Kauer, Harald; Overlach, Knud; and Schlicker, Volker, 3,638,212.
- Overley, R. Dean: See—
- Chapman, Douglas W.; McKellin, Wilbur H.; and Overley, R. Dean, 3,656,982.
- Overley, Richard Dean: See—
- Chapman, Douglas W.; Overley, Richard Dean; Rands, Robert D., Jr.; and Schreiber, Ronald S., 3,647,492.
- Overly, Inc.: See—
- Overly, William F.; and Pagel, Kenneth J., 3,705,676.
- Overly, Wm. F.; and Pagel, Kenneth J., 3,650,043.
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- Overman, Joseph De Witt: See—
- Blake, Ralph Kingsley; and Overman, Joseph De Witt, 3,652,279.
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- Bunting, Arthur; and Heighton, Arthur Victor, 3,645,498.
- Overstreet, Scott M., to Sylvania Electric Products, Inc. Single sensor motor vehicle velocity detector. 3,656,059, 4-11-72, Cl. 324-173.
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- Fathauer, George H., 3,701,390.
- Overton, Harold L. Method for determining pressure conditions in a well bore from shale samples. 3,670,829, 6-20-72, Cl. 175-50.000.
- Overton, Harold L. Method and apparatus for forming a shale cake and measuring the resistivity and density thereof. 3,672,228, 6-27-72, Cl. 73-432.00r.
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- Overwien, Hermann: See—
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- Mueller, Herbert; and Overwien, Hermann, 3,686,321.
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- Overy, Lester R., to Tokheim Corporation. Instrument drive system for fluid metering. 3,670,317, 6-13-72, Cl. 340-198.000.
- Ovitron Corporation: See—
- Jaeger, Walter, 3,647,360.
- Seelinger, Richard W., 3,664,309.
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- Feinleib, Julius; Klose, Peter H.; and Ovshinsky, Stanford R., 3,678,852.
- Fleming, Gordon R.; and Ovshinsky, Stanford R., 3,647,664.
- Klose, Peter H.; and Ovshinsky, Stanford R., 3,659,936.
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- Owarfort, Rune T.: See—
- Magnusson, Kjell I.; and Owarfort, Rune T., 3,664,531.
- Owatonna Manufacturing Company, Inc.: See—
- Baumgartner, Darrell E., 3,647,011.
- Fisher, Ivan E., 3,698,166.
- Owatonna Tool Company: See—
- Boers, Jan H.; Rutherford, Robert C.; and Loquai, John R., 3,650,013.
- Owczarski, William A.: See—
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- Owen, Keith: See—
- Delafeld, David J.; Edwards, Alan H.; and Owen, Keith, 3,687,644.
- Delafeld, David James; Edwards, Alan H.; and Owen, Keith, 3,658,707.
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- Owen, Robert E.: See—
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- Quinn, James A.; Owen, William J.; and Terpstra, Garry, 3,702,569.
- Owen, William John: See—
- Jonas, David Andrew; and Owen, William John, 3,687,995.
- Jonas, David Andrew; and Owen, William John, 3,694,427.
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- Owens-Corning Fiberglas Corporation: *See—*
- Bastone, Andrew L.; Boeker, Justin R.; and Klimpl, Fred E., 3,655,468.
- Belue, James C.; and Jones, Weston C., 3,680,218.
- Benson, Gustav E.; and Pisani, James M., 3,672,148.
- Canfield, Sheldon A., 3,650,717.
- Caroselli, Remus F.; Mastrianni, Vincenzo; and Boyes, David W., 3,632,380.
- Caroselli, Remus F.; Mastrianni, Vincenzo; and Boyes, David W., 3,649,333.
- Cox, Melvin R., 3,634,699.
- Cunningham, Cecil R.; and Rushton, James C., 3,687,381.
- Cunningham, Cecil R.; Beach, William R.; and Brinkley, Ray D., 3,693,338.
- Deardurff, Lawrence R., 3,644,866.
- Dillon, James J., 3,653,949.
- Flautt, Martin C.; Moran, Leland G.; and McCombs, Frank P., 3,676,287.
- Froberg, Magnus L., 3,633,886.
- Gelin, Robert J., 3,644,132.
- Gelin, Robert J., 3,659,790.
- Gelin, Robert J., 3,667,891.
- Gelin, Robert J., 3,694,541.
- Gordon, Jeanne E., 3,679,457.
- Hansen, James H.; Leedy, Nelson J.; and Slonaker, Robert O., 3,685,978.
- Harris, Jesse L., 3,649,235.
- Klink, Jerome P.; and Fulk, Walter F., 3,644,109.
- Marsh, Henry N., Jr.; and Gano, Barclay P., 3,642,560.
- Marzocchi, Alfred, 3,631,667.
- Marzocchi, Alfred, 3,650,810.
- Marzocchi, Alfred; and Horton, Richard C., 3,650,818.
- Marzocchi, Alfred; and Brown, Alfred Winsor, 3,658,108.
- Marzocchi, Alfred, 3,658,571.
- Marzocchi, Alfred; and Garbin, Albert, 3,660,974.
- Marzocchi, Alfred, 3,673,150.
- Marzocchi, Alfred, 3,674,724.
- Marzocchi, Alfred; Benson, Gustav E.; and Leach, Robert E., 3,675,704.
- Marzocchi, Alfred, 3,679,507.
- Marzocchi, Alfred, 3,681,039.
- Marzocchi, Alfred, 3,682,217.
- Marzocchi, Alfred; and Brown, Alfred Winsor, 3,682,221.
- Marzocchi, Alfred, 3,692,186.
- Marzocchi, Alfred, 3,705,052.
- Marzocchi, Alfred; and Janetos, Nicholas S., 3,705,073.
- Marzocchi, Alfred, 3,705,075.
- Morrison, Albert R.; and Haynes, Harold L., 3,664,855.
- Oswald, Leo Alex, 3,666,431.
- Pearson, Lee E.; and Clark, Jeri O., 3,661,294.
- Pearson, Lee E., 3,668,740.
- Pearson, Lee E., 3,673,028.
- Pearson, Lee E., 3,680,727.
- Pearson, Lee E.; and Clark, Jeri O., 3,700,512.
- Philipps, Thomas E., 3,645,707.
- Pitt, Richard E., 3,704,878.
- Preston, Jerome A., 3,644,141.
- Preston, Jerome A.; and Davis, Carlton J., Sr., 3,664,982.
- Preston, Jerome A.; and Davis, Carlton J., Sr., 3,705,125.
- Rees, Vernon C., 3,641,514.
- Russell, Robert G., 3,644,108.
- Russell, Robert G., 3,676,094.
- Russell, Robert G., 3,695,858.
- Schroeder, Charles F., 3,675,702.
- Schroeder, Charles F., 3,707,120.
- Scott, James W., 3,640,793.
- Shannon, Richard F., 3,661,663.
- Shannon, Richard F., 3,702,798.
- Siefert, August C., 3,702,240.
- Smith, Irving N.; and Pfeffer, Jack R., 3,690,852.
- Smith, Roy E.; and Dunn, John W., 3,653,860.
- Smith, Roy E., 3,697,008.
- Smock, George E., 3,681,157.
- Smucker, Clayton A., 3,704,199.
- Stalego, Charles J.; and Wyckoff, Robert E., 3,653,861.
- Stalego, Charles J., 3,672,857.
- Stalego, Joseph P., 3,634,054.
- Stalego, Joseph P., 3,676,095.
- Stream, Ralph M., 3,701,642.
- Trethewey, William C., 3,649,231.
- Uffner, William E., 3,707,399.
- Ullman, William L.; Baxter James C.; Pearson, Arthur J.; Davis, Robert E.; and Hullhorst, William B., 3,642,034.
- Ward, John E., 3,652,326.
- Ward, John E., Jr., 3,702,276.
- Wong, Robert; and Hill, Homer G., 3,669,638.
- Owens-Illinois, Inc.: *See—*
- Allegier, Guy H.; and Foote, James B., 3,699,902.
- Amberg, Stephen W.; Doherty, Thomas E.; and Fikert, Jacob J., 3,632,252.
- Amberg, Stephen W., 3,661,075.
- Arnold, Emmons S., 3,666,228.
- Ashby, Carl T.; Berry, James W.; and Deutschman, Archie J., Jr., 3,701,648.
- Baak, Nils Tryggve E. A., 3,650,781.
- Banyas, John D.; and Wallington, Frederick L., 3,637,074.
- Barber, Stephen W.; and Nelson, William F., 3,634,711.
- Bayer, John W., 3,666,519.
- Belcher, Samuel L., 3,685,461.
- Biglin, Duane O.; and Grothjan, Jerome R., 3,634,182.
- Bode, Wolfgang W.; Dunlap, Glenn H.; Kobylak, Anthony M.; Richards, Raymond S.; and Pfander, Lawrence V., 3,654,680.
- Bode, Wolfgang W.; Dunlap, Glenn H.; Kobylak, Anthony M.; Richards, Raymond S.; and Pfander, Lawrence V., 3,684,468.
- Bouvier, Anton, 3,649,089.
- Bowser, Gary L.; and Lenhardt, Roger D., 3,661,189.
- Boyer, Joseph E., 3,677,454.
- Britt, Tomas M., 3,707,227.
- Budzynski, Leonard M.; and Leuck, Donald D., 3,665,401.
- Burroughs, Robert O., 3,684,119.
- Busdiecker, Robert A.; Rapp, James E.; and Babcock, Clarence L., 3,661,546.
- Byrd, Carl; and Mueller, Martin, 3,659,744.
- Capuano, Charles H., 3,637,073.
- Carl, David G.; Kietzman, Richard C.; and Knapp, William A., 3,631,837.
- Chapman, George C.; and Le Sueur, James T., 3,656,924.
- Chari, Nallan C. S.; Charos, Andrew D.; and Walker, Harry D., Jr., 3,634,187.
- Chari, Nallan C. S.; Olson, Kermit E.; and Shick, Philip E., 3,647,363.
- Clark, Robert N., 3,701,658.
- Criss, Donald H.; and Pollitt, Erwin P., 3,652,751.
- Criss, Donald H.; and Kontz, Robert F., 3,659,486.
- Criss, Donald H.; and Kontz, Robert F., 3,682,026.
- Cummings, John P.; and Gomoll, Timothy J., 3,698,643.
- Denlinger, Carl E., 3,689,183.
- Di Frank, Frank J.; and Maze, Glenn W., 3,690,981.
- Dietz, Raymond Louis, 3,673,092.
- Dietz, Raymond Louis, 3,703,386.
- Dray, Robert F.; and Lawrence, Donald L. (said Lawrence as-
sor. to), 3,650,652.
- Dreps, James R.; and Miller, Ira H., 3,653,559.
- Dunlap, Glenn H.; Kobylak, Anthony M.; and Miller, John E., 3,635,687.
- Dunlap, Glenn H., 3,656,925.
- Einfalt, Arthur C.; and Osborn, Richard A., 3,684,385.
- Elser, William F., 3,705,563.
- Ernsthausen, Roger E., 3,634,719.
- Gagnon, Donald W.; and Tillman, James J., 3,647,510.
- Gagnon, Donald W., 3,707,397.
- Galeano, Sergio F., 3,655,343.
- Galeano, Sergio F., 3,670,968.
- Galeano, Sergio F., 3,680,796.
- Gray, Don N.; and Scheuer, Raymond I., 3,632,365.
- Gray, Don N., 3,658,611.
- Gray, Don N.; and Grier, John D., 3,661,615.
- Gray, Don N.; and Mueller, Bruce M., 3,663,155.
- Graybill, Harold W.; Heider, James E.; and Sponseller, Harold P., 3,679,341.
- Grier, John D., 3,698,314.
- Grier, John D., 3,700,436.
- Grier, John D., 3,701,184.
- Grier, John D.; and Hall, Maclin S., 3,706,552.
- Hall, Maclin S., 3,649,116.
- Hall, Maclin S.; and Moore, Robert H., 3,661,257.
- Hall, Maclin S., 3,686,686.

- Harris, David S., 3,683,677.
- Heaton, Richard A., 3,642,461.
- Heaton, Richard A.; and Sachs, Maurice J., 3,647,410.
- Heaton, Richard A.; and Mallory, James D., 3,703,363.
- Heffran, Vernon C., 3,685,679.
- Jasinski, Amy L., 3,642,693.
- Jasinski, Amy L.; and Thomas, Ian M., 3,654,058.
- Johnson, William E., 3,662,184.
- Johnson, William E.; and Schmearsal, Larry J., 3,673,460.
- Jones, Chandler H., 3,643,856.
- Keller, Robert H., 3,672,860.
- Kennedy, Leo J., 3,694,609.
- Kiel, Robert H., 3,666,539.
- Kummerle, Herman Fred, 3,656,901.
- Lauffer, Fred E., 3,697,029.
- Lee, Haynes A., Jr.; and Rapp, Charles F., 3,640,890.
- Lee, Haynes A., Jr.; and Rapp, Charles F., 3,640,891.
- Lee, Haynes A., Jr.; and Rapp, Charles F., 3,663,474.
- Leuck, Donald D., 3,665,400.
- Levene, Leon; and Thomas, Ian M., 3,640,093.
- Ludder, Rodney E., 3,680,763.
- Lynch, Charles S., 3,653,862.
- Mander, Robert J.; Ramm, Duane E.; and Simms, Robert J., 3,643,812.
- Mason, Daniel W., 3,679,440.
- Mason, Daniel W.; Greenstein, Bernard; and Woulbroun, John M., 3,681,261.
- Mason, Daniel W.; and Nester, Henry H., 3,707,499.
- Mc Coll, Bruce John, 3,646,976.
- McColl, Bruce J., 3,643,709.
- McColl, Bruce John, 3,704,733.
- Minneman, Lester C., 3,666,434.
- Mueller, Bruce M., 3,707,347.
- Nesteruk, Edward P., 3,645,778.
- Nowicki, Casimir W., 3,670,062.
- Nugent, Duane C.; and Rathke, Philip P., 3,634,321.
- O'Brien, Thomas Edward, 3,673,431.
- O'Brien, Thomas Edward, 3,706,892.
- Pei, Yu Kun; and Veres, Frank, 3,666,583.
- Peters, Homer D. F., 3,705,792.
- Phillips, Julius, 3,670,922.
- Pirooz, Perry P., 3,645,711.
- Pirooz, Perry P., 3,647,490.
- Reither, Thomas D.; and Trease, Ralph E., 3,635,875.
- Riggs, Darius Orley, 3,659,736.
- Rosenberg, Barnett; Brown, Felix H.; and Williamson, David Theodore Nelson (said Rosenberg and said Brown assor. of), 3,643,014.
- Rosenberg, Barnett, 3,649,514.
- Rummel, Frederick A.; and Shields, Richard J., 3,687,802.
- Ryan, William H., 3,644,046.
- Ryan, William H., 3,702,434.
- Sager, James R., 3,662,883.
- Saumsiegle, Robert W., 3,653,504.
- Schaschel, Erich T., 3,660,448.
- Schaschel, Erich T., 3,660,449.
- Schaschel, Erich T., 3,660,451.
- Schaschel, Erich T., 3,661,961.
- Schmersal, Larry J.; Miavetz, Joseph L.; Pierce, Edward W.; and Wojcik, David S., 3,665,455.
- Schmersal, Larry J., 3,668,688.
- Schmersal, Larry J., 3,684,918.
- Shick, Philip E., 3,657,064.
- Shick, Philip E., 3,676,064.
- Shields, Dean W., 3,674,066.
- Simmons, George A., 3,637,453.
- Small, Owen M., 3,652,253.
- Smith, Allison L., 3,705,050.
- Spanoudis, Louis, 3,660,060.
- Spanoudis, Louis, 3,687,799.
- St. John, Douglas F., 3,631,798.
- Steppe, Kenneth E.; and Webre, Alfred L., Jr., 3,698,949.
- Thomas, Ian M., 3,667,909.
- Timms, Peter L., 3,660,450.
- Townsend, Leyshon W., Jr.; and Wilburn, Warren E., 3,660,067.
- Uhlig, Albert R., 3,685,941.
- Uhlig, Albert R., 3,695,109.
- Veres, Frank, 3,645,839.
- Wallington, Frederick L., 3,656,616.
- Wallington, Frederick L., 3,695,980.
- Walmsley, Judith A., 3,642,721.
- Weaver, Edward A., 3,694,360.
- Wojcik, Gerald E., 3,640,906.
- Yoldas, Bulent E., 3,681,113.
- Owens-Illinois, Inc.: *See—*
- Amberg, Stephen W., 3,658,615.
- Amberg, Stephen W.; and Amberg, Ralph G., 3,697,369.
- Owens, Sylvan B. Nondirectional loop tuft carpet making machine. 3,641,956, 2-15-72, Cl. 112-79.
- Owsley, Herbert B.: *See—*
- Bunn, Stuart E.; and Owsley, Herbert B., 3,701,361.
- Owsley, Herbert B.; and Bunn, Stuart E. Valve member. 3,701,342, 10-31-72, Cl. 123-41,160.
- Oxberry, John W.; Bender, Werner K.; and Policht, Stanislaw A., to Berkey Photo, Inc. Projection optical printing apparatus. 3,682,540, 8-8-72, Cl. 355-18,000.
- Oxel, Berton R., to Hoover Company, The. Selectively supportable cooking apparatus. 3,635,371, 1-18-72, Cl. 220-69.
- Oxenham, Ronald B.: *See—*
- Franklin, Denis; Gingold, Jerald S.; Oxenham, Ronald B.; and Rogers, Raymond E., 3,680,084.
- Oxenrider, Bryce C.: *See—*
- Beyleveld, Wilhelmus M.; Oxenrider, Bryce C.; and Woolf, Cyril, 3,697,562.
- Woolf, Cyril; Oxenrider, Bryce C.; and Beyleveld, Wilhelmus M., 3,705,917.
- Oxenrider, Bryce C.; Litt, Morton H.; and Slavik, Ferdinand M., to Allied Chemical Corporation. Alpha-(p-hydroxyphenyl) cumic acids and esters. 3,639,464, 2-1-72, Cl. 260-520.
- Oxenrider, Bryce C.; and Woolf, Cyril, to Allied Chemical Corporation. Synthetic fibers having improved soil and stain repellency. 3,646,153, 2-29-72, Cl. 260-78.
- Oxenrider, Bryce C., to Allied Chemical Corporation. Purification of polycarbonate resins. 3,668,181, 6-6-72, Cl. 260-47.
- Oxford Chemicals: *See—*
- Weaver, Roger; and Schaffstall, Eugene, 3,677,827.
- Oxford Electric Corporation: *See—*
- Ragni, Luigi, 3,691,490.
- Oxford Industries, Inc.: *See—*
- Frost, Wade W., 3,675,604.
- Frost, Wade W., 3,685,245.
- Frost, Wade W., 3,695,195.
- Frost, Wade W., 3,701,328.
- Huddleston, Eric G., 3,661,106.
- Huddleston, Eric George, 3,701,165.
- Oxford Laboratories: *See—*
- Smernoff, Ronald B., 3,640,687.
- Smernoff, Ronald B., 3,645,688.
- Oxford Pendaflex Corporation: *See—*
- Jonas, Frank D., 3,667,854.
- Oxley, James E.: *See—*
- Owens, Boone B.; and Oxley, James E., 3,663,299.
- Oxley, Peter; and Housley, John Rosindale, to Boots Pure Drug Company Limited. 17-Acyloxysteroids and their manufacture. 3,639,434, 2-1-72, Cl. 260-397,45.
- Oxy Metal Finishing Corporation, mesne: *See—*
- Clauss, Richard J.; Tremmel, Robert; and Becking, Donald H., 3,703,448.
- Neumann, John W.; Clark, Chester G.; and Minbiole, Louis J., Jr., 3,704,685.
- Plaxton, Elmer H., 3,706,604.
- Oxy-Catalyst, Incorporated: *See—*
- Smithson, Harold R.; and Strohl, Kenneth P., 3,637,353.
- Oxy-Dry Sprayer Corporation: *See—*
- Reilly, Dennis A., 3,680,779.
- Sanders, Robert C., 3,680,528.
- Oxygen Valve Company of America: *See—*
- Swartz, Leonard B., 3,646,965.
- Oy Airam AB: *See—*
- Airola, Aito Kasimir; and Saarinen, Martti Kaarlo Johannes, 3,650,304.
- Oy Nokia AB: *See—*
- Hyyrylainen, Kauko Kalervo, 3,686,614.
- Riekkinen, Asko Sakari, 3,682,723.
- Valtonen, Rainer Ilkka Tapio, 3,646,501.
- Oy Tahka AB: *See—*
- Lehtola, Erkki T., 3,633,741.
- Oy Tampella AB: *See—*
- Gronfors, Teuvo, 3,702,162.
- Nykopp, Erik A., 3,649,449.
- Nykopp, Erik A., 3,655,507.
- Nykopp, Erik A., 3,659,349.
- Nykopp, Erik A., 3,671,388.
- Nykopp, Erik A., 3,681,193.
- Oy Wartsila AB: *See—*
- Burakoff, Valdemar; Krakstrom, Paul; Sinervo, Into; and Solitanner, Kaarlo H., 3,636,738.
- Enne, Paavo; Gahmberg, Gustaf; Pousar, Kurt; and Solitanner, Kaarlo Henrik, 3,636,741.
- Sinervo, Into, 3,656,329.
- Oy Wilh Schauman AB: *See—*
- Lillkvist, Salomo, 3,688,973.
- Oya, Koichi, to Taiyo Yuden Kabushiki Kaisha. Composite circuit member including an electrostrictive element and condenser. 3,659,123, 4-25-72, Cl. 310-8.
- Oya, Tsutomu; and Ebine, Kiyoshi, to Japan Business Automation Co., Ltd. and Tokyo Shibaura Electric Co., Ltd. System for controlling tape read-out devices. 3,665,435, 5-23-72, Cl. 340-174.1.
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- Oyagi, Yashichi: *See*—
Nishihara, Toshiro; Asano, Hidejiro; Maeda, Shigeyoshi; and Oyagi, Yashichi, 3,704,181.
- Oyama, Minoru: *See*—
Tamai, Isamu; Oyama, Minoru; Osakada, Atsushi; and Shinohara, Yasuo, 3,655,542.
- Oyama, Yoshio. Method and apparatus for automatically affixing top stops on sliderfastener chain. 3,689,980, 9-12-72, Cl. 29-408.000.
- Oyama, Yoshishige: *See*—
Hohsho, Yukio; Yamada, Koichiro; Oyama, Yoshishige; Teranishi, Takao; and Suzuki, Seikou, 3,669,423.
- O.Z. Electrical Manufacturing Company, Inc.: *See*—
Philibert, Robert A.; and Browne, Frank L., 3,655,907.
- Ozaki, Asaichiro: *See*—
Kono, Kageaki; Oki, Toshikazu; Kitai, Atsuo; and Ozaki, Asaichiro, 3,663,370.
- Ozaki, Atsumu; and Morooka, Yoshihiko, to Idemitsu Petrochemical Co., Ltd. Process for the direct production of ketones from olefins. 3,636,156, 1-18-72, Cl. 260-597.
- Ozaki, Haruo: *See*—
Ogi, Hideo; Ozaki, Haruo; Mishiro, Masaru; Horikawa, Yoshikazu; and Mori, Shunji, 3,646,772.
- Ozaki, Nobuo, to Maeda Industries, Ltd. Bicycle gear shift lever. 3,693,469, 9-26-72, Cl. 74-489.000.
- Ozaki, Toshiaki: *See*—
Fujinami, Akira; Horiuchi, Fukashi; Nodera, Katsuji; Ozaki, Toshiaki; Yamamoto, Sigeo; and Oishi, Tadashi, 3,636,044.
- Fujinami, Akira; Ozaki, Toshiaki; Horiuchi, Fukashi; Yamamoto, Sigeo; Akiba, Keiichi; Tanaka, Katsutoshi; Ooba, Shigehiro; Oishi, Tadashi; Nodera, Katsuji; and Kameda, Nobuyuki, 3,668,217.
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- Tsuchiya, Hiroshi; Kunio, Nishinomiya-Shi; Kimura, Akio; Kawano, Suminori; Fujimoto, Keimei; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Tanaka, Katsutoshi; Oishi, Tadashi; and Takeda, Hisami, 3,670,057.
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Brazda, Ladislav; Prochazka, Miloslav; Kuhn, Vladimir; and Ozdian, Josef, 3,667,205.
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Nakamura, Toshio; and Ozeki, Hidekichi, 3,682,686.
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Astafiev, Georgy Vasilievich; Korolkov, Ivan Alexandrovich; and Ozhgikhin, Anatoly Nikolaevich, 3,692,224.
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Watanabe, Eisuke; and Ozono, Masayashi, 3,651,036.
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Knapp, Christopher F.; and Ozzimo, Peter S., 3,638,140.
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Simmons, Patricia L., 3,685,524.
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Heacock, Russel L., 3,684,040.
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Heacock, Russel L., 3,685,301.
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Van Der Molen, Leonard Hendrik, 3,647,172.
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Beisemann, Heinz, 3,650,580.
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Means, Lamoine E., 3,698,754.
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Boley, Robert D.; Meyer, Charles F.; Kiessling, Rudolf H.; and Paape, Kenneth L., 3,683,301.
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Perrin, Gunter; and Pabinger, Gerhard, 3,688,884.
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Ziffer, Jack, 3,654,086.
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Bach, Heinz; Bottger, Max; and Pabst, Heinrich, 3,652,292.
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Flick, Francis S.; and Pabst, Russell F., 3,688,646.
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Caretta, Renato; and Pacciarini, Antonio, 3,674,899.
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Shane, Berwyn E., 3,663,990.
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Bryan, Darrel L.; and Maisch, Larry D., 3,669,293.
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- Johnson, Robert E., 3,706,470.
- Pacific Coast Pipe Limited, mesne: *See*—
Price, George E., 3,702,050.
- Pacific Electro Dynamics, Inc.: *See*—
Gordon, David R.; and Tarbox, Gary L., 3,667,030.
- Pacific Engineering and Production Co.: *See*—
Gibson, Fred D., Jr.; Halker, Bruce B.; and Thayer, Robert L., 3,634,216.
- Pacific Fast Mail: *See*—
Longnecker, Robert H., 3,664,060.
- Pacific Gas Equipment Company: *See*—
Blakeway, Carman H.; and Stone, Darold D., 3,638,804.
- Pacific Grinding Wheel Company, Inc.: *See*—
Bates, Fred R., 3,685,215.
- Pacific Handy Cutter, Incorporated: *See*—
Black, Leonard J., 3,667,122.
- Pacific Industries, Inc.: *See*—
Ehrhardt, Gerry H.; Reeves, Ronald L.; and Siglin, David L., 3,653,944.
- Ehrhardt, Gerry H.; and Abernathy, Timothy G., 3,658,998.
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Butler, Fred C.; Johnson, Nathaniel M.; and Wallace, Clifford G., 3,683,302.
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Budge, William W.; and Donald, Malcolm, 3,638,615.
- Pacific Metals Co., Ltd.: *See*—
Kashima, Takeshiro; and Onaya, Isamu, 3,662,568.
- Pacific Plantronics, Inc.: *See*—
Hutchings, Kenneth J., 3,654,404.
- Wilson, Donald R., 3,691,311.
- Pacific Press & Shear Corporation: *See*—
Richardson, Rolland A., 3,659,498.
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Davis, Paul K., 3,650,015.
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- Pacific Scientific Company: *See*—
Reber, Russell H.; and Mescher, Harold E., 3,659,831.
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Moore, Howard V., 3,669,406.
- Pacific Vegetable Oil Corporation: *See*—
Cummings, Lowell O., 3,639,650.
- Cummings, Lowell O., 3,668,159.
- Cummings, Lowell O., 3,669,900.
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Longshaw, William J.; Sieson, Roy C., Jr.; and Ridenour, James, 3,687,167.
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Kleiner, Eduard Karl; Knell, Martin; and Pacini, Pier Luigi, 3,658,857.
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Angelbeck, John A., Jr., 3,636,888.
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- Packaged Power Terminals, Inc.: *See*—
Christian, Joseph D.; and Christian, Robert F., 3,637,069.
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Polansky, Sidney I., 3,675,843.
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Boyd, James W.; and Bessett, Clifford H., 3,645,436.
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- Diehl, Philip A., 3,685,649.
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- Maher, Stephen L., 3,681,115.
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- Rathfon, Norman L., III, 3,688,968.
- Zeitter, Charles R., 3,690,543.
- Packaging Industries, Inc.: *See*—
Brown, Fred P., Jr.; and Rohdin, Howard A., 3,640,668.
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- Brown, Fred P., Jr., 3,659,993.
- Kovic, Joseph J., 3,701,297.
- Raspante, Anthony, 3,690,798.
- Packaging Research Corporation: *See*—
Partos, Frank, 3,633,245.
- Packaging Specialties, Inc.: *See*—
Francis, William J., 3,685,463.
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Cavanaugh, Robert E., Jr., 3,691,386.
- Kaartinen, Nilo H., 3,682,598.
- Olson, Robert E.; and Toman, Joseph R., 3,639,764.
- Packard, Lyle E., 3,688,120.
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Graff, Jack; and Dora, Ralph A., 3,677,706.
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Blecherman, Sol S.; Ulion, Nicholas E.; and Packer, Louis L., 3,668,386.
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Anderson, Amos R., 3,634,560.
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Rodgers, Franklin A.; and Purcell, Edward M., 3,635,800.
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- Rodgers, Franklin A., 3,661,721.
- Rodgers, Franklin A., 3,685,259.
- Pactosan AB: *See*—
Backlund, Bernt S.; Forslund, Goran P. A.; and Eriksson, Eleon G., 3,665,522.
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Collard, Jacques Roger; Narayan, Subrahmanyam Yegna; and Paczkowski, John Paul, 3,665,254.
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Feakes, Frank; and Padawer, Gabriel E., 3,702,261.
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Widmark, Rudolph M.; Lichtenstein, Bernard; Paseltiner, Lynn; and Padawer, Jacques, 3,700,555.
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- Paddock, Charles F., to Uniroyal, Inc. Bonding EPDM to butadiene rubbers. 3,653,423, 4-4-72, Cl. 152-330.
- Paddock, Norman Lovelace: *See*—
Proctor, James Ernest; Paddock, Norman Lovelace; and Searle, Harold Trevor, 3,667,922.
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Wiensner, Wilfried; and Pader, Morton, 3,662,059.
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Padgitt, Kenneth W.: *See—*

Venema, Harry J.; and Padgitt, Kenneth W., 3,651,454.

Padilla, Luis. Track shoe protector. 3,666,327, 5-30-72, Cl. 305-35.00r.

Padley & Venables Limited: *See—*

Eyre, Brian; and Bland, John, 3,671,075.

Padmanathan, Thuraiajah, to American Cyanamid Company. 5-Benz(c)dindol-2(1H)-ylidene-barbituric acid. 3,661,907, 5-9-72, Cl. 260-256.4.

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Padmore, Ernest L.: *See—*

Moore, Howard D.; Padmore, Ernest L.; and Whittle, John, 3,663,437.

Padovani, Francois A.; and Sumner, George G., to Texas Instruments, Incorporated. Schottky barrier light sensitive storage device formed by random metal particles. 3,634,692, 1-11-72, Cl. 250-211.

Padovani, Henry R.; and Wright, John G., to Textron, Inc., mesne. Heel stripping means. 3,653,088, 4-4-72, Cl. 12-50.5.

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Padowicz, Henry N., to Bell Telephone Laboratories, Incorporated. Method of making a communications cable. 3,638,306, 2-1-72, Cl. 29-624.

Padr, Zdenek: *See—*

Mansfeld, Viktor; and Padr, Zdenek, 3,670,075.

Padnos, Daniel F.: *See—*

Wahba, Issac J.; Padnos, Daniel F.; and Ma, Shao-Mu, 3,653,917.

Padwick, Henry. Multi-hulled boat. 3,656,445, 4-18-72, Cl. 114-39.

Padwick, Herbert W.; and Fay, Lawrence P. Snowmobile suspension. 3,703,936, 11-28-72, Cl. 180-5.00r.

Paelian, Owen; Rister, Donald R.; and Kellar, Richard L., to Toroid Corporation. Load cell. 3,706,349, 12-19-72, Cl. 177-211.000.

Paepke, Horst, to Warner & Swasey Company, The. Horizontal selector jacks and their actuation. 3,667,254, 6-6-72, Cl. 66-50.00r.

Paffen, Pieter Jozef Marie: *See—*

Van Wierst, Wilhelmus Lambertus; and Paffen, Pieter Jozef Marie, 3,697,119.

Paffett, James Arthur Haines, to National Research Development Corporation. Damping arrangements. 3,635,182, 1-18-72, Cl. 114-5.

Paffrath, Edgar C.; and Burke, Harold J., to General Motors Corporation. Warning lamp pulsator. 3,633,160, 1-4-72, Cl. 340-72.

Pagani, Hermes: *See—*

Thiemann, Josef Ernst; and Pagani, Hermes, 3,700,558.

Pagano, Joseph F., to Smith Kline & French Laboratories. Complexes of phosphonic acid and α -amino-3-nitroacridine. 3,694,447, 9-26-72, Cl. 260-279.00r.

Pagano, Joseph Frank: *See—*

Actor, Philip Pau; and Pagano, Joseph Frank, 3,682,952.

Pagdin, Brian Colin; and Forster, Brian Michael, to G.K.N. Birfield Transmissions Limited. Apparatus for measuring output characteristics of a rotary moving part. 3,651,690, 3-28-72, Cl. 73-117.

Pagdin, William Gordon; Smith, Walter I.; Smith, Wayne A.; and Le Tendre, Eugene F., to Schlitz, Jos., Brewing Company. Conveyor. 3,669,244, 6-13-72, Cl. 198-137.000.

Page, Billy A. Cryotherapy apparatus for limbs. 3,705,587, 12-12-72, Cl. 128-402.000.

Page, Derrick J.: *See—*

Brady, Thomas P.; Page, Derrick J.; and Raygor, Paul O., 3,657,613.

Page, Derrick J., to Westinghouse Electric Corporation. Schottky barrier power rectifier. 3,652,905, 3-28-72, Cl. 317-234.

Page, Derrick J.; and Brady, Thomas P., to Westinghouse Electric Corporation. Thin film power FET. 3,652,907, 3-28-72, Cl. 317-235.

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Page, Edward, to Rich Manufacturing Company of California, mesne. Fire hydrant. 3,677,282, 7-18-72, Cl. 137-283.000.

Page, Geoffrey A.: *See—*

Krohn, Ivar T.; Page, Geoffrey A.; and Reinis, Gedeminas J., 3,655,372.

Krohn, Ivar T.; Page, Geoffrey A.; and Reinis, Gedeminas J., 3,676,116.

Krohn, Ivar T.; and Page, Geoffrey A., 3,692,516.

Page, George A.; Rathbun, Robert R.; and Kramer, Bruce E., to Aeronca, Inc. Method and apparatus for welding honeycomb core panel and the like. 3,676,635, 7-11-72, Cl. 219-92.000.

Page, Hans-Peter: *See—*

Krock, Alwin; Page, Hans-Peter; and Hirschmann, Joachim, 3,705,389.

Page, Harold Rodney Sven: *See—*

Wall, Reginald Victor; and Page, Harold Rodney Sven, 3,698,238.

Page, Howard M., to Leath, McCarthy & Maynard, Inc. Panty hose measuring apparatus and method. 3,639,987, 2-8-72, Cl. 33-2.

Page, Ian Bruce; and Thompson, Alan, to AMP Incorporated, mesne. Lamp holder. 3,654,593, 4-4-72, Cl. 339-188.

Page, Jack S.: *See—*

Brent, John T., Jr.; and Page, Jack S., 3,642,456.

Page, John D.: *See—*

Anderson, Gordon C.; and Page, John D., 3,640,062.

Page, John S., Jr. Self-closing, sub-surface well safety valve. 3,662,824, 5-16-72, Cl. 166-72.000.

Page, John T.: *See—*

Von Linsowe, Carl V., 3,631,884.

Von Linsowe, Carl V., 3,701,358.

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Page, Kenneth J.: *See—*

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Page, Louis J. Ophthalmic mounting for tensionally securing lenses. 3,702,217, 11-7-72, Cl. 351-106.000.

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Johnson, Harold M.; and Page, Russel D., 3,677,350.

Page, Russell D.; Klingaman, Dean C.; and Scholl, Roland D., to Caterpillar Tractor Company. Electro-hydraulic touch control system for earthmoving vehicles. 3,703,931, 11-28-72, Cl. 172-4.500.

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Page, Walter; Schevey, William R.; and Vander Mey, John E., to Allied Chemical Corporation. Zinc electroplating process and acidic zinc fluoroborate electrolyte therefor. 3,655,533, 4-11-72, Cl. 204-55.

Page, Wilbur M.; and Coupland, Ralph, to Clayton Dewandre Company Limited. Vehicle braking systems. 3,666,324, 5-30-72, Cl. 303-9.

Pagel, Armin B., to Newell Mfg. Co. Apparatus for dispensing sheet material. 3,667,825, 6-6-72, Cl. 312-39.

Pagel, Armin B., to Eastman Kodak Company. Photographic apparatus. 3,675,565, 7-11-72, Cl. 95-11.001.

Pagel, Dilip N.: *See—*

Lloyd, Norman E.; Lewis, Leonard T.; Logan, Robert M.; and Pagel, Dilip N., 3,694,314.

Pagel, Kenneth J.: *See—*

Overly, William F.; and Pagel, Kenneth J., 3,705,676.

Overly, Wm. F.; and Pagel, Kenneth J., 3,650,043.

Pagel, Richard F.: *See—*

Carpenter, Robert K.; and Pagel, Richard F., 3,687,828.

Pagella, Elio: *See—*

Antonietto, Bruno; and Pagella, Elio, 3,691,899.

Paget, Arthur Averil: *See—*

Scriven, Eric Thomas; and Paget, Arthur Averil, 3,631,665.

Paget, Birgitta Helena: *See—*

Skoldkvist, Helge Natanael, 3,694,312.

Paget, Charles J., Jr.: *See—*

De Long, Donald C.; and Paget, Charles J., Jr., 3,639,612.

Paget, Fredrick W., to GTE Sylvania Incorporated. Electronic flash lamp power supply. 3,644,818, 2-22-72, Cl. 321-18.

Paget, Fredrick W., to Sylvania Electric Products, Inc. Control circuit for starting, sustaining and operating arc lamps. 3,699,385, 10-17-72, Cl. 315-239.000.

Paget, George Edward: *See—*

Richardson, Dora Nellie; Walpole, Arthur Leonard; and Paget, George Edward, 3,700,777.

Paggen, Harold W. Device for removing dirt and corrosion from heat exchanger cores. 3,667,488, 6-6-72, Cl. 134-169.

Paginton, Philip Norman: *See—*

Mays, Michael Richard; and Paginton, Philip Norman, 3,645,226.

Paginton, Philip Norman, to Westinghouse Brake and Signal Company, Limited. Brake control valve apparatus. 3,707,314, 12-26-72, Cl. 303-36.000.

Paglee, Mario Robert: *See—*

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Paglia, Richard, to Polaroid Corporation. Film retaining apparatus. 3,688,667, 9-5-72, Cl. 95-13.000.

Paglia, Richard, to Polaroid Corporation. Apparatus for interfacing photographic camera and film cartridge. 3,705,537, 12-12-72, Cl. 95-11.00r.

Pagnotta, Gaspar; and Kiesler, Allan J., to General Electric Company. Process for joining wires to sheets of refractory materials. 3,639,722, 2-1-72, Cl. 219-127.

Pahl, Fritz-Wilhelm: *See—*

Keuerleber, Rudi; and Pahl, Fritz-Wilhelm, 3,706,515.

Pahl, John G. Booster transformer switch. 3,673,360, 6-27-72, Cl. 200-48.00r.

Pahlitzsch, Bruno. Method of and apparatus for manufacturing articles from blanks of sheet material. 3,672,667, 6-27-72, Cl. 271-74.000.

Pahlitzsch, Bruno. Device for extracting blanks from a stack. 3,682,471, 8-8-72, Cl. 271-29.000.

Pahlow, Lothar, to Wilhelmshurger Maschinenfabrik, Firma. Adjustable supporting structure for power tools or the like. 3,700,195, 10-24-72, Cl. 248-16.000.

Pahnke, Hans Jochim, to Maschinenfabrik Sack G.m.b.H. Forging machine. 3,657,916, 4-25-72, Cl. 72-399.

Pai, Venkatrao Krishnaraya; and Hyman, Daniel, to American Cyanamid Company. Separation of organic acid products and water from catalysts after synthesis by reduced pressure distillation. 3,663,613, 5-16-72, Cl. 260-533.

Paice, Derek A.: *See—*

Bixby, Bryan J.; and Paice, Derek A., 3,666,971.

Paidosh, Richard L., to Minnesota Mining and Manufacturing Company. X-ray film cassette. 3,704,369, 11-28-72, Cl. 250-65.00r.

Paige, Dennis D.; and Coleman, Lewis E., to Automated Lawn Builders of the Midwest, Inc. Lawn and turf maintenance unit. 3,685,468, 8-22-72, Cl. 111-11.000.

Paige, Edward George: *See—*

Maines, James Dennis; and Paige, Edward George, 3,660,756.

Paige, Edward George Sydney, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation Supply in Her Britannic Majesty's Government of the. Acoustic surface wave devices. 3,678,305, 7-18-72, Cl. 310-8.100.

Paige, Kenneth E.: *See—*

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Paige, Peter M. Apparatus to support the electrodes and bus bar in an electrolytic cell. 3,697,404, 10-10-72, Cl. 204-267.

Paige, Richard E. Talking book. 3,641,684, 2-15-72, Cl. 35-8.

Paige, Walter Griffin, to Burroughs Corporation. Low cost calculator providing serial printing and a bi-quinary system for amount entry. 3,687,361, 8-29-72, Cl. 235-60.00p.

Paige, William P.; and Nagle, Floyd B., to Dow Chemical Company, The. Flame retardant polypropylene and polyurethane. 3,666,692, 5-30-72, Cl. 260-2.5.

Paillard S.A.: *See—*

Lietar, Christian, 3,652,159.

Odono, Giovanni; Kunz, Heinrich; and Buch, Willy, 3,652,160.

Odono, Giovanni; and Lietar, Christian, 3,671,127.

Ramet, Gilbert, 3,646,871.

Sekera, Jaroslav, 3,685,890.

Thevenaz, Jean, 3,650,596.

Thevenaz, Jean, 3,680,811.

Paillolle, Nicole: *See—*

Passedouet, Andre Henri; Roussos, Michel G.; Pigeot, Jacqueline; and Paillolle, Nicole, 3,652,584.

Painaud, Jean, to Triton Enterprises Ltd. Seal. 3,704,647, 12-5-72, Cl. 85-55.000.

Painke, Helmut: *See—*

Knauff, Gunter; Koederitz, Fritz; Painke, Helmut; Reichl, Leopold; Lampe, Hans H.; Vachenaue, Robert; Vogt, Edwin; and Weber, Hermann, 3,659,273.

Painkin, Harold: *See—*

Irish, Carleton D.; and Painkin, Harold, 3,641,475.

Painley, Elmer F.: *See—*

McMahon, Richard A.; Lee, Winston F. Z.; and Painley, Elmer F., 3,701,277.

Painley, Elmer F., to Rockwell Manufacturing Company. One way drive for remote reader register. 3,688,091, 8-29-72, Cl. 235-92.00h.

Pains-Wessex Limited: *See—*

Murray, Dudley Charles, 3,654,867.

Painter, Charles D.: *See—*

Adams, William H.; and Painter, Charles D., 3,653,560.

Painter, Daniel W., II: *See—*

Haase, Wallace H.; Lyman, Albic Alton, Jr.; and Painter, Daniel W., II, 3,638,174.

Painton & Company Limited: *See—*

Cartwright, John A., 3,659,254.

Painton, Claude Arthur, to United Gas Industries Limited, mesne. Illuminating display for simulating a fire. 3,699,697, 10-24-72, Cl. 40-106.530.

Painton, Richard C.: *See—*

Bresson, Richard J.; and Painton, Richard C., 3,664,245.

Painton, Richard C., to Eastman Kodak Company. Indicating apparatus for exposure control apparatus. 3,664,244, 5-23-72, Cl. 95-10.

Paispearl Products, Inc.: *See—*

Wetzold, Paul W., 3,682,993.

Paitantys, Tamas I., to Westinghouse Electric Corporation. Channel equalization for differencing pre-recorded and live video signals. 3,689,691, 9-5-72, Cl. 178-6.800.

Paitchell, Harold: *See—*

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Paiva, Stanley H. Fishing rod holder. 3,636,649, 1-25-72, Cl. 43-21.2.

Pajtik, Josef: *See—*

Zelnik, Anrej; Kozmal, Frantisek; Domansky, Radislav; and Pajtik, Josef, 3,660,245.

Pajulaid, Manivald Maximovich; and Tooming, Khugo Gustavovich. Apparatus for sewing together net sheets. 3,664,694, 5-23-72, Cl. 289-18.

Pak-Well Corporation: *See—*

Alton, Thomas W., 3,633,816.

Klover, Richard S., 3,650,462.

Pakendorf, Horst, to Vereinigte Flugtechnische Werke-Fokker GmbH. Flat lifting fan unit. 3,680,316, 8-1-72, Cl. 60-269.000.

Pako Corporation: *See—*

Bergly, Richard N.; and Gilligan, Patrick J., 3,658,223.

Erickson, Glenn D., 3,656,673.

Gallistel, Albert F.; and Posthumus, Warren R., 3,635,387.

Reid, Norman C., 3,678,842.

Reid, Norman C., 3,681,853.

Pakulak, Lucile A.: *See—*

Douglas, Larry D., 3,670,301.

Pakulak, Pete: *See—*

Douglas, Larry D., 3,670,301.

Pakurar, Julia H.: *See—*

Lair, Robert C.; Pakurar, Julia H.; and Stricker, Edward G., 3,659,423.

Pakutka, Willard M.; Cerulli, Nicholas F.; and Scanlon, Gerald T., to Westinghouse Electric Corporation. Refractory metal brazing with niobium pentoxide flux. 3,636,297, 1-18-72, Cl. 219-85.

Pal, Ajay Kumar. Logic track circuit. 3,691,370, 9-12-72, Cl. 246-125.000.

Pala, Gianfranco: *See—*

Casadio, Silvano; and Pala, Gianfranco, 3,703,528.

Casadio, Silvano; and Pala, Gianfranco, 3,703,534.

Pala, Gianfranco, to Instituto de Angeli S.p.A. 3-Halogenated 4,4'-disulfoxy-diphenyl-(2-pyridyl)-methane. 3,686,189, 8-22-72, Cl. 260-294.80r.

Palac, Kazimir, to Motorola, Inc. Method of depositing vitreous material on a faceplate panel. 3,677,791, 7-18-72, Cl. 117-33.5cm.

Palac, Kazimir, to Motorola, Inc. Edge-bonded bi-metallic strip extending from metal plate on shadow mask to stud via spring of substantially smaller cross-sectional area. 3,700,948, 10-24-72, Cl. 313-85.00s.

Palacio, Luis M.: *See—*

Bull, Gerald V.; and Palacio, Luis M., 3,695,181.

Palagonia, Joseph R. Combination pick and shovel. 3,638,986, 2-1-72, Cl. 294-49.

Palan, Sherman E. Pressurized dispensing package. 3,687,174, 8-29-72, Cl. 141-20.000.

Palat, William. Apparatus and method for replacing a defective gate valve. 3,689,979, 9-12-72, Cl. 29-401.000.

Palau, Joseph; and de Germond, Jacques, to Staubli Ltd. Double-lift dobby. 3,667,507, 6-6-72, Cl. 139-71.

Palau, Joseph, to Staubli Ltd. Improvements in or relating to draw hooks of a dobby. 3,680,601, 8-1-72, Cl. 139-68.000.

Palau, Dieter K.: *See—*

Coync, Merton W.; and Palau, Dieter K., 3,640,351.

Palau, Dieter K.; and Mayer, James R., to Gardner-Denver Company. Drill rod retrieving tool. 3,697,113, 10-10-72, Cl. 294-86.240.

Palazzetti, Mario: *See—*

Michellone, Gian Carlo; and Palazzetti, Mario, 3,684,238.

- Michellone, Giancarlo; and Palazzetti, Mario, 3,706,478.
 Michellone, Giancarlo; Palazzetti, Mario; and Tabasso, Giovanni, 3,707,313.
 Palazzetti, Mario, to Fiat Societa per Azioni. Electrical inductive/capacitive component. 3,660,790, 5-2-72, Cl. 336-69.
 Palazzetti, Mario; and Cavallarin, Bruno. Magnetic ignition distributor. 3,683,880, 8-15-72, Cl. 123-146.50a.
 Palazzetti, Mario; and Cavallarin, Bruno, to Fiat Societa per Azioni. Electronic timing system for internal combustion engine. 3,705,573, 12-12-72, Cl. 123-146.50a.
 Palazzola, Anthony: See—
 Vale, Peter C.; Palazzola, Anthony; Gruel, Nicolae; and Nixon, Raymond F., 3,680,267.
 Palazzolo, Mario, to DiMar Metal Fabricators, Inc. Device for preventing unauthorized removal of portable equipment. 3,672,190, 6-27-72, Cl. 70-58.000.
 Palazzolo, Salvatore E.: See—
 Cannady, Daniel L., Jr.; and Palazzolo, Salvatore E., 3,648,358.
 Palazzolo, Salvatore E.; and McCaskey, Harold O., to Westinghouse Electric Corporation. Modified phenolic resin system and laminates made therefrom. 3,707,296, 12-26-72, Cl. 280-11.131.
 Pale Corporation: See—
 Gandelman, Morris D., 3,670,373.
 Sandelman, Morris D., 3,685,106.
 Palencher, Jacques, to Labocoy Industries. Apparatus for making molded objects. 3,642,409, 2-15-72, Cl. 425-305.
 Palencher, Jacques, to Labocoy Industries. Shaping press, specifically for articles made of plastic. 3,679,803, 7-25-72, Cl. 425-289.000.
 Palencher, Jacques; and Penard, Michel, to Societe dite: Lebacoy Industrie. Moving frame measuring device. 3,705,351, 12-5-72, Cl. 324-151.00r.
 Palenske, Carlton L., to Kimberly-Clark Corporation. Fitted bedsheet. 3,638,252, 2-1-72, Cl. 5-334.
 Palenske, Carlton L.; and Marks, Lawrence E., to Kimberly-Clark Corporation. Double four corner contoured bedsheet. 3,681,795, 8-8-72, Cl. 5-334.00c.
 Paleologo, Teo; Vargiu, Silvio; and Pezzoli, Silvestro, to Societa Italiana Resine S.p.A. Phenolic resin compositions and process. 3,632,537, 1-4-72, Cl. 260-19.
 Paleologo, Teo; and Ackermann, Jacob, to Societa Italiana Resine S.p.A. Process for preparing paraformaldehyde. 3,632,655, 1-4-72, Cl. 260-615.5.
 Paleologo, Teo; and Vargiu, Silvio, to Societa Italiana Resine S.p.A. Process for preparing hardened polyester resins using mixtures of organic metal derivatives of vanadium and zirconium as accelerators. 3,639,504, 2-1-72, Cl. 260-863.
 Paleologo, Teo; Reni, Cesare; and Lugo, Luigi, to Societa Italiana Resine S.p.A. Preparation of unsaturated aliphatic nitriles. 3,644,472, 2-22-72, Cl. 260-465.3.
 Paleos, Joannis, to Rohm & Haas Company. Decolorization of Kraft wood pulp bleach effluents. 3,652,407, 3-28-72, Cl. 210-27.
 Palermi, Frank M.: See—
 Moriconi, Joseph H.; Palermi, Frank M.; and Jacknow, Burton B., 3,681,107.
 Teuscher, Leon A.; Trubisky, Michael P.; Palermi, Frank M.; and Levine, Charles J., 3,697,265.
 Trubisky, Michael P.; Teuscher, Leon A.; Palermi, Frank M.; and Levine, Charles J., 3,634,134.
 Palermi, Frank M.; Royka, Stephen F.; Sullivan, William A., Jr.; and Emerald, Robert L. Imaging system. 3,635,704, 1-18-72, Cl. 96-1.
 Palermi, Frank M.; and Chatterji, Arun K., to Xerox Corporation. Imaging process employing novel solid developer material. 3,655,374, 4-11-72, Cl. 96-1.4.
 Palermo, Anthony J.; and Husick, Charles B., to Picker Corporation. Adjustable collimator. 3,668,402, 6-6-72, Cl. 250-105.000.
 Palethorpe, George. Insoluble organotin salt stabilizers for acrylonitrile polymers. 3,642,628, 2-15-72, Cl. 260-45.75.
 Paletto, Raimondo; and Cossuta, Giuseppe, to Ates Componenti Elettronici S.p.A. Module for integrated circuits and method of making same. 3,689,683, 9-5-72, Cl. 174-52.0pe.
 Palfey, Albert J.: See—
 Parish, Hal G.; Palfey, Albert J.; and Moore, Eugene R., 3,637,459.
 Palfey, Albert J., to Dow Chemical Company. The Goods supporting pallet. 3,707,127, 12-26-72, Cl. 108-53.000.
 Palfi, Leslie. Sliding parallel rule. 3,635,396, 1-18-72, Cl. 235-70.
 Palfi, Thomas L.: See—
 Castrucci, Paul P.; Grochowski, Edward G.; North, William D.; and Palfi, Thomas L., 3,648,130.
 Linton, Richard H.; and Palfi, Thomas L., 3,646,525.
 Palfreyman, Donald H., to Fabreka Products Company. Method of bonding material having a low coefficient of friction to a substrate. 3,663,333, 5-16-72, Cl. 156-256.000.
 Palfreyman, Jack; Middleton, Henry Edward; and Baker, Alan Anthony, to Rolls-Royce Limited. Epicyclic weaving of fibre discs. 3,632,460, 1-4-72, Cl. 156-175.
 Palfreyman, Jack; and Middleton, Henry Edward, to Rolls-Royce Limited. Fluid flow machine. 3,640,640, 2-8-72, Cl. 416-2.
 Palfreyman, Jack; and Middleton, Henry Edward, to Rolls-Royce Limited. Apparatus for producing a fibre reinforced composite material. 3,645,829, 2-29-72, Cl. 156-441.
 Palfreyman, Jack; and Middleton, Henry Edward, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the. Method of making a bladed rotor. 3,675,294, 7-11-72, Cl. 29-156.80r.
 Palfreyman, Raymond D., to Bendix Corporation, The. Control wheel force sensor device. 3,653,612, 4-4-72, Cl. 244-83.
 Palitex Project Company GmbH: See—
 Nimitz, Klaus, 3,645,084.
 Paliwoda, Eugene J., to Jones & Laughlin Steel Corporation. Chill for direct casting of thin platelets. 3,674,084, 7-4-72, Cl. 164-271.000.
 Paliyenko, Paul; and Beier, Werner E., to Fiber Industries, Inc. Spinnerette for extruding T-shaped filaments. 3,640,670, 2-8-72, Cl. 18-8.
 Paljug, Joseph W.; and Brody, Samuel S., to American Standard Inc. Log-linear electrometer. 3,652,934, 3-28-72, Cl. 324-115.
 Palka, Frank M.: See—
 Ashley, James R.; and Palka, Frank M., 3,675,124.
 Pall Corporation: See—
 Gross, Robert I., 3,633,612.
 Gross, Robert I., 3,668,837.
 Krakauer, Sidney; and Rosenberg, David, 3,701,433.
 Pall, David B., 3,690,606.
 Pall, David B.; and Silverwater, Bernard F., 3,696,933.
 Riely, Phyllis; and Skyles, Robert (said Riely assor. to), 3,631,654.
 Rosenberg, David, 3,650,933.
 Rosenberg, David, 3,696,932.
 Pall, David B., to Pall Corporation. Anisometric compressed and bonded multilayer knitted wire mesh composites. 3,690,606, 9-12-72, Cl. 245-1.000.
 Pall, David B.; and Silverwater, Bernard F., to Pall Corporation. Inertia filter. 3,696,933, 10-10-72, Cl. 210-444.000.
 Pallat, Ludwig R.: See—
 Brockett, Peter C.; and Pallat, Ludwig R., 3,641,486.
 Pallmann, Wilhelm. Comminuting particles. 3,684,198, 8-15-72, Cl. 241-73.000.
 Pallos, Laszlo: See—
 Magdany, Laszlo; Gelleri, Andras; Pallos, Laszlo; Erdelyi, Lujza, nee Potocz; and Gorog, Peter, 3,705,175.
 Pallos, Perenc M.: See—
 Lee, Hwalin; Pallos, Perenc M.; and Menn, Juluis J., 3,701,759.
 Palluel, Auguste Louis Lucienne, to Imperial Chemical Industries, Limited. Coating compositions. 3,673,137, 6-27-72, Cl. 260-19.000.
 Palm, Bert E.: See—
 Malkin, Irving; Palm, Bert E.; De Ridder, Jon A.; and Germano, Victor V., 3,671,331.
 Palm, Bert E.; and Germano, Victor V., to Diamond Shamrock Corporation. Method of preparing concrete reinforcing elements. 3,682,718, 8-8-72, Cl. 148-6.200.
 Palm, Christof: See—
 Decker, Martin; Stechl, Hanns-Helge; Palm, Christof; and Buerger, Gert, 3,637,797.
 Pommer, Horst; Mueller, Herbert; Mangold, Dietrich; and Palm, Christof, 3,637,817.
 Palm, Clifford W.; and Gibson, William R., to Celanese Corporation. Novelty yarn. 3,640,064, 2-8-72, Cl. 57-144.
 Palm, Eugene J.: See—
 Fink, Robert H.; and Palm, Eugene J., 3,677,010.
 Palm, Gordon F. Water systems for phosphate plants. 3,699,212, 10-17-72, Cl. 423-307.000.
 Palm, James T.: See—
 Jones, Robert L., 3,702,180.
 Palm, John W.: See—
 Hujsak, Karol L.; and Palm, John W., 3,681,024.
 Palm, Lorenz: See—
 Wright, David A.; and Palm, Lorenz, 3,638,287.
 Palm, Richard: See—
 Cransken, Georg; Kober, Gunther; and Palm, Richard, 3,698,804.
 Palm, Richard R.: See—
 Reuland, Frank E.; and Palm, Richard R., 3,657,622.
 Palm, William E., Jr., to Compo Industries, Inc. Shoe stiffener means and method. 3,676,250, 7-11-72, Cl. 156-249.000.
 Palma, James R. Guide for growing blood vessels or the like. 3,648,295, 3-14-72, Cl. 3-1.
 Palma, James R. Fluid separator. 3,706,383, 12-19-72, Cl. 210-374.000.
 Palma, Michael A.; and Minarick, Joseph W., to Curtiss-Wright Corporation. Torque overload sensing and indicating device for torque limiting brake mechanism. 3,701,401, 10-31-72, Cl. 188-134.000.
 Palmaer, Karl V. Link configuration for drive chain. 3,641,831, 2-15-72, Cl. 74-250.
 Palmi, Robert, to Sheller-Globe Corporation. Oil filter. 3,669,144, 6-13-72, Cl. 137-525.

- Palmason, Einar H.; and Stevens, Harry R., to Parkson Corporation. Automatic broiling apparatus. 3,646,879, 3-7-72, Cl. 99-339.
 Palmberg, Paul W. Double pass coaxial cylinder analyzer with retarding spherical grids. 3,699,331, 10-17-72, Cl. 250-49.5ae.
 Palme, Karl; and Watts, Raymond L., to Wehr Corporation. Brake actuating mechanism for rapid take up of running clearance and gradual application of brake setting force. 3,682,279, 8-8-72, Cl. 188-171.000.
 Palme, Rudolf, to Schwarckopf Development Corporation. Platinum-containing X-ray target. 3,660,053, 5-2-72, Cl. 29-195.
 Palmenberg, Edward C.: See—
 Wachtell, Richard Lloyd; and Palmenberg, Edward C., 3,650,635.
 Palmenberg, Edward C., to Chromalloy American Corporation. Means for measuring bow in a turbine blade. 3,639,994, 2-8-72, Cl. 33-174.
 Palmenberg, Edward C., to Chromalloy American Corporation. Means for measuring twist in a turbine vane. 3,653,128, 4-4-72, Cl. 33-174.
 Palmenberg, Edward C., to Chromalloy American Corporation. Contour-abrasion means and method. 3,685,219, 8-22-72, Cl. 51-328.000.
 Palmer, Alan B.: See—
 Iler, Ralph K.; and Palmer, Alan B., 3,669,695.
 Palmer, Alan B., to Du Pont de Nemours, E. I., and Company. Method of securing dense, metal-bonded refractory nitride bodies to steel and product. 3,667,099, 6-6-72, Cl. 29-191.000.
 Palmer, Ansell W.; and Earl, William C., to Oktronics, Inc., mesne. Magnetic recording device employing novel head mounting mechanism. 3,665,119, 5-23-72, Cl. 179-100.2.
 Palmer, Brian Michael: See—
 Martin, David Eric; and Palmer, Brian Michael, 3,668,270.
 Palmer, Charles B.: See—
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 Palmer, Charles G. Article counting sensor apparatus. 3,684,845, 8-15-72, Cl. 200-61.410.
 Palmer Chemical and Equipment Company, Inc.: See—
 Palmer, Harold C., 3,701,533.
 Palmer, David R.: See—
 Johnson, Frederick R.; and Palmer, David R., 3,697,195.
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 Palmer, Douglas B., to Western Electric Company, Incorporated. Bandwidth and center frequency testing using predetermined amplitude pots. 3,699,434, 10-17-72, Cl. 324-57.00r.
 Palmer Filter Equipment Company: See—
 Stephens, Leonard W., 3,679,031.
 Palmer, Franklin E. Calendar sheeting thickness correction control system. 3,635,627, 1-18-72, Cl. 425-141.
 Palmer, Fred Irwin; and Fogleboch, John Richard, to RCA Corporation. Wide dynamic range product detector. 3,705,355, 12-5-72, Cl. 325-450.000.
 Palmer, Gaylord M.: See—
 Hutton, Jerry T.; and Palmer, Gaylord M., 3,639,170.
 Palmer, George W.: See—
 Herpich, William A.; Park, Glenn S.; and Palmer, George W., 3,661,281.
 Palmer, Gerald G.: See—
 Kim, Chang Soo; and Palmer, Gerald G., 3,691,628.
 Palmer, Harold C. Blank cartridge ammunition adapter for firearms. 3,645,027, 2-29-72, Cl. 42-77.
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 Palmer, John G.: See—
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 Iolnai, Julius L.; and Palmer, Patsy B., 3,693,663.
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 Nesson, Israel; Palmer, Robert G.; and Zausner, Sam, 3,657,980.
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 Hall, Harold G.; and Palmer, Rufus N., 3,655,092.
 Palmer, Sherwin. Parking barrier. 3,636,829, 1-25-72, Cl. 94-31.
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 Palmer, Walter Madison: See—
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 Palmer, Warren G.: See—
 Brink, Edwin H.; and Palmer, Warren G., 3,642,617.
 Palmer-Shile Company: See—
 Griner, Ralph R., 3,638,575.
 Palmieri, John A.: See—
 Jordan, Paul V.; Palmieri, John A.; and Wade, William T., 3,678,475.
 Palmiter, Donald R.: See—
 Prescott, Ernest F.; and Palmiter, Donald R., 3,634,900.
 Palmquist, Richard L.: See—
 August, Rudolf R.; and Palmquist, Richard L., 3,670,218.
 Palms, Joseph X. Wire twister. 3,650,302, 3-21-72, Cl. 140-119.
 Paloma Kogyo Kabushiki Kaisha: See—
 Kobayashi, Shiro, 3,707,142.
 Palombari, Maurizio: See—
 Camiciottoli, Roberto; and Palombari, Maurizio, 3,692,964.
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 Palombo, Gaston Albert; and Boissevain, Thomas A. Position control system. 3,696,354, 10-3-72, Cl. 340-174.10c.
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 Bausenbach, Arthur E.; and Palopoli, Frank, 3,695,175.

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McCarthy, Frederick J.; and Palopoli, Frank P., 3,696,198.
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Bernath, Gabor; Kovacs, Kalman; Palosi, Eva; Gorog, Peter; and Szpony, Lazzlo, 3,654,360.
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Minero, Richard H.; Anello, Anthony J.; Furey, Robert G.; and Palounek, Lubos R., 3,660,646.
- Palovchik, Stephen T., to Goodyear Aerospace Corporation. Pneumatically actuated variable area inlet or exhaust nozzle. 3,637,140, 1-25-72, Cl. 239-265.43.
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Fuchs, Robert J.; and Pals, Raimond, 3,682,588.
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Gerke, Peter; Rutkowski, Karl; Bock, Helmut; and Palsa, Helmut, 3,665,110.
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- Palsky, Alain: *See—*
Bonnard, Lucien; Pich, Rene; and Palsky, Alain, 3,663,509.
- Grosjean, Pierre; and Palsky, Alain, 3,646,157.
- Palsen Corporation AB: *See—*
Edkvist, Ake Evald, 3,644,159.
- Palsson, Jan: *See—*
Wettlen, Roland; Melle, Hans-George; and Palsson, Jan, 3,693,640.
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Ellison, Herbert E., 3,688,937.
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- Palumbo, Pete, to United States Steel Corporation. Apparatus for and method of collecting smoke from coke ovens during charging. 3,647,053, 3-7-72, Cl. 201-1.
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Blech, Joab J.; and Paluszny, Antoni, 3,666,000.
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Senolt, Hans; Tomaschko, Heinrich; and Palvik, Georg, 3,652,445.
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Folkman, Eduard; and Pammer, Erich, 3,658,585.
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Marwede, Gunter; Pampus, Gottfried; and Hoffmann, Martin, 3,646,161.
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Duncan, Floyd R., 3,670,813.
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- Lindley, Ralph H.; and Bickham, Richard E., 3,671,961.
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- Silverman, Daniel, 3,677,342.
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Lee, Robert E.; McDermott, Philip S.; and Pan, Edward S., 3,642,529.
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Burke, William F.; Gihring, Daniel A.; and Jones, Thomas E., 3,666,928.
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Duhamel, Ronald E.; and Hutten, James E., 3,692,977.
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Lynnworth, Lawrence C.; and Spencer, Brian J., 3,633,424.
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Wheaton, Theodore C., III.; and Panas, Walter, 3,706,517.
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Burgess, Robert Stuart, 3,640,795.
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Chadha, Rajendra Nath; and Pande, Kailash Chandra, 3,664,997.
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Wisotzky, Reuben; and Petersen, Richard E., 3,695,987.
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Slosberg, David K., 3,661,691.
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Pandjiris, Anthony K.; Frederick, Arthur I.; and Weinfurt, Edward J., 3,670,139.

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Cameron, Douglas H.; Moody, Roy A.; and Thayer, Arlie J., 3,632,071.
- Caveney, Jack E.; and Moody, Roy A., 3,638,169.
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- Fulton, Ronald T., 3,654,669.
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Lancaster, Robert W., 3,696,509.
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Pammer, Erich; and Panholzer, Horst, 3,642,545.
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McDonald, Quentin H.; Panicci, Richard L.; Casavant, Roger M.; and Nowak, Ralph M., 3,649,074.
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Cinotti, William R.; Panico, Joseph; and Barton, Robert J., 3,645,260.
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Chapman, Howard D.; and Panico, Vincent A., 3,638,982.
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Davey, John E.; and Pankey, Titus, Jr., 3,690,915.
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Kressel, Henry; and Pankove, Jacques Isaac, 3,667,007.
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Otto, Rigobert; Pankow, Gerrit; De Cat, Arthur Henri; Puschel, Walter; and Pelz, Willibald, 3,671,257.
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McClelland, Donald H.; Pankow, Herbert G.; and Wolcott, Edward O., 3,704,173.
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Barainsky, Rudolf F.; Kiefer, Richard; Pankuweit, Hartmut; and Esser, Alfred G., 3,642,399.
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Christians, John A.; and Pannel, Otis R., 3,653,355.
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Gartside, Roger H., 3,635,153.
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Reynolds, Gordon S.; Pannier, Karl A., Jr.; and Sorenson, James L., 3,675,891.
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Krambeck, Robert H.; Panousis, Peter T.; and Strain, Robert J., 3,654,531.
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Zykov, Vladimir Pavlovich; Panov, Alexei Alexandrovich; Prudnikov, Pavel Alexeevich; Khlopov, Mikhail Ivanovich; and Shlyapnikov, Alexei Dmitrievich, 3,675,087.
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Andreev, Pavel Alexeevich; Blinov, Konstantin Andreevich; Gremilov, Dmitry Ivanovich; Kanaun, Boris Izrailevich; Kanaev, Andrei Andreevich; Aslanian, Gurken Nazarovich; Paramonov, Pavel Mikhailovich; Panshin, Boris Mikhailovich; Sobolev, Sergei Petrovich; and Shubenko-Shubin, Leonid Alexandrovich, 3,693,599.
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Ruka, Roswell J.; and Panson, Armand J., 3,691,023.
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Aszalos, Adorjan; Robison, Robert S.; Pansy, Felix; and Berk, Bernard, 3,632,749.
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Hedin, Robert A.; and Pantas, Leo J., 3,662,342.
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Heikes, Norman L., 3,635,228.

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 Ryss, Jury Samuilovich; Bakhtin, Jury Grigorievich; Panteleimonov, Vladimir Mikhailovich; and Alexeev, Alexei Ilarionovich, 3,659,192.
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 Cremer, Joseph; and Panter, Herbert, 3,661,763.
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 Bergh, Arpad Albert; and Paola, Carl Ralph, 3,665,888.
 Bergh, Arpad Albert; Paola, Carl Ralph; and Saul, Robert H., 3,690,965.
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 Lynch, John F.; Scott, William Bryson; and Paoletti, Alfred J., 3,671,206.
 Lynch, John F.; Scott, William Bryson; and Paoletti, Alfred J., 3,671,207.
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 Morane, Bruno; Paoletti, Charles; Merrien, Louis; Maurelli, Manlio; and Sathicq, Robert, 3,635,261.
 Morane, Bruno; Paoletti, Charles; Merrien, Louis; Sathicq, Robert; and Maurelli, Manlio, 3,659,395.
 Morane, Bruno; Maurelli, Manlio; Paoletti, Charles; Merrien, Louis; and Sathicq, Robert, 3,667,652.
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 Karaghiosoff, Milin, 3,638,562.
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 Ross, Louis E.; Lyon, John K.; and Paolucci, Julius J., 3,646,967.
- Paolucci, Paride: *See—*
 Rossi, Giorgio; Micheli, Giannantonio; and Paolucci, Paride, 3,689,522.
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 Helms, Clifford J.; and Papadopoulos, Stelios B., 3,643,595.
 Helms, Clifford J.; and Papadopoulos, Stelios B., 3,666,977.
 Helms, Clifford J.; McMillan, Norman; and Papadopoulos, Stelios B., 3,700,855.
- Papadopoulos, Michael Savvas: *See—*
 Endacott, John Derrick; and Papadopoulos, Michael Savvas, 3,649,739.
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 Scordalides, Constantios A.; and Papageorgiou, Dimitri G., 3,665,940.
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 Starer, Ira; and Papaioannou, Christos George, 3,649,639.
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 Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexandr;

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- Papavasilou, Mary J.: *See—*
 Bean, Arthur R., Jr.; Papavasilou, Mary J.; and Snyder, John L., 3,651,025.
- Papay, Andrew G.: *See—*
 Hollinghurst, Ralph; and Papay, Andrew G., 3,652,410.
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 Classen, Franz; Kaes, Karl; Labrot, Gunter; and Pape, Heinz, 3,649,237.
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 Manasian, Arthur E.; Papenfuss, Carl J.; and Piekarski, William F., 3,674,139.
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 Craig, Grantland A., 3,684,611.
 Craig, Grantland A., 3,696,445.
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- Nystrand, Ernst Daniel; and McIntosh, Brian H., 3,667,468.
- Nystrand, Ernst Daniel, 3,674,608.
- Nystrand, Ernst Daniel, 3,689,061.
- Nystrand, Ernst Daniel, 3,697,010.
- Schaeuble, Edwin K., 3,695,221.
- Small, Rudolph E.; Bradley, John J.; Sanders, Charles J.; and Slawny, Howard J., 3,673,052.
- Small, Rudolph Ernst, 3,694,300.
- Papesh, Edward F.: *See—*
 Papesh, Edward G.; and Papesh, Edward F., 3,649,143.
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 Obenland, Clayton O.; Papetti, Stelvio; and Smith, Hampton D., Jr., 3,674,853.
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 Perras, Colette; and Papillon, Jacques, 3,665,520.
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 Lifshits, Viktor Senderovich; Grigoriev, Viktor Ivanovich; Petrov, Georgy Nikolaevich; and Papkov, Oleg Sergeevich, 3,684,856.
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 Brecher, Charles; Pappalardo, Romano; and Samelson, Harold, 3,677,959.
 Brecher, Charles; Heller, Adam; and Pappalardo, Romano, 3,681,252.
- Pappas, James J.: *See—*
 Keaveney, William P.; and Pappas, James J., 3,637,860.
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 Grankowski, Eugene E.; and Pappas, Lambros A., 3,668,920.
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 Papst, Georg F.; Gierschek, Emil; and Papst, Hans-Dieter, 3,700,358.
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 Merkle, Alfred; Schlicker, Volker; and Wrobel, Gunter, 3,703,221.
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- Paquet, Volker: *See—*
 Geffcken, Walter; and Paquet, Volker, 3,690,932.
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 Violette, Glenn M.; Paquin, Leon J.; and Lock, James A., 3,700,525.
- Paracchini, Mario: *See—*
 Callieri, Michele; Faraci, Giorgio; and Paracchini, Mario, 3,672,147.
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 Guilfoyle, Le Roy F., 3,690,604.
- Paradan, Henri: *See—*
 Bonnerot, Jacques; and Paradan, Henri, 3,646,775.
- Paradis, Daniel L.: *See—*
 Klapprott, David K.; and Paradis, Daniel L., 3,678,130.
 Klapprott, David K.; and Paradis, Daniel L., 3,678,131.
- Paradiso, Mary R.: *See—*
 Dehn, Joseph W., Jr.; and Paradiso, Mary R., 3,661,500.
- Paradysz, Louis F.: *See—*
 Chen, Philip L.; and Paradysz, Louis F., 3,678,820.
 Mason, Lawrence J.; Simpson, George R.; Paradysz, Louis F.; and Chen, Philip L., 3,670,633.
 Mason, Lawrence J.; and Paradysz, Louis F., 3,695,161.
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 Benson, Carl I., Jr., 3,636,909.
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 Gaul, Robert G., 3,640,176.
- Paraisten Kalkki Oy: *See—*
 Myreen, Bertel, 3,675,467.
- Paramatic, Corporation: *See—*
 Kelley, Bernard B., 3,689,616.
- Paramedical Specialties: *See—*
 Chelocci, Kenneth M.; and Thomas, Freddy E., 3,683,931.
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 Andreev, Pavel Alexeevich; Blinov, Konstantin Andreevich; Gremilov, Dmitry Ivanovich; Kanaun, Boris Izrailevich; Kanaev, Andrei Andreevich; Aslanian, Gurken Nazarovich; Paramonov, Pavel Mikhailovich; Panshin, Boris Mikhailovich; Sobolev, Sergei Petrovich; nd Shubenko-Shubin, Leonid Alexandrovich, 3,693,599.
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- Craig, Burnie M., 3,646,289.
 Paramount Packaging Corporation: *See—*
 Davis, Francis A., Jr., 3,654,841.
 Paramount Textile Machinery Company: *See—*
 Allison, Rudolph L., 3,670,860.
 Goellner, Willy J., 3,656,393.
 Parascandola, Louis J.: *See—*
 Thornton, Luke; and Parascandola, Louis J., 3,670,193.
 Paraskewik, William, to United States of America, Navy. Automatic sway brace device. 3,670,620, 6-20-72, Cl. 89-1.50b.
 Parasko, Nicou, to Rhone-Poulenc S.A. Platinum complexes. 3,652,615, 3-28-72, Cl. 260-429.
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 Carr, Norman L.; Paraskos, John A.; and Ko, Daniel Y., 3,639,228.
 Paraskos, John A.; and Somers, Allen E., to Gulf Research & Development Company. Hydrosulfurization of crude and residual oils at reduced space velocity. 3,706,657, 12-19-72, Cl. 208-216.000.
 Parasound, Inc.: *See—*
 Orban, Robert A., 3,670,106.
 Orban, Robert Arnold, 3,684,835.
 Paratt, Noel James: *See—*
 Cannell, John Carjeag; Leaper, Rodney Seymour; and Paratt, Noel James, 3,695,335.
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 Pardon, Roger E.: *See—*
 Curtis, Earl M.; and Pardon, Roger E., 3,666,331.
 Parduhn, Alfred P. Traffic warning device. 3,635,542, 1-18-72, Cl. 350-97.
 Pardun, Hermann, to Lever Brothers Company. Preparation of phosphatides. 3,652,397, 3-28-72, Cl. 195-30.
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 Parent, Jean-Claude: *See—*
 Petit, Roland; Louise, Jean; Parent, Jean-Claude; and Hay, Leon, 3,689,212.
 Parent, Joseph V.: *See—*
 Nelson, Donald R.; Zakaitis, Robert C.; and Parent, Joseph V., 3,648,723.
 Parenteau, Leo R., to Lee, Raymond, Organization, Inc., The. Tilt top golf tee. 3,645,537, 2-29-72, Cl. 273-207.
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 Parez, Louis Albert. System for producing piles moulded in the ground. 3,657,894, 4-25-72, Cl. 61-53.64.
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 Cohen, Richard; Morcines, Harold; and Parfomak, Walter, 3,662,246.
 Parfomak, Walter; and Antipas, George, to Bendix Corporation, The. Full wave phase sensitive demodulators. 3,659,215, 4-25-72, Cl. 329-101.
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 Parikh, Anil Chandrakant: *See—*
 Pacini, Bruno Marcio; Price, Desmond Alfred; and Parikh, Anil Chandrakant, 3,675,408.
 Parikh, Jekishan R.: *See—*
 Beaton, John M.; Van Rheenen, Verlan H.; and Parikh, Jekishan R., 3,679,715.
 Parikh, Jekishan R., to Upjohn Company, The. Process for the 5a,6a-epoxidation of Δ^5 -double bonds. 3,676,433, 7-11-72, Cl. 260-239.550.
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 Parillo, Edward V.: *See—*
 Thomasson, Gene I.; and Parillo, Edward V., 3,634,056.
 Parillo, Vincent, to Bond Stores, Incorporated. Lock rack. 3,659,721, 5-2-72, Cl. 211-7.
 Parini, Mardello. Electric switches. 3,632,930, 1-4-72, Cl. 200-146.
 Paris, Gerard Y.; and Garmaise, David L., to Abbott Laboratories. Certain derivatives of 5-H[4,3-b] and 9-H[3,4-b]-1,2,3,4-tetrahydropyridindoles. 3,654,289, 4-4-72, Cl. 260-295.
 Paris, Gerard Yvon: *See—*
 Garmaise, David Lyon; Paris, Gerard Yvon; and Plotnikoff, Nicholas Peter, 3,705,902.
 Swett, Leo Ralph; and Paris, Gerard Yvon, 3,701,785.
 Paris, Jacques M.: *See—*
 Paris, Rene A.; Thibaudon, Dominique; Roubin, Marc P.; and Paris, Jacques M., 3,704,116.
 Paris, Jean Denel; Mady, Wissous; and Santa-Maria, Enrique, to Compagnie Generale d'Electricite. Power storage and release device superconductive. 3,701,906, 10-31-72, Cl. 307-149.000.
 Paris, Ray J.; and Rudd, Harry M., to Teledyne Mid-America Corporation. Terminal block and method of making the same. 3,665,376, 5-23-72, Cl. 339-198.
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 Paris, Thomas H.: *See—*
 Cresci, Paul A.; and Paris, Thomas H., 3,695,710.
 Parish, Albert A., to K.M.P. Lake Pump Mfg. Co. Wind vane controlling direction and brake means. 3,667,861, 6-6-72, Cl. 416-14.000.
 Parish, Clyde E.: *See—*
 Anderson, John E.; Parish, Clyde E.; and Ross, George H., 3,632,624.
 Anderson, John E.; Parish, Clyde E.; and Ross, George H., 3,655,719.
 Parish, Hal G.: *See—*
 Hanson, Alden W.; Moore, Eugene R.; Schanhals, Louis Robert; and Parish, Hal G., 3,633,630.
 Moore, Eugene R.; Bussey, Marlin G.; and Parish, Hal G., 3,672,951.
 Parish, Hal G.; Paley, Albert J.; and Moore, Eugene R., to Dow Chemical Company, The. Structural panel having foam plastic core. 3,637,459, 1-25-72, Cl. 161-161.
 Parish, Laurence P. Adapter for a water cooler. 3,688,950, 9-5-72, Cl. 222-146.00r.
 Parish, Roger C.: *See—*
 Grass, George M., Jr.; Parish, Roger C.; and Trei, John E., 3,660,562.
 Parish, Roger C.; and Trei, John E., to Smith Kline & French Laboratories. Method of improving feed utilization in ruminants. 3,639,621, 2-1-72, Cl. 424-304.
 Parish, Roger C.; and Trei, John E., to Smith Kline & French Laboratories. Methods and compositions for improving feed efficiency of ruminants using bis-polyhalomethyl derivatives. 3,663,710, 5-16-72, Cl. 424-301.
 Parish, William R.; and Kelley, James C., to Wellman-Lord, Inc. Concentrating fluosilicic acid. 3,645,678, 2-29-72, Cl. 23-153.
 Parish, William R.; and Kelley, James C., to Wellman-Lord, Inc. Concentrating fluosilicic acid. 3,645,679, 2-29-72, Cl. 23-153.
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 Pariset, Andre; and Meimoun, Daniel, to Institut Textile de France. Method for processing cellulosic fibre material. 3,674,539, 7-4-72, Cl. 117-56.000.
 Pariset, Jean: *See—*
 Vidal, Jean; Pariset, Jean; and Lemoine, Jacques, 3,667,217.
 Vidal, Jean; Pariset, Jean; and Lemoine, Jacques, 3,675,426.
 Vidal, Jean; Pariset, Jean; and Lemoine, Jacques, 3,691,760.
 Parizeau, Douglas G. Composition and method for treating mastitis with therapeutic agents. 3,636,194, 1-18-72, Cl. 424-115.
 Park Chemical Company: *See—*
 Foreman, Robert W.; and Pontius, Jon S., 3,661,820.
 Park, Gavin Muldrew: *See—*
 Petronelli, Claudio; and Park, Gavin Muldrew, 3,669,294.
 Park, Glenn S.: *See—*
 Herpich, William A.; Park, Glenn S.; and Palmer, George W., 3,661,281.
 Park, Im K.: *See—*
 Winkler, Ernel R.; and Park, Im K., 3,686,069.
 Park, James Millar. Golf board game. 3,697,072, 10-10-72, Cl. 273-87.00h.

- Park, John R. Towed folding camper having a low profile. 3,697,121, 10-10-72, Cl. 296-23.00r.
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 Park, Joseph D.; and Nakata, Bruce T., to Minnesota Mining and Manufacturing Company. Process for producing fluorinated acids. 3,644,501, 2-22-72, Cl. 260-514.
 Park, Kyu C.: *See—*
 Ahn, Kie Y.; and Park, Kyu C., 3,656,029.
 Park Planning Inc.: *See—*
 Panitz, Leon J., 3,678,639.
 Park, Robert G., to Oklahoma Manufacturing Company. Heat exchanger. 3,681,936, 8-8-72, Cl. 62-333.000.
 Park, Robert H. Method for employment of fast turbine valving. 3,657,552, 4-18-72, Cl. 290-40.
 Park, Sang C. Catheter. 3,704,711, 12-5-72, Cl. 128-305.000.
 Park, Vernon K.: *See—*
 Carter, Edward H., Jr.; Park, Vernon K.; and Seeger, Horst K., 3,674,765.
 Hagemeyer, Hugh J., Jr.; and Park, Vernon K., 3,679,775.
 Johnson, Sam H., Jr.; Mears, Robert A.; and Park, Vernon K., 3,700,758.
 Park, William R. R.: *See—*
 Moore, Eugene R.; and Park, William R. R., 3,679,640.
 Park, Woo C., to Dick, A. B. Company. Electrophotographic printing element containing cyanine sensitizers and a multi-component polymeric binder. 3,682,630, 8-8-72, Cl. 96-1.600.
 Park-A-Bike Corporation: *See—*
 Esposito, John, 3,682,523.
 Park-Cramer Company: *See—*
 Ford, Maynard; and Davis, Albert, 3,665,694.
 Park-Ohio Industries, Inc.: *See—*
 Armstrong, Robert G., 3,662,995.
 Balzer, Norbert R.; and Mucha, George M., 3,659,069.
 Balzer, Norbert R., 3,702,693.
 Balzer, Norbert R.; and Amosky, Joseph E., 3,705,973.
 Cachat, John F., 3,691,339.
 Gillick, Jack W., 3,674,247.
 Griffith, Richard A., 3,699,302.
 Kasper, Robert J., 3,649,804.
 Kasper, Robert Jerry, 3,692,969.
 Lewis, John C., 3,686,459.
 Lewis, John C., 3,696,224.
 Meermans, Ronald A., 3,655,926.
 Meermans, Ronald A., 3,668,354.
 Seyfried, Richard F.; and Balzer, Norbert R., 3,648,995.
 Seyfried, Richard F.; and Balzer, Norbert R., 3,649,798.
 Seyfried, Richard F., 3,684,852.
 Sheetz, Richard S., 3,705,715.
 Vickers, Robert V., 3,649,797.
 Parke, Davis & Company: *See—*
 Blankley, Clifton John, 3,639,422.
 Creger, Paul L., 3,674,836.
 Creger, Paul L.; and Neuklis, Winifred A., 3,707,566.
 Davoll, John; and Johnson, Anthony Michael, 3,652,565.
 DeWald, Horace A.; and Butler, Donald E., 3,660,425.
 Egli, Paul H.; Brenner, Warren W.; and Wilcox Martin H., 3,651,798.
 Elslager, Edward F.; and Worth, Donald F., 3,632,852.
 Elslager, Edward F., 3,647,796.
 Elslager, Edward F.; and Worth, Donald F., 3,668,205.
 Fisher, Myron W.; and Hanessian, Stephen, 3,674,863.
 Garland, Carl C., 3,670,865.
 Garland, Carl C., 3,676,958.
 Graham, Richard J.; Mottin, Ralph E.; and Noren, Oscar B., 3,664,495.
 Haskell, Theodore H.; and Hanessian, Stephen, 3,651,045.
 Haskell, Theodore H.; and Watson, Donald R., 3,703,507.
 Hoefle, Milton L.; and Holmes, Ann, 3,666,771.
 Islip, Peter John, 3,660,417.
 Islip, Peter John, 3,671,650.
 Kaltenbronn, James S.; and Short, Franklin W., 3,682,976.
 Kaltenbronn, James S., 3,706,767.
 Law, Kenneth J.; and Brown, Gordon R., 3,651,465.
 L'Italien, Yvon J., 3,639,477.
 Lockhart, Ian Moyle, 3,637,742.
 Lockhart, Ian Moyle, 3,652,587.
 Meyer, Robert F., 3,639,401.
 Meyer, Robert F., 3,657,246.
 Mottin, Ralph E.; and Oldani, Anthony L., 3,702,653.
 Nicolaidis, Ernest D., 3,700,770.
 Oglevee, Harold J.; and Clement, Bobby R., 3,632,700.
 Parcell, Robert F., 3,669,837.
 Parcell, Robert F., 3,674,834.
 Schweiss, Dieter; and Long, Loren M., 3,641,010.
 Short, Franklin W.; and Hoefle, Milton L., 3,657,270.
 Short, Franklin W., 3,657,281.
 Werbel, Leslie M., 3,637,725.
 Westland, Roger D., 3,651,076.
 Wheeler, Larry M., 3,648,692.
 Wittle, Eugene L., 3,661,976.
 Parke, Davis & Company, *mesne*: *See—*
 Serrell, John L., 3,659,706.
 Parke, Harry G., to Galbraith-Pilot Marine Corporation. Power conversion system. 3,656,046, 4-11-72, Cl. 320-59.
 Parke, Harry G., to Galbraith-Pilot Marine Corporation. Loss of synchronism detector. 3,673,422, 6-27-72, Cl. 307-87.000.
 Parkell, Edward F., to Dart Industries Inc. Apparatus for the transfer of articles. 3,679,041, 7-25-72, Cl. 198-24.000.
 Parken, Edward W.: *See—*
 Fowler, Raymond L.; Parken, Edward W.; Robbins, Larry H.; and Woods, Joe W., 3,666,262.
 Parker, Arden A.: *See—*
 Carlsen, Donald W.; Kotla, John J.; and Parker, Arden A., 3,676,646.
 Parker, Bernard, to Contraves AG, *mesne*. Conductivity cell for particle counting system. 3,648,158, 3-7-72, Cl. 324-30.
 Parker, Bill G. Drill string member and method for manufacture. 3,645,587, 2-29-72, Cl. 308-4.
 Parker, Calvin E., Sr., to Bethlehem Steel Corporation. Strip edge shaping apparatus. 3,680,441, 8-1-72, Cl. 90-24.00f.
 Parker, David George: *See—*
 Bossons, Walter H.; Parker, David George; and Burcher, George D., 3,657,858.
 Parker, David George, to Masson Scot Thrissell Engineering, Limited. Article insertion devices. 3,701,232, 10-31-72, Cl. 53-187.000.
 Parker, Dawood: *See—*
 Clifton, John Stephen; and Parker, Dawood, 3,700,578.
 Clifton, John Stephen; and Parker, Dawood, 3,700,579.
 Parker, Delmer G., to Xerox Corporation. Switching detector. 3,650,619, 3-21-72, Cl. 355-3.
 Parker, Derek: *See—*
 Jacobson, Sydney; Knowles, Denis; and Parker, Derek, 3,674,592.
 Parker, Donald L.: *See—*
 Bennett, Ronald W.; Parker, Donald L.; and Shaw, Arthur R., 3,675,197.
 Parker, Earl E.; Christenson, Roger M.; and Dowbenko, Rostyslaw, to PPG Industries, Inc. Novel mixtures of acrylic monomers and polyester resins. 3,655,823, 4-11-72, Cl. 260-872.
 Parker, Earl E.; and Friedlander, Charles B., to PPG Industries, Inc. Foams formed by hardening emulsions of glycol in polyester resin. 3,673,132, 6-27-72, Cl. 260-2.50n.
 Parker, Eddie R. Roofing clip. 3,646,717, 3-7-72, Cl. 52-548.
 Parker, Edward H.: *See—*
 Harrell, Robert E.; and Parker, Edward H., 3,635,559.
 Parker, Edward H.; Gould, William F.; and Alley, John H., to Western Litho Plate & Supply Co. Apparatus for post-exposure treatment of lithographic plates. 3,682,078, 8-8-72, Cl. 95-89.00r.
 Parker, Eric G., to General Motors Corporation. Windshield wiper apparatus. 3,633,238, 1-11-72, Cl. 15-250.21.
 Parker, Eric G., to General Motors Corporation. Transverse windshield wiping apparatus. 3,644,956, 2-29-72, Cl. 15-250.16.
 Parker, Eric G., to General Motors Corporation. Transverse wiper apparatus. 3,649,989, 3-21-72, Cl. 15-250.16.
 Parker, Eric G.; and Wolf, Charles C., to General Motors Corporation. Squeegee wiper for tailgate windows. 3,686,705, 8-29-72, Cl. 15-250.010.
 Parker, Eric George, to General Motors Corporation. Mechanism for opening and closing a cover for a concealed windshield wiper system. 3,694,846, 10-3-72, Cl. 15-250.160.
 Parker, Ernest G.; and Craine, Richard W., to International Telephone and Telegraph Corporation. Omnidirectional beacon antenna. 3,691,562, 9-12-72, Cl. 343-761.000.
 Parker, Eugene K.: *See—*
 Mayo, Kenneth E.; and Parker, Eugene K., 3,675,244.
 Parker, Fred W.: *See—*
 Anderson, Terry P.; and Parker, Fred W., 3,676,377.
 Parker, Fred W., to Du Pont de Nemours, E. I., and Company. Thermosetting acrylic enamel containing cellulose acetate butyrate. 3,637,546, 1-25-72, Cl. 260-15.
 Parker, Fred W., to Du Pont de Nemours, E. I., and Company. Process for hot spraying a thermosetting acrylic enamel modified with cellulose acetate butyrate. 3,657,001, 4-18-72, Cl. 117-105.1.
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 Parker, Gilbert R., to Lorain Products Corporation. Stripping machine for electrical conductors. 3,638,518, 2-1-72, Cl. 81-9.51.
 Parker, Gordon M.; Wismer, Marco; and Hahn, Ernest A., to PPG Industries, Inc. Acryloxy esters of anhydrides. 3,679,731, 7-25-72, Cl. 260-475.00p.
 Parker, Gordon M.; and Heuser, Raymond C., to PPG Industries, Inc. Acryloxy esters of anhydrides and coating compositions derived therefrom. 3,690,927, 9-12-72, Cl. 117-93.310.
 Parker, Harold F., to General Electric Company. Harmonic suppression circuit. 3,673,503, 6-27-72, Cl. 328-167.000.
 Parker, Harry W., to Phillips Petroleum Company. Water flooding method using gel and viscosity increasing materials. 3,638,729, 2-1-72, Cl. 166-273.
 Parker, Harry W., to Phillips Petroleum Company. Waterflooding method. 3,667,546, 6-6-72, Cl. 166-274.

- Parker, Harry W., to Phillips Petroleum Company. Retorting of nuclear chimneys. 3,698,478, 10-17-72, Cl. 166-248.000.
- Parker, Harry W., to Phillips Petroleum Company. Gel fluid water flooding method. 3,707,191, 12-26-72, Cl. 166-275.000.
- Parker, Herbert William Mansfield, to Pyrotenax Limited. Electric cables. 3,697,671, 10-10-72, Cl. 174-115.000.
- Parker Industries, Inc.: See—
- Parker, Shirley L.; and Rohrer, John D., 3,640,423.
- Parker, James Daniel, III: See—
- Illig, Howard Clayton; Lehder, Wilfred Emile, Jr.; Parker, James Daniel, III; Santacrose, Alfred Michael; and Sheridan, James Arthur, 3,698,533.
- Parker, James H. Oil recovery and clean up system. 3,642,140, 2-15-72, Cl. 210-242.
- Parker, James M., to Parkton Corporation. Lawn mower apparatus. 3,668,845, 6-13-72, Cl. 56-11.600.
- Parker, James W. Coin counting and rolling apparatus. 3,669,131, 6-13-72, Cl. 133-8.00a.
- Parker, John C.: See—
- Anderson, David G.; and Parker, John C., 3,666,912.
- Toy, Raymond M.; Parker, John C.; and Prodder, Brian S., 3,702,037.
- Parker, John C.; and Johnson, Keith M., to Mattel, Inc. Wheel and axle assembly having an entrapped thrust bearing. 3,694,958, 10-3-72, Cl. 46-201.000.
- Parker, John E., to International Business Machines Corporation. Motor armature having an integral driving surface. 3,678,313, 7-18-72, Cl. 310-236.000.
- Parker, John J.: See—
- Morawski, London T.; and Parker, John J., 3,633,929.
- Morawski, London T.; and Parker, John J., 3,701,539.
- Morawski, London T.; and Parker, John J., 3,707,292.
- Morawski, London T.; and Parker, John J., 3,707,293.
- Morawski, London T.; and Parker, John J., 3,707,294.
- Parker, John J.; as Trustee under Parker, John J., Living Trust, The: See—
- Morawski, London T.; and Parker, John J. (said Parker assor. to), 3,707,292.
- Morawski, London T.; and Parker, John J. (said Parker assor. to), 3,707,293.
- Morawski, London T.; and Parker, John J. (said Parker assor. to), 3,707,294.
- Parker, John J., Living Trust, The: See—
- Morawski, London T.; and Parker, John J. (said Parker assor. to), 3,701,539.
- Parker, Joseph Donald, to Electro-Mechanical Design Limited. Ultrasonic transducers. 3,663,841, 5-16-72, Cl. 310-8.2.
- Parker, Leslie I.: See—
- Engle, William H., 3,656,267.
- Parker, Leslie Kearton, to Perkin-Elmer Limited. Quiet slot scanning. 3,648,156, 3-7-72, Cl. 324-5.
- Parker, Levi C.; and Senn, Charles A., III, to Texaco Inc. Process of improving the selectivity of dehydrogenation catalysts. 3,662,018, 5-9-72, Cl. 260-683.3.
- Parker, Levi C.; and Robertson, Odes B., to Texaco Inc. Hydrodesulfurization process. 3,668,112, 6-6-72, Cl. 208-89.
- Parker, Levi Christy; Cooper, Thomas Allen; and Meadows, James Lawson, to Texaco Inc. Olefin separation process. 3,691,246, 9-12-72, Cl. 260-671.00r.
- Parker, Lonnie E. Reusable concrete form alignment device. 3,662,985, 5-16-72, Cl. 249-219.00r.
- Parker, Louis W. Muter for solid state television receivers. 3,686,430, 8-22-72, Cl. 178-5.80a.
- Parker, Louis W. Electric automobile. 3,690,397, 9-12-72, Cl. 180-65.00r.
- Parker Machine Co., Inc.: See—
- Schneider, Joseph C., 3,690,652.
- Parker Manufacturing Company: See—
- Duprey, Francis S., 3,681,845.
- Priest, Edward D., 3,681,844.
- Parker, Marion L.; and Southwick, Hillman, to Western Geophysical Company of America. Marine imploder-type acoustic impulse generator. 3,642,089, 2-15-72, Cl. 181-5.
- Parker, Marvin L. Automobile with robbery prevention partition. 3,632,155, 1-4-72, Cl. 296-24.
- Parker Mfg. Company: See—
- La Pointe, Gabriel M., 3,650,028.
- Parker, Murray Borton, to Du Pont de Nemours, E. I., and Company. Cutting fluid composition of chlorofluoro- and nitroalkanes. 3,634,247, 1-11-72, Cl. 252-51.5.
- Parker, Norman W.; and Schafft, Hugo W., to Motorola, Inc. Piezoelectric resonating device. 3,697,788, 10-10-72, Cl. 310-9.500.
- Parker, Orval H.: See—
- Bowman, Karl R.; Jemison, Lawrence L., Jr.; and Parker, Orval H., 3,692,387.
- Parker, Patrick N.: See—
- Smith, Frank W.; and Parker, Patrick N., 3,654,993.
- Parker, Paul T.: See—
- Neal, Arthur H.; and Parker, Paul T., 3,686,352.
- Parker, Paul Thomas; and Kimberlin, Charles Newton, Jr., to Esso Research and Engineering Company. Normal paraffin alkylation using fluorosulfonic acid and Group V metal fluoride catalyst. 3,636,129, 1-18-72, Cl. 260-683.47.
- Parker, Paul W. Incinerator. 3,658,016, 4-25-72, Cl. 110-8.
- Parker Pen Company, The: See—
- Dyson, John J., 3,632,395.
- Wittnebert, Frederick R., 3,671,132.
- Parker Pen Company, The, mesne: See—
- Smith, Walter J.; and Rafferty, John W., 3,655,427.
- Parker, Phillip H., to Chevron Research Company. Thermoplastic articles. 3,649,431, 3-14-72, Cl. 161-112.
- Parker, Ralph G.: See—
- Koons, Edwin Russell; Parker, Ralph G.; and Rupley, Jeffrey P., 3,634,048.
- Parker, Ralph G., Jr.: See—
- Koons, Edwin Russell; Parker, Ralph G., Jr.; and Rupley, Jeffrey P., 3,698,880.
- Parker, Richard Nigel: See—
- Bennett, Robert Neil; Parker, Richard Nigel; and Burbidge, Bernard Whiting, 3,663,423.
- Parker, Robert E.; Lodge, Malcolm A.; and Jewell, George S., to Canadian Westinghouse Company Limited. Optical pattern tracer. 3,704,372, 11-28-72, Cl. 250-202.000.
- Parker, Robert W.: See—
- French, Elbert E.; and Parker, Robert W., 3,695,102.
- Parker, Robert W.; and McGary, Jacob H., to United States of America, Navy. Cable end fitting. 3,656,210, 4-18-72, Cl. 24-123.00a.
- Parker, Roy A.: See—
- Sauber, Charles R.; and Parker, Roy A., 3,638,832.
- Parker, Russell A., to L & F Machine Co. Press. 3,638,559, 2-1-72, Cl. 100-93.
- Parker, Samuel A.: See—
- Parker, Samuel A.; and Wilding, Edwin L., 3,677,390.
- Parker, Samuel A.; and Wilding, Edwin L., 50% to Griffin & Company, mesne, 25% to Scheu, Louis O., Jr. and 25% to said Parker, Samuel A. Leaf aligning method and machinery. 3,677,390, 7-18-72, Cl. 198-33.00r.
- Parker, Shirley L.; and Rohrer, John D., to Parker Industries, Inc. Tool box for pick-up truck. 3,640,423, 2-8-72, Cl. 220-31.
- Parker, Sidney Glenn, to Texas Instruments, Incorporated. Growth of crystals at a uniform and constant rate. 3,634,044, 1-11-72, Cl. 23-301.
- Parker, Vernon D.: See—
- Seiber, James N.; and Parker, Vernon D., 3,673,190.
- Parker, Vernon D., to Dow Chemical Company, The. Electrolytic reduction of halogenated pyridines. 3,694,332, 9-26-72, Cl. 204-73.00r.
- Parker, Wallace W.: See—
- Kucsma, Michael E.; and Parker, Wallace W., 3,660,149.
- Parker, Wilbur: See—
- Gooding, Chester Martin; Parker, Wilbur; and Melnick, Daniel, 3,671,267.
- Parker, Wilbur Allen: See—
- Cooper, Irwin; Parker, Wilbur Allen; and Melnick, Daniel, 3,671,266.
- Parker, William J.: See—
- Rausch, John T.; and Parker, William J., 3,700,069.
- Parker, William L.; Johnson, Francis; and Martin, John, to Dow Chemical Company, The. Method of producing α -carboxylated 5-membered lactones. 3,697,542, 10-10-72, Cl. 260-326.300.
- Parker-Hannifin Corporation: See—
- Bain, Orville J.; and Jelinek, Jerry G., 3,635,480.
- Brown, Carl A., 3,653,512.
- Brown, Carl A., 3,669,268.
- Brown, Carl A.; and Walter, Frederick L., 3,670,889.
- Brown, Carl A.; and Thomas, Jerald F., 3,701,424.
- Davies, Robert H., 3,673,925.
- Gooding, Harley L., Jr., 3,685,397.
- Green, Kelvin D., 3,646,662.
- Hickey, William G.; and Kenyon, Richard L., 3,691,730.
- Jelinek, Jerry G.; Duesenberry, Gary L.; and McCuiston, Thomas J., 3,656,769.
- Jelinek, Jerry G.; and Reinsch, Edward, 3,694,894.
- Kimmel, Cleve C.; and Moll, John H., 3,633,372.
- Ksieski, Kazimierz T., 3,645,543.
- Lapera, Doninic J., 3,675,853.
- Leibfritz, Kurt W.; and Malinowski, Lester W., 3,633,624.
- Millsap, Norman E., 3,642,290.
- Nilges, William C., 3,675,673.
- O'Sickey, Lawrence B., 3,685,741.
- Pinkstaff, Carlos D., 3,692,037.
- Rice, Orval Leroy, 3,642,027.
- Rich, Beldon L., 3,661,053.
- Rosaen, Nils O., 3,666,101.
- Russell, John G., 3,666,300.
- Sample, Harry, Jr., 3,662,959.
- Schmaus, Robert Leslie, 3,647,332.
- Segro, Basil S., 3,641,802.
- Siwik, Anthony F., 3,640,554.

- Stacey, Hugh J., 3,662,783.
- Stacy, Hugh J., 3,633,617.
- Startman, Paul E., 3,646,964.
- Swindler, Henry A., 3,678,972.
- Ulanovsky, Jack M., 3,693,915.
- Zajac, Theodore S.; and George, Hal E., 3,675,539.
- Parker-Kalon Corporation: See—
- Oestereich, Louis, 3,643,722.
- Parker-Knoll Limited: See—
- Howland, Robin, 3,640,567.
- Parkes, Eric Bernard, to Lucas, Joseph, (Industries) Limited. Liquid level indicator systems. 3,653,017, 3-28-72, Cl. 340-244.
- Parkes, Eric Bernard, to Lucas, Joseph, (Industries) Limited. Electromagnetic horns. 3,656,155, 4-11-72, Cl. 340-388.
- Parkes, Ralph C. Heat transfer roll. 3,667,542, 6-6-72, Cl. 165-89.000.
- Parkes, Ralph C. Dryer damper and control mechanism. 3,705,461, 12-12-72, Cl. 34-191.000.
- Parkhill, Frank J.: See—
- Brown, Albert B.; and Parkhill, Frank J., 3,671,305.
- Parkhill, Laverne O.: See—
- Hawkins, Charles T.; and Parkhill, Laverne O., 3,644,934.
- Parkhurst, George R., to University of California, The Regents of. The Automatic rock thinsectioning machine. 3,672,099, 6-27-72, Cl. 51-3.000.
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- Parkhurst, William R., 3,643,975.
- Parkhurst, William R., to Parkhurst Manufacturing Co., Inc. Retractable tongue stand for trailers. 3,643,975, 2-22-72, Cl. 280-475.
- Parkin, Bernard A., Jr.: See—
- Bunk, Albert R.; Bennett, Bailey; Berry, David A.; Parkin, Bernard A., Jr.; Schuller, Walter H.; and Lawrence, Ray V., 3,652,467.
- Parkin, Bernard A., Jr.; Schuller, Walter H.; and Lawrence, Ray V., to United States of America, Agriculture. Dicarboxylic acid from rosin and process for preparing same. 3,663,523, 5-16-72, Cl. 260-101.
- Parkin, Leslie, to TRW Inc., mesne. Nut guard device. 3,631,757, 1-4-72, Cl. 85-36.
- Parkin, William J., to Sanders Associates, Inc. Tracking system. 3,657,548, 4-18-72, Cl. 250-203.00r.
- Parkin, William J., to Sanders Associates, Inc. Sensing and tracking apparatus. 3,699,345, 10-17-72, Cl. 250-203.00r.
- Parkin, William J.; and Wilson, Joe C., Jr., to Sanders Associates, Inc., mesne. Multiple element sensing apparatus. 3,700,905, 10-24-72, Cl. 250-203.00r.
- Parkin, William J., to Sanders Associates, Inc. Bridge balancing circuit. 3,702,401, 11-7-72, Cl. 250-210.000.
- Parkinson, Alan R., to Goodyear Tire & Rubber Company, The. Process for forming carbamyl thiocarbamyl disulfides. 3,699,166, 10-17-72, Cl. 260-567.000.
- Parkinson Cowan Limited: See—
- Toth, Bela M.; and Thow, Ian, 3,667,447.
- Parkinson, Gerald W.; and Cutting, Jack R., to United Aircraft Corporation. Trim reference for helicopter feel augmentation system. 3,700,995, 10-24-72, Cl. 318-628.000.
- Parkinson, John David: See—
- Browne, Roger Drury; McCurich, Laurence Henry; Parkinson, John David; and Heffer, Edward Charles, 3,675,474.
- Parkinson, Richard Grant; and Griffin, James Richard, to American Standard, Inc. Swivel spray apparatus. 3,647,144, 3-7-72, Cl. 239-456.
- Parkinson, William W.: See—
- Sturm, Bernard J.; and Parkinson, William W., 3,663,504.
- Parkison, Richard G.; and Vanegas, Guillermo J., to American Standard, Inc. Laminar flow device for bathtub fill spouts. 3,642,213, 2-15-72, Cl. 239-590.
- Parkison, Richard G., to American Standard, Inc. Flow control device. 3,697,002, 10-10-72, Cl. 239-535.000.
- Parkman, Paul D.: See—
- Meyer, Harry M., Jr.; and Parkman, Paul D., 3,651,212.
- Parkman, William Terence; and MacCormac, James Kenneth Maxwell, to Elliott Brothers (London) Limited. Automatic flight control systems. 3,670,149, 6-13-72, Cl. 235-150.22.
- Parks, Arcus F.: See—
- McClain, James E.; Parks, Arcus F.; and Scott, Howard L., 3,685,035.
- Parks, Argus F.: See—
- McClain, James E.; and Parks, Argus F., 3,632,933.
- Parks, Charles F., to Air Reduction Company Incorporated. Electroconductive glaze and method for preparation. 3,700,606, 10-24-72, Cl. 252-518.000.
- Parks, Christ F.: See—
- Najvar, Daniel J.; Parks, Christ F.; Bennett, Garry A.; and Nimerick, Kenneth H., 3,651,649.
- Stout, Caleb M.; Nimerick, Kenneth H.; and Parks, Christ F., 3,677,014.
- Parks, Howard L., to Bunker-Ramo Corporation, The. Electrical circuit packaging structure and method of fabrication thereof. 3,705,332, 12-5-72, Cl. 317-101.0cm.
- Parks, Jack G., to United States of America, Army. Ferrofluid ultrasonic signal modulator. 3,663,896, 5-16-72, Cl. 332-51.
- Parks, James D.: See—
- Heal, David; and Parks, James D., 3,698,709.
- Parks, James E.: See—
- Hurat, George S.; and Parks, James E., 3,662,105.
- Parks, John H.: See—
- Hammond, James T.; and Parks, John H., 3,645,245.
- Parks, John M.: See—
- Landis, George G.; Parks, John M.; and Brown, Kenneth L., 3,691,340.
- Parks, Keith W., to Aluminum Company of America. Preheating of dry aggregate for carbon electrodes. 3,687,431, 8-29-72, Cl. 263-52.000.
- Parks, Lyle Homer: See—
- Beck, Roderick Gerald; Parks, Lyle Homer; and Shatila, Mounir Ahmad, 3,634,105.
- Parks, Miles E.; and Scranton, Robert J. Portable card punching apparatus. 3,677,453, 7-18-72, Cl. 225-93.000.
- Parks, Worthel C., to Vaughan & Bushnell Mfg. Co. Impact tool and compound handle-retaining wedge therefor. 3,669,512, 6-13-72, Cl. 306-33.000.
- Parks-Cramer (Great Britain) Ltd.: See—
- Broadbent, Arnold, 3,663,829.
- Stewart, Richard Gordon, 3,707,020.
- Parks-Cramer Company: See—
- Lee, Charles D., Jr., 3,680,297.
- Lee, Charles D., Jr., 3,680,299.
- Mulligan, William L., 3,675,097.
- Saunders, David W., 3,659,407.
- Saunders, David W., 3,659,409.
- Saunders, David W., 3,680,298.
- Parkson Corporation: See—
- Bain, Kenneth Lindsay; and Leonard, Douglas Leslie, 3,656,534.
- Meshner, Terry Bernard, 3,661,203.
- Palmason, Einar H.; and Stevens, Harry R., 3,646,879.
- Parkton Corporation: See—
- Parker, James M., 3,668,845.
- Parlagreco, Thomas J., to Lee, Raymond, Organization, Inc., The. Hair-setting assist. 3,672,376, 6-27-72, Cl. 132-9.000.
- Parlagreco, Thomas J. Hair curler comfort rest. 3,680,564, 8-1-72, Cl. 132-9.000.
- Parlagreco, Thomas J. Beer can stein with attached handle. 3,692,202, 9-19-72, Cl. 220-1.0bc.
- Parlato, Joseph. Simulated baseball game. 3,706,454, 12-19-72, Cl. 273-89.000.
- Parlato, Philip J., to Alarm Products International, Inc. Vibrating switch. 3,671,690, 6-20-72, Cl. 200-61.45r.
- Parlato, Philip Joseph, to Alarm Products International, Inc. Magnetic switch. 3,676,811, 7-11-72, Cl. 335-205.000.
- Parliment, Thomas H.; Clinton, William P.; Scarpellino, Richard; Soukup, Robert J.; and Epstein, Martin F., to General Foods Corporation. Flavor compositions and processes. 3,655,397, 4-11-72, Cl. 99-65.
- Parmater, Lee, to Kal-Equip Company. Meter connection adapter for automobile electrical system tester including diode and shorting switch therefor. 3,660,759, 5-2-72, Cl. 324-29.5.
- Parmelee, Kendall G.: See—
- Chelminski, Stephen V., 3,699,771.
- Parmelee, James K. Rotary free piston gas generator. 3,702,746, 11-14-72, Cl. 417-481.000.
- Parnell, James A., to Bausch & Lomb, Incorporated. Capacitive transducer. 3,668,672, 6-6-72, Cl. 340-200.
- Parnell, James A., to Bausch & Lomb Incorporated. Capacitive transducer drive mechanism for the recording pen of a graphical recorder. 3,683,402, 8-8-72, Cl. 346-32.000.
- Parnell, Robert A. Magnet assembly for magnetic separator. 3,658,178, 4-25-72, Cl. 209-223.
- Parnell, Willis E., 50% to Mason, Howard Carl. Method of catalyzing adhesive cure. 3,666,597, 5-30-72, Cl. 156-305.
- Parnet, Bernard, to Compagnie de Saint-Gobain. Handling and transferring device for plane objects, particularly glass sheets. 3,664,520, 5-23-72, Cl. 214-7.
- Parodi, Di Francesco: See—
- Parodi, Fu Leonardo; and Parodi, Di Francesco, 3,644,943.
- Parodi, Fu Leonardo; and Parodi, Di Francesco. Device for clearing blockages in the outlets of sinks, baths or the like. 3,644,943, 2-29-72, Cl. 4-255.
- Parodi, Luciano; and Ghia, Giancarlo, to Fiat Societa per Azioni. Sealed valve with electromagnetic action. 3,666,231, 5-30-72, Cl. 251-129.
- Parodi, Sandro: See—
- Cameli, Nazzareno; Longi, Paolo; Valvassori, Alberto; and Parodi, Sandro, 3,651,032.
- Parola, Gary D., to Grove Valve and Regulator Company. Silent operating valve. 3,693,659, 9-26-72, Cl. 137-625.300.
- Parolini, Andrea, to Somet Societa Meccanica Tessile S.p.A. Weft drawing gripper for looms. 3,688,807, 9-5-72, Cl. 139-122.00n.

Parone, Anthony D., to Pratt & Whitney Inc. Micrometer spindle locking device. 3,634,943, 1-18-72, Cl. 33-164.

Parone, Anthony D., to Pratt & Whitney Inc. Micrometer backlash adjustment device. 3,698,090, 10-17-72, Cl. 33-164.000.

Paros, Jerome M., to Sundstrand Data Control, Inc., mesne. Pressure sensor. 3,664,237, 5-23-72, Cl. 92-38.

Parouty, Jean Claude: See—
Bidault, Michel; Dossat, Jean; Lelay, Roland; and Parouty, Jean Claude, 3,699,647.

Parr, Edward L., to Thompson, Wendell L. Controller responsive to variation in pressure in one source for varying pressure in another source. 3,650,181, 3-21-72, Cl. 92-48.

Parr, George E., to Sun Oil Company. Continuous, fluidized process and system for thermal recovery of hydrocarbonaceous. 3,663,421, 5-16-72, Cl. 208-8.

Parr, Leslie R.: See—
Boot, Herbert W.; and Parr, Leslie R., 3,704,604.

Parr, Michael K. Vibratory feeder bowl drive apparatus. 3,700,094, 10-24-72, Cl. 198-220.0bc.

Parr, Norman Lawrence; and Brown, Robin Lawford. Spray deposition of silicon powder structures. 3,669,723, 6-13-72, Cl. 117-105.200.

Parr, Richard H., Jr.: See—
Atkinson, Roger F.; Parr, Richard H., Jr.; and Weil, Edward A., 3,697,984.

Parr, Robert A., to Boeing Company, The. Blade inspection system and method. 3,667,862, 6-6-72, Cl. 416-61.000.

Parr, Russell Dale; and Dete, Leo Joseph, Jr., to Carlisle Tire and Rubber Division. Flexible expansion joint for structures. 3,643,388, 2-22-72, Cl. 52-58.

Parr, William Geoffrey, to Imperial Chemical Industries Limited. Apparatus for treatment of sheet structures. 3,638,329, 2-1-72, Cl. 34-122.

Parratt, Noel James: See—
Gooding, Ronald William; and Parratt, Noel James, 3,633,743.

Parrent, Otis L. Contact lens inserter. 3,697,109, 10-10-72, Cl. 294-1.0ca.

Parrent, William Russell: See—
Ulm, Ralph E.; Phillips, Claude F.; Sullivan, Michael J.; Collins, Larry C.; and Parrent, William Russell, 3,666,381.

Parrett, John T., to Koehring Company. Differential pressure holding valve. 3,665,810, 5-30-72, Cl. 91-420.000.

Parrilla, Salvatore C. Interconnected picture frames. 3,648,393, 3-14-72, Cl. 40-152.

Parrinello, Anthony J.: See—
Etter, Doyle O.; and Parrinello, Anthony J., 3,650,742.

Guthrie, William E.; and Parrinello, Anthony J., 3,679,412.

Parrini, Paolo: See—
Credali, Lino; and Parrini, Paolo, 3,687,842.

Credali, Lino; and Parrini, Paolo, 3,696,031.

Parrini, Paolo; Credali, Lino; and Chiolle, Antonio, to Consiglio Nazionale Delle Ricerche and Montecatini Edison S.p.A. Anion-exchange resins and process for preparation thereof. 3,686,100, 8-22-72, Cl. 260-2.10c.

Parris, Chester L.: See—
Schaffhauser, Robert J.; and Parris, Chester L., 3,651,011.

Parris, Peter P., to Tridair Industries. Tie-down fitting. 3,696,759, 10-10-72, Cl. 105-369.00a.

Parrish, Donald Bob; and Pruitt, Ronnie Mac, to Dow Chemical Company, The. Polyurethanes. 3,676,379, 7-11-72, Cl. 260-2.5aq.

Parrish, Hushel L., Jr.: See—
Anderson, Richard M.; Parrish, Hushel L., Jr.; and Spade, Kenneth L., 3,691,786.

Parrish, Robert Guy, to Du Pont de Nemours, E. I., and Company. Microcellular foam sheet. 3,637,458, 1-25-72, Cl. 161-150.

Parrish, Russell C., to Phillips Petroleum Company. Material moving apparatus and method. 3,677,311, 7-18-72, Cl. 141-1.000.

Parry, Curtis L.: See—
Mumma, Harold J.; and Parry, Curtis L., 3,633,506.

Parry, Harvey L.; and Landua, Alton J., to Shell Oil Company. Crystalline 1,5-diglycidylphenylthale and cured products thereof. 3,635,843, 1-18-72, Cl. 260-2.

Parry, James R.: See—
Fox, Marvin L.; and Parry, James R., 3,640,304.

Parry, James W. Bridle bit having improved mouthpiece mounting. 3,670,476, 6-20-72, Cl. 54-8.000.

Parry, John, to Ingenious Devices Limited. Apparatus for providing oil grooves in valve guides. 3,700,343, 10-24-72, Cl. 408-81.000.

Parry, John R., to Campbell Soup Company. Farm machine for removing protective ground covers from a cultivated field. 3,687,392, 8-29-72, Cl. 242-86.50r.

Parry, Keith S.: See—
Webb, Robert M.; and Parry, Keith S., 3,665,209.

Parry, Margaret G.: See—
Parry, Robert D., 3,637,180.

Parry, Philip James: See—
Taylor, Brian; and Parry, Philip James, 3,640,777.

Parry, Robert D.; deceased by Parry, Margaret G., executrix. Wall mount device for guns. 3,637,180, 1-25-72, Cl. 248-203.

Parry, Walter E., to International Business Machines Corporation. Keyboard. 3,684,827, 8-15-72, Cl. 178-17.00c.

Pars, Harry G.: See—
Razdan, Raj K.; Granchelli, Felix E.; and Pars, Harry G., 3,639,426.

Razdan, Raj K.; Granchelli, Felix E.; and Pars, Harry G., 3,639,427.

Razdan, Raj K.; and Pars, Harry G., 3,649,650.

Razdan, Raj K.; Thompson, William R.; Granchelli, Felix E.; and Pars, Harry G., 3,661,919.

Pars, Harry G.; and Granchelli, Felix E. Compound, 2-benzyl-10-(1-cyclohexylethyl)-5, 5-dimethyl-8-hydroxy-1,2,3,4-tetrahydro-5H-[1]-benzopyrano[3,4-d]pyridine. 3,632,595, 1-4-72, Cl. 260-297.

Pars, Harry G.; Granchelli, Felix E.; and Razdan, Raj K., to Little, Arthur D., Inc., mesne. 1,2,3,4-Tetrahydro 5H-[1]benzopyrano[3,4-a]pyridine. 3,635,993, 1-18-72, Cl. 260-297.

Pars, Harry G.; and Razdan, Raj K., to Beecham Group Limited, mesne. Certain 1,2,3,6 or 1,2,5,6-tetrahydropyridine intermediates. 3,652,576, 3-28-72, Cl. 260-297.

Pars, Harry G.; and Granchelli, Felix E., to Little, Arthur D., Inc. Novel 6-oxo-7,8,9,10-tetrahydro-6H-dibenzo [b,d]pyrans. 3,654,312, 4-4-72, Cl. 260-343.2.

Pars, Harry G.; and Granchelli, Felix E., to Little, Arthur D., Inc. 7,8,9,10-Tetrahydro (and 7,8,9,10,11,12-hexahydro) 6H-dibenzo[b,d]pyrans. 3,676,462, 7-11-72, Cl. 260-343.300.

Parson, Edward M. Cable gripping towing device. 3,672,636, 6-27-72, Cl. 254-134.30r.

Parshad, Ram, to Research Corporation. Intercommunication system. 3,665,106, 5-23-72, Cl. 179-1.

Parshall, George W.: See—
Knoth, Walter H., Jr.; and Parshall, George W., 3,701,804.

Parshall, George W., to Du Pont de Nemours, E. I., and Company. Catalysis by dispersions of metal halides in molten trihalostannate (II) and trihalogermanate (II) salts. 3,657,368, 4-18-72, Cl. 260-666.

Parshall, George William, to Du Pont de Nemours, E. I., and Company. Catalytic oxidation of cyclododecene to 1,2-dodecanedioic acid. 3,646,130, 2-29-72, Cl. 260-533.

Parshall, George William, to Du Pont de Nemours, E. I., and Company. Process for the preparation of 2-acyloxycyclodecanones. 3,657,292, 4-18-72, Cl. 260-410.

Parshin, Alexei Nikolaevich: See—
Makachev, Nikolai Ivanovich; and Parshin, Alexei Nikolaevich, 3,677,304.

Makachev, Nikolai Ivanovich; Parshin, Alexei Nikolaevich; Smurov, Georgy Sergeevich; and Stepanets, Alexei Trofimovich, 3,640,316.

Parshin, Alexei Nikolaevich, to Vsesojuzny Nauchno-Issledovatel'skiy Institut Legkogo i Textilnogo Mashinostroeniya. Selvage forming device for looms. 3,685,551, 8-22-72, Cl. 139-122.00s.

Parsi, Edgardo J., to Ionics, Incorporated. Carbonation process for SO₂ removal. 3,645,882, 2-29-72, Cl. 204-301.

Parsi, Edgardo J., to Ionics, Incorporated. Electrolytic cell for removal and recovery of SO₂ from waste gases. 3,661,762, 5-9-72, Cl. 204-301.

Parson, Charles G.: See—
Horvath, Roland J.; and Parson, Charles G., 3,647,523.

Parson, Howard Grubb, Sir, & Company Limited: See—
Macleod, Hugh Angus McIntosh, 3,700,898.

Parson, Ronald F.; Sherman, Richard M.; and Webb, Robert M., to Graco, Inc. Electrostatic powder coating apparatus. 3,667,674, 6-6-72, Cl. 239-15.

Parsons, Billie D. Grain drill with rod weeder. 3,661,101, 5-9-72, Cl. 111-69.

Parsons, C. A., & Company, Limited: See—
Smith, Allen; and Moore, Colin Trevor, 3,632,225.

Parsons, Charles H., to Edwards Company, Inc. Ground detector system having fast response and decoupling of detector circuit. 3,696,366, 10-3-72, Cl. 340-255.000.

Parsons, Charles L. Sorghum seed holder bird feeder. 3,646,911, 3-7-72, Cl. 119-51.

Parsons, Donald S.: See—
Cheney, Richard F.; and Parsons, Donald S., 3,676,083.

Parsons, Gerard A.: See—
Crawford, Richard M.; and Parsons, Gerard A., 3,684,225.

Parsons, Hubert J.; and Peterson, Anders Adolf, to Hardinge Brothers, Inc. Feed chucks. 3,656,772, 4-18-72, Cl. 279-23.

Parsons, Hubert J., to Hardinge Brothers, Inc. Master jaw stepping chuck. 3,638,353, 4-25-72, Cl. 279-121.

Parsons, Hubert J., to Hardinge Brothers Inc. 3 and 4 leaf machine tool collets. 3,669,462, 6-13-72, Cl. 279-51.000.

Parsons, James L.: See—
Ida, Edward S.; Lechner, Alfred; and Parsons, James L., 3,696,206.

Parsons, John F.: See—
Gross, Jerome A., 3,695,340.

Parsons, John K.: See—
Carlton, Gilbert A.; and Parsons, John K., 3,691,710.

Parsons, John T. Use of tape-controlled milling machines to carve combustible casting patterns. 3,635,124, 1-18-72, Cl. 90-11.

Parsons, John T. Self-aligned multi-part combustible casting pattern and method of making same. 3,635,280, 1-18-72, Cl. 164-246.

Parsons, John T. Superimposed modular construction of vaporizable patterns. 3,707,029, 12-26-72, Cl. 29-407.000.

Parsons, Marshall F. Vertical kiln system and process. 3,697,057, 10-10-72, Cl. 263-29.000.

Parsons, Norman C.: See—
Rampy, Gordon A.; Parsons, Norman C.; and Ryder, Mabel H., 3,706,823.

Parsons, Ralph M., Company, The: See—
Beavon, David K., 3,642,448.

Browder, Timothy J., Jr., 3,682,593.

Parsons, Ronald, to Singer Company (U.K.) Limited, mesne. Tufting machines. 3,653,346, 4-4-72, Cl. 112-79.

Parsons, Ronald W., to Allcock Lught and Westwood Limited. Expandable connector for joining tubes. 3,674,293, 7-4-72, Cl. 287-56.000.

Parsons, Ronald W., to Allcock Lught and Westwood Limited. Carriage for skis. 3,695,495, 10-3-72, Cl. 224-29.00r.

Parsons, Stuart L., to AMP Incorporated. Terminal tape and method for making the same. 3,650,706, 3-21-72, Cl. 29-193.5.

Parsons, Timothy F., to Eastman Kodak Company. Diffusion transfer product and process containing 5-seleno-1,2,3,4-tetrazole. 3,655,380, 4-11-72, Cl. 96-29.

Parsons, Walter E.: See—
Richards, Leo O.; and Parsons, Walter E., 3,665,303.

Parsons, Ward H. Automatic loading and signalling system for driver operated vehicles. 3,666,119, 5-30-72, Cl. 214-41.

Partagas, Catalina. Safety shoelaces. 3,683,520, 8-15-72, Cl. 36-50.000.

Partain, James H.; and Johnson, Richard H., to Stone Container Corporation. Mailing container with cushioning cell construction. 3,664,573, 5-23-72, Cl. 229-40.

Partain, James H.; and Johnson, Richard H., to Stone Container Corporation. Paperboard cushioning cell construction. 3,666,168, 5-30-72, Cl. 229-40.000.

Parthasarathy, R.; Scherzer, Julius; and Warthen, John L., to Grace, W. R., & Co. Hydrocracking catalyst. 3,652,459, 3-28-72, Cl. 252-455.

Parthasarathy, R.; and Ciapetta, Frank G., to Grace, W. R., & Co. Oxidation process. 3,666,804, 5-30-72, Cl. 260-530.00n.

Particle Data Inc.: See—
Haigh, Geoffrey T., 3,704,425.

Partin, Melvin E., to Scan-Data Corporation. Character recognition system with simultaneous quantization at a plurality of levels. 3,676,847, 7-11-72, Cl. 340-146.3ac.

Partiot, Maurice. Infrared burners and high efficiency radiant plates. 3,683,058, 8-8-72, Cl. 264-156.000.

Partlow, William D.: See—
Hopkins, Richard H.; Roland, George W.; Partlow, William D.; and Steinbruegge, Kenneth B., 3,632,523.

Hopkins, Richard H.; Roland, George W.; Steinbruegge, Kenneth B.; and Partlow, William D., 3,679,597.

Partos, Frank, to Packaging Research Corporation. Apparatus for making and dispensing coherent masses of a bulk material. 3,633,245, 1-11-72, Cl. 17-32.

Partos, Richard D.; and Darlington, Walter A., to Monsanto Company. Insecticidal oximes. 3,632,758, 1-4-72, Cl. 424-211.

Partovi-Najafabadi, Roohollah. Mechanical voting machine. 3,682,375, 8-8-72, Cl. 235-50.00a.

Partridge, Donald F. Circuit for controlling the conduction of a switching device. 3,652,874, 3-28-72, Cl. 307-252.

Partridge, Gerald J., to Robbins, Jim, Seat Belt Company. Double locking retractable seat belt assembly. 3,664,599, 5-23-72, Cl. 242-107.400.

Partridge, Graham: See—
McMillan, Peter William; Partridge, Graham; and Ward, Frank Russell, 3,637,425.

McMillan, Peter William; and Partridge, Graham, 3,647,489.

Partridge, Harvie C., to Smithpac Canada Ltd. Automatic packer cycle for refuse carrying apparatus. 3,643,824, 2-22-72, Cl. 214-510.

Partridge, Harvie C., to Smithpac Canada Ltd. Vertical packer assembly and guide frame thereof for refuse carrier. 3,688,928, 9-5-72, Cl. 214-83.300.

Partridge, Jerry A.; and Jensen, Reilly C., to United States of America, Atomic Energy Commission. Method for purification of di-(2-ethylhexyl) phosphoric acid. 3,641,226, 2-8-72, Cl. 260-990.

Partridge, Leslie W., to Burdick Corporation, The. Position sensor. 3,636,449, 1-18-72, Cl. 324-157.

Parts, Leo P.: See—
Binning, Robert C.; Parts, Leo P.; Peresie, Robert J.; and Rodenburg, Margaret L., 3,699,210.

Parts, Leo P.; and Hardy, Edgar E., to Monsanto Research Corporation. Method of making a stencil for screen-printing using a laser beam. 3,696,742, 10-10-72, Cl. 101-128.400.

Partyka, Anthony S., to Kraftco Corporation. Method of making a filled sandwich. 3,690,898, 9-12-72, Cl. 99-86.000.

Partyka, Richard Anthony: See—
Holava, Henry Michael; and Partyka, Richard Anthony, 3,663,608.

Juby, Peter Frederick; Hudyma, Thomas William; and Partyka, Richard Anthony, 3,644,479.

Juby, Peter Frederick; Hudyma, Thomas William; and Partyka, Richard Anthony, 3,663,627.

Judy, Peter Frederick; Hudyma, Thomas William; and Partyka, Richard Anthony, 3,696,111.

Partyka, Richard Anthony; Standridge, Robert Ted; and Hall, Barbara Ann, to Bristol-Myers Company. Piperidylpropanol compounds. 3,637,712, 1-25-72, Cl. 260-294.7.

Partyke, Richard Anthony: See—
Holava, Henry Michael; and Partyke, Richard Anthony, 3,666,752.

Partzsch, Peter, to Dornier A.G. Flight measuring apparatus. 3,670,569, 6-20-72, Cl. 73-180.000.

Parups, Eriks, to Pitney-Bowes, Inc. Apparatus for insert trailing edge alignment. 3,692,302, 9-19-72, Cl. 270-58.000.

Parvi, Ludovic: See—
Sobel, Lucien; Parvi, Ludovic; and Isard, Arsene, 3,707,525.

Sobel, Lucien; Parvi, Ludovic; and Isard, Arsene, 3,707,561.

Parvin, Allan I.; and Roome, Douglas P., to Standard Packaging Corporation. Packaging machine. 3,668,820, 6-13-72, Cl. 53-112.00r.

Parzen, Benjamin. Wide band frequency extender for a frequency comparator. 3,660,763, 5-2-72, Cl. 325-363.

Pasbrig, Max. Make-and-break spark plug. 3,693,607, 9-26-72, Cl. 123-143.00r.

Pascal, Forrest A., II.: See—
Paschal, Forrest A.; Stuart, Gerald L.; and Pascal, Forrest A., II., 3,700,274.

Pascal, Fredric Davis: See—
Gottesman, Martin; and Pascal, Fredric Davis, 3,684,532.

Pascal, Pierre: See—
Bernard, Jean Claude; and Pascal, Pierre, 3,649,592.

Pascal, Yves A.: See—
Lucien, Rene; Pascal, Yves A.; and Ghobert, Pierre M., 3,661,052.

Pascale, John V.: See—
Brodnitz, Michael H.; and Pascale, John V., 3,647,481.

Brodnitz, Michael H.; Pascale, John V.; and Vock, Manfred H., 3,686,323.

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Widmark, Rudolph M.; Lichtenstein, Bernard; Paseltiner, Lynn; and Padawer, Jacques, 3,700,555.
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Schmitt, Walti, 3,679,035.
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Waskowsky, Carl A. H. M., 3,692,043.
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Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,635,925.
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,621.
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,622.
Lo Monaco, Sergio; Mazzolini, Corrado; Patron, Luigi; and Moretti, Alberto, 3,637,623.
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Kersten, Karl-Heinz; and Patschan, Wolfgang, 3,673,515.
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Hodge, George R.; and Patsis, Angelos V., 3,642,936.
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Neumann, Dietrich; and Pattberg, Georg, 3,680,069.
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Deminet, Czeslaw; Patten, James W.; and Van Der Mark, Hendrik H., 3,633,267.
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Andrews, Harry N.; Patterson, John F.; and Wilson, John F., 3,647,622.
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Crawford, Wheeler C.; and Patterson, John A., 3,657,364.
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Melrose, David R.; Patterson, Ronald Lowdon Straiton; and Reed, Hugh Charles Brent, 3,681,490.
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Clark, John A., Jr.; Morgan, Lemuel J.; and Kirschner, Robert F., 3,666,003.
Clark, John A., Jr.; Morgan, Lemuel J.; and Kirschner, Robert F., 3,666,918.
Drake, Charles E., 3,636,982.
Fischer, John J., 3,635,443.
Fischer, John J.; and Sibley, John W., 3,685,805.
Kirschner, Robert F.; Clark, John A., Jr.; and Morgan, Lemuel J., 3,633,658.

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- Lowe, Leonard F., 3,672,444.
- Pathy, Agnes, nee Lukats: *See—*
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- Ville, Frans Jan; Willems, Jozef Frans; and Pattijn, Hendrik Adolf, 3,663,229.
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- Gunter, Josef K.; Gunter, C. Walton; Pattillo, Roy E.; and Howe, James W., Jr., 3,681,815.
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- Coussell, Ivan John; and Pattison, Roy, 3,689,843.
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- Zagel, Samuel J.; and Patton, Thomas H., 3,675,006.
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- Patton, Willard Thomas: *See—*
- Richard, Norman; Jean, Robert; Huh, William; and Patton, Willard Thomas, 3,698,000.
- Pattore, Vittorio: *See—*
- Vecchio, Martino; Cammarata, Italo; and Pattore, Vittorio, 3,679,767.
- Pattullo, John Patrick: *See—*
- Mitchell, Colin Campbell, 3,688,726.
- Patusa Aktiengesellschaft: *See—*
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- Moller, Friedrich; Hauptmann, Gunter; and Patzelt, Heinz-Wolfgang, 3,694,510.
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- Serfahs, Arthur S.; and Patzke, Robert C., 3,653,755.
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- Halley, Claude Ansbert Gaston Gustave Pierre, 3,637,950.
- Paul, Donald E.: *See—*
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- Paul, Ian Andrew, to Honeywell Inc. Control circuits for use in automatic control systems. 3,675,050, 7-4-72, Cl. 307-304.000.
- Paul, Igor L., to Ames, B. C., Company. Dial indicators. 3,699,473, 10-17-72, Cl. 55-17.0rr.
- Paul, Jurgen: *See—*
- Brugger, Franz; and Paul, Jurgen, 3,674,319.
- Paul, Marius Angelo: *See—*
- Sfinteanu, Dragos; and Paul, Marius Angelo, 3,633,358.
- Paul, Maynard C.; Sauter, Gerald F.; and Oberg, Paul E., to Sperry Rand Corporation. High density magnetic recording scheme. 3,683,407, 8-8-72, Cl. 346-74.00m.
- Paul, Roy D.; and Blocker, Edwin W., to United Aircraft Corporation. Coating for condenser surfaces. 3,658,581, 4-25-72, Cl. 117-169.
- Paul, Thomas Campbell, to Dowty Meco Limited. Chain conveyors. 3,680,682, 8-1-72, Cl. 198-204.000.
- Paul, William T., to North American Rockwell Corporation. Power transmitting chain with floating bushing and method of manufacture. 3,643,517, 2-22-72, Cl. 74-254.
- Paul, William T.; and Tracy, Wayne R., to North American Rockwell Corporation. Roller chain disconnector apparatus. 3,698,181, 10-17-72, Cl. 59-11.000.
- Paulauskas, Clyde L.: *See—*
- Brooks, David N.; Paulauskas, Clyde L.; and Edin, Ronald E., 3,654,431.
- Paule, Kurt: *See—*
- Klett, Erich; Paule, Kurt; and Hettich, Alfred, 3,691,407.
- Pauley, Eugene E. Building panel and assembly. 3,685,228, 8-22-72, Cl. 52-506.000.
- Pauley, Reginald W., to Ingersoll-Rand Company. Wrenching system and method. 3,643,501, 2-22-72, Cl. 73-133.
- Pauley, Reginald W., to Ingersoll-Rand Company. Signal inhibitor for impact wrench. 3,643,749, 2-22-72, Cl. 173-12.
- Paulfus, Bernard, to Noma-World Wide Inc. One-piece socket for decorative light. 3,660,801, 5-2-72, Cl. 339-97.
- Pauli, Gunter: *See—*
- Euer, Hartmut; and Pauli, Gunter, 3,665,505.
- Pauli, Otto: *See—*
- Daum, Werner; Paulus, Wilfried; and Pauli, Otto, 3,645,715.
- Pauliukonis, Richard S. Elastomeric valve. 3,666,230, 5-30-72, Cl. 251-63.500.
- Pauliukonis, Richard S. Metering valve. 3,672,396, 6-27-72, Cl. 137-512.000.
- Pauliukonis, Richard S. Pneumatic/hydraulic pressure actuated positive displacement pump. 3,676,022, 7-11-72, Cl. 417-392.000.
- Pauliukonis, Richard S. Quick exhaust valve. 3,680,582, 8-1-72, Cl. 137-102.
- Pauliukonis, Richard S. Control valve. 3,696,835, 10-10-72, Cl. 137-625.600.
- Pauliukonis, Richard S. Plastic actuating cylinder. 3,703,125, 11-21-72, Cl. 92-85.000.

- Pauliukonis, Richard S. Simple control valves. 3,706,325, 12-19-72, Cl. 137c625.660.
- Paull, Henry, Jr., to Central Paper Company. Filter apparatus and method. 3,672,507, 6-27-72, Cl. 210-77.000.
- Paull, Kenneth D.: *See—*
- Pettit, George R.; Fessler, Dyrac C.; and Paull, Kenneth D., 3,682,895.
- Paull, Melvin. Surveillance and alarm system. 3,648,268, 3-7-72, Cl. 340-276.
- Paull, Peter L.; and Armistead, Fontaine C., to Texaco Development Corporation. Hydraulic lift for amphibious craft. 3,683,629, 8-15-72, Cl. 61-8.000.
- Paull, Stephen, to Constellation Science and Technology Corporation. mesne. Utility meter remote automatic reading system. 3,656,112, 4-11-72, Cl. 340-151.
- Paulonis, Daniel F.: *See—*
- Owczarski, William A.; Oblak, John M.; and Paulonis, Daniel F., 3,676,225.
- Paulonis, Daniel F.; Duvall, David Scott; and Owczarski, William A., to United Aircraft Corporation. Diffusion bonding utilizing transient liquid phase. 3,678,570, 7-25-72, Cl. 29-498.000.
- Pauloski, Chester E., to Dow Chemical Company, The. Process for making substituted crotonates. 3,639,445, 2-1-72, Cl. 260-473.
- Pauls, James D.: *See—*
- Boxer, Leo M.; and Boxer, Robert W., 3,703,974.
- Paulsen, Duane Owen: *See—*
- Hughes, Charles Thomas; and Paulsen, Duane Owen, 3,682,688.
- Paulsen, Duane Owen, to Du Pont de Nemours, E. I., and Company. Oil and water repellent cosmetic powder. 3,632,744, 1-4-72, Cl. 424-69.
- Paulsen, Glen E.: *See—*
- Lau, John F., Jr.; and Paulsen, Glen E., 3,638,827.
- Paulsen, Glen E., to T. O. Plastics. Depth finding device. 3,646,684, 3-7-72, Cl. 33-126.5.
- Paulsen, Jens C. Wrist band with high resistance to expansion and relatively low contractive force. 3,693,375, 9-26-72, Cl. 63-5.00r.
- Paulsen, Paul L.: *See—*
- Bernier, Robert N.; Blackmer, Dwight; and Paulsen, Paul L., 3,704,838.
- Paulsen, Robert M.: *See—*
- Buening, Jerome M.; Paulsen, Robert M.; and Robinette, Clifford A., 3,666,282.
- Paulson, Allen E. Cycle counter for jet engines. 3,670,565, 6-20-72, Cl. 73-117.300.
- Paulson, Carl G., to Hayes, C. I., Inc. Apparatus for heat treating metallic articles. 3,704,871, 12-5-72, Cl. 263-2.00r.
- Paulson, Donald C., to New Britain Machine Company, The. Plastics injection-molding machine utilizing premixed billets. 3,698,845, 10-17-72, Cl. 425-145.000.
- Paulson, Elmir E.: *See—*
- Krebs, James N.; and Paulson, Elmir E., 3,703,081.
- Paulson, Erland G.; and Mandala, Charles G., to Eldon Industries, Inc. Buoyancy type weighing scale. 3,701,391, 10-31-72, Cl. 177-207.000.
- Paulson, Harold E. Printing press feeder. 3,655,181, 4-11-72, Cl. 271-29.
- Paulson, Harold E. Printing press feeder. 3,685,821, 8-22-72, Cl. 271-29.000.
- Paulson, Loree A. D.; Cahoon, John A.; and Frogameni, James, to Worthington Compressor and Engine International; division of Worthington Corporation. Rotatable boom turret assembly. 3,648,956, 3-14-72, Cl. 248-2.
- Paulson, Theodore C. Mold for a hollow block. 3,669,402, 6-13-72, Cl. 249-150.000.
- Paulson, Thomas M.: *See—*
- Chaffee, Mack R.; and Paulson, Thomas M., 3,634,162.
- Paulssen, Walter A.; and Johnston, Robert R., to Dresser Industries, Inc. Safety brake. 3,706,361, 12-19-72, Cl. 188-189.000.
- Paulstra: *See—*
- Bremond, Genevieve, 3,637,088.
- Jouade, Pierre, 3,662,616.
- Paulus, Ray A.: *See—*
- Porter, Donald E.; and Paulus, Ray A., 3,645,250.
- Paulus, Rudolf; and Huber, Hans-Peter, to Agfa-Gevaert Aktiengesellschaft. Arrangement for determining frame lengths on film strips. 3,699,349, 10-17-72, Cl. 250-219.0fr.
- Paulus, Wilfried: *See—*
- Daum, Werner; Paulus, Wilfried; and Pauli, Otto, 3,645,715.
- Paulve, Marcel Luc Amedee. Electromechanical apparatus for checking and signalling the position of a railway-track switch or the like. 3,679,895, 7-25-72, Cl. 246-253.000.
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- Pauly, Donald E., to Telemation, Inc. Shifting phase in a television camera. 3,670,181, 6-13-72, Cl. 307-262.000.
- Pauly, Donald E., to Telemation, Inc. High frequency multiple phase signal generator. 3,671,872, 6-20-72, Cl. 328-55.000.
- Pauly, Ronald R.: *See—*
- Freilstick, Lee J.; and Pauly, Ronald R., 3,703,785.
- Pauly, Ronald R., to Tonka Corporation. Axle mounting for toy vehicles. 3,668,806, 6-13-72, Cl. 46-201.000.
- Pauly, Walter W., to Stanton Magnetics, Inc. Speaker protective circuit. 3,686,511, 8-22-72, Cl. 307-202.000.
- Paumen, Robert J. M.: *See—*
- Van Saane, Pieter; and Paumen, Robert J. M., 3,692,763.
- Paumier, Inc.: *See—*
- Clendenin, William H.; and Paumier, Thomas B., 3,653,301.
- Paumier, Thomas B.: *See—*
- Clendenin, William H.; and Paumier, Thomas B., 3,653,301.
- Paunovic, Milan, to Photocircuits; division of Kollmorgen Corporation. Electroless plating baths with improved deposition rates. 3,645,749, 2-29-72, Cl. 106-1.
- Pause, Helmut: *See—*
- Vogt, Herbert; and Pause, Helmut, 3,640,123.
- Pause, Kurt, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Liquid-solid separator. 3,648,926, 3-14-72, Cl. 233-20.
- Pause, Kurt. Centrifuge drum with discharge openings. 3,662,947, 5-16-72, Cl. 233-47.
- Pause, Kurt, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Spindle for centrifuges. 3,664,151, 5-23-72, Cl. 64-1.000.
- Paustian, John E.; and De Thomas, Waldo, to Thiokol Chemical Corporation. Process for preparing hydrazinium diperchlorate. 3,632,318, 1-4-72, Cl. 23-35.
- Paustian, John E.; and Fein, Marvin M., to Thiokol Chemical Corporation. High-energy propellant containing coated hydrazinium azide. 3,667,524, 6-6-72, Cl. 149-8.000.
- Pautrat, Rene: *See—*
- Leonard, Didier; and Pautrat, Rene, 3,654,442.
- Pautz, Donald W.: *See—*
- Koons, Harold O.; Pautz, Donald W.; and Gardner, Willis W., 3,653,350.
- Pauwels, William A.; and Nystrom, Robert G., to Loctite Corporation. Dispensing of hardenable liquids. 3,638,831, 2-1-72, Cl. 222-1.
- Pauza, William Vito: *See—*
- Kunkle, John Philip; and Pauza, William Vito, 3,639,893.
- Pauza, William Vito, to AMP Incorporated. Staking electrical contact and method of making an electrical connector. 3,634,601, 1-11-72, Cl. 174-68.5.
- Pauza, William Vito, to AMP Incorporated. Power frame for integrated circuit. 3,651,448, 3-21-72, Cl. 339-112.
- Pavelle Corporation, The: *See—*
- Aston, Keith, 3,640,618.
- Long, John Geoffrey, 3,647,296.
- Pavelle, James Clinton. Multiple design viewer. 3,680,227, 8-1-72, Cl. 35-27.000.
- Paverrick, Stanford. Feeding mat. 3,637,454, 1-25-72, Cl. 161-44.
- Pavia, Edgar H. Manufacture of sodium hypochlorite. 3,702,234, 11-7-72, Cl. 23-86.000.
- Pavia, Robert J. Ducting. 3,688,803, 9-5-72, Cl. 138-173.000.
- Pavlik, Stanley C.: *See—*
- Franke, Norman W.; Pavlik, Stanley C.; and Porter, Warren K., Jr., 3,706,676.
- Pavlik, Stanley C., to Gulf Research & Development Company. Detergent compositions. 3,676,373, 7-11-72, Cl. 252-531.000.
- Pavilion, Stanley J., to Mc Kee, Arthur G., & Company. Method of repairing tube structures. 3,638,684, 2-1-72, Cl. 138-97.
- Pavleszek, John; and Zugic, Joseph Paul, to American Can Company. Necking-in die pilot. 3,680,350, 8-1-72, Cl. 72-358.000.
- Pavlik, Frank J., to Minnesota Mining and Manufacturing Company. Esters of perfluoro-tertiaryalkyl alcohols and hydrocarbyl or halo-hydrocarbyl carboxylic acids. 3,668,233, 6-6-72, Cl. 260-471.00c.
- Pavlik, Kamil: *See—*
- Jindra, Karel; Pavlik, Kamil; Kas, Josef; Kocian, Zdenek; Hanjs, Vacav; and Tyls, Jaroslav, 3,681,907.
- Pavlik, Norman M., to Westinghouse Electric Corporation. Non-reactive refractory separating coatings for electrical steels. 3,671,335, 6-20-72, Cl. 148-28.000.
- Pavlin, Cyrille Francois: *See—*
- Soviche, Gilles Andre Paul; Bues, Jean Pierre; Pavlin, Cyrille Francois; and Mace, Edouard Maurice Eugene Aime, 3,654,945.
- Pavlov, James, to Mica Corporation. The. Printed circuit board fabrication by electroplating a surface through a porous membrane. 3,691,007, 9-12-72, Cl. 161-213.000.
- Pavlov, Gely Georgievich: *See—*
- Shalyt, German Mikhailovich; Sidorchuk, Svetlana Efimovna; and Pavlov, Gely Georgievich, 3,671,856.
- Pavlov, Leonid Viktorovich: *See—*
- Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexandr; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikhailovich; Shevisov, Anatoly Ivanovich; Grinspon, Semen Yakovlevich; Sysenko, Anatoly Pavlovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toschev, Alexandr Mikhaivich, 3,687,188.
- Pavlov, Nikolai Ivanovich: *See—*

- Kusovsky, Boris Isaakovich; Pavlov, Nikolai Ivanovich; Matichenko, Anatoly Petrovich; Zakharov, Sergei Alexandrovich; and Birjukov, Dmitry Anatolevich, 3,704,222.
- Pavlovic, Jack Dale: *See—*
Carboni, Victor B.; and Pavlovic, Jack Dale, 3,682,282.
- Pavon, Miguel Sancho: *See—*
Ducrot, Alain Jean Edmond; Poulain, Jacques Constant; Pavon, Miguel Sancho; and Turpin, Michel Louis, 3,694,333.
- Paweck AG: *See—*
Bergner, Siegfried, 3,667,269.
- Pawl, Walter S. Vehicle anti-skid and anti-spin signal and control device, 3,668,629, 6-6-72, Cl. 340-53.000.
- Pawlak, Daniel E.: *See—*
Friant, James E.; Pawlak, Daniel E.; and Goode, John W., 3,687,076.
- Pawletko, Joseph P.: *See—*
Abraham, Dennis B.; and Pawletko, Joseph P., 3,694,725.
Chai, Hi D.; Mills, Stephen H.; Pawletko, Joseph P.; Peters, Francis E.; and Young, Carl T., 3,705,370.
Jakubowski, Marek; and Pawletko, Joseph P., 3,636,429.
- Pawlicki, Heinrich R. Deformable fibreglass reinforced supporting element, 3,660,215, 5-2-72, Cl. 161-57.
- Pawlina, Julian S., to Tecumseh Products Company. Spark arrester and muffler construction, 3,677,364, 7-18-72, Cl. 181-36.00r.
- Pawloski, Chester E., to Dow Chemical Company, The. 4,7-Dihydro-2-styryl-1,3-dioxepins, 3,635,958, 1-18-72, Cl. 260-240.
- Pawloski, Chester E., to Dow Chemical Company, The. Certain 1-(2-propynyl)-2-(1H)-pyridones, 3,635,996, 1-18-72, Cl. 260-297.
- Pawloski, Chester E., to Dow Chemical Company, The. 2-Propynyl ester of N-acetyl anthranilic acid, 3,636,078, 1-18-72, Cl. 260-471.
- Pawloski, Chester E., to Dow Chemical Company, The. Substituted 1,3-dioxepins, 3,652,594, 3-28-72, Cl. 260-338.
- Pawloski, Chester E.; and Stewart, Russell L., to Dow Chemical Company, The. Allene chlorination, 3,663,633, 5-16-72, Cl. 260-654.
- Pawloski, Chester E.; and Stewart, Russell L., to Dow Chemical Company, The. Methylacetylene chlorination, 3,700,735, 10-24-72, Cl. 260-597.00r.
- Pawloski, James A. Powered cutting tool and cutting head therefor, 3,654,700, 4-11-72, Cl. 30-247.
- Pawsat, Carlton P., to Wald Manufacturing Company, Incorporated. Bicycle training wheel bracket, 3,642,305, 2-15-72, Cl. 280-293.
- Pawsat, Carlton P.; and Humlong, Robert F., to Wald Manufacturing Company, Incorporated. Adjustable support for kickstand, 3,647,242, 3-7-72, Cl. 280-298.
- Pawsat, Carlton P.; and Humlong, Robert F., to Wald Manufacturing Company, Incorporated. Reflector pedal for cycles, 3,659,478, 5-2-72, Cl. 74-594.4.
- Pawsat, Carlton P.; and Humlong, Robert F., to Wald Manufacturing Company, Incorporated. Reflective pedal, 3,701,289, 10-31-72, Cl. 74-594.400.
- Pawsat, Carlton P.; and Humlong, Robert F. Reflective pedal, 3,701,290, 10-31-72, Cl. 74-594.400.
- Pawsat, Carlton P.; and Humlong, Robert F., to Wald Manufacturing Company, Incorporated. Handlebar with reflector-receptive recessed areas, 3,707,319, 12-26-72, Cl. 350-97.000.
- Pawson, Beverly Ann; and Saucy, Gabriel, to Hoffmann-La Roche Inc. Juvabione and derivatives thereof, 3,641,156, 2-8-72, Cl. 260-586.
- Paxhia, Emmanuel A.; and Willett, David A., to Sybron Corporation. Radiation moisture measuring system having thermoelectrically cooled detector, 3,703,639, 11-21-72, Cl. 250-83.30h.
- Paxton, Douglas R.; and Talbott, George Robert, to Paxve, Inc. Burner, 3,690,807, 9-12-72, Cl. 431-1.000.
- Paxton, Douglas Ray. Variable dwell cam advance mechanism, 3,687,010, 8-29-72, Cl. 91-262.000.
- Paxton, William H.: *See—*
Ebert, Robert J.; and Paxton, William H., 3,692,254.
- Paxve, Inc.: *See—*
Paxton, Douglas R.; and Talbott, George Robert, 3,690,807.
- Paya Rico, Raimundo. Spring-operated driving mechanism for toy micro-vehicles, 3,647,025, 3-7-72, Cl. 185-39.
- Payet, George Louis; and Forg, John H., to McGraw-Edison Company. Method and apparatus for producing a durable press in garments containing cellulose or cellulosic derivatives, 3,660,013, 5-2-72, Cl. 8-116.400.
- Payk, Heinz: *See—*
Kipp, Adolf; and Payk, Heinz, 3,646,799.
- Paymal, Jean, to Compagnie de Saint-Gobain. Method and apparatus for production of fibers from thermoplastic materials, particularly glass fibers, 3,634,055, 1-11-72, Cl. 65-6.
- Paymal, Jean, to Compagnie de Saint-Gobain. Continuous production of composite panels, particularly for buildings, 3,671,355, 6-20-72, Cl. 156-324.000.
- Payne, Arthur D.; and Reinheimer, Harry J., to International Business Machines Corporation. Error detecting and correcting system and method, 3,659,089, 4-25-72, Cl. 235-153.
- Payne, Billy D.: *See—*
Watson, James W.; and Payne, Billy D., 3,702,777.
- Payne, Burlly R. Audible psychogalvanometer, 3,648,686, 3-14-72, Cl. 128-2.1.
- Payne, Charles C.: *See—*
Oberhofer, Alfred W.; Anderson, Donald R.; and Payne, Charles C., 3,664,870.
- Payne, Charles C., to Nalco Chemical Company. Silica sol compositions, 3,689,431, 9-5-72, Cl. 252-313.00s.
- Payne, Clarence Oval, Sr. Sewer lift alarm system, 3,644,916, 2-22-72, Cl. 340-244.
- Payne, Derek G., to Grafton, Walter, & Son Limited. Spools for business machines, 3,653,605, 4-4-72, Cl. 242-74.
- Payne, Donald C.: *See—*
Brunett, Carl J.; and Payne, Donald C., 3,683,184.
- Payne, Francis M., to Spra-Kleen Company, Inc., The. Humidifier unit for warm air heating systems, 3,689,037, 9-5-72, Cl. 261-105.000.
- Payne, George B., to Shell Oil Company. Sulfur ylid production, 3,644,487, 2-22-72, Cl. 260-481.
- Payne, Harold A. Structural connections, 3,669,479, 6-13-72, Cl. 287-189.36c.
- Payne, Harold J. W., to Robertson, H. H., Company. Method of making coated panels, 3,649,324, 3-14-72, Cl. 117-9.
- Payne, Harold R., to Borg-Warner Corporation. Defrosting arrangement and method for a refrigeration system, 3,677,025, 7-18-72, Cl. 62-81.000.
- Payne, Herbert James: *See—*
Brown, Lewis Judson; Lippy, Joseph Edmund, Jr.; and Payne, Herbert James, 3,632,487.
- Payne, Jimmie Sturgis, Jr., to Reichhold Chemicals, Inc. Process for improved curing of unsaturated polyester resin compositions and resulting product, 3,649,711, 3-14-72, Cl. 260-863.
- Payne, Mackey M.; and Harper, John S., Jr. Conveyor apparatus, 3,707,218, 12-26-72, Cl. 198-109.00s.
- Payne, Nigel: *See—*
Nightingale, Douglas Daniel; and Payne, Nigel, 3,688,798.
- Payne, Paul E.: *See—*
Ragsdale, Robert G.; and Payne, Paul E., 3,643,023.
- Payne, Peter Charles John: *See—*
Kilgour, John; Payne, Peter Charles John; Reid, John Stewart; and Everett, Eric George, 3,690,048.
- Kilgour, John; Payne, Peter Charles John; Reid, John Stewart; and Everett, Eric George, 3,690,050.
- Payne, Philip A.: *See—*
Hermle, Paul A.; and Payne, Philip A., 3,654,034.
- Payne, Robert A., to Stewart-Warner Corporation. Display system with solid matrix display board, 3,638,215, 1-25-72, Cl. 340-324.
- Payne, Robert A.; and Van der Molen, John F., to Stewart-Warner Corporation. Zero offset numerical servo machine control system, 3,665,280, 5-23-72, Cl. 318-572.
- Payne, Robert L., to Bourns, Inc. Variable resistor pin terminal and method, 3,659,245, 4-25-72, Cl. 338-312.
- Payne, Robert M.: *See—*
Andrews, Russell W.; Kolesar, Paul M.; Payne, Robert M.; and Posner, Howard G., 3,651,511.
- Payne, Roy David, to International Standard Electric Corporation. Pulse analyzer, 3,678,252, 7-18-72, Cl. 235-92.0ev.
- Payne, Stanley D.; Hill, Donald E.; and Walker, Robert G., to Industrial Products, Inc. Wire coil stripper and inserting device, 3,685,118, 8-22-72, Cl. 29-205.00r.
- Payne, Sumas. Vehicle theft signalling device, 3,703,703, 11-21-72, Cl. 340-63.000.
- Payne, Vivian H., to Cameron Iron Works, Inc., mesne. Pressure operated-positive displacement shuttle valve, 3,642,020, 2-15-72, Cl. 137-112.
- Payne, Vivian Hershel, to Offshore Systems Inc. Three position valve, 3,683,966, 8-15-72, Cl. 137-625.480.
- Payne, William B., to Scripto, Inc. Method of producing a heat treated beryllium copper tip for a ball point writing instrument, 3,643,319, 2-22-72, Cl. 29-441.
- Payne, Winslow C.; and Trotter, Gerard M., to Warner & Swasey Company, The, mesne. Co-ordinated periodic lubrication system for machine tools, 3,678,631, 7-25-72, Cl. 51-165.770.
- Paynter, John; and Morgan, John R., to General Electric Company. Electrochemical cell with manganese oxide catalyst and method of generating electrical energy, 3,649,361, 3-14-72, Cl. 136-86.
- Paynter, John; and Morgan, John R., to General Electric Company. Method of forming a catalyst, catalyst coated powder and electrode, 3,649,365, 3-14-72, Cl. 136-120.
- Paynter, William D.; and Kielsmeier, Elwood W., to Mayer, Oscar, & Co., Inc. Preparation of packaged sliced dry sausage, 3,634,102, 1-11-72, Cl. 99-174.
- Payrau, Paul Bertrand: *See—*
Moczar, Madeleine Csanadi; Moczar, Elemer; and Payrau, Paul Bertrand, 3,676,298.
- Payraudeau, Henri Andre Charles: *See—*
Payraudeau, Hubert Michel Henri; and Payraudeau, Henri Andre Charles, 3,683,573.
- Payraudeau, Hubert Michel Henri; and Payraudeau, Henri Andre Charles, to Technab, Les Brouzils (Vendee). Process for covering buildings, particularly dwellings, and the dwellings obtained by ap-

- plication of this or a similar process, 3,683,573, 8-15-72, Cl. 52-235.000.
- Payrhammer, Bernd: *See—*
Frisch, Hans Otto; and Payrhammer, Bernd, 3,692,322.
- Payrhammer, Bernd, to Marker, Hannes. Toe iron for safety ski bindings, 3,698,732, 10-17-72, Cl. 280-111.35t.
- Payrissat, Maurice: *See—*
Wurm, Joseph-Gerard; and Payrissat, Maurice, 3,666,425.
- Payson, Buford L., to Roberts Consolidated Industries, Inc. Carpet stretcher with ratchet handle, 3,692,278, 9-19-72, Cl. 254-62.000.
- Payson, Buford L., 25% to Strauss, Robert E. Carpet stretcher improvements, 3,693,936, 9-26-72, Cl. 254-62.000.
- Payton, Charles E.; and Patterson, Waldo C., to Continental Oil Company. Automatic sample changer for a goniometer with means to accommodate samples of different thicknesses, 3,654,460, 4-4-72, Cl. 250-51.5.
- Payton, Joy T.: *See—*
Harmsberger, Bobby G.; and Payton, Joy T., 3,654,990.
Harmsberger, Bobby G.; and Payton, Joy T., 3,654,991.
Harmsberger, Bobby G.; and Payton, Joy T., 3,654,992.
- Paz, Pascual S. Automatic occupied trip counting apparatus, 3,674,986, 7-4-72, Cl. 235-30.00a.
- Pazder, George J., Jr.: *See—*
Hessler, Henry M., 3,677,313.
- Pazhia, Vincent B.; and Bossler, Franklin B., to Textron, Inc. Quiet jet discharge nozzle, 3,695,388, 10-3-72, Cl. 181-33.00f.
- Pbuchi, Kazuo; and Honjo, Satoru. Process for the production of a transparent original, 3,653,938, 4-4-72, Cl. 117-15.
- Pchelkina, Valentina Mikhailovna: *See—*
Shepelyakovskiy, Konstantin Zakharovich; Ushakov, Boris Konstantinovich; Devyatkin, Vasily Petrovich; Devyatkov, Vladimir Fedorovich; Shakhov, Vasily Ivanovich; Kachkanov, Nikolai Nikolaevich; Gazarov, Leon Alexandrovich; Pchelkina, Valentina Mikhailovna; Drbunov, Mikhail Alexandrovich; and Vologdin, Vladislav Valentinovich, 3,682,519.
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Schuman, Pau D.; Stump, Eugene C., Jr.; and Rachow, Stephen, 3,654,273.
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Herpich, William A.; Park, Glenn S.; and Palmer, George W., 3,661,281.
Herpich, William A.; Cooley, Charles R.; and Shoup, Loren A., 3,662,910.
- Peacher, Teddy J., to United States of America, Army. Automatic beam scanning apparatus for evaluating optical beacons, 3,706,498, 12-19-72, Cl. 356-121.000.
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Self, Joseph A.; Sovereign, Gerald W.; and Peacock, Alton E., 3,663,352.
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Schneller, Stephen G., 3,642,152.
- Peacock, Dixon W.; and Needham, Riley B., to Phillips Petroleum Company. Aiding auto-ignition in tar sand formation, 3,680,634, 8-1-72, Cl. 166-261.000.
- Peacock, Frederick Charles: *See—*
Freeman, Peter Frank Hilary; Markey, Roger Franklin Joseph; Peacock, Frederick Charles; and Sharpe, Stuart Peter, 3,657,247.
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- Peacock, Jack, to McCorquodale & Company Limited. Printing of cheques, 3,692,298, 9-19-72, Cl. 270-12.000.
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Barkstrom, Reynold; and Peacock, Peter J., 3,635,494.
Scarnato, Thomas J.; and Peacock, Peter J., 3,633,345.
Scarnato, Thomas J.; Adams, James R.; Keller, Arthur H.; and Peacock, Peter J., 3,637,237.
Scarnato, Thomas J.; Meyer, Martin H.; and Peacock, Peter J., 3,641,750.
Scarnato, Thomas J.; Tufts, Guy O.; Peacock, Peter J.; and Cicci, George B., 3,672,138.
Scarnato, Thomas J.; Peacock, Peter J.; Cicci, George B.; Krage, Paul W.; and Kowalik, John J., 3,683,602.
Scarnato, Thomas J.; Peacock, Peter J.; and Kowalik, John J., 3,699,758.
Tufts, Guy O.; Scarnato, Thomas J.; and Peacock, Peter J., 3,670,483.
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De Core, Fred; Peake, Thaddeus A.; and Marshall, Ted R., 3,668,768.
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- Peale, Robert E. Adjustable axis work support, 3,700,228, 10-24-72, Cl. 269-61.000.
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Baxley, James R., 3,645,752.
- Pear, Charles B., Jr.: *See—*
Murray, Joseph John; and Pear, Charles B., Jr., 3,665,436.
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- Pearce, Brian: *See—*
Harding, Albert Frederick; Pearce, Brian; and Thomas, William Llewelyn, 3,693,455.
- Pearce, Christopher A.: *See—*
Fulton, Michael; Jones, John Darrell; and Pearce, Christopher A., 3,676,420.
- Pearce, Douglas Henry, to Access Equipment Limited. Scaffolding, 3,697,032, 10-10-72, Cl. 248-188.400.
- Pearce, Edwin S.: *See—*
Kershaw, John Knox; and Pearce, Edwin S., 3,649,984.
- Pearce, Geoffrey Downing: *See—*
Phillips, Cyril Howard; Brunton, James Charles; and Pearce, Geoffrey Downing, 3,676,185.
- Pearce, Godfrey R.; and Breeden, William J., to Mallory, P. R., & Co., Inc. Capacitor having a sealing means engaging the terminals, 3,686,536, 8-22-72, Cl. 317-230.000.
- Pearce, James Gordon, to Stromberg-Carlson Corporation. Reverting call arrangement, 3,673,337, 6-27-72, Cl. 179-17.00d.
- Pearce, Joseph L., Jr., to Otis Engineering Corporation. Well tools, 3,646,996, 3-7-72, Cl. 166-212.
- Pearce, Larry N., to Deering Milliken Research Corporation. Yarn bulking methods, 3,702,492, 11-14-72, Cl. 28-72.0hr.
- Pearce, Lucia C.: *See—*
Bosley, Denis V.; and Pearce, Lucia C., 3,646,592.
- Pearce, Richard A., to Fasco Industries, Inc. Electric artificial fireplace, 3,636,307, 1-18-72, Cl. 219-370.
- Pearce, Ronald A., to Coors Container Company, mesne. Testing device for testing edges of cylinders for defects, 3,672,208, 6-27-72, Cl. 73-49.200.
- Pearce, Shairyl I.: *See—*
Audiffred, Sidney J.; Johnson, Lowell E.; and Pearce, Shairyl I., 3,673,799.
- Pearce, Woodrow W. Illuminated magic wand, 3,707,055, 12-26-72, Cl. 46-228.000.
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- Pearl, David R.: *See—*
Gerber, Heinz Joseph; and Pearl, David R., 3,672,661.
- Pearl, David R., to Gerber Garment Technology. Cutter blade and guide construction for a sheet material cutter with a reciprocating cantilevered blade, 3,682,034, 8-8-72, Cl. 83-635.000.
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Gerber, Heinz Joseph; and Pearl, David Raymond, 3,677,123.
- Pearl, Wesley L., to General Electric Company. Corrosion inhibition, 3,663,725, 5-16-72, Cl. 176-38.
- Pearlman, Marshall B.: *See—*
Chang, Richard S.; Cutler, Stanley; La Branche, Harvey W.; Pearlman, Marshall B.; Ryan, John W.; and Toy, Raymond M., 3,647,927.
- Pearlman, Robert I.: *See—*
Granier, Louis W., 3,671,627.
- Pearlstein, Fred; and D'Ambrosio, Margaret R., to United States of America, Army. Heat resistant chromate conversion coatings, 3,687,740, 8-29-72, Cl. 148-6.200.
- Pearne, Florentin J.: *See—*
Pearne, Frank S.; and Pearne, Florentin J., 3,656,634.
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- Voight, Richard W.; and Hoffenberg, David S., 3,652,232.
- Pearsall, Ralph E.: *See—*
- Chandler, Edmond A.; Pearsall, Ralph E.; Winslow, Kenelm W.; and Yarrison, Walter W., 3,658,632.
- Pearsall, Ralph E., to USM Corporation. Tables for stacking flexible work. 3,659,727, 5-2-72, Cl. 214-6.
- Pearson, Alan: *See—*
- Mac Zura, George; and Pearson, Alan, 3,655,339.
- Pearson, Alan; and Marhanka, John E., to Aluminum Company of America. Producing sintered alumina fibers from an alumina slip of very high solids content. 3,705,223, 12-5-72, Cl. 264-56.000.
- Pearson, Alma: *See—*
- Pearson, Reinhold A., 3,700,090.
- Pearson, Anthony: *See—*
- Pearson, William Michael; and Pearson, Anthony, 3,674,593.
- Pearson, Arthur J.: *See—*
- Ullman, William L.; Baxter James C.; Pearson, Arthur J.; Davis, Robert E.; and Hullhorst, William B., 3,642,034.
- Pearson, Ben, Manufacturing Company: *See—*
- Bandemer, Martin E., 3,651,624.
- Pearson, Charles J.: *See—*
- Chung, Daniel A.; and Pearson, Charles J., 3,677,869.
- Pearson, Charles J.; Robinson, Keith D.; and Sassaman, William O., to Goodyear Tire & Rubber Company. The Bumper structure having a light fixture associated therewith. 3,639,748, 2-1-72, Cl. 240-7.1.
- Pearson, Clyde C., Jr. Building structure with elevators. 3,659,387, 5-2-72, Cl. 52-30.
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- Brookman, Robert S.; Grib, Stephen; and Pearson, Dale S., 3,661,618.
- Pearson, David L.; and Fehring, Bernard G., to Shell Oil Company. Process for the production of dimethyl (1-methyl-2-(methylcarbamoyl) vinyl phosphate. 3,632,694, 1-4-72, Cl. 260-969.
- Pearson, David P.: *See—*
- Cobb, Raymond L.; and Pearson, David P., 3,658,667.
- Pearson, Derek Gordon, to Associated Lead Manufacturers Limited. Dust-free lead stabilizer for synthetic resins. 3,668,144, 6-6-72, Cl. 252-400.000.
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- Judge, Robert L.; and Pearson, Eugene S., 3,676,832.
- Pearson, George H., to Slumberland Group Limited. Spring interiors for mattresses, seats and the like. 3,685,062, 8-22-72, Cl. 5-269.000.
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- Pearson, Howard: *See—*
- Vassil, Theo N.; and Pearson, Howard, 3,634,839.
- Pearson, John B.: *See—*
- Keinanen, Henry J.; and Pearson, John B., 3,688,535.
- Pearson, John R.; and Johnson, Glenn J., to Mellquist Mfg. Co., Inc. Actuator for bucky diaphragms. 3,660,660, 5-2-72, Cl. 250-62.
- Pearson, Johnnie Prine: *See—*
- McGinley, William L.; and Pearson, Johnnie Prine, 3,693,452.
- Pearson, Kenneth William: *See—*
- Dodman, David; Pearson, Kenneth William; and Woolley, John Mathers, 3,700,605.
- Pearson, Lee E.; and Clark, Jeri O., to Owens-Corning Fiberglas Corporation. Retaining wall for fluids and method for production. 3,661,294, 5-9-72, Cl. 220-83.
- Pearson, Lee E., to Owens-Corning Fiberglas Corporation. High strength strap and method of making it. 3,668,740, 6-13-72, Cl. 24-16.0pb.
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- Pearson, Melvin A.: *See—*
- Schlemmer, Alfred H.; and Pearson, Melvin A., 3,633,333.
- Pearson, Paul O.: *See—*
- Epina, August P.; and Pearson, Paul O., 3,703,997.
- Herger, Zoltan L.; and Pearson, Paul O., 3,645,464.
- Pearson, R. A., Company: *See—*
- Pearson, Reinhold A., 3,680,278.
- Pearson, Reinhold A., 3,700,090.
- Pearson, Raymond H., to Whitehall Electronics Corporation. Pressure sensitive hydrophone. 3,660,809, 5-2-72, Cl. 340-8.00s.
- Pearson, Reinhold A., to Pearson, R. A., Company. Method of placing partitions between grouped articles. 3,680,278, 8-1-72, Cl. 53-26.000.
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- Pearson, Ronald K. Stacked sheet filter assembly. 3,648,843, 3-14-72, Cl. 210-443.
- Pearson, Samuel J.: *See—*
- Freeman, Donald J.; Fulkerson, Ambrose A.; Grall, Kenneth J.; and Pearson, Samuel J., 3,695,949.
- Pearson, Samuel Reader, to Texas Instruments, Incorporated. Resettable timing circuit. 3,673,439, 6-27-72, Cl. 307-293.000.
- Pearson, Samuel Reader, to Texas Instruments, Incorporated. Automatic data retrieval and display system. 3,704,451, 11-28-72, Cl. 340-172.500.
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- Pearson, William S., to Cypro Incorporated. Comminuting apparatus. 3,700,177, 10-24-72, Cl. 241-36.000.
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- Ritter, Ralph Kenneth; Pease, Charles C.; and Fay, Elliott J., 3,641,305.
- Pease, Donald L.: *See—*
- Baller, Ernst O.; Crandell, Melvin G.; Pease, Donald L.; and Witinski, Francis D., 3,674,363.
- Pease, James F. Electrical heating element and fitting assembly. 3,657,519, 4-18-72, Cl. 219-536.
- Pease, Robert A., to Teledyne, Inc. Current compensator circuit. 3,668,541, 6-6-72, Cl. 330-23.000.
- Peasley, Curtiss M. Combined brush depth regulator and scraper. 3,641,615, 2-15-72, Cl. 15-257.05.
- Peat, Robert W., to Butler Manufacturing Company. Mobile feed mixer and bunk loader. 3,706,442, 12-19-72, Cl. 259-41.000.
- Peate, Norman T. Bicycle fork extension. 3,643,974, 2-22-72, Cl. 280-278.
- Peay, Robert L.: *See—*
- Jacobs, Paul H.; Peay, Robert L.; and Wisherd, David S., 3,662,294.
- Pebenito, Amabel A.: *See—*
- Young, Virgil F.; and Pebenito, Amabel A., 3,646,323.
- Pebler, Alfred H.: *See—*
- Yannopoulos, Lymprios N.; and Pebler, Alfred H., 3,707,643.
- PEBRA GmbH Paul Braun: *See—*
- Fritsch, Walter; Hetzinger, Erich; and Worner, Karl, 3,705,508.
- Lipinski, Reinhard, 3,662,149.
- Peccerill, Donald: *See—*
- Rowe, Robert L.; and Peccerill, Donald, 3,640,657.
- Pecchio, Rafael. Anti-fouling sinker assembly for fishing lines. 3,683,542, 8-15-72, Cl. 43-44.970.
- Pecci, Angelo A. Electromagnetic motor with plural reciprocating members. 3,676,719, 7-11-72, Cl. 310-24.000.
- Pecci, Giancarlo: *See—*
- Girotti, Pierleona; Floris, Telemaco; and Pecci, Giancarlo, 3,642,612.
- Peccoud, Michel: *See—*
- Bost, Jose; Hollard, Daniel; Peccoud, Michel; and Suscillon, Michel, 3,644,738.
- Pech, David J., to Manitowoc Engineering Company. Boom sheave assembly. 3,680,840, 8-1-72, Cl. 254-192.000.
- Pech, Hans Peter, to Schloemann Aktiengesellschaft. Reel for rod or wire. 3,690,631, 9-12-72, Cl. 266-6.00r.
- Peche, Gerhard: *See—*
- Bahr, Alex; and Peche, Gerhard, 3,676,743.
- Bahr, Alex; and Peche, Gerhard, 3,691,428.
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- Batcho, Andrew David; Berger, Julius; Furlenmeier, Andre; Keller, Oscar; Pecherer, Benjamin; Schocher, Arno Johannes; Spiegelberg, Hans; and Vaterlaus, Bruno Peter, 3,706,729.
- Brossi, Arnold; and Pecherer, Benjamin, 3,654,343.
- Pechin, William H.; Bradley, Ronnie A.; and Sease, John D., to United States of America, Atomic Energy Commission. Nuclear

- fuel having minimum-gas-release properties. 3,689,428, 9-5-72, Cl. 252-301.10r.
- Pechiney Compagnie de Produits Chimiques et Electrometallurgiques: *See—*
- Chambran, Jacques, 3,633,652.
- Chretien, Roland; and Richaud, Henri, 3,658,665.
- Pechiney Ugine Kuhlmann: *See—*
- Kazeef, Michel G., 3,682,235.
- Pechiney-Progil: *See—*
- Aronica, Claude S.; and Moulin, Louis, 3,671,632.
- Demosay, Daniel; Pilon, Daniel; and Ducret, Jacques, 3,669,975.
- Demozay, Daniel; Caffiero, Rodolphe; and Pilon, Daniel, 3,639,619.
- Pilon, Daniel; and Ducret, Jacques, 3,702,332.
- Pechiney-Saint Gobain: *See—*
- Raoul, Pierre, 3,655,660.
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- Pechthold, Heinz, to Etablissement Bonatex. Apparatus for the automatic continuous manufacture of filled and closed containers. 3,694,126, 9-26-72, Cl. 425-326.000.
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- Peck, Arland A.: *See—*
- Appleby, Paul E.; Folden, Denver C.; and Peck, Arland A., 3,676,261.
- Folden, Denver C.; and Peck, Arland A., 3,687,779.
- Peck, David W.; and Gentry, Robert R., to Union Carbide Corporation. Method for producing esters of polycyclic compounds. 3,641,115, 2-8-72, Cl. 260-475.
- Peck, Donald E.: *See—*
- Hayes, John R.; Eckart, Francis H.; and Peck, Donald E., 3,670,624.
- Peck, Donald W., to Oaks Power Corporation. Dual voltage power system for use with vehicle alternators and the like. 3,668,514, 6-6-72, Cl. 322-28.000.
- Peck, James G., Jr., to PPG Industries, Inc. Method of operating a mercury-amalgam cathode electrolytic cell. 3,691,036, 9-12-72, Cl. 204-99.000.
- Peck, Lawrence J. Sewage treatment system. 3,638,793, 2-1-72, Cl. 210-73.
- Peck, Merrill V.; Thompson, Edwin P.; Thompson, William F.; and Peck, Robert M., to Frank Edge Saw Manufacturing Company. Machine for cutting contour. 3,685,377, 8-22-72, Cl. 83-201.000.
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- Herbstman, Sheldon; and Peck, Reese A., 3,684,685.
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- Patel, Jitendra A.; Herbstman, Sheldon; Peck, Reese A.; and Wilson, Raymond F., 3,668,117.
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- Wilson, Raymond F.; Peck, Reese A.; and Guptill, Frank E., Jr., 3,671,420.
- Peck, Reese A.; and Wilson, Raymond F., to Texaco Inc. Process for increasing the yield of lower boiling hydrocarbons. 3,671,421, 6-20-72, Cl. 208-68.000.
- Peck, Richard O., to Amsted Industries Incorporated. Top block lifting with back block loading control. 3,675,889, 7-11-72, Cl. 249-82.000.
- Peck, Richard Otis, to Amsted Industries Incorporated. Mold with tie rod assembly for slotted block. 3,689,023, 9-5-72, Cl. 249-82.000.
- Peck, Robert M.: *See—*
- Peck, Merrill V.; Thompson, Edwin P.; Thompson, William F.; and Peck, Robert M., 3,685,377.
- Peck, Ronald G., to Square D Company Canada Limited. Electric circuit breaker with arc current shunting blade stacked on contact blade. 3,683,140, 8-8-72, Cl. 200-146.00r.
- Peck, Thomas W., to Powers Manufacturing, Inc. Centrifugal filter. 3,646,724, 3-7-72, Cl. 55-274.
- Peck, Walter R.: *See—*
- Stencel, Fred B.; and Peck, Walter R., 3,648,955.
- Peck, William G.: *See—*
- Hall, Thomas O., Jr.; and Peck, William G., 3,702,922.
- Pecka, Jan: *See—*
- Marek, Miroslav; Pecka, Jan; Chmelir, Miroslav; and Roosova, Milena, 3,639,661.
- Peckels, Kenneth T.: *See—*
- Lerew, Wilford J.; and Peckels, Kenneth T., 3,698,675.
- Peckham, Augustus W. Slidable snap fastener device for supporting drapes or curtains. 3,688,341, 9-5-72, Cl. 16-93.00d.
- Pecksen, Otto: *See—*
- Madlener, Paul; and Pecksen, Otto, 3,703,867.
- Pecorari, John G.; and Tamkin, Michael S., to Zenith Radio Corporation. Final test arrangement for color cathode-ray tube. 3,654,548, 4-4-72, Cl. 324-20.
- Pecorella, James. Multi-purpose carpet seam joining tool. 3,673,621, 7-4-72, Cl. 7-8.000.
- Pecsi, Louis E.: *See—*
- Ohntrup, Frederick F.; and Pecsi, Louis E., 3,672,470.
- Pecze, Andras; Suto, Laszlo; and Banoczy, Zoltan, to Szerszám-gépipari Művek. Saw sharpener, particularly to sharpen jump saws. 3,651,715, 3-28-72, Cl. 76-37.
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- Peddinghaus, Carl Ullrich. Bending machine. 3,670,541, 6-20-72, Cl. 72-8.000.
- Peddinghaus, Carl Ullrich. Load-bearing spring leg. 3,684,269, 8-15-72, Cl. 267-64.000.
- Peddinghaus, Paul Ferd.: *See—*
- Jagob, Karl, 3,672,660.
- Peddinghaus, Paul Ferd, Jr., 3,661,002.
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- Pedersen, Arne Bybjerg, to Bristol-Myers Company. Hair roller containing temperature indicator. 3,665,938, 5-30-72, Cl. 132-33.00r.
- Pedersen, Carl. Measuring instrument and reading device assembly. 3,650,599, 3-21-72, Cl. 350-113.
- Pedersen, Charles John, to Du Pont de Nemours, E. I., and Company. Complexes of polyether compounds and ionic compounds. 3,686,225, 8-22-72, Cl. 260-340.300.
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- Pedersen, Harry, to Gleason Works, The. Self-cleaning chuck. 3,674,280, 7-4-72, Cl. 279-2.000.
- Pedersen, James M. Controllable pitch propeller. 3,690,788, 9-12-72, Cl. 416-157.000.
- Pedersen, Johannes Sigurd, to Aarhus Metalemballage Industri. Method for producing cases having rounded sides and being open at both ends. 3,693,398, 9-26-72, Cl. 72-368.000.
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- Pedersen, Kristian Stausholm, to Danfoss A/S. Method for running in metal components. 3,664,886, 5-23-72, Cl. 148-6.15r.
- Pedersen, Niels E., to Johnson Service Company. Electric to fluidic transducer. 3,645,293, 2-29-72, Cl. 137-608.
- Pedersen, Norman E., to Panametrics, Inc. Signal processor. 3,696,417, 10-3-72, Cl. 343-7.700.
- Pedersen, Poul K.; Wagstaff, Robert A.; and Waldrop, Thomas W., to Sperry Rand Corporation. Reverse drive for a forage harvester cutting reel. 3,678,772, 7-25-72, Cl. 74-220.000.
- Pederson, Arthur M., to Battelle Development Corporation, mesne. Apparatus for temperature measurement. 3,675,484, 7-11-72, Cl. 73-362.0ar.
- Pederson, Donald J.: *See—*
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- Pederson, Ronald E., to Du Pont of Canada, Limited. Apparatus for sealing and cutting layers of thermoplastic film. 3,692,613, 9-19-72, Cl. 156-498.000.
- Pederson, Wellington Edward: *See—*
- Bell, Barry Bernard; and Pederson, Wellington Edward, 3,653,941.
- Pedigo, Joel B.: *See—*
- Frampton, Orville D.; Pedigo, Joel B.; and Lecher, Hans Z., 3,673,251.
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- Pedigo, Richard A. Grass-clippings pelletizer for lawnmowers. 3,664,097, 5-23-72, Cl. 56-1.
- Pedinoff, Melvin E.: *See—*
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- Pedley, Dianne, to Maidenform Inc. Unitary brassiere and slip combination. 3,677,252, 7-18-72, Cl. 128-454.000.
- Pedley, John David, to Hopkins & Buckland Limited. Safety rails and the like. 3,651,853, 3-28-72, Cl. 160-216.

- Pedrani, Giulio, to Fiat Societa per Azioni. Air conditioning device for motor vehicles. 3,683,783, 8-15-72, Cl. 98-2.070.
- Pedraza, Rafael De Jesus. Laminated pallet and method of making same. 3,684,632, 8-15-72, Cl. 161-41.000.
- Pedrazzoli, Andrea; and Dall'Asta, Leone, to Societe d'Etudes de Recherches et d'Applications Scientifiques et Medicales E.R.A.S.M.E. 1-(Adamantylemethoxy)-2-hydroxy-3-substituted amino propanes and acid addition salts thereof. 3,663,617, 5-16-72, Cl. 260-63.
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- Karrer, Fridrich Wilhelm Johann; and Pedretti, Alberto, 3,631,691.
- Pedrotti, Donald G.: *See—*
- Hugle, William B.; Pedrotti, Donald G.; and Perrine, William F., 3,645,230.
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- Peebles, Joseph M., to Pillsbury Company, The. Apparatus for heating grain. 3,669,363, 6-13-72, Cl. 241-8.000.
- Peek, Ellis, Jr. Fruit harvester. 3,698,579, 10-17-72, Cl. 214-83.100.
- Peck, Henry L.: *See—*
- Armitage, Charles H.; Peck, Henry L.; and Pflanz, Herbert M., 3,641,293.
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- Peck, Henry L., to Allis-Chalmers Manufacturing Company. Circuit breaker with hydraulic operating mechanism for vacuum interrupter. 3,674,955, 7-4-72, Cl. 200-82.000.
- Peckema, Richard M.: *See—*
- Hart, Burt E.; and Peckema, Richard M., 3,652,902.
- Peel, Eric: *See—*
- Jones, William Dyfrig; and Peel, Eric, 3,679,194.
- Peel, Richard V.; and Phillips, Billie W., to Marquardt Industrial Products Co. Train length measurement system. 3,641,338, 2-8-72, Cl. 246-1.
- Peel, Robert; and Northup, Francis B. Yarn covering apparatus. 3,698,173, 10-17-72, Cl. 57-18.000.
- Peelle, Jonathan W.: *See—*
- Campbell, Theodore A.; Stebbins, Marlin R.; and Peelle, Jonathan W., 3,656,376.
- Peep, Mart; and Flower, Ronald J., to United States of America, Navy. Water wave follower. 3,656,342, 4-18-72, Cl. 73-170.
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- van den Ouweland, Godefridus Antonius Maria; and Peer, Hendricus Gerardus, 3,651,097.
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- Van Den Ouweland, Godefridus Antonius Maria; and Peer, Henricus Gerardus, 3,697,295.
- Peeri, Shlomo: *See—*
- Huppenthal, George Alfred; and Peeri, Shlomo, 3,707,102.
- Peerless Chain Company: *See—*
- Bambenek, Joseph B., 3,672,621.
- Peerless Industries, Inc.: *See—*
- Bloom, Stanley L., 3,682,503.
- Campbell, W. Wayne, 3,638,269.
- Peerless Mfg. Co.: *See—*
- Davis, Leo W.; Lackey, Marion D.; Ross, John Reuben; and Trenary, Bryant, 3,704,040.
- Petelski, Nick, 3,664,529.
- Peerless of America, Incorporated: *See—*
- O'Connor, Joseph M., 3,692,105.
- Peerless Trailer and Truck Service, Inc.: *See—*
- Van Raden, Fredrick F., 3,648,791.
- Peery, Walter E., to Eureka Carlisle Company. Web winding machine. 3,645,465, 2-29-72, Cl. 242-72.1.
- Peery, Walter E. Frictional torque transferring apparatus with a liquid mercury cooling system. 3,695,407, 10-3-72, Cl. 192-113.00b.
- Peeso, James B., Jr., to American Cyanamid Company. Compositions and processes for acrylonitrile polymer spinning solutions. 3,632,541, 1-4-72, Cl. 260-29.6.
- Peeso, James Bruce, Jr.: *See—*
- Murfit, Donald; and Peeso, James Bruce, Jr., 3,687,413.
- Peet, James, 1/2 to West Bridgford Machine Co., Limited. Take down apparatus for circular seamless hose knitting machines. 3,668,900, 6-13-72, Cl. 66-149.
- Peetermans, Julien: *See—*
- Huygelen, Constant; and Peetermans, Julien, 3,686,394.
- Peeters, Hogo Karel: *See—*
- Laridon, Urbain Leopold; Delzenne, Gerard Albert; Poot, Albert Lucien; and Peeters, Hogo Karel, 3,682,642.
- Peeters, Hogo Karel: *See—*
- Laridon, Urbain Leopold; Delzenne, Gerard Albert; and Peeters, Hogo Karel, 3,661,573.
- Peets, Robert S., to Singer Company, The. Carrying case for sewing machines. 3,680,939, 8-1-72, Cl. 312-208.000.
- Peetz, Hans Dieter; and Lurssen, Hermann, to Compagnie de Saint-Gobain. Electric thermal window with an adjustable terminal structure. 3,634,654, 1-11-72, Cl. 219-522.
- Pefferman, William C., to PPG Industries, Inc. Treatment of titanium tetrachloride dryer residue. 3,696,519, 10-10-72, Cl. 34-9.000.
- Pegert, Walter Emil: *See—*
- Hansen, Arne Sven; and Pegert, Walter Emil, 3,650,587.
- Pegg, Frank Raymond. Bulk display self service bin unit. 3,650,384, 3-21-72, Cl. 206-45.34.
- Pegg, Samuel, & Son, Limited: *See—*
- Furness, Will, 3,692,464.
- Pegless Cribbage Board Company: *See—*
- MacKenzie, John D.; and Klemm, Edwin O., 3,651,313.
- Pegram, John B.: *See—*
- Atchley, Raymond D.; Pegram, John B.; and Dixon, Kenneth K., 3,683,849.
- Pegrassi, Lorenzo: *See—*
- Bernardi, Luigi; Coda, Severina; Suchowsky, Giselbert Karl; and Pegrassi, Lorenzo, 3,658,803.
- Pehrsson, Anders Lennart; and Andersson, Sven-Ola, to Aktiebolaget Karlstads Mekaniska Werkstad. Hollow blade for propellers and method of making it. 3,647,318, 3-7-72, Cl. 416-233.
- Pei, Yu Kun; and Veres, Frank, to Owens-Illinois, Inc. Method for making and assembling sealed tubular bodies. 3,666,583, 5-30-72, Cl. 156-82.000.
- Peiffer, Harold E.; and Kohl, Ralph A., to Eastman Kodak Company. Fluid dispensing apparatus. 3,668,996, 6-13-72, Cl. 95-89.00r.
- Peiffer, Howard Richard: *See—*
- Jacobs, Wayne John; Fritz, Robert William; and Peiffer, Howard Richard, 3,697,389.
- Peil, Archie W.: *See—*
- Bishop, Thomas R.; and Peil, Archie W., 3,692,316.
- Slator, Damon T.; and Peil, Archie W., 3,675,719.
- Slator, Damon T.; Bishop, Thomas R.; and Peil, Archie W., 3,689,112.
- Slator, Damon T.; and Peil, Archie W., 3,690,381.
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- Peil, Le Roy E. Apparatus for baggage inspection. 3,678,278, 7-18-72, Cl. 250-108.00r.
- Peil, William, to General Electric Company. Signal processor for reception of amplitude or frequency modulated signals. 3,665,507, 5-23-72, Cl. 325-315.000.
- Peil, William; Daino, Peter R.; and Sauter, Lon J., to General Electric Company. Push-button switch assembly. 3,705,367, 12-5-72, Cl. 335-186.000.
- Peille, Jean Marie Raymond Albert. Process for continuous production of composite plates whose faces can be given a profile or a fixed impression. 3,689,348, 9-5-72, Cl. 156-292.000.
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- Kienast, Gerhard; Peilstocker, Gunter; Volz, Hans G.; and Wiegrefe, Wolfgang, 3,663,494.
- Metzner, Wolfgang; and Peilstocker, Gunter, 3,634,320.
- Schirmer, Hermann; Peilstocker, Gunter; and Vernalcken, Hugo, 3,663,471.
- Peinado, Marcel: *See—*
- Bonavent, Gerard; Huvey, Michel; and Peinado, Marcel, 3,680,729.
- Peine, Hans Georg: *See—*
- Falkenstein, Georg; Peine, Hans Georg; Doerfel, Helmut; Raff, Paul; and Schuster, Ludwig, 3,703,595.
- Peirce, Inez H. Cooking grill. 3,664,256, 5-23-72, Cl. 99-425.000.
- Peirce, Patricia Marie. Cake tier separator. 3,690,610, 9-12-72, Cl. 248-159.000.
- Feisner, Israel D.; Stol, George H.; and Gotcher, Eugene D., to Whitehead & Kales Company. Vehicle tie-down device. 3,673,969, 7-4-72, Cl. 105-369.00a.
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- Pekau, Dietlind, to Bendix Corporation, The. Apparatus for constructing a reduced information content hologram. 3,643,017, 2-15-72, Cl. 178-6.5.
- Pekko, John A., to Avery Products Corporation. Tamper proof label construction. 3,631,617, 1-4-72, Cl. 40-2.2.
- Pekor, Charles B., to Pekor Iron Works. Apparatus for centrifugally forming hollow articles. 3,692,457, 9-19-72, Cl. 425-435.000.
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- Pekor, Charles B., 3,692,457.
- Pekrul, Ewald, to Westinghouse Bremsen- und Apparatebau G.m.b.H. Variable load relay valve with Belleville spring type lock for exhaust valve seat positioned according to load. 3,671,087, 6-20-72, Cl. 303-60.000.
- Pekrul, Roger K., to Oklahoma Publishing Company, The. Rotary press preprinted web registering device. 3,648,911, 3-14-72, Cl. 226-30.
- Pelam Inc.: *See—*
- McCormick, James B., 3,683,911.
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- Pelavin, Milton H.; Koszyn, Allan I.; and Heier, Earl, to Technicon Instruments Corporation. Method and apparatus for automatic

- baseline and standard calibration of automatic, multi-channel sequentially operable fluid sample supply, treatment and analysis cans. 3,634,868, 1-11-72, Cl. 235-151.3.
- Pelenc, Yves: *See—*
- Charmel, Pierre; Jaillet, Jean; Pelenc, Yves; and Voulat, Maurice, 3,657,495.
- Pelenc, Yves, to Merlin Gerin Societe Anonyme. Two slot linear induction motor. 3,679,952, 7-25-72, Cl. 318-135.000.
- Pelensky, Walter J. Fretted ukrainian bandura. 3,635,116, 1-18-72, Cl. 84-291.
- Pelham, Joseph E.; and Osburn, Albert Ray, to Thiokol Chemical Corporation. Demand, solid-propellant gas generator. 3,701,256, 10-31-72, Cl. 60-39.470.
- Pelikan, Hans Dieter; and Funke, Hans Joachim, to Feldmuhle Aktiengesellschaft. Method of conglomerating fibers. 3,645,813, 2-29-72, Cl. 156-62.4.
- Pelino, William M.; Moenich, Raymond A.; McLean, Benjamin F.; and Hamblin, James C., to Railtron Corporation. Vehicle fault indicating apparatus. 3,662,168, 5-9-72, Cl. 246-169.
- Pelissier, Yves: *See—*
- Houot, Jean-Jacques; Pelissier, Yves; and Durand, Jean-Francois, 3,645,565.
- Pelizzoni, Winton J., to Mack Trucks, Inc. Hydraulic valve lifter. 3,650,251, 3-21-72, Cl. 123-90.57.
- Pelizzoni, Winton J., to Mack Trucks, Inc. Variable venturi carburetors. 3,659,572, 5-2-72, Cl. 123-119.000.
- Pelka, Horst, to Siemens Aktiengesellschaft. Overload protection circuit. 3,638,102, 1-25-72, Cl. 323-9.
- Pelka, Walter: *See—*
- Frenyo, Pal; Hafer, Karl-Heinz; Karkutt, Reimund; and Pelka, Walter, 3,675,971.
- Pell, Lawrence W.: *See—*
- Picard, Jean P.; Dunigan, Thomas E.; and Pell, Lawrence W., 3,667,387.
- Picard, Jean P.; Seals, William O.; and Pell, Lawrence W., 3,696,748.
- Voigt, H. William, Jr.; Pell, Lawrence W.; and Picard, Jean P., 3,706,609.
- Pellaton, Jean: *See—*
- Stalder, Herbert; and Pellaton, Jean, 3,664,110.
- Pelle, Jozsef; and Varga, Laszlo, to Heves Megyei Beruhazasi Valalat. Formwork assembly. 3,689,018, 9-5-72, Cl. 249-13.000.
- Pellechia, Vincent J.: *See—*
- Sheppard, John E.; and Pellechia, Vincent J., 3,667,925.
- Pellegrini, Armando Paulo. Process for the production of dry molasses from sugar-cane or beetroot molasses. 3,698,911, 10-17-72, Cl. 99-6.000.
- Pellegrini, Giovanni: *See—*
- Vitali, Tullio; Scrivani, Pietro; Ponci, Riccardo; Pellegrini, Giovanni; Gialdi, Franco; and Arsura, Emilio, 3,657,263.
- Pellegrini, John P., Jr.: *See—*
- McGuire, Robert J.; Mitchell, Edward; and Pellegrini, John P., Jr., 3,696,051.
- Pellegrini, John P., Jr.; and Spolners, Ilgvars J., to Gulf Research & Development Company. Insecticidal composition containing a triorganotin derivative of a cyclic compound. 3,632,769, 1-4-72, Cl. 424-288.
- Pellerano, Cesare Enrico Guiseppe: *See—*
- Actor, Philip Paul; and Pellerano, Cesare Enrico Guiseppe, 3,646,019.
- Pellet, William, to United States of America, Army. Spin switch. 3,705,965, 12-12-72, Cl. 200-61.530.
- Pelletier, Marc, to Ehenestric Pelletier Enr. Apparatus to displace a snowmobile. 3,690,481, 9-12-72, Cl. 214-85.000.
- Pelletier, Robert A., to Mechtron International Corporation. Self-propelled conveyor apparatus. 3,687,276, 8-29-72, Cl. 198-233.000.
- Pelletier, Ronald R.: *See—*
- Saunders, Frank L.; and Pelletier, Ronald R., 3,642,676.
- Pelletiere, Thomas James, to Illinois Tool Works Inc. Spring hinge device. 3,702,491, 11-14-72, Cl. 16-189.000.
- Pelli, Pierre, to L'Oreal. Nipple for baby bottle. 3,650,271, 3-21-72, Cl. 128-252.
- Pellicano, Joseph: *See—*
- Rovin, Herman; Cobb, James W.; Opuszenski, Theodore; Willard, Richard H.; Rigat, Raymond, Jr.; and Pellicano, Joseph, 3,670,675.
- Pellini, William S.: *See—*
- Huber, Ralph W.; Pellini, William S.; and Goode, Robert J., 3,645,803.
- Pellizzetti, Italo: *See—*
- Villini, Gregorio, 3,653,795.
- Pellizzetti, Italo. Refrigerator system. 3,633,380, 1-11-72, Cl. 62-217.
- Pellizzetti, Italo. Compressors for refrigeration systems. 3,656,874, 4-18-72, Cl. 417-415.
- Pellkofer, Dieter, to Sulzer Brothers Limited. Magnetic control of arc in strip plating. 3,659,075, 4-25-72, Cl. 219-76.
- Pellman, Robert C.: *See—*
- Taylor, John H.; and Pellman, Robert C., 3,667,790.
- Pellon, Joseph Jacinto: *See—*
- Schmidt, Richard Frederick; and Pellon, Joseph Jacinto, 3,660,351.
- Pelluet, Jacques Guy, to Societe Anonyme: Les Produits Organiques du Santerre Orsan. Method for extracting and separating enzymes. 3,705,085, 12-5-72, Cl. 195-66.00r.
- Pelofsky, Arnold H.: *See—*
- Herbert, Hugh P.; and Pelofsky, Arnold H., 3,706,648.
- Pelorex Corporation: *See—*
- Curtis, George L.; Riesenberger, James H.; and Kelly, Ralph E., 3,706,393.
- Hunt, Robert A.; and Rait, Joseph M., 3,637,302.
- Peloshcek, Hans Peter; and Perduijn, David Jacob, to U.S. Philips Corporation. Method of manufacturing a sintered oxidic ferromagnetic body. 3,671,436, 6-20-72, Cl. 252-62.580.
- Pelosi, Stanford S., Jr.: *See—*
- Alaimo, Robert J.; and Pelosi, Stanford S., Jr., 3,696,114.
- Alaimo, Robert J.; and Pelosi, Stanford S., Jr., 3,706,759.
- Pelousek, Herbert: *See—*
- Schnegg, Robert; Pelousek, Herbert; Dippolhofer, Robert; Wiegrefe, Wolfgang; Voelz, Hans-Georg; and Kienast, Gerhard, 3,674,747.
- Pelozo, Casimir C., to Ashland Oil, Inc. Method for producing shaped plastic articles. 3,666,697, 5-30-72, Cl. 260-22.0cb.
- Pelster, Arthur F.; and Modglin, Donald D., to Kentucky Fried Chicken Corporation, mesne. Deep fat frying equipment. 3,677,174, 7-18-72, Cl. 99-417.000.
- Pelta, Edmond R., to Autoscans, Inc. Equipment for testing the brakes of automobiles. 3,633,412, 1-11-72, Cl. 73-126.
- Pelta, Edmond R.; and Gold, Kenneth Stewart, to Autoscans, Inc. System for displaying the characteristics of ignition signals in an internal combustion engine. 3,638,107, 1-25-72, Cl. 324-15.
- Pelta, Edmond R.; and Gold, Kenneth Stewart, to Autoscans, Inc. System for determining the ignition advance in the distribution of an engine. 3,665,294, 5-23-72, Cl. 324-16.
- Pelte, Richard: *See—*
- Mayr, Helmut; Pelte, Richard; Hubert, Theo; and Strasser, Helmut, 3,676,759.
- Peltola, Waino; and Braski, Ervin W. Timber harvester. 3,683,979, 8-15-72, Cl. 143-32.00n.
- Pelton, Dean E., to Sylvania Electric Products, Inc. Process for preparing phosphors. 3,691,088, 9-12-72, Cl. 252-301.60s.
- Peltrct, Pierre Henri, to C.A.V. Limited. Governor mechanisms. 3,699,816, 10-24-72, Cl. 73-526.000.
- Peltzer, Douglas L., to Fairchild Camera and Instrument Corporation. Method of fabricating integrated circuits with oxidized isolation and the resulting structure. 3,648,125, 3-7-72, Cl. 317-235.
- Peluso, Raymond F.; and David, Richard F., to Martin-Marietta Corporation. High density packaging of electronic components in three-dimensional modules. 3,671,812, 6-20-72, Cl. 317-118.000.
- Pelz, Diethart: *See—*
- Eilhardt, Bernd; and Pelz, Diethart, 3,703,034.
- Matthieu, Paul; Leuchs, Ottmar; Glander, Fritz; Kuypers, Hubert; and Pelz, Diethart, 3,698,440.
- Pelz, Friedrich, to Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen-Kessel- und Waggonbau. Low-platform railway car bogie. 3,665,865, 5-30-72, Cl. 105-183.000.
- Pelz, Otmar: *See—*
- Bergmeyer, Hans Ulrich; Haid, Erich; Nelboeck-Hochstetter, Michael; and Pelz, Otmar, 3,662,037.
- Pelz, Willibald: *See—*
- Marx, Paul; Heb, Ulrich; Otto, Rigobert; Puschel, Walter; and Pelz, Willibald, 3,632,345.
- Otto, Rigobert; Pankow, Gerrit; De Cat, Arthur Henri; Puschel, Walter; and Pelz, Willibald, 3,671,257.
- Vetter, Hans; Danhauser, Justus; Kabitzke, Karlheinz; Marx, Paul; Melzer, Arnfried; Pelz, Willibald; and Puschel, Walter, 3,705,035.
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- Pem-lms Inc.: *See—*
- Smith, Joseph F., 3,706,194.
- Pemberton, Donald L., to Reynolds Metals Company. Electrical bus bar construction and method of making same. 3,634,810, 1-11-72, Cl. 339-22.
- Pemberton, Paul E.: *See—*
- Luby, John J.; and Pemberton, Paul E., 3,640,332.
- Pemberton, Paul E.; and Luby, John J. Sectional fire door assembly. 3,685,567, 8-22-72, Cl. 160-8.000.
- Pemberton, Troy J.: *See—*
- Lane, Donald W.; and Pemberton, Troy J., 3,676,782.
- Pembroke, Richard W.: *See—*
- Ysbrand, Floyd R.; and Pembroke, Richard W., 3,684,147.
- Pemcor, Inc.: *See—*
- Kuhlow, Herbert F.; Novak, James F.; and Henley, John F., 3,637,938.
- Pemko Manufacturing Co.: *See—*
- deBruyn Kops, Paul F., Jr.; and Rivers, Victor J., 3,653,155.

- Rivers, Victor J., 3,703,788.
Pena, Joe C.: *See—*
Kastan, Howard; and Pena, Joe C., 3,695,779.
Penard, Michel: *See—*
Palencher, Jacques; and Penard, Michel, 3,705,351.
Penberthy, Walter L.: Bayless, Jack H.; and Ayers, Robert C., Jr., to Ezzo Production Research Company. Well insulation method. 3,664,425, 5-23-72, Cl. 166-303,000.
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Pence, Roy J., to University of California, The Regents of the. Apparatus for sensitive measurement and recording of physiological activity. 3,703,101, 11-21-72, Cl. 73-432,00r.
Pence, Samuel A., Jr., to Dow Chemical Company, The. Organo polymer cements with extended working time. 3,677,987, 7-18-72, Cl. 260-29,60m.
Penco, Sergio: *See—*
Arcamone, Federico; Cassinelli, Giuseppe; Penco, Sergio; and Tognoli, Luigi, 3,686,163.
Penczek, Edward S., to Stromberg-Carlson Corporation. Electrical contact structure for a switch reed comprising gold and palladium layers. 3,671,702, 6-20-72, Cl. 200-166,00c.
Pender, David R. Seat unit for ski lift apparatus. 3,679,258, 7-25-72, Cl. 297-195,000.
Pendergrass, Buford; Applequist, Quintin A.; and Snyder, Alan Howard, Jr., to Roberts Industries, Inc. Take-up apparatus. 3,664,717, 5-23-72, Cl. 308-15.
Penders, Edward F. Word forming game device. 3,640,531, 2-8-72, Cl. 273-1.
Pendill, William G. Building structures and method. 3,691,672, 9-19-72, Cl. 46-16,000.
Pendleton, Arthur C.: *See—*
Pendleton, Melvin D.; and Pendleton, Arthur C., 3,663,144.
Pendleton, John F.: *See—*
Schlott, Richard J.; Hoeg, Donald F.; and Pendleton, John F., 3,647,803.
Pendleton, John M. Flowable dunnage apparatus and method of packaging with flowable and compliant inflated dunnage material. 3,667,593, 6-6-72, Cl. 206-46.
Pendleton, Melvin D.; and Pendleton, Arthur C. Automatic pastry forming apparatus. 3,663,144, 5-16-72, Cl. 107-14.
Pendleton, Woodrow W.: *See—*
Glaser, Donald A.; Dutro, Lyle V.; and Pendleton, Woodrow W., 3,656,738.
Pendolino, Eugene F. Mining machine drum cutter. 3,695,725, 10-3-72, Cl. 299-80,000.
Penetred Corporation: *See—*
Felker, Paul J., 3,687,583.
Penfield, Scott R., Jr., to Combustion Engineering, Inc. Intergral economizer for U-tube generator. 3,706,301, 12-19-72, Cl. 122-32,000.
Penfold, Addison E., Jr., to Triple "A" Accessories. Engine exhaust header construction. 3,670,844, 6-20-72, Cl. 181-40,000.
Penfold, John, to Imperial Chemical Industries Limited. Phenolic foams. 3,639,303, 2-1-72, Cl. 260-2.5.
Pengilly, Brian W.: *See—*
Aylies, Sergeant E.; Hillhouse, Mial T.; Kyriakis, Alexander; and Pengilly, Brian W., 3,634,339.
Pengo Corporation: *See—*
Bennetti, John G., 3,667,559.
Penick & Ford Limited: *See—*
Brouillard, Robert E.; Coughlin, Leonard J.; and Winfrey, Vernon L., 3,672,922.
Hjermstad, Erling T.; and Rajtora, Otto J., 3,632,803.
Hjermstad, Erling T.; and Coughlin, Leonard J., 3,652,541.
Hjermstad, Erling T.; and Coughlin, Leonard J., 3,652,542.
Hjermstad, Erling T.; and Rajtora, Otto J., 3,706,730.
Penick & Ford Limited, *mesne*: *See—*
Rix, Charles E.; and Mysels, Karol J., 3,682,685.
Penick, Ib, to Simpro Corporation of America, *mesne*. Disposable camera. 3,650,194, 3-21-72, Cl. 95-61.
Penick, Robert A.: *See—*
Ballas, Joseph A.; and Penick, Robert A., 3,653,072.
Ballas, Joseph A.; and Penick, Robert A., 3,683,416.
Penird, Carl W.: *See—*
Miller, John J.; and Penird, Carl W., 3,692,379.
Penk, Chester S.: *See—*
Bare, Duward J.; and Penk, Chester S., 3,632,985.
Penkava, Jiri: *See—*
Kadera, Vaclav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemec, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, 3,647,312.
Penkowski, Lee J.: *See—*
Schieman, Robert G.; and Penkowski, Lee J., 3,683,264.
Penman, Melvin C. Fish cleaning and filleting device. 3,672,002, 6-27-72, Cl. 17-69.
Penn Controls, Inc.: *See—*
Emmons, Robert Eugene, 3,694,787.
Penn, Everett: *See—*
Presnick, Michael C.; Penn, Everett; and Piorek, John, 3,683,357.
Penn, Hyman B.: *See—*
Kesilman, Sol; Kravitz, Milton; and Penn, Hyman B., 3,675,598.
Penn, Lloyd D.: *See—*
Morrow, Robert S.; Penn, Lloyd D.; and Hays, Kenneth E., 3,707,671.
Penn Novelty Company, The, *mesne*: *See—*
Haigh, Thomas I., 3,657,060.
Penn, William H.: *See—*
Schaefer, Harold W.; and Penn, William H., 3,683,444.
Penn Yan Boats Incorporated: *See—*
Stuart, Robert B., 3,659,547.
Penn-Aquatic Industries, Inc.: *See—*
Orndorff, Brickley S., 3,631,545.
Pennace, John R.: *See—*
Bannister, William W.; Pennace, John R.; and Curby, William A., 3,684,733.
Pennachetti, John T.; and Boux, Joseph F., to Enercon International Limited. Process for the treatment of fly ash and product. 3,669,703, 6-13-72, Cl. 106-288,00b.
Pennel, Gerard J.; Prouvost, Gonzague J.; and Pruvost, Robert P., to Etablissements Pennel & Flipo. Tie for a pneumatic mattress. 3,683,431, 8-15-72, Cl. 5-350,000.
Pennell, Charles Ronald: *See—*
Hays, Robert Guy; Pennell, Charles Ronald; Reed, Edwin Emmett; and Volk, Charles Edward, 3,690,969.
Pennell, Ronald C.: *See—*
Ashton, Clark L.; Hays, Robert G.; and Pennell, Ronald C., 3,681,154.
Pennella, Filippo, to Phillips Petroleum Company. Alkyne conversion. 3,655,804, 4-11-72, Cl. 260-678.
Pennella, Paolo: *See—*
Cassinelli, Giuseppe; Cotta, Ernesto; Pennella, Paolo; and Faustini, Remo, 3,696,194.
Pennelle, Donald K.: *See—*
Friedman, Herman H.; and Pennelle, Donald K., 3,649,296.
Pennewis, Horst: *See—*
Markert, Gerhard; Pennewis, Horst; Ross, Klaus; and Neher, Dieter, 3,661,880.
Penney, J. C., Company, Inc.: *See—*
D'Agrosa, Rosario, 3,659,353.
Penniman, Allen; and Koenig, Elmer A., to Sherwood Medical Industries, Inc. Thermometer set. 3,696,916, 10-10-72, Cl. 206-16,600.
Penniman, John G., Jr. Edge-inking of shoe soles and coloring of uppers. 3,679,454, 7-25-72, Cl. 117-44,000.
Penning, Hans: *See—*
Wenzel, Werner; and Penning, Hans, 3,671,402.
Pennington, Davis W.; and Taylor, Ruth N., to Kinetic Lighting. Light fixture with changing light emission. 3,701,897, 10-31-72, Cl. 240-78,00f.
Pennington, Edward N., to Phillips Petroleum Company. Process control. 3,676,066, 7-11-72, Cl. 23-198,000.
Pennington, John Stanley, to British Steel Corporation. Metallic cage structure and apparatus for manufacturing same. 3,706,331, 12-19-72, Cl. 140-112,000.
Pennington, Keith S.: *See—*
Lean, Eric G.; Pennington, Keith S.; Pole, Robert F.; and Powell, Carl G., 3,633,995.
Pennington, Keith S.; Shelton, Glenmore L., Jr.; and Will, Peter M., to International Business Machines Corporation. Three dimensional zone plate grid encoding and decoding. 3,667,831, 6-6-72, Cl. 350-162,00f.
Pennington, Robert E.: *See—*
Wilson, Edward L.; and Pennington, Robert E., 3,692,662.
Pennsalt Chemicals Corporation: *See—*
Culver, William Harry, 3,702,262.
Pennstar Company, The: *See—*
Neely, Raymond J., 3,660,117.
Pilish, Andre, 3,706,168.
Pennsylvania Engineering Corporation: *See—*
Rokop, Joseph; and Hughes, Geoffrey W., 3,682,233.
Rokop, Joseph; and Hughes, Geoffrey W., 3,692,292.
Rokop, Joseph; and Hughes, Geoffrey W., 3,702,154.
Pennsylvania Industrial Chemical Corporation: *See—*
Dalbey, Theodore E., 3,697,599.
Hollis, Samuel D.; and Winston, Philip E., Jr., 3,692,844.
Vredenburg, Walter A.; and Hollis, Samuel D., 3,674,723.
Pennsylvania Sewing Research Corporation: *See—*
Baumhaft, Irving, 3,653,348.
Glassman, Aaron, 3,695,490.
Penntube Plastics Company: *See—*
Ayella, Edmond R., 3,674,733.
Pennwalt Chemicals Corporation: *See—*
Miller, Harold J.; and Sandeno, James L., 3,658,965.
Pennwalt Corporation: *See—*
Arpajian, Vasken F.; and White, Quentin M., 3,661,485.

- Atkiss, Thomas Clifford, 3,664,887.
Bafford, Richard A., 3,644,536.
Bafford, Richard Anthony, 3,706,783.
Block, Burton Peter; Nannelli, Piero Luigi; Gillman, Hyman David; and Thomas, Paula Marion, 3,663,460.
Brown, Lewis Judson; Lippy, Joseph Edmund, Jr.; and Payne, Herbert James, 3,632,487.
Buchholz, Bernard, 3,646,081.
Buchholz, Bernard, 3,652,680.
Cassella, Vincent Joseph, Jr., 3,668,124.
Ciavattoni, Anthony; Hammen, William; and Heimur, Karl, 3,665,682.
D'Angelo, Antonio Joseph, 3,657,311.
D'Angelo, Antonio Joseph, 3,657,312.
D'Angelo, Antonio Joseph, 3,671,651.
Dukert, Andrew A.; and Christofas, Alkis, 3,680,997.
Dychdala, George Roman; and Cox, Robert James, 3,645,005.
Faude, Jack Herman; and Hollman, Henry, 3,636,349.
Groepfer, Jurgen; and Sanchez, Jose, 3,686,102.
Groepfer, Jurgen, 3,689,594.
Hager, Robert Bonner, 3,706,787.
Haines, Paul G.; and Albert, Harry Elmer, 3,697,470.
Henshaw, Charles Edward, 3,668,819.
Hutchinson, Herman R.; Arpajian, Vasken F.; and Malcomson, Robert S., 3,642,402.
Hutchinson, Herman R.; Arpajian, Vasken F.; and Malcomson, Robert S., 3,695,800.
Keith, Frederick Walter, Jr., 3,677,405.
King, James Ping, 3,668,193.
Mageli, Orville Leonard; and D'Angelo, Antonio Joseph, 3,706,818.
McKellin, Wilbur H., 3,660,468.
Miller, Henry C., 3,700,627.
Mitchell, Lawrence R.; and Conkling, William C., 3,666,379.
Ocone, Luke Ralph, 3,675,699.
Ocone, Luke Ralph, 3,692,759.
Odhner, Oliver Randolph, 3,696,840.
Peschko, Norman Duffield, 3,692,727.
Popoff, Ivan C.; and Williams, Kenneth I. H., 3,679,736.
Sanchez, Jose, 3,650,972.
Schaefer, Robert B.; and Jernberg, Robert, 3,631,974.
Shapiro, Leonard, 3,677,673.
Sheppard, Chester Stephen; and Macleay, Ronald Edward, 3,644,406.
Sheppard, Chester Stephen; and MacLeay, Ronald Edward, 3,649,614.
Sheppard, Chester Stephen; and Korczykowski, Leonard Earnest, 3,657,324.
Shetty, Bola Vithal, 3,635,976.
Shetty, Bola Vithal, 3,637,698.
Sibley, Joseph F., 3,664,784.
Sudrablin, Leon P.; and Neugold, Harry, Jr., 3,691,040.
Taylor, Larry Christopher, 3,699,781.
Tongyai, Singkata, 3,649,371.
Vidal, Frederick D., 3,655,403.
Waltrich, Paul Francis, 3,704,875.
Yochum, Daniel William; Haines, Paul Gordon; and Popoff, Ivan C., 3,674,701.
Zambone, Albert S., 3,700,704.
Zambone, Albert S., 3,700,705.
Pennwalt Corporation, *mesne*: *See—*
Blake, Stephen, 3,676,498.
Penny, J. C., Company, Inc.: *See—*
Nobile, Charles B.; and Jacobs, Maurice A., 3,653,074.
Penny, Peter A., to Remington Arms Company, Inc. Multi-color indicator for a fluid operated system. 3,643,620, 2-22-72, Cl. 116-65.
Penny, Robert Noel, to Leyland Gas Turbines Limited. Thermal regenerators. 3,692,097, 9-19-72, Cl. 165-9,000.
Penny, William H., to Sierra Engineering Co. Visor-latching device. 3,631,540, 1-4-72, Cl. 2-6.
Pennypacker, Frank C., to Lindsay Specialty Products Limited. High frequency signal routing devices for use in CATV systems. 3,671,885, 6-20-72, Cl. 333-8,000.
Pennypacker, Frank Chester, to Lindsay Specialty Products Limited. Signal splitter. 3,676,744, 7-11-72, Cl. 317-99,000.
Pennzoil United, Inc.: *See—*
Drechsel, Erhart K.; Sardisco, John B.; and Stewart, James R., Jr., 3,697,246.
Penquite, Charles R.; and Barker, George E., to Monsanto Company. Apparatus and process for testing exhaust gas catalyst systems. 3,667,914, 6-6-72, Cl. 23-230.
Penrice, Peter John: *See—*
Shaw, Stuart Walter Ker; and Penrice, Peter John, 3,681,059.
Penrod, Orville R.: *See—*
Brandt, Ivan L.; and Penrod, Orville R., 3,639,274.
Penrod, Orville R.; and Smith, Wallace B. Puzzle toy. 3,684,292, 8-15-72, Cl. 273-156,000.
Pensa, Carlo. Hydraulic apparatus for regulating the flow of one or more pumps. 3,694,168, 9-26-72, Cl. 417-222,000.
Pensa, Pietro, to Massey-Ferguson Services N.V. Wear compensating seal. 3,656,820, 4-18-72, Cl. 308-36.1.
Pensa, Pietro, to Massey-Ferguson Services N.V. Tilting dozer blade. 3,661,215, 5-9-72, Cl. 172-804.
Penso, George N. Automatic scaffolding erecting and dismantling machine. 3,684,056, 8-15-72, Cl. 182-19,000.
Pentegov, Igor Vladimirovich: *See—*
Mescheryak, Sergei Nikolaevich; Stenkovsky, Evgeny Petrovich; Pentegov, Igor Vladimirovich; Vorona, David Semenovich; and Moravsky, Vladislav Eduardovich, 3,644,699.
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Pentegov, Igor Vladimirovich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; Baglai, Vitaly Mikhailovich; Podola, Nikolai Vasilievich; and Emelyanenko, July Georievich, 3,665,081.
Pentegov, Igor Vladimirovich; Semergeev, Stepan Ivanovich; Sheikovskiy, Dmitry Alexeevich; Mescheryak, Sergei Nikolaevich; Stenkovsky, Evgeny Petrovich; Litvin, Leonid Vladimirovich; and Shelest, Nikolai Antonovich. Transformer with means for conveying electric energy to rotary current-collecting devices. 3,663,909, 5-16-72, Cl. 336-55.
Pentel Co., Ltd.: *See—*
Hirota, Tatsuo, 3,690,778.
Pentescu, Peter N.: *See—*
Bradley, John N.; and Pentescu, Peter N., 3,635,274.
Pentith, Gerald R. O.: *See—*
Lockwood, Peter; and Pentith, Gerald R. O., 3,639,004.
Pentith, Gerald R. O., to Greenside Machine Company, Limited. Cutting heads. 3,647,265, 3-7-72, Cl. 299-90.
Pento, Frank Louis, to Bell Telephone Laboratories, Incorporated. Digitally operated signal regenerator and timing circuit. 3,671,875, 6-20-72, Cl. 328-129.
Penton, Edgar W., to Eduardo's Industries. Process of making sauce concentrates. 3,652,299, 3-28-72, Cl. 99-144.
Penton, Edgar W., to Eduardo's Industries. Method of preparing glazed food products. 3,653,924, 4-4-72, Cl. 99-168.
Penton, Hugh V.; and Dunphy, Gerald P., to California Metal Enameling Company. Sign construction including novel section assemblies and section joiners. 3,704,535, 12-5-72, Cl. 40-125,00k.
Pentron Electronics Corporation: *See—*
Sampey, Harry R., 3,642,087.
Pentronix, Inc.: *See—*
Smith, Joseph E., 3,682,577.
Penwell, James T. Oil well pump working barrel. 3,678,811, 7-25-72, Cl. 92-169,000.
Penzel, Herbert W.: *See—*
Appleton, Norton A.; and Penzel, Herbert W., 3,675,007.
Penzes, Stephen, 30% to Canada-Cities Services, Ltd., 30% to Imperial Oil Limited, 30% to Atlantic Richfield Company and 10% to Royalite Oil Company, Limited. Treatment of bituminous sands for recovery of heavy metals therefrom. 3,656,938, 4-18-72, Cl. 75-01.
Penzl, Reinhold: *See—*
Schmidtke, Martin; Ruttenauer, Winfried; Penzl, Reinhold; and Vollmer, Brigitte, 3,646,305.
Peon, Gilbert A.: *See—*
Staehlin, John H.; and Peon, Gilbert A., 3,640,168.
Peonski, Edward, to American Gage & Machine Company. Machine tool and gaging apparatus. 3,704,557, 12-5-72, Cl. 51-165,750.
Peoples, Jerry A. Reciprocating engine. 3,653,297, 4-4-72, Cl. 91-184.
Peoples, John C. A.; and Adler, Stanford L., to Technicon Corporation. Automatic method and apparatus for the sequential typing of blood samples. 3,635,680, 1-18-72, Cl. 23-230.
Peoples, Richard A., to Bethlehem Steel Corporation. Method for treating a flux coating. 3,635,748, 1-18-72, Cl. 117-46.
Peoria Journal Star, Inc., The: *See—*
Schwarz, Walter K.; and Schlink, David J., 3,680,775.
Pep Professional and Engineered Patents Limited: *See—*
Rostoker, Louis, 3,692,919.
Pepe, Anthony Enrico; Lengnick, Guenther Fritz; and Neuroth, Charles George, to Stauffer-Wacker Silicone Corporation. Room temperature curing organopolysiloxanes. 3,661,816, 5-9-72, Cl. 260-18.
Pepe, Anthony Enrico; Lengnick, Guenther Fritz; and Neuroth, Charles George, to Stauffer-Wacker Silicone Corporation. Room temperature curing organopolysiloxanes. 3,684,793, 8-15-72, Cl. 260-18,00s.
Pepe, Enrico J.; and Kanner, Bernard, to Union Carbide Corporation. Quaternary ammonium salts of chloromethylated silicon compounds. 3,661,963, 5-9-72, Cl. 260-448.2.
Pepe, Enrico J.; and Marsden, James G., to Union Carbide Corporation. Urea silicon product and the preparation thereof. 3,671,562, 6-20-72, Cl. 260-448.80r.
Pepe, Frank W. Method of forming multiple hole conduit lamps and hangers. 3,650,141, 3-21-72, Cl. 72-332.
Pepe, Rudolf: *See—*
Hick, Harald Peter; and Pepe, Rudolf, 3,699,340.
Peper, Harvey G. Gripper clamp for screeds. 3,645,577, 2-29-72, Cl. 294-104.

Pepi, Guglielmo. Rolling slides. 3,645,588, 2-29-72, Cl. 308-6.
 Pepi, Inc.: *See—*
 Haas, David J.; and Pichert, Jerome, 3,689,790.
 Pepin, James J.: *See—*
 Walker, Robert R.; and Pepin, James J., 3,642,564.
 Peplin, Edward D., to Lakewood Manufacturing Co. Vibrating foot drying and treating apparatus. 3,683,896, 8-15-72, Cl. 128-24.200.
 Pepmeier, Carl R.: *See—*
 Sincavage, Joseph T.; Pepmeier, Carl R.; and Stoffregen, Louis E., 3,693,785.
 Pepmeier, Carl R., to FMC Corporation. Sheet material heating and humidifying device. 3,662,954, 5-16-72, Cl. 239-134.
 Pepmeier, Carl R.; Sincavage, Joseph T.; and Stoffregen, Louis E., to FMC Corporation. Apparatus for splicing sheet materials. 3,673,046, 6-27-72, Cl. 156-517.000.
 Pepper, Hurley D.: *See—*
 Farman, Charles E.; Green, Thomas C.; Pepper, Hurley D.; and Stone, Samuel, 3,686,115.
 Pepper, Kenneth V., to Esso Research and Engineering Company. Drain, waste and vent expansion joint. 3,650,549, 3-21-72, Cl. 285-27.
 Pepper, Peter W. Navigational course computer and plotter. 3,643,333, 2-22-72, Cl. 33-1.
 Pepperhoff, Werner: *See—*
 Fiedler, Alfred; and Pepperhoff, Werner, 3,647,575.
 Peppers, Norman A.: *See—*
 Vassiliadis, Arthur; Zweng, Harold C.; Peppers, Norman A.; and Alton, Lloyd E., 3,703,176.
 Peppin, Richard A.; and Trottochau, Lawrence D., to Mannix Construction Inc. Machine for inserting ties beneath a railroad track. 3,698,324, 10-17-72, Cl. 104-9.000.
 PEPRO-Societe pour le Developpement et la Vente de Specialites Chimiques: *See—*
 Poignant, Pierre; Pillon, Daniel; and Caffiero, Rodolphe, 3,681,389.
 PEPRO-Societe pour le Developpement et la Vente de Specialites Chimiques: *See—*
 Pacheco, Henri; Cronenberger, Lucien; Pillon, Daniel; and Thiollie, Jean, 3,632,618.
 Pillon, Daniel; and Trinh, Van Quy, 3,701,776.
 PEPRO-Societe pour le Developpement et al Vente de Specialites Chimiques: *See—*
 Ducret, Jacques; Pillon, Daniel; and Demozay, Daniel, 3,691,282.
 Per Corporation: *See—*
 Hobson, Russell B., Jr., 3,642,141.
 Pera, John D.: *See—*
 Buckman, John D.; Pera, John D.; and Rath, Fred W., 3,671,641.
 Buckman, Stanley J.; Buckman, John D.; Pera, John D.; and Rath, Fred W., 3,639,604.
 Buckman, Stanley J.; Buckman, John D.; Pera, John D.; and Rath, Fred W., 3,670,004.
 Pera, John D.; and Rath, Fred W., to Buckman Laboratories, Inc. S-chloromethyl compounds of 2-mercaptobenzothiazoles, 2-mercaptobenzoxazoles, and 2-mercaptobenzimidazoles. 3,669,981, 6-13-72, Cl. 260-306.000.
 Peral Hernandez, Antonio. Automatic device for dialling pulses. 3,659,058, 4-25-72, Cl. 179-90.
 Perales, Fernand: *See—*
 Gachot, Jean; and Perales, Fernand, 3,656,813.
 Gachot, Jean; and Perales, Fernand, 3,672,260.
 Gachot, Jean; and Perales, Fernand, 3,690,733.
 Peranio, Anthony: *See—*
 Amir, Ilan; and Peranio, Anthony, 3,678,754.
 Peratis, Michael P., to Ampex Corporation. Magnetic core inspection device. 3,640,374, 2-8-72, Cl. 198-30.
 Perazzoni, Pierluigi: *See—*
 Siclari, Francesco; Perazzoni, Pierluigi; and Silvestroni, Piergiorgio, 3,632,558.
 Perce, Clyde E.: *See—*
 West, Alfred Gordon; Harden, Chester M.; and Perce, Clyde E., 3,633,687.
 Perception Technology Corporation: *See—*
 Benninghof, William J., Jr., 3,639,691.
 Percher, Guy, to Societe d'Instrumentation Schlumberger. Method and apparatus for addressing different data points from a central station. 3,699,523, 10-17-72, Cl. 340-172.500.
 Percheron, Jean-Claude G.; and Septier, Louis, said Percheron assor. to Compagnie Pechiney. Process for the treatment of nodular cast iron. 3,661,566, 5-9-72, Cl. 75-130.00r.
 Percival, Herbert Warren: *See—*
 McLeod, Melvin Elliott; Deutschman, John Edward; Percival, Herbert Warren; and Spoel, Han, 3,676,105.
 Percival, John O., to National Cash Register Company, The. Semiconductor flip-chip soldering method. 3,665,590, 5-30-72, Cl. 29-494.000.
 Percival, John O., to National Cash Register Company, The. Semiconductor chip bonding method. 3,667,848, 6-6-72, Cl. 356-153.000.

Perconti, Thomas J., to Eastman Kodak Company. Surface winding apparatus. 3,692,252, 9-19-72, Cl. 242-66.000.
 Perdue, Richard R.; Hoagland, Le Roy F.; and Kuehne, Richard O., to Grace, W. R., & Co. Vacuum skin package and process and apparatus for making same. 3,694,991, 10-3-72, Cl. 53-22.00a.
 Perdue, Roy D.: *See—*
 Cohn, Morris I.; and Perdue, Roy D., 3,642,511.
 Perduijn, David Jacob: *See—*
 Peloschek, Hans Peter; and Perduijn, David Jacob, 3,671,436.
 Pere, Carlo; and Tornich, Fulvio. Method for heating metal slabs or billets in continuous pusher-type furnaces. 3,677,531, 7-18-72, Cl. 263-6.00r.
 Pere, Carlo; and Tornich, Fulvio. Method of heating steel ingots in soaking pits and combustion system for performing said method. 3,689,041, 9-5-72, Cl. 263-40.00r.
 Pere, Carlo; Tornich, Fulvio; and Macor, Tranquillo. Automatic control apparatus for soaking pit furnaces. 3,689,042, 9-5-72, Cl. 263-40.00r.
 Pere, Gerard, to Creusot-Loire. Device for driving a rotary element capable of deformation and of displacement parallel to its theoretical axis of rotation. 3,706,237, 12-19-72, Cl. 74-410.000.
 Perego, Giuseppe. Play-pen for children. 3,656,194, 4-18-72, Cl. 5-98.
 Perego, Giuseppe. Molding apparatus having ejector pins with oriented shaping surfaces for product removal. 3,687,591, 8-29-72, Cl. 425-249.000.
 Peregud, Boris Petrovich: *See—*
 Gumenjuk, Boris Andreevich; Peregud, Boris Petrovich; Cherstov, Leonid; Granberg, Georgy Ljubimovich; and Ivanova, Galina Davydovna, 3,659,095.
 Pereira, Adolfo J. Method for fenestration of contact lenses. 3,688,386, 9-5-72, Cl. 29-558.000.
 Pereplechikov, Leonid Yakovlevich: *See—*
 Voronin, Grigory Ivanovich; Vzorov, Mikhail Ivanovich; Karaski, Ilya Lvovich; Lyagushkin, Jury Dmitrievich; Pereplechikov, Leonid Yakovlevich; Khokhlova, Nina Dmitrievna; and Petrov, Jury Mikhailovich, 3,650,197.
 Peres, Anthony R., to Peres Electronic Machinery, Inc. Conveyor jogging mechanism. 3,707,216, 12-26-72, Cl. 198-30.000.
 Peres Electronic Machinery, Inc.: *See—*
 Peres, Anthony R., 3,707,216.
 Peres, Gerard: *See—*
 Biet, Jean-Pierre; Nguyen, Quang Tan; Peres, Gerard; and Ripoch, Gerard, 3,697,760.
 Peresie, Robert J.: *See—*
 Binning, Robert C.; Parts, Leo P.; Peresie, Robert J.; and Rodenburg, Margaret L., 3,699,210.
 Peretto, David P.: *See—*
 Mack, Thomas W.; Peretto, David P.; and Allen, Alden W., 3,643,239.
 Perevozchikov, Evgeny Titovich: *See—*
 Shtin, Lev Mikhailovich; Grebnev, Nikolai Feodosovich; Satovskaya, Ljudmila Sergeevna; Rasseikin, Mikhail Grigorievich; Khirdzhiev, Sergei Grigorievich; Perevozchikov, Evgeny Titovich; Zagulina, Sofia Stepanovna; Duda, Vladimir Nikolaevich; and Karasev, Mihail Andreevich, 3,664,168.
 Pereyra, Armand J. Necktie rack. 3,705,653, 12-12-72, Cl. 211-13.000.
 Perez, Arthur, to Clark Equipment Company. Two stage refrigeration plant having a plurality of first stage refrigeration systems. 3,675,441, 7-11-72, Cl. 62-278.000.
 Perez, Arthur, to Clark Equipment Company. Walk-in cooler refrigerated display case combination. 3,698,205, 10-17-72, Cl. 62-256.000.
 Perez, Damaso Rodolfo Adelto. Screen filter pack and method for making same. 3,679,057, 7-25-72, Cl. 210-223.000.
 Perez, Frank, Jr.: *See—*
 Midulla, Giuseppe, 3,699,046.
 Perez, Gregorio A. Disposable razor. 3,703,765, 11-28-72, Cl. 30-41.000.
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 Ray, Roger E.; and Perez-Stable, Nicholas, 3,643,160.
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 Jones, Richard B., 3,631,783.
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 Pergola, Nicola F. Method and apparatus for treating and disposing of sewage. 3,655,048, 4-11-72, Cl. 210-67.
 Perhach, John M., to Glar-Ban Corporation. Torque motor controlled fluid valve. 3,662,784, 5-16-72, Cl. 137-625.620.
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 Cargill, Norman Allen, 3,707,122.
 Schisselbauer, John C., 3,660,698.
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 Milligan, Lee J., 3,671,807.
 Perison, Ronald C., Sr., to Lamson & Sessions Co., The. Break-away support for rear vision mirror. 3,635,435, 1-18-72, Cl. 248-475.
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 Atwood, John G.; and Kerr, Edwin L., 3,659,452.
 Buchanan, Robert, 3,696,246.
 Bushman, Bliss M.; and Whistler, Wayne J., 3,648,047.
 Bushman, Bliss M.; and Schultz, William D., 3,671,100.
 Condon, Richard D., 3,698,869.
 Downs, Horace Dean; and Purcell, John E., 3,635,093.
 Farren, Gerard M., 3,657,093.
 Kreuzer, Justin L., 3,631,711.
 Langenbeck, Peter H., 3,633,037.
 Lee, Paul H., 3,641,456.
 Lee, Paul H.; and Skolnick, Michael L., 3,697,887.
 Major, Harold W., Jr., 3,673,404.
 Markle, David A., 3,641,344.
 Offner, Abe, 3,674,334.
 Preston, Kendall, Jr., 3,636,261.
 Preston, Kendall, Jr., 3,641,355.
 Rayces, Juan L., 3,700,310.
 Rigden, Jameson Danc; and Huchital, David A., 3,681,600.
 Roche, John M.; and Sawyer, Rene C., Jr., 3,659,945.
 Schenckman, Stanley, 3,645,624.
 Scott, Roderic M., 3,699,245.
 Staunton, John J. J., 3,705,048.
 Vergato, Joseph A., 3,659,942.
 Perkin-Elmer Limited: *See—*
 Leane, John Bryant; and Higham, Peter, 3,699,428.
 Parker, Leslie Kearton, 3,648,156.
 Perkins, Carl C., Jr.: *See—*
 Conway, Maurice A.; Perkins, Carl C., Jr.; and Bellem, Norman A., 3,669,051.
 Perkins, Carl C., Jr., to Butler Manufacturing Company. Continuous production of resoles. 3,657,188, 4-18-72, Cl. 260-60.
 Perkins, Carroll R.: *See—*
 Shaffstall, Everett L.; Perkins, Carroll R.; and Gundersen, James L., 3,646,587.
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 Bowen, John W.; and Perkins, Donald D., 3,683,144.
 Perkins, Donald V.: *See—*
 Jones, Doyle P.; Kohm, Robert C.; and Perkins, Donald V., 3,669,299.
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 Stewart, William F., 3,673,651.
 Vulliamy, Nicholas Martin F., 3,678,914.
 Perkins, Garry P., to Spotnails, Inc. Fastener positioning device. 3,648,914, 3-14-72, Cl. 227-156.
 Perkins, Garry R., to Spotnails, Inc. Pneumatic driving tool with a fail-safe mechanism. 3,651,740, 3-28-72, Cl. 91-417.
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 Perkins, Garry R.; and Goode, James K., to Spotnails, Inc. Magazine and feed assembly for a fastener-driving tool. 3,688,966, 9-5-72, Cl. 227-127.000.
 Perkins, Garry R., to Spotnails, Inc. Fastener guiding device. 3,707,406, 12-26-72, Cl. 227-130.000.
 Perkins, Gerald S.: *See—*
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 Perkins, Gilbert T., to Du Pont de Nemours, E. I., and Company. Recovery of aromatic diisocyanates from still residues. 3,636,030, 1-18-72, Cl. 260-453.
 Perkins, Gilbert Thornton: *See—*
 Cooper, John Richard; and Perkins, Gilbert Thornton, 3,694,323.
 Perkins, Glynn E.: *See—*
 Kestler, Ralph, 3,650,032.
 Perkins, James Frank: *See—*
 Honey, Raymond; and Perkins, James Frank, 3,666,496.
 Honey, Raymond; and Perkins, James Frank, 3,674,502.
 Perkins, Lee E.: *See—*
 Anderson, Merlin F.; and Perkins, Lee E., 3,702,634.
 Perkins, Leonard: *See—*
 Edwards, John David; Perkins, Leonard; Donald, John Henry; Chappell, Peter Lee; Newcombe, Sean Benjamin; and Roe, Malcolm David, 3,697,729.
 Perkins, Merlyn H.: *See—*
 Barnard, John D.; Gaito, Carl C.; Giedo, Gary R.; Greene, Thomas G.; Lind, James W.; Perkins, Merlyn H.; and Pross, Charles M., 3,648,175.
 Giedd, Gary R.; and Perkins, Merlyn H., 3,659,340.
 Perkins, Neale A., to Safariland Ltd., Inc. Belt. 3,664,560, 5-23-72, Cl. 224-5.00r.
 Perkins, Ralph. Pipe joining jack. 3,653,115, 4-4-72, Cl. 29-237.
 Perkins, Ralph W.: *See—*
 Morden, Russell L.; and Perkins, Ralph W., 3,704,637.
 Perkins Research & Mfg. Co.: *See—*
 Bennett, Richard L., 3,699,274.
 Perkins Services N.V.: *See—*
 Wilkinson, William H., 3,665,787.
 Wilkinson, William H., 3,673,797.
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 Perkinson, Leon A.: *See—*
 Moore, Francis C.; and Perkinson, Leon A., 3,678,933.
 Perkow, Werner: *See—*
 Haberland, Erich; and Perkow, Werner, 3,679,359.
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 Ackroyd, Ronald Tunstal; and Perks, Maurice Arthur, 3,660,227.
 Perl, Richard L., to Tappan Company, The. Gas smooth top range. 3,646,927, 3-7-72, Cl. 126-39.
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 Perl, Theodore. Light-proofed automatic radiographic cassette unloader-reloader. 3,675,014, 7-4-72, Cl. 250-66.00.
 Perla, Martin R. Needle positioning mechanism for sewing machines. 3,667,412, 6-6-72, Cl. 112-219.00a.
 Perlberg, William: *See—*
 Gerstein, Terry; Perlberg, William; and Schwarz, Milton, 3,636,213.

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- Perlick, Reinhold; and Duerhagen, Klaus, to Eaton Yale & Towne, GmbH. Mortise lock with latchbolt and deadbolt, especially for hotel guest room doors. 3,631,695, 1-4-72, Cl. 70-432.
- Perlinger, Hans L.; and Milazzo, Joseph S., to GAF Corporation. Preparation of monobenzamido derivatives of diaminoanthraquinone. 3,651,099, 3-21-72, Cl. 260-377.
- Perlino, Silvano, to Necchi, S.p.A. Bobbin winding device for sewing machines. 3,635,412, 1-18-72, Cl. 242-20.
- Perlino, Silvano, to Necchi S.p.A. Apparatus for automatically sewing patch pockets onto garments. 3,667,411, 6-6-72, Cl. 112-121.12.
- Perlino, Silvano, to Necchi S.p.A. Sewing machine with base extension. 3,677,210, 7-18-72, Cl. 112-258.000.
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Upadhyayula, Chainulu Lakshminarasimha; and Perlman, Berry Stuart, 3,686,578.
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Carter, Daniel E.; Lederer, David B.; and Perlman, David E., 3,651,324.
- Perlman, David E.; and Wiktorski, Daniel F., to Eastman Kodak Company. Automatic focusing device. 3,631,785, 1-4-71, Cl. 95-44.
- Perlman, David E., to Detection Systems, Inc. Single terminal electro-optical intruder detection device. 3,644,917, 2-22-72, Cl. 340-258.
- Perlman, David E., to Detection Systems Inc. Integrating circuit using a programmable unijunction transistor. 3,644,918, 2-22-72, Cl. 340-276.
- Perlman, David E., to Detection Systems, Inc. Parametric integrator for condition-responsive systems. 3,680,047, 7-25-72, Cl. 340-258.00b.
- Perlman, David E.; and Degen, Donald S. Detection system employing digital bandpass filtering circuitry. 3,681,745, 8-1-72, Cl. 340-1.00r.
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Kolankowsky, Eugene; McMahon, Robert F.; and Perlman, David J., 3,643,236.
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United States of America, National Aeronautics and Space Administration, 3,700,869.
- Perlman, Morris. Method and apparatus for attaching sliders to a slide fastener chain. 3,663,000, 5-16-72, Cl. 29-207.5.
- Perlman, Sol J., to Vac Pac Manufacturing Company, Inc. Process for packaging articles. 3,686,823, 8-29-72, Cl. 53-22.00b.
- Perlman Stuart Stanley; and McCusker, Joseph Henry, to RCA Corporation. Ferro-electric transformers with means to suppress or limit resonant vibrations. 3,683,211, 8-8-72, Cl. 310-8.200.
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Paoletta, Rocco E.; and Petrou, William, 3,643,350.
- Perma Products Co.: *See—*
Pryor, James T., 3,667,666.
- Permalok International, Inc.: *See—*
Holly, James A., 3,699,978.
- Permaneer Corporation: *See—*
Portnoy, Allen J.; and Mundy, William L., 3,681,159.
- Permanence Corporation: *See—*
Wendler, Charles F.; and Baum, Charles S., 3,684,497.
- Permatatch Diamond Tool Corporation: *See—*
Farkas, Peter, 3,650,714.
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- Perminov, Evgeny Mikhailovich. Drawing head for use in drawing devices. 3,657,822, 4-25-72, Cl. 33-79.
- Perminov, Evgeny Mikhailovich, to Minsky Opytny Zavod Spetsialnogo Konstrukorskogo Bjuro No. 3. Drawing machine. 3,682,108, 8-8-72, Cl. 108-6.000.
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Launay, Jacques; and Mongault, Jacques, 3,683,961.
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Khlebutin, Gleb Sergeevich, 3,683,363.
- Permsky Politekhicheskyy Institut: *See—*
Gertsen, Petr Petrovich; and Suverneva, Taisia Georgievna, 3,695,828.
- Permutit Company Limited, The: *See—*
Arden, Thomas Victor; Borra, Albert George; and Clayton, Rolf Crowther, 3,674,685.
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Casella, Luigi; Perna, Aldo; and Valbonesi, Giuseppe, 3,673,340.
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Eckert, Hans-Werner; and Perner, Johannes Jurgen, 3,704,228.
- Pernet, Michel, to Erste Deutsche Floatglas GmbH & Co. Weir-like body extending from below into a body of moving molten glass. 3,700,424, 10-24-72, Cl. 65-333.000.
- Pernick, David: *See—*
Pernick, Louis, 3,643,470.
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- Perno, Bartholomew J.: *See—*
Marshall, George E.; Perno, Bartholomew J.; and Stokes, Robert G., 3,685,905.
- Pernoud, Claude: *See—*
Colinet, Andre; Mercier, Jacques; and Pernoud, Claude, 3,640,457.
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- Pero, Vincent C. Baseball pitching practice device. 3,698,712, 10-17-72, Cl. 273-26.00a.
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Vidal, Gilbert; and Peron, Bernard, 3,651,390.
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- Perotti, Anthony, 1/2 to White, Michael S. Automatic surgery retractor. 3,643,655, 2-22-72, Cl. 128-20.
- Perotti, Dino; and Perotti, Mario. Pedal link assembly for bicycles. 3,648,542, 3-14-72, Cl. 74-594.1.
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Perotti, Dino; and Perotti, Mario, 3,648,542.
- Perotto, Pier Giorgio, to Olivetti, Ing., C., & C., S.p.A. Data input device. 3,707,715, 12-26-72, Cl. 340-365.00p.
- Perov, Alexandr Vasilievich: *See—*
Brukovsky, Igor Pavlovich; Yakovlev, Pavel Borisovich; Gutterman, Kirill Davidovich; Perov, Alexandr Vasilievich; Zhukov, Vladimir Fedorovich; Nekrasova, Larisa Petrovna; and Ivanovsky, Jury Dmitrievich, 3,689,798.
- Peroy, Francois: *See—*
Rouvre, Philippe; and Peroy, Francois, 3,657,626.
- Rouvre, Philippe A. R.; Pineau, Jean E.; and Peroy, Francois, 3,633,085.
- Perozek, David M.: *See—*
Wernikoff, Robert E.; Perozek, David M.; and Roten, Jana M., 3,654,846.
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McCumin, Thomas W.; and Perper, Lloyd J., 3,643,166.
- Perper, Robert J., to Upjohn Company, The. Process for separating horse gamma globulin fractions by chromatography. 3,664,994, 5-23-72, Cl. 260-112.
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- Perras, Colette, to Moxness Products, Inc. Implantable breast prosthesis filled with gels of different densities. 3,681,787, 8-8-72, Cl. 3-36.000.
- Perras, Philippe: *See—*
Daunis, Henri; and Perras, Philippe, 3,654,365.
- Perrat, Jean-Marie: *See—*
Prayer, Gerard; and Perrat, Jean-Marie, 3,670,919.
- Perrault, Delphus Eugene; and Schopp, Frederick Ralph, to Web Press Corporation. Variable-drive hydraulic transmission for the fountain and ductor roll assemblies of an offset printing press. 3,686,863, 8-29-72, Cl. 60-54.50r.

- Perrault, Jean; and Salle, Adelin E. G., to International Standard Electric Corporation. Data transmission system bidirectional data transmission system with error correction. 3,641,494, 2-8-72, Cl. 340-146.1.
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- Perreault, Donald A., to Xerox Corporation. Multi-waveform generation from a single tapped delay line. 3,659,207, 4-25-72, Cl. 328-14.
- Perreault, Jules; and Southiere, Bertrand, to Bombardier Limited. Tracked vehicle suspension. 3,658,392, 4-25-72, Cl. 305-24.
- Perreault, Jules, to Bombardier Limited. Endless track. 3,704,918, 12-5-72, Cl. 305-38.000.
- Perreault, Jules; and Lemieux, Claude, to Bombardier Limited. Spring unit for snowmobile ski runner assembly. 3,707,297, 12-26-72, Cl. 280-25.000.
- Perrella, Donald J. Educational device. 3,654,706, 4-11-72, Cl. 35-9.
- Perrella, Guido; and Genest, Robert, to Testograph Limited. Testing machine. 3,651,585, 3-28-72, Cl. 35-22.
- Perrella, Guido. Precision drill press. 3,682,562, 8-8-72, Cl. 408-234.000.
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Allgower, Martin; Perren, Stefan; and Russenberger, Max E., 3,668,972.
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Fleisch, Alfred; and Perren, Stephan, 3,686,925.
- Perret, Marcel Andre. Chicken flavor and process for preparing the same. 3,689,289, 9-5-72, Cl. 99-140.00n.
- Perrett, Brian Raymond, to British Aircraft Corporation Limited. Apparatus for signalling angular displacement. 3,648,042, 3-7-72, Cl. 235-189.
- Perretta, Michael L.: *See—*
Frank, Jack D.; and Perretta, Michael L., 3,636,777.
- Perri, Joseph, to Susquehanna Corporation, The. Apparatus for lining a hot top casing with insulating panels and ring. 3,675,304, 7-11-72, Cl. 29-238.
- Perri, Joseph G., to Kidde, Walter, Constructors Incorporated. Modular high-rise structure. 3,638,380, 2-1-72, Cl. 52-236.
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Browning, William C.; Perricone, Alphonse C.; and Elting, Katherine Anne C., 3,677,961.
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- Perrier, Augustin. Warp guide bar mechanism. 3,681,943, 8-8-72, Cl. 66-86.000.
- Perrier, Jean Georges. Elevating apparatus. 3,637,099, 1-25-72, Cl. 214-660.
- Perrin, Alfred J.; Dell John D.; Evans, David B.; and Lewis, George Stanley. Coiled tube banks. 3,677,339, 7-18-72, Cl. 165-162.000.
- Perrin, Badger: *See—*
Lake, Donald; Perrin, Badger; and Nolan, Frederick J., 3,675,817.
- Perrin, Dennis William: *See—*
Searle, John Albert; and Perrin, Dennis William, 3,664,038.
- Perrin, Eugene M., to Westinghouse Electric Corporation. Thyristor gate pulse generator. 3,643,112, 2-15-72, Cl. 307-252.
- Perrin, Gunter; and Pabinger, Gerhard, to Daimler-Benz Aktiengesellschaft. Viscosity coupling, especially for coupling a fan to its drive in an internal combustion engine. 3,688,884, 9-5-72, Cl. 192-58.00b.
- Perrin, Jean-Louis: *See—*
Lombard, Claude; and Perrin, Jean-Louis, 3,691,873.
- Perrin, Louis R.F.J. Soldering apparatus. 3,685,715, 8-22-72, Cl. 228-37.000.
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- Perrine, Walter E. Lifting yoke. 3,679,107, 7-25-72, Cl. 224-5.00p.
- Perrine, William F.: *See—*
Hugle, William B.; Pedrotti, Donald G.; and Perrine, William F., 3,645,230.
- Perrinet, Paul Marie, to SEMIA S.A. Hot air generator with variable length conduit. 3,640,458, 2-8-72, Cl. 237-50.
- Perring, Dudley: *See—*
Phillips, Graham; and Perring, Dudley, 3,683,235.
- Perrino, Albert C.; and Israel, Michael G., to I.C.I./Organics Inc. Substituted β - β -thio diethyl sulfones. 3,644,488, 2-22-72, Cl. 260-481.
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Macedo, Frank A.; and Perrino, Thomas W., 3,672,584.
- Perrisini, Richard. Electrical component control device. 3,694,788, 9-26-72, Cl. 338-180.000.
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Fassler, Michael H.; and Perron, James S., 3,698,467.
- Perron, Yvon G.; and Douglas, James L., to Bristol-Myers Company. Process for the preparation of 1-indancarboxylic acids. 3,696,145, 10-3-72, Cl. 260-515.00r.
- Perrone, George L.: *See—*
Norman, Leslie W.; Hunter, Skillman C.; and Perrone, George L., 3,646,761.
- Perronnet, Jacques: *See—*
Bertin, Daniel; Perronnet, Jacques; and Teche, Andre, 3,658,819.
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Perrot, Alexander; and Schucker, Emil, 3,647,140.
- Perrott, Charles H.; and Watts, James B., to Precision Plumbing Products, Inc. Fluid hammer arrester. 3,633,627, 1-11-72, Cl. 138-31.
- Perrotti, Emilio: *See—*
Mattuici, Anna Maria; and Perrotti, Emilio, 3,668,227.
- Perrotti, Emmanuel J.; Ranghelli, Joseph C.; and Felsenheld, Robert A., to International Telephone and Telegraph Corporation. Dual polarized printed circuit dipole antenna array. 3,681,769, 8-1-72, Cl. 343-814.000.
- Perroud, Paul H.: *See—*
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- Perry, Adolphus R., to Bendix Corporation, The. Control system for vehicles. 3,648,228, 3-7-72, Cl. 340-23.
- Perry, Alden P.: *See—*
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- Perry, Arthur L. Metal pouring apparatus for a smelting furnace. 3,631,915, 1-4-72, Cl. 164-266.
- Perry, Charles B.; and Attermeyer, Lawrence A., to Cincinnati Milacron Inc. Machine tool with tool changing and transferring means. 3,650,018, 3-21-72, Cl. 29-568.
- Perry, Charles C., to Vishay Intertechnology, Inc. Apparatus for visually demonstrating stress patterns in a photoelastic model. 3,651,584, 3-28-72, Cl. 35-19.
- Perry, Charles C.; and De Villiers, Andre L., to Kelsey-Hayes Company. Skid control system. 3,663,069, 5-16-72, Cl. 303-21.
- Perry, Dean A., to Allied Industrial Components. Automatic positioning accessory for numerical control machine tools. 3,684,939, 8-15-72, Cl. 318-468.000.
- Perry, Donald S.: *See—*
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- Perry, E. Robert; and Gorin, Eugene, to I-T-E Imperial Corporation. Disconnect switch utilizing insulating base having integrally formed insulator bushings. 3,646,288, 2-29-72, Cl. 200-48.
- Perry, Edmond S.: *See—*
Beavers, Dorothy J.; Staudenmayer, William J.; and Perry, Edmond S., 3,632,338.
- Perry, Elmer W. Roof structure with stationary and moveable sheathed sections. 3,701,225, 10-31-72, Cl. 52-71.000.
- Perry, Ernest J.: *See—*
Smith, Donald A.; Perry, Ernest J.; and Hollister, Kenneth R., 3,692,753.
- Perry, Ernest John: *See—*
Bacon, Robert Elwon; Perry, Ernest John; and Jones, Evan Thomas, 3,690,888.
- Hollister, Kenneth Robert; and Perry, Ernest John, 3,679,425.
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- Perry, Frederic F. Weather vane anemometer. 3,691,829, 9-19-72, Cl. 73-189.000.
- Perry, George H.: *See—*
Green, Warren E.; and Perry, George H., 3,661,540.
- Perry, George S., to Universal Packaging Corporation. Boxboard carton closure. 3,638,853, 2-1-72, Cl. 229-51.
- Perry Industries, Inc., mesne: *See—*
Aronson, Theodore F., 3,656,518.
- Taylor, Arthur Sinclair; and Sandhage, Ellsworth Roland, 3,656,517.
- Perry, James L., to Union Carbide Corporation. Cryogenic storage apparatus. 3,698,589, 10-17-72, Cl. 220-14.000.
- Perry, James R., Jr., to Collins Radio Company. J-K Flip-flop monostable multivibrator apparatus. 3,668,534, 6-6-72, Cl. 328-207.000.
- Perry, James T., 1/2 to Philip H. Willkie. Pitcher's mound with toe block and reinforcing ribs. 3,703,285, 11-21-72, Cl. 273-25.000.
- Perry, John E., to Horizons Research Incorporated. Scrap recovery process. 3,697,257, 10-10-72, Cl. 75-64.000.
- Perry, Leo F.; and Puermer, Gale N., to AquaMatic, Inc. Motor-operated valve. 3,633,623, 1-11-72, Cl. 137-625.46.
- Perry, Malcolm R.: *See—*
Pindell, Stuart M., Jr.; Johnson, Donald J.; Fickes, Robert E.; Perry, Malcolm R.; and Radcliffe, Wayne K., 3,635,011.

- Perry, Max W.; and Brockelsby, Norman D., to Dutton-Lainson Company. Valve construction. 3,648,728, 3-14-72, Cl. 137-525.
- Perry, Max W.; and Brockelsby, Norman D., to Dutton-Lainson Company. Hand pump oiler. 3,664,556, 5-23-72, Cl. 222-385.
- Perry, Max W.; and Brockelsby, Norman D., to Dutton-Lainson Company. Motor switch arrangement. 3,681,550, 8-1-72, Cl. 200-155,000.
- Perry, Ralph S., to Texas Instruments, Incorporated. Computer memory system. 3,688,287, 8-29-72, Cl. 340-174.10e.
- Perry, Richard F.: *See—*
- Patak, Andrew B.; and Perry, Richard F., 3,635,098.
- Perry, Robert Bruce, to Du Pont de Nemours, E. I., and Company. Absorption unit. 3,656,280, 4-18-72, Cl. 55-240.
- Perry, Robert D. O.; and Markiewicz, Joseph F. Slitted resilient closure having substantially rigid cap. 3,693,843, 9-26-72, Cl. 222-212,000.
- Perry, Robert E., to Kaiser Aluminum & Chemical Corporation. Panel assembly. 3,635,130, 1-18-72, Cl. 94-13.
- Perry, Robert F.: *See—*
- Samm, Ralph W.; Perry, Robert F.; and Dodge, David S., 3,660,720.
- Perry, Robert H.; and Matty, Thomas C., to Westinghouse Electric Corporation. Pseudo-and gate having failsafe qualities. 3,673,429, 6-27-72, Cl. 307-218,000.
- Perry, Roger L.: *See—*
- Dorion, Francis W., Jr.; Nissen, Warren I.; and Perry, Roger L., 3,667,121.
- Nissen, Warren I.; and Perry, Roger L., 3,657,811.
- Perry, Roger L., to Gillette Company, The. Razor blade assembly. 3,675,322, 7-11-72, Cl. 30-32,000.
- Perry, Roger L., to Gillette Company, The. Razor blade assembly. 3,703,764, 11-28-72, Cl. 30-32,000.
- Perry, Stephen F.: *See—*
- Mayer, Ivan; and Perry, Stephen F., 3,642,609.
- Perry, Thomas E., to Republic Steel Corporation. Apparatus and process for deslagging steel. 3,632,096, 1-4-72, Cl. 266-37.
- Perry, Thomas E., to Republic Steel Corporation. Apparatus for deslagging and degassing molten metal. 3,704,013, 11-28-72, Cl. 266-13,000.
- Perry, Walter Merton, to Johns-Manville Corporation. Glass melting pot. 3,663,192, 5-16-72, Cl. 65-11.
- Perry, Wesley G., to Damon Corporation. Snap-acting surgical lancet. 3,659,608, 5-2-72, Cl. 128-314.
- Perry, William C.; Puttock, Eugene F.; and Schreiber, Ronald S., to Mallinckrodt Chemical Works. Agglomeration of phosphor materials prior to calcination to eliminate calcining in receptacles. 3,705,933, 12-12-72, Cl. 264-117,000.
- Pershin, Vladimir Yakovlevich: *See—*
- Karakashian, Zaven Oganezovich; Lazarian, Vsevolod Arutjunovich; Azarov, Boris Vasilievich; Bolotin, Mikhail Mikhailovich; Pershin, Vladimir Yakovlevich; Timoshuk, Albert Isidorovich; Dragonenko, Anatoly Alexandrovich; Zarakovich, Iliia Yakovlevich; and Svdirov, Mikhail Vasilievich, 3,656,632.
- Pershke, Frank F., Limited: *See—*
- McCarthy, Reginald J., 3,667,696.
- Persicke, Gunter, to Christiani & Nielsen Limited. Highway guard rail devices. 3,638,913, 2-1-72, Cl. 256-13.1.
- Persico, Giuseppe. Multiple tube-rolling pilger mills. 3,650,138, 3-21-72, Cl. 72-189.
- Persin, William J., to Baychem Corporation, mesne. Tread member and endless tracks made therefrom. 3,700,287, 10-24-72, Cl. 305-38,000.
- Persinger, Laverne O.; and Persinger, Merle L., to Big Boy Manufacturing Co., Inc. Gas-operated barbecue grill. 3,667,449, 6-6-72, Cl. 126-41,00r.
- Persinger, Merle L.: *See—*
- Persinger, Laverne O.; and Persinger, Merle L., 3,667,449.
- Persinos, Georgia J., to Amazon Natural Drug Company, The. Anti-inflammation compositions containing tospine or acid salts thereof and method of use. 3,694,557, 9-26-72, Cl. 424-279,000.
- Person, Gustav B., to Dunn, W. E., Mfg. Co. Measuring length of wire fabric by counting only strands normal to direction of motion. 3,652,864, 3-28-72, Cl. 250-219.
- Person, Paul L., to Catholic Press Society, Inc. Apparatus for stripping and cleaning backing plates or press saddles. 3,682,744, 8-8-72, Cl. 156-389,000.
- Personal Communications, Inc.: *See—*
- Waly, Adnan, 3,704,068.
- Personal Products Company: *See—*
- Comerford, John M., 3,683,917.
- Ells, Myron B., 3,683,919.
- Kapur, Chandra, 3,658,062.
- McGuire, Mary H.; and Kapur, Chandra, 3,643,662.
- Steiger, Fred H., 3,658,613.
- Personer AB: *See—*
- Persson, Bengt Ake, 3,667,377.
- Personick, Stewart David: *See—*
- Miller, Stewart Edward; and Personick, Stewart David, 3,687,514.
- Persons, Charles E.: *See—*
- Allen, Willard B.; Persons, Charles E.; and Brandon, Marshall K., 3,696,414.
- Persons, Perry B.: *See—*
- Wells, George H.; and Persons, Perry B., 3,660,829.
- Wells, George H.; and Persons, Perry B., 3,697,966.
- Persons-Majestic Mfg. Company: *See—*
- Bird, Martin J., 3,635,507.
- Townsend, Almon A., 3,658,380.
- Persson, Ake B.: *See—*
- Tillander, Magnus E.; Persson, Ake B.; and Johansson, Leif A. T., 3,641,945.
- Persson, Anders: *See—*
- Ling, Bernt; Persson, Anders; and Svensson, Olof, 3,694,936.
- Persson, Bengt Ake, to Personer AB. Tying mechanism for bales. 3,667,377, 6-6-72, Cl. 100-19,000.
- Persson, Erland K., to Electro-Craft Corporation. D.C. motor. 3,663,851, 5-16-72, Cl. 310-154.
- Persson, Henry. Flute cleaner for twist drills. 3,667,080, 6-6-72, Cl. 15-236,000.
- Persson, Henry. Mountable chip breaker and flute cleaner for rotating twist drills. 3,689,168, 9-5-72, Cl. 408-61,000.
- Persson, Jan Edvard. Screw rotors. 3,640,649, 2-8-72, Cl. 418-191.
- Persson, John A. Joining of prebaked electrodes. 3,705,947, 12-12-72, Cl. 13-18,000.
- Persson, Leif R., to AB Billingsfors-Langed. Method of manufacturing a material similar to textile containing paper. 3,674,594, 7-4-72, Cl. 156-299,000.
- Persson, Leif Ramon, to AB Billingsfors-Langed. Method of manufacturing a fabric-like material. 3,706,618, 12-19-72, Cl. 156-179,000.
- Persson, Lennart Gerhard: *See—*
- Andersson, Rolf Urban; and Persson, Lennart Gerhard, 3,669,344.
- Persson, Mats Olof: *See—*
- Andreasson, Per Arvid; and Persson, Mats Olof, 3,701,251.
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- Persson, Sverker P. E., to Research Corporation. Mushroom harvester. 3,635,005, 1-18-72, Cl. 56-327.
- Perssoms, Per Helge: *See—*
- Abrahamsson, Set Ingvar; and Perssoms, Per Helge, 3,702,138.
- Perstnev, Samuil Nisonovich: *See—*
- Okorokov, Ivan Fedorovich; Bogdanov, Gorgy Porfirievich; Sorokin, Konstantin Alexandrovich; Onischenko, Anatoly Fedorovich; Ziborov, Pavel Efimovich; and Perstnev, Samuil Nisonovich, 3,705,559.
- Perstorp AB: *See—*
- Ryrfors, Lars-Olof, 3,657,277.
- Sunden, Nils B., 3,647,595.
- Persyn, Gilbert A.: *See—*
- Stirrat, William A.; Rollwitz, William L.; and Persyn, Gilbert A., 3,643,181.
- Perti, Donato: *See—*
- Purdy, Bruce W.; and Perti, Donato, 3,663,956.
- Pertics, Emile E. Device for stemming fruit. 3,680,618, 8-1-72, Cl. 146-55,000.
- Pertuit, John R. Electric cable connector. 3,693,138, 9-19-72, Cl. 337-213,00r.
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- Perugini, Giancarlo; Mercato, Giorgio; Belotti, Luigi; and Caccamo, Carmelo, to Montecatini Edison S.p.A. Plasma-jet generator for versatile applications. 3,684,911, 8-15-72, Cl. 313-231,000.
- Perun, William D.: *See—*
- Klavsons, Uldis; Perun, William D.; Stoops, Denzel D.; and Terry, David M., 3,638,613.
- Perusek, Ronald J.: *See—*
- Addamiano, Arrigo; and Perusek, Ronald J., 3,636,397.
- Perusek, Ronald J., to General Electric Company. Traveling solvent method of growing silicon carbide crystals and junctions utilizing yttrium as the solvent. 3,669,763, 6-13-72, Cl. 148-171,000.
- Peruski, Henry C. Threshing machine. 3,645,269, 2-29-72, Cl. 130-27.
- Perusse, Ralph Edmond: *See—*
- Treschitta, John Philip; and Perusse, Ralph Edmond, 3,681,719.
- Perzo, Rene: *See—*
- Houdin, Henri; and Perzo, Rene, 3,648,466.
- Pesante, Manlio, to RIV-SKF Officine di Villar Perosa S.p.A. Speed control device. 3,672,100, 6-27-72, Cl. 51-165,770.
- Pesce, Carl A.; and Osheff, Sheldon, to Continental Can Company, Inc. Can weld side-seam defect detector utilizing infrared detection means and collimator fiber optics. 3,633,031, 1-4-72, Cl. 250-83.3.
- Pesch, Albert Tho: *See—*
- Reiners, Walter; Pesch, Albert Tho; and Bungter, Karl, 3,693,379.

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- Peschel, Stanley G.: *See—*
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- Peschel, Stanley G., to Hipotronics, Inc. Mechanically adjustable high voltage inductive reactor for series resonant testing. 3,703,692, 11-21-72, Cl. 336-134,000.
- Peschke, John Ralph: *See—*
- Kaercher, Ralph William; and Peschke, John Ralph, 3,704,804.
- Peschke, Karl, Kapitalverwaltungsgesellschaft Karl Peschke m.b.H.: *See—*
- Horn, Josef; Neumeier, Kurt; and Scharfenberger, Franz, 3,693,744.
- Peschko, Norman Duffield, to Pennwalt Corporation. Polytetrafluoroethylene dispersion coatings containing ammonium chromate or ammonium chromate-ammonium phosphate mixture. 3,692,727, 9-19-72, Cl. 260-29,60f.
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- Pesci, Arturo. Method and apparatus for controlling the expansion and retraction of a telescopic cylinder assembly. 3,691,904, 9-19-72, Cl. 91-169,000.
- Pescuma, Gerald F.; Durso, Alphonse J.; and Brown, Walter T., to General Products and Gear Co., Inc. Ignition lock. 3,665,738, 5-30-72, Cl. 70-211.
- Peshkov, Evgeny Viktorovich: *See—*
- Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Besedin, Leonid Nikolaevich; Zhurenko, Anna Timofeevna; Urvantsev, Leonid Mikhailovich; Scherbakov, Jury Dmitrievich; Yasyukevich, Boris Ivanovich; Demin, Anatoly Anisimovich; and Peshkov, Evgeny Viktorovich, 3,654,756.
- Pessiki, Anthony J.: *See—*
- Friedman, Maurice; Miller, Edward; and Pessiki, Anthony J., 3,649,877.
- Pessolano, Arsenio A.: *See—*
- Witzel, Bruce E.; Shen, Tsung-Ying; Graham, Patricia M.; Clark, Robert L.; and Pessolano, Arsenio A., 3,654,291.
- Pesson, Marcel, to Societe Anonyme dite: Laboratoire Roger Bellon. 2,3-Dihydro-1,4-benzoxazines. 3,681,330, 8-1-72, Cl. 260-244,00r.
- Pest, Jurgen, to General Electric Company. Circuit for supplying direct current to a telephone line. 3,649,769, 3-14-72, Cl. 179-77.
- Pesterfield, Enos C., to Ciba-Geigy Corporation. Compositions and method for reducing blood pressure with 2-phenyl-2-(1-naphthyl) acetamides. 3,689,672, 9-5-72, Cl. 424-324,000.
- Pesterfield, Enos C., Jr.: *See—*
- Gruenfeld, Norbert; and Pesterfield, Enos C., Jr., 3,678,169.
- Pestie, Jean-Pierre; and Belmas, Jean, to Compagnie Generale d'Electricite. Method of manufacturing semiconductor components. 3,635,772, 1-18-72, Cl. 148-187.
- Pestka, John A.: *See—*
- Andrews, Donald E.; Heck, Daniel C.; and Pestka, John A., 3,707,318.
- Wornke, Louis J.; and Pestka, John A., 3,701,373.
- Pestka, John A.; and Huggins, James A., to Illinois Tool Works Inc. Speculum. 3,650,266, 3-21-72, Cl. 128-17.
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- Pet Chemicals, Inc.: *See—*
- Coleman, William R.; and Duffey, Thomas E., 3,670,078.
- Pet Incorporated: *See—*
- Amadon, Roger M.; and Boren, Morris G., 3,690,895.
- Petchell, Roy Kenneth: *See—*
- Lumb, Melvyn; Macey, Peter Edward; Wright, Richard Donald; and Petchell, Roy Kenneth, 3,705,841.
- Petcraft Industries Incorporated: *See—*
- Loscalzo, Nicholas R., 3,668,736.
- Pete, George H. Mine roof expansion shell assembly. 3,683,741, 8-15-72, Cl. 85-88,000.
- Petelski, Nick, to Peerless Mfg. Co. Apparatus for manipulating load supporting member. 3,664,529, 5-23-72, Cl. 214-140.
- Peter, Alfred O., to FMC Corporation. Truck tow conveyor switching apparatus. 3,699,895, 10-24-72, Cl. 104-88,000.
- Peter, Eberhard P. H.: *See—*
- Roth, Eberhard W.; Kroning, Hans-Joachim H. G.; and Peter, Eberhard P. H., 3,635,917.
- Peter, Erwin; and Oswald, Peter, to Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft. Mounting arrangement for metal fittings on profile frame members, walls, plates and the like. 3,684,229, 8-15-72, Cl. 248-223,000.
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- Peter, Fritz, to Hunt, Rodney, Company. Apparatus for wet processing a continuous length of moving material. 3,656,325, 4-18-72, Cl. 68-3.
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- Peter, Heinrich: *See—*
- Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Menard, Enrico; Mueller, Johannes; and Peter, Heinrich, 3,632,810.
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- Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,646,023.
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- Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Hueller, Johannes; and Peter, Heinrich, 3,682,903.
- Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,686,172.
- Bosshardt, Rolf; Fechtig, Bruno; Mueller, Johannes; Peter, Heinrich; and Bickel, Hans, 3,706,746.
- Peter, James: *See—*
- James, Peter; Brennan, Martin J.; and Kappes, Ben E. (said Brennan and Kappes assors. to said), 3,647,973.
- Peter, Joseph E.: *See—*
- Inglis, Leslie R.; and Peter, Joseph E., 3,654,768.
- Peter, Kurt; Huhne, Gerd; Kauer, Harald; Overlach, Knud; and Schlicker, Volker, to Pietzsch, Ludwig. Overload safety device for jib cranes. 3,638,212, 1-25-72, Cl. 340-267.
- Peter, Lothar: *See—*
- Peter, Oskar E.; and Peter, Lothar, 3,679,247.
- Peter, Lothar, to Peter, Oskar E. Hub-to-shaft connection. 3,656,785, 4-18-72, Cl. 287-52,060.
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- Peter, Oskar E.; and Peter, Lothar (said Peter, Lothar assor. to said), 3,679,247.
- Peter, Oskar E.; and Peter, Lothar, said Peter, Lothar assor. to said Peter, Oskar E. Hub-to-shaft clamp connection assembly. 3,679,247, 7-25-72, Cl. 287-52,060.
- Peter, Peter, to Aktiengesellschaft Brown, Boveri & Cie. Pole coil structure for dynamo-electric machine. 3,681,634, 8-1-72, Cl. 310-218,000.
- Peter, Richard: *See—*
- Angliker, Hans-Joerg; and Peter, Richard, 3,632,565.
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- Peter, Richard; and Gallacchi, Erico, to Ciba Limited. Water-insoluble dyestuffs. 3,637,708, 1-25-72, Cl. 260-282.
- Peter, Richard; Angliker, Hans-Joerg; and Della Casa, Angelo, to Ciba Limited. Anthraquinoid dyestuffs. 3,663,577, 5-16-72, Cl. 260-377.
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- Peter, Strong & Company, Inc.: *See—*
- Hill, William H., 3,652,420.
- Hill, William H., 3,704,227.
- Peteri, Dezso: *See—*
- Scherm, Arthur; and Peteri, Dezso, 3,705,194.
- Petering, John L.: *See—*
- Johnson, Glenn B.; and Petering, John L., 3,698,200.
- Peterli, Hans Jakob: *See—*
- Kirchmayr, Audolph; Peterli, Hans Jakob; and Heller, Hansjorg, 3,706,700.
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- Peters, Alfred; and Morelos, Salvador. Superfatted soap. 3,694,367, 9-26-72, Cl. 252-121,000.
- Peters, Allen A. Apparatus and method for launching and recovering a small boat. 3,671,986, 6-27-72, Cl. 9-39,000.
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- Russell, Linus E., 3,636,288.
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- Peters, Arnis E., to Micro 8 Company, mesne. Microfilm viewer. 3,700,321, 10-24-72, Cl. 353-26,000.
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- Peters, Charles Michael Dansey. Energy supply apparatus and method for a building. 3,678,284, 7-18-72, Cl. 290-1.000.
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- Peters, Ernest; and Mc Elroy, Roderick, to Canadian Patents and Development Limited. Chlorination of iron sulfides to produce ferric chloride and subsequent oxidation to produce iron oxide and chlorine. 3,652,219, 3-28-72, Cl. 23-200.
- Peters, Eugene R.: See—
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- Peters, Eugene R.; and Rutherford, Walter H., to TRW Inc. Floating glass plug for stopcock assembly. 3,658,290, 4-25-72, Cl. 251-215.
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- Peters, Homer D. F., to Owens-Illinois, Inc. Liquid flow proportioning system for metering into a glass batch. 3,705,792, 12-12-72, Cl. 65-134.000.
- Peters, Ignatius G., to United States of America, Air Force. Mixed field radiation dosimeter materials of amine salts of organic acids. 3,673,107, 6-27-72, Cl. 252-408.000.
- Peters, Jack; Williams, James E.; Murray, Ross; Stoliker, Lawrence F.; and Carlin, Patrick T. Board game apparatus. 3,658,337, 4-25-72, Cl. 273-134.
- Peters, James G. Carrying device. 3,675,834, 7-11-72, Cl. 224-45.000.
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- Peters, Karl-Heinz; and Neeff, Rutger, to Farbenfabriken Bayer Aktiengesellschaft. Anthraquinone dyestuffs. 3,699,126, 10-17-72, Cl. 260-329.200.
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- Peters, Lovick A., Jr. Quick opening and closing line clamp. 3,634,912, 1-18-72, Cl. 24-132.
- Peters, Merrit A.: See—
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- Peters, Rudolph W. Pin cutter. 3,670,411, 6-20-72, Cl. 30-180.000.
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- Peters, Theodore F., to General Motors Corporation. Seat belt retractor. 3,695,545, 10-3-72, Cl. 242-107.400.
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- Peters, Thomas E., to Pope & Talbot, Inc. Manufacture of products from comminuted wood. 3,649,397, 3-14-72, Cl. 156-62.2.
- Peters, Till J. N.; and Powers, John A., to Sylvania Electric Products, Inc. Process for producing sodium tungsten bronzes. 3,652,462, 3-28-72, Cl. 252-518.
- Peters, Timothy Victor. Processes of producing stable filaments of linear polyurethanes. 3,699,205, 10-17-72, Cl. 264-210.00f.
- Peters, Virgil N. Method of making nylon monofilament sinking fishing leader. 3,676,237, 7-11-72, Cl. 154-2.000.
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- Petersen, Alex., to Danfoss A/S. Toothed wheel machine. 3,690,792, 9-12-72, Cl. 418-61.000.
- Petersen, Arne J.; and Matsuyama, George, to Beckman Instruments, Inc. Solid state glass electrode. 3,649,506, 3-14-72, Cl. 204-195.
- Petersen, Christian C., to Polaroid Corporation. Tape recording apparatus and system having a very thin cassette. 3,691,312, 9-12-72, Cl. 179-100.20z.
- Petersen, Earl L. Adjustable easel. 3,682,433, 8-8-72, Cl. 248-459.000.
- Petersen, George R., to Bowman, P. H., Company, Inc. Method of fabricating wood trusses. 3,673,671, 7-4-72, Cl. 29-432.200.
- Petersen, Gerd Hugo. Apparatus for agglomerating and precipitating suspended matter out of gases and vapours and/or for absorbing gas components. 3,653,187, 4-4-72, Cl. 55-230.
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- Petersen, Harro; and Reuther, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of ureidomethylphosphonium salts. 3,658,804, 4-25-72, Cl. 260-244.
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- Petersen, John Valdemar Brammer, to Niels Clauson-Kaas. Substituted quaternary pyridinium salts and method of manufacturing them. 3,658,826, 4-25-72, Cl. 260-294.9.
- Petersen, John Valdemar Brammer; and Clauson-Kaas, Niels, to Geigy Chemical Corporation. Method for preparing 3-hydroxy-2-imino-1 (2H)-pyridine-sulfonic acid monohydrate. 3,663,555, 5-16-72, Cl. 260-294.8.
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- Petersen, Jorgen Hartvig, to Danfoss A/S. Rotary seal, particularly for oil pumps. 3,655,205, 4-11-72, Cl. 277-87.

- Petersen, Jorgen Hartvig; and Sturlason, Leif Viggo, to Danfoss A/S. Atomizing nozzle, particularly for oil-burners. 3,669,419, 6-13-72, Cl. 239-544.000.
- Petersen, Jorgen Hartvig; and Madsen, Ingvar Mosby, to Danfoss A/S. Liquid pump, particularly a fuel-oil pump. 3,685,927, 8-22-72, Cl. 418-15.000.
- Petersen, Jorgen Hartvig; and Madsen, Ingvar Mosby, to Danfoss A/S. Pressure-regulating and cut-off valve for fuel-oil pumps. 3,687,154, 8-29-72, Cl. 137-116.000.
- Petersen, Niel R., to MTS Systems Corporation. Servovalve with accumulator means on drain cavities. 3,680,594, 8-1-72, Cl. 137-625.690.
- Petersen, Niel R., to MTS Systems Corporation. Four square test device with torque stabilization. 3,690,168, 9-12-72, Cl. 73-162.000.
- Petersen, Otto: See—
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- Petersen, Paul S.: See—
Novak, Ronald D.; and Petersen, Paul S., 3,691,900.
- Petersen, Paul S., to Sports Technology, Inc. Heel binding. 3,659,866, 5-2-72, Cl. 280-11.35.
- Petersen, Povl Viggo; and Ammitzbohl, Thorkil, to Kefalas A/S. α -Isomer of the decanoic acid ester of 10-[3-(4-hydroxyethyl-1-piperazinyl)propylidene]-2-trifluoromethyl thioxanthene, acid addition salts thereof, method of use and compositions. 3,681,346, 8-1-72, Cl. 260-240.0tc.
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Bertolacini, Ralph J.; and Petersen, Richard D., 3,707,460.
- Petersen, Richard D.; and Kozinski, Allen A., to Standard Oil Company (Indiana). Platinum reforming with a mordenite containing support using two reactors. 3,664,949, 5-23-72, Cl. 208-65.
- Petersen, Richard E.: See—
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Liebe, Werner; Petersen, Siegfried; and von Konig, Anita, 3,671,242.
- Petersen, Svend Aage: See—
Genson, Samuel Richard; Petersen, Svend Aage; and Currier, Robert Lee, 3,695,523.
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- Petersen, Ulrich; Von Chiari, Ernst; and Brusch, Wilhelm, to Mannesmann Aktiengesellschaft. Method for producing seamless tubes with small diameters. 3,661,005, 5-9-72, Cl. 72-206.
- Petersen, Ulrich; and Grandin, Friedrich-Hans, to Mannesmann Aktiengesellschaft. Method of rolling hollow stock. 3,673,836, 7-4-72, Cl. 72-78.000.
- Petersen, Ulrich, to Mannesmann Aktiengesellschaft. Continuous casting machine. 3,700,027, 10-24-72, Cl. 164-282.000.
- Petersen, Victor, to General Motors Corporation. Cylinder head gasket assembly. 3,664,676, 5-23-72, Cl. 277-166.000.
- Petersen, Walter A., to Tektronix, Inc. Graphic display system. 3,637,997, 1-25-72, Cl. 235-92.
- Petersen, Walter A., to International Nickel Company, Inc., The. Welding electrode for joining copper-nickel alloys. 3,686,027, 8-22-72, Cl. 117-205.000.
- Petersen, William H., to Shell Oil Company. Method and apparatus for connecting flowlines to underwater wellheads. 3,695,350, 10-3-72, Cl. 166-500.
- Petersen, Adolph A., III: See—
Richardson, Dean E.; Petersen, Adolph A., III; and Brady, Harold P., Jr., 3,701,742.
- Petersen, Adolphe C. Compound reaction propulsion means with multiple thrust. 3,643,439, 2-22-72, Cl. 60-225.
- Petersen, Adolphe C. Aircraft structure unit and wing structure. 3,662,974, 5-16-72, Cl. 244-46.
- Petersen, Adolphe C. Generating systems and methods. 3,706,288, 12-19-72, Cl. 110-10.000.
- Petersen, Anders A., to Harding Brothers, Inc. Adjustment for tool holders. 3,641,850, 2-15-72, Cl. 82-36.
- Petersen, Anders Adolf: See—
Parsons, Hubert J.; and Petersen, Anders Adolf, 3,656,772.
- Peterson, Arnold E., to Peterson Baby Products. Reclining car seat. 3,669,492, 6-13-72, Cl. 297-253.000.
- Peterson, Arnold Ivanovich: See—
Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov Nikolai Nikolaevich; Purnalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and Rits, Leonid Borisovich, 3,683,683.
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Peterson, Arnold E., 3,669,492.
- Peterson, Billy L. Route changing device especially for a supported type monorail system. 3,635,166, 1-18-72, Cl. 104-130.
- Peterson, C. Lynn; and Peterson, Clarence John, to Peterson Filters & Engineering Company. Filter assembly with filtrate flow control and control components. 3,659,716, 5-2-72, Cl. 210-247.
- Peterson, Carl, to Foster-Miller Associates, Inc. Trencher-scraper machine. 3,690,023, 9-12-72, Cl. 37-90.000.
- Peterson, Carl A. Apparatus and method for injection and dissemination of dry fly ash in mine voids. 3,684,022, 8-15-72, Cl. 169-2.00r.
- Peterson, Carl G.: See—
Homstead, Robert H.; Peterson, Carl G.; and Gomez, Anthony, 3,653,569.
- Peterson, Carl G., Co.: See—
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- Peterson, Carl L., to GTE Sylvania Incorporated. High pressure electric discharge lamp. 3,706,898, 12-19-72, Cl. 313-197.000.
- Peterson, Carlton G., to Lockheed Aircraft Corporation. Foldable load bearing mechanism and actuating device. 3,654,811, 4-11-72, Cl. 74-101.
- Peterson, Charles L., to Uarco Incorporated. Burstur with interrupted drive. 3,672,551, 6-27-72, Cl. 225-100.000.
- Peterson, Clarence John: See—
Peterson, C. Lynn; and Peterson, Clarence John, 3,659,716.
- Peterson, David D., to General Electric Company. Particle track etching method. 3,673,017, 6-27-72, Cl. 156-7.000.
- Peterson, David L.; and Cole, Clifford M. Apparatus for separating an oil slick from a large body of water. 3,661,263, 5-9-72, Cl. 210-242.
- Peterson, David L.; and Cole, Clifford M. Log boom system for sweeping oil slicks from a large body of water. 3,661,264, 5-9-72, Cl. 210-242.
- Peterson, David W., to General Motors Corporation. Self-purging lubricant reservoir. 3,662,858, 5-16-72, Cl. 184-103.00r.
- Peterson, Dean M., to Honeywell Inc. Dual slide method and apparatus to provide simultaneous automatic cuing and showing of slides. 3,635,550, 1-18-72, Cl. 353-21.
- Peterson, Donald E.: See—
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- Peterson, Donald J., to Procter & Gamble Company, The. Process for the preparation of olefins using carbonyl compounds and silyl-substituted organometallic compounds. 3,657,373, 4-18-72, Cl. 260-677.
- Peterson, Donald L.: See—
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- Peterson, Donald W., to General Motors Corporation. Windshield wiper blade having horizontal path. 3,688,334, 9-5-72, Cl. 15-250.210.
- Peterson, Donald William, to RCA Corporation. Combined VHF-UHF dipole antenna array. 3,653,056, 3-28-72, Cl. 343-795.
- Peterson, Donovan F. Direct current motor having improved commutation means. 3,678,359, 7-18-72, Cl. 318-254.000.
- Peterson, Earl A.: See—
Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,648,858.
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- Peterson, Earl A. Positive engagement clutch. 3,701,403, 10-31-72, Cl. 192-38.000.
- Peterson, Earl C. Sewage treatment. 3,647,667, 3-7-72, Cl. 204-299.
- Peterson, Earl C. System for prevention of frost heaves in highways. 3,649,513, 3-14-72, Cl. 204-299.
- Peterson, Edward C.: See—
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- Peterson, Edwin F. Corebox and seal. 3,661,197, 5-9-72, Cl. 164-228.000.
- Peterson, Edwin R. Electric power takeoff system. 3,660,671, 5-2-72, Cl. 290-1.

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Peterson Filters & Engineering Company: *See*—
Peterson, C. Lynn; and Peterson, Clarence John, 3,659,716.

Peterson, Francis C., to Hager, C., & Sons Hinge Manufacturing Company. Hinge, 3,657,766, 4-25-72, Cl. 16-182.000.

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Peterson, Francis C., to Hager, C., & Sons Hinge Manufacturing Company. Closet construction, 3,702,521, 11-14-72, Cl. 52-36.000.

Peterson, Fred D., to Peterson Products of San Mateo Inc. Jet engine cowl cover, 3,646,980, 3-7-72, Cl. 150-52.

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Peterson, Gary E., to Frey, Gerald J., mesne. Automatic slide-changing mechanism, 3,632,199, 1-4-72, Cl. 353-103.

Peterson, George Earl: *See*—
Glass, Alastair Malcolm; and Peterson, George Earl, 3,700,912.
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Peterson, Gerald D. Internal vent for window sash, 3,636,660, 1-25-72, Cl. 49-408.

Peterson, Gerald H. Impact kinetic energy absorber with automatic reset, 3,659,835, 5-2-72, Cl. 267-136.

Peterson, Gerald Henry, to Bell Telephone Laboratories, Incorporated. Coin telephone non-coin service, 3,676,597, 7-11-72, Cl. 179-6.30r.

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Peterson, Henry W.: *See*—
Wyzalek, Leonard J.; and Peterson, Henry W., 3,698,476.

Peterson, Hold Le Roy: *See*—
Ball, Henry; and Peterson, Hold Le Roy, 3,647,952.

Peterson, James W.; and Tempka, John A., to Motorola, Inc. Data transferring system utilizing a monitor channel and logic circuitry to assure secure data communication, 3,696,210, 10-3-72, Cl. 179-15.0bf.

Peterson, James W.; and Tempka, John A., to Motorola, Inc. Data transferring system utilizing frame and bit timing recovery technique, 3,702,379, 11-7-72, Cl. 179-15.0bs.

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Grotheer, Morris P.; and Peterson, John A., 3,632,444.

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Peterson, John A.; and Ross, Albert H., to Hooker Chemical Corporation. Sodium chlorate compositions of reduced fire hazard containing an alkali metal silicate fire retardant, 3,645,895, 2-29-72, Cl. 252-8.1.

Peterson, John A., to Hooker Chemical Corporation. Production of phosphates, 3,655,335, 4-11-72, Cl. 23-107.

Peterson, John B., to Grace, W. R., & Co. Cold storage temperature monitor, 3,701,282, 10-31-72, Cl. 73-358.000.

Peterson, John E.: *See*—
Ringel, Samuel Morris; Roemer, Sidney; Gutt, Ann Lee; and Peterson, John E., 3,651,216.

Peterson, John L., to Teletype Corporation. Variable length storing device, 3,691,536, 9-12-72, Cl. 340-173.0rc.

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Girard, Peter F.; and Peterson, John M., 3,675,582.

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Hall, William Cornelius; and Peterson, John Merriam, 3,645,916.

Peterson, John O. H., to Scott Paper Company. Photographic medium containing an aliphatic amine stabilizer, 3,637,390, 1-25-72, Cl. 96-90.

Peterson, Joseph R.: *See*—
Baybarz, Russell D.; and Peterson, Joseph R., 3,640,888.

Peterson, Julius T.: *See*—
Reque, Albert K.; and Peterson, Julius T., 3,667,259.

Peterson, Laurence I.; and Sauro, Louisa J., to Dow Chemical Company. The Copolymers of β -lactones and N-phenethylaziridines, 3,642,717, 2-15-72, Cl. 260-78.3.

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Peterson, Laurence I., to Dow Chemical Company. The Preparation of ynamines and phenylacetamides, 3,657,342, 4-18-72, Cl. 260-558.

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Peterson, Lawrence M., to Barber-Colman Company. Butterfly damper, 3,669,152, 6-13-72, Cl. 138-46.000.

Peterson, Le Roy L., to Kimberly-Clark Corporation. Papermaking drainage fabric and stock inlet combination for producing even edged paper web, 3,652,390, 3-28-72, Cl. 162-303.

Peterson, Leslie D., to Raven Industries, Inc. Spinning top and target game, 3,680,864, 8-1-72, Cl. 273-110.000.

Peterson, Leslie R., to DeZurik Corporation. Valve seat retaining means and method of assembly and disassembly, 3,656,714, 4-18-72, Cl. 251-360.

Peterson, Lowell E.; and Elmquist, Lyle F., to General Mills, Inc. Method of treating cellulose sponges and resulting products, 3,649,331, 3-14-72, Cl. 117-37.

Peterson, Martin E. Integral interlocking weather stripping for doors, door jams and thresholds, 3,634,962, 1-18-72, Cl. 49-383.

Peterson, Marvin A.; and Flint, Gerald A., to Beatrice Foods Co. Flavor-stable mustard, 3,652,297, 3-28-72, Cl. 99-140.

Peterson, Marvin A., to General Electric Company. Process for producing polyamide coating materials by endcapping, 3,652,500, 3-28-72, Cl. 260-65.

Peterson, Marvin A., to General Electric Company. Process for producing polyamide coating materials, 3,663,510, 5-16-72, Cl. 260-65.

Peterson, Marvin L., to Du Pont de Nemours, E. I., and Company. Gelled acidic compositions, 3,635,835, 1-18-72, Cl. 252-315.

Peterson, Marvin L., to Du Pont de Nemours, E. I., and Company. Manufacture of acrylamide-based polymers in liquid ammonia, 3,681,215, 8-1-72, Cl. 204-159.230.

Peterson, Max E., to Collins Radio Company. Proportional digital control for radio frequency synthesizers, 3,665,323, 5-23-72, Cl. 328-14.000.

Peterson, Neil W. Eyelet for track driven vehicle, 3,690,741, 9-12-72, Cl. 305-38.000.

Peterson, Noel C.: *See*—
Brooks, Charles G.; and Peterson, Noel C., 3,638,226.

Peterson, Norman L.: *See*—
Haker, Edwin J.; and Peterson, Norman L., 3,693,838.

Peterson, Olav, to Northern Electric Company Limited. Voltage controlled attenuator, 3,663,900, 5-16-72, Cl. 333-81.00r.

Peterson, Oliver H., to Salisbury Laboratories. Method of controlling odor, 3,706,663, 12-19-72, Cl. 210-64.000.

Peterson, Orrin Martel: *See*—
Hardy, Paul Wilson; and Peterson, Orrin Martel, 3,689,611.

Peterson, Paul E.: *See*—
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Peterson, Philip R.; Wind, Robert H.; and Mark, Douglas E., to General Motors Corporation. Anti-lock brake control with sensor monitoring circuit, 3,680,923, 8-1-72, Cl. 303-21.0af.

Peterson Products of San Mateo Inc.: *See*—
Peterson, Fred D., 3,646,980.

Peterson, Ralph, to United States of America, Army. Base ejecting projectile, 3,677,182, 7-18-72, Cl. 102-66.000.

Peterson, Ralph M., to Peterson-Kruse, Inc. Power operated can opener, 3,698,084, 10-17-72, Cl. 30-4.00r.

Peterson, Reeve D., to United States of America, Navy. Ground station system for retransmitting satellite facsimile signals over digital data links, 3,678,388, 7-18-72, Cl. 325-4.000.

Peterson, Rehn Claus; St. Denis, Robert Alexander; and Steckel, Douglas Thomas, to Harris-Intertype Corporation. Stuffing machine for assembling newspapers or the like, 3,663,008, 5-16-72, Cl. 270-55.

Peterson, Rex W. Valve shock dampener, 3,695,241, 10-3-72, Cl. 123-90.450.

Peterson, Richard G., to United States of America, Air Force. Explosion tank collector plate, 3,656,662, 4-18-72, Cl. 222-386.5.

Peterson, Richard H.; Finch, Robert A.; and Oltman, Bruce A. Electronic player system for electrically operated musical instruments, 3,683,096, 8-8-72, Cl. 84-115.000.

Peterson, Richard H. Electrically operated rhythm instrument, 3,688,627, 9-5-72, Cl. 84-171.000.

Peterson, Richard J.: *See*—
Mosier, John L.; and Peterson, Richard J., 3,680,032.

Peterson, Robert A.: *See*—
Davies, James M.; Hackmann, Larry G.; Peterson, Robert A.; Smith, Roger M.; and Wirt, Leon A., 3,659,654.

Peterson, Robert A., to Caterpillar Tractor Company. Mounting arrangement for bulldozer blades, 3,631,930, 1-4-72, Cl. 172-804.

Peterson, Robert A., to Caterpillar Tractor Company. Loader with improved stability and increased reach, 3,658,202, 4-25-72, Cl. 214-770.000.

Peterson, Robert A.; Grooss, Frank A.; Morgan, William C.; Stedman, Robert N.; and Teasdale, Max J., to Caterpillar Tractor Company. Side-by-side tractor combination, 3,661,214, 5-9-72, Cl. 172-801.

Peterson, Robert A., to Caterpillar Tractor Company. Method of operating a scraper having a manipulatable apron, 3,707,048, 12-26-72, Cl. 37-126.0ab.

Peterson, Robert L.; and Wieman, Paul R., to Mattel, Inc. Musical instrument with variable amplitude, 3,657,459, 4-18-72, Cl. 84-1.01.

Peterson, Robert S., to Westinghouse Electric Corporation. Synchronous motor field regulator control, 3,686,551, 8-22-72, Cl. 318-174.000.

Peterson, Robert S., to Westinghouse Electric Corporation. Synchronous motor field regulator control, 3,686,552, 8-22-72, Cl. 318-174.000.

Peterson, Robert W.: *See*—
Cooper, Lawrence E.; and Peterson, Robert W., 3,651,436.
Miller, James R., III; and Peterson, Robert W., 3,633,402.

Peterson, Rodney E.: *See*—
Carr, Norman L.; and Peterson, Rodney E., 3,646,106.

Peterson, Roger L., to Dynatherm Corporation. Water based fire protective composition applied to electrical cable, 3,642,531, 2-15-72, Cl. 117-218.

Peterson, Rudolph A.: *See*—
Walker, Lloyd A.; and Peterson, Rudolph A., 3,663,148.

Peterson, Rudolph G.: *See*—
Abrams, Paul S.; and Peterson, Rudolph G., 3,653,596.
Abrams, Paul S.; and Peterson, Rudolph G., 3,695,216.

Peterson, Russell I., Jr.; and Sauter, William E., to Cumberland Engineering Company Inc. Incinerator system, 3,635,175, 1-18-72, Cl. 110-8.

Peterson, Russell I., Jr., to Cumberland Engineering Company, Inc. Material cutting machine and sound absorbing hood therefor, 3,643,880, 2-22-72, Cl. 241-100.

Peterson, Scren E. Potato-seed cutting machines, 3,688,828, 9-5-72, Cl. 146-164.000.

Peterson, Sven Torsten Lennart, to Lumalamp Aktiebolag. High density tungsten-rhenium-nickel alloys and articles, 3,638,293, 2-1-72, Cl. 29-182.

Peterson, Thomas D.; and Crosser, Ralph W., Jr., to Kennecott Copper Corporation. Apparatus for uncoupling railroad cars, 3,682,325, 8-8-72, Cl. 213-211.000.

Peterson, Victor S.; and Gnecco, Arthur J. Thaw sensor, 3,696,679, 10-10-72, Cl. 73-358.000.

Peterson, Weldon H.: *See*—
Twilley, Ian C.; Russell, William N.; and Peterson, Weldon H., 3,704,100.

Peterson, Wendell C. Ultrasonic cleaner and surgical instrument case, 3,640,295, 2-8-72, Cl. 134-159.

Peterson, Wesley D.; and Southworth, Donovan A., to Collins Radio Company. Rugged, narrow bandwidth mechanical filter, 3,699,483, 10-17-72, Cl. 333-71.000.

Peterson, William H., to Pullman Incorporated. Pressure relief means for a hydraulic cushion, 3,633,763, 1-11-72, Cl. 213-43.

Peterson, William H., to Pullman Incorporated. Railroad car speed control mechanism, 3,660,653, 5-2-72, Cl. 246-182.

Peterson, William H., to Pullman Incorporated. Cushioning arrangement for railway car, 3,679,068, 7-25-72, Cl. 213-8.000.

Peterson, William H., to Pullman Incorporated. Vehicle speed control device actuating mechanism, 3,707,124, 12-26-72, Cl. 104-26.00r.

Peterson, William R., Jr.: *See*—
Sollott, Gilbert P.; and Peterson, William R., Jr., 3,673,015.

Peterson-Kruse, Inc.: *See*—
Peterson, Ralph M., 3,698,084.

Peterson, John Soren: *See*—
Hansen, Knut Bonde; and Peterson, John Soren, 3,659,940.

Peterson, Nils Gustav Tage. Device for use in painting a columnar structure, 3,633,539, 1-11-72, Cl. 118-208.

Peterson, Rolf: *See*—
Larkfeldt, Birger; and Peterson, Rolf, 3,693,530.

Peterson, Curt Y. G.; and Widolf, Goran A. Splint for the treatment of fractured legs, 3,661,150, 5-9-72, Cl. 128-85.

Petfoods Limited: *See*—
Hornsby, John M.; and Wood, William G., 3,650,387.

Peth, Horst: *See*—
Illtschko, Gerhard; and Peth, Horst, 3,646,254.

Petigara, Ramesh: *See*—
Yale, Harry Louis; and Petigara, Ramesh, 3,676,445.

Petigara, Remesh: *See*—
Yale, Harry Louis; and Petigara, Remesh, 3,702,852.

Petit, George S.: *See*—
Wright, Ralph R.; Petit, George S.; and Wright, Calvin C., 3,666,529.

Petit, George S.; and Wright, Ralph R., to United States of America, Atomic Energy Commission. Process for plating uranium with metal, 3,668,084, 6-6-72, Cl. 204-1.500.

Petit, George S.; and Kienberger, Charles A., to United States of America, Atomic Energy Commission. Method for preparing stable actinide peroxide sols, 3,697,441, 10-10-72, Cl. 252-301.10s.

Petit, Gerard; and Bricard, Pierre, to Centre National d'Etudes Spatiales. Sampling methods and devices, more particularly for analog-digital conversions, 3,706,986, 12-19-72, Cl. 340-347.0ad.

Petit, Maurice; and Thomas, Georges, to Ets J. J. Carnaud & Forges de Basse-Indre. Sterilisation of tins, 3,704,140, 11-28-72, Cl. 99-214.000.

Petit, Robert, to Societe Nouvelle Spidem. Cooling apparatus for continuous casting wheel, 3,650,316, 3-21-72, Cl. 164-278.

Petit, Robert, to Societe Nouvelle Spidem. Apparatus for guiding a product undergoing transformation, and the use thereof in a wire mill, 3,651,674, 3-28-72, Cl. 72-5.

Petit, Robert, to Societe Nouvelle Spidem. Cooling device for a continuous casting wheel, 3,667,537, 6-6-72, Cl. 164-278.000.

Petit, Robert. Continuous casting machine with controlled extractor movement, 3,695,342, 10-3-72, Cl. 164-268.000.

Petit, Robert F.; and Wesnoskie, James F., to Teledyne, Inc., mesne. Work table having multiposition extension board, 3,672,312, 6-27-72, Cl. 108-69.000.

Petit, Roland; Louise, Jean; Parent, Jean-Claude; and Hay, Leon, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Method of purifying gaseous mixtures, 3,689,212, 9-5-72, Cl. 423-239.000.

Petite, Anthony M.; and Thornley, Clive E., to Ciba-Geigy Corporation. Dyeing of polycarbonamides of bis (paraamino-cyclohexyl) methane and dodecanedioic acid with anionic dyes, 3,700,405, 10-24-72, Cl. 8-173.000.

Petitjean, Elie Raymond, to Comptoir de la Filtration Cofi. Tubular filter with resilient deformable support, 3,633,753, 1-11-72, Cl. 210-356.

Petitjean, Robert J.: *See*—
Christensen, Paul M.; and Petitjean, Robert J., 3,639,715.

Petix, Edward. Replaceable electrochemical cell module, 3,682,705, 8-8-72, Cl. 136-86.00r.

Petix, Robert F.; Aquino, Joseph A.; and Aquino, Frank J., 25% to Holsen, William C. Warehousing pallet, 3,650,224, 3-21-72, Cl. 108-51.

Petkov, Milko Ivanov: *See*—
Vitkov, Eil Slavchev; Petkov, Milko Ivanov; and Atanasov, Gueorgui Stoylov, 3,704,759.

Petkovsek, Richard J.: *See*—
Trefzger, Edwin W.; Crimmins, Bruce; Plunkett, Raymond A.; Petkovsek, Richard J.; and Finster, Leslie Phillip, 3,637,164.

Petkunas, John A.: *See*—
Kukla, Frank A.; Kalmar, Harold B.; and Petkunas, John A., 3,668,616.

Petner, Eugene J.; Baumann, Erwin; and Cornell, John A., to Williams Gold Refining Co. Inc. Composition for the production of dental crowns and industrial objects, 3,632,677, 1-4-72, Cl. 260-878.

Petocz, Lujza: *See*—
Rakoczi, Jozsef; Mikite, Gyula; Petocz, Lujza; Fischer, Janos; Grasser, Katalin; and Kosoczy, Ibolya, 3,641,039.

Petrack, Barbara: *See*—
Greenhard, Paul; and Petrack, Barbara, 3,639,622.

Petraneck, David J.: *See*—
Jones, Daniel F.; Petranek, David J.; and Rosin, Harlan J., 3,653,223.

Petrasek, Donald W.; Signorelli, Robert A.; Weeton, John W.; and Beremand, Gerald B., to United States of America, National Aeronautics and Space Administration. Method of making fiber composites, 3,653,882, 4-4-72, Cl. 75-208.

Petree, Edwyn H., to United States of America, Army, mesne. Apparatus for inserting terminals in an apertured plate, 3,667,103, 6-6-72, Cl. 29-203.00v.

Petree, Harris E., to Ciba-Geigy Corporation. Stoichiometric regulation in chemical reactions involving a highly reactive acid chloride, anhydride or a derivative thereof, 3,641,025, 2-8-72, Cl. 260-249.5.

Petree, Harris E., to Ciba-Geigy Corporation. Suppression of tris(alkylamino)-s-triazine formation in the production of chloro-bis(alkylamino)-s-triazines through the use of additional cyanuric chloride, 3,681,337, 8-1-72, Cl. 260-249.800.

Petree, Harris E., to Ciba-Geigy Corporation. Suppression of tris(alkylamino)-s-triazine formation in the production of chloro-bis(alkylamino)-s-triazines through the addition of formaldehyde, 3,705,156, 12-5-72, Cl. 260-249.800.

Petrella, Robert G.: *See*—
Green, Harold A.; and Petrella, Robert G., 3,642,649.

Petrequin, Pierre: *See*—
Frenkel, Jean-Mathieu; Logerot, Jean-Marie; Petrequin, Pierre; Syre, Robert; and Weisz, Michel, 3,685,988.

Petres, Jacques: *See*—
Dufour, Jacques; Perroud, Paul H.; Petres, Jacques; and Rebiere, Jean, 3,691,840.

Petrey, Ernest Q., Jr., to Drew Chemical Corporation. Coolant system and corrosion inhibitor and method of use, 3,699,047, 10-17-72, Cl. 252-175.000.

Petrey, Ernest Quentin, Jr.; and Werner, Ronald M., to Drew Chemical Corporation. Corrosion inhibitor composition containing a glycine, chelating agent, phosphoric or boric acid ester, and a water soluble divalent metal salt, 3,699,052, 10-17-72, Cl. 252-39.000.

Petreycik, Michael G. Chord teaching device, 3,677,130, 7-18-72, Cl. 84-471.000.

Petri, Chris A., to Motorola, Inc. Horizontal deflection control means, 3,706,908, 12-19-72, Cl. 315-27.0sr.

Petri, Eckart: *See*—

Studer, Hans-Luzius; Petri, Eckart; Wurmstedt, Karl; and Haas, Jan Tomas, 3,704,828.
 Petri, George W.: See—
 Mc Laughlin, Bernard J.; Petri, George W.; and De Moor, Raymond J., 3,643,203.
 Petri, Jan, to Spheres, Inc. Process for casting acrylic spheres. 3,652,760, 3-28-72, Cl. 264-310.
 Petri, Nelli J. Means for securing an insert to a base piece. 3,698,748, 10-17-72, Cl. 287-20,300.
 Petri, Nello J., to Petri-Johnson, Inc. Means for securing an insert to a base piece. 3,707,303, 12-26-72, Cl. 287-20,300.
 Petri, Rolf: See—
 Reinhard, Hans; Petri, Rolf; and Beckerle, Wilhelm-Friedrich, 3,640,912.
 Petri, William Edward, Jr.; and Froese, Richard Joseph, to Cincinnati Gilbert Machine Tool Company, The. Index table control. 3,686,979, 8-29-72, Cl. 74-813,00c.
 Petri-Johnson, Inc.: See—
 Petri, Nello J., 3,707,303.
 Petriciani, John C.: See—
 Krezanoski, Joseph Z.; and Petriciani, John C., 3,645,284.
 Petrick, John T.; and Gray, Reginald I., to United States of America, Navy. R.F. immune firing circuit employing high impedance leads. 3,640,224, 2-8-72, Cl. 102-28.
 Petrick, Michael: See—
 France, David M.; and Petrick, Michael, 3,633,665.
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 Petricka, Gerald H.: See—
 Berglund, Neil C.; and Petricka, Gerald H., 3,691,947.
 Petrie, Andrew, to United States of America, Army. Directional ion anemometer. 3,706,938, 12-19-72, Cl. 324-33,000.
 Petrie, Warren A.: See—
 Dressel, Edwin J.; Petrie, Warren A.; Shaw, Clarence W.; Grinbergs, Janis; Isakson, John E.; and Adams, Martin C., 3,658,222.
 Petrie, William E. Tree stand. 3,655,156, 4-11-72, Cl. 248-48.
 Petrigalla, Andrew, to Smith, A. O., Corporation. Current sensing apparatus. 3,675,105, 7-4-72, Cl. 318-356,000.
 Petrik, Albert V. Vertical alignment gauge. 3,638,325, 2-1-72, Cl. 33-216.
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 Petrinjak, Emerick J.; and Grasinger, William J., to Westinghouse Electric Corporation. Method of making a coil bobbin. 3,644,156, 2-22-72, Cl. 156-90.
 Petro, James: See—
 Rively, Clair M.; and Petro, James, 3,701,880.
 Petro, James; and Rively, Clair M., to Westinghouse Electric Corporation. Method of decorating a glazed article utilizing a beam of corpuscular energy. 3,663,793, 5-16-72, Cl. 219-121.
 Petro, John D.; and Hodgson, Robert F., to Commercial Shearing & Stamping Company. Hydraulic control circuits and apparatus. 3,693,350, 9-26-72, Cl. 60-52,00r.
 Petro, Jozsef: See—
 Csuros, Zoltan; Petro, Jozsef; Mathe, Tibor; and Tungler, Antal, 3,654,111.
 Csuros, Zoltan; Petro, Jozsef; Tungler, Antal; Mathe, Tibor; and Bekassy, Sandor, 3,691,103.
 Petro, Victor P.: See—
 Wainer, Eugene; Petro, Victor P.; Fox, Robert D.; Shirey, John E.; and Smerillo, John A., 3,660,096.
 Petro-Tex Chemical Corporation: See—
 Arganbright, Robert P.; and Simpson, Mervin M., Jr., 3,658,932.
 Arganbright, Robert P., 3,660,509.
 Arganbright, Robert P., 3,697,613.
 Arganbright, Robert P., 3,702,827.
 Barone, Bruno J., 3,649,682.
 Bowman, William G., 3,634,503.
 Croce, Louis J.; and Bajars, Laimonis, 3,649,560.
 Croce, Louis J.; Bajars, Laimonis; and Gabliks, Maigonis, 3,655,805.
 Croce, Louis J.; and Bajars, Laimonis, 3,666,687.
 Croce, Louis J.; Bajars, Laimonis; and Gabliks, Maigonis, 3,670,042.
 Croce, Louis J.; and Barone, Bruno, 3,678,105.
 Dean, Johnny C.; and Colling, Philip M., 3,686,347.
 Friedrich, Heinz G., 3,669,877.
 Funkhouser, Terry D., 3,681,202.
 Kerr, Ralph O., 3,637,829.
 Koslosky, Frank, Jr., 3,666,684.
 Manning, Harold E., 3,671,606.
 Manning, Harold E.; Woskow, Marvin Z.; and Christmann, Harold F., 3,702,875.
 Nagel, Roger M., 3,699,090.
 Wehrman, Jesse, 3,636,057.
 Woerner, Rudolph C.; and Funkhouser, Terry D., 3,662,017.

Woerner, Rudolph C., 3,683,042.
 Petrocarbon Developments Limited: See—
 Harmens, Alexander, 3,666,415.
 Ruhemann, Martin Siegfried William; and Mercer, Stanley, 3,643,452.
 Petrocci, Alfonso N.: See—
 Adams, Phillip; and Petrocci, Alfonso N., 3,705,027.
 Merianos, John J.; Shay, Edward Griffin; Adams, Phillip; and Petrocci, Alfonso N., 3,663,620.
 Petrochemicals, Inc.: See—
 Jasnosh, John J., Jr., 3,690,931.
 Petrock, Kermit F.: See—
 Jones, Donald E.; and Petrock, Kermit F., 3,638,017.
 Petrocy, John; and De Stefano, Alfred. Self closing liquid dispenser. 3,637,118, 1-25-72, Cl. 222-517.
 Petroczky, Frank G. Hair combs. 3,669,130, 6-13-72, Cl. 132-138.
 Petroff, Robert J. Hydraulically controlled drill unit. 3,663,138, 5-16-72, Cl. 408-130.
 Petroff, Robert J. Lead-screw tapping head. 3,690,782, 9-12-72, Cl. 408-132,000.
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 Petrohilos, Harry G., to United Systems Corporation. Analog to digital converter with automatic calibration. 3,665,305, 5-23-72, Cl. 324-99,00d.
 Petrol Injection Limited: See—
 Jackson, Harold Ernest, 3,650,258.
 Jackson, Harold Ernest, 3,683,870.
 Jackson, Harold Ernest, 3,685,503.
 Jackson, Harold Ernest, 3,685,742.
 Jackson, Harold Ernest, 3,695,518.
 Petroleum Information Corporation: See—
 Lindley, Ralph H.; and Bickham, Richard E., 3,671,961.
 Petroleum Solids Control, Inc.: See—
 Sperry, Russell L., 3,654,164.
 Petrolite Corporation: See—
 Annand, Robert R.; Redmore, Derek; and Rushton, Brian M., 3,647,711.
 Annand, Robert R.; Redmore, Derek; and Rushton, Brian M., 3,669,612.
 Bellos, Thomas J., 3,661,784.
 Burns, William F.; and Martin, Robert B., 3,707,464.
 Cole, Ernest A.; Mayse, Weldon D.; and Watson, Frederick D., 3,701,723.
 Cole, Ernest A., Jr.; Watson, Frederick D.; and Mayse, Weldon D., 3,649,516.
 Godar, Richard L.; and Spanos, Theodore, III, 3,654,346.
 Heintzelman, William J.; and Naiman, Michael I., 3,699,154.
 Lissant, Kenneth J., 3,700,594.
 Lucas, Roy N., 3,661,746.
 Mange, Franklin E.; Buriks, Rudolf S.; and Quinlan, Patrick M., 3,657,145.
 May, Walter R.; Merrifield, Dudley Bruce; and Bsharah, Lewis, 3,666,841.
 Mayse, Weldon D.; and Watson, Frederick D., 3,672,127.
 McLaren, Robin A., 3,649,228.
 Redmore, Derek, 3,652,677.
 Redmore, Derek, 3,654,300.
 Redmore, Derek, 3,664,807.
 Redmore, Derek, 3,673,196.
 Redmore, Derek, 3,674,804.
 Redmore, Derek, 3,694,144.
 Redmore, Derek; and Oude Alink, Bernardus A., 3,697,221.
 Spanos, Theodore, III; and Godar, Richard L., 3,703,587.
 Turner, Delber W., 3,666,878.
 Turner, Delber W., 3,707,458.
 Unmuth, George Eugene; and Hopkins, Charles Howard, 3,632,540.
 Watson, Frederick D.; and Mayse, Weldon D., 3,632,495.
 Watson, Frederick D.; and Winslow, Joseph D., Jr., 3,649,500.
 Watson, Frederick D.; and Winslow, Joseph D., Jr., 3,672,511.
 Wiley, Robert A., 3,673,070.
 Wilson, Homer M., 3,639,876.
 Wilson, Homer M., 3,644,187.
 Wilson, Homer M., 3,661,750.
 Wilson, Homer M., 3,661,751.
 Woodson, Alfred Eugene, 3,654,170.
 Petrone, Joseph V. Organic polymer bonded tumbling chip. 3,684,466, 8-15-72, Cl. 51-298,000.
 Petronelli, Claudio; and Park, Gavin Muldrew. Safety closures. 3,669,294, 6-13-72, Cl. 215-9,000.
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Petroske, Robert P.; Artin, Robert L.; and Meyer, Donald R., to Oster, John, Manufacturing Co. Combination can opener and slicing shredding appliance. 3,635,270, 1-18-72, Cl. 146-92.
 Petroskey, Paul P. Float apparatus for bicycle. 3,640,239, 2-8-72, Cl. 115-27.
 Petrosky, Charles. Ring mounted defensive blade. 3,648,371, 3-14-72, Cl. 30-298.
 Petrou, William: See—
 Paoletta, Rocco E.; and Petrou, William, 3,643,350.
 Petrov, Gennady Nikolaevich; Lisochkin, Grigory Fedorovich; Shmagin, Valentin Parmenovich; and Shibanova, Olga Mikhailovna. Methods for the preparation of synthetic polymers. 3,664,989, 5-23-72, Cl. 260-82,1.
 Petrov, Georgy Nikolaevich: See—
 Lifshits, Viktor Senderovich; Grigoriev, Viktor Ivanovich; Petrov, Georgy Nikolaevich; and Papkov, Oleg Sergeevich, 3,684,856.
 Petrov, Ivan Yordanov, to Nipkiem. Driving axle for electric vehicles. 3,693,745, 9-26-72, Cl. 180-60,000.
 Petrov, Jury Mikhailovich: See—
 Voronin, Grigory Ivanovich; Vzorov, Mikhail Ivanovich; Karaski, Ilya Lvovich; Lyagushkin, Jury Dmitrievich; Pereplechikov, Leonid Yakovlevich; Khokhlova, Nina Dmitrievna; and Petrov, Jury Mikhailovich, 3,650,197.
 Petrov, Vitaly Ivanovich; Ivanov, Alexandr Nikolaevich; Olenin, Jury Leonidovich; Eller, Arnold Oskarovich; Butuzov, Anatoly Akimovich; Basin, Abram Moiseevich; Starobinsky, Vladimir Borisovich; Ratner, Efim Rafailovich; and Potapov, Oleg Fedorovich. Air-cushion maritime craft. 3,659,542, 5-2-72, Cl. 114-67.
 Petrov, Vladimir Konstantinovich: See—
 Rutes, Viktor Savilevich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballad, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evtsev, Dmitry Petrovich; Manokhin, Anatoly Ivanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosoichenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.
 Petrovic, Louis J.: See—
 Hebert, Richard A.; Moynihan, Daniel J.; Paul, Donald E.; Petrovic, Louis J.; Rubel, Peter A.; and Seferian, Ralph, 3,663,283.
 Petrovich, John P.: See—
 Tyssee, Donald A.; and Petrovich, John P., 3,635,951.
 Tyssee, Donald A.; and Petrovich, John P., 3,635,952.
 Petrow, Henry G.: See—
 Allen, Robert J.; and Petrow, Henry G., 3,669,749.
 Juda, Walter; Allen, Robert J.; and Petrow, Henry G., 3,640,774.
 Petrow, Valdimir: See—
 Ellis, Bernard; Petrow, Valdimir; and Stanway, David Neil, 3,641,008.
 Petrucci, Pasquale M.: See—
 Estelle, Weems E.; and Petrucci, Pasquale M., 3,654,439.
 Petrucci, Pasquale M.: See—
 Estelle, Weems E.; Angel, Henry R.; and Petrucci, Pasquale M., 3,657,725.
 Rapoza, Edward J.; Siegel, Maxwell E.; Estelle, Weems E.; Petrucci, Pasquale M.; Linarducci, Joseph S.; Hamma, John; and Montgomery, John, 3,706,499.
 Petrucco, Richard J.: See—
 Fau, Paul; and Petrucco, Richard J., 3,705,853.
 Petrusek, Victor. Receptacle having a cylindrical target opening in the cover portion and tethered ball. 3,685,827, 8-22-72, Cl. 273-98,000.
 Petruzzella, Nicholas L.: See—
 Amidon, Alan B.; Sankus, Joseph G.; Petruzzella, Nicholas L.; and Ewing, Joan R., 3,664,834.
 Petry, Henry Alfred; Rerecich, Francis; and Spangenberg, Gerhard, to Marotta Valve Corporation. Apparatus for controlling rolling mill. 3,648,496, 3-14-72, Cl. 72-16.
 Petry, John G.: See—
 Tormey, Robert M.; and Petry, John G., 3,666,053.
 Petry, John G., to Cochran, J. D., Manufacturing Company. Safety door for vehicle lift. 3,635,794, 1-18-72, Cl. 187-8,62.
 Petry, Robert C., to Rohm & Haas Company. Bis(difluoramino)alkyl substituted compounds an method of preparation. 3,700,708, 10-24-72, Cl. 260-453,0al.
 Petry, Robert J.: See—
 Corrigan, Gordon D.; Lee, Donald H.; Olsen, Howard E.; and Petry, Robert J., 3,695,121.
 Petry, Robert K.; and Shortway, Harry A., to Congoleum Industries, Inc. Decorative surface coverings. 3,674,611, 7-4-72, Cl. 161-63,000.
 Petry, Ronald G.: See—
 Edwards, Ralph W.; and Petry, Ronald G., 3,703,017.
 Petry, Stanton H.: See—
 Duve, John P.; and Petry, Stanton H., 3,706,690.

Petrzika, Theodor; Hofmann, Albert; Schenk, Hansruedi; Troxler, Franz; Frey, Albert; and Ott, Hans, to Sandoz Ltd.; a/k/a Sandoz A.G. Therapeutically active 10-methoxy-deserpidine. 3,647,801, 3-7-72, Cl. 260-287.
 Petrzika, Theodor. Process of producing 6 α , 10 α -trans-6 α , 7,8, 10 α -tetrahydrodibenzo (b,d)-pyrans. 3,668,224, 6-6-72, Cl. 260-345,3.
 Petschel, Michael, Jr.: See—
 Koral, Jerry Norman; and Petschel, Michael, Jr., 3,661,819.
 Pett, Edgar A.: See—
 Marshall, Douglas Woodworth; and Pett, Edgar A., 3,646,713.
 Pett, Robert A.: See—
 Dickie, Ray A.; and Pett, Robert A., 3,652,722.
 Pettazzi, Paolo, to RIV-SKF Officine de Villar Perosa S.p.A. Process and apparatus for correcting irregularities in the circularity of rings. 3,699,792, 10-24-72, Cl. 72-110,000.
 Pettenon, Armando U. Refuse collecting device. 3,659,891, 5-2-72, Cl. 294-19.
 Pettersen, Thomas P., to General Electric Company. Insulated bar dynamoelectric machine and method of forming. 3,659,129, 4-25-72, Cl. 310-216.
 Pettersson, Bengt Edvard, to Sunds Aktiebolag. Apparatus for the washing of primarily, cellulosic pulp. 3,677,040, 7-18-72, Cl. 68-181.
 Pettersson, Birger; and Johnsson, Bo, to Svenska Rotor Maskiner Aktiebolag. Boiler plant including two rotary regenerative air preheaters. 3,692,096, 9-19-72, Cl. 165-7,000.
 Pettersson, George Gustaf Lennart, to Telefonaktiebolaget L M Ericsson. Radar unit arrangement for determining in received echo pulses the position of the pulse centre and the pulse duration. 3,660,845, 5-2-72, Cl. 343-17,1.
 Pettibone Corporation: See—
 Bisinella, Angelo J., 3,666,243.
 Carriere, Russell F., 3,647,099.
 Lado, William J., 3,701,439.
 Larson, Robert A., 3,638,691.
 Lund, Robert; and Koss, Vernon, 3,648,759.
 Stepanek, Roy W., 3,647,150.
 Pettibone, Raymond B.: See—
 Niemiec, Albin J.; and Pettibone, Raymond B., 3,645,654.
 Pettibone, Raymond B.; and Niemiec, Albin J., to Sperry Rand Corporation. Removable liner for gear pump. 3,680,990, 8-1-72, Cl. 418-178,000.
 Pettigrew, David D., to Rockwell Manufacturing Company. Drill press with coolant means. 3,702,740, 11-14-72, Cl. 408-56,000.
 Pettinato, Giuseppe. Ultrasonic probe. 3,685,350, 8-22-72, Cl. 73-71,500.
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 Pettinger, Donald Stanley; and Yellowless, John Mackinlay, to Nuclear Power Group Limited, The. Nuclear reactor fuel element assemblies. 3,663,365, 5-16-72, Cl. 176-77,000.
 Pettit, George R.: See—
 Dias, Jerry R.; and Pettit, George R., 3,661,941.
 Pettit, George R.; Fessler, Dyrac C.; and Paull, Kenneth D. Synthesis of 3-hydroxy-5-bufo-20, 22-dienolide. 3,682,895, 8-8-72, Cl. 260-239,570.
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 Pettit, Lewis F., Jr.; and May, Thomas L., to Westinghouse Electric Corporation. Arc welding current control apparatus. 3,684,942, 8-15-72, Cl. 321-5,000.
 Pettit, Robert F.: See—
 Koschoff, John; Haas, Kenneth C.; and Pettit, Robert F., 3,665,878.
 Pettit, Robert F.; Haas, Kenneth C.; and Gibson, Leslie W., Jr., to Teledyne, Inc., mesne. Collar trimming and pressing apparatus. 3,633,799, 1-11-72, Cl. 223-2.
 Pettit, Robert Halsey, to Sperry Rand Corporation. Electro hydraulic control source for submersible vehicle. 3,653,403, 4-4-72, Cl. 137-565.
 Pettit, Robert Halsey, to Sperry Rand Corporation. Manipulator and manipulator control system. 3,683,747, 8-15-72, Cl. 91-413,000.
 Pettitt, David J., to Kelco Company. Guar gum-polycrylamide compositions. 3,658,734, 4-25-72, Cl. 260-17,4.
 Pettitt, Malcolm Jack: See—
 Taplin, Stanley Donovan; and Pettitt, Malcolm Jack, 3,700,825.
 Pettlo, Louis W.: See—
 Bunting, Charles W.; Groeber, David P.; and Pettlo, Louis W., 3,668,032.
 Petty, Elijah E.: See—
 Koref, Ernest; and Petty, Elijah E., 3,667,920.
 Petty Geophysical Engineering Company: See—
 Quay, Roy G., 3,668,618.
 Quay, Roy G., 3,705,382.
 Petty, George E.: See—
 Wray, Gary Q.; and Petty, George E., 3,664,415.
 Petty, William Dooley: See—
 Slottow, Hiram Gene; and Petty, William Dooley, 3,654,388.

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Korikovskiy, Petr Konstantinovich; Kulichkov, Jury Semenovitch; and Petukhov, Evgeny Dmitrievich, 3,681,909.
- Petuskay, Neil J., to Decision Data Corporation. Damping apparatus for a linear actuator device. 3,675,172, 7-4-72, Cl. 335-257.000.
- Petz, Edmund. Head-on wire stripping tool. 3,707,099, 12-26-72, Cl. 81-9.50a.
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Kiovisky, Thomas E.; and Petzny, Wilfried J., 3,657,108.
Kiovisky, Thomas E.; and Petzny, Wilfried J., 3,685,962.
- Petzold, Jurgen; and Scheidler, Herwig, to JENACER Glaswerk Schott & Gen. Glass convertible to transparent glass ceramics containing AlPO₄, 3,642,504, 2-15-72, Cl. 106-39.
- Petzold, Manfred: *See—*
Frotscher, Herbert; and Petzold, Manfred, 3,639,296.
Rall, Ulrich; Frotscher, Herbert; and Petzold, Manfred, 3,669,702.
- Peuker, Kurt; and Sommer, Heinrich, to Pohligh-Heckel-Bleichert, Vereinigte Maschinenfabriken A.G. Unloader for bulk material in which a chain bucket elevator constitutes the receiving and elevating apparatus. 3,640,376, 2-8-72, Cl. 198-91.
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Hackett, Homer L.; Cullison, David A.; and Peveto, Edmond A., 3,681,014.
Hackett, Homer L.; and Peveto, Edmond A., 3,691,239.
- Pevitt, Herman, Jr., to General Motors Corporation. Die blade for dielectric embossing press. 3,681,170, 8-1-72, Cl. 156-380.000.
- Pevrick Engineering Co., Inc.: *See—*
Hedrick, John R., 3,674,281.
- Pews, R. Garth; and Nyquist, E. B., to Dow Chemical Company. The Alkyl esters of 6-(benzoyl) trihalo-2-picolinic acid. 3,634,440, 1-11-72, Cl. 260-295.
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Alley, Earl G.; and Pews, Richard Garth, 3,657,358.
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- Pews, Richard Garth, to Dow Chemical Company. The Hexabromodione and method of making the same. 3,642,903, 2-15-72, Cl. 260-586.
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- Pewtress, Vernon J., to Co-Polymer Chemicals, Inc. Fiber applicator. 3,642,203, 2-15-72, Cl. 239-15.
- Pey, Walter Arnold, to Welwyn Electric Limited. Film attenuator. 3,680,013, 7-25-72, Cl. 333-81.00r.
- Peyer, Siegfried: *See—*
Duss, Walter, 3,697,732.
Schwartz, Hermann, 3,673,591.
- Peyrot, Jean: *See—*
Glantz, Claude; Meyer, Pierre; and Peyrot, Jean, 3,640,982.
- Peyrot, Jean Pierre. Self-centering tube-buttig clamp. 3,636,294, 1-18-72, Cl. 219-60.
- Peyrot, Jean-Pierre. Welding by electron bombardment. 3,702,389, 11-7-72, Cl. 219-121.0eb.
- Peyroux, Marie Alexandre Jacques Louis. Device for golf training. 3,697,081, 10-10-72, Cl. 273-199.00a.
- Peyser, Harry A.: *See—*
Doyle, Diane J.; and Peyser, Harry A., 3,659,584.
- Peyser, Harry A.; and Doyle, Diane J., to Continental Can Company, Inc. Double-boiler heating container. 3,641,992, 2-15-72, Cl. 126-378.
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- Pezzani, Guido: *See—*
Ryall, Michael Leslie; Pezzani, Guido; and Bocking, Albert, 3,692,426.
- Pezzante, Larry V.: *See—*
Rose, Emery T.; and Pezzante, Larry V., 3,639,159.
- Pezzarossi, John Joseph: *See—*
Gordon, Frederick Armstrong; Griffin, James Richard; and Pezzarossi, John Joseph, 3,693,649.
- Pezzi, Giovanni. Electropneumatic cigarette inspection. 3,690,149, 9-12-72, Cl. 73-38.000.
- Pezzoli, Silvestro: *See—*
Paleologo, Teo; Vargiu, Silvio; and Pezzoli, Silvestro, 3,632,537.
Vargiu, Silvio; Giovanni, Sesto S.; Nistri, Ugo; and Pezzoli, Silvestro, 3,687,896.
- Pfabe, Peter: *See—*
Kirchhoff, Horst-Guenter; Pfabe, Peter; and Sedlmayr, Gerhard, 3,698,657.
- Pfadenhauer, Dieter: *See—*
Forsting, Bernard; Hellriegel, Edmund; and Pfadenhauer, Dieter, 3,700,076.
- Pfaender, Lawrence V.: *See—*
Bode, Wolfgang W.; Dunlap, Glenn H.; Kobylak, Anthony M.; Richards, Raymond S.; and Pfaender, Lawrence V., 3,654,680.
Bode, Wolfgang W.; Dunlap, Glenn H.; Kobylak, Anthony M.; Richards, Raymond S.; and Pfaender, Lawrence V., 3,684,468.
- Pfaff & Kendall: *See—*
Schlosser, Francis G., 3,638,891.
- Pfaff, G. M., AG: *See—*
Schwehm, Lothar, 3,643,613.
Vollmar, Kurt; and Wenz, Herbert, 3,638,593.
- Pfaff, G. M., AG, Firma: *See—*
Albrecht, Ernst; and Hager, Walter, 3,680,506.
Wenz, Herbert, 3,691,970.
- Pfaff Industriemashinen GmbH: *See—*
Ziegler, Hans, 3,670,678.
- Pfaff, Maurice Edgar: *See—*
Kunz, Patrick; Pfaff, Maurice Edgar; and Roman, Pierre Amedee, 3,658,527.
- Pfaff, Richard C.: *See—*
King, Richard E.; and Pfaff, Richard C., 3,707,088.
- Pfaff, Wayne K. Article packaging and handling chain. 3,647,055, 3-7-72, Cl. 206-1.
- Pfaff, William A.: *See—*
Van Auken, John; Kaufman, M. Gene; and Pfaff, William A., 3,677,637.
- Pfaffenbach, Arthur, to McGraw-Edison Company. Portable thermal fogger. 3,646,701, 3-7-72, Cl. 43-129.
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- Pfahl, Siegfried: *See—*
Heinzmann, Werner; and Pfahl, Siegfried, 3,668,851.
- Pfahler, Lloyd L. Collapsible and expansible minnow trapping net. 3,645,034, 2-29-72, Cl. 43-105.
- Pfammatter, Theodul: *See—*
Stocker, August; Marti, Othmar; Pfammatter, Theodul; and Schreiner, Gehart, 3,657,259.
- Pfannenschmid, Otto, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process and device for filtering melts of fiber-forming high molecular weight polymers. 3,639,557, 2-1-72, Cl. 264-176.
- Pfannkuche, Christopher E.: *See—*
Koenig, Barbara; and Pfannkuche, Christopher E., 3,688,416.
- Pfannmueller, Helmut: *See—*
Gaeth, Rudolf; Pfannmueller, Helmut; Stastny, Fritz; Trieschmann, Hans-Georg; Tatzel, Hermann; and Zizlsperger, Johann, 3,632,532.
Gropper, Hans; Stark, Kurt; Pfannmueller, Helmut; and Urban, Friedrich, 3,660,370.
Steigerwald, Klaus; Buechner, Oskar; Ball, Wolfgang; Pfannmueller, Helmut; and Urban, Friedrich, 3,654,253.
Steigerwald, Klaus; Buechner, Oskar; Urban, Friedrich; and Pfannmueller, Helmut, 3,657,211.
Steigerwald, Klaus; Buechner, Oskar; Urban, Friedrich; and Pfannmueller, Helmut, 3,702,845.
Steigerwald, Klaus; Buechner, Oskar; Urban, Friedrich; and Pfannmueller, Helmut, 3,657,212.
Trieschmann, Hans-Georg; Rau, Wolfgang; Mueller-Tamm, Heinz; and Pfannmueller, Helmut, 3,634,382.
Trieschmann, Hans-Georg; Rau, Wolfgang; Jacobsen, Theodor; and Pfannmueller, Helmut, 3,652,527.
Trieschmann, Hans-Georg; Pfannmueller, Helmut; Gropper, Hans; Gierth, Volker; and Beck, Gilbert, 3,664,988.
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Koch, Hans; Oppermann, Willi; and Pfeffer, Heinz, 3,694,617.

- Pfeffer, Jack R.: *See—*
Smith, Irving N.; and Pfeffer, Jack R., 3,690,852.
- Pfeffer, Josef, to Rafi Raimund Finsterholz Elektrotechnische Spezialfabrik. Non-contacting limit switch. 3,657,685, 4-18-72, Cl. 338-32.
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- Pfefferle, William C.: *See—*
Dalson, Milton H.; Gallagher, James P.; and Pfefferle, William C., 3,676,328.
Dalson, Milton H.; and Pfefferle, William C., 3,676,329.
Dalson, Milton H.; Gallagher, James P.; Keith, Carl D.; and Pfefferle, William C., 3,679,578.
Dalson, Milton H.; Keith, Carl D.; Mooi, John; and Pfefferle, William C., 3,705,095.
Keith, Carl D.; Dalson, Milton H.; and Pfefferle, William C., 3,646,236.
Keith, Carl D.; and Pfefferle, William C., 3,658,691.
Keith, Carl D.; and Pfefferle, William C., 3,705,094.
- Pfeife Josef: *See—*
Hofmann, Wilfried; and Pfeife Josef, 3,689,151.
- Pfeifer & Langen: *See—*
Thiele, Henry; Von Doring, Tilo; and Wegner, Gerd, 3,636,753.
- Pfeifer, Charles F. Vacuum tester for packages with flexible covers. 3,667,281, 6-6-72, Cl. 73-37.000.
- Pfeifer, Friedrich, to Vacuumschmelze GmbH. Nickel-iron base magnetic material with high initial permeability at low temperatures. 3,657,025, 4-18-72, Cl. 148-31.55.
- Pfeifer, Josef: *See—*
Bestenreiner, Friedrich; Deml, Reinhold; Greis, Ulrich; and Pfeifer, Josef, 3,644,019.
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- Pfeiffenschneider, Raymond: *See—*
Ranz, Erwin; Von Rintelen, Harald; Pfeiffenschneider, Raymond; and Voight, Armin, 3,637,388.
- Pfeiffer, Arthur, Hochvakuumtechnik GmbH: *See—*
Becker, Willi, 3,666,374.
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Bacharach, Ottmar, 3,656,695.
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- Pfeiffer, Hans Walter: *See—*
Bernold, Jean P.; and Pfeiffer, Hans Walter, 3,696,577.
- Pfeiffer, Harold C.: *See—*
Leonardo, Ignazio; and Pfeiffer, Harold C., 3,652,003.
- Pfeiffer, Heinrich, to Dieffenbach, F., GmbH Maschinenfabrik. Heating platen press. 3,635,626, 1-18-72, Cl. 18-16.
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Betulius, Gilbert E.; and Pfeiffer, Norman W., 3,643,745.
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- Pfeiffer, Richard D. Jig measuring block and use of the same. 3,703,769, 11-28-72, Cl. 33-181.0at.
- Pfeiffer, Robert C.: *See—*
Romanzi, Louis, Jr.; and Pfeiffer, Robert C., 3,644,967.
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Reis, Walter; Pfenning, Helmut; and Boll, Dietmar, 3,650,411.
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Beereboom, John J., 3,679,754.
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Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean-Henry; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,678,091.
Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,686,265.
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Sallmann, Alfred; and Pfister, Rudolf, 3,691,191.
Sallmann, Alfred; and Pfister, Rudolf, 3,706,735.
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Hauser, Paul; Pfister, Walter; Stucki, Hans Ulrich; Teuwen, Heinz; Fuhring, Heinrich; and Sieber, Johannes Helmut, 3,665,734.
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Robinson, Keith J.; and Pfisterer, Heinz A., 3,686,364.

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 Pfitzner, Helmut: See—Bayew, Dimitri; Daeuble, Manfred; Kaufmann, Otto; Ludsteck, Dieter; Pfitzner, Helmut; and Witsch, Heinz-Guenter, 3,704,086.
 Hiller, Heinrich; and Pfitzner, Helmut, 3,657,217.
 Pfitzner, Klaus: See—Heitz, Walter; and Pfitzner, Klaus, 3,681,269.
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 Lozanov, Merrill, 3,644,246.
 McFarland, James W., 3,684,802.
 Pfizer Inc.: See—Abuel-Haj, Marwan J., 3,644,360.
 Abuel-Haj, Marwan J., 3,671,521.
 Allingham, Robert P.; and Beereboom, John J., 3,658,983.
 Axelrod, Michael; Marsh, William S.; Rao, Koppaka V.; and Sodano, Charles S., 3,644,617.
 Barth, Wayne E., 3,700,681.
 Baxter, Charles A. R., 3,668,208.
 Beereboom, John J.; Cameron, Donald P.; and Stephens, Charles R., 3,647,479.
 Berg, Rudolph G., 3,701,805.
 Beutel, Rolf Ernst; and Raaf, Helmut Wilhelm, 3,674,859.
 Butler, Kenneth, 3,635,961.
 Butler, Kenneth, 3,679,801.
 Butler, Kenneth; and Hamanaka, Seiichi, 3,681,342.
 Butler, Kenneth, 3,697,506.
 Butler, Kenneth; Conover, Lloyd H.; and Woodward, Robert B., 3,699,117.
 Canas-Rodriguez, Antonio; and Leeming, Peter R., 3,644,403.
 Canas-Rodriguez, Antonio; and Leeming, Peter R., 3,686,182.
 Conover, Lloyd H.; McFarland, James W.; and Austin, William C., 3,644,624.
 Conover, Lloyd H., 3,663,697.
 Conover, Lloyd H.; and Woodward, Robert B., 3,697,552.
 Cronin, Timothy H., 3,635,972.
 Cronin, Timothy H., 3,696,102.
 Cronin, Timothy H.; and Hess, Hans-Jurgen E., 3,702,849.
 De Angelis, Gerald George; and Hess, Hans-Jurgen Ernst, 3,706,747.
 De Angelis, Gerald George; and Hess, Hans-Jurgen Ernst, 3,707,560.
 DeCasperis, Anthony J., 3,640,896.
 Dominy, Beryl William, 3,679,679.
 Eichhorn, Herbert H., 3,681,196.
 Freeze, James T.; and Fikes, Alan L., 3,655,616.
 Fried, John H., 3,632,476.
 Fried, John H., 3,669,839.
 Gadsby, Brian; Leeming, Peter Rodway; and Thomas, Michael Barrie, 3,686,291.
 Goldman, Irving M., 3,637,684.
 Goldman, Irving M.; and Larson, Jerry K., 3,676,428.
 Goldman, Irving M., 3,702,889.
 Hess, Hans-Jurgen E.; and Cronin, Timothy H., 3,632,763.
 Hess, Hans-Jurgen E., 3,635,979.
 Hess, Hans-Jurgen E., 3,663,706.
 Hess, Hans-Jurgen E., 3,669,968.
 Hochstein, Francis A., 3,657,453.
 Hoffman, Mark; and Lindquist, Claude Alan, Jr., 3,655,263.
 Holland, Gerald F., 3,642,996.
 Howes, Harold L., Jr.; and Koch, Richard C., 3,655,891.
 Johnston, James David, 3,644,622.
 Kadin, Saul B., 3,676,463.
 Kay, James W.; and Norwood, Robert E., 3,660,407.
 Kibler, Gene M.; and Singleton, Clifton L., 3,702,342.
 Kolb, Carl A., 3,681,430.
 Leir, Charles M., 3,652,643.
 Lindquist, Claude A., Jr., 3,660,328.
 Liu, Wen Chih, 3,641,243.
 Lombardino, Joseph G.; and Holland, Gerald F., 3,674,876.
 Lombardino, Joseph George, 3,707,475.
 McManus, James M.; and Kadin, Saul B., 3,634,453.
 McManus, James M., 3,636,049.
 McManus, James M., 3,654,275.
 Nakanishi, Susumu, 3,651,050.
 Niblack, John F., 3,652,538.
 Orlemann, Justus K., 3,666,407.
 O'Shea, Daniel P.; and Nakanishi, Susumu, 3,676,427.
 Pirie, Donald K., 3,647,783.
 Robba, William A.; and Klasson, George A., 3,697,721.
 Robba, William A.; and Conabee, Earl E., 3,698,646.

Rush, Robert L., 3,649,198.
 Rutner, Herman, 3,655,699.
 Sardinias, Joseph L., 3,658,652.
 Sciavolino, Frank C.; Routien, John B.; Tynan, Edward J.; and Celmer, Walter D., 3,655,876.
 Scollick, Neil Montgomery; and Thorpe, Eric Frederick James, 3,689,502.
 Sobin, Ben A.; Routien, John B.; Rao, Koppaka V.; Marsh, William S.; and Garretson, Aline L., 3,646,194.
 Tate, Bryce E.; and Allingham, Robert P., 3,644,635.
 Tate, Bryce E.; and Berg, Rudolph G., 3,697,453.
 Thomas, Paul D., 3,660,114.
 Timreck, Albert E., 3,686,168.
 Wyatt, James B.; George, Peter D.; and Van Dyck, Kenneth, 3,669,104.
 Pflanz, Herbert M.: See—Armitage, Charles H.; Peek, Henry L.; and Pflanz, Herbert M., 3,641,293.
 Armitage, Charles H.; Peek, Henry L.; and Pflanz, Herbert M., 3,641,294.
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 Pfeleiderer, Dieter: See—Genz, Heinz; Berger, Dieter; Pfeleiderer, Dieter; and Seeliger, Horst, 3,639,207.
 Genz, Heinz; Liborius, Heinz; Pfeleiderer, Dieter; Schmidt, Karl; Berger, Dieter; and Seeliger, Horst, 3,650,892.
 Pfluger, Gerhard: See—Vogel, Erich; Ulimann, Gunter; and Pfluger, Gerhard, 3,646,820.
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 Pfluke, Peter L., to Itel Corporation. Up-dating record member. 3,635,712, 1-18-72, Cl. 96-48.
 Pfoertner, Karlheinz: See—Bose, Dieter; and Pfoertner, Karlheinz, 3,657,278.
 Pfrommer, Fritz; and Bansal, Suresh A., to Cross Company, The. Transfer device. 3,685,630, 8-22-72, Cl. 198-19.000.
 Pfund, Adolf: See—Berger, Leonard; Fitzpatrick, William E.; McGinley, James H.; Pfund, Adolf; and Schwartzberg, Ira G., 3,672,122.
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 Pfundstein, Gerald Bernard: See—Egger, Carl Thomas; Pfundstein, Gerald Bernard; and Gillenwater, Donald Lee, 3,668,007.
 Pfyffer, Peter Martin: See—Hafeli, Jakob; and Pfyffer, Peter Martin, 3,648,522.
 Phares, Bruce G.: See—Hutch, Frederick S.; and Phares, Bruce G., 3,665,414.
 Phares, Lindsey J., to Raymond International, Inc. Permafrost Insulation. 3,685,583, 8-22-72, Cl. 166-302.000.
 Phares, Russell E., Jr., to Barnes-Hind Pharmaceuticals Inc. Process of soaking and sterilizing hydrophilic soft contact lenses with chlorohexidine. 3,689,673, 9-5-72, Cl. 424-326.000.
 Pharma Plastics, Inc.: See—

Richards, Warren, 3,658,203.
 Pharmicare, Inc.: See—Siegel, Harold B., 3,692,228.
 Pharmacia AB: See—Axen, Rolf E. A. V.; Porath, Jerker Olof; and Ernbach, Erik Sverker, 3,645,852.
 Bjork, Lars; Erikson, Uno E.; and Ingelman, Bjorn G. A., 3,692,824.
 Catt, Kevin J., 3,646,346.
 Ingelman, Bjorn G.; and Ceska, Miroslav, 3,676,303.
 Ingelman, Bjorn G.-A., 3,632,736.
 Ingelman, Bjorn G.-A., 3,632,737.
 Ingelman, Bjorn G.-A., 3,632,738.
 Pharmacia Fine Chemicals AB: See—Determann, Helmut; and Wieland, Theodor, 3,652,540.
 Pharo, Wellington B.: See—Glendinning, William B.; and Pharo, Wellington B., 3,672,980.
 Pharris, John A.; and D'Ercoli, Giacinto C., to E Z Paints Corporation. Mandrel construction for paint roller. 3,638,271, 2-1-72, Cl. 15-230.11.
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 Werner, Bernfried M., 3,646,774.
 Werner, Bernfried M., 3,666,383.
 Werner, Bernfried M., 3,698,206.
 Phelan, Robert J., Jr., to Massachusetts Institute of Technology. Semiconductor device for producing radiation in response to incident radiation. 3,649,838, 3-14-72, Cl. 250-211.
 Phelan, William J.: See—Malcolm, Ronald D.; Phelan, William J.; and Sangiolo, Thomas L., 3,698,007.
 Phelon, R. E., Company, Inc.: See—Magrane, Robert T., 3,673,490.
 Phelon, Russell E., 3,663,850.
 Phelon, Russell E. Rotor annulus for electric generator. 3,657,582, 4-18-72, Cl. 310-156.
 Phelon, Russell E., to Phelon, R. E., Company, Inc. Field means for a dynamoelectric machine, magnet preassembly for use therein. 3,663,850, 5-16-72, Cl. 310-153.
 Phelps, Brian: See—Blake, Paul Desmond; Johnston, Roy Douglas; Phelps, Brian; Chapman, Edwin Albert; and Bartlett, Ronald Leonard, 3,702,390.
 Phelps Dodge Copper Products Corporation: See—McKean, Alexander L., 3,643,004.
 Nevin, John J.; and Dumire, Leo G., 3,685,147.
 Yearley, Douglas C., 3,682,228.
 Phelps Dodge Magnet Wire Corporation: See—Koerner, Ernest C.; Trice, Robert T.; and Wareham, William W., 3,699,082.
 Phelps Dodge Refining Corporation: See—Spoon, Bill Hugh, 3,661,756.
 Phelps, Dolphus H., to General Electric Company. Hermetic refrigeration compressor. 3,704,964, 12-5-72, Cl. 417-312.000.
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 Phelps, Harold E., to Phelps, Harold, Inc. Fuel supply system. 3,642,256, 2-15-72, Cl. 261-39.
 Phelps, Harold E., to Phelps, Harold, Inc. Carburetor. 3,675,907, 7-11-72, Cl. 261-39.000.
 Phelps, Harold, Inc.: See—Phelps, Harold E., 3,642,256.
 Phelps, Harold E., 3,675,907.
 Phelps, Jerry A.; and Sass, Donald J. Portable battery-powered instrument for visualizing the peripheral pulse waveform and pulse rate. 3,646,931, 3-7-72, Cl. 128-2.05.
 Phelps, Peter M. Combination cross flow and counter flow cooling tower. 3,707,277, 12-26-72, Cl. 261-23.000.
 Phelps, Rex V., to Warren Petroleum Corporation. Multicylinder vessel for transportation of fluids. 3,640,237, 2-8-72, Cl. 114-16.
 Phelps, Rex V., to Warren Petroleum Corporation. Multicylinder tanks. 3,645,415, 2-29-72, Cl. 220-21.
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 Phelps, Rex V., to Warren Petroleum Corporation. Deep-water drilling, production and storage system. 3,698,198, 10-17-72, Cl. 61-46.500.
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 Phelps, Richard W.; and Mehofer, Ronald O., to Black Clawson Company, The. Winding apparatus. 3,635,415, 1-18-72, Cl. 242-64.
 Phelps, Robert J.: See—Fitzsimons, Alan R.; and Phelps, Robert J., 3,647,983.

Phelps, Robert John: See—Fitzsimons, Alan Rayment; and Phelps, Robert John, 3,649,772.
 Phelps, Ross Leslie: See—Meyer, Dolph Allan; Phelps, Ross Leslie; Seidel, David Paul; Dykes, Edward Henry; Clipsham, Ian Sweet; Gray, Donald; and Ractivand, Theodore Demetrius, 3,636,686.
 Meyer, Dolph Allan; Phelps, Ross Leslie; Sykes, Edward Henry; Clipsham, Ian Sweet; Seidel, David Paul; Gray, Donald; and Ractivand, Theodore Demetrius, 3,694,855.
 Snodgrass, Kenneth William; Steele, William Henry; Wilson, Alan; and Phelps, Ross Leslie, 3,685,613.
 Phelps, Thomas E.; and Kraft, Ben F. Concrete form clip. 3,697,039, 10-10-72, Cl. 249-219.000.
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 Phibbs, William Wayne. Power operated pulling implement. 3,647,185, 3-7-72, Cl. 254-30.
 Phifer, Clarence Gary, to Westinghouse Electric Corporation. Latching and locking arrangement for self-cleaning oven door. 3,638,638, 2-1-72, Cl. 126-197.
 Philadelphia Manufacturing Company, Inc.: See—Startzman, Paul E., 3,679,113.
 Philadelphia Quartz Company: See—Bobb, John S. Stephen, 3,650,977.
 Sams, Robert H.; Linton, Robert W.; and Horikawa, Noboru R., 3,679,610.
 Sams, Robert H.; Linton, Robert W.; and Weldes, Helmut H., 3,687,640.
 Philamon Incorporated: See—Grib, Boris F., 3,632,192.
 Philbrick, Daniel W., to Robertshaw Controls Company. Annunciator circuit or field point monitoring system. 3,682,129, 8-8-72, Cl. 116-65.000.
 Philbrick, Richard W.; and Arazi, Efraim R., to Itel Corporation. Fire control system for use in conjunction with electronic image motion stabilization systems. 3,659,494, 5-2-72, Cl. 89-28.
 Philbrook, James E.: See—Thunberg, Jon C.; and Philbrook, James E., 3,699,214.
 Philco Corporation: See—Laschenski, Joseph E., 3,656,761.
 Philco-Ford Corporation: See—Berenbaum, Arthur; and West, William A., 3,683,145.
 Berenbaum, Arthur; and McDonough, Robert M., 3,699,453.
 Cote, Alfred A., 3,668,924.
 Fix, John W.; Hallum, Charles E.; and Kaufman, Warren F., 3,704,832.
 Giontzeneli, Kiamil; and Hermann, Philip E., 3,651,420.
 Gumacos, Constantine, 3,649,821.
 Hahn, Peter M., 3,651,459.
 Hess, James L., Jr.; and Dow, Harrison E., 3,638,951.
 Hubbard, James R., 3,696,521.
 Irvin, Albert H., 3,699,873.
 Kaufman, Warren F., 3,692,036.
 Kaufman, Warren F., 3,699,814.
 Leonard, Jay F., 3,696,203.
 Matthews, William J., 3,644,890.
 McDonough, Robert M., 3,673,540.
 Montgomery, Andrew P., 3,678,183.
 Robinson, John L.; and Mannich, Robert F., 3,706,929.
 Savey, Lenfred L., 3,705,422.
 Shelby, Rufus F., 3,699,359.
 Thompson, Alvin E., 3,680,394.
 Westerman, Charles Webster; Scott, William G.; and Wales, William S., 3,633,210.
 Whitcomb, Stuart P., 3,633,983.
 Wolfe, Paul G., 3,706,907.
 Philibert, Robert A.; and Browne, Frank L., to O.Z. Electrical Manufacturing Company, Inc. Conduit cable seal. 3,655,907, 4-11-72, Cl. 174-77.
 Philip, Alexander Schroder, to Plessey Handel und Investments A.G. Telephone switching systems. 3,705,266, 12-5-72, Cl. 179-15.0at.
 Philip, Derek A. Method of coating particles by rotating a fluidized bed of the particles. 3,687,717, 8-29-72, Cl. 117-100.00a.
 Philip H. Willkie: See—Perry, James T., 3,703,285.
 Philip, Morris. Producing a knitting machine needle bed. 3,667,113, 6-6-72, Cl. 29-52.6.
 Philip, Morris. Yarn stand. 3,669,379, 6-13-72, Cl. 242-131.000.
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 Philipe, Oscar, to Anglo Swiss (Equipment Production) Limited. Appliances for cooking and/or heating foodstuffs. 3,681,096, 8-1-72, Cl. 99-339.000.
 Philipp, Warren H.; Marsik, Stanley J.; and May, Charles E., to United States of America, National Aeronautics and Space Administration. Selective nickel deposition. 3,658,569, 4-25-72, Cl. 117-47.
 Philippaerts, Herman Adelbert: See—

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- Van Den Heuvel, Walter August; Willems, Jozef Frans; Philippaerts, Herman Adelbert; Beels, Roland Francois; and Heylen, Renaat Frans, 3,661,584.
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- Philippe, Nicodeme, to Bendix Corporation, The. Warning device for a split fluid pressure braking system. 3,699,513, 10-17-72, Cl. 340-52,00c.
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- Phillips Fibers Corporation: See—
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- Fernandez, Miguel A., 3,659,980.
- McCord, Donald M., 3,681,969.
- Schmick, Hayes J., 3,643,298.
- Tate, John E.; Borenstein, David E.; Langley, Isaac L., Jr.; and Banning, Jack A., 3,684,459.
- Van Doornewaard, Hans; and Jackson, Henry G., 3,679,786.
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- Gartner, Klaus W., 3,702,070.
- Phillips Petroleum Company: See—
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- Arens, James L.; and Staten, Hi W., 3,676,653.
- Austin, Oliver K.; and Loewen, Bruno F., 3,674,437.
- Baker, Robert M., 3,652,494.
- Banks, Robert L., 3,658,929.
- Banks, Robert L.; and Kenton, Joseph R., 3,660,506.
- Banks, Robert L., 3,663,640.
- Banks, Robert L., 3,696,163.
- Bellinger, Robert M.; and Cabbage, John T., 3,700,566.
- Bennett, Richard J., 3,658,578.
- Berger, Richard S., 3,652,714.
- Billings, William G., 3,658,463.
- Billings, William G., 3,691,247.
- Bjornson, Geir; and Fox, Homer M., 3,652,691.
- Bjornson, Geir; and Fox, Homer M., 3,674,668.
- Bowers, John R., 3,648,468.
- Bowles, William R., 3,677,113.
- Bowman, Edward L., 3,687,881.
- Bowman, Mark M., Jr., 3,679,466.
- Box, E. O., Jr.; and Uhrick, David A., 3,641,182.
- Box, E. O., Jr.; Drehman, Lewis E.; and Farha, Floyd E., Jr., 3,674,706.
- Box, E. O., Jr., 3,692,701.
- Brady, Donnie G., 3,674,750.
- Brady, Donnie G., 3,699,155.
- Brady, Donnie G.; Zuech, Ernest A.; and Gray, Roy A., 3,700,625.
- Brady, Donnie G., 3,700,724.
- Brauscum, Claud D., 3,668,122.
- Bresson, Clarence R., 3,642,915.
- Bresson, Clarence R., 3,644,282.
- Bridenstine, Orville J., 3,648,883.
- Bridenstine, Orville J.; Shutt, Melvin S.; and Brookshire, Harry A., 3,672,530.
- Broerman, Arthur B., 3,633,426.
- Brown, James D.; and Uraneck, Carl A., 3,644,528.
- Brown, James D.; and Uraneck, Carl A., 3,669,798.
- Burk, Marvin C., 3,676,649.
- Burleigh, John E.; and Uraneck, Carl A., 3,640,986.
- Busler, William R., 3,678,069.
- Butcher, Alvin E., 3,632,264.
- Butcher, Alvin E., 3,663,522.
- Byron, John W., 3,677,704.
- Caffry, John B., 3,693,222.
- Cagle, Glen E.; and Witt, Donald R., 3,663,176.
- Caldwell, William A., 3,650,402.
- Caldwell, William A., 3,657,166.
- Campbell, Robert W., 3,658,899.
- Campbell, Robert W., 3,661,863.
- Campbell, Robert W.; and Williams, Ralph P., 3,663,514.
- Canterino, Peter J., 3,658,491.
- Cardenas, Carlos G.; and Brady, Donnie G., 3,697,607.
- Carrow, Guy E., 3,632,702.
- Chandler, Craig S., 3,633,404.
- Chapman, Charles C., 3,647,905.
- Chapman, Charles C., 3,663,646.
- Childers, Clifford W., 3,637,554.
- Childers, Clifford W.; and Clark, Earl, 3,649,716.
- Childs, William V., 3,655,525.
- Childs, William V., 3,655,548.
- Childs, William V., 3,657,100.
- Childs, William V.; and Ruehlen, Forrest N., 3,658,685.
- Cichowski, Robert S., 3,660,514.
- Cines, Martin R., 3,692,890.
- Cines, Martin R., 3,697,487.
- Clardy, Edwin K.; and Ragains, Wilbur G., 3,653,844.
- Clark, Merlin O., 3,644,107.
- Clark, Vernon R., 3,644,752.
- Clay, Harris A., 3,674,887.
- Clayton, Hadwen A., 3,690,115.
- Cleary, James W., 3,642,945.
- Cleary, James W., 3,652,719.
- Cleary, James W., 3,665,056.
- Cobb, Raymond I., 3,660,488.
- Cobb, Raymond L., 3,641,075.
- Cobb, Raymond L.; and Pearson, David P., 3,658,667.
- Cobb, Raymond L., 3,658,915.
- Collie, Stafford D., 3,648,917.
- Collie, Stafford D.; and Oliver, Ronald R., 3,658,217.
- Collins, Henry R., Jr., 3,656,349.
- Cook, Charles F.; Doane, Elliott P.; and Johnson, Marvin M., 3,649,195.
- Cook, Kenneth U., 3,651,725.
- Corrin, Myron L., 3,691,071.
- Cottle, John E., 3,658,659.
- Crain, Donald L.; and Reusser, Robert E., 3,658,927.
- Crain, Donald L.; and Stapp, Paul R., 3,658,931.
- Crain, Donald L.; and Reusser, Robert E., 3,660,516.
- Crouch, Ross A., 3,643,927.
- Crouch, Willie W., 3,645,685.
- Crouch, Willie W.; and Moberly, Charles W., 3,687,907.
- D'Arcy, Robert M.; Birtell, James C.; Hensley, Emmery P.; and Pryor, Robert C., 3,667,744.
- Davison, Joseph W., 3,633,371.
- Davison, Joseph W., 3,635,931.
- Davison, Joseph W., 3,660,513.
- De Vault, Albert N., 3,696,088.
- Dix, James S.; Mathis, Ronald D.; and Netherton, Leslie T., 3,637,588.
- Dixon, Rolland E.; and Sherck, Fred T., 3,704,334.
- Dollinger, Robert E., 3,676,168.
- Doss, Richard C.; and Jones, Faber B., 3,676,201.
- Doss, Richard C.; and Jones, Faber B., 3,690,936.
- Douglas, Gary D.; and Eaves, Billy J., 3,675,578.
- Drake, Charles A., 3,658,922.
- Drake, William O.; and Mills, Kenneth R., 3,636,031.
- Drake, William O.; and Brady, Donnie G., 3,660,533.
- Drake, William O., 3,668,281.
- Draper, Homer L., 3,632,418.
- Draper, Homer L.; and Gagle, Duane W., 3,680,319.
- Drehman, Lewis E.; and Walker, Darrell W., 3,670,044.
- Dunn, Howard E., 3,636,128.
- Dunn, Howard E., 3,644,218.
- Dunn, Howard E., 3,651,111.
- Dunn, Howard E., 3,686,353.
- Dunn, Howard E., 3,689,588.
- Dunn, Robert O., 3,660,254.
- Erdmann, Fred H., 3,658,936.
- Erickson, Wayne K.; and Buchanan, David R., 3,680,334.
- Fahey, Darryl R., 3,671,560.
- Fahey, Darryl R., 3,676,421.
- Fahey, Darryl R., 3,686,245.
- Farrar, Ralph C., 3,644,322.
- Farrar, Ralph C., 3,652,516.
- Favre, John A., 3,686,923.
- Fodor, Lawrence M., 3,635,930.
- Fox, Homer M.; Ruehlen, Forrest N.; and Williams, Keith A., 3,657,101.
- Fox, Homer M.; Ruehlen, Forrest N.; and Williams, Keith A., 3,660,255.
- Fox, Homer N.; and Ruehlen, Forrest N., 3,689,382.
- Franklin, Marvin L.; and Gagle, Duane W., 3,632,415.
- Frazier, Arthur E., 3,634,310.

Frazier, Arthur E.; and Dollinger, Robert E., 3,645,765.
 Frazier, Arthur E., 3,684,763.
 Fritz, Richard C.; and Galvanoni, Aldo B., 3,640,049.
 Gaeth, Rudolf H.; and Farrar, Ralph C., 3,674,895.
 Gagle, Duane W.; and Bennett, Richard J., 3,639,317.
 Gardner, Lloyd E., 3,636,172.
 Gardner, Lloyd E., 3,636,173.
 Geraldo, Antonio A., 3,640,939.
 Gilbert, Dixie E., 3,644,592.
 Gilbert, Dixie E., 3,649,150.
 Gilbert, Dixie E., 3,662,049.
 Gilbert, Dixie E., 3,686,379.
 Gilbert, Dixie E., 3,687,593.
 Gilbert, Dixie E., 3,695,805.
 Goldsmith, Clifton R., 3,679,599.
 Gragson, James T.; and Bosse, David W., 3,658,703.
 Gray, Roy A.; Kittleman, Edmund T.; and Ray, Gardner C., 3,632,804.
 Gray, Roy A.; and Deck, Harold R., 3,660,346.
 Gray, Roy A.; and Thomas, Moses L., 3,666,541.
 Gray, Roy A.; Kittleman, Edmund T.; and Ray, Gardner C., 3,707,512.
 Green, William B., 3,658,777.
 Grimes, Monford D.; and Edmonds, James T., Jr., 3,701,665.
 Guillory, Jack P.; and Cook, Charles F., 3,636,348.
 Gunnell, Thomas J.; and Stegelman, Albert F., 3,636,300.
 Gwinn, J. S., 3,689,595.
 Hahn, William C., 3,699,821.
 Hann, Paul D., 3,647,330.
 Hanson, Donald O., 3,645,889.
 Hanson, Donald O., 3,663,641.
 Hanson, Donald O., 3,689,374.
 Haskell, Donald M.; and Munro, Bradley L., 3,676,516.
 Hayward, Richard E., Jr., 3,684,601.
 Heckelsberg, Louis F., 3,642,933.
 Heckelsberg, Louis F., 3,676,520.
 Heckelsberg, Louis F., 3,707,581.
 Held, Edward C., Jr., 3,695,799.
 Henderson, Eulas W., 3,660,039.
 Hettick, George R.; and Lawson, Shelby D., 3,658,693.
 Hill, Harold Wayne, Jr.; and Edmonds, James T., Jr., 3,652,327.
 Hill, Harold Wayne, Jr.; and Campbell, Robert W., 3,673,247.
 Hinton, Robert A., 3,635,840.
 Hinton, Robert A.; and Cottle, John E., 3,679,764.
 Hitzman, Donald O.; and Alquist, Henry E., 3,642,578.
 Hitzman, Donald O., 3,650,326.
 Hobbs, James W., 3,656,911.
 Hobbs, James W.; and Long, George W., 3,676,304.
 Hoffman, Alfred A., Jr., 3,645,697.
 Hogan, John P., 3,666,736.
 Hogan, Roy E., 3,645,104.
 Holland, Eric O., 3,668,078.
 Holtz, Hans D., 3,639,436.
 Hoppner, Werner F., 3,634,173.
 Horvath, Bertalan, 3,646,000.
 Horvath, Bertalan, 3,676,417.
 Houston, William L., Jr.; and Clark, William C., 3,679,765.
 Hsieh, Henry L.; and Busler, William R., 3,639,346.
 Hsieh, Henry L.; and Mueller, Francis X., Jr., 3,639,519.
 Hsieh, Henry L., 3,639,521.
 Hsieh, Henry L., 3,658,716.
 Hsieh, Henry L., 3,661,865.
 Hsieh, Henry L.; and Buck, Ollie G., 3,676,407.
 Hughes, James K.; and Su, Tsung-Yuan, 3,639,505.
 Hughes, William B., 3,668,086.
 Hughes, William B., 3,674,661.
 Hughes, William B., 3,697,615.
 Hutchinson, William M., 3,662,009.
 Hutchinson, William M., 3,689,373.
 Hutchinson, William M., 3,689,376.
 Hutson, Thomas, Jr.; and Ritter, Ronald E., 3,646,239.
 Hutson, Thomas, Jr.; and Carter, Cecil O., 3,679,771.
 Hutto, John F., 3,634,537.
 Irvin, Howard B.; and Wagner, Paul H., 3,681,308.
 Jackson, James C., 3,701,699.
 Johnson, Marvin M.; and Tabler, Donald C., 3,676,332.
 Johnson, Marvin M.; and Tabler, Donald C., 3,677,933.
 Johnson, Marvin M.; Tabler, Donald C.; and Nowack, Gerhard P., 3,697,448.
 Johnson, Paul H., 3,655,341.
 Johnson, Paul H., 3,681,031.
 Johnston, Harlin D.; and Fury, Roy C., 3,684,447.
 Johnston, Richard D., 3,632,262.
 Jones, Faber B., 3,639,655.
 Jones, Rufus V.; and Canterino, Peter J., 3,692,504.
 Kahle, Gerald R., 3,652,676.
 Kahle, Gerald R.; and Fodor, Lawrence M., 3,658,779.
 Keene, William A., 3,675,432.
 Kelly, Guy L., 3,658,029.
 Kenton, Joseph R.; and Mahan, John E., 3,658,930.
 King, Frank O., 3,697,277.

Kinney, Alfred W., 3,633,469.
 Kinney, Alfred W., 3,642,167.
 Kinney, Alfred W., 3,643,830.
 Kinney, Alfred W., 3,651,981.
 Kinney, Alfred W.; and Marshall, Frederick P., 3,669,305.
 Kinney, Alfred W., 3,669,340.
 Kinney, Alfred W.; and Williams, James W., 3,672,536.
 Kinslow, William G., Jr., 3,652,363.
 Kinslow, William G., Jr., 3,674,606.
 Kitchen, Alonzo G.; and Szalla, Frank J., 3,639,517.
 Kraus, Gerard, 3,675,009.
 Krstolic, Anthony J., 3,659,984.
 Kubicek, Donald H.; and Reusser, Robert E., 3,659,008.
 Kubicek, Donald H.; and Zuech, Ernest A., 3,703,561.
 Kuper, Donald G., 3,641,130.
 Kuper, Donald G., 3,644,504.
 Kuper, Donald G., 3,652,664.
 Kuper, Donald G., 3,658,904.
 Lane, Donald W.; and Pemberton, Troy J., 3,676,782.
 Lanning, William C.; and Gall, James W., 3,658,129.
 Larkin, Mark E., 3,639,970.
 Lawson, Shelby D., 3,644,196.
 Lewis, Benjamin D., 3,632,731.
 Louthan, Rector P., 3,674,525.
 Louthan, Rector P., 3,676,166.
 Marrs, Oren L.; and Simpson, Billy D., 3,658,740.
 Marrs, Oren L., 3,666,701.
 Marx, John W., 3,677,982.
 Mathis, Ronald D.; and Netherton, Leslie T., 3,637,907.
 Mathis, Ronald D.; and Guillory, Jack P., 3,644,279.
 Mathis, Ronald D.; and Dunn, Howard E., 3,659,002.
 Mathis, Ronald D.; and Dix, James S., 3,692,738.
 McCreary, Elmer J.; and Hollis, Paul R., Jr., 3,658,694.
 Meshek, Harry M., 3,633,616.
 Meyer, Richard D.; and Newton, Richard C., 3,650,675.
 Meyer, Richard D.; and Walczak, Zbigniew K., 3,681,852.
 Michael, Richard W.; and Staten, Hi W., Jr., 3,697,780.
 Middlebrook, Terence C., 3,678,134.
 Milam, Paul B., Jr.; and Held, Edward C., Jr., 3,646,187.
 Miles, John M., 3,707,528.
 Mills, Kenneth R., 3,642,690.
 Mills, Kenneth R., 3,644,273.
 Mills, King L., 3,659,001.
 Mills, King L., 3,663,380.
 Mills, King L., 3,676,324.
 Mitacek, Bill, 3,697,670.
 Mitchell, Norris W.; Skraha, Frank W.; and Houston, William L., Jr., 3,681,897.
 Moberly, Charles W.; and Kahle, Gerald R., 3,642,744.
 Montgomery, Dean P., 3,707,579.
 Moon, Clive D.; and Neumann, Robert K. F., 3,658,755.
 Morgan, John A., 3,659,171.
 Mueller, Francis X., Jr.; and Brown, James D., 3,687,916.
 Myers, Charles L., 3,655,793.
 Myers, John W., 3,663,453.
 Nave, Thomas J., 3,690,804.
 Naylor, Floyd E., 3,640,899.
 Naylor, Floyd E., 3,640,990.
 Naylor, Floyd E., 3,652,456.
 Naylor, Floyd E., 3,658,776.
 Needham, Donald G.; Walker, Howard B.; and Myers, Luther O., Jr., 3,694,543.
 Neer, Harold M., 3,632,986.
 Neer, Harold M.; and Street, Vern A., 3,701,908.
 Nevin, John B., 3,664,782.
 Newton, Richard C., 3,650,674.
 Newton, Richard C., 3,678,547.
 Nikkel, Ronnie D., 3,650,001.
 Nolan, George J.; and Holm, Vernon C. F., 3,679,601.
 Norwood, Donald D.; and Marwil, Stanley J., 3,644,323.
 Nowack, Gerhard P., 3,636,175.
 Nowack, Gerhard P.; and Johnson, Marvin M., 3,637,877.
 Nowack, Gerhard P., 3,692,853.
 Parker, Harry W., 3,638,729.
 Parker, Harry W., 3,667,546.
 Parker, Harry W., 3,698,478.
 Parker, Harry W., 3,707,191.
 Parrish, Russell C., 3,677,311.
 Peacock, Dixon W.; and Needham, Riley B., 3,680,634.
 Peck, Alvin W., 3,697,233.
 Pennella, Filippo, 3,655,804.
 Pennington, Edward N., 3,676,066.
 Pitchford, Armin C., 3,646,120.
 Pitchford, Armin C.; and DeVault, Albert N., 3,649,527.
 Pitchford, Armin C., 3,676,331.
 Pitzer, Emory W., 3,681,258.
 Pitzer, Emory W., 3,686,346.
 Pitzer, Emory W., 3,687,868.
 Pollock, Lyle W., 3,707,457.
 Post, Carl A.; and Cabanaw, Eldred J., 3,666,828.
 Power, Harlan D., 3,662,580.

Pritchard, James E., 3,674,915.
 Pryor, Robert C., 3,680,500.
 Quigg, Donald J.; and Short, James N., 3,645,947.
 Quiles, Francisco K., 3,678,598.
 Rains, Cloral O.; and Mc Cord, Donald M., 3,660,555.
 Reece, Jack E.; and Fozzard, George B., 3,697,516.
 Reed, Jerry O.; and Dix, James S., 3,658,753.
 Regier, Robert B., 3,652,703.
 Reusser, Robert E., 3,660,507.
 Reusser, Robert E.; and Crain, Donald L., 3,660,517.
 Reusser, Robert E., 3,689,589.
 Reusser, Robert E., 3,696,165.
 Rion, Pat F., 3,675,901.
 Ririe, Otis E., 3,643,406.
 Ritter, Ronald E.; and Hutson, Thomas, Jr., 3,682,779.
 Roark, William G., 3,669,874.
 Robinson, Leroy E., 3,689,609.
 Rogers, Ronald S., 3,660,515.
 Rollmann, Kent W.; and Wood, Harold V., 3,694,523.
 Ruehlen, Forrest N., 3,650,917.
 Ruehlen, Forrest N.; and Fox, Homer M., 3,655,535.
 Ruehlen, Forrest N., 3,686,082.
 Rush, John B., 3,636,682.
 Scalan, Richard S., 3,649,201.
 Scoggin, Jack S., 3,644,583.
 Scoggin, Jack S., 3,658,780.
 Scruggs, Jack G.; and Brady, Donnie G., 3,676,484.
 Seefluth, Charles L., 3,632,713.
 Seefluth, Charles L., 3,640,665.
 Selman, Charles M., 3,635,923.
 Shell, Francis J.; and Zetmeir, Norris D., 3,661,884.
 Short, James N.; Zelinski, Robert P.; Gaeth, Rudolf H.; and Zuech, Ernest A., 3,637,627.
 Short, James N.; and Geraldo, Antonio A., 3,661,872.
 Silas, Robert S., 3,653,840.
 Slagel, John E., 3,636,148.
 Smith, Clifford E.; and White, Bobby J., 3,641,184.
 Smith, Dexter E.; and Stewart, William S., 3,636,326.
 Smith, Ernest L., 3,670,951.
 Smith, Richard L.; and Uraneck, Carl A., 3,660,362.
 Smith, Richard L.; and Uraneck, Carl A., 3,692,553.
 Solomon, Paul W., 3,636,159.
 Sonnenfeld, Richard J., 3,635,685.
 Spann, Donald C., 3,674,618.
 Spivy, Paul L., 3,655,856.
 Stacy, Galen D.; and Rohlfing, Raymond G., 3,672,070.
 Stansbury, Roy E.; and Shotton, James A., 3,643,450.
 Stapp, Paul R., 3,639,669.
 Stapp, Paul R., 3,644,427.
 Stapp, Paul R., 3,644,495.
 Stapp, Paul R., 3,644,496.
 Stapp, Paul R.; Nowack, Gerhard P.; and Johnson, Marvin M., 3,651,092.
 Stapp, Paul R., 3,651,093.
 Stapp, Paul R., 3,657,326.
 Stapp, Paul R., 3,658,923.
 Stapp, Paul R., 3,669,992.
 Stapp, Paul R., 3,681,471.
 Stewart, Dan F., 3,650,431.
 Stewart, William S.; and Vanderveen, John W., 3,645,863.
 Stratton, Charles A., 3,659,650.
 Streets, William L.; and Glenn, Charles O., 3,682,812.
 Strobel, Charles W., 3,646,142.
 Tabler, Donald C., 3,651,158.
 Tabler, Donald C.; and Johnson, Marvin M., 3,651,164.
 Tabler, Donald C.; and Johnson, Marvin M., 3,668,265.
 Tabler, Donald C., 3,676,513.
 Tabler, Donald C., 3,692,852.
 Temple, Harry F.; and Thomas, Robert L., 3,650,090.
 Thomas, Warren M., 3,637,350.
 Thomas, William E.; and Roush, Gale S., 3,637,234.
 Thomas, William E., 3,677,180.
 Thompson, James K., 3,636,608.
 Thornhill, William J.; and Welty, Richard O., 3,649,842.
 Tieszen, Dale O., 3,634,125.
 Tompkins, Harold W., 3,660,492.
 Trepka, William J.; and Sonnenfeld, Richard J., 3,640,988.
 Trepka, William J., 3,673,166.
 Trepka, William J., 3,699,055.
 Truce, William E.; and Horvath, Elizabeth G., 3,637,601.
 Tucker, Alvin S., 3,669,598.
 Turk, Stanley D.; and Williams, Ralph P., 3,644,470.
 Turk, Stanley D., 3,689,465.
 Turner, Edward W., 3,662,048.
 Turner, Edward W., 3,699,201.
 Uraneck, Carl A.; Trepka, William J.; and Brown, James D., 3,642,922.
 Uraneck, Carl A.; and Burleigh, John E., 3,664,978.
 Uraneck, Carl A.; and Trepka, William J., 3,674,753.
 Uraneck, Carl A.; and Burleigh, John E., 3,681,300.
 Ursic, Juan S.; and Rains, Cloral O., 3,638,916.
 Vanderveen, John W.; Cheng, Paul J.; Mills, K. Louis, Jr.; Venable, Charles R., Jr.; and Johnson, Paul H., 3,676,070.
 Vanderveen, John W., 3,696,168.
 VanPool, Joe, 3,658,695.
 Vautrain, Lucien H.; and Lortz, Russell W., 3,691,728.
 Voss, Raymond G., 3,635,625.
 Voss, Raymond G.; and Ramsay, Ray D., 3,647,597.
 Voss, Raymond G., 3,684,140.
 Walczak, Zbigniew K., 3,659,988.
 Walker, Darrell W., 3,640,901.
 Walker, Darrell W., 3,668,151.
 Walker, Harry L., 3,697,384.
 Walters, Harold C., 3,666,795.
 Warner, Paul F.; and Stanley, James W., Jr., 3,637,862.
 Warner, Paul F.; and Huxley, Edward E., 3,640,736.
 Warner, Paul F., 3,689,450.
 Williams, George F.; and Held, Edward C., Jr., 3,666,849.
 Williams, Keith A., 3,691,051.
 Williams, Ralph P., 3,641,099.
 Williams, Ralph P., 3,689,549.
 Williams, Ralph P., 3,707,507.
 Wilson, Joseph F., 3,660,068.
 Wilson, Joseph F.; and Southworth, Wallace D., 3,692,511.
 Wilt, Mason S., 3,668,162.
 Wood, Harold V.; and Brown, Terry D., 3,677,994.
 Wood, Harold V.; and Brown, Terry D., 3,699,087.
 Woodruff, Gene N., 3,651,000.
 Wright, Roy F., 3,652,720.
 Wright, Roy F., 3,654,212.
 Young, Jerry W., 3,664,901.
 Young, Richard K., 3,655,480.
 Young, Richard K.; and Dockery, Calvin D., 3,655,848.
 Zahn, Carl W., 3,633,338.
 Zelinski, Robert P.; and Sonnenfeld, Richard J., 3,663,480.
 Zuech, Ernest A., 3,703,555.
 Phillips, Phillip. Writing implement. 3,687,561, 8-29-72, Cl. 401-134,000.
 Phillips, Prella M., to Dow Chemical Company, The. Process for preparing polyurethanes. 3,704,270, 11-28-72, Cl. 260-77.5ac.
 Phillips, Ralph L.; and Ballou, John L. Dump system. 3,659,899, 5-2-72, Cl. 298-22.
 Phillips, Raymond Henry: See—
 Findlay, Peter M.; and Phillips, Raymond Henry, 3,631,690.
 Phillips, Richard A.: See—
 Battle, James; and Phillips, Richard A., 3,691,503.
 Phillips, Robert A., to Motorola, Inc. Short circuit proof flasher circuit. 3,663,860, 5-16-72, Cl. 315-200.
 Phillips, Robert F., to Ethyl Corporation. Combination valve and coupling. 3,642,252, 2-15-72, Cl. 251-145.
 Phillips, Robert F., to Ethyl Corporation. Pipe saddle. 3,694,009, 9-26-72, Cl. 285-197,000.
 Phillips, Robert James; Reasor, Robert L.; and Wiley, Donald F. Egg carton latching design. 3,688,971, 9-5-72, Cl. 229-44,00r.
 Phillips, Ronald, to Motorola, Inc. Speed responsive devices. 3,650,125, 3-21-72, Cl. 64-25.
 Phillips, Rudolph M.: See—
 Lombana, Cesar A.; Phillips, Rudolph M.; and Gregg, Richard, 3,652,293.
 Phillips, Russell B. Blade structure for mowers and edgers. 3,681,903, 8-8-72, Cl. 56-295,000.
 Phillips, Russell J., to Universal Oil Products Company. Method of making a resin impregnated filament wound article. 3,651,560, 3-28-72, Cl. 29-423.
 Phillips Screw Company: See—
 Runton, Leslie A., 3,694,838.
 Phillips, Sidney L., to International Business Machines Corporation. Process for electroplating magnetic films for high density recording. 3,704,211, 11-28-72, Cl. 204-43,000.
 Phillips, Walt, to Commodity Improvements Inc. Additives for combustible fuels. 3,634,051, 1-11-72, Cl. 44-51.
 Phillips, Walt, to Commodity Improvements, Inc. Heptadecanol for medical purposes. 3,646,215, 2-29-72, Cl. 424-343.
 Phillips, Walt, to Commodity Improvements Inc. K₂ZrF₆. 3,647,700, 3-7-72, Cl. 252-89.
 Phillips, Wendell Gary, to Monsanto Company. 2,6-Diorgano-1,5-dithia-2,6-diazacyclo octane-3,4,7,8-tetraones and their manufacture. 3,694,434, 9-26-72, Cl. 260-239,30r.
 Phillips, Wendell Gary. 4,4,8,8-Tetra chloro-2,6-diorgano-1,5-dithia-2,6-diazacyclo-octane-3,7-diones and their manufacture. 3,694,435, 9-26-72, Cl. 260-239,30r.
 Phillips, Wendell Gary, to Monsanto Company. Insecticidal methods using N-substituted heterocyclic phenacyl halides and ylids. 3,702,361, 11-7-72, Cl. 424-263,000.
 Phillips, Willard C.: See—
 Griffin, Phil, III; and Phillips, Willard C., 3,658,015.
 Phillips, William: See—
 Glass, Robert I.; Phillips, William; and House, William R., 3,695,125.
 Phillips, William, to RCA Corporation. Doped callium fluoride and strontium fluoride photochromic compositions. 3,684,727, 8-15-72, Cl. 252-300,000.

- Phillips, William A., to Granco Equipment, Inc. Incinerator with extended heat exchange surface. 3,670,668, 6-20-72, Cl. 110-8.
- Phillips, William H., Jr., to Carmet Company. Die assembly. 3,680,340, 8-1-72, Cl. 72-36.000.
- Phillips, William H., Jr., to Allegheny Ludlum Steel Corporation. Die assembly. 3,680,354, 8-1-72, Cl. 72-467.000.
- Phillipson, John Maddison: *See—*
- Hynds, John; Phillipson, John Maddison; and Vickers, Edward Jervis, 3,694,408.
- Philofsky, Elliott M.; and Ritchie, Kim, to Motorola, Inc. Intermetallic passivation of aluminum metallization. 3,647,935, 3-7-72, Cl. 174-68.5.
- Philograph Publications Limited: *See—*
- Tacey, Charles Arthur, 3,636,230.
- Philosophos, John A.: *See—*
- Manion, Jean P.; Philosophos, John A.; and Robinson, Marquis B., 3,650,955.
- Philosky, Harold M.: *See—*
- Heller, Paul R.; Brenner, William C.; and Philosky, Harold M., 3,647,932.
- Philpott, Peter George: *See—*
- Osmond, John Mervyn; and Philpott, Peter George, 3,655,684.
- Philpott, Peter John: *See—*
- Boertje, Arie Leendert; and Philpott, Peter John, 3,696,735.
- Phinizy, R. B.: *See—*
- Hedin, Robert A.; and Pantas, Leo J., 3,662,342.
- Phinizy, R. B., mesne: *See—*
- Hedin, Robert A., 3,633,167.
- Hedin, Robert A., 3,641,498.
- Phinney, Earl M.: *See—*
- Digney, Frank J., Jr.; and Phinney, Earl M., 3,704,393.
- Phinney, Richard R., to International Business Machines Corporation. Rotational mechanism. 3,645,229, 2-29-72, Cl. 118-48.
- Phippen, Arnold M. Portable ore classifiers and conditioners. 3,653,505, 4-4-72, Cl. 209-44.
- Phipps, Arthur L. Extrusion machine. 3,704,083, 11-28-72, Cl. 425-71.000.
- Phipps, Charles M., Jr.: *See—*
- Boucher, Raymond R.; and Phipps, Charles M., Jr., 3,667,533.
- Phipps, Larry K., to Texas Instruments, Incorporated. Slurry agitator. 3,638,919, 2-1-72, Cl. 259-95.
- Phipps, Nelson S.: *See—*
- Donnelly, James F.; Gee, Wendell P.; and Phipps, Nelson S., 3,701,286.
- Phlieger, Graydon A., Jr., to United States of America, National Aeronautics and Space Administration. Universal environment package with sectional component housing. 3,639,809, 2-1-72, Cl. 317-117.
- Phlieger, Graydon A., Jr., to National Aeronautics and Space Administration. Pressurized lighting system. 3,673,424, 6-27-72, Cl. 307-118.000.
- Philpot, Georges A.; Michiels, Marie-Jose-Suzanne; and de Villeneuve, Yolande-Paule Marie-Josephe, to Eastman Kodak Company. Novel light-sensitive copolyesters. 3,674,745, 7-4-72, Cl. 260-75.0va.
- Phoenix, Lancelot: *See—*
- Harris, Paul Anthony; and Phoenix, Lancelot, 3,665,903.
- Ingram, Brian; Harries, David Anthony; and Phoenix, Lancelot, 3,694,038.
- Ingram, Brian; Harries, David Anthony; and Phoenix, Lancelot, 3,703,319.
- Ingram, Brian; Harries, David A.; and Phoenix, Lancelot, 3,704,044.
- Phoenix, Lancelot; and Taylor, Joseph David Foulkes, to Lucas, Joseph, (Industries) Limited. Circuitry means to enable the automatic dialling of telephone numbers without lifting the handset. 3,662,118, 5-9-72, Cl. 179-90.
- Phonocopy, Inc.: *See—*
- Goble, Ralph W., 3,707,601.
- Gray, Thomas J.; Picchiottino, John B.; and Hackett, Kenneth R., 3,694,574.
- Phonocopy, Inc., mesne: *See—*
- Salaman, Roy G.; and Picchiottino, John B., 3,674,922.
- Phonplex Corporation, mesne: *See—*
- Slavin, Martin J., 3,641,496.
- Photis, James Mitchell: *See—*
- Fine, Leonard Wolfe; Matsuda, Ken; and Photis, James Mitchell, 3,699,164.
- Photo Corporation of America: *See—*
- Davis, Stuart C., 3,701,308.
- Photo Film Co., Ltd.: *See—*
- Kitajima, Masao; Yamaguchi, Tsutomu; Kondo, Asaji; and Murcya, Noriyuki, 3,691,090.
- Photo-Motion Corporation: *See—*
- Eaves, Robert B., 3,643,361.
- Photocircuits Corporation: *See—*
- Burr, Robert Page, 3,646,572.
- Burr, Robert Page, 3,674,914.
- Keogh, Raymond J.; and Wilczek, Frank J., 3,674,602.
- Lemecha, Bogdan, 3,661,638.
- Schneble, Frederick W., Jr.; McCormack, John F.; and Zeblysky, Rudolph J., 3,635,758.
- Tucker, William B., 3,648,360.
- Photocircuits; division of Kollmorgen Corporation: *See—*
- Paunovic, Milan, 3,645,749.
- Schneble, Frederick W., Jr.; Zeblysky, Rudolph J.; McCormack, John F.; and Williamson, John Duff, 3,650,777.
- Zeblysky, Rudolph J., 3,672,923.
- Zeblysky, Rudolph J., 3,682,671.
- Photogramics, Inc.: *See—*
- Dicus, Allen B., Jr.; Kharasch, Arnold S.; and Lavin, Sheldon, 3,682,063.
- Photosystems Corporation: *See—*
- Fouquart, John, 3,671,745.
- Lysle, Gordon; and Bonagura, Ronald, 3,696,722.
- Phototron Co.: *See—*
- Stebly, Ralph E., 3,659,514.
- Photovolt Corporation: *See—*
- Dahms, Harald; Levy, Gabor B.; and Seltzer, David M., 3,682,783.
- Photronic International Establishment: *See—*
- Vital, Zoltan; and Orban, Jean, 3,673,485.
- Phua, Mee See: *See—*
- Plakas, Chris J.; and Phua, Mee See, 3,676,584.
- Phung, Nhu Hung; and Le Febvre, Gilles, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for manufacturing titanium trichloride, the catalysts obtained therefrom and their uses in the polymerization of polymerizable monomers. 3,640,98, 2-8-72, Cl. 260-93.7.
- Phys-Chemical Research Corporation: *See—*
- Hershler, Abe, 3,705,375.
- Physical Electronics Industries, Inc.: *See—*
- Ballou, Richard P., 3,688,173.
- Physics International Company: *See—*
- Godfrey, Charles S., 3,695,715.
- Neill, Cormac G.; and Smiley, Parker C., 3,648,967.
- O'Neill, Cormac G., 3,688,750.
- O'Neill, Cormac G., 3,690,307.
- O'Neill, Cormac Garrett, 3,649,856.
- Physics International Company, mesne: *See—*
- Benson, Glendon M., 3,635,016.
- Physikalisch-Technisches Entwicklungsburolaing: *See—*
- Ludin, Ludwig, 3,696,634.
- Physio-Control Corporation: *See—*
- Kawaguchi, Harold H., 3,685,645.
- Physitech, Inc.: *See—*
- Starer, Robert L., 3,676,736.
- Piacentino, Thomas J., to Longwood Development Corporation. Apparatus for working the compost of mushroom beds. 3,704,752, 12-5-72, Cl. 172-116.000.
- Piacesi, Dante, Jr.: *See—*
- Sternberg, Hyman M.; Piacesi, Dante, Jr.; and Katz, Howard, 3,675,577.
- Pian, Charles H. C.: *See—*
- Berman, Elliot; McLeod, Gerald L.; Pian, Charles H. C.; Stein, Samuel H.; and Pian, Juliette F., 3,658,528.
- Pian, Juliette F.: *See—*
- Berman, Elliot; McLeod, Gerald L.; Pian, Charles H. C.; Stein, Samuel H.; and Pian, Juliette F., 3,658,528.
- Piana, Francesco; and Brega, Angelo. Mecmor S.p.A. Device for cutting and gripping threads in circular knitting machines and the like. 3,640,094, 2-8-72, Cl. 66-19.
- Piana, Renato. Roll-type blinds for windows. 3,642,050, 2-15-72, Cl. 160-133.
- Piano, Anthony P., Jr.: *See—*
- Zabroski, Frank; McDonald, Walter; Piano, Anthony P., Jr.; and Seitel, Norbert J., 3,658,168.
- Piasecki Aircraft Corporation: *See—*
- Korsak, Kazimierz, 3,640,185.
- Piasecki, Frank N.; and Meyers, Donald N., 3,656,723.
- Piasecki, Felix J.: *See—*
- Nickelsen, Hubert O.; Kopanda, Joseph E.; and Piasecki, Felix J., 3,677,781.
- Piasecki, Frank N.; and Meyers, Donald N., to Piasecki Aircraft Corporation. Multiple helicopter lift system. 3,656,723, 4-18-72, Cl. 244-2.
- Piasecki, Frank N. Hoist system. 3,661,415, 5-9-72, Cl. 294-81.
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- Piatkowski, Rudiger: *See—*
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- Piatt, John M.: *See—*
- Murphy, Clarence R.; Onopchenko, Anatoli; Piatt, John M.; and Seekircher, Richard, 3,644,499.
- Piattelli, Giuseppe, to Officine Meccaniche Santa Lucia A.S.A. Machine for beaming knitted fabrics of common and anti-ladder type or the like on to dyeing beams or cardboard rollers. 3,675,868, 7-11-72, Cl. 242-67.100.
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- Piazza, Aldo. Crampon. 3,685,173, 8-22-72, Cl. 36-7.600.
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- Piazza, Emanuel F.: *See—*
- Goetz, Frederick J., Jr.; and Piazza, Emanuel F., 3,650,584.
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- Piazze, Thomas E., to Continental Can Company, Inc. Contour bottom bag. 3,690,545, 9-12-72, Cl. 229-57.000.
- Piazze, Thomas E., to Continental Can Company, Inc. Apparatus for making heat sealed tubes. 3,694,289, 9-26-72, Cl. 156-380.000.
- Piber, Earl T., to Cutler-Hammer, Inc. Integral reversing trigger switches for speed controlled portable tools. 3,632,936, 1-4-72, Cl. 200-157.
- Pic Design Corporation: *See—*
- Wertman, Louis, 3,679,809.
- Wesker, Lew, 3,645,161.
- Pic-Air Inc.: *See—*
- Picker, Franck M., 3,706,337.
- Picard, Clarence J.: *See—*
- Garrahan, William F.; Madden, Edwin J.; and Picard, Clarence J., 3,699,959.
- Picard, Claude Andre, to Tissmetal Lionel-Dupont. Light projectors. 3,693,000, 9-19-72, Cl. 240-41.600.
- Picard, Claude W.: *See—*
- Bream, John B.; and Picard, Claude W., 3,634,508.
- Bream, John Bernard; and Picard, Claude W., 3,632,645.
- Picard, Jean L., to International Business Machines Corporation. Data transmission method and serial loop data transmission system. 3,633,166, 1-4-72, Cl. 340-163.
- Picard, Jean P.: *See—*
- Bobinski, Jack; and Picard, Jean P., 3,706,280.
- Voigt, H. William, Jr.; Pell, Lawrence W.; and Picard, Jean P., 3,706,609.
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- Picard, Jean P.; and Voight, H. William, Jr., to United States of America, Army. Process and composition for use in munitions containing white phosphorus. 3,694,278, 9-26-72, Cl. 149-29.000.
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- Picard, Joseph Albert, Jr.: *See—*
- Dunne, Maurice J.; Correll, Robert E.; and Picard, Joseph Albert, Jr., 3,654,616.
- Picard, Karl-Heinz; and Beierer, Joachim, to Siemens Aktiengesellschaft. Hydraulic drive for electric switches. 3,679,909, 7-25-72, Cl. 307-144.000.
- Picard, Salvatore A.: *See—*
- Naubereit, Henry; and Picard, Salvatore A., 3,688,202.
- Piccagli, Ugo. Clam shell excavator. 3,693,274, 9-26-72, Cl. 37-187.000.
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- Gray, Thomas J.; Picchiottino, John B.; and Hackett, Kenneth R., 3,694,574.
- Salaman, Roy G.; and Picchiottino, John B., 3,674,922.
- Picciano, James K.; and Zauchner, Joseph, to International Business Machines Corporation. FET decode circuit. 3,702,926, 11-14-72, Cl. 235-154.000.
- Picciolo, Grace L.: *See—*
- Chappelle, Emmett W.; and Picciolo, Grace L., 3,660,240.
- Piccione, Sebastian W. Jammed paper detector. 3,659,081, 4-25-72, Cl. 235-92.
- Picciulli, Albert T.; Cochrane, Frederick P.; and Redner, Eugene S., to Honeywell Inc. Apparatus including delay means for detecting the absence of information in a stream of bits. 3,652,943, 3-28-72, Cl. 328-120.
- Piccitto, Francesco. Pedal operated water sport vehicle. 3,704,682, 12-5-72, Cl. 115-26.300.
- Piccola, Richard C., to Celotex Corporation. The. Adjustable light fixture for U-shaped lamps. 3,704,212, 11-28-72, Cl. 240-51.120.
- Piccolini, Richard J., to Rohm & Haas Company. Oil-soluble azo compounds. 3,634,493, 1-11-72, Cl. 260-482.
- Piccolini, Richard J., to Rohm & Haas Company. Compositions containing oil-soluble azo compounds. 3,684,713, 8-15-72, Cl. 252-47.500.
- Piccolo, Jerry, to Advance Metal Products, Inc. Electric sonic device for cleaning small articles. 3,640,294, 2-8-72, Cl. 134-217.
- Piccone, Dante E.; and Somos, Istvan, to General Electric Company. Thyristor overvoltage protective circuit. 3,662,250, 5-9-72, Cl. 321-11.
- Piccotti, Enzo: *See—*
- Alcock, David Gerald; Brown, John Colin; Piccotti, Enzo; and Jungius, Vorman John, 3,702,248.
- Piccotti, Enzo, to Ilford Limited. Color photographic process using a bleach-fix solution containing a metal complex of a selenium compound. 3,701,662, 10-31-72, Cl. 96-55.000.
- Picke, Charles Richard; and van Hoek, Cornelis, to American Machine & Foundry Company. Evaporating-concentrating apparatus and method. 3,699,007, 10-17-72, Cl. 203-40.000.
- Pich, Rene: *See—*
- Bonnard, Lucien; Pich, Rene; and Palsky, Alain, 3,663,509.
- Pich, Rene; and Vaginay, Yves, to Societe Rhodiaca. Injection molded-branched polyesters. 3,692,744, 9-19-72, Cl. 260-75.00t.
- Pichal, Henri T., to Honeywell Information Systems, Inc. High gain, ultra linear detector for frequency modulation. 3,676,785, 7-11-72, Cl. 329-103.000.
- Pichel Industries, Inc.: *See—*
- Levy, Stanley P., 3,675,078.
- Pichel, Marlowe A., 3,639,751.
- Pichel, Marlowe A., to Pichel Industries, Inc. Thermally dissipative enclosure for portable high intensity illuminating device. 3,639,751, 2-1-72, Cl. 240-47.
- Pichert, Jerome: *See—*
- Haas, David J.; and Pichert, Jerome, 3,689,790.
- Pichler, Erika: *See—*
- Volker, Theodor; and Pichler, Erika, 3,666,805.
- Pichon, James D.: *See—*
- Kruse, Frederick V.; and Pichon, James D., 3,695,632.
- Pick, Steve J. Vehicle tilt indication apparatus. 3,701,093, 10-24-72, Cl. 340-52.00h.
- Pick, Werner: *See—*
- Minkner, Ruthard; and Pick, Werner, 3,633,608.
- Pickard, Henry M. Hattersley. Electrically heated steam-raising autoclave. 3,674,981, 7-4-72, Cl. 219-401.000.
- Pickard, Henry Maurice Hattersley. Swing bolts. 3,664,700, 5-23-72, Cl. 292-256.75.
- Pickard, John E., to Ball Brothers Company Incorporated. Printing plate processing method. 3,660,089, 5-2-72, Cl. 96-48.
- Picken, James B. Swim film. 3,665,535, 5-30-72, Cl. 9-304.000.
- Pickens, Paul D. Pump. 3,677,661, 7-18-72, Cl. 415-199.000.
- Picker Corporation: *See—*
- Atlee, Zed J.; and Pleil, Viktor W., 3,649,861.
- Goldman, Samuel C.; and Albrecht, Lance M., 3,697,956.
- Martone, Ronald J.; Mueller, Peter G.; and Flis, Richard J., 3,683,180.
- Martone, Ronald J.; and Mueller, Peter G., 3,697,753.
- Meyer, Fred H., 3,642,357.
- Palermo, Anthony J.; and Husick, Charles B., 3,668,402.
- Shuster, Ronald F., 3,643,095.
- Picker Corporation, mesne: *See—*
- Brunett, Carl J.; and Payne, Donald C., 3,683,184.
- Mueller, Peter G., 3,683,284.
- Picker, Franck M., to Pic-Air Inc. Force-balanced die casting apparatus. 3,706,337, 12-19-72, Cl. 164-303.000.
- Picker X-ray Mfg. Limited: *See—*
- Bridgeman, Cecil K., 3,684,276.
- Picker-Andrex X-ray A/S: *See—*
- Jakobsen, Niels, 3,663,942.
- Jakobsen, Niels, 3,702,934.
- Pickering & Company, Inc.: *See—*
- Chass, Jacob, 3,663,911.
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- Stanton, Walter O., 3,646,279.
- Pickering, Alan Hugh, to English Electric Valve Company Limited. Magnetrons. 3,659,145, 4-25-72, Cl. 315-39.55.
- Pickering, Alan Hugh, to English Electric Valve Company Limited. Electron discharge tubes. 3,707,639, 12-26-72, Cl. 313-30.000.
- Pickering, Charles E.: *See—*
- Mindler, Fredric A.; and Pickering, Charles E., 3,659,798.
- Pickering, John J. Fishing rig and means for handling same. 3,664,054, 5-23-72, Cl. 43-19.000.
- Pickering, Richard W.: *See—*
- Buchholz, Donald E.; Miller, Robert E.; Pickering, Richard W.; and White, Douglas L., 3,634,887.
- Pickering, Timothy Lee: *See—*
- Brode, George Lewis; and Pickering, Timothy Lee, 3,640,965.

- Pickert, Paul Eugene, to Union Carbide Corporation. Process for preparing superisole zeolites. 3,640,681, 2-8-72, Cl. 23-111.
- Pickett, Charles G.; Lang, Robert A.; and Comers, Robert C., to Bio-Medical Sciences, Inc. Dispenser for disposable type thermometers. 3,677,866, 7-18-72, Cl. 156-584.000.
- Pickett, Charles G.; and Chadha, Desh D., to Bio-Medical Sciences, Inc. Temperature indicator. 3,704,985, 12-5-72, Cl. 73-356.000.
- Pickett, David A., to Ross Operating Valve Company. Resilient seal spool valve. 3,680,596, 8-1-72, Cl. 137-625.690.
- Pickett, Eugene W.: *See—*
- Vanlingen, George A.; and Pickett, Eugene W., 3,690,715.
- Pickett, John E. P. Microscopy tissue receptacle method. 3,697,299, 10-10-72, Cl. 117-3.000.
- Pickett, John E. P. Method utilizing a disposable blade in microtome cutting. 3,699,830, 10-24-72, Cl. 83-13.000.
- Pickett, Oscar A., Jr.: *See—*
- Holmer, Donald A.; and Pickett, Oscar A., Jr., 3,651,022.
- Ridgway, James S.; and Pickett, Oscar A., Jr., 3,647,761.
- Ridgway, James S.; King, Henry L.; and Pickett, Oscar A., Jr., 3,674,752.
- Pickett, Theodore C. Binocular viewing device. 3,655,264, 4-11-72, Cl. 350-145.000.
- Pickett, Wiley J.; and Smith, Bynum E., said Bynum assor. to Utility Industries, Inc. Electrical junction for high-current conductors and connector and method suitable for making same. 3,673,313, 6-27-72, Cl. 174-90.000.
- Pickholtz, Raymond L., to International Business Machines Corporation. Coherent single sideband phase locking technique. 3,675,131, 7-4-72, Cl. 325-329.000.
- Pickin, John Harlan, to Colgate-Palmolive Company. Bleaching packets. 3,634,260, 1-11-72, Cl. 252-95.
- Pickles, Cynthia Joan; and Bishop, Nigel Douglas, to Imperial Chemical Industries Limited. Pesticidal carbamate derivatives of naphthaquinones. 3,705,914, 12-12-72, Cl. 260-396.00r.
- Pickles, Harry, to USM Corporation. Cutting press controls. 3,690,206, 9-12-72, Cl. 83-537.000.
- Pickles, Joseph, to Ferro Manufacturing Corporation. Window regulator mechanism. 3,659,466, 5-2-72, Cl. 74-89.180.
- Pickles, Joseph, to Ferro Manufacturing Corporation. Automobile door lock. 3,672,713, 6-27-72, Cl. 292-216.000.
- Pickles, Joseph, to Ferro Manufacturing Corporation. Reclining seat adjuster. 3,673,891, 7-4-72, Cl. 74-804.000.
- Pickles, Joseph; and Fudala, Chester S., to Ferro Manufacturing Corporation. Tubular valve and body structure. 3,674,238, 7-4-72, Cl. 251-309.000.
- Pickles, Joseph, to Ferro Manufacturing Corporation. Window regulator. 3,706,163, 12-19-72, Cl. 49-362.000.
- Pickles, Joseph, to Ferro Manufacturing Corporation. Tailgate window regulator. 3,706,236, 12-19-72, Cl. 74-89.110.
- Pickles, Wilfred, to Ciba-Geigy Corporation. Tin-plating method and electrolyte. 3,677,910, 7-18-72, Cl. 204-54.00r.
- Picklesimer, Lewellyn G., to United States of America, Air Force. Polymers containing nitrile and thioamide groups and their preparation. 3,687,908, 8-29-72, Cl. 260-79.5nv.
- Pickron, Roger R., to Textron, Inc. Molded plastic wheel structure. 3,666,322, 5-30-72, Cl. 301-63.0pw.
- Pico Safe Stairs Co.: *See—*
- Multz, Thomas C., 3,672,106.
- Picot, Clement, to Societe d'Instrumentation Schlumberger. Analog circuit for an analog-to-digital converter of the dual-slope integrating type. 3,660,834, 5-2-72, Cl. 340-347.
- Pica, Patrice, to Aluminium Suisse SA, mesne. Method for retaining objects in a container. 3,680,279, 8-1-72, Cl. 53-26.000.
- Picquendar, Jean Edgar; and Torguet, Roger, to Thomson-CSF. Read-out system for memories comprising matrices of photosensitive elements. 3,641,513, 2-8-72, Cl. 340-173.
- Picquendar, Jean-Edgar: *See—*
- Cahen, Olivier; Picquendar, Jean-Edgar; and Pircher, Georges, 3,648,048.
- Pict Limited: *See—*
- Mundy, Frank Percival, 3,703,917.
- Picunko, Thomas: *See—*
- Bucher, Paul E.; and Picunko, Thomas, 3,669,551.
- Picut, Frederick: *See—*
- Reick, Franklin G., 3,638,644.
- Picut, Frederick R.: *See—*
- Reick, Franklin G.; and Wilder, Joseph R., 3,641,332.
- Pid Corporation: *See—*
- Leach, Sam L., 3,678,833.
- Pid Corporation, mesne: *See—*
- Rice, Harold D.; and Leach, Sam L., 3,635,778.
- Pida, George, to United States of America, Navy. Variable reluctance magnetic field transducer. 3,691,515, 9-12-72, Cl. 340-8.00r.
- Pidebois, Jacques Eloï: *See—*
- Baiger, Louis Jules; Beyler, Roland Robert Charles; Le Guen, Henri; Pidebois, Jacques Eloï; and Schenher, Michel Bernard, 3,677,013.
- Pidgeon, Eric: *See—*
- Love, Dennis Anthony; Neal, David Patrick John; and Pidgeon, Eric, 3,641,001.
- Piech, Ferdinand, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Drive chain for driving shafts on wheels, especially for camshaft drives of internal combustion engines. 3,707,092, 12-26-72, Cl. 74-245.00r.
- Piech, Ferdinand K.; and Mezger, Hans, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Connecting rod, especially forked connecting rod for internal combustion engines. 3,682,018, 8-8-72, Cl. 74-579.00e.
- Piech, Ferdinand V., to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Combined crankshaft for multi-cylinder piston engines, especially internal combustion engines. 3,704,636, 12-5-72, Cl. 74-597.000.
- Piechota, Helmut: *See—*
- Diehr, Hans Joachim; Merten, Rudolf; Uhlig, Konrad; Piechota, Helmut; and Weber, Christian, 3,634,345.
- Pieck, Christian; and Schaumburg, Guenter, to Societe d'Exploitation des Brevets Neiman S.A. Safety device for anti-theft device. 3,633,394, 1-11-72, Cl. 70-309.
- Pied, Jean-Philippe, to Societe Ethylene Plastique. Stabilisers for polysulphides. 3,676,395, 7-11-72, Cl. 260-45.90r.
- Piedallu, Marcel M. Oscillating deep fryer. 3,635,150, 1-18-72, Cl. 99-409.
- Piedallu, Marcel M. Oscillating deep fryer. 3,688,684, 9-5-72, Cl. 99-409.000.
- Piedboeuf, Georges, to Bombardier Limited. Snowmobile ski leg. 3,693,992, 9-26-72, Cl. 280-26.000.
- Piezza, Henry J., to Welding & Steel Fabrication Co., Inc. Sheaved pressure vessel unit. 3,680,569, 8-1-72, Cl. 134-64.000.
- Piezza, Henry John, to Welding & Steel Fabrication Co., Inc. Pivotal quick disconnect fluid flow coupling. 3,700,267, 10-24-72, Cl. 285-24.000.
- Pieh, Gerhard: *See—*
- Knoer, Peter; and Pieh, Gerhard, 3,644,179.
- Piekarski, William F.: *See—*
- Manasian, Arthur E.; Papenfuss, Carl J.; and Piekarski, William F., 3,674,139.
- Piekenbrink, Rolf; and Reinhardt, Albert. Pressure casting machine with pressure increase system. 3,693,702, 9-26-72, Cl. 164-314.000.
- Pielkenrood, Jacob; and Ambrosius, Willem L. B., to Pielkenrood-Vinitex N.V. Separation device. 3,666,111, 5-30-72, Cl. 210-521.
- Pielkenrood Jacob; and Ambrosius, Willem L. B., to Pielkenrood-Vinitex N.V. Separation device. 3,666,112, 5-30-72, Cl. 210-521.000.
- Pielkenrood-Vinitex N.V.: *See—*
- Pielkenrood, Jacob; and Ambrosius, Willem L. B., 3,666,111.
- Pielkenrood Jacob; and Ambrosius, Willem L. B., 3,666,112.
- Pien, Jean Lucien Joseph, to Genvrain. Extracting proteins from lactoserum. 3,644,326, 2-22-72, Cl. 260-122.
- Pienezza, Jesse W.: *See—*
- Sellers, Aubrey G., 3,702,197.
- Pieper, Charles Joseph; and Langmead, Edmund Clarence, Jr., to Chicago Bridge & Iron Company. Converter vessel with heat shield about its tap hole. 3,682,460, 8-8-72, Cl. 266-35.000.
- Pieper, Don B., to Whim, Inc. Independent ignition engine. 3,672,164, 6-27-72, Cl. 60-39.380.
- Pieper, Friedrich: *See—*
- Plapper, Jurgen; and Pieper, Friedrich, 3,661,631.
- Pieper, Kenneth M.; and Gibson, Thomas W., to Procter & Gamble Company, The. 3-Endo-methyl-3-exo(4'-methylpentan-1-yl)-2-methylenebicyclo [2.2.1] heptane and process for preparing same. 3,673,256, 6-27-72, Cl. 260-598.000.
- Pieper, Louis W.; and Kerr, Robert O., to General Electric Company. Apparatus for controlling the coating of selected surfaces of an article of manufacture. 3,638,606, 2-1-72, Cl. 118-69.
- Pieper, Wolfgang, to Siemens Aktiengesellschaft. Coupling components for electric machine. 3,636,393, 1-18-72, Cl. 310-71.
- Piepers, Gijsbrecht G.; Vons, Leonard H.; Van Der Linde, Aart; and Lijbrink, Eduard, to Reactor Centrum Nederland. Spacer grid respectively plate spring for a bunch of cylindrical elements taking part in a heat-exchanging-process. 3,646,994, 3-7-72, Cl. 16-69.
- Piepho, Donald A.: *See—*
- Asal, Jerrold R.; and Piepho, Donald A., 3,670,825.
- Piepho, Donald A., to Caterpillar Tractor Company. Track adjusting and recoil mechanism. 3,645,586, 2-29-72, Cl. 305-10.
- Piepmeyer, Carl W.: *See—*
- Poffenbaugh, Donald E.; and Piepmeyer, Carl W., 3,637,045.
- Piepmeyer, Joseph A., to Emery Industries, Inc. Drycleaning method. 3,635,656, 1-18-72, Cl. 8-142.
- Pierart, Robert, to Babcock-Atlantic. Welding construction for multilayered devices. 3,680,584, 8-1-72, Cl. 137-143.000.
- Pierburg, A. Auto- und Luftfahrt-Geratebau KG: *See—*
- Sieper, Horst, 3,635,598.
- Pierburg Luftfahrtgerate Union GmbH: *See—*
- Holzem, Heinz, 3,633,420.
- Holzem, Heinz; and Henning, Hans-Joachim, 3,659,091.
- Pierce, Andrew Earl, to Borden, Inc. Water and heat resistant adhesive. 3,671,382, 6-20-72, Cl. 161-214.000.
- Pierce, Arleen C., to Allied Chemical Corporation. Photochemical process for preparing beta-thiolactones. 3,661,743, 5-9-72, Cl. 204-158.
- Pierce, Boyd J., Jr. Universal four barrel carburetor adapter. 3,678,962, 7-25-72, Cl. 138-39.000.

- Pierce, Chardo, Micronizing Company: *See—*
- Pierce, Chardo W., 3,694,220.
- Pierce, Chardo W., 3,701,670.
- Pierce, Chardo W., to Pierce, Chardo, Micronizing Company. Infrared radiation of seed. 3,694,220, 9-26-72, Cl. 99-2.000.
- Pierce, Chardo W., to Pierce, Chardo, Micronizing Company. Infrared micronizing cooker. 3,701,670, 10-31-72, Cl. 99-235.00a.
- Pierce, Earl W., to General Motors Corporation. Gas flow baffle for wave interference silencing system. 3,648,802, 3-14-72, Cl. 181-44.
- Pierce, Edward W.: *See—*
- Schmersal, Larry J.; Miavec, Joseph L.; Pierce, Edward W.; and Wojcik, David S., 3,665,455.
- Pierce, Edwin A.; Knob, Richard W.; Roth, Samuel O.; and McKinney, Emery L., to Inland Systems, Inc. Building construction. 3,643,393, 2-22-72, Cl. 52-287.
- Pierce, Edwin A.; Knob, Richard W.; Roth, Samuel O.; and McKinney, Emery L., to Inland Systems, Inc. Wall covering applicator. 3,671,362, 6-20-72, Cl. 156-552.000.
- Pierce, Edwin Bruce: *See—*
- Blackwell, Wayne Waldo; Earle, John Goodell; O'Connell, John Joseph; Pierce, Edwin Bruce; and Shabe, John Edward, 3,704,453.
- Pierce, Everette M., to United States of America, Army. Nitrocellulose base compositions and method for making same. 3,689,331, 9-5-72, Cl. 149-18.000.
- Pierce, George W. Cable claw attachment. 3,698,047, 10-17-72, Cl. 24-238.000.
- Pierce, Guy Donald; and Runft, Rudi K., to Cross Company, The. Gage head. 3,698,056, 10-17-72, Cl. 29-201.000.
- Pierce, Harold C. Boxed produce load. 3,673,812, 7-4-72, Cl. 62-404.000.
- Pierce, Harold C. Boxed product carloading. 3,701,324, 10-31-72, Cl. 105-369.00b.
- Pierce, Howard E., Jr.: *See—*
- Sevc, John M.; and Pierce, Howard E., Jr., 3,664,016.
- Pierce, Irving L.: *See—*
- Schenavar, Harold E.; and Pierce, Irving L., 3,703,047.
- Pierce, Irving L.; and Schenavar, Harold E. Outrigger fishing device with quick-detachable hook coupling. 3,650,063, 3-21-72, Cl. 43-42.74.
- Pierce, Joe T.: *See—*
- Gruczelak, Norman P.; and Pierce, Joe T., 3,648,264.
- Pierce, John A., to LTV Electrosystems, Inc., mesne. Method and apparatus for very low frequency radio navigation. 3,696,424, 10-3-72, Cl. 343-105.00r.
- Pierce, John H.: *See—*
- King, Charles S. W.; and Pierce, John H., 3,685,755.
- King, Charles S. W.; and Pierce, John H., 3,706,407.
- Pierce, John H.; to Bouligny, R. H., Inc. Traverse cam and follower for winders. 3,672,587, 6-27-72, Cl. 242-43.000.
- Pierce, John K., Jr., to Diamond Shamrock Corporation. Process for preparing homo- and copolymers of vinyl chloride in aqueous emulsion. 3,642,740, 2-15-72, Cl. 260-87.5.
- Pierce, John Robinson: *See—*
- Berkley, David Arthur; Mitchell, Olga Mary Mracek; and Pierce, John Robinson, 3,699,271.
- Pierce, Joseph E.: *See—*
- Christine, William C.; and Pierce, Joseph E., 3,694,997.
- Pierce, Joseph E., to AEI Corporation. Mixing dispenser having common feed line. 3,702,667, 11-14-72, Cl. 222-145.000.
- Pierce, Larry J., to Trane Company, The. Heat exchange coil and housing therefor. 3,678,993, 7-25-72, Cl. 165-76.000.
- Pierce, Laurance. Disc computer. 3,677,467, 7-18-72, Cl. 235-78.000.
- Pierce, Leo F.: *See—*
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- Moore, Peter N.; and Pierce, Leo F., 3,700,260.
- Pierce, Norton T.: *See—*
- Ehrenfried, Albert D.; Niejadlik, John; and Pierce, Norton T., 3,653,262.
- Ehrenfried, Albert D.; Niejadlik, John; and Pierce, Norton T., 3,663,881.
- Pierce, Norwin Caley: *See—*
- Evans, Evan Franklin; and Pierce, Norwin Caley, 3,671,379.
- Pierce, Ogden R.: *See—*
- Grindahl, George A.; Pierce, Ogden R.; and Greenwald, John R., 3,652,464.
- Loree, Lorne A.; Pierce, Ogden R.; and Kim, Yung Ki, 3,647,740.
- Pierce, Ogden R.; and Kim, Yung Ki, to Dow Corning Corporation. Fluoroalkylene silanes and siloxanes. 3,681,418, 8-1-72, Cl. 260-448.2.
- Pierce, R. H. Manufacturing Company: *See—*
- Gheen, Lyndle G.; and Daniels, Paul J., 3,642,306.
- Pierce, Ray S. Mudguard attachment for automobiles. 3,684,311, 8-15-72, Cl. 280-152.00r.
- Pierce, Robert Dean: *See—*
- Walsh, William J.; and Pierce, Robert Dean, 3,677,743.
- Pierce, Ruth B. Fog generator for insecticides and the like. 3,675,360, 7-11-72, Cl. 43-129.000.
- Pierce, Staley L., Jr.: *See—*
- Liang, Po-Lung; and Pierce, Staley L., Jr., 3,692,432.
- Pierce, Victor F. J. Apparatus for stringed musical instruments. 3,677,126, 7-18-72, Cl. 84-312.000.
- Pierce, William C.: *See—*
- Henry, O. Lee; and Pierce, William C., 3,707,298.
- Pierdet, Andre: *See—*
- Bucourt, Robert; Nedelec, Lucien; Gasc, Jean-Claude; and Pierdet, Andre, 3,697,510.
- Pieri, Giampiero: *See—*
- Boffa, Gioacchino; Crotti, Argento; Pieri, Giampiero; Mangini, Angelo; and Tundo, Antonio, 3,678,053.
- Piericci, Angiolo: *See—*
- Giachetti, Alfredo; Maranghi, Enzo; and Piericci, Angiolo, 3,685,317.
- Pierick, Richard L. Air cleaner. 3,668,840, 6-13-72, Cl. 55-239.000.
- Pierini, John M.; Sarazen, John C.; and Larsen, Reidar G., to Texas Instruments, Incorporated. Connector. 3,689,865, 9-5-72, Cl. 339-172.000.
- Pierlot, Michel Eugene, to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Carburetion devices for internal combustion engine. 3,677,526, 7-18-72, Cl. 261-23.00a.
- Pierman, Martin J.: *See—*
- Obermaier, Alfred A.; and Pierman, Martin J., 3,688,576.
- Obermaier, Alfred A.; and Pierman, Martin J., 3,702,566.
- Piermo, Michael C.; and Figas, Vincent J. Small engine service center. 3,670,762, 6-20-72, Cl. 137-342.000.
- Pieroh, Ernst Albrecht: *See—*
- Hoyer, Georg-Alexander; and Pieroh, Ernst Albrecht, 3,649,674.
- Pierpont, George C.: *See—*
- Kreml, John F.; Leibel, John M.; and Pierpont, George C., 3,666,580.
- Pierpont, William H., Jr., to Koch Industries, Inc. Method of forming fiber glass pipe with integral joint thread. 3,661,670, 5-9-72, Cl. 156-172.000.
- Pierre, Henri De Saint, to AMP Incorporated, mesne. Method of manufacturing an electrical connector. 3,652,758, 3-28-72, Cl. 264-249.
- Pierre, Joseph Pingon. Tower crane with telescopic jib. 3,687,323, 8-29-72, Cl. 212-56.000.
- Pierre-Dit-Mery, Jean-Marc, to Compagnie de Saint-Gobain. Process and apparatus for tempering of glass by electrochemical ion exchange. 3,681,040, 8-1-72, Cl. 65-30.000.
- Pierrel S.p.A.: *See—*
- Guadagnini, Giuseppe; and Fabi, Franco, 3,691,151.
- Pierrot, Victor Charles, III: *See—*
- Shepherd, Leonard Laverne; and Pierrot, Victor Charles, III, 3,692,134.
- Pierrot, Victor Charles, III, to Deere & Company. Delimbing and topping blade control linkage. 3,693,679, 9-26-72, Cl. 144-2.00z.
- Pierson, Alexandre, to Commissariat a l'Energie Atomique. Method and device for modulating or stabilizing a neutron flux obtained from an ion accelerator. 3,657,539, 4-18-72, Cl. 250-83.1.
- Pierson, Charles W., to Eastman Kodak Company. Ultrasonic splicing. 3,700,532, 10-24-72, Cl. 156-580.000.
- Pierson, Daniel H. Board game apparatus. 3,655,194, 4-11-72, Cl. 273-131.
- Pierson, Edward D.; Wright, James C.; de Rozario, Carl C.; and Nemeth, Peter, to Cutler-Hammer, Inc. Subfloor conveyor system and dolly therefor. 3,648,618, 3-14-72, Cl. 104-170.
- Pierson, Howard P.: *See—*
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- Pierson Industries, Inc.: *See—*
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- Pierson, Marvin B., to Armco Steel Corporation. Method for improving coating concentricity on metallic coated strands. 3,632,392, 1-4-72, Cl. 117-64.
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- Pierson, Robert M., to Environmental Structures, Inc., mesne. Inflatable shelter and method of erection. 3,638,368, 2-1-72, Cl. 52-2.
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- Pierson, William D., to Sparton Corporation. Velocity gauge. 3,664,175, 5-23-72, Cl. 73-1.
- Piesach, Joel M., to Polaroid Corporation. Photographic film unit comprising silver halide and a dyeable stratum contained on a common support and process employing same. 3,658,524, 4-25-72, Cl. 96-3.
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- Koch-Bossard, Ernst; and Pietch-Faber, Max August, 3,656,845.

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- Pietroski, Alex J., to General Motors Corporation. Blending device. 3,678,551, 7-25-72, Cl. 29-78.000.
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Guse, Gunter; and Pietsch, Hanns G., 3,690,937.
- Pietsch, Peter: See—
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- Pietschmann, Helmut Richard, to Sybron Corporation. Speed control for dental handpieces. 3,676,931, 7-18-72, Cl. 32-27.000.
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- Pietzsch, Ludwig: See—
Peter, Kurt; Huhne, Gerd; Kauer, Harald; Overlach, Knud; and Schlicker, Volker, 3,638,212.
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Vuaille, Andre; and Pigeroulet, Jean, 3,658,040.
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Bearpark, John Patrick; Pigott, Stanley Wilton; and Llewellyn, Rees Jenkin, 3,631,586.
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Prial, Gerard; and Pigulski, Chester J., 3,681,264.
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Herederro, Juan-Luis, 3,662,314.
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- Pihlblad, Robert W.: See—
Jayne, Max L.; and Pihlblad, Robert W., 3,675,186.
- Piibe, Rein: See—
Glegg, Keith C. M.; Haberl, John F.; Baumans, Hans W.; and Piibe, Rein, 3,670,329.
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Bonnema, Jentje; and Pijpers, Emanuel M. J., 3,647,754.
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Merrill, Edward W.; and Pikarsky, Jacob M., 3,696,956.
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Avery, Robert T.; Lambertson, Glen R.; and Pike, Chester D., 3,702,450.
- Pike, Daniel E., to Air Pollution Industries, Inc. Gas collector for steel furnace. 3,707,069, 12-26-72, Cl. 55-418.000.
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Schaeffer, Bruce S.; and Pike, John A., 3,677,029.
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- Pike, Roscoe A., to United Aircraft Corporation. Process for regenerating surface activity in oxidatively treated graphite fibers. 3,695,916, 10-3-72, Cl. 117-47.00r.
- Pike, Winthrop Selley, to RCA Corporation. Electrical circuit. 3,670,179, 6-13-72, Cl. 307-221.000.
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Madsen, Ditlev P.; and Pikel, John H., 3,655,702.
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Carboni, Rudolph A.; and Pikl, Josef, 3,681,450.
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Borchert, Edgar; Frese, Werner; Pikorz, Wolfgang; and Sonntag, Alois, 3,634,739.
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- Pilarczyk, Karol, to Carrier Corporation, mesne. Method of changing capacity of fluid reaction device. 3,664,001, 5-23-72, Cl. 29-156.4.
- Pilarczyk, Karol, to Carrier Corporation, mesne. Compressor power recovery. 3,680,973, 8-1-72, Cl. 415-53.000.
- Pilat, Michael J., to Battelle Development Corporation, The, mesne. Source test cascade impactor. 3,693,457, 9-26-72, Cl. 73-432.0ps.
- Pilato, Joseph Michael: See—
McDaniel, Carl Vance; Maher, Philip Kenerick; and Pilato, Joseph Michael, 3,650,687.
- Pilato, Louis Anthony: See—
Johnson, Robert Norman; Karol, Frederick John; and Pilato, Louis Anthony, 3,642,749.
- Pilato, Louis Anthony; and Colomb, Henry Octave, Jr., to Union Carbide Corporation. Preparation of high molecular weight vinyl polymers. 3,645,959, 2-29-72, Cl. 260-33.6.
- Pilato, Maurice J. M., to Collet, Marc Norbert. Electronic device for plane graphical representation with perspective effect. 3,671,730, 6-20-72, Cl. 235-189.000.
- Pilbeam, Alan: See—
Healy, Thomas Victor; and Pilbeam, Alan, 3,703,451.
- Pilch, Horst: See—
Gresch, Walter; Pilch, Horst; and Ruttener, Erwin, 3,647,493.
- Pilch, John S., to Ware Machine Works, Inc. Excavating apparatus. 3,653,131, 4-4-72, Cl. 37-1.
- Pilch, Kurt: See—
Corr, Hubert; Grosskinsky, Ott-Alfred; Loesch, Norbert; and Pilch, Kurt, 3,632,648.
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- Poehler, Guenter; Wolf, Ludwig; Corr, Hubert; and Pilch, Kurt, 3,634,512.
- Zirker, Guenter; Sanne, Walter; Pilch, Kurt; and Schulze, Gerhard, 3,695,841.
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Meacher, John Wyatt; and Pile, David Stanley, 3,654,418.
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- Pileckis, John, to Honeywell Inc. Thyristor firing control circuit. 3,705,990, 12-12-72, Cl. 307-252.00b.
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- Pilgram, Kurt H. G., to Shell Oil Company. Production of 2-nitrochlorobenzenes. 3,657,355, 4-18-72, Cl. 260-609.
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Burton, George M.; Christensen, Gerald M.; and Pilgrim, Arthur J., 3,657,073.
- Pilgrim, William S.: See—
Moore, William C.; and Pilgrim, William S., 3,698,387.
- Pilipenko, Fedor Semenovich: See—
Stepanov, Gennady Arkadievich; Tsailingold, Anatoly Lvovich; Pilipenko, Fedor Semenovich; Sodelev, Valerian Mikhailovich; Borekov, Georgy Konstantinovich; Buyanov, Roman Alexeevich; and Venyaminov, Sergei Alexeevich, 3,678,124.
- Pilipovich, Donald: See—
Lindahl, Charles B.; Schack, Carl J.; and Pilipovich, Donald, 3,701,630.
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- Pilipovich, Donald; and Warner, Michael G., to North American Rockwell Corporation. Certain difluoramine compounds. 3,663,588, 5-16-72, Cl. 260-453.
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- Pilipovich, Donald, to North American Rockwell Corporation. Rocket oxidizer composition. 3,707,413, 12-26-72, Cl. 149-109.000.
- Pilish, Andre, to Pennstar Company, The. Prefabricated buildings. 3,706,168, 12-19-72, Cl. 52-234.000.
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Bamford, Charles Raymond, 3,689,304.
- Branch, Geoffrey Hindle; Hall, James Edward; Bickerstaff, Kenneth; and Russell-Rayner, Albert Patrick, 3,680,677.
- Bryan, John, 3,690,856.
- Critchley, Derek; Dawber, Frank; and Grainger, Kenneth Frederick, 3,680,388.
- Dickinson, George A., 3,647,408.
- Dickinson, George Alfred; and Nixon, Frank, 3,663,196.
- Edwards, Alan; and Loukes, David Gordon, 3,681,042.
- Gaskell, Philip Hedley; and Lowe, Derek, 3,652,863.
- Giddings, David George; and Twist, Douglas, 3,640,694.
- Giddings, David George; and Murphy, David Duncan, 3,679,388.
- Gildea, Colin T., 3,656,929.
- Hynd, William Christie, 3,650,726.
- Lawrenson, Jack; and Jones, David, 3,656,927.
- Lawrenson, Jack; and Robinson, Albert Sidney, 3,658,501.
- Loukes, David G., 3,639,114.
- Loukes, David Gordon; and Maltman, William Ramsey, 3,632,322.
- Loukes, David Gordon; and Edwards, Alan, 3,656,926.
- Loukes, David Gordon; and Edwards, Alan, 3,658,504.
- Loukes, David Gordon; and Edwards, Alan, 3,674,453.
- Loukes, David Gordon; and Lawrenson, Jack, 3,682,611.
- Mills, Harry; and Woods, Leslie, 3,666,360.
- Oulton, Richard John, 3,637,365.
- Oulton, Richard John, 3,687,648.
- Robinson, Albert Sidney; and Lawrenson, Jack, 3,632,323.
- Robinson, Albert Sidney, 3,647,407.
- Shepherd, Gerald, 3,658,502.
- Twist, Douglas, 3,655,233.
- Pilkington Perkin-Elmer Limited: See—
Freeman, Michael H., 3,666,887.
- Pilkington, Stephen John, to SK Instruments Limited. Automatic process control systems. 3,643,108, 2-15-72, Cl. 307-230.
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Froehlich, Alfred; Piller, Bernhard; and Stauner, Thomas, 3,671,253.
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- Piller, Bernhard; and Seitz, Karl, to Ciba-Geigy AG. Process for hardening light-sensitive photographic layers containing gelatine. 3,701,664, 10-31-72, Cl. 96-111.000.
- Pilling, Arthur F., to United States Steel Corporation. Work twister for rolling mill. 3,699,795, 10-24-72, Cl. 72-231.000.
- Pilling, Brian. Dye lightfastness of acrylic substrates with triazine compounds. 3,637,337, 1-25-72, Cl. 8-4.
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Demosay, Daniel; Pillon, Daniel; and Ducret, Jacques, 3,669,975.
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- Pacheco, Henri; Cronenberger, Lucien; Pillon, Daniel; and Thiolliere, Jean, 3,632,618.
- Poignant, Pierre; Pillon, Daniel; and Caffiero, Rodolphe, 3,681,389.
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Easter, Ross A., 3,655,096.
- Fritzberg, Edward L., 3,650,769.
- Fritzberg, Edward L.; and Fellenz, Donald C., 3,667,962.
- Halleck, Frank E., 3,659,025.
- Kooy, Elmer D.; and Peterson, Donald L., 3,705,410.
- Leezer, James R.; Reid, Francis R.; Turpin, Charles H.; and Rejsa, Jack J., 3,669,346.
- Loubert, Donald W.; and Meyer, James A., 3,694,608.
- Marmor, Ralph A.; and Brandberg, Lawrence C., 3,705,012.
- Meade, Reginald E., 3,675,393.
- Meyer, Byron W.; and Wright, William F., 3,676,032.
- Peebles, Joseph M., 3,669,363.
- Rejsa, Jack J.; and Kiker, Paul K., 3,643,293.
- Rejsa, Jack J.; and Meyer, James A., 3,675,567.
- Rejsa, Jack J., 3,680,616.
- Turpin, Charles Henry; and Ryan, John A., 3,668,981.
- Wilson, Jerry M., 3,704,688.
- Pilorusso, Felix. Teaching apparatus. 3,672,073, 6-27-72, Cl. 35-34.000.
- Pilot Research Corporation: See—
Berry, Clyde A., 3,696,444.
- Fregeolle, Oscar, 3,670,528.
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- Wills, Donald F., 3,656,296.
- Pilsworth, Edward A.: See—
Owens, James M.; Graham, James L.; and Pilsworth, Edward A., 3,660,101.
- Pim, Kendall A.: See—
Berlincourt, Don A.; and Pim, Kendall A., 3,676,724.
- Pimentel, Daniel R.: See—
McBride, Lyle E., Jr.; and Pimentel, Daniel R., 3,663,876.
- Pin-Set Corporation: See—
Elders, Gerald W., 3,643,542.
- Pinajian, John J.: See—
Rupp, Arthur F.; Pinajian, John J.; and Rimshaw, Stanley J., 3,635,831.
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Pascall, George, 3,684,562.
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- Pinckaers, Balthasar Hubert, to Honeywell Inc. Condition responsive circuit with limited internal dissipation. 3,694,663, 9-26-72, Cl. 307-116.000.
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- Pincoffs, Peter H.; and Tisdale, Glenn E., to Westinghouse Electric Corporation. Classification method and apparatus for pattern recognition systems. 3,638,188, 1-25-72, Cl. 340-146.3.
- Pincus, Alexis G.: *See—*
- Ali, Mir Akbar; and Pincus, Alexis G., 3,671,380.
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- Pindell, Stuart M., Jr.; Johnson, Donald J.; Fickes, Robert E.; Perry, Malcolm R.; and Radcliffe, Wayne K., to Datcon Instrument Company, mesne. Elapsed time indicator. 3,635,011, 1-18-72, Cl. 58-41.
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- Pine, Marmon, to Jarva, Inc. Light beam guiding device. 3,707,330, 12-26-72, Cl. 356-153.000.
- Pine, William S., Inc.: *See—*
- Reiner, Thomas; and Dobyns, Edward, 3,663,046.
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- Pineau, Jean E.: *See—*
- Rouvre, Philippe A. R.; Pineau, Jean E.; and Peroy, Francois, 3,633,085.
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- Blose, James H.; Pinell, William F.; and Talvalkar, Shashikant G., 3,663,278.
- Pineo, Carroll Benson, to General Electric Company. Thermally expandable bearing assembly. 3,692,372, 9-19-72, Cl. 308-15.000.
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- Sindelar, Ernest C., 3,650,136.
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- Sletzing, Meyer; Karady, Sandor; Ly, Manuel G.; and Pines, Seemon H., 3,676,480.
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- Pingel, Vernon J., to Western Electric Company, Incorporated. Method for controlling the eddy-current loss and increasing the permeability of magnetic alloys. 3,653,986, 4-4-72, Cl. 148-104.
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- Hollaway, John T.; and Pingry, Carl O., III, 3,676,859.
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- Orloff, John F.; and Pinkerton, William E., 3,638,472.
- Pinkerton's Incorporated: *See—*
- O'Connor, Richard J., 3,690,528.
- Pinkham, James F.: *See—*
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- Mulread, Richard C.; and Pinsley, Edward A., 3,699,471.
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- Werlein, Eugene R.; Hollingsworth, John W.; and Pinson, Lyndon D., 3,699,231.
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- Follstaedt, Donald W.; and Pinson, Richard D., 3,683,989.
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- Hellmer, Lars; and Nolle, Wolfgang, 3,634,031.
- Oberste-Berghaus, Gerhard, 3,676,065.
- Pintschovius, Ulrich: *See—*
- Frischkorn, Hans; Pintschovius, Ulrich; Schinzel, Erich; and Smerz, Otto, 3,641,051.
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- Shimizu, Akira, 3,670,439.
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- Gautney, George E.; Johnson, Rowland S.; and Piombino, John, 3,684,965.
- Pioneer Chemical Works, Inc.: *See—*
- Curtis, Gerald B., 3,661,793.
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- Naito, Nobuatsu; Nakajima, Kasuhiko; and Watanabe, Yoshio, 3,638,874.
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- Akira, Konno, 3,688,044.
- Ando, Shizuo, 3,701,850.
- Hagiwara, Yukio, 3,662,938.
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- Hiraki, Takayuki, 3,680,872.
- Kinoshita, Shouzo; and Yamamura, Isao, 3,693,752.
- Konno, Akira; and Kosaka, Tomoaki, 3,692,940.
- Nohara, Shunji; and Watanabe, Hideo, 3,642,091.
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- Ohshita, Masahide; and Tsukagoshi, Tsunehiro, 3,674,549.
- Okamura, Akira, 3,649,762.
- Saeki, Yoshifumi, 3,659,120.
- Sugiyama, Keiji, 3,686,751.
- Suzuki, Michio, 3,703,251.
- Suzuki, Tsutomu, 3,671,682.
- Suzuki, Tsutomu, 3,701,861.
- Takahashi, Yoshio, 3,697,087.
- Tamura, Masahiko; Iwama, Kiyonori; Asahina, Mitsuo; and Okuda, Kensuke, 3,646,280.
- Tsukagoshi, Tsunehiro, 3,643,035.
- Wada, Eiichi, 3,638,955.
- Yanagida, Kiyoshi, 3,706,021.
- Yokota, Minoru, 3,633,922.
- Yoshifumi, Saeki; and Seichiro, Kurihara, 3,688,199.
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- Hansen, Robert A.; and Jerchow, Lewis A., 3,704,547.
- Pioneer Liquor Company, Inc.: *See—*
- McKinney, Merle B., 3,679,225.
- Pioneer Magnetics, Inc.: *See—*
- Berger, James K.; and Wilkinson, Bruce L., 3,660,672.
- Berger, James K., 3,660,685.
- Berger, James K., 3,660,724.
- Berger, James K., 3,697,854.
- Wilkinson, Bruce L., 3,668,589.
- Wilkinson, Bruce L., 3,679,965.
- Wilkinson, Bruce L., 3,699,358.
- Pioneer Packaging, Inc.: *See—*
- Carter, Frank L., 3,693,926.
- Pioneer Parachute Company, Inc.: *See—*
- Vickery, Edwin D., 3,652,041.
- Pioneer Plastics, Inc.: *See—*
- Blease, Wilfred J., 3,700,213.
- Pioneer Products Company, mesne: *See—*
- De Lancey, Warren H., 3,693,771.
- Pioneer Research, Inc.: *See—*
- Goldberger, Max, 3,673,801.
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- Presnick, Michael C.; Penn, Everett; and Piorek, John, 3,683,357.
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- Winzer, Wolfgang; and Piotrowski, Reinhard, 3,654,025.
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- Smith, Joseph B.; and Gardner, Ronald D., 3,685,545.
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- Theuerkauf, Fred, 3,645,638.
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- Rupprecht, Charles F.; and Wiker, Frank, 3,668,955.
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- Hartzell, James R.; and Reas, Arley J., 3,689,175.
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- Cahen, Olivier; Picquendar, Jean-Edgar; and Pircher, Georges, 3,648,048.
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- Appiani, Edoardo; and Felici, Alberto, 3,678,175.
- Pirelli, S.p.A.: *See—*
- Fischetti, Pasquale, 3,666,296.
- Lombardi, Luigi, 3,677,849.
- Oicelli, Gian Battista; Calari, Sergio; and Montessori, Giuseppe, 3,686,632.
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- Maurice, Jean; and Piret, Jean, 3,636,795.
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- Gabler, Hellmut; Harnisch, Heinz; Heymer, Gero; Merkenich, Karl; and Pirig, Wolf-Dieter, 3,639,287.
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- Hirsch, Karl; Riedl, Wilhelm; Winkler, Siegmund; and Pirker, Hans, 3,686,784.
- Pirkey, Edward: *See—*
- Hulit, Gerald W.; Greenberg, Frederick A.; Pirkey, Edward; and Tingquist, Stanley C., 3,687,191.
- Pirnirk, Michael P.: *See—*
- Napier, Roger P.; and Pirnik, Michael P., 3,641,061.
- Pirolli, Claude Marius: *See—*
- Nicolas, Michel Jacques Robert; and Pirolli, Claude Marius, 3,662,385.

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Bandel, Werner; and Pirot, Ernst, 3,687,426.
Ebert, Alfred; Pirot, Ernst; Holler, Fritz; and Steinhilber, Georg, 3,650,644.
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Pacciarini, Antonio; and Pirovano, Dante, 3,694,290.
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Nameikin, Nikolai Sergeevich; Durgarian, Sergei Garievich; Soloviev, Evgeny Vladimirovich; and Piryatinsky, Viktor Maxovich, 3,637,899.
- Pirzer, Hans: *See*—
Nieswandt, Werner; Linge, Hermann; Pirzer, Hans; Hoerauf, Werner; and Hetz, Herbert, 3,639,659.
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Fuhrmann, Robert; Pisanchyn, John; and Koff, Fred William, 3,668,182.
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Benson, Gustav E.; and Pisani, James M., 3,672,148.
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Deli, Jack M.; Kowaczky, Frank J.; Fanslow, Ronald J.; and Pisani, Marino J., 3,645,350.
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Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliy, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Iekandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,719.
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Martin, Henry; Rufener, Jacques; and Pissiotas, Georg, 3,658,892.
Martin, Henry; and Pissiotas, Georg, 3,661,924.
Martin, Henry; and Pissiotas, Georg, 3,682,934.
- Pistel, Conrad: *See*—
Hinman, Ronald C.; Miller, Richard D.; and Pistel, Conrad, 3,631,964.
- Pistilli, Donald J.; and Degginger, Edward R., to Allied Chemical Corporation. Method for perfecting aircraft emergency landing. 3,679,462, 7-25-72, Cl. 117-105.500.
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Muller, Helmut; and Pistel, Gustav, 3,677,004.
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Decker, Martin; Schmidt, Joseph; Hoffmann, Herwig; and Pistor, Hans Joachim, 3,671,566.
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Mansky, Michael H.; and Pitchon, Esra, 3,656,964.
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Heidrich, Klaus; Krewitt, Alfred; Loos, Kurt; and Pithan, Fritz, 3,664,619.
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Rand, Henry T.; Bohacz, Maxine; Lyon, Jerry; Pitman, Robert L.; Shaw, Donald N.; and Bianchi, John, 3,706,867.
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- Pitney Bowes-Alpex, Inc.: *See*—
Berler, Robert M., 3,673,416.
Berler, Robert M., 3,685,723.
Murthy, Nanjundiah N., 3,700,858.
- Pitney Bowes-Sage, Inc.: *See*—
Hirschman, Howard I.; and Evers, James C., 3,692,994.
- Pitney, Lennord L.: *See*—
Tavor, Bruce W.; and Pitney, Lennord L., 3,672,254.
- Pitney-Bowes, Inc.: *See*—
Beck, Christian A., 3,640,523.
Beck, Christian A.; and Luperti, Harry E., 3,660,203.
Conklin, Joseph P., 3,664,445.
Coville, William W., 3,706,274.
Dlugos, Daniel F.; Freeman, Gerald C.; and Piotroski, Peter N., 3,692,988.
Du Bois, Robert Clark; and Miller, Wayne H., 3,679,306.
Du Bois, Robert Clark; Mikan, Donald G.; and Miller, Wayne H., 3,698,356.
Garfinkle, Marvin E.; Schmeck, Robert E.; and Tangard, Einar W., 3,633,693.
Hanson, Walter J., 3,664,231.
Morrison, Douglas I., 3,661,383.
Morrison, Douglas I.; and Calvi, Salvatore J., 3,697,165.
Murphy, James P., 3,679,932.
Nagot, Marc N.; and Zucker, Fredric E., 3,679,449.
Parups, Eriks, 3,692,302.
Rouan, Francis J.; and Hanson, Walter J., 3,682,378.
Ryland, Peter M., 3,664,656.
Saint Onge, Ronald J.; and Sherman, Charles I., 3,704,668.
Schrempp, Ernst; and Beck, Christian A., 3,637,201.
Schrempp, Ernst, 3,645,148.
Schrempp, Ernst; and Beck, Christian A., 3,704,686.
Smith, Lawrence Jerome, 3,659,080.
Trampösch, Herbert, 3,679,448.
Zucker, Fredric E., 3,680,082.
Zucker, Fredric E.; Kaswer, Joseph, Jr.; and Wilczynski, Thomas S., 3,704,890.

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Felder, Ernst; and Pitre, Davide, 3,644,409.
Felder, Ernst; and Pitre, Davide, 3,654,272.
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- Pitt, Richard E., to Owens-Corning Fiberglas Corporation. Method and apparatus for reducing torque changes in rock shafts. 3,704,878, 12-5-72, Cl. 267-182.000.
- Pittaluga, Gennaro, to Fiat Soc. Per Azioni Azienda OM Stabilimento di Milano. Hoist for lift trucks. 3,651,891, 3-28-72, Cl. 187-9.
- Pittaro, Richard J.: *See*—
Bantz, Walter J.; and Pittaro, Richard J., 3,701,941.
- Pittenger, Evan W.: *See*—
Boon, George B.; and Pittenger, Evan W., 3,649,466.
- Pitteroff, Walter: *See*—
Feinauer, Anton; Ruettiger, Wilhelm; Fikentscher, Rolf; and Pitteroff, Walter, 3,651,139.
- Pitters Proprietary Limited: *See*—
Bingham, David W., 3,667,522.
Bingham, Laurence W., 3,633,470.
- Pittet, Alan O.; Mason, Michael E.; Theimer, Ernst T.; and Tibbetts, Merrick S., to International Flavors & Fragrances Inc. Bicyclic pyrazines having from six to ten carbon atoms in the hydrocarbon ring. 3,686,177, 8-22-72, Cl. 260-250.00r.
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- Pitteway, Michael Lloyd Victor, to National Research Development Corporation. Apparatus for decoding graphic-display information. 3,675,230, 7-4-72, Cl. 340-324.00a.
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- Pitti, Joseph J.; and Tassone, George A., to Atreo Manufacturing Co., Inc. Pool cover. 3,667,070, 6-6-72, Cl. 4-172.12.
- Pittman, Allen G.: *See*—
Wasley, William L.; and Pittman, Allen G., 3,706,594.
Whitfield, Robert E.; Pittman, Allen G.; and Wasley, William L., 3,632,391.
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- Pittman, Forrest C., to Halliburton Company. Apparatus and method for pipeline testing. 3,695,301, 10-3-72, Cl. 138-97.000.
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- Pittman, Maurice B. Rear view mirror wiper mechanism. 3,685,087, 8-22-72, Cl. 15-250.240.
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Pittman, Loyd W., 3,667,844.
- Pitts, Bobby L. Textile package adaptor. 3,695,561, 10-3-72, Cl. 242-46.400.
- Pitts, Charles A., to Dow Chemical Company, The. Slip and drag block assembly. 3,705,624, 12-12-72, Cl. 166-216.000.
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Paap, Hans J.; Pitts, Robert W.; and Mueller, Allen H., 3,681,601.
- Pittsburgh Activated Carbon Company: *See*—
Kranc, Marion F., 3,656,463.
- Pittsburgh Corning Corporation: *See*—
Castellucci, Nicholas T., 3,657,847.
Heagler, Richard B., 3,663,149.
Heagler, Richard B., 3,695,810.
Johnston, William D., 3,661,495.
Johnston, William D., 3,661,496.
- Pittsburgh Pacific Processing Co.: *See*—
Vellella, Vincent A., 3,657,997.
- Pittsburgh Tubular Shafting, Inc.: *See*—
Wolfe, Robert A., 3,659,434.
- Pitzalis, Mario: *See*—
Vargiu, Silvio; Pitzalis, Mario; and Abruzzi, Pierluigi, 3,705,116.
Vargiu, Silvio; Pitzalis, Mario; and Abruzzi, Pierluigi, 3,705,117.
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Brown, Richard H., 3,690,205.
- Piwonka, Thomas S.; and Hanna, James V., to TRW Inc. Melting of refractory and reactive metals. 3,682,458, 8-8-72, Cl. 266-33.00r.
- Pizante, Jack H., to Texas Instruments, Incorporated. Method for locating impedance discontinuities in a wave propagating medium. 3,691,529, 9-12-72, Cl. 340-15.5dp.

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- Pizzey, Peter Ernest, to Thomas, Frederick, & Company Limited. Lighting unit. 3,679,886, 7-25-72, Cl. 240-3.
- Pizzimenti, Roger Philip; and Satcher, James Ware, Jr. Motor vehicle all-weather forward view mirror. 3,697,157, 10-10-72, Cl. 350-302.000.
- Pizzini, Georges Philippe Henri: *See—*
Mandineau, Daniel Paul Henri; Mourey, Michele Yvonne Christiane; Pizzini, Georges Philippe Henri; and Poulain, Jacques Constant, 3,668,017.
- Pizzini, Louis C.: *See—*
Austin, Arthur L.; Pizzini, Louis C.; and Levis, William W., Jr., 3,639,541.
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- Pizzurro, Rina M. Drapery hook. 3,689,957, 9-12-72, Cl. 16-87.200.
- Plaatz, Carl, Firma: *See—*
Mager, Elisabeth; Schulz, Helga; and Schulz, Peter, 3,669,112.
- Place, Donald E., to Therm-O-Disc, Incorporated. Manual reset thermostat. 3,675,178, 7-4-72, Cl. 337-348.000.
- Place, Fred A.: *See—*
Brennan, Leon E.; Mower, Frederick J.; Place, Fred A.; Shanks, David A.; Simpson, Neville H.; and Zaner, William L., Sr., 3,634,899.
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Cheshire, Alan Gillingham; and Place, Harold, 3,682,390.
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- Placek, Eugene W., to Van Dorn Company. Method and apparatus for infrared heating. 3,675,905, 7-11-72, Cl. 263-2.00r.
- Placements Jean Paul Tanguay Ltée, mesne: *See—*
Tanguay, Jean Paul, 3,677,312.
- Tanguay, Jean Paul, 3,701,370.
- Tanguay, Jean-Paul; and Elie, De Roberval, 3,647,046.
- Placente, Anthony N., to Congoleum Industries, Inc. Apparatus for producing resinous sheetlike products. 3,700,366, 10-24-72, Cl. 425-71.000.
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- Plagemann, Jürgen; and Conrad, Horst, to Pee-Wee Maschinen und Apparatebau Werner Plagemann. Method of an apparatus for semi-hot forming of metallic workpieces in a rolling operation. 3,686,911, 8-29-72, Cl. 72-69.000.
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- Plake, William C.: *See—*
Hardy, Richard W.; Knowlen, Robert B.; Sandifer, Cecil W.; and Plake, William C., 3,670,164.
- Plambeck, Ronald F.: *See—*
Mandock, Richard F.; and Plambeck, Ronald F., 3,649,876.
- Plammer, Alfred: *See—*
Eichler, Josef Alfred; and Plammer, Alfred, 3,645,299.
- Plamondon, Jacques A.: *See—*
White, Michael W., Jr.; and Plamondon, Jacques A., 3,703,166.
- Plana, Roberto, to AMP Incorporated, mesne. Housing for an electrical terminal. 3,641,477, 2-8-72, Cl. 339-59.
- Plana, Salvio. Automatic vegetable peeler. 3,677,314, 7-18-72, Cl. 146-49.00b.
- Planas, Luis Valls, to Neutra Cuatro S.A. Electronic high frequency pulse generator. 3,673,423, 6-27-72, Cl. 307-107.000.
- Planche, Jean, to Schlumberger Technology Corporation. Sondes with articulated arms used in well logging. 3,685,158, 8-22-72, Cl. 33-178.00f.
- Planchon, Jean. Faceted reflector. 3,700,882, 10-24-72, Cl. 240-41.360.
- Planet Corporation: *See—*
West, Curtis C.; Castello, Louis D.; and Ward, Frederick William Allan, 3,658,011.
- Planet Products Corporation: *See—*
Dugle, Thomas E., 3,657,950.
- Planitzer, Erich: *See—*
Schindler, Werner; Schaaff, Karl; and Planitzer, Erich, 3,652,034.
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- Plank, Charles J.; and Rosinski, Edward J., to Mobil Oil Corporation. Zeolite-containing catalyst, synthesis and use thereof. 3,676,330, 7-11-72, Cl. 208-111.000.
- Plankenhorn, William J.: *See—*
Schneider, Harry E.; and Plankenhorn, William J., 3,636,293.
- Planner, Thomas H., to Kimberly-Clark Corporation. Method and apparatus for pleating and sealing tube wrappers. 3,657,856, 4-25-72, Cl. 53-28.
- Plant Industries, Inc.: *See—*
Roper, William H.; Ross, Robert N.; and Visnovits, Gabor, 3,672,543.
- Plant, John D., Jr. Overcab bed for mobile campers. 3,637,251, 1-25-72, Cl. 295-23.
- Plantan, Ronald S., to White Motor Corporation. Elevatable fifth wheel. 3,649,047, 3-14-72, Cl. 280-425.
- Plante, Lawrence M. RMS voltmeter and log converter. 3,657,528, 4-18-72, Cl. 235-193.
- Plantholt, Richard H.: *See—*
Staker, Donald D.; Plantholt, Richard H.; and Kriege, David J., 3,649,657.
- Plantholt, Robert G.; and Koltuniak, Michael A., to Controlled Power Corporation. Circuit breaker and safety interlock for modular power supply. 3,637,960, 1-25-72, Cl. 200-50.
- Plany, Joseph: *See—*
Healey, Robert Joseph; and Plany, Joseph, 3,651,470.
- Planzo, Carmine Stephen, to RCA Corporation. Semiconductor device package. 3,659,035, 4-25-72, Cl. 174-52.
- Plapper, Jürgen; and Pieper, Friedrich, to Henkel & Cie G.m.b.H. Method for imparting water- and oil-repellent properties to leather and leather so treated. 3,661,631, 5-9-72, Cl. 117-142.000.
- Plas/Steel Products, Inc.: *See—*
Cousin, Barry D., 3,651,561.
- Plasco Limited Company: *See—*
Mohwinkel, Franz, 3,658,559.
- Plasewicz, Casimir F.: *See—*
Hayden, John T., Jr.; and Plasewicz, Casimir F., 3,655,460.
- Plasket, Chesteen S., 1/5 to Chambers, Earl L. and 1/5 to Maynard, Donald, mesne. Hoop rolling pusher. 3,696,556, 10-10-72, Cl. 46-220.000.
- Plaskett, Thomas S.: *See—*
Blakeslee, A. Eugene; Foster, Luther M.; and Plaskett, Thomas S., 3,673,064.
- Blum, Samuel E.; Foster, Luther M.; and Plaskett, Thomas S., 3,642,443.
- Plasko, Emil Robert, to Micro Devices Corporation. Thermal limiter for one or more electrical circuits and method of making the same. 3,649,942, 3-14-72, Cl. 337-163.
- Plaskolite, Inc.: *See—*
Lee, Jimmy D., 3,705,221.
- Plasmachem Inc.: *See—*
Baldwin, William C.; and Meyer, Theodore N., 3,642,253.
- Plasmeca, Jean Piemontesi & Cie: *See—*
Monney, Michel, 3,635,052.
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- Plasser, Franz; and Theurer, Josef. Mobile apparatus for laying track ties. 3,638,577, 2-1-72, Cl. 104-6.
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- Plasser, Franz; and Theurer, Josef. Mobile track surfacing machine. 3,651,762, 3-28-72, Cl. 104-12.
- Plasser, Franz; and Theurer, Josef. Mobile track maintenance apparatus. 3,654,868, 4-11-72, Cl. 104-2.
- Plasser, Franz; and Theurer, Josef. Mobile track surfacing apparatus. 3,659,345, 5-2-72, Cl. 33-60.
- Plasser, Franz; and Theurer, Josef. Tamper unit for mobile track tamping machine. 3,669,025, 6-13-72, Cl. 104-12.000.
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- Plasser, Franz, Bahnbaumaschinen: *See—*
Schubert, Egon, 3,638,482.
- Plasser, Franz, Bahnbaumaschinen-Industrie-Gesellschaft m.b.H.: *See—*
Plasser, Franz; Theurer, Josef; and Folser, Karl, 3,685,589.
- Plasser, Franz, Bahnbaumaschinen-Industrie-Gesellschaft m.b.H.: *See—*
Plasser, Franz; and Praschl, Wilhelm, 3,685,157.
- Plasston Maagan Michael Industries Ltd.: *See—*
Kantor, Itzhak, 3,632,007.
- Kantor, Itzhak, 3,685,495.
- Plastek Company: *See—*
Muhler, Joseph C., 3,698,388.
- Plastetics, Inc.: *See—*
Bellasalma, Gerald J., 3,704,675.
- Bellasalma, Gerald J., 3,703,572.
- Plastex Limited: *See—*
Mann, Matthew Kenneth; and Rushworth, Norman, 3,651,542.
- Plasti-Fiber Formulations, Inc.: *See—*
Botz, Roland, 3,694,308.
- Plasti-Music Company, Inc.: *See—*
Johnston, Herbert L., 3,653,623.
- Plasti-Vac, Inc.: *See—*
Diamond, Harvey J., 3,659,991.
- Plastic Coating Corporation, The: *See—*
Desjarlais, Robert Charles, 3,694,247.
- Gager, Morgan E., 3,639,640.
- Hakanson, Nils L., 3,641,969.
- Hakanson, Nils L., 3,654,902.
- Touchette, Albert Francis, 3,694,071.
- Plastic Coating Limited: *See—*
McKay, Peter Henry; and Legg, Morris James, 3,643,626.
- Plastic Contact Lens Company, The: *See—*
Townslay, Malcolm G., 3,639,043.
- Plastic Forming Company, Inc., The: *See—*
Schurman, Peter T., 3,659,999.
- Plastic Innovations Limited: *See—*
Stanton, David Christopher, 3,688,898.
- Plastic Rotational Moulding Limited: *See—*
Westbrook, Aubrey Joseph; Mac Knight, Ian David; and Thomson, Irvine, 3,689,191.
- Plastics Development Corporation of America: *See—*
Michaelis, David E., 3,678,839.
- Plastics, Inc.: *See—*
Eckdahl, Thomas Harold, 3,685,687.
- Formo, Jerome L., 3,652,368.
- Plastics Manufacturing Company: *See—*
Meiser, Kenneth D., 3,650,821.
- Plastics Materials Systems, Inc.: *See—*
Guglietti, Henry G., 3,638,922.
- Plastino, Ario. Head protecting headwear. 3,706,101, 12-19-72, Cl. 2-3.00r.
- Plastofilm Industries, Inc.: *See—*
Mascetti, Joseph A., Jr., 3,695,503.
- Mascetti, Joseph A., Jr., 3,695,514.
- Plastona (John Waddington) Limited: *See—*
Gaunt, Thomas Norman; and Dodsworth, Edward, 3,645,825.
- Plastrex-Manurhin-S.A.R.L.: *See—*
Level, Bertrand, 3,648,948.
- Level, Bertrand P. E., 3,641,975.
- Plastugil (Plastiques et Elastomeres Ugine-Progil): *See—*
Fivel, Ernest, 3,637,545.
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Vass, Edward J.; Braun, Richard H.; and Platt, Conrad R., 3,690,255.
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Evans, Marshall E.; and Platt, David M. H., 3,649,504.
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Ewald, Ronald F.; and Platt, Norman E., 3,648,932.
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Davis, John R.; and Platteschorre, Kornelis, 3,707,423.
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Galfre, Andre Marc; Plattier, Marcel; and Teisseire, Paul Jose, 3,649,676.
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Durrant, Donald A.; and Platus, Daniel H., 3,690,596.
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Brunner, Erwin; Platz, Rolf; Taglieber, Kurt; and Weinfurter, Kurt, 3,657,375.
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- Browatzki, Kurt; Gref, Hans; Herzhoff, Peter; Maus, Fritz; Platz, Stephan; Schaum, Gustav; Schweicher, Wolfgang; and Wasser, Willi, 3,676,178.
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- O'Donnell, Cedric F.; Platzek, Richard C.; and Sweeney, James S., 3,680,075.
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- Jacobs, Willi F.; and Platzer, Maximilian F., 3,669,386.
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- Reuschel, Konrad; Platzoder, Karl; and Kursawe, Helga, 3,698,354.
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- Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Typitsyn, Konstantin Konstantinovich; Klimashko, Vladimir Vasilievich; and Plavskikh, Vladimir Dmitrievich, 3,651,874.
- Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tupitsyn, Konstantin Konstantinovich; and Plavskikh, Vladimir Dmitrievich, 3,705,633.
- Plaxin, Vladimir Nikolaevich: *See—*
- Voitsekhovskiy, Bogdan Vyacheslavovich; Kuvshinov, Viktor Alexandrovich; Plaxin, Vladimir Nikolaevich; and Nevsky, Vyacheslav Alexandrovich, 3,668,914.
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- Brandes, Raymond G.; and Pleass, Charles M., 3,635,824.
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- Draber, Wilfried; Buchel, Karl Heinz; and Plempel, Manfred, 3,647,816.
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- Chakraverty, Benoy Kumar; and Plenier, Alain, 3,679,947.
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- Seifert, Friedrich; Bittscheidt, Josef; and Plenikowski, Johannes, 3,668,192.
- Plenz, Joachim: *See—*
- Griehl, Wolfgang; Hahn, Wolf Dieter; and Plenz, Joachim, 3,644,483.
- Plepys, Raymond A.: *See—*
- Hickner, Richard A.; Bredeweg, Corwin J.; and Plepys, Raymond A., 3,682,965.
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- Meininger, Fritz; and Plessen, Helmold Von, 3,663,156.
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- Boom, Roger J.; Cotton, John M.; Goodier, Martin J.; and Cosserat, David C., 3,657,736.
- Cotton, John Michael; and Lloyd, Peter Anthony, 3,680,053.
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- Bass, John C.; and Waterworth, Peter, 3,678,472.
- Caslaw, James S., 3,661,639.
- Clark, Rene, 3,656,725.
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- Cowland, Frederick Claud; and Ord, George, 3,632,974.
- Cowland, Frederick Claud; and Ord, George, 3,658,468.
- Davies, Guy Edward; and Fitzmaurice, Charles Michael, 3,650,285.
- Davies, Guy Edward, 3,680,578.
- Davies, Guy Edward, 3,682,192.
- Fenner, John A.; and Welman, William L., 3,651,567.
- Gurmer, John R.; and Henman, Leslie A., 3,632,031.
- Hardie, Neil S., 3,638,097.
- Kahn, Peter Burno; and North, Norman Frederick, 3,662,544.
- Lea, Charles A., 3,656,167.
- Lea, Michael C.; and Wray, Ronald J., 3,683,476.
- Moss, Norman; and Broad, Michael John, 3,636,967.
- Moss, Norman, 3,677,236.
- Oldfield, Thomas Alfred, 3,676,999.
- Taylor, Peter J., 3,632,219.
- Thompson, Raymond; and Guest, Ashley W., 3,699,479.
- Viner, Derek G.; and Thompson, John S., 3,660,881.
- Plessey Handel und Investments A.G.: *See—*
- Fish, Percy J.; and Clark, Malcolm B., 3,668,533.
- Grundy, Brian; and Hampson, Peter Samuel, 3,706,856.
- Guest, Ashley W., 3,675,139.
- Gwillim, David Thomas; and Whiting, Robin Joseph, 3,700,154.
- Harrison, Donald Keith, 3,663,387.
- Hutchings, Leonard Henry, 3,668,659.
- Mackay, Ronald George, 3,657,795.
- Philip, Alexander Schroder, 3,705,266.
- Wall, Reginald Victor; and Page, Harold Rodney Sven, 3,698,238.
- Watten, Laurence Ernest, 3,668,660.
- Wheaton, Roger W., 3,665,503.
- Plessey Telecommunications Research Limited: *See—*
- Clark, Adrian Percy, 3,688,048.
- Kent, Alan Hugh; and Davis, John Christopher Hammond, 3,667,301.
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- Davis, John Christopher Hammond, 3,677,098.

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- Kalyaeva, Alla Nikolaevna; and Pletnev, Dmitry Vasilievich, 3,644,849.
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- Wolker, Karl, 3,695,865.
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- Pleuger, Friedrich-Wilhelm, 3,675,057.
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- Backhurst, John Rayner; Goodridge, Francis; Plimley, Raymond Ernest; and Fleischmann, Martin, 3,654,098.
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- Scholtis, Walter; Ploch, Siegfried; Schattauer, Friedrich; Schonfuss, Martin; and Heilmann, Horst, 3,646,781.
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- Ploen, Gunter, to Behrens, Joh. Friedrich. Apparatus to drive various fastening means. 3,633,811, 1-11-72, Cl. 227-109.
- Ploetz, Theodor: *See—*
- Opderbeck, Fritz; Ploetz, Theodor; Thamm, Rudolf; and Westerhuis, Popko J., 3,676,294.
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- Baruffa, Olindo; and Plomb, Francis, 3,683,833.
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- Kleiman, Joseph P.; Malec, Robert E.; and Plonsker, Larry, 3,694,382.
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- Plorde, Donald E.: *See—*
- Hall, Henry K., Jr.; and Plorde, Donald E., 3,646,150.
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- Paszke, Jan; Pstrocki, Henry; Ploszajski, Janusz; Lachman, Rudolf; Stanislaw, Lansy; and Wiszczor, Jan, 3,697,051.
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- Bernstein, Edith; Garmaise, David Lyon; and Plotnikoff, Nicholas Peter, 3,687,960.
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- Plourde, Leonard J.: *See—*
- Brawner, William H.; Gunsalus, Claude A.; and Rockwell, Lowell K., 3,698,337.
- Plouzek, Eugene A.: *See—*
- McMurray, Mitchell; Plouzek, Eugene A.; and Sturges, James R., 3,674,279.
- Plovan, Steven G.: *See—*
- Druin, Melvin L.; Loft, John T.; and Plovan, Steven G., 3,679,538.
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- Pospisil, Jaroslav; and Plek, Josef, 3,659,829.
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- Murphy, George R.; Rehn, Glenn E.; and Plum, George L., 3,637,090.
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- Plumadore, Harold M.: *See—*
- Boudouris, Angelo; and Plumadore, Harold M., 3,639,046.
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Atherton, John Heathcote; and Plumb, John Beckett, 3,700,713.
- Plumb, Joseph H., Jr. Spring device for rotating and launching a projectile. 3,635,204, 1-18-72, Cl. 124-16.
- Plumb, Robert D. Archery bow string draw and release device. 3,672,346, 6-27-72, Cl. 124-35.
- Plume, Alfred, Jr., to Mallory Electric Corporation. Capacitor-discharge ignition system for internal combustion engines. 3,646,605, 2-29-72, Cl. 123-148.
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- Plumer, Roy D., to General Motors Corporation. Pressure vessel valve assembly. 3,653,684, 4-4-72, Cl. 280-150.
- Plumhans, Paul Jean. See—
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Jonakin, James; and Plumley, Arthur L., 3,637,347.
- Plumley, Christopher, to Honeywell Inc. Multiple error detector. 3,707,714, 12-26-72, Cl. 340-347,00d.
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Eichberg, Frank D., 3,638,286.
- Plummer, George W., 3,669,777.
- Plummer, Walter A. Snap-on orthopedic splint. 3,682,163, 8-8-72, Cl. 128-87,00r.
- Plummer, William T., to Polaroid Corporation. Method and apparatus for fabricating imaging means. 3,704,617, 12-5-72, Cl. 72-311,000.
- Plump, Ralph E.; and Backiel, Robert M., to United States of America, Army. Fog dispersal. 3,690,552, 9-12-72, Cl. 239-2,00r.
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- Plumpe, Hans; and Puls, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Aryl-sulphonyl-semicarbazides containing heterocyclic acylamino groups. 3,668,215, 6-6-72, Cl. 260-307,00d.
- Plumpe, William H., Jr., and Weichselbaum, Theodore E., to Sherwood Medical Industries, Inc. Photometric read out and analyzing system. 3,701,601, 10-31-72, Cl. 356-96,000.
- Plundo, Robert A. See—
Giannetti, Joseph P.; and Plundo, Robert A., 3,637,503.
- Plunk, Troy E. See—
O'Hara, Francis J.; and Plunk, Troy E., 3,699,574.
- Plunkett, Larry D.; and Massion, Robert J., to Signode Corporation. Tool cart. 3,662,777, 5-16-72, Cl. 137-355,17.
- Plunkett, Larry E., and Rees, Spencer C., to Thor Power Tool Company. Electric power tool. 3,652,879, 3-28-72, Cl. 310-50.
- Plunkett, Raymond A. See—
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- Petkovsek, Richard J.; and Finster, Leslie Phillip, 3,637,164.
- Plunkett, Robert L.; and Bradshaw, John A., to Carlin Container Corporation. Apparatus for making double faced corrugated board with fine printing thereon. 3,639,194, 2-1-72, Cl. 156-470.
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Yale, Harry Louis; and Pluscec, Jelka, 3,644,378.
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- Pluta, Maksymilian. Variable phase-contrast and interference microscope. 3,658,405, 4-25-72, Cl. 350-12.
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- Plyler, Robert G., to General Motors Corporation. Male connector terminal for fiber optic bundles. 3,637,284, 1-25-72, Cl. 350-96.
- Plymouth Flush Door, Inc. See—
Fritze, William R.; and Scarlett, Wallace W., 3,664,009.
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Pechthold, Heinz; and Gold, Gerhard, 3,690,803.
- Pneumatic Scale Corporation. See—
Scully, John W., 3,642,194.
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- Sterling, Walter S., 3,635,325.
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- Sterling, Walter S., 3,696,924.
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- Vergobbi, Robert W., 3,650,369.
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Kamená, David H., 3,654,882.
- Pneumatiques Caoutchouc Manufacture et Plastiques Kleber-Colombes. See—
Ducroco, Roger Eugene; and Chevalier, Michel Henri, 3,660,853.
- Gramain, Jean, 3,690,701.
- Gramain, Jean Charles Marie, 3,654,965.
- Job, Claude; Landler, Yvan; Lebel, Pierre Henri; and Meillat, Lucile, 3,650,874.
- Joug, Roland; and Ragout, Bernard, 3,688,894.
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Beidler, Glenn S., 3,668,977.
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- Pobiner, Harvey, to American Can Company. Complex europium salt. 3,646,080, 2-29-72, Cl. 260-429,2.
- Pobst, John R. Fishing fly. 3,690,029, 9-12-72, Cl. 43-42,250.
- Pocaterra, Luis Alberto. Mechanical transmission system. 3,646,822, 3-7-72, Cl. 74-53.
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Jarusik, Paul; and Pociluyko, Alexander, 3,693,621.
- Pociluyko, Alexander, to Scott Paper Company. Disposable diapers and supporting garment therefor. 3,658,064, 4-25-72, Cl. 128-287.
- Pocklington, Arthur Ronald; and Mahy, Geoffrey Richard, to British Railways Board. Dampened railway truck. 3,682,102, 8-8-72, Cl. 105-157.
- Pocock, Frederick; and Hirsh, Ivan Yehudi, to Molins Machine Company Limited. Production of cigarettes. 3,633,590, 1-11-72, Cl. 131-21.
- Podborsky, Leonid Ermolaevich. See—
Solntsev, Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadiyevich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
- Poddig, Dieter; and Hoffmann, Hans, to U.S. Philips Corporation, mesne. Sensing arrangement for use with apparatus for automatic character recognition. 3,652,989, 3-28-72, Cl. 340-146,3.
- Podobradsky, Everett V. See—
Olson, Floyd C.; and Podobradsky, Everett V., 3,649,300.

- Podobradsky, Everett V., to Mayer, Oscar, & Co., Inc. Method for the continuous manufacture of linked sausage products. 3,672,913, 6n27-72, Cl. 99-109,000.
- Podobradsky, Everett V. Method of preparing fresh pork sausage having improved color. 3,687,689, 8-29-72, Cl. 99-109,000.
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- Podell, Howard I.; and Kehoe, Stephen J., to USM Corporation. Self-locking fasteners. 3,693,389, 9-26-72, Cl. 72-88,000.
- Podesta, William L.; and Miles, Charles R., Jr. Automatic engine starter system including means for releasing the fast idle cam. 3,653,699, 4-4-72, Cl. 290-37.
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Walker, Howard R., 3,696,738.
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Ulyanitsky, Evgeny Mefodievich; and Podgorny, Eduard Vasilievich, 3,679,937.
- Podgorny, Sevantyan Ivanovich. See—
Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.
- Podgurski, Harry H., to United States Steel Corporation. Method for maintaining nitriding atmosphere. 3,684,590, 8-15-72, Cl. 148-16,600.
- Podhajny, Richard M., to Dick, A. B., Company. Novel photoconductive carbazole polymers and photoconductive elements embodying same. 3,697,264, 10-10-72, Cl. 96-15,000.
- Podhora, Fred W. See—
Michel, Raymond S.; and Podhora, Fred W., 3,674,011.
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Vasilkovsky, Lev Fedorovich; Sjsujuk, Vladimir Efimovich; Abrosimov, Nikoloi Nikitovich; Geidebrekhov, Georgy Andreevich; Lyashenko, Vsevolod Andreevich; and Podmogilny, Vladimir Ivanovich, 3,659,642.
- Podmore, Alan William Ronald, to AMP Incorporated. Box edge electrical connector. 3,633,152, 1-4-72, Cl. 339-91.
- Podmore, Alan William Ronald, to AMP Incorporated, mesne. Flat cable connector. 3,675,180, 7-4-72, Cl. 339-17,00f.
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Bradshaw, Arthur; and Podmore, Dennis, 3,685,940.
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Lifshits, Viktor Senderovich; Andrianov, Vladimir Rubenovich; Rykalin, Nikolai Nikolaevich; Krasnev, Tibor Ferentsevich; Podola, Nikolai Vasilievich; and Krivonos, Vadim Petrovich, 3,681,563.
- Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Pentegov, Igor Vladimirovich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; Baglai, Vitaly Mikhailovich; Podola, Nikolai Vasilievich; and Emelyanenko, Jury Georievich, 3,665,081.
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- Podolan, Edward G., to General Motors Corporation. Window regulator. 3,702,041, 11-7-72, Cl. 49-348,000.
- Podolsky, Viktor Grigorievich; Balkarci, Iosif Mikhailovich; and Grigoriants, Sergei Mikhailovich, to Proektiny I Nanchno-Issledovatel'sky Institut. Vibration-absorbing support. 3,705,702, 12-12-72, Cl. 248-20,000.
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Schoenbrun, Errol A.; Lichtenstein, Murray M.; and Podos, Bernard, 3,661,151.
- Podraza, Chester S., to Blackstone Manufacturing Co., Inc. Spare tire and wheel carrier for travel trailers, motor homes, pickup trucks, campers and the like. 3,669,326, 6-13-72, Cl. 224-42,210.
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Dorn, Ludwig; Heinze, Gerhard; and Podschus, Ernst, 3,642,659.
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- Podwys, Stanley, to General Motors Corporation. Support members for a convertible top. 3,666,317, 5-30-72, Cl. 296-116,000.
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Connolly, Douglas P.; and Poehlein, Raymond E., 3,690,176.
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Friedrichsen, Wilhelm; Poehler, Guenter; Goeschel, Gert; and Schaefer, Gerhard, 3,656,914.
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Hall, Frederick W.; and Poehlmann, George, 3,651,449.
- Poel, Dirk E.; Medema, Dirk; Van Helden, Robert; Ferkes, Nanno; Bergmann, Elliot; and Wood, Jack, to Shell Oil Company. Process for the preparation of substituted vinyl esters of acids of phosphorus. 3,658,953, 4-25-72, Cl. 260-970.
- Poeste, Hans-Peter. See—
Vogt, Gerd; and Poeste, Hans-Peter, 3,698,466.
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- Poettmann, Fred H. See—
Kelly, Joe T.; and Poettmann, Fred H., 3,644,194.
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- Poff, Thomas J. See—
Rocks, Eugene S.; and Poff, Thomas J., 3,641,400.
- Poffenbaugh, Donald E. See—
Poffenbaugh, Donald E.; and Piepmeier, Carl W. (said Piepmeier assor. to said), 3,637,045.
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Badami, Angelo V.; Ebert, Ekkehard; Kemlage, Bernard M.; Kroell, Karl E.; and Pogge, H. Bernhard, 3,669,769.
- Pogge, Hans B. See—
Kemlage, Bernard M.; and Pogge, Hans B., 3,698,947.
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- Pogonowski, Ivo C., to Texaco Inc. Flexible storage container for off-shore facility. 3,643,447, 2-22-72, Cl. 61-46.
- Pogonowski, Ivo C.; and Carmichael, Paul D., to Texaco Inc. Liquid storage facility including self-actuating discharge conduit. 3,654,951, 4-11-72, Cl. 137-355,16.
- Pogonowski, Ivo C., to Texaco Inc. Water surface skimmer with check valve. 3,693,801, 9-26-72, Cl. 210-242,000.
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Nikitin, Jury Ivanovich; Sokhin, Sergei Mikhailovich; and Pogorely, Boris Vakulovich, 3,654,153.
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Pogorski, Louis A.; and Reimer, Ernest M., 3,662,928.
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- Pohl, Ludwig; and Eckle, Manfred, to Merck Patent Gesellschaft mit beschränkter Haftung. Standards for N.M.R. spectroscopy. 3,657,147, 4-18-72, Cl. 252-408.
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- Pantke, Heinz-Dieter; and Pohl, Ulrich, 3,634,592.
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- Booher, Richard N.; and Pohland, Albert, 3,657,249.
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- Arnold, Herbert; Brock, Norbert; Kuhas, Engelbert; Lenke, Dieter; and Pohle, Hans, 3,686,311.
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- Marx, Matthias; Pohlemann, Heinz; and Klug, Hans, 3,644,316.
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- Pohler, Herbert. Video tape recorder with single motor driving head wheel and capstan through respective magnetic clutches. 3,636,277, 1-18-72, Cl. 179-100.2.
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- Berthold, Heinz; Kamm, Kurt; and Forster, Wolfgang, 3,653,487.
- Peuker, Kurt; and Sommer, Heinrich, 3,640,376.
- Pohlman, Reimar; Groove, Klaus; and Fichtl, Whalter. Manufacture of alloys. 3,682,459, 8-8-72, Cl. 266-34.00r.
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- Radford, Herschel D.; Pohlmann, Hans P.; and Gutberlet, Louis C., 3,651,163.
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- Pohm, Arthur V.; and Zingg, Roy J., to Iowa State University Research Foundation. Variable diameter disc pack with cooperating head. 3,703,713, 11-21-72, Cl. 340-174.10c.
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- Bryk, Petri; Haani, Martti; Honkasalo, Jorma B.; Kinnunen, Jorma; Lindsjo, Olle; Nyholm, Erik; Pojarvi, Jaakko; Rastas, Jussi; and Kangas, Juhani, 3,677,696.
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- Le Parquier, Guy Francis; Poinsard, Henri Charles; and Jullien, Marie-Jacques, 3,636,561.
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- Duclaux, Daniel; Givry, Jean-Pierre; and Pointud, Jacky, 3,679,555.
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- Gail, Charles P.; Zanetti, Ugo Serra; and Amisano, Andrew L., 3,660,987.
- Poirier, Jean R. Digital amniotome. 3,687,139, 8-29-72, Cl. 128-361.000.
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- Esselin, Raymond; and Poirier, Jean-Claude, 3,652,441.
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- Dorion, Francis W., Jr.; and Poisson, Norman D., 3,633,089.
- Poiter, Fred S., to Da-Lite Screen Company, Inc. Swivel standard for portable projection screen. 3,696,856, 10-10-72, Cl. 160-24.000.
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- Rousseau, Genevieve; Allais, Andre; and Poittevin, Andre, 3,682,964.
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- Peronneau, Georges; and Poizat, Henri, 3,657,475.
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- Newallis, Peter E.; Poje, Albert J.; and Wasleski, Daniel M., 3,657,318.
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- Pokorny, Frank J.: *See—*
- Rickert, Frank J.; and Pokorny, Frank J., 3,678,237.
- Pokrovskaya, Inna Evgenievna: *See—*
- Menyailo, Anatoly Tikhonovich; Pospelov, Mikhail Valerievich; Kaliko, Olga Romanovna; Pokrovskaya, Inna Evgenievna; Fedorova, Valentina Vsevolodovna; Shilnikova, Albina Georgievna; Yakovleva, Antonina Karpovna; and Narozhenko, Tamara Georgievna, 3,664,810.
- Pokusa, Alexei Alexandrovich: *See—*
- Portyanko, Andrei Ivanovich; Lastovenko, Valentin Andreevich; Dudka, Viktor Vasilievich; Rodenko, Fedor Leontievich; Onischenko, Grigory Ivanovich; Vatkin, Adolf Semenovich; Pokusa, Alexei Alexandrovich; and Ruzin, Ivan Mikhailovich, 3,654,997.
- Polacoat, Inc.: *See—*
- Dreyer, John F., 3,658,616.
- Huber, Douglas B., 3,705,757.
- Polak, Lev Solomonovich: *See—*
- Kargin, Valentin Alexeevich; Polak, Lev Solomonovich; Kabanov, Viktor Alexandrovich; Zubov, Vitaly Pavlovich; and Pankova, Valentina Fedorovna, 3,666,740.
- Polak, Teodor: *See—*
- Piper, William S.; and Polak, Teodor, 3,698,394.
- Polakoqski, Stanley J.: *See—*
- Dahlquist, Ernst A.; Polakoqski, Stanley J.; and Vaalburg, Teunis, 3,698,423.
- Polak's Frutal Works, Inc.: *See—*
- Wiener, Charles, 3,645,754.
- Wiener, Charles, 3,650,771.
- Poland, James E.: *See—*
- Bunker, James F.; Poland, James E.; Sayell, Emerson H.; and Schmidt, George V., 3,697,329.
- Poland, Sidney: *See—*
- Pearl, Curt Charles; and Poland, Sidney, 3,680,445.
- Poland, William F.: *See—*
- Devlin, Bernard T.; and Poland, William F., 3,652,835.
- Nelson, Raymond A.; and Poland, William F., 3,635,428.
- Polansky, Sidney: *See—*
- Polk, Edgwin R.; Polansky, Sidney; and Mirando, Louis, 3,661,153.
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- Polar Chilled Products Co., Inc.: *See—*
- Mahlstedt, Gerald F.; and Carruth, Buster L., 3,677,273.

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- Kufirin, Frederick W.; Virnoche, Paul R.; Allen, Donald J.; Gokey, Phillip E.; and Rose, Frederick A., 3,694,825.
- Polaris Chemical Corporation: *See—*
- Putnam, Robert C.; and Young, Jeffrey W., 3,676,389.
- Polaroid Corporation: *See—*
- Andrews, Paul A.; and Coyle, Bernard T., Jr., 3,644,116.
- Arond, Lester H., 3,706,557.
- Bachelder, Albert J., 3,647,441.
- Bachelder, Albert J.; and Binda, Frederick J., 3,652,281.
- Bader, Henry; and Jahngen, Edwin G., Jr., 3,652,597.
- Bader, Henry; and Boag, Alexander, 3,655,764.
- Bader, Henry; and Boag, Alexander, 3,661,996.
- Bailey, James L.; and Mc Cune, Robert F., 3,642,668.
- Baker, James G., 3,664,065.
- Baker, James G., 3,678,831.
- Baker, James G., 3,679,293.
- Baker, James G., 3,689,132.
- Baker, James G., 3,695,750.
- Baker, Philip G., 3,641,909.
- Baker, Philip G.; Cook, Gerald H.; and Downey, Rogers B., 3,687,051.
- Bellows, Alfred H., 3,643,565.
- Bellows, Alfred H., 3,680,946.
- Benton, Stephen A., 3,633,989.
- Benton, Stephen A., 3,657,981.
- Biber, Conrad H., 3,634,725.
- Biber, Conrad H., 3,646,865.
- Biber, Conrad H., 3,650,189.
- Bloom, Stanley M.; and Lambert, Ronald F., 3,644,530.
- Bloom, Stanley M., 3,666,469.
- Bloom, Stanley M.; and Garcia, Paulina P., 3,691,161.
- Bloom, Stanley M.; Borrer, Alan L.; Huyffer, Paul S.; and Macgregor, Paul T., 3,702,244.
- Bloom, Stanley Morton, 3,687,862.
- Buckler, Sheldon A.; and Lambert, Ronald F., 3,640,713.
- Buckler, Sheldon A., 3,661,585.
- Buckler, Sheldon A.; Milligan, Terry W.; and Rogers, Howard G., 3,679,409.
- Buldini, Daniel A., 3,690,433.
- Burgarella, John P., 3,631,776.
- Burgarella, John P., 3,641,891.
- Burgarella, John P., 3,659,509.
- Burgarella, John P.; and Ellin, Seymour, 3,699,861.
- Burke, Edward F., Jr., 3,678,841.
- Burke, Edward F., Jr., 3,688,570.
- Buzzell, Harold O., 3,639,311.
- Buzzell, Harold O., 3,655,494.
- Campbell, John E., 3,649,282.
- Candidus, Edward S., Jr.; Snow, Thomas W.; and Ullathorne, John F., 3,652,165.
- Carlson, David P.; and Reid, Jerome L., 3,649,267.
- Choinski, Edward J., 3,689,003.
- Conner, James M., 3,641,894.
- Cook, Russell P., 3,660,098.
- Coughlan, Edward H., 3,673,935.
- Coughlan, Edward R., 3,685,416.
- De Palma, Bruce E., 3,644,117.
- Debruyne, Frank E., Jr., 3,681,072.
- Debruyne, Frank E., Jr., 3,681,073.
- Dietz, Milton S.; and Lehmann, Walter G., 3,659,512.
- Dietz, Milton S.; and Finnemore, Frederick M., 3,678,832.
- Dietz, Milton S., 3,678,836.
- Douglas, Lawrence M.; and Erlichman, Irving, 3,640,200.
- Douglas, Lawrence M., 3,643,567.
- Downey, Rogers B.; and Thomas, Paul W., 3,641,896.
- Downey, Rogers B.; and Cook, Gerald H., 3,642,229.
- Downey, Rogers B.; and Thomas, Paul W., 3,643,579.
- Downey, Rogers B., 3,644,024.
- Downey, Rogers B., 3,694,206.
- Eacock, Michael F., 3,648,584.
- Eloranta, Vaito K., 3,641,908.
- Eloranta, Vaito K., 3,641,889.
- Erlichman, Irving, 3,631,780.
- Erlichman, Irving, 3,633,474.
- Erlichman, Irving, 3,640,724.
- Erlichman, Irving; and Lawrence, Maxwell E., 3,643,571.
- Erlichman, Irving, 3,653,308.
- Erlichman, Irving, 3,668,991.
- Erlichman, Irving, 3,672,276.
- Erlichman, Irving, 3,678,830.
- Erlichman, Irving, 3,682,062.
- Erlichman, Irving, 3,682,076.
- Erlichman, Irving, 3,687,032.
- Erlichman, Irving, 3,699,865.
- Erlichman, Irving, 3,701,304.
- Erlichman, Irving, 3,702,580.
- Faramarzpour, Faramarz; and Long, Ernest W., 3,652,164.
- Farney, Leonard C., 3,666,460.
- Farney, Leonard C.; and Groncki, Carole L., 3,694,204.
- Farney, Leonard C.; and Haberlin, Richard J., 3,705,804.
- Fitzgerald, Maurice J., 3,681,079.
- Francis, Donald R.; and Haberlin, Richard J., 3,677,753.
- Gerber, Arthur M.; Story, Sybil N.; and Walworth, Vivian K., 3,694,252.
- Gerber, Arthur M.; and Walworth, Vivian K., 3,694,253.
- Gold, Nathan, 3,634,682.
- Gold, Nathan, 3,690,240.
- Gold, Nicholas, 3,705,542.
- Gold, Nicholas, 3,707,116.
- Gondolfe, James D.; Scalan, Ruth; and Ward, Jeanne A., 3,687,660.
- Goulston, Arthur B.; and Huyffer, Paul S., 3,705,184.
- Grasshoff, J. Michael; and Taylor, Lloyd D., 3,674,478.
- Grasshoff, J. Michael; and Taylor, Lloyd D., 3,685,991.
- Groncki, Carole L., 3,639,124.
- Haberlin, Richard J., 3,674,482.
- Hall, John A., Jr.; and Mc Cann, John J., 3,692,388.
- Heijenga, Berend, 3,673,844.
- Hoffman, Arnold, 3,695,876.
- Holmes, William A., 3,682,482.
- Hyland, Albert L., Jr., 3,690,883.
- Johnson, Bruce K.; and Hendry, Donald H., 3,640,194.
- Johnson, Bruce K., 3,653,760.
- Johnson, Bruce K., 3,659,513.
- Johnson, Bruce K., 3,672,275.
- Johnson, Bruce K., 3,683,764.
- Johnson, Bruce K., 3,687,034.
- Johnson, Bruce K., 3,688,660.
- Johnson, Edward J., Jr., 3,642,473.
- Johnson, Edward J., Jr., 3,698,900.
- Klein, Peter O.; and Reid, Jerome L., 3,705,798.
- Knight, Frank W.; and Van Allen, David, 3,679,417.
- Land, Edwin; Ferrari, Leonard A.; Kagan, Sholly; and McCann, John J., 3,651,252.
- Land, Edwin, 3,695,884.
- Land, Edwin H., 3,647,434.
- Land, Edwin H., 3,647,435.
- Land, Edwin H., 3,647,437.
- Land, Edwin H., 3,651,746.
- Land, Edwin H., 3,652,282.
- Land, Edwin H., 3,655,277.
- Land, Edwin H., 3,664,250.
- Land, Edwin H., 3,671,241.
- Land, Edwin H., 3,672,281.
- Land, Edwin H., 3,672,283.
- Land, Edwin H., 3,672,890.
- Land, Edwin H.; and Erlichman, Irving, 3,675,551.
- Land, Edwin H., 3,682,637.
- Land, Edwin H.; and Bellows, Alfred H., 3,683,770.
- Land, Edwin H., 3,683,771.
- Land, Edwin H., 3,684,359.
- Land, Edwin H., 3,690,879.
- Land, Edwin H.; Bloom, Stanley M.; and Farney, Leonard C., 3,704,126.
- Leduc, Robert D., 3,653,313.
- Lehmann, Walter G., 3,685,412.
- Levy, Boris, 3,656,962.
- Makas, Albert S., 3,647,278.
- Makas, Albert S., 3,663,089.
- Malster, Robert L., 3,647,442.
- Mason, Paul B., 3,661,578.
- Moodie, Donald E., 3,631,773.
- Moodie, Donald E., 3,674,965.
- Moodie, Donald E., 3,678,818.
- Morse, John B., 3,691,508.
- Morse, John B., 3,692,991.
- Nissan, Joseph S., 3,639,459.
- Norris, Philip R., 3,661,064.
- Norris, Philip R., 3,687,041.
- Paglia, Richard, 3,688,667.
- Paglia, Richard, 3,705,537.
- Pasieka, John F., 3,696,716.
- Petersen, Christian C., 3,691,312.
- Piesach, Joel M., 3,658,524.
- Plasse, Paul A., 3,674,622.
- Plummer, William T., 3,704,617.
- Rasmussen, Dimite J.; and Roth, Peter H., 3,707,370.
- Reed, John M.; Reynard, John M.; and Scibilia, Peter A., 3,705,540.
- Rogers, Howard G., 3,652,149.
- Rogers, Howard G., 3,689,262.
- Rogers, Howard G.; and Taylor, Lloyd D., 3,697,279.
- Rogers, Howard G., 3,701,656.
- Seiden, Myron A., 3,641,886.
- Sharp, John R., 3,654,848.
- Simon, Myron S., 3,641,034.
- Simon, Myron S.; and Waller, David P., 3,702,245.
- Solodar, Warren E., 3,691,210.
- Stephens, Robert K., 3,676,123.

- Stephens, Robert K., 3,679,411.
 Stieger, Frank M., 3,682,068.
 Sullivan, Robert T., 3,697,175.
 Taylor, Lloyd D., 3,694,439.
 Taylor, Lloyd D., 3,702,829.
 Timson, William J., 3,697,269.
 Timson, William J., 3,697,270.
 Timson, William J., 3,697,271.
 Weed, Lucretia J., 3,700,441.
 Whall, James M., 3,650,188.
 Wolbarst, John, 3,699,867.
 Young, Richard W.; and Malin, Murray E., 3,672,752.
 Polashenski, Walter A.: See—
 Larson, John F.; and Polashenski, Walter A., 3,638,275.
 Larson, John F.; and Polashenski, Walter A., 3,660,865.
 Polasky, Alex F.: See—
 Heinrichs, Frank W., Jr.; Polasky, Alex F.; Honey, Charles C.; and Toothman, Lawrence R., 3,681,516.
 Pole, Robert F.: See—
 Lean, Eric G.; Pennington, Keith S.; Pole, Robert F.; and Powell, Carl G., 3,633,995.
 Pole, Robert V.: See—
 Lean, Eric G.; Pole, Robert V.; and Tseng, Samuel Chin-Chong, 3,633,996.
 Pole, Robert V., to International Business Machines Corporation. Coordinate input device. 3,654,389, 4-4-72, Cl. 178-18.
 Pole, Robert Valdimir: See—
 Lean, Erich Gung Hwa; Pole, Robert Valdimir; and Tseng, Samuel Chin-Chong, 3,684,892.
 Polen, Karl L., to Alliance Machine Company, The. Stabilized reeling for cranes. 3,653,518, 4-4-72, Cl. 212-125.
 Polenz, Thomas R.; and Schober, Elmer A., to Maynard Electric Steel Casting Co. Power demand control apparatus. 3,659,114, 4-25-72, Cl. 307-52.
 Poleska, Horst; and Fleischhauer, Horst, to VEB Rathenower Optische Werke. Device for clamping of buffing and polishing cloths. 3,638,272, 2-1-72, Cl. 15-230.19.
 Polestak, Walter J., to Celanese Corporation. Filaments and films of polymers of alkylene sulfides. 3,668,060, 6-6-72, Cl. 161-173.
 Poletaeva, Irina Alexandrovna: See—
 Kormer, Vitaly Abramovich; Babitsky, Boris Davidovich; Jufa, Tatyana Lvovna; and Poletaeva, Irina Alexandrovna, 3,660,369.
 Poletti, Charles Ellis. Joint means for use in work supporting arm. 3,638,973, 2-1-72, Cl. 285-184.
 Poletto, John Frank; Allen, George Rodger, Jr.; and Weiss, Martin Joseph, to American Cyanamid Company. Certain-(2-amino-4-thiazolyl) indoles. 3,646,053, 2-29-72, Cl. 260-306.8.
 Poletto, John Frank; Allen, George Rodger, Jr.; Littell, Ruddy; and Weiss, Martin Joseph, to American Cyanamid Company. Substituted aminoethylindoles. 3,686,213, 8-22-72, Cl. 260-326.150.
 Polevy, John H.: See—
 Holland, Dewey G.; and Polevy, John H., 3,686,288.
 Holland, Dewey G.; Moyer, Ronald C.; Polevy, John H.; and Walde, Robert A., 3,699,156.
 Polgar, Michael S.: See—
 Majkrzak, Charles P.; and Polgar, Michael S., 3,704,499.
 Spanos, William M.; and Polgar, Michael S., 3,641,578.
 Polhemus Navigation Sciences, Inc.: See—
 Polhemus, William L., 3,683,378.
 Polhemus, William L., to Polhemus Navigation Sciences, Inc. Heading error computer. 3,683,378, 8-8-72, Cl. 343-7.0ed.
 Poli, Albert A., Jr.; and Delaune, Sidney D., to Mine Safety Appliances Company. Apparatus for measuring carbon monoxide and total hydrocarbons in gas sample. 3,692,492, 9-19-72, Cl. 23-254.00e.
 Poli, David L. Container apparatus. 3,679,087, 7-25-72, Cl. 220-18.000.
 Polichette, Joseph: See—
 Schneble, Frederick W., Jr.; McCormack, John F.; Zeblicky, Rudolph J.; Williamson, John Duff; and Polichette, Joseph, 3,672,986.
 Policht, Stanislaw A.: See—
 Oxberry, John W.; Bender, Werner K.; and Policht, Stanislaw A., 3,682,540.
 Policlinica de Stomatologie Protetica: See—
 Costa, Eugen; Enc, Lucian; Dumitrescu, Stelica; and Covaci, Ioan, 3,695,333.
 Polidori, Mario, to AMP Incorporated. Connector for underground utility applications. 3,633,147, 1-4-72, Cl. 339-19.
 Polin, Herbert S.; and Kuhn, Gustavo, to Vogel, Paul. Time setting device for an electronic watch. 3,643,418, 2-22-72, Cl. 58-23.
 Polin, Herbert S.; and Kuhn, Gustavo, to Vogel, Paul. Time setting device for an electronic clock. 3,668,859, 6-13-72, Cl. 58-23.000.
 Polin, Jerry, to Alco Standard Corporation. Method for applying a flowable substance to a workpiece. 3,695,911, 10-3-72, Cl. 117-34.000.
 Poling, Ezar C.; and Botsford, Charles E., to Eastman Kodak Company. Apparatus for resetting the corner of deep-drawn laminated articles. 3,703,428, 11-21-72, Cl. 156-382.000.
 Polinsky, Ronald J.: See—
 Post, Arthur H., Jr.; Polinsky, Ronald J.; and Dwyer, James L., 3,674,678.
 Polinsky, Samuel M.; and Schellinger, Alfred K., to Kennecott Copper Corporation. Process for desulfation of alkaline solutions. 3,655,337, 4-11-72, Cl. 23-122.
 Polise, Joseph C.: See—
 Vogt, Clifford M.; and Polise, Joseph C., 3,689,342.
 Polit, Neil A.: See—
 Hutner, Mark A.; Polit, Neil A.; Watson, Donald W.; and Artelt, Herbert C., Jr., 3,700,324.
 Polit, Neil A.; and Enskat, Albert G., to Xerox Corporation. Article handling apparatus. 3,705,719, 12-12-72, Cl. 271-3.000.
 Politycki, Alfred; Jecht, Ulrich; and Gullasch, Jurgen, to Siemens Aktiengesellschaft. Arrangement for facilitating adjustment of the electronic beam of an electronic-beam microanalyzer and method of producing same. 3,659,098, 4-25-72, Cl. 250-49.5.
 Politzer, Alfred; Atam Alibeckoff, Galib-Bey; and Wang, Pao-Chi, to Nylong Corporation. Water absorbent web and its production. 3,657,035, 4-18-72, Cl. 156-78.
 Polizzano, Fred F.: See—
 Broroin, William J.; and Polizzano, Fred F., 3,693,250.
 Polk, Albert S., Jr., to Johns Hopkins University. The. Fin mount latch. 3,648,953, 3-14-72, Cl. 244-2.24.
 Polk, Albert S., Jr., to United States of America, Navy. Stowable air scoop. 3,659,424, 5-2-72, Cl. 60-269.
 Polk, Edgwin R.; Polansky, Sidney; and Mirando, Louis, to Packaging Associates Inc. Body fluid drainage bag. 3,661,153, 5-9-72, Cl. 128-275.
 Polk, Emil S. Key ring construction. 3,635,058, 1-18-72, Cl. 70-459.
 Polk, James A. Circular function teaching aid. 3,663,732, 5-16-72, Cl. 35-34.
 Polk, Ralph, Jr. Fruit peeling knife assembly. 3,680,614, 8-1-72, Cl. 146-3.00m.
 Polk, William M.: See—
 Johnsen, Eric C.; Polk, William M.; and Brockman, Robert A., 3,681,722.
 Polkinghorn, Melvin William: See—
 Burgess, James Patton; Polkinghorn, Melvin William; and Brzozowski, Steve Joseph, 3,668,603.
 Polkinghorn, Robert W.: See—
 Padgett, Clarence W.; and Polkinghorn, Robert W., 3,660,684.
 Polkovnikova, Antonina Grigorievna: See—
 Khcheian, Khachik Egorovich; Revenko, Olga Mikailovna; Tikhonova, Margarita Petrovna; Polkovnikova, Antonina Grigorievna; and Mak, Nikolai Emelianovich, 3,634,487.
 Pollack, George: See—
 Goldberg, Marvin E.; and Pollack, George, 3,687,209.
 Pollack, Isidore; and Dohogne, Charles L., to Purex Corporation, Ltd. Method for preventing caustic spray in electrochemical cleaning. 3,652,432, 3-28-72, Cl. 204-141.
 Pollack, Jerry J.: See—
 Reim, Thomas E.; Pollack, Jerry J.; and Kemmerling, Robert A., 3,678,268.
 Pollack, Martin Alan: See—
 Bridges, Thomas James; Kaminow, Ivan Paul; and Pollack, Martin Alan, 3,644,846.
 Pollack, Russell G.; and Comer, Horace E.; deceased (by Wubbolding, Paul T.; executor), to Vaughn's of Arizona. Molded expandable nursery tray. 3,660,934, 5-9-72, Cl. 47-34.110.
 Pollack, William, to Westinghouse Electric Corporation. Method of making diffusion bonded battery plaques. 3,702,019, 11-7-72, Cl. 29-2.000.
 Pollak, Fred, to Polychrome Corporation. Thermographic stencil sheet. 3,681,112, 8-1-72, Cl. 117-35.500.
 Pollak, Gottfried; and Kolb, Peter, to Tehalit Kunststoffwerk G.m.b.H. Firma. Installation channel. 3,697,667, 10-10-72, Cl. 174-68.00c.
 Pollak, Henry M.; and Pollak, Robert S. Arbor saw. 3,670,788, 6-20-72, Cl. 143-36.00r.
 Pollak, Joseph, Corporation: See—
 Batcheller, Kent J., 3,643,044.
 Pollak, Kurt, to Esso Research and Engineering Company. Amine derivatives of dithiophosphoric acid compounds. 3,637,499, 1-25-72, Cl. 252-32.7.
 Pollak, Lynn F.: See—
 Cooper, Barbara T.; Pollak, Lynn F.; and Kodner, Penny W., 3,670,339.
 Pollak, Peter I.: See—
 Weinstock, Leonard M.; Tull, Roger J.; and Pollak, Peter I., 3,636,209.
 Pollak, Peter I.; Wendler, Norman L.; and Christensen, Burton G., to Merck & Co., Inc. Method for the preparation of antibiotics and intermediates. 3,649,619, 3-14-72, Cl. 260-239.
 Pollak, Peter I.; Wendler, Norman L.; and Christensen, Burton G., to Merck & Co., Inc. (Cis-1,2-epoxypropyl) phosphonic acid intermediates. 3,652,739, 3-28-72, Cl. 260-948.
 Pollak, Robert S.: See—
 Pollak, Henry M.; and Pollak, Robert S., 3,670,788.
 Pollanen, Kyosti Johannes, to Velsa Oy Kurikka. Motor sledge. 3,692,132, 9-19-72, Cl. 180-5.00r.
 Pollard, Barry: See—

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 Basham, Edgar W.; Knapman, John E.; Pollard, Gordon D.; Anthony, John B.; and Munro, Alan C., 3,642,289.
 Pollard, Kenneth Lloyd. Coping and fascia trim. 3,668,811, 6-13-72, Cl. 52-94.000.
 Pollard, Melville R., Jr.: See—
 Pollard, Melville R., Jr., 3,635,137.
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 Pollard, Richard J.: See—
 Bow, William J.; and Pollard, Richard J., 3,705,494.
 Pollard, Thomas, to Gullick Limited. Mine roof support. 3,646,769, 3-7-72, Cl. 61-45.
 Pollari, Howard M.: See—
 Kueny, Don F.; and Pollari, Howard M., 3,667,431.
 Pollart, Dale Flavian: See—
 Lundberg, Robert Dean; Koleske, Joseph Victor; Pollart, Dale Flavian; and Smarook, Walter Henry, 3,641,204.
 Phillips, Benjamin; Pollart, Dale Flavian; and Koleske, Joseph Victor, 3,692,023.
 Poller, Harry S., to Missouri Lead Operating Company. Guide rope stabilizer. 3,662,862, 5-16-72, Cl. 187-95.000.
 Pollet, Robert Joseph: See—
 Philippaerts, Herman Adelbert; Pollet, Robert Joseph; Willems, Jozef Frans; and Claes, Frans Henri, 3,661,592.
 Willems, Jozef Frans; Heugebaert, Frans Clement; and Pollet, Robert Joseph, 3,667,957.
 Willems, Jozef Frans; Berendsen, Jules Robert; Pollet, Robert Joseph; and Vandenberghe, Antoon Leon, 3,689,273.
 Pollet, Robert Joseph; and Vandenberghe, Antoon Leon, to Gevaert-Agfa N.V. Silver halide emulsion containing acetylene dicarboxylic acid anions antifoggant. 3,679,423, 7-25-72, Cl. 96-109.000.
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 Pollinger, Hans: See—
 Meir, Franz; Pollinger, Hans; and Schmucker, Bernhard, 3,683,818.
 Pollinger, Hans, to Knorr-Bremse GmbH. Tilt control system responsive to the curvilinear travel of a vehicle. 3,688,703, 9-5-72, Cl. 105-453.000.
 Pollington, Bernard M.; and Pollington, Leslie W. Cutting tool. 3,655,969, 4-11-72, Cl. 29-96.
 Pollington, Leslie W.: See—
 Pollington, Bernard M.; and Pollington, Leslie W., 3,655,969.
 Pollitt, Gary L.: See—
 Call, Henry M.; Crain, Norman Robert; Crain, William W.; Pollitt, Gary L.; and Rea, Donald E., 3,684,864.
 Pollitt, Erwin P.: See—
 Criss, Donald H.; and Pollitt, Erwin P., 3,652,751.
 Pollitt, Gary L.: See—
 Crain, N. Robert; Crain, William W.; Pollitt, Gary L.; and Rea, Donald E., 3,684,076.
 Pollitzer, Ernest L.: See—
 Hayes, John C.; and Pollitzer, Ernest L., 3,649,566.
 Hayes, John C.; and Pollitzer, Ernest L., 3,691,064.
 Mitsche, Roy T.; and Pollitzer, Ernest L., 3,632,835.
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 Pollitzer, Ernest L.; and Hilfman, Lee, to Universal Oil Products Company. Gasoline producing process comprising hydrocracking and reforming. 3,663,425, 5-16-72, Cl. 208-60.
 Pollitzer, Ernest L., to Universal Oil Products Company. Hydrocarbon isomerization process. 3,679,602, 7-25-72, Cl. 252-442.
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 Pollitzer, Ernest L., to Universal Oil Products Company. Low pressure, low severity hydrocracking process. 3,692,666, 9-19-72, Cl. 208-112.000.
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 Pollmann, Horst: See—
 Bosch, Berthold; and Pollmann, Horst, 3,634,780.
 Pollmeier, Konrad: See—
 Nicolay, Karl; and Pollmeier, Konrad, 3,704,884.
 Pollock, Alex: See—
 Maassen, Ralph; and Pollock, Alex, 3,662,766.
 Pollock, Andre W., to Sun Oil Company. Houdrflow cracking process. 3,679,563, 7-25-72, Cl. 208-166.000.
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 Pollock, Gordon J., to Mills Company, The. Partition structure. 3,694,975, 10-3-72, Cl. 52-36.000.
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 Pollock, Lyle W., to Phillips Petroleum Company. Apparatus for controlling the temperature of the electrolyte in an electrolytic cell. 3,707,457, 12-26-72, Cl. 204-278.000.
 Pollution Control, Inc.: See—
 Reckers, Donald J., 3,642,134.
 Pollution Control Industries, Inc.: See—
 Verses, Christ J.; and Karlson, Eskil L., 3,704,096.
 Pollution Control Products, Inc.: See—
 Koulovatos, James; and Thomas, Kenneth L., 3,679,053.
 Pollution Engineering International, Inc.: See—
 Armstrong, Louis B., 3,664,951.
 Pollution Monitors, Inc.: See—
 Lyshkow, Norman A., 3,667,918.
 Pollution Techtronics, Inc.: See—
 Gati, Louis, 3,651,755.
 Pollutrol Group, The: See—
 Brown, George E., Jr., 3,661,787.
 Polly, Edgar: See—
 Brune, Werner; Schwartz, Gunter; Dull, Ernst Hermann; and Polly, Edgar, 3,665,393.
 Polly, George W.: See—
 McAndrew, France B.; Polly, George W.; and Heinz, Walter E., 3,641,192.
 Polly, Jack J., Sr. Snowmobile toe warmer. 3,644,704, 2-22-72, Cl. 219-202.
 Polly, Jack J., Sr. Vehicle handle bar heater. 3,667,315, 6-6-72, Cl. 74-551.800.
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 Polonis, Douglas Hugh: See—
 Larson, Jay Michael; Polonis, Douglas Hugh; and Taggart, Raymond, 3,657,083.
 Polonsky, Samuel; and Boyles, Robert L., to General Electric Company. Illuminated display indicator. 3,683,524, 8-15-72, Cl. 40-28.00c.
 Polonyi, Joseph. Modular space toy. 3,686,789, 8-29-72, Cl. 46-43.000.
 Poloron Products of Indiana, Inc.: See—
 Quiram, Ronald G., 3,706,188.
 Polotovskaya, Lidia Grigorievna: See—
 Skripko, Leonid Alexandrovich; Rozantsev, Eduard Grigorievich; and Polotovskaya, Lidia Grigorievna, 3,641,091.
 Polouektov, Jean Paul, to Snowball Trading Agencies S.A. Anti-roll stabilising installation for ships. 3,683,837, 8-15-72, Cl. 114-125.000.
 Polovina; Walter, to Rexall Drug and Chemical Company. Process for preparing thermoplastic resin-additive compositions. 3,637,571, 1-25-72, Cl. 260-34.2.
 Polska Akademia Nauk: See—
 Nechay, Andrzej, 3,660,775.
 Zmyslowski, Wojciech; Decowska, Zofia; Gawronski, Ryszard; Borejko, Zdzislaw; Decowski, Marek; and Wirski, Janusz, 3,657,646.
 Polska Akademia Nauk Instytut Chemii Fizycznej: See—
 Jasny, Jan, 3,678,272.
 Polson, Alfred; and Katz, Woolf, to South African Inventions Development Corporation. Chemically hardened gelatin separating medium for chromatography and ion exchange and method of making the same. 3,640,809, 2-8-72, Cl. 204-180.
 Poltonavage, Edward Michael, to AMP Incorporated. Electrical pin with tab receptacles and method of making same. 3,636,505, 1-18-72, Cl. 339-256.
 Poltorak, Emil Jacob, to Johns-Manville Corporation. Method of forming a resilient and heat resistant packing. 3,639,187, 2-1-72, Cl. 156-149.
 Poludetkin, Vladimir Romanovich; Menitsky, Iosif Donatovich; and Kaplan, Jury Abramovich. Indexing attachments used in machines for sharpening multipoint tools. 3,638,513, 2-1-72, Cl. 74-820.
 Polumbus, Emile A., Jr. Accessory for footwear. 3,664,043, 5-23-72, Cl. 36-71.000.
 Poly-Mech Products, Incorporated: See—
 White, James E., 3,660,878.
 Poly-Optics, Inc.: See—
 Wall, Lamar J., 3,641,335.
 Poly-Version, Inc.: See—
 Lindley, Donald C., 3,681,784.
 Polyakov, Boris Nikolaevich: See—

- Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Polyakov, Boris Nikolaevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich, 3,688,833.
- Polyakov, Evgeny Valentinovich: *See—*
- Vereschagin, Leonid Fedorovich; Yakovlev, Evgeny Nikolaevich; Konyaev, Jury Sergeevich; Polyakov, Evgeny Valentinovich; Novikov, Albert Pavlovich; Bakul, Valentin Nikolaevich; Skripko, Gely Fomich; and Tsylin, Nekhemian Veniaminovich, 3,694,177.
- Polyakov, Georgy Filippovich; Vanin, Vladimir Lvovich; and Kamardin, Vladimir Alexandrovich. Metallic sealing member for locking and split devices. 3,655,209, 4-11-72, Cl. 277-235.
- Polycarbona Chemie GmbH: *See—*
- Ackermann, Paul; and Heinrichs, Helmut, 3,657,333.
- Polycast Technology Corporation, The: *See—*
- Daddona, Paul R., 3,648,965.
- Daddona, Paul R., 3,694,129.
- Polychemie G.m.b.H. Augsburg: *See—*
- Scholz, Klaus L. J.; and Psader, Josef, 3,661,804.
- Polychrome Corporation: *See—*
- Golda, Eugene; and Taudien, Alfred, 3,669,660.
- Kobayashi, Kesanoo, 3,635,709.
- Mainthia, Shashi B., 3,660,097.
- Pollak, Fred, 3,681,112.
- Polycon Industries, Inc.: *See—*
- Stollman, Irving; and Banaitis, Raymond, 3,655,034.
- Polydesigns Limited: *See—*
- Holdham, Bertram Roy, 3,696,762.
- Polydoras, George N.: *See—*
- Greenwood, Marvin H.; Slaughter, Lomis, Jr.; and Polydoras, George N., 3,651,711.
- Polye, William Ronald R., to Bendix Corporation, The. Capacitance type pressure transducer. 3,634,727, 1-11-72, Cl. 317-231.
- Polyflon Corporation: *See—*
- Russo, Paul; and Mowogrozki, Markus, 3,675,093.
- Russo, Paul, 3,678,349.
- Polygon Concepts: *See—*
- Souza, Augustine A., 3,700,137.
- Polylok Corporation: *See—*
- Simpson, Elsworth C., 3,672,187.
- Simpson, Elsworth C., 3,677,034.
- Polymark Limited: *See—*
- Valentine, Norman Stanley, 3,657,832.
- Polymer Corporation: *See—*
- Dunn, John Robert, 3,635,862.
- Kent, Eric G., 3,639,525.
- Swinney, Frederick Bernard, 3,656,476.
- Polymer Corporation Limited: *See—*
- Beaton, John; Edwards, Douglas C.; and Wunder, Richard Helmut, 3,639,339.
- Buckler, Ernest J.; Coulthart, Hugh K.; Mc Cracken, Nathan J.; and Marcinkowski, Mieczyslaw, 3,637,635.
- Coulthart, Douglas, 3,644,590.
- Darcy, Jules, 3,632,682.
- Dunlop, Alfred Norman, 3,645,926.
- Edwards, Douglas C.; and Dolezal, Premysl Thomas, 3,635,865.
- Jasinsky, Victor; and Upfold, Ambrose T., 3,667,408.
- La Flair, Ronald Turner; and Henderson, John Frederick, 3,641,205.
- Lasis, Evalds; and McCracken, Nathan John, 3,646,001.
- Lasis, Evalds, 3,647,913.
- Robinson, Keith J.; and Pfisterer, Heinz A., 3,686,364.
- Waker, John; and McEuan, Ronald H., 3,645,817.
- Walker, John; and McEuan, Ronald Hindmarch, 3,649,438.
- Polymer Corporation, The: *See—*
- Haag, Laurence H., 3,645,960.
- Richart, Douglas Steven, 3,640,747.
- Polymer Machinery Corporation: *See—*
- Frimberger, Herbert H., 3,653,702.
- Polymer Processing Research Institute Ltd.: *See—*
- Yazawa, Masahide; and Tsuyama, Setsuya, 3,635,633.
- Yazawa, Masahide; Okada, Tokio; and Yamano, Kazuo, 3,662,935.
- Yazawa, Masahide, 3,667,094.
- Yazawa, Masahide; and Tani, Haruhisa, 3,669,795.
- Yazawa, Masahide; and Tani, Haruhisa, 3,677,484.
- Yazawa, Masahide, 3,693,851.
- Polymer Research Corporation: *See—*
- Horowitz, Carl, 3,698,931.
- Polymer Sciences Corporation: *See—*
- Wiedeman, John A., 3,646,189.
- Polymetallurgical Corporation: *See—*
- Dion, Paul A.; and Hagarman, Paul O., 3,702,497.
- Polymetrics, Incorporated: *See—*
- Clark, Timothy M.; Shanfield, Henry; and Grunau, David L., 3,679,055.
- Polytron Ltd.: *See—*
- Krauer, Werner; Martinelli, Alfred; and Oehme, Friedrich, 3,657,731.
- Krauer, Werner; Martinelli, Alfred Adalbert; and Oehme, Friedrich, 3,666,652.
- Krauer, Werner; and Martinelli, Alfred, 3,677,577.
- Polypac, Inc.: *See—*
- Grisell, Richard T., 3,641,725.
- Polysius AG: *See—*
- Balzau, Gerhard; and Fosshag, Wolfgang, 3,642,178.
- Janich, Hans Jurgen, 3,656,618.
- Klein, Hans; and Kluger, Wolfgang, 3,656,717.
- Polysius, Jochen; and Ritzmann, Horst, 3,653,644.
- Polysius, Jochen; and Ritzmann, Horst, 3,656,722.
- Ritzman, Horst; Heinemann, Otto; and Goldman, Wolf, 3,665,614.
- Weber, Paul; Ritzmann, Horst; and Butschko, Gerhard, 3,664,650.
- Polysius G.m.b.H.: *See—*
- Janich, Hans Jurgen, 3,672,502.
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- Hazard, Robert E., 3,651,992.
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- Hazard, Robert E., 3,655,099.
- Hazard, Robert E., 3,655,103.
- La Vange, Donald H., 3,659,750.
- Wilson, Woodrow S., 3,690,514.
- Wilson, Woodrow S., 3,707,240.
- Polytronic Ltd.: *See—*
- Thalmann, Claude, 3,705,725.
- Polytronic SA: *See—*
- Oetiker, Hermann Walter, 3,677,546.
- Polytype AG: *See—*
- Aebersold, Rene; and Lehmann, Werner, 3,685,441.
- Polzin, Dwaine N.; and Lesko, Leslie J., to General Motors Corporation. Angle dozer assembly. 3,662,838, 5-16-72, Cl. 172-804.000.
- Pomagalski, Jean, S.A.: *See—*
- Durand, Marcel, 3,640,506.
- Durand, Marcel, 3,640,505.
- Pomara, Johnny B., Jr., 1/2 to El Chico Corporation. Apparatus for measuring and dispensing particulate material. 3,674,178, 7-4-72, Cl. 222-56.000.
- Pomaret, Carlos: *See—*
- Pourrias, Bernard; Huet, Yves; and Pomaret, Carlos, 3,641,124.
- Pomathios, Jacques: *See—*
- Leopold, Henri; and Pomathios, Jacques, 3,676,128.
- Pomatti, Renato C.: *See—*
- Colc, Edward L.; Hess, Howard V.; and Pomatti, Renato C., 3,707,056.
- Pomatti, Renato C., to Texaco Inc. Reinforced polyethylene. 3,701,750, 10-31-72, Cl. 260-41.000.
- Pomazak, Eugene: *See—*
- Sorell, Henry P.; Pomazak, Eugene; and Rygg, Sven, 3,679,458.
- Pomella, Piero; Baratto, Elia; and Lauro, Luciano, to Olivetti, Ing., C. & C., S.p.A. Analog to digital converters having multiple units of measurement. 3,696,398, 10-3-72, Cl. 340-347.0ad.
- Pomella, Piero; and Lauro, Luciano. Control devices. 3,703,327, 11-21-72, Cl. 318-571.000.
- Pomerantz, Marilyn: *See—*
- Glasgow, Horack K., 3,636,951.
- Pomeranz, Jehoshua N.: *See—*
- Donofrio, Nicholas M.; and Pomeranz, Jehoshua N., 3,676,704.
- Kemerer, Douglas W.; and Pomeranz, Jehoshua N., 3,656,004.
- Pomeranz, Yeshajahu; and Finney, Karl F., to United States of America, Agriculture. Protein-enriched baked products and method of making same. 3,679,433, 7-25-72, Cl. 99-90.0hp.
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- Saari, Oliver E.; and Pomernacki, Henry, 3,636,707.
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- Pomeroy, J. A., & Company: *See—*
- Kowell, Edward L., 3,685,782.
- Pomeroy, J. H., & Co., Inc.: *See—*
- Gerwick, Ben C., Jr., 3,667,238.
- Pomeroy, Paul E.; and Dixon, Lucia B. Method and apparatus for drilling multiple holes. 3,637,317, 1-25-72, Cl. 408-1.
- Pomeroy, Raymond V.: *See—*
- Hsu, Yung Shing; and Pomeroy, Raymond V., 3,678,808.
- Pomeroy, Raymond Visher, to Omark Industries, Inc. Stud driving tool. 3,658,229, 4-25-72, Cl. 227-10.000.
- Pomeroy, Raymond Visher, to Omark Industries, Inc. Automatic feeding of fasteners. 3,670,942, 6-20-72, Cl. 227-10.000.

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- Mackas, Vladimir; and Pomeroy, Walter S., 3,683,475.
- Pomey, Jacques, to Union Siderurgique du Nord et de l'Est de la France par Abreviation 'Usinor'. Method for quenching steel rails in a fluidized powder medium. 3,658,602, 4-25-72, Cl. 148-14.
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- Pommer, Denis L.: *See—*
- Hasten, Mark; Jones, Lee S.; and Pommer, Denis L., 3,646,894.
- Pommer, Edwin B., to Blumenthal, B., & Co., Inc. Machine and method for card mounting shanked buttons. 3,703,760, 11-28-72, Cl. 29-433.000.
- Pommer, Ernst-Heinrich: *See—*
- Hock, Karl Ludwig; and Pommer, Ernst-Heinrich, 3,686,256.
- Osieka, Hans; Koenig, Karl-Heinz; and Pommer, Ernst-Heinrich, 3,660,421.
- Reuther, Wolfgang; Petersen, Harro; Raff, Paul; and Pommer, Ernst-Heinrich, 3,657,412.
- Sander, Bruno; Sperber, Heinrich; Pommer, Ernst-Heinrich; Clad, Werner Helmut; and Wittmann, Otto, 3,651,006.
- Sanne, Walter; Koenig, Karl-Heinz; Pommer, Ernst-Heinrich; and Stummeyer, Herbert, 3,686,399.
- Schenk, Walter; and Pommer, Ernst-Heinrich, 3,642,995.
- Pommer, Horst: *See—*
- Fischer, Roman; and Pommer, Horst, 3,639,437.
- Mueller, Herbert; Overwien, Hermann; Koehl, Harald; and Pommer, Horst, 3,662,001.
- Mueller, Herbert; Koehl, Harald; and Pommer, Horst, 3,670,028.
- Mueller, Herbert; Overwien, Hermann; and Pommer, Horst, 3,692,848.
- Schuster, Ludwig; and Pommer, Horst, 3,658,852.
- Pommer, Horst; Mueller, Herbert; Mangold, Dietrich; and Palm, Christof, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of ethers and esters of 4-hydroxytiglaldehyde. 3,637,817, 1-25-72, Cl. 260-491.
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- Pommer, Horst; Seid, Bernhard; Nuerrenbach, Axel; Klotmann, Georg; and Grassner, Hans, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous production of axerophthol. 3,681,466, 8-1-72, Cl. 260-617.00a.
- Pommerening, Uwe A.: *See—*
- Guldenpfennig, Klaus; Pommerening, Uwe A.; and Russell, Stanley L., 3,676,606.
- Guldenpfennig, Klaus; Pommerening, Uwe A.; and Russell, Stanley L., 3,679,835.
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- Pommie, Pierre. Multi-purpose cart and mixer. 3,638,923, 2-1-72, Cl. 259-177.
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- Pompey, Walter, to W-L Molding Company. Roller and retainer for a wire basket. 3,672,743, 6-27-72, Cl. 312-352.000.
- Pompian, Stuart D.: *See—*
- Naiman, Charles S.; and Pompian, Stuart D., 3,676,003.
- Pompili, Peter L.: *See—*
- Hasselbach, Werner; and Pompili, Peter L., 3,691,441.
- Pon, Harry: *See—*
- Erickson, Walter C.; and Pon, Harry, 3,688,983.
- Ponce, Lucien G. Adjustable stamping press stock guide. 3,675,462, 7-11-72, Cl. 72-428.000.
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- Poncet-Montange, Daniel: *See—*
- Kneller, Klaus; Poncet-Montange, Daniel; Prost, Jean-Louis; and Trub, Jean, 3,704,972.
- Ponchel, Basil M., to Aluminum Company of America. Thermal treating control. 3,645,804, 2-29-72, Cl. 148-128.
- Ponci, Riccardo: *See—*
- Vitali, Tullio; Scrivani, Pietro; Ponci, Riccardo; Pellegrini, Giovanni; Gialdi, Franco; and Arsura, Emilio, 3,657,263.
- Pond, Chester C.: *See—*
- Bobb, Lloyd J., 3,654,403.
- Pond, George R.: *See—*
- Rylander, Paul N.; Karpenko, Irene M.; and Pond, George R., 3,694,509.
- Pond, Robert B., to Atom Manufacturing Company. Take-apart fish hook or lure support. 3,646,700, 3-7-72, Cl. 43-42.74.
- Pond, Robert B., Sr., to United States Steel Corporation. Method of quenching metal filament in froth. 3,685,568, 8-22-72, Cl. 164-89.000.
- Pondelicek, William J.; and Schmidt, Vernon F., to Heick Die Casting Corporation. Method and apparatus for lubricating a closed die structure. 3,645,319, 2-29-72, Cl. 164-72.
- Ponder, Charles L. Nursing bottle. 3,704,803, 12-5-72, Cl. 215-11.00a.
- Pongracz, Lajos. Parking damage prevention. 3,692,139, 9-19-72, Cl. 180-94.000.
- Pons, Henry W. Hydrogenation of nitrobenzenes. 3,683,025, 8-8-72, Cl. 260-575.000.
- Ponsa, Carlos Sauret. Process to make cock and specifically water faucets. 3,686,733, 8-29-72, Cl. 29-157.10r.
- Ponsen, Catharinus M., 1/2 to Craig, Colin. Dock side cargo handling apparatus. 3,696,947, 10-10-72, Cl. 214-14.
- Ponsold, Kurt; and Grosse, Peter, to VEB Jenapharm. Halogen-aminocarbonyloxy compounds of the steroid series. 3,663,580, 5-16-72, Cl. 260-397.200.
- Pont, Dominique Etienne Louis, to Societe d'Etudes et de Developpement des Aeroglisateurs Marins Terrestres et Amphibies S.E.D.A.M. Fluid cushion machines. 3,661,110, 5-9-72, Cl. 114-66.5.
- Pontarelli, Donald E.: *See—*
- Appel, Arthur V.; Davis, John S.; and Pontarelli, Donald E., 3,694,285.
- Ponter, Robert J., to Ritter Engineering Company. Level means. 3,638,535, 2-1-72, Cl. 91-411.
- Pontigny, Jacques A., to Coulter Electronics, Inc. Method for preparing metered liquid sample dilutions. 3,649,218, 3-14-72, Cl. 23-309.
- Pontigny, Jacques A., to Coulter Electronics, Inc. Curve tracer. 3,700,992, 10-24-72, Cl. 318-568.000.
- Ponting, Ivor, to Electrical Remote Control Company Limited. Cam assembly. 3,678,780, 7-25-72, Cl. 74-568.00r.
- Pontius, Jon S.: *See—*
- Foreman, Robert W.; and Pontius, Jon S., 3,661,820.
- Ponzano, Gian Luigi, to Olivetti, Ing., C. & C., S.p.A. Serial printing device. 3,707,214, 12-26-72, Cl. 117-53.000.
- Ponziani, Louis F., to Chrysler Corporation. Heat exchanger fin. 3,631,922, 1-4-72, Cl. 165-151.
- Ponzini, Sandro; Castelli, Paolo; and Lewendel, Jean Stanislaw, to Aziende Colori Nazionali Affini ACNA S.p.A. Quaternized reactive anthraquinone dyestuffs containing triazine and nicotinic acid groups. 3,639,398, 2-1-72, Cl. 260-249.
- Ponzini, Sandro; Castelli, Paolo; and Stanislaw, Jean Lawendel, to Aziende Colori Nazionali Affini Acna S.p.A. Quaternized reactive phthalocyanine dyestuffs containing triazine and nicotinic acid groups. 3,642,787, 2-15-72, Cl. 260-242.
- Ponzoni, George B.: *See—*
- Einstman, William J.; Ponzoni, George B.; and Leonard, Richard J., 3,706,572.
- Ponzoni, George Bernard; Protomastro, Michael Gabriel; and Stefanucci, Arthur, to General Foods Corporation. Roasting of non-equally moisturized coffees. 3,634,094, 1-11-72, Cl. 99-68.
- Pook, Karl-Heinz: *See—*
- Weber, Karl-Heinz; Bauer, Adolf; Danneberg, Peter; Minek, Klaus; and Pook, Karl-Heinz, 3,707,538.
- Pool, Clarence. Light with universally mounted axis for body panels and the like. 3,679,890, 7-25-72, Cl. 240-41.600.
- Pool, Danny J.: *See—*
- Lentz, Albert P.; and Pool, Danny J., 3,638,515.
- Pool, Eldert B.: *See—*
- Bake, Earl A.; Pool, Eldert B.; Hankosky, Andrew; Milleville, Bertram J.; and Fowler, John Hyde, 3,685,536.
- Pool, Horace E. Orthodontic separating spring. 3,664,023, 5-23-72, Cl. 32-14.
- Pool, James Leland, to Lisle Corporation. Reversible pliers. 3,681,840, 8-8-72, Cl. 29-229.000.
- Pool, Joseph Harbit. Methods of and apparatus for reducing resistant to the hull of a vessel. 3,690,283, 9-12-72, Cl. 114-67.00a.
- Pool, Morris F.: *See—*

- Kaufman, Vern F.; Klose, Alvin A.; and Pool, Morris F., 3,694,856.
- Pool, Richard L.: See—
Krengel, Theodore H.; and Pool, Richard L., 3,673,980.
- Pool, Samuel T. Sliding sinker bait cartridge. 3,643,368, 2-22-72, Cl. 43-41.2.
- Pool, Samuel T. Trot line caster. 3,703,783, 11-28-72, Cl. 43-54.50a.
- Pool, Stuart D.; and Meitl, Harold G., to International Harvester Company. Fruit and nut windrower. 3,667,200, 6-6-72, Cl. 56-328.00r.
- Poola, Jagadeesan V., to PPG Industries, Inc. Method and apparatus for making glass windshields. 3,639,112, 2-1-72, Cl. 65-29.
- Poole, Burnet M.: See—
Chupity, Joseph; and Poole, Burnet M., 3,651,278.
- Poole, John W.: See—
Hou, Joseph P.; and Poole, John W., 3,704,290.
- Poole, John W., to American Home Products Corporation. Sustained action dosage form. 3,634,584, 1-11-72, Cl. 424-21.
- Poole, John W.; Thorpe, Merle L.; and Vogel, Charles E., to Humphreys Corporation. High pressure thermal plasma system. 3,694,618, 9-26-72, Cl. 219-121.00p.
- Poole, Kenneth: See—
Hodges, Roy Kenneth, 3,643,274.
- Poole, Richard R.; and Bulkley, David D., to Itronics, Inc. Infrared temperature sensor and control for use with heated, moving bodies. 3,653,263, 4-4-72, Cl. 73-351.
- Poole, Sidney W.: See—
Ries, Gerald D.; and Poole, Sidney W., 3,640,690.
- Poole, Thomas A.: See—
Laplante, Jerry C.; and Poole, Thomas A., 3,667,942.
- Poole, Victor David, to Imperial Chemical Industries Limited. Phthalocyanine dyestuffs. 3,651,058, 3-21-72, Cl. 260-242.
- Pools, Anthony, Inc.: See—
Ortega, Robert; and Sable, Chester A., 3,653,513.
- Poon, Yull Gunn. Structure for housing animals. 3,662,714, 5-16-72, Cl. 119-18.000.
- Poore, Ernest C.; and Goforth, John A., Jr., to Midwestern Specialties Ltd. Pipe handling apparatus. 3,690,472, 9-12-72, Cl. 214-1.00p.
- Poore, Ernest C.: See—
Stanley, Richard C.; Thatcher, Charles R.; and Poore, Ernest C., 3,687,706.
- Poore, Wesley A.: See—
Rockwell, Harvey W.; and Poore, Wesley A., 3,653,450.
- Poot, Albert Lucien: See—
Laridon, Urbain Leopold; Delzenne, Gerard Albert; Poot, Albert Lucien; and Peeters, Hogo Karel, 3,682,642.
- Noe, Robert Joseph; Willems, Jozef Frans; Poot, Albert Lucien; and Verhille, Karel Eugene, 3,634,080.
- Noe, Robert Joseph; Willems, Jozef Frans; Poot, Albert Lucien; and Verhille, Karel Eugene, 3,692,522.
- Van Besauw, Jan Frans; and Poot, Albert Lucien, 3,682,635.
- Vanheertum, Johannes Joseph; Poot, Albert Lucien; Willems, Jozef Frans; and Janssens, Wilhelmus, 3,660,084.
- Poot, Albert Lucien; and Delzenne, Gerard Albert, to Gevaert-Agfa N.V. Unsaturated photochromic indolino-spiropyran monomers and polymers prepared therefrom. 3,642,484, 2-15-72, Cl. 96-90.
- Poot, Albert Lucien, to Gevaert-Agfa N.V. Stabilization of photographic spiropyran compounds. 3,660,094, 5-2-72, Cl. 96-48.
- Poot, Albert Lucien; Van Besauw, Jan Frans; and Depoorter, Henri, to Agfa-Gevaert. Diazotype recording process and material used therein. 3,676,133, 7-11-72, Cl. 96-49.000.
- Poot, Albert Lucien; and Depoorter, Henri, to Agfa-Gevaert. Formation of dyes suited for reproduction purposes. 3,676,138, 7-11-72, Cl. 96-75.000.
- Poot, Albert Lucien; and Depoorter, Henri, to Agfa-Gevaert. Diazo recording. 3,676,140, 7-11-72, Cl. 96-91.000.
- Poot, Albert Lucien, to Agfa-Gevaert N.V. Production of coloured colloid patterns. 3,681,074, 8-1-72, Cl. 96-35.000.
- Poot, Simon, to N.V. Verenigde Instrumentenfabrieken Enraf-Nonius. Goniometric apparatus for an X-ray diffractometer. 3,636,347, 1-18-72, Cl. 250-51.5.
- Popadick, Carl C.; and Talento, Joseph L., to General Electric Company. Method of making an electrode having a refractory metal arcing portion. 3,657,799, 4-25-72, Cl. 29-25.17.
- Pope & Talbot, Inc.: See—
Peters, Thomas E., 3,649,397.
- Pope, Anthony Gerald: See—
Barker, Geoffrey Cecil; Gardner, Arthur William; and Pope, Anthony Gerald, 3,644,824.
- Pope, George A.; Vaughan, George; and Wilson, Paul I., to Dunlop Company Limited. The Block copolymers comprising an N-phenyl maleimide and either a diolefin or cyclic oxide. 3,632,681, 1-4-72, Cl. 260-879.
- Pope, George A.; Hale, Peter T.; and Bird, David A., to Dunlop Company Limited. The Block copolymers containing a polyethylene sulfide block. 3,646,167, 2-29-72, Cl. 260-879.
- Pope, George F., to Diversified Manufacturing and Marketing Co., Inc. Apparatus for forming holes in and installing lines in structural members. 3,697,188, 10-10-72, Cl. 408-230.000.
- Pope, Hermon L., Jr.: See—
Brennan, James, Jr.; Pope, Hermon L., Jr.; and Boren, Donald F., 3,638,197.
- Pope, Joseph Albert: See—
van-der-Ben, Charles Robert; and Pope, Joseph Albert, 3,674,576.
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- Pope, Kenneth E., to Cas, Inc., mesne. Apparatus for controlling tape speed. 3,665,438, 5-23-72, Cl. 340-174.1.
- Pope, Kenneth W., to Du Pont of Canada Limited, mesne. Prefabricated building panel. 3,646,715, 3-7-72, Cl. 52-309.
- Pope Manufacturing, Inc.: See—
Pope, Melkilah E., 3,702,035.
- Pope, Melkilah E., to Pope Manufacturing, Inc. Fish lure. 3,702,035, 11-7-72, Cl. 43-42.350.
- Pope, Noel C.; Kempis, Edward B.; and O'Donovan, Kevin H. J., to Adamant Laboratories (Proprietary) Limited. High-pressure device. 3,642,412, 2-15-72, Cl. 425-356.
- Pope, Raymond C.: See—
Conrad, Lugas J.; and Pope, Raymond C., 3,670,882.
- Pope, Victor James: See—
Preston, Leslie Raymond; Pope, Victor James; Stagg, John; and Green, Ronald Sydney, 3,681,177.
- Popeil Brothers, Inc.: See—
Popeil, Samuel J.; and Popeil, Raymond, 3,651,529.
- Popeil, Samuel J., 3,699,603.
- Popeil, Raymond: See—
Popeil, Samuel J.; and Popeil, Raymond, 3,651,529.
- Popeil, Samuel J.; and Popeil, Raymond, to Popeil Brothers, Inc. Cleaning brush. 3,651,529, 3-28-72, Cl. 15-4.
- Popeil, Samuel J., to Popeil Brothers, Inc. Wringer mop. 3,699,603, 10-24-72, Cl. 15-120.00r.
- Popek, Stephen: See—
Englund, James A.; and Popek, Stephen, 3,678,641.
- Popek, Wencil D.: See—
McAllister, Lewis L.; and Popek, Wencil D., 3,668,750.
- Popelak, Alfred; Lerch, Ansgar; Stach, Kurt; Roesch, Egon; and Hardebeck, Klaus, to Boehringer Mannheim GmbH. 5-Phenyl-tetrazole derivatives. 3,665,002, 5-23-72, Cl. 260-239.9.
- Popescu, Elena Lygia: See—
Bucur, Victor; Filotti, Traian Mircea; Georgescu, Eugenia; Mazare, Theodora; Ghejan, Ion; Zirna, Ion; Popescu, Elena Lygia; and Ioszt, Toma, 3,657,153.
- Georgescu, Eugenia; Ghejan, Ion; Bucur, Victor; Mazare, Theodora; Zirna, Ion; Popescu, Elena Lygia; Budu, Adrian; Olteanu, Bujor; Filotti, Traian Mircea; and Barbul, Marius Aurel, 3,707,509.
- Popescu, Elena-Lygia: See—
Georgescu, Eugenia; Ghejan, Ion; Bugur, Victor; Zirna, Ion; Mazare, Theodora; Popescu, Elena-Lygia; Olteanu, Bujor; Mareulescu, Nicolae; Filotti, Traian-Mircea; Barbul, Marius-Aurel; and Calin, Ion, 3,673,109.
- Popham, Orville G. Paper towel rack. 3,706,421, 12-19-72, Cl. 242-55.200.
- Popielas, Maciej: See—
Borkowski, Wieslaw K.; Pluta, Maksymilian; and Popielas, Maciej, 3,652,163.
- Popik, John: See—
Vail, Evelyn W.; and Popik, John, 3,660,811.
- Popinski, Leonard G., to Nedlog Company, The. Automatic liquid proportioner. 3,643,835, 2-22-72, Cl. 222-56.
- Popivalo, Andrew C. Measuring and dispensing container. 3,669,322, 6-13-72, Cl. 222-454.000.
- Popken, Gary D.: See—
Lewis, Ralph M.; Lewis, Charles T., Jr.; Tupper, George B.; and Popken, Gary D., 3,652,708.
- Popkov, Eduard Jurievich: See—
Kuznetsov, Lev Vasilievich; Slavinsky, Zunya Mikhailovich; Kalachev, Vasily Alexeevich; Krupin, Alexandr Leonidovich; Aristarkhov, Nikolai Alexandrovich; Popkov, Eduard Jurievich; Trutnev, Vladimir Alexandrovich; and Bulychev, Nikolai Petrovich, 3,704,496.
- Popkov, Ivan Nikolaevich: See—
Krylov, Vsevolod Semenovich; Popkov, Ivan Nikolaevich; Magunov, Robert Leonidovich; Puring, Mikhail Nikolaevich; Bagdasarov, Khachatur Saakovich; Tsagina, Raisa Fedorovna; and Popov, Viktor Innokentievich, 3,667,901.
- Poplat, Gerhard: See—
Scharf, Hans; Poplat, Gerhard; and Steinberg, Eckhard, 3,657,793.
- Poplavko-Mikhailov, Mikhail Vasilievich: See—
Potak, Yakov Mikhailovich; Orzhekhovskiy, Julian Felixovich; Sachkov, Vladimir Vladimirovich; Kagan, Efim Solomonovich; Valdman, Anna Ivanovna; Shpagina, Nadezhda Nikolaevna; Poplavko-Mikhailov, Mikhail Vasilievich; Fomin, Alexandr Pavlovich; and Natapov, Smon Leibovich, 3,690,869.

- Poplawski, Eugene M., to Caterpillar Tractor Company. Air-over hydraulic brake system. 3,650,568, 3-21-72, Cl. 303-2.
- Poplawski, Joel J.: See—
Bardos, John J.; and Poplawski, Joel J., 3,699,679.
- Popoff, Ivan C.: See—
Yochum, Daniel William; Haines, Paul Gordon; and Popoff, Ivan C., 3,674,701.
- Popoff, Ivan C.; and Williams, Kenneth I. H., to Pennwalt Corporation. Dinitrophenylcarbamates. 3,679,736, 7-25-72, Cl. 260-479.00c.
- Popov, Boris Vasilievich: See—
Zhukov, Gennady Konstantinovich; Krylov, Nikolai Ivanovich; Lebedev, Vyacheslav Ivanovich; Popov, Boris Vasilievich; Slonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Vasilenko, Sergei Iosifovich; Kondratiev, Valentin Vasilievich; and Krokhin, Neste Ivanovich, 3,633,397.
- Popov, Boris Vasilievich; Slonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Zhukov, Gennady Konstantinovich; and Zhokhova, Olga Samuilovna. Straightening machine for pipe-like articles. 3,672,197, 6-27-72, Cl. 72-79.000.
- Popov, Lev Mikhailovich: See—
Lapkin, Konstantin Vasilievich; Romanov, Georgy Fedorovich; Goloviznin, Vladimir Ilich; and Popov, Lev Mikhailovich, 3,667,474.
- Popov, Nikolai Ivanovich: See—
Timofeev, Mikhail Mikhailovich; Sokolov, Vladimir Leonidovich; German, Samuil Iosifovich; Levenberg, Ninel Efimovna; and Popov, Nikolai Ivanovich, 3,644,144.
- Popov, Viktor Innokentievich: See—
Krylov, Vsevolod Semenovich; Popkov, Ivan Nikolaevich; Magunov, Robert Leonidovich; Puring, Mikhail Nikolaevich; Bagdasarov, Khachatur Saakovich; Tsagina, Raisa Fedorovna; and Popov, Viktor Innokentievich, 3,667,901.
- Popov, Vyacheslav Sergeevich: See—
Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pyanov, Valentin Nikiforovich; Golovkin, Jury Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.
- Popova, Valentina Nikolaevna: See—
Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Idelevich; Zhabin, Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhekhin, Vladimir Petrovich; Rubnikov, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Ussyaslav Iosifovich; Sharipova, Ravia Davlyatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorovich, 3,654,325.
- Popovitsch, Ernst, to Feinmaschinenbau, Nagele, Karl F., Dr. Method of manufacturing a continuous stringer for a sliding clasp fastener. 3,666,853, 5-30-72, Cl. 264-281.
- Popowitz, Dolores E.: See—
Kreevoy, Maurice M.; and Popowitz, Dolores E., 3,649,298.
- Popp, Jurgen; Jakob, Franz; and Mobius, Heinzhorst, to Hystron Fibers Incorporated. Sulfo-modified polyesters and shaped structures made therefrom. 3,634,541, 1-11-72, Cl. 260-75.
- Popp, Ralph, to Westinghouse Air Brake Company. Overvoltage protection arrangement for power converters. 3,678,368, 7-18-72, Cl. 321-11.000.
- Popp, Walter: See—
Bauer, Johann; Hollenbach, Georg; Popp, Walter; and Sabel, Alex, 3,642,948.
- Popp, William R., to Westinghouse Air Brake Company. Fail-safe time delay relay. 3,694,702, 9-26-72, Cl. 317-141.00s.
- Poppe, Wassily: See—
Khelghatian, Habet M.; and Poppe, Wassily, 3,663,377.
- Khelghatian, Habet M.; and Poppe, Wassily, 3,674,536.
- Khelghatian, Habet M.; and Poppe, Wassily, 3,682,693.
- Khelghatian, Habet M.; Poppe, Wassily; and West, Harry J., 3,682,695.
- Poppe, Wassily; and Khelghatian, Habet M., to Avisun Corporation. Coated polyolefin article. 3,632,393, 1-4-72, Cl. 117-72.
- Poppe, Wassily; Khelghatian, Habet M.; and Fitzpatrick, James E., to Standard Oil Company. Platable polymers. 3,655,433, 4-11-72, Cl. 117-138.8.
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- Poppe, Wassily; and Khelghatian, Habet M., to Standard Oil Company. Contact angle measurement of plastic surfaces. 3,696,665, 10-10-72, Cl. 73-104.000.
- Poppe, Wassily W.: See—
Khelghatian, Habet M.; Poppe, Wassily W.; and Fitzpatrick, James E., 3,649,476.
- Poppendieck, Werner. Constant speed telephone dial return mechanism. 3,659,057, 4-25-72, Cl. 179-90.
- Popper, Felix B.; and Levesque, Albert H., to Grace, W. R., & Co. Production of metal chelates. 3,644,444, 2-22-72, Cl. 260-429.
- Popper, Jakhin Boaz, to Israel Ministry of Defence, The State of. Delayed arming device for the proximity fuse of a bomb. 3,653,325, 4-4-72, Cl. 102-70.2.
- Popper, Jay D., to General Instrument Corporation. Self-biasing inverter. 3,678,293, 7-18-72, Cl. 307-214.000.
- Popper, Thomas L., to Schering Corporation. Androsteno-2', 5'-dimethyl-5'-alkyl-1'-pyrrolines, methods for their manufacture, and novel 16 alpha-(1'-amino-1-alkylethyl)-pregnene intermediates produced thereby. 3,684,799, 8-15-72, Cl. 260-239.500.
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- Poppi, Mauro. Muffle kiln for the firing of glazed ceramic tiles. 3,637,199, 1-25-72, Cl. 263-28.
- Poppl, Max: See—
Bleibtreu, Alexander; Schunda, Anton; and Poppl, Max, 3,632,908.
- Popplewell, Alan Francis: See—
Howard, Donald Kearey; Thomas, Brian Martin; Popplewell, Alan Francis; and Matossi, Dario, 3,691,033.
- Popplewell, James M.: See—
Pryor, Michael J.; and Popplewell, James M., 3,676,292.
- Poppy, Dwight J., to Zenith Radio Corporation. Automatic brightness limiter. 3,637,923, 1-25-72, Cl. 178-95.4.
- Pops, Horace, to United States Steel Corporation. Method of making a dispersion-hardened ferrous alloy. 3,667,932, 6-6-72, Cl. 75-5bc.
- Popular Science Publishing Company, Inc.: See—
Hawkins, William J., 3,634,880.
- Pora, Nicholas: See—
Palyi, Leslie, 3,643,879.
- Poran, Howard A.: See—
Johnson, Peter D.; and Poran, Howard A., 3,659,138.
- Porat, David: See—
Hinden, Milton; and Porat, David, 3,701,878.
- Porath, Jerker Olof: See—
Axen, Rolf E. A. V.; Porath, Jerker Olof; and Ernbach, Erik Sverker, 3,645,852.
- Porepp, Bernd. Apparatus for forming a plastic article. 3,672,805, 6-27-72, Cl. 425-391.000.
- Porepp, Hans. Slide fastener. 3,667,089, 6-6-72, Cl. 24-205.13c.
- Porges, Karl G.: See—
Rudnick, Stanley J.; Michaud, Paul L.; and Porges, Karl G., 3,646,330.
- Pori, Inc.: See—
Kovacs, Geza L., 3,682,592.
- Porner, Horst; Schabert, Hans-Peter; and Weber, Robert, to Siemens Aktiengesellschaft. Sealing ring. 3,690,685, 9-12-72, Cl. 277-235.00a.
- Porous Plastics Limited: See—
Cunningham, Victor Ralph; and Dodson, Thomas Stanley, 3,696,180.
- Porret, Daniel: See—
Batzer, Hans; Nikles, Erwin; Ernst, Otto; and Porret, Daniel, 3,682,969.
- Fatzer, Willy; Porret, Daniel; and Maurer, Juerg, 3,651,062.
- Habermeier, Juergen; Porret, Daniel; and Seiz, Wolfgang, 3,644,365.
- Habermeier, Juergen; Batzer, Hans; Porret, Daniel; and Kunz, Walter, 3,654,191.
- Habermeier, Juergen; Batzer, Hans; and Porret, Daniel, 3,679,681.
- Habermeier, Juergen; Batzer, Hans; and Porret, Daniel, 3,686,174.
- Porret, Daniel; Habermeier, Juergen; Seiz, Wolfgang; and Fatze, Willy, to Ciba Limited. Curable molding compositions comprising a polyepoxide and a hydantoin. 3,635,844, 1-18-72, Cl. 260-2.
- Porret, Daniel; Habermeier, Juergen; and Seiz, Wolfgang, to Ciba Limited. Curable compositions of matter containing a polyepoxide and a hydantoin compound. 3,635,845, 1-18-72, Cl. 260-2.
- Porret, Daniel; Habermeier, Juergen; and Batzer, Hans, to Ciba Limited. Advanced addition products containing terminal epoxide groups. 3,640,910, 2-8-72, Cl. 260-2.
- Porret, Daniel; and Habermeier, Juergen, to Ciba-Geigy AG. Bis-(1- α -aminopropyl-hydantoinyl-3)-alkanes. 3,697,539, 10-10-72, Cl. 260-309.500.
- Porrman, Herbert: See—
Andra, Klaus; Porrman, Herbert; and Hutschenreuter, Elfriede, 3,639,146.
- Klenk, Ludwig; Kaempgen, Dieter; Kersting, Rolf; and Porrman, Herbert, 3,687,772.
- Porro, Giovanni: See—
Moerkens, Jozef Cornelis; and Porro, Giovanni, 3,657,597.
- Porsche, Dr.-Ing. H.c.F., K.G. Firma: See—
Porsche, Ferdinand Alexander; and Bauer, Theodor, 3,658,357.
- Porsche, Dr.-Ing. H.c.F., K.G., Firma: See—
Austen, Jorg, 3,688,883.

Bauer, Theodor, 3,635,488.
 Chabek, Kurt Herwig, 3,652,104.
 Eger, Georg, 3,635,518.
 Eyb, Wolfgang; and Klosterhuber, Robert, 3,680,654.
 Eyb, Wolfgang, 3,692,051.
 Gorissen, Wolfhelm, 3,652,911.
 Gortz, Gunther, 3,633,716.
 Grewing, Klaus; and Hacker, Fritz, 3,699,842.
 Hensler, Paul, 3,678,912.
 Hetmann, Richard; Stotz, Erich; Asel, Ludwig; and Arnold, Karl, 3,635,303.
 Kaminstein, Bernard; and Rattin, Luciano, 3,682,095.
 Piech, Ferdinand, 3,707,092.
 Piech, Ferdinand K.; and Mezger, Hans, 3,682,018.
 Piech, Ferdinand V., 3,704,636.
 Porsche, Ferdinand Alexander; and Bauer, Theodor, 3,635,487.
 Porsche, Ferdinand Alexander, 3,635,489.
 Porsche, Ferdinand Alexander; and Bauer, Theodor, 3,635,497.
 Porsche, Ferdinand Anton Ernst; and Srock, Rainer, 3,647,258.
 Porsche, Ferdinand Anton Ernst; and Porsche, Ferdinand Alexander, 3,659,901.
 Strehler, Erich; Kaumle, Fritz; and Rolf, Stuttgart, 3,686,971.
 Porsche, Ferdinand Alexander: *See—*
 Porsche, Ferdinand Anton Ernst; and Porsche, Ferdinand Alexander, 3,659,901.
 Porsche, Ferdinand Alexander; and Bauer, Theodor, to Porsche, Dr.-Ing., H.C.F., K.G., Firma. Steering mechanism for a one-track slide vehicle. 3,635,487, 1-18-72, Cl. 280-16.
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 Porsche, Ferdinand Alexander; and Bauer, Theodor, to Porsche, Dr.-Ing., H.C.F., K.G., Firma. Steering runner of a one-track sliding vehicle. 3,635,497, 1-18-72, Cl. 280-16.
 Porsche, Ferdinand Alexander; and Bauer, Theodor, to Porsche, Dr.-Ing., H.C.F., Firma. Sliding vehicle. 3,658,357, 4-25-72, Cl. 280-16.
 Porsche, Ferdinand Anton Ernst; and Srock, Rainer, to Porsche, Dr.-Ing., H.C.F., K.G., Firma. Passenger car with a roll yoke. 3,647,258, 3-7-72, Cl. 296-102.
 Porsche, Ferdinand Anton Ernst; and Porsche, Ferdinand Alexander, to Porsche, Dr.-Ing., H.C.F., K.G., Firma. Wheel for automotive vehicles. 3,659,901, 5-2-72, Cl. 301-65.
 Porst, Peter, to VEB Feuerloschgeratwerk Neuruppin. Method of stabilizing bromine-containing fire extinguishing halogenated hydrocarbon composition. 3,657,120, 4-18-72, Cl. 252-8.
 Port Autonome de Dunkerque: *See—*
 De Demandolx Dedons, Pierre; Giroud, Gerard; and Delaunay, Daniel, 3,704,796.
 Port, Eugene B.: *See—*
 Howard, Carlton J.; and Port, Eugene B., 3,634,999.
 Port, Eugene B.; and Howard, Carlton J., to Allied Chemical Corporation. Crystallization process. 3,653,848, 4-4-72, Cl. 23-302.
 Port, Morton I., to Avison Corporation, mesne. Method for making a multi-colored split polyolefin yarn. 3,639,573, 2-1-72, Cl. 264-75.
 Port-A-Stall: *See—*
 Hero, Richard A., 3,699,924.
 Porta, Della Paolo; Giorgi, Tiziano A.; Kindl, Bruno; and Zucchinelli, Mario, to S.A.E.S. Getters S.p.A. Electrical capacitor. 3,654,533, 4-4-72, Cl. 317-258.
 Porta, Paolo Della; and Rabusin, Elio, to S.A.E.S. Getters S.p.A. Gettering. 3,669,567, 6-13-72, Cl. 417-48.000.
 Porta Service Inc.: *See—*
 Cable, Russell D.; and Brenneman, Homer K., 3,685,535.
 Porta Systems Corporation: *See—*
 De Luca, Paul V., 3,700,824.
 Porta-Horse, Inc., mesne: *See—*
 Greenman, James R.; and Lane, Thomas E., Jr., 3,631,941.
 Porta-Test Manufacturing Ltd.: *See—*
 Willis, Robin Burke, 3,693,329.
 Portage Machine Company, mesne: *See—*
 Reeves, Harold C., 3,679,220.
 Portage Research & Development Corporation: *See—*
 Krivis, Alan F., 3,676,072.
 Portain Poelain Materiel: *See—*
 Cheze, Bernard J., 3,670,465.
 Portal, Pierre, to S.A. Forges de Bologne. Method of and apparatus for forming parts with re-entrant surfaces. 3,680,381, 8-1-72, Cl. 72-354.000.
 Porte, Gilbert R. A.: *See—*
 Alric, Andre A. L.; Porte, Gilbert R. A.; Glotin, Joseph M. H.; Higounenq, Francis J.; and Boussin, Serge P., 3,703,675.
 Portec, Inc.: *See—*
 Anderson, Robert L.; and Fromm, Marvin M., 3,662,199.
 Berry, Gordon, 3,705,994.
 Broiling, Keith W.; and Tatina, Richard A., 3,650,222.
 Carangi, Remo N., 3,658,012.
 Hamilton, William R., Jr., 3,698,634.
 Trudeau, Francis E., 3,665,704.
 Portelli, Mario: *See—*
 Della Bella, Davide; Portelli, Mario; and Renzi, Giorgio, 3,691,229.

Porteous, Andrew, to National Research Development Corporation. Method of and apparatus for the multi-flash distillation of liquids. 3,697,382, 10-10-72, Cl. 202-173.000.
 Porter, Alan S.; and Whyte, David Thomas Kerr, to Electric Reduction Company of Canada Ltd. Method of removing beer stone, milk stone and railway carriage encrustations using a diphosphonic acid. 3,634,257, 1-11-72, Cl. 252-87.
 Porter, Allan W. H. Process and apparatus for storing weft yarn in looms. 3,680,600, 8-1-72, Cl. 139-122.00r.
 Porter, Allan William Henry, to Saurer, Adolph, Ltd. Weft thread inserting method and apparatus. 3,662,786, 5-16-72, Cl. 139-125.000.
 Porter, Allan William Henry, to Saurer, Adolph, Ltd. Braking shuttles in loom shuttle box. 3,670,775, 6-20-72, Cl. 139-185.000.
 Porter, Allan William Henry, to Saurer, Adolph, Ltd. Method for shedding in weaving machines and device for performing the method. 3,685,550, 8-22-72, Cl. 139-55.000.
 Porter, Andrew W.; and Sanders, John L., to Canadian Patents and Development Limited. Veneer machine roller pressure bar assembly. 3,670,790, 6-20-72, Cl. 144-213.000.
 Porter, Bobby J.: *See—*
 McLain, John H.; and Porter, Bobby J., 3,704,165.
 Porter, C. O. Machinery Company: *See—*
 Greenley, Henry R.; and Craig, William E. (said Greenley assor. to), 3,706,072.
 Porter, Curt C., to Merck & Co., Inc. Method of inhibiting dopamine β -hydroxylase. 3,701,831, 10-31-72, Cl. 424-251.000.
 Porter, Curt C., to Merck & Co., Inc. Method of inhibiting dopamine β hydroxylase. 3,701,832, 10-31-72, Cl. 424-273.000.
 Porter, David H.; and Biscoe, Thomas S., to Thomas Industries Inc. Lighting fixture support. 3,678,265, 7-18-72, Cl. 240-84.000.
 Porter, Donald E.; and Paulus, Ray A. Orchard heating unit. 3,645,250, 2-29-72, Cl. 126-59.5.
 Porter, Donald E.; and Burkholder, Jack, to Water and Gas Plastics Products. Plastic valve. 3,674,235, 7-4-72, Cl. 251-162.000.
 Porter, Doris Lydia May: *See—*
 Porter, Ernest Henry Roberts, 3,659,518.
 Porter, Edward B., Sr., to Ross Operating Valve Company. Indexing fluid control device. 3,635,250, 1-18-72, Cl. 137-625.63.
 Porter, Erland C., Jr.: *See—*
 Schleicher, Lowell; Miller, Robert E.; and Porter, Erland C., Jr., 3,697,371.
 Porter, Ernest Henry Roberts: *See—*
 Porter, Ernest Henry Roberts, 3,659,518.
 Porter, Ernest Henry Roberts, to Porter, Ernest Henry Roberts and Porter, Doris Lydia May. Heating apparatus. 3,659,518, 5-2-72, Cl. 99-386.
 Porter, Frank K., Jr.; and Sonjara, Boris, to United States of America, Army. Elapsed time indicator. 3,706,865, 12-19-72, Cl. 200-83.00t.
 Porter, H. K., Company, Inc.: *See—*
 Weston, Donald E.; and Kupetis, Raymond F., 3,673,426.
 Porter, Harry B.; and Weinhardt, Robert A., to United States of America, Navy. Release mechanism. 3,640,484, 2-8-72, Cl. 244-321.
 Porter, Herschel D., to Lilly, Eli, and Company. 2,4-Di-(4-aryl-piperazino)-3-pentanones for treating schistosomiasis. 3,639,602, 2-1-72, Cl. 424-250.
 Porter, Herschel D., to Lilly, Eli, and Company. 2,4-Di-(4-aryl-piperazino)-3-pentanones for treating schistosomiasis. 3,655,666, 4-11-72, Cl. 260-268.
 Porter, Herschel D.; and Taylor, Harold M., to Lilly, Eli, and Company. Methods of treating helminth infections with thiourea derivatives. 3,659,012, 4-25-72, Cl. 424-322.
 Porter, Herschel D., to Lilly, Eli, and Company. Substituted dispiropentadecanes. 3,669,986, 6-13-72, Cl. 260-326.50d.
 Porter, Ian S., to Wilson & Longbottom Limited. Picking mechanism for looms for weaving. 3,665,970, 5-30-72, Cl. 139-20.
 Porter, Ian S., to Wilson & Longbottom Limited. Gripper shuttles for looms for weaving. 3,669,156, 6-13-72, Cl. 139-125.
 Porter, Irwin C.; Barcus, Jack L.; Bear, David L.; and Marshall, James E., to Mattel, Inc. Doll having time indicating means and record player co-ordinated therewith. 3,636,655, 1-25-72, Cl. 46-117.
 Porter, John David: *See—*
 Griggs, Ernest Lee, Jr.; and Porter, John David, 3,679,153.
 Porter, John H., to Ladd Research Industries, Inc. Electric-pneumatic junction. 3,649,948, 3-14-72, Cl. 339-16.
 Porter, John H.; and Murray, David B., to Ladd Research Industries, Inc. Fiber optic pressure detector. 3,686,958, 8-29-72, Cl. 73-406.000.
 Porter, John Halsted; and Ladd, William Alexander, to Ladd Research Industries, Inc. Tilting variable speed rotary shadower. 3,663,273, 5-16-72, Cl. 117-107.1.
 Porter, John Howard: *See—*
 Moore, Arthur Ivan Walter; Porter, John Howard; Vearncombe, Richard Frank; and Reiher, Edward Karl, 3,670,380.
 Porter, John Norman: *See—*
 Kunstmann, Martin Paul; and Porter, John Norman, 3,700,768.
 Martin, John Henry Edward James; and Porter, John Norman, 3,700,769.

McGahren, William James; Porter, John Norman; and Korshalla, Joseph Daniel, 3,647,776.
 Porter, John P.: *See—*
 Karper, Paul W.; and Porter, John P., 3,688,568.
 Karper, Paul W.; and Porter, John P., 3,693,421.
 Porter, John W.: *See—*
 Otterbach, Dieter H.; and Porter, John W., 3,660,477.
 Porter, Joseph W.: *See—*
 Barkan, Philip; and Porter, Joseph W., 3,646,292.
 Horn, Fordyce H.; Porter, Joseph W.; and Talento, Joseph L., 3,663,775.
 Porter, Kenneth; and Richardson, Brian, to Imperial Chemical Industries Limited. Polycondensation in poly(tetrafluoroethylene) reactor. 3,674,744, 7-4-72, Cl. 260-75.00m.
 Porter, Kenneth E.; Ellis, Stephen R. M.; Ashton, Neil; and Hands, Clifford H. G., to Albright & Wilson Limited. Distillation apparatus. 3,687,818, 8-29-72, Cl. 202-158.000.
 Porter, Kenneth R.: *See—*
 Brown, Gordon M.; and Porter, Kenneth R., 3,644,047.
 Porter, Laurence W., to Vaughan & Bushnell Mfg. Co. Hammerhead having an anti-slip and wear-resistant striking face surface. 3,640,324, 2-8-72, Cl. 145-29.
 Porter, Lawrence C.; and Graves, Kenneth E., to Upjohn Company, The. Apparatus for producing isotropic foamed stock. 3,702,747, 11-14-72, Cl. 425-4.000.
 Porter, Lawrence Christie, to Upjohn Company, The. Apparatus for producing isotropic foamed synthetic resin stock. 3,655,311, 4-11-72, Cl. 18-5.
 Porter, Lew F.: *See—*
 Dabkowski, Donald S.; and Porter, Lew F., 3,692,591.
 Porter, Maurice Read: *See—*
 Baker, Crispin Stuart Leworthy; Barnard, Douglas; and Porter, Maurice Read, 3,645,980.
 Porter, Oswald M.: *See—*
 Herr, John A.; and Porter, Oswald M., 3,676,928.
 Porter, P. L., Co.: *See—*
 Porter, Percy L., 3,659,684.
 Porter Pain Co., mesne: *See—*
 Davie, William R., 3,676,388.
 Porter, Percy L., to Porter, P. L., Co. Hydraulic lock refill valve. 3,659,684, 5-2-72, Cl. 188-322.
 Porter, Philip J., to General Motors Corporation. Bulb outage indicator for multi-lamp circuits. 3,668,678, 6-6-72, Cl. 340-251.000.
 Porter, Ralph Frederick; Schwan, Judith A.; and Gates, John W., Jr., to Eastman Kodak Company. 2-Tetrazolythiohydroquinones. 3,639,417, 2-1-72, Cl. 260-308.
 Porter, Richard C.: *See—*
 McCune, Ray F.; and Porter, Richard C., 3,695,906.
 Porter, Richard E.: *See—*
 Sarbach, Ronald A.; and Porter, Richard E., 3,633,026.
 Porter, Robert B.: *See—*
 Johnson, Robert W.; and Porter, Robert B., 3,668,943.
 Taylor, Lawrence B.; Bentz, Raymond L.; and Porter, Robert B., 3,706,535.
 Porter, Robert B.; Ardelt, Clarence A.; and Storck, Robert C., to International Harvester Company. Tractor inching control utilizing a decelerator. 3,700,081, 10-24-72, Cl. 192-070.
 Porter, Roy A., to Bell Telephone Laboratories, Incorporated. Removal of boron and phosphorus-containing glasses from silicon surfaces. 3,669,775, 6-13-72, Cl. 156-17.000.
 Porter, Roy Arlie, to Bell Telephone Laboratories, Incorporated. Technique for masking silicon nitride during phosphoric acid etching. 3,657,030, 4-18-72, Cl. 156-13.
 Porter, Roy Donald, to Eastman Kodak Company. Method and apparatus for processing photographic film. 3,677,163, 7-18-72, Cl. 95-90.500.
 Porter, Samuel, Jr.: *See—*
 Makhlof, Joseph M.; and Porter, Samuel, Jr., 3,686,111.
 Porter, Selby, to Kalium Chemicals Limited. Top latch select liner with tailpipe and method of installing. 3,637,261, 1-25-72, Cl. 299-5.
 Porter, Theodore L.: *See—*
 Loren, Norman S.; and Porter, Theodore L., 3,704,795.
 Porter, Verleone Henry, to Du Pont de Nemours, E. I., and Company. Dispersion polymerization of tetrafluoroethylene. 3,704,285, 11-28-72, Cl. 260-87.50a.
 Porter, Virgle E., to Amtron, Inc. Multi-level spray control. 3,646,521, 2-29-72, Cl. 340-172.5.
 Porter, Warren K., Jr.: *See—*
 Franke, Norman W.; Paviak, Stanley C.; and Porter, Warren K., Jr., 3,706,676.
 Porter, Warren K., Jr., to Gulf Research & Development Company. Method of making stable, low viscosity wax-in-water emulsions. 3,671,457, 6-20-72, Cl. 252-311.500.
 Porter, Warren Wesley: *See—*
 Blake, Richard K.; De Hilster, Robert J.; and Porter, Warren Wesley, 3,665,113.
 Porter, Warren Wesley, to North Electric Company. Mechanical storage means for repertory dialer. 3,653,005, 3-28-72, Cl. 340-173.
 Porter, William D.: *See—*
 Taylor, Larry H.; Porter, William D.; Anderson, William J.; and Caner, Ralph A., 3,697,007.
 Porter, William D., to Northrop Carolina, Inc. Yarn handling apparatus. 3,690,530, 9-12-72, Cl. 226-97.000.
 Porter, William D.; and Taylor, Larry H., to Northrop Carolina, Inc. Textile thread winder with improved thread traversing mechanism. 3,690,579, 9-12-72, Cl. 242-43.000.
 Porter, William I.: *See—*
 Porter, William I.; Hindsley, Frank W.; and Hesse, James E. (said Hindsley and said Hesse assor. to said), 3,688,406.
 Porter, William I.; Hindsley, Frank W.; and Hesse, James E., said Hindsley and said Hesse assor. to said 1/2% to Porter, William I. Apparatus for and method of applying decay retardant compositions to teeth. 3,688,406, 9-5-72, Cl. 32-40.00r.
 Porter, Wilson B.; and Klein, Harold T., said Porter assor. to Robbins, James S., and Associates, Inc. and said Klein assor. to Robbins Company, The. Earth drilling machine. 3,695,364, 10-3-72, Cl. 173-57.000.
 Porterfield, Charles D.: *See—*
 Brown, Buck C.; and Porterfield, Charles D., 3,693,100.
 Porterfield, Jay G.: *See—*
 Vehe, Dennis A.; Porterfield, Jay G.; and Roth, Lawrence O., 3,679,132.
 Portescap, Le. Porte-Echappement Universal S.A.: *See—*
 Bonny, Jean-Pierre, 3,690,144.
 Portex, Inc.: *See—*
 Steltz, Douglas C., 3,656,812.
 Porth, Dieter; and Rinnergschwetner, Hans, to Daimler-Benz Aktiengesellschaft. Pivoted cab with lost-motion tilting mechanism. 3,642,316, 2-15-72, Cl. 296-28.
 Portinari, Antonio: *See—*
 Longoni, Sergio; and Portinari, Antonio, 3,643,727.
 Portion-Trol Liquor Systems, Inc.: *See—*
 Johnson, Robert J.; and Zipper, Walter J., 3,655,952.
 Portland Cement Association: *See—*
 Reeve, Leo C., 3,667,878.
 Portland Iron Works: *See—*
 Pearson, Harry C., 3,703,915.
 Portnoy, Allen J.; and Mundy, William L., to Permaneer Corporation. Registered printing and embossing of laminated boards. 3,681,159, 8-1-72, Cl. 156-209.000.
 Portnoy, Seymour: *See—*
 Gisser, Henry; and Portnoy, Seymour, 3,642,631.
 Portugall, Peter, to International Standard Electric Corporation. Key switch for chatterless switching. 3,699,293, 10-17-72, Cl. 200-166.00h.
 Portus, Bruce W., to Fiber Industries, Inc. Operation of polyamide continuous polymerization system. 3,679,635, 7-25-72, Cl. 260-78.00r.
 Portwood, Owen, Jr.; Starks, Charles M.; and Washecheck, Paul H., to Continental Oil Company. Process for preparing dimethylacetal. 3,641,163, 2-8-72, Cl. 260-615.
 Portyanko, Andrei Ivanovich; Lastovenko, Valentin Andreevich; Dudka, Viktor Vasilievich; Rodenko, Fedor Leontievich; Onischenko, Grigory Ivanovich; Vatkin, Adolf Semenovich; Pokusa, Alexei Alexandrovich; and Ruzin, Ivan Mikhailovich. Root harvester. 3,654,97, 4-11-72, Cl. 171-58.
 Portz, Wilhelm: *See—*
 Kirchem, Heinz; and Portz, Wilhelm, 3,702,894.
 Portz, William E.; and Stump, Harry B., to True Temper Corporation. Tool handle construction. 3,697,110, 10-10-72, Cl. 294-57.000.
 Portz, William H. Water cooler. 3,641,785, 2-15-72, Cl. 62-396.
 Porvair Limited: *See—*
 Harthorn, George Stuart, 3,641,978.
 Hull, Graham Rodney, 3,689,629.
 Posa, John P.: *See—*
 Frederick, Martin B.; and Posa, John P., 3,638,800.
 Poscaud, Xavier: *See—*
 Malen, Charles; Danree, Bernard; and Poscaud, Xavier, 3,686,190.
 Poschmann, Franz: *See—*
 Janson, Alfons; Poschmann, Franz; and Wittmann, Georg, 3,653,804.
 Posey, John T. Restraining device for wheelchair patients. 3,635,526, 1-18-72, Cl. 297-390.
 Posey, John T. Lap cover and restrainer. 3,669,107, 6-13-72, Cl. 128-134.000.
 Posey, John T., Jr. Restraining device. 3,641,997, 2-15-72, Cl. 128-134.
 Posh, Raymond C.: *See—*
 Homier, Robert I.; and Posh, Raymond C., 3,692,271.
 Poshkus, Algirdas C.: *See—*
 Bagley, George E.; and Poshkus, Algirdas C., 3,707,553.
 Herweh, John E.; and Poshkus, Algirdas C., 3,654,242.
 Poskin, Irvin C. Staple lifter with gripping jaws. 3,698,689, 10-17-72, Cl. 254-28.000.
 Posl, Rudolf: *See—*
 Krall, Heribert; Maag, Helmut; Herrmann, Otto; and Posl, Rudolf, 3,669,176.
 Posner, Edward C.: *See—*

- United States of America, National Aeronautics and Space Administration, 3,701,894.
- Posner, Howard G.: *See—*
Andrews, Russell W.; Kolesar, Paul M.; Payne, Robert M.; and Posner, Howard G., 3,651,511.
- Posner, Richard, to Creative Polymer Products Corporation. Mold for molding articles composed of different materials. 3,642,246, 2-15-72, Cl. 249-105.
- Posner, Seymour J., 25% Friedman and Goodman. Supersensitive energizing circuit. 3,697,787, 10-10-72, Cl. 209-308.000.
- Pospelov, Mikhail Valerievich: *See—*
Menyailo, Anatoly Tikhonovich; Pospelov, Mikhail Valerievich; Kaliko, Olga Romanovna; Pokrovskaya, Inna Evgenievna; Fedorova, Valentine Vsevolodovna; Shilnikova, Albina Georgievna; Yakovleva, Antonina Karpovna; and Narozhenko, Tamara Georgievna, 3,664,810.
- Pospisil, Frantisek: *See—*
Didek, Stanislav; Svec, Zdenek; and Pospisil, Frantisek, 3,672,144.
- Pospisil, Jaroslav; and Pisek, Josef, to Prerovske strojirny, narodni podnik. Method for adjustment of the heat generating process in a rotary kiln with a heat exchanger etc. 3,659,829, 5-2-72, Cl. 263-32.
- Pospisil, Karel: *See—*
Tomanec, Ladislav; and Pospisil, Karel, 3,683,698.
- Poss, Emilio, to TIMI S.p.A. Device for positioning workpieces in a pre-established sequence of machining positions. 3,704,956, 12-5-72, Cl. 408-91.000.
- Poss, Richard F.: *See—*
Gower, Bob G.; and Poss, Richard F., 3,647,732.
- Poss, Stanley M. Zinc sulfide phosphors. 3,657,142, 4-18-72, Cl. 252-301.6.
- Possberg, Jobst; Rostock, Kai; Nickl, Eligius; Otmar, Zajicek; and Helmut, Klapp. Process for the preparation of polyvinyl chloride polymerizates suitable for vinyl pastes. 3,696,079, 10-3-72, Cl. 260-78.5cl.
- Posse, Rolf-Fred: *See—*
Moll, Franz; Posse, Rolf-Fred; and Ringe, Werner, 3,674,703.
- Sauer, Theo; Posse, Rolf-Fred; and Schulz, Gunter, 3,692,283.
- Possell, Clarence R. Differential fluid pressure actuated electrical switch. 3,636,289, 1-18-72, Cl. 200-83.
- Posselt, Hans S., to Carus Corporation. Stabilization of alkali metal permanganate in alkaline solution. 3,652,417, 3-28-72, Cl. 252-80.
- Posselt, Klaus: *See—*
Thiele, Kurt; and Posselt, Klaus, 3,687,945.
- Posselt, Klaus; and Thiele, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Benzothioephene aminoketones and aminoalcohols. 3,658,845, 4-25-72, Cl. 260-330.5.
- Posselt, Klaus; and Thiele, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Pyrazole and pyrazolone aminoketones. 3,686,206, 8-22-72, Cl. 260-310.00r.
- Posser, Eugene H.: *See—*
Lorenz, Howard I.; and Posser, Eugene H., 3,685,600.
- Possick, Saul. Abdominal muscle exercise device. 3,672,356, 6-27-72, Cl. 128-57.000.
- Possis Machine Corporation: *See—*
Dammar, Raymon H., 3,636,621.
- Schuette, Thomas L., 3,676,979.
- Posso, Pierre A. Device for packaging reels of magnetic tape or the like and for stowing them by suspension. 3,667,595, 6-6-72, Cl. 206-53.000.
- Posso, Pierre A. Boxes for packaging a reel. 3,700,098, 10-24-72, Cl. 206-52.00f.
- Posson, Philip Lynn; Moore, Donald Baker; and Nicholson, Dallas Earl, to Explosive Technology, Inc. Aerodynamic directional grenade, launcher therefor and weapons system utilizing the same. 3,646,888, 3-7-72, Cl. 102-67.
- Post, Arthur H., Jr.; Polinsky, Ronald J.; and Dwyer, James L., to Millipore Corporation. Electrophoretic apparatus. 3,674,678, 7-4-72, Cl. 204-299.000.
- Post, Bradford: *See—*
Voorhis, Harold W.; and Post, Bradford, 3,672,560.
- Post, Carl A.; and Cabanaw, Eldred J., to Phillips Petroleum Company. Condensate purification and recovery for use as dilution steam to pyrolysis furnace. 3,666,828, 5-30-72, Cl. 260-683.
- Post, Gerald George, to Abbott Laboratories. Purification of erythromycin thiocyanate. 3,637,654, 1-25-72, Cl. 260-210.
- Post, Harold N.: *See—*
Cole, James K.; Coonce, Carroll A.; and Post, Harold N., 3,670,648.
- Post, Hendrik Alle: *See—*
Sie, Tjwan Khing; and Post, Hendrik Alle, 3,695,478.
- Post, Herman; Prigozy, Stephen; and Millie, Orrin, to Robins Industries Corporation. Device for punching cards or the like. 3,680,774, 8-1-72, Cl. 234-100.000.
- Post, Leo B.: *See—*
Dyer, James N.; Post, Leo B.; and Rose, Herbert J., 3,650,685.
- Dyer, James N.; Post, Leo B.; and Rosen, Herbert J., 3,684,724.
- Post, Norman W. Combination container for dispenser. 3,657,994, 4-25-72, Cl. 99-323.
- Post Office, The: *See—*
Ager, David Joseph; and Stanley, Ian William, 3,670,183.
- Enoch, Reginald David, 3,662,357.
- Finn, Frederick George, 3,695,309.
- Harding, John Patrick, 3,662,089.
- Ravenscroft, Ivor Albert; and Jackson, Lynden Ashbrooke, 3,703,690.
- Post, Paul B., to United Aircraft Corporation. Information association through logical functions derived from language. 3,644,898, 2-22-72, Cl. 346-172.5.
- Post, Richard F., to United States of America, Atomic Energy Commission. Ion source with mosaic ion extraction means. 3,660,715, 5-2-72, Cl. 315-11.000.
- Post, Richard F., to United States of America, Atomic Energy Commission. Conversion of high temperature plasma energy into electrical energy. 3,663,360, 5-16-72, Cl. 176-3.000.
- Post, Richard F., 12 1/2% to Williams, Darrell E. and 12 1/2% to Fowler, T. Kenneth. Inertial energy storage apparatus and system for utilizing the same. 3,683,216, 8-8-72, Cl. 310-67.000.
- Post, Robert C.: *See—*
Stroup, Ralph F.; Clingman, William H., Jr.; and Post, Robert C., 3,684,585.
- Post, Robert E.: *See—*
Beumer, Karl W.; Geany, Gerard M.; Haran, John A.; Hecker, Edward P.; Nyman, George E.; and Post, Robert E., 3,643,881.
- Post, Wiley G.: *See—*
Potts, Robert L.; and Post, Wiley G., 3,697,099.
- Posta, Joseph M.: *See—*
Mahaffy, Reid A.; Dunkerley, James B.; and Posta, Joseph M., 3,685,251.
- Postel, Edward. Mounting head for article of jewelry containing interchangeable ornaments. 3,643,467, 2-22-72, Cl. 63-29.
- Posthumus, Warren R.: *See—*
Gallistel, Albert F.; and Posthumus, Warren R., 3,635,387.
- Postigo, Pascual Agustin. Hygienic, variable-confinement-area pigpen. 3,631,839, 1-4-72, Cl. 119-20.
- Postlethwaite, Harvey Ernest, to Imperial Chemical Industries Limited. Carburettor containing porous material e.g. foamed plastic. 3,695,593, 10-3-72, Cl. 261-96.000.
- Postma, Gosse Jan: *See—*
Otten, Walter; Postma, Gosse Jan; Rietveld, Jan Joost; and Wolber, Jorg, 3,648,099.
- Postma, Lambertus: *See—*
Jonker, Hendrik; Janssen, Casper Johannes Gerardus Ferdinand; and Postma, Lambertus, 3,674,485.
- Postmaster General, Her Majesty's: *See—*
Miller, Michael Robert, 3,651,408.
- Potain: *See—*
Garnier, Andre, 3,638,805.
- Potak, Yakov Mikhailovich; Orzhekovsky, Julian Felixovich; Sachkov, Vladimir Vladimirovich; Kagan, Efim Solomonovich; Valdman, Anna Ivanovna; Shpagina, Nadezhda Nikolaevna; Poplavko-Mikhailov, Mikhail Vasilievich; Fomin, Alexandr Pavlovich; and Natapov, Smon Leibovich. Martensite stainless steel. 3,690,869, 9-12-72, Cl. 75-124.000.
- Potapenko, Viktor Viktorovich: *See—*
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- Potapov, Oleg Fedorovich: *See—*
Petrov, Vitaly Ivanovich; Ivanov, Alexandr Nikolaevich; Olenin, Jury Leonidovich; Eller, Arnold Oskarovich; Butuzov, Anatoly Akimovich; Basin, Abram Moiseevich; Starobinsky, Vladimir Borisovich; Ratner, Efim Rafailovich; and Potapov, Oleg Fedorovich, 3,659,542.
- Potash, Hanan, to Sperry Rand Corporation, mesne. Peak detection system. 3,668,532, 6-6-72, Cl. 328-151.000.
- Potash, Norman, to United States of America, Army. Drinking and resuscitation mask. 3,635,217, 1-18-72, Cl. 128-145.5.
- Potchen, Peter F., to Clark-Reliance Corporation, The. Humidifier control. 3,642,201, 2-15-72, Cl. 236-44.
- Potin, Marcel, to Societe Financiere Francaise de Licences et Brevets. Method and device for making and finishing zip fasteners. 3,639,969, 2-8-72, Cl. 29-408.
- Potlatch Forests, Inc.: *See—*
Glover, Clinton G., 3,652,060.
- Hayes, Leonard L., 3,642,151.
- Hayes, Leonard L.; and Hottinger, Gerald J., 3,643,715.
- Hayes, Leonard L., 3,651,961.
- Keller, Harold A.; and Young, Patrick J., 3,666,592.
- Keller, Harold A.; and Young, Patrick J., 3,681,174.
- McMinimy, Lawrence O., 3,674,596.
- Pottenger, Charles R., 3,674,434.
- Willows, James D., 3,687,260.
- Potman, Hendrik: *See—*
Sempel, Hendrinus; and Potman, Hendrik, 3,655,839.
- Potoski, John R.; and Freed, Meier E., to American Home Products Corporation. Schiff bases of quinoxaline-2-carboxyaldehydes and their reduction products. 3,632,581, 1-4-72, Cl. 260-247.5.

- Potoski, John R.; and Freed, Meier E., to American Home Products Corporation. Amino-substituted-quinoxalinyloxazolidines and oxazines. 3,635,982, 1-18-72, Cl. 260-268.
- Potoski, John R.; and Freed, Meier E., to American Home Products Corporation. Quinoxalinyloxazolidines and -oxazines. 3,647,790, 3-7-72, Cl. 260-244.
- Potoski, John R.; and Freed, Meier E., to American Home Products Corporation. Substituted 2-t-butyl-octahydro-2H-quinolizines. 3,692,791, 9-19-72, Cl. 260-293.530.
- Potrafke, Werner. Device for self-service stores. 3,651,890, 3-28-72, Cl. 186-1.
- Potrafke, Werner. Device for self-service stores. 3,672,469, 6-27-72, Cl. 186-1.00a.
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- Pott, Richard, to Westland Gummiwerke GmbH & Co. Conveyor belt. 3,633,428, 1-11-72, Cl. 74-231.
- Potteiger, Lester A., to United States of America, Navy. Telescoping ordnance device. 3,677,179, 7-18-72, Cl. 102-56.000.
- Pottenger, Charles R., to Potlatch Forests, Inc. Method and apparatus for determining lignin content. 3,674,434, 7-4-72, Cl. 23-230.00r.
- Potter, Allan G., to Iowa State University Research Foundation. Myoelectric brace. 3,631,542, 1-4-72, Cl. 3-1.1.
- Potter, Andrew E., Jr., to United States of America, National Aeronautics and Space Administration. Multispectral imaging system. 3,702,735, 11-14-72, Cl. 356-106.00s.
- Potter, Basil E.; Bosworth, Theodore K.; Chisholm, John P.; and Cadzow, James A., to Sierra Research Corporation. Computer determining the location of objects in a coordinate system. 3,659,085, 4-25-72, Cl. 235-150.200.
- Potter, Basil E., to Sierra Research Corporation. Radar detector and identifier. 3,660,844, 5-2-72, Cl. 343-18.
- Potter, Bronson M. Oscillator for means driving a resonant load. 3,638,223, 1-25-72, Cl. 340-384.
- Potter, Bronson M., to Mallory, P. R., & Co., Inc. Alerting devices, oscillators and flip flops. 3,697,983, 10-10-72, Cl. 340-384.00e.
- Potter, Charles, to AMVIT. Static mixer. 3,635,444, 1-18-72, Cl. 259-4.
- Potter, Charles, to Amvit. Pipe stopper for bell and spigot type of tile. 3,675,685, 7-11-72, Cl. 138-89.000.
- Potter, Charles William, to Weston, Charles, and Company Limited. Method of making oil seals. 3,685,127, 8-22-72, Cl. 29-400.000.
- Potter, Earl B., to Rohr Corporation. Thrust controlling system. 3,690,561, 9-12-72, Cl. 239-265.290.
- Potter, Gene Barrack; and Reeder, Ronald Holt, to Xerox Data Systems, Inc. Digital circuit logic. 3,688,127, 8-29-72, Cl. 307-207.000.
- Potter Instrument Company, Inc.: *See—*
Fieldgate, Ivan O., 3,641,567.
- Murray, Joseph John; and Pear, Charles B., Jr., 3,665,436.
- Pear, Charles B., Jr., 3,665,485.
- Pear, Charles B., Jr.; and Ross, Joseph A., 3,678,847.
- Potter, John T., 3,656,426.
- Ross, Joseph A.; and Hemdal, Hakan O., 3,656,154.
- Rush, Charles D.; and Hube, Arthur B., 3,680,734.
- Potter, Jack D.; and Reams, Bernard W., to Warren Petroleum Corporation. Rising stem valve remote position indicator. 3,671,692, 6-20-72, Cl. 200-61.860.
- Potter, Jimmie Clinton: *See—*
Wood, Charles Drury, III; Olsen, Sydney, Alvin; and Potter, Jimmie Clinton, 3,680,287.
- Potter, John T., to Potter Instrument Company, Inc. Apparatus for printing alphanumeric and binary code markings and comparison means therefor. 3,656,426, 4-18-72, Cl. 101-93.
- Potter, Olin E.; and Tomasi, Biagio J., to Worthington Compressor and Engine International; division of Worthington Corporation. Liquid cooler assembly. 3,690,371, 9-12-72, Cl. 165-35.000.
- Potter, Roderick B., to Kelley Company, Inc. Hold-down mechanism for the ramp of a dockboard. 3,646,627, 3-7-72, Cl. 14-71.
- Potter, Roderick B., to Kelley Company, Inc. Light fixture for a loading dock. 3,696,240, 10-3-72, Cl. 240-73.0bj.
- Potter, Ronald D., to Erie Engineering Company. Reach-extension attachment for work transfer device. 3,648,854, 3-14-72, Cl. 214-1.
- Potter, Ronald D., to Erie Engineering Company. Midposition stop fixture for work transfer device. 3,648,855, 3-14-72, Cl. 214-1.
- Potterat, Raymond-Gerard. Instrument for presenting an object to be viewed. 3,667,634, 6-6-72, Cl. 214-340.000.
- Potters, Cornelis Johannes Theresia: *See—*
Holster, Peter Leendert; Smulders, Hendricus Franciscus Gerardus; and Potters, Cornelis Johannes Theresia, 3,631,556.
- Potters, Cornelis Johannes Theresia; Reinhoudt, Jacobus Pieter; and Smulders, Hendricus Franciscus Gerardus, to U.S. Philips Corporation. Automatic toothbrush with a fluid motor. 3,643,273, 2-22-72, Cl. 15-22.
- Pottharst, John E., Jr. Compressor. 3,652,183, 3-28-72, Cl. 415-170.
- Pottharst, John E., Jr. Liquid level control assembly. 3,686,451, 8-22-72, Cl. 200-84.00r.
- Potthoff, Ingo, to Schade, Gustav, Maschinenfabrik. Scraper to recover bulk material from storage. 3,658,169, 4-25-72, Cl. 198-36.
- Pottiez, Fernand; and Verbeest, Raphael, to UCB, Societe Anonyme. Process for the regeneration of alkanolamines by distillation, alkali hydroxide treatment, heat, phase separation and distillation. 3,664,930, 5-23-72, Cl. 203-37.
- Pottinger, Eugene A.: *See—*
Shelton, Winston L.; and Pottinger, Eugene A., 3,677,170.
- Pottinger, Eugene A.; and Shelton, Winston L., to Commercial Appliances, Inc. Means for melting congealed liquid and for preventing congelation. 3,667,375, 6-6-72, Cl. 99-408.
- Potts, Austin L.: *See—*
Barrow, Marvin A., 3,668,628.
- Potts, John D.: *See—*
Kirsch, Francis W.; Potts, John D.; and Barmby, David S., 3,655,813.
- Kirsch, Francis William; Barmby, David S.; and Potts, John D., 3,706,814.
- Potts, John T.; Lange, Lawrence H.; and Liss, Thomas P., to Galigher Company, The. Flotation machine and system utilizing impeller-type aeration units. 3,647,066, 3-7-72, Cl. 209-169.
- Potts, Robert L.; and Post, Wiley G. Trailer cushioning and stabilizing device. 3,697,099, 10-10-72, Cl. 280-446.00b.
- Potts, Vinson S.: *See—*
Kneusel, Raymond H. P.; and Potts, Vinson S., 3,693,828.
- Luviano, John Joseph; and Potts, Vinson S., 3,659,739.
- Potts, Vinson S.; and Duham, Frederick W., to Crown Cork & Seal Company, Inc. Container forming apparatus. 3,683,834, 8-15-72, Cl. 113-1.00f.
- Potts, Vinson S., to Crown Cork & Seal Company, Inc. Necked-in container. 3,698,596, 10-17-72, Cl. 220-670.000.
- Potts, William F., to Liberty Combustion Corporation. Fluid fuel igniter control system. 3,681,001, 8-1-72, Cl. 431-264.000.
- Potvin, Alfred M. Sanitary disposal device. 3,664,576, 5-23-72, Cl. 232-43.2.
- Potvin, Raoul J., to Conair, Incorporated. Material transporting device. 3,635,377, 1-18-72, Cl. 222-145.
- Potzick, Anthony J., to Mosler Safe Company, The. Dial structure for mechanism requiring both lineal and rotary input operating movements. 3,699,789, 10-24-72, Cl. 70-329.000.
- Poucher, Michael; and Williams, Michael Roy, to Rolls-Royce Limited. Variable gas turbine engine air intake. 3,659,418, 5-2-72, Cl. 60-39.290.
- Poucher, Michael; Brooks, Leslie John; and Morris, Geoffrey William, to Rolls-Royce Limited. Gas turbine engine. 3,662,556, 5-16-72, Cl. 60-226.00r.
- Poulain, Jacques Constant: *See—*
Ducrot, Alain Jean Edmond; Poulain, Jacques Constant; Pavon, Miguel Sancho; and Turpin, Michel Louis, 3,694,333.
- Mandineau, Daniel Paul Henri; Mourey, Michele Yvonne Christiane; Pizzini, Georges Philippe Henri; and Poulain, Jacques Constant, 3,668,017.
- Poulakka, Heikki, to Valmet Oy. X-ray apparatus for measuring paper web moisture and the like. 3,660,662, 5-2-72, Cl. 250-83.3.
- Poulett, Anthony, to Ampex Corporation. Method and apparatus for recording and reproducing television or other broad band signals with an altered time base effect. 3,637,928, 1-25-72, Cl. 178-6.6.
- Pouli, Dirk; and Larson, Theodore L., to Allis-Chalmers Manufacturing Company. Process for improving nickel base, nonnoble metal fuel cell catalysts. 3,682,709, 8-8-72, Cl. 148-20.300.
- Pouligny, Claude: *See—*
Zeter, Francois; Bellardy, Roger; Pouligny, Claude; and Walter, Marc, 3,702,529.
- Poulin, Valmor R., Jr.: *See—*
Gidge, Lester; and Poulin, Valmor R., Jr., 3,673,048.
- Poulsen, Peder Ulrik. Winding and feeding mandrel for forming tubing from strip material. 3,655,489, 4-11-72, Cl. 156-429.
- Poulsen, Peder Ulrik. Rotary vibrator. 3,661,362, 5-9-72, Cl. 259-1.
- Poulsen, Peder Ulrik. Driven mandrel rotatable about its longitudinal axis. 3,679,521, 7-25-72, Cl. 156-429.000.
- Poulsen, Poul Albert: *See—*
Te Kronnie, Gerrit Hendrik; Volkers, Karel Hero; and Poulsen, Poul Albert, 3,659,346.
- Poulsen, Stephen D., Jr., to Airco, Inc. Break seal. 3,670,914, 6-20-72, Cl. 215-32.000.
- Poulton, Barrie Armstrong, to Handling, Simon, Engineers Limited. Bag slitting machines. 3,680,725, 8-1-72, Cl. 214-305.000.
- Poultry-Vac, Inc.: *See—*
Reynolds, Frank N., 3,683,862.
- Poumakis, Eleuthere: *See—*
Schaffer, Harry G.; Neilson, Dan A.; and Poumakis, Eleuthere, 3,699,532.
- Poumakis, Eleuthere. Random access magnetic storage system with movable transducer. 3,676,868, 7-11-72, Cl. 340-174.10c.
- Pounder, Edwin: *See—*
Casani, John R.; and Pounder, Edwin, 3,685,478.

Pounder, Edwin; and Casani, John R., to Transdynamics, Inc. Course-madeigood apparatus for sailboats. 3,685,352, 8-22-72, Cl. 73-178.00r.

Pounders, Jack D.: *See—*
Lehnies, Hans R.; and Pounders, Jack D., 3,680,549.

Pountney, Laurence Howard; Amsbury, Clifford Roy; and Antliff, Stanley John; deceased (by Antliff, Freda; administratrix). Recording and reproducing system for work time study. 3,657,488, 4-18-72, Cl. 179-100.1.

Poupin, Raymond, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Device for modifying the path of a continuous rod as manufactured by a machine such a cigarette-making machine. 3,631,749, 1-4-72, Cl. 83-106.

Pourrias, Bernard; Huet, Yves; and Pomaret, Carlos, to Delalande S.A. Heptaminol trans-cinnamate. 3,641,124, 2-8-72, Cl. 260-501.17.

Pourrias, Bernard M.: *See—*
Fauran, Claude P.; Raynaud, Guy M.; Pourrias, Bernard M.; and Turin, Michel J., 3,634,411.
Fauran, Claude P.; Raynaud, Guy M.; Pourrias, Bernard M.; and Douzon, Colette A., 3,665,014.
Fauran, Claude P.; Turin, Michel J.; Raynaud, Guy M.; and Pourrias, Bernard M., 3,704,305.
Raynaud, Guy M.; Fauran, Claude P.; Turin, Michel J.; Pourrias, Bernard M.; and Huguot, Gerard J., 3,696,100.

Pousar, Kurt: *See—*
Enne, Paavo; Gahmberg, Gustaf; Pousar, Kurt; and Solitanner, Kaarlo Henrik, 3,636,741.

Poussin, Antoine: *See—*
Babany, Lucien; and Poussin, Antoine, 3,636,467.

Poussin, Antoine, to Thomson-CSF. Wide-band frequency-converting and amplifying circuits. 3,680,004, 7-25-72, Cl. 332-19.000.

Pout, Christopher Ronald: *See—*
Burbidge, Bernard Whiting; Keen, Ian Montgomery; and Pout, Christopher Ronald, 3,668,113.

Pouwels, Edward M.; and Roberts, James K., to Bendix Corporation. The. Adaptive braking control valve. 3,677,610, 7-18-72, Cl. 303-21.00f.

Pouwels, Hendrik: *See—*
Van Der Meer, Samuel; Kruyt, Willem; and Pouwels, Hendrik, 3,662,035.

Povarov, Oleg Alexeevich: *See—*
Deich, Mikhail Efimovich; Filippov, Gennady Alexeevich; Sobolev, Sergei Petrovich; and Povarov, Oleg Alexeevich, 3,652,182.

Povilaitis, Frank R.; and Strobel, Carmon R., to Chrysler Corporation. Vehicular headlamp cleaner. 3,641,613, 2-15-72, Cl. 15-250.02.

Povolotsky, Aron Markovich; Sushkin, Vyacheslav Petrovich; Fateichev, Anatoly Semenovich; and Gavrilov, Nikolai Vasilievich, to Leningradskoe Proektno-Experimentsalnoe Otdelenie Vsesojuznogo Gosudarstvennogo Nauchno Issledovatel'skogo i Proekt-Nogo Instituta Vniiproektelektromontash, Dnepropetrovskaya ulitsa. Method of making a composite steel-aluminum anode rod for electrolysis of aluminium. 3,703,025, 11-21-72, Cl. 29-446.000.

Powalowski, Joseph C., and Westfall, James E., to Continental Can Company, Inc. Composite closure. 3,656,648, 4-18-72, Cl. 215-46.

Powel, William Sydney, to Redland Tiles Limited, mesne. Apparatus for advancing pallets for making tiles. 3,677,686, 7-18-72, Cl. 425-452.000.

Poweleit, Wilhelm. Wheel assembly for toy vehicles. 3,642,048, 2-15-72, Cl. 152-323.

Powell, Anthony Charles: *See—*
King, George; Rayner, John William Frederick; and Powell, Anthony Charles, 3,647,536.

Powell, Arthur C., to California Portland Cement Company. Rotary kiln nose ring. 3,682,453, 8-8-72, Cl. 263-33.00r.

Powell, B. J.: *See—*
Hill, Theodore, 3,678,531.

Powell, Barney R.: *See—*
Morris, Thomas B.; Paul, Fred; and Powell, Barney R., 3,634,648.
Morris, Thomas B.; Paul, Fred; and Powell, Barney R., 3,665,146.

Powell, Carl G.: *See—*
Harris, Erik P.; Lean, Eric G.; and Powell, Carl G., 3,675,150.
Lean, Eric G.; Pennington, Keith S.; Pole, Robert F.; and Powell, Carl G., 3,633,995.

Powell, Carroll E.; and Carter, Clinton L. Teaching machine. 3,666,872, 5-30-72, Cl. 35-9.00a.

Powell, Charles Perry, to North American Rockwell Corporation. Bobbin selector device. 3,647,065, 3-7-72, Cl. 209-88.

Powell, Cyril E., to Consolidated Coin Company (Ireland) Limited. Automatic control for dispensing machine. 3,651,987, 3-28-72, Cl. 221-13.

Powell, David B., to General Electric Company. Switchgear draw-out apparatus with clutch interlock. 3,663,773, 5-16-72, Cl. 200-50.0aa.

Powell, Douglas W. Dentures. 3,657,815, 4-25-72, Cl. 32-2.

Powell, Edgar S., Jr. Bead stringer. 3,650,010, 3-21-72, Cl. 29-241.

Powell, Eugene L.: *See—*
Subbaratnam, Anangur V.; and Powell, Eugene L., 3,687,728.

Powell, Floyd G., Jr., to National Cash Register Company, The. Rod insertion method. 3,653,122, 4-4-72, Cl. 29-604.

Powell, George, to E.M.S. Holdings Pty. Ltd. Prawn sorting machine. 3,693,789, 9-26-72, Cl. 209-73.000.

Powell, Gordon F. W., to Molins Machine Company Limited. Apparatus for measuring hardness of cigarette ends. 3,691,823, 9-19-72, Cl. 73-81.000.

Powell, Gordon Francis Wellington; and Preston, Edward George, to Molins Machine Company Limited. Cigarette manufacture. 3,699,974, 10-24-72, Cl. 131-21.00r.

Powell, Howard E.: *See—*
Waters, Roy F.; Powell, Howard E.; and Ballard, Lee N., 3,653,875.

Powell, Howard E.; and Smith, Lawrence L., to United States of America, Interior. Recovery of zinc and nickel from waste phosphate liquor. 3,649,220, 3-14-72, Cl. 23-312.

Powell, John M.; and Frazier, Lauren L., to General Electric Company. Ice maker. 3,678,701, 7-25-72, Cl. 62-353.000.

Powell, Johnnie L., to Mandrel Industries, Inc. Container packing apparatus. 3,645,410, 2-29-72, Cl. 214-6.

Powell, Kenneth R.: *See—*
De Cosmo, Anthony; Powell, Kenneth R.; and Spiegel, Si I., 3,634,180.

Powell, Louis A., to Wellman-Lord, Inc. Food products. 3,692,543, 9-19-72, Cl. 99-144.000.

Powell, Mabrin P.; and Nauman, Mark R., to U.S. Plywood-Champion Papers Inc. Pressure sensitive record system. 3,686,015, 8-22-72, Cl. 117-36.700.

Powell Manufacturing Company, Inc.: *See—*
Hammond, Walter Cecil, 3,695,013.

Powell, Merl, to Bell & Howell Company. Sorter control circuit. 3,651,936, 3-28-72, Cl. 209-74.

Powell, Milan: *See—*
Mundt, James E.; and Powell, Milan, 3,669,407.

Powell, Patrick L., to Stewart-Warner Corporation. Speedometer and odometer assembly. 3,693,459, 9-26-72, Cl. 73-490.000.

Powell, Richard W. Fluorescent lamp starting and control circuit. 3,638,070, 1-25-72, Cl. 315-163.

Powell, Robert H., to Deering Milliken Research Corporation. Stop motion drop wire. 3,635,258, 1-18-72, Cl. 139-368.

Powell, Russell A., to Koppers Company, Inc. Furnace top charging devices. 3,679,192, 7-25-72, Cl. 266-27.000.

Powell, Stancil Driftwood, to Celanese Corporation. Process for preparing polyester blend fabrics with durable flame resistance. 3,692,559, 9-19-72, Cl. 117-76.00t.

Powell, Thomas C.: *See—*
Anderson, Jerrold L.; Haines, Robert C., Jr.; and Powell, Thomas C., 3,694,372.

Powell, Thomas E.: *See—*
Devitt, James J.; Henson, Rudy D.; and Powell, Thomas E., 3,632,701.

Powell, Thomas H., Jr.: *See—*
Tewksbury, John M.; Jackson, Harold W.; and Powell, Thomas H., Jr., 3,660,781.

Powell, Thurman O. Combination elevator and spider. 3,675,278, 7-11-72, Cl. 24-249.0dp.

Powell, Walter F., to General Electric Company. Apparatus for operating electric discharge lamps and auxiliary lighting lamps. 3,679,931, 7-25-72, Cl. 315-92.000.

Power, Basil Dixon: *See—*
Wycliffe, Henry; and Power, Basil Dixon, 3,677,664.

Power, Basil Dixon; and Oswald, Roger D., to British Oxygen Company Limited, The; t/a Edwards High Vacuum International. Vapour traps. 3,635,039, 1-18-72, Cl. 62-55.5.

Power, Basil Dixon, to British Oxygen Company, Limited, The. Vacuum pumps. 3,686,474, 8-22-72, Cl. 219-271.000.

Power Car Door Corporation: *See—*
Hayday, William, 3,653,154.

Power, Carlton: *See—*
Firth, Jay A.; and Power, Carlton, 3,682,179.

Power Control Corporation: *See—*
Happel, William J.; and Opal, Kenneth E., 3,649,800.

Power Designs, Inc.: *See—*
Silver, Arthur E., 3,699,352.

Power, Don W. Lighted earring. 3,689,758, 9-5-72, Cl. 240-6.40w.

Power Drive Corporation: *See—*
Gundersen, Ralph W., 3,678,583.

Power Flo Products Incorporated: *See—*
Lewis, George E., 3,688,880.
Szekely, Otto E., 3,678,786.

Power, George Edward: *See—*
Senior, Alwyn; and Power, George Edward, 3,660,201.

Power, Gerald P., to Honeywell Inc. Reserve battery having the electrolyte compartment moved by gas pressure. 3,674,566, 7-4-72, Cl. 136-114.000.

Power, Harlan D., to Phillips Petroleum Company. Tube bender and method. 3,662,580, 5-16-72, Cl. 72-217.

Power Parts Company: *See—*
Lock, Harry R., 3,667,318.

Sasgen, Peter J., 3,662,470.

Waddle, James B., 3,684,060.

Power Systems and Controls, Incorporated: *See—*
Carter, Robert; Amos, Ralph A.; and Gregory, Charles A., Jr., 3,665,495.

Power Technology Corporation: *See—*
Hill, Charles C., 3,670,926.
Nicita, John, 3,651,640.

Power-Curve Conveyor Company: *See—*
Dahlem, Billy J.; and Martin, John A., 3,698,572.

Power-Gas Corporation Limited, The: *See—*
Milner, Geoffrey, 3,666,441.
Muirhead, Duncan Ronald; and Michell, Douglas Allison, 3,702,595.

Power-Gas Limited: *See—*
Scuffham, James Barrie; and Rowden, George Allan, 3,663,169.

Powercube Corporation: *See—*
Schuler, Chester L., 3,699,394.

Powerdyne Inc.: *See—*
Frey, Albert M., 3,655,930.

Powers, Allen E.; and Segal, Robert, to Litton Systems, Inc. Apparatus and method for adjusting the indexing rate of a fixed length shift register. 3,660,841, 5-2-72, Cl. 343-5.

Powers and Hawkins Enterprises, Inc.: *See—*
Powers, Gene A., 3,661,211.

Powers Chemco, Inc.: *See—*
Bjelland, John Louis; Flynn, Floyd W.; and Schutt, Norman C., 3,690,780.
Killy, Rosemonde W., 3,650,761.

Powers, Earl N.: *See—*
Di Vita, Philip S.; Powers, Earl N.; and Werneth, Charles J., 3,641,509.
Di Vita, Philip S.; Powers, Earl N.; and Werneth, Charles J., 3,646,579.

Powers, Gale A.: *See—*
Aweida, Jesse I.; Arthur, William C.; and Powers, Gale A., 3,664,604.

Powers, Gene A., to Powers and Hawkins Enterprises, Inc. Firefighting apparatus. 3,661,211, 5-9-72, Cl. 169-2.

Powers, George A., to Rainshield, Inc. Weather deflector for automobile windshield. 3,650,559, 3-21-72, Cl. 296-95.

Powers, John. Drainage system for body cavities. 3,674,033, 7-4-72, Cl. 128-350.00r.

Powers, John A.: *See—*
Peters, Till J. N.; and Powers, John A., 3,652,462.

Powers, John V.; and Romankiw, Lubomir T., to International Business Machines Corporation. Electroplating cell including means to agitate the electrolyte in laminar flow. 3,652,442, 3-28-72, Cl. 204-273.

Powers, Kenneth W.; and Serniuk, George E., to Esso Research and Engineering Company. Dissolution of polymers. 3,660,160, 5-2-72, Cl. 134-22.

Powers Manufacturing, Inc.: *See—*
Peck, Thomas W., 3,646,724.
Powers, Whitney S., Jr., 3,690,456.

Powers, Marvin D. Pipeline pigs. 3,643,280, 2-22-72, Cl. 15-104.06.

Powers, Marvin D. Flexible pipeline pigs. 3,659,305, 5-2-72, Cl. 15-104.06.

Powers Patrick; Graham, Reginald; and Bingham, Richard Albert, to Associated Electrical Industries Limited. Mass spectrometer electrode gap control. 3,686,683, 8-22-72, Cl. 315-357.000.

Powers, Robert M.; and Best, Roland W., to Staley, A. E., Manufacturing Company. Carboxyl starch amine ethers. 3,649,624, 3-14-72, Cl. 260-233.3.

Powers, Thomas George: *See—*
Mokrzycki, Stanley Martin; Sexton, Edwin Leon; Powers, Thomas George; and Melnick, Daniel, 3,677,768.

Powers, Walter H.: *See—*
Hessemer, Lawrence E.; Manning, Richard P.; Sparks, Harry G.; and Powers, Walter H., 3,644,728.

Powers, Whitney S., Jr., to Powers Manufacturing, Inc. Glass container crack detector. 3,690,456, 9-12-72, Cl. 209-73.000.

Powers, William J., III: *See—*
Bigdon, Orville W.; Edwards, Robert S.; and Powers, William J., III, 3,686,243.

Powilleit, Hansherger, to International Harvester Company. Self-energizing disk brake for automotive vehicles. 3,693,763, 9-26-72, Cl. 188-71.400.

Powsey, Eric, to Linread Limited. Method of setting tubular fasteners. 3,686,914, 8-29-72, Cl. 72-114.000.

Poy, Guy: *See—*
Boissieras, Jean; Ceyzeriat, Louis; and Poy, Guy, 3,697,568.

Poylo, Michael C., to International Telephone and Telegraph Corporation. Manikin audio system. 3,665,087, 5-23-72, Cl. 35-17.

Poylo, Michael C.; and Staller, Karel J., to International Telephone and Telegraph Corporation. Card reader. 3,692,981, 9-19-72, Cl. 235-61.11d.

Poyner, James, to Dunlop Holdings Limited. Wheels. 3,664,405, 5-23-72, Cl. 152-375.000.

Poynter, Donald B. Apparatus for testing driving skill. 3,657,457, 4-18-72, Cl. 36-11.

Poziomek, Edward J.: *See—*
Novak, Thaddeus J.; and Poziomek, Edward J., 3,642,449.

Poziomek, Edward J.; and Crabtree, Eleanor V., to United States of America, Army. Chemical detector. 3,645,693, 2-29-72, Cl. 23-230.

Poziomek, Edward J.; Hackey, Ethel B.; Hoy, Daniel J.; and Friedman, Harry George, Jr., to United States of America, Army. Detection method. 3,689,223, 9-5-72, Cl. 23-230.00r.

Pozzi, Frank: *See—*
Gilbert, Lloyd A., 3,658,103.

PPG Industries, Inc.: *See—*
Ackley, Richard H., 3,664,909.
Allen, Edward M., 3,650,694.
Allen, Edward Merle, 3,704,102.
Barter, James A.; Eddy, Clifford O.; and Stevens, Henry C., 3,642,755.
Bartlett, Ronald S., 3,637,778.
Bartlett, Ronald S., 3,647,839.
Beck, Carl A., 3,658,614.
Benner Floyd E., Jr.; and Loehr, Clifford E., 3,692,055.
Bogdan, John R.; and Farmer, Alonzo, 3,650,695.
Bohl, Lester E.; and Vancamp, Raymond M., 3,642,918.
Bowser, George H.; Shoop, Vernon A.; and Pyzewski, Stanley J., 3,657,900.
Bowser, George H.; Shoop, Vernon A.; Pyzewski, Stanley J.; Mazzoni, Renato J.; and Bologna, John P., 3,669,785.
Bricker, Jack A.; and Shaw, Hugh E., Jr., 3,656,854.
Briddy, Robert G.; and Newyear, Edward G., 3,655,706.
Broun, Thorowgood T., Jr., 3,707,443.
Carlson, Gordon A., 3,647,653.
Carlson, Gordon A., 3,650,925.
Cathers, William P., 3,675,788.
Chisholm, Raymond S., 3,649,485.
Chisholm, Raymond S., 3,701,266.
Christenson, Roger M.; and Zwack, Robert R., 3,663,398.
Christenson, Roger M.; and Le Bras, Louis R., 3,663,400.
Christenson, Roger M.; and Lebras, Louis R., 3,663,401.
Christenson, Roger M.; and Zwack, Robert R., 3,663,402.
Christenson, Roger M.; and Zwack, Robert R., 3,663,403.
Christenson, Roger M.; and Le Bras, Louis R., 3,663,405.
Coleman, George E., 3,654,459.
Coleman, George E., 3,676,673.
Cormany, Charles L.; and Spotts, John A., Jr., 3,679,590.
Crano, John C.; and Fleming, Elizabeth K., 3,637,894.
Cuevas, Ephraim A., 3,671,187.
D'Alelio, Gaetano F., 3,676,398.
Darr, Donald E.; Edwards, G. Byron; Loehr, Clifford E.; and Young, Elgin E., 3,640,745.
Davis, Harry P., 3,700,542.
Davis, Harry P., 3,700,543.
De Witt, Bernard J., 3,689,383.
Dean, Warren E.; and Dorsett, Charles M., 3,674,428.
Dear, Terrence A., 3,694,181.
Dear, Terrence A., 3,695,497.
Dear, Terrence A., 3,695,498.
Demarest, Henry M., Jr., 3,694,180.
Dietz, Albert; Goodspeed, Neil C.; and May, Russell R., Jr., 3,640,744.
Dietz, Albert, 3,650,792.
Doerge, Herman P.; and Wismer, Marco, 3,637,542.
Doerge, Herman P.; and Wismer, Marco, 3,639,307.
Doerge, Herman P.; and Wismer, Marco, 3,647,724.
Donley, Harold E., 3,658,568.
Donley, Harold E.; Rieser, Raymond G.; and Wagner, William E., 3,660,061.
Doran, Thomas J.; Wagner, Melvin P.; and Stevens, Henry C., 3,664,403.
Dowbenko, Rostyslaw; and Anderson, Carl C., 3,635,894.
Dowbenko, Rostyslaw, 3,637,760.
Dowbenko, Rostyslaw; and Christenson, Roger M., 3,645,984.
Dowbenko, Rostyslaw; and Christenson, Roger M., 3,647,737.
Dowbenko, Rostyslaw; Chang, Wen-Hsuan; and Anderson, Carl C., 3,677,978.
Dowbenko, Rostyslaw; and Anderson, Carl C., 3,678,007.
Dowbenko, Rostyslaw; and Chang, Wen-Hsuan, 3,679,564.
Dowbenko, Rostyslaw, 3,692,757.
Drummond, Warren W., 3,675,872.
Drummond, Warren W., 3,685,764.
Drummond, Warren W., 3,686,772.
Erikson, J. A.; and Douds, Robert G., 3,706,709.
Erikson, J. Alden; and Gacesa, Gerald R., 3,674,670.
Farmer, Alonzo; and Bogdan, John R., 3,647,383.
Frank, Robert G., 3,701,643.
Frank, Robert G., 3,701,644.
Gillery, Frank H.; and Pressau, Jean P., 3,655,545.
Gillery, Frank H., 3,677,814.
Goldberg, Arnold J.; and Knavish, Leonard A., 3,692,510.
Goodspeed, Neil C.; Dietz, Albert; and May, Russell R., Jr., 3,650,793.
Hahn, Ernest A., 3,676,192.
Hammel, Joseph J.; and Mackenzie, John D., 3,650,721.

Hansen, Charles M.; Muir, Joseph A.; and Leyh, Jeffrey R., 3,637,470.
 Hastings, Martin R.; and Luckock, Glenn W., 3,697,298.
 Hawkins, Charles T.; and Parkhill, Laverne O., 3,644,934.
 Helmick, William E., 3,634,020.
 Hoekje, Howard H.; Strain, Franklin; and Wilson, William L., 3,642,442.
 Holden, Calvin B.; and Wilson, William L., 3,661,524.
 Hughes, Thomas H., 3,685,122.
 Irwin, James, 3,658,737.
 Irwin, Winfield T., 3,670,348.
 Janakirama Rao, Bhogaraju V., 3,652,303.
 Jensen, Thomas H.; and Bennett, Howard M., 3,652,243.
 Johnson, Randall Scott; and Imier, Vaughn Roger, 3,682,613.
 Kearley, Robert A., 3,647,370.
 Kistler, Richard P., 3,689,044.
 Krupp, Myron J.; Colburn, Frederick R.; and Knudtson, John P., 3,645,871.
 Kung, Frederick E., 3,646,230.
 Kunkle, Gerald E., 3,658,505.
 Kunkle, Louis E.; and Heidish, William E., 3,666,432.
 Le Bras, Louis R.; and Ostrowski, John S., 3,663,397.
 Le Bras, Louis R.; and Zwack, Robert R., 3,663,406.
 Levine, Morris; Brane, Ralph M.; and Hight, Roland W., 3,657,169.
 Levine, Morris; Brane, Ralph M.; and Hight, Roland W., 3,684,676.
 Littell, Harry E., Jr., 3,671,370.
 Loop, Frederick M., 3,663,399.
 Loop, Frederick M., 3,663,404.
 Loop, Frederick M.; and Bosworth, Frank C., 3,663,407.
 Luscher, Paul; Hudson, Ben A.; and Childers, Billie W., 3,672,947.
 Lytton, Irvin V.; and Rogers, Ruel T., 3,661,643.
 Makhlof, Joseph M.; Christenson, Roger M.; and Halcoussis, Andrew, 3,666,710.
 Makhlof, Joseph M.; and Porter, Samuel, Jr., 3,686,111.
 Martinsons, Aleksandrs; and De Witt, Bernard J., 3,663,414.
 Martinsons, Aleksandrs, 3,677,917.
 Martinsons, Aleksandrs, 3,706,644.
 Maximovich, Michael J., 3,689,462.
 McDougal, Harmon A.; and Whitney, Erwin C., 3,688,796.
 Michalik, Edmund R., 3,706,544.
 Michelotti, Joseph E.; and Henery, Vern A., 3,652,246.
 Miller, Richard G.; and Cavitt, Roy L., 3,671,291.
 Miller, Richard G., 3,672,939.
 Miller, Richard G., 3,674,517.
 Misson, George W., 3,682,610.
 Mitchell, Robert F.; and Carlson, Gordon A., 3,655,344.
 Mosso, Paul R.; and Faeltten, Carl R., 3,655,588.
 Nalley, Charles E.; and Lovelace, Joseph B., 3,655,353.
 Newyear, Edward G., 3,642,849.
 Nielsen, Donald R., 3,639,285.
 Nielsen, Donald R., 3,655,738.
 Parker, Earl E.; Christenson, Roger M.; and Dowbenko, Rostyslaw, 3,655,823.
 Parker, Earl E.; and Friedlander, Charles B., 3,673,132.
 Parker, Gordon M.; Wismer, Marco; and Hahn, Ernest A., 3,679,731.
 Parker, Gordon M.; and Heuser, Raymond C., 3,690,927.
 Peck, James G., Jr., 3,691,036.
 Pefferman, William C., 3,696,519.
 Pfender, Emil, 3,695,840.
 Plasynski, Joseph E.; and Jerabek, Robert D., 3,640,810.
 Plasynski, Joseph E.; and Jerabek, Robert D., 3,699,009.
 Poola, Jagadeesan V., 3,639,112.
 Prange, Bernard H.; and Gintert, Dean W., 3,638,564.
 Raetzsch, Carl W.; Van Hoozer, John F.; and Cunningham, Hugh, 3,650,919.
 Raetzsch, Carl W.; Van Hoozer, John F.; and Cunningham, Hugh, 3,650,939.
 Raetzsch, Carl W.; Van Hoozer, John F.; and Cunningham, Hugh, 3,657,098.
 Raetzsch, Carl W.; and Cunningham, Hugh, 3,677,927.
 Raetzsch, Carl W., 3,684,670.
 Schimmel, Karl F., 3,653,799.
 Schimmel, Karl F., 3,678,020.
 Seiner, Jerome A., 3,654,193.
 Seiner, Jerome A., 3,655,129.
 Seiner, Jerome A., 3,655,591.
 Seiner, Jerome A., 3,661,807.
 Seiner, Jerome A., 3,669,728.
 Seiner, Jerome A., 3,669,729.
 Sheppard, Robert S.; and Wilson, William L., 3,661,523.
 Shorr, Norman; and Littell, Harry E., Jr., 3,657,057.
 Simon, Martin J., 3,694,239.
 Sneed, William K.; and Knoop, John F., 3,705,008.
 Stevens, Henry C., 3,640,985.
 Stevens, Henry C.; and Wartmann, Hans J., 3,652,631.
 Stewart, Dorothy Ann; and Maloney, Bernard Allen, 3,652,202.

Stewart, John L.; Mazzoni, Renato J.; and Schutrum, Lester F., 3,683,974.
 Strickland, Edward T.; and Amos, Homer C., 3,697,241.
 Tarnopol, Milton S.; and Snyder, Thomas P., 3,671,311.
 Tarnopol, Milton S.; and Snyder, Thomas P., 3,703,445.
 Temple, Chester S.; and Matthews, Jack R., 3,684,645.
 Tolliver, Richard J., 3,680,132.
 Vancamp, Raymond M.; Minor, Paul S.; and Muren, Albert P., Jr., 3,679,373.
 Vanderbilt, Byron M.; and Fasnacht, James J. (said Fasnacht assessor to), 3,674,542.
 Wagner, William E., 3,694,299.
 Ward, Cecil R., 3,637,063.
 Whittemore, Russell G., 3,659,079.
 Wiley, Daniel E.; Mc Dougall, Harmon A.; and Turner, Allan L., 3,642,053.
 Wiley, Daniel E., 3,655,787.
 Wiley, Daniel E.; McDougal, Harmon A.; and Turner, Allan L., 3,707,182.
 Wismer, Marco; and Prucnal, Paul J., 3,642,729.
 Wismer, Marco; and Prucnal, Paul J., 3,681,307.
 Wismer, Marco; and Bosso, Joseph F., 3,707,414.
 Yunker, Roy W., 3,634,058.
 Zawodniak, Rodger V., 3,638,225.
 Prab Conveyors, Inc.: See—
 Larson, Charles R.; and Dudley, Robert H., 3,656,620.
 Larson, Charles R.; and Dudley, Robert H., 3,679,051.
 Prachar, Otakar P.; and Shroat, Harold, to General Motors Corporation. Sensor. 3,631,728, 1-4-72, Cl. 73-492.
 Prachar, Otakar P., to General Motors Corporation. Sensor. 3,638,501, 2-1-72, Cl. 73-492.
 Prachar, Otakar P., to General Motors Corporation. Acceleration sensor. 3,662,606, 5-16-72, Cl. 73-514.
 Prachar, Otakar P., to General Motors Corporation. Multidirectional sensor. 3,703,102, 11-21-72, Cl. 73-514.000.
 Pracht, Gunter. Apparatus for the care of the body. 3,636,625, 1-25-72, Cl. 30-26.
 Practical Innovations, Inc.: See—
 Martensen, Lyle J., 3,674,503.
 Praddaude, Pierre A., to Societe Anonyme Poclair. Device for feeding pressurized fluid. 3,635,600, 1-18-72, Cl. 417-62.
 Praddaude, Pierre A., to Societe Anonyme Poclair. Hydraulic control device. 3,656,294, 4-18-72, Cl. 60-1.
 Praddaude, Pierre A., to Societe Anonyme Poclair. Hydraulic power transmissions. 3,664,127, 5-23-72, Cl. 60-53.
 Praddaude, Pierre A., to Societe Anonyme Poclair. Method for regulating the lifting of an arm articulated on a structure and lifting apparatus for carrying out this method. 3,679,179, 7-25-72, Cl. 254-93.00r.
 Prader, James Edward; and King, Harless W., II, to Ampex Corporation. Apparatus for splicing ends of magnetic tape of a cartridge with a metallic splice. 3,694,293, 9-26-72, Cl. 156-506.000.
 Pradt, Louis A.; Gitchel, Wayne B.; and Hoffman, Clarence A., to Sterling Drug Inc. Oxidation and reuse of pulping effluent from oxygen pulping of raw cellulose. 3,654,070, 4-4-72, Cl. 162-30.
 Pradt, Louis A., to Sterling Drug Inc. Wet air oxidation system for strong sludges and liquors. 3,661,778, 5-9-72, Cl. 200-63.
 Praetzel, Hans Eberhard; and Jenkner, Herbert. Shaped articles comprising self-extinguishing compositions of plastics and microcapsules containing flame-abating compounds and process for producing the same. 3,660,321, 5-2-72, Cl. 260-2.5fp.
 Praetzel, Hans Eberhard: See—
 Jenkner, Herbert; and Praetzel, Hans Eberhard, 3,658,754.
 Prager, Hans John: See—
 Chang, Kern Ko Nan; and Prager, Hans John, 3,649,881.
 Prager, Irwin A., to Uniroyal, Inc. Electrolytic process for the manufacture of azo compounds. 3,649,484, 3-14-72, Cl. 204-79.
 Prahacs, Steven; and Bhatia, Satya Pal, to Pulp and Paper Research Institute of Canada. Method of removing odoriferous sulphur compounds from vapours or gas streams. 3,701,824, 10-31-72, Cl. 423-225.000.
 Prael, Helmut F.; and Hart, Frederick M., to Dynatron Research Corporation. Polyolefin-starch. 3,704,271, 11-28-72, Cl. 260-17.4gc.
 Prael, Jan, to Teufel, Wilhelm Julius. Angular adjustment connector for prosthetic limb parts. 3,649,968, 3-21-72, Cl. 3-21.
 Prael, Marvin E., to International Business Machines Corporation. Container with brake for enclosed reel. 3,706,426, 12-19-72, Cl. 242-198.000.
 Prael, Walter H.; Eggert, Jay P.; Lederman, Sol J.; Scremin, Eric H.; and Ulrich, Albert C., to Hooker Chemical Corporation. Benzene oxychlorination. 3,644,542, 2-22-72, Cl. 260-650.
 Prael, Walter H.; and Lederman, Sol J., to Hooker Chemical Corporation. Crystallization of diphenylol alkanes. 3,673,262, 6-27-72, Cl. 260-619.00a.
 Praisler, Ladd C. Device for preventing mud or dirt splatter against windows and sides of a building. 3,662,503, 5-16-72, Cl. 52-97.000.
 Pramaggiore, Luigi. Electric fuse. 3,641,469, 2-8-72, Cl. 337-404.

Pramaggiore, Luigi. Electrical device for lighting cigars and cigarettes. 3,692,976, 9-19-72, Cl. 219-264.000.
 Pramuk, Edward M.: See—
 Juveland, Omar O.; and Pramuk, Edward M., 3,658,894.
 Prange, Arthur J., Jr.; Wilson, Ian C.; and Lipton, Morris A., to University of North Carolina, The. Antidepressant method and composition. 3,689,669, 9-5-72, Cl. 424-319.000.
 Prange, Bernard H.; and Gintert, Dean W., to PPG Industries, Inc. Method and apparatus for silk screening a pattern on an underlying substrate. 3,638,564, 2-1-72, Cl. 101-35.
 Prangle, Dale L.: See—
 Pronovost, Charles F.; and Prangle, Dale L., 3,670,936.
 Prangnell, Howard John: See—
 Mansfield, Michael Patrick; and Prangnell, Howard John, 3,691,467.
 Pranke, John A., to Theta-Com of California, mesne. Self-balancing push pull amplifier. 3,699,465, 10-17-72, Cl. 330-15.000.
 Prasad, Brijeshwari: See—
 Cushman, Glenn F.; Prasad, Brijeshwari; and Wisleder, Robert W., 3,641,563.
 Praschl, Wilhelm: See—
 Plasser, Franz; and Praschl, Wilhelm, 3,685,157.
 Prasil, Vladimir: See—
 Lutovsky, Josef; and Prasil, Vladimir, 3,640,059.
 Prasse, Herbert F., to Ramsey Corporation. Anti-emissions compression piston ring. 3,645,174, 2-29-72, Cl. 92-193.
 Prasse, Herbert F.; and McCormick, Harold E., to Ramsey Corporation. Piston with seal having high strength molybdenum alloy facing. 3,690,686, 9-12-72, Cl. 277-235.00a.
 Prasse, Herbert F.; and McCormick, Harold E., to Ramsey Corporation. Piston ring facings. 3,697,091, 10-10-72, Cl. 277-235.
 Prasse, Herbert F., to Ramsey Corporation. Method of making oil control piston rings. 3,698,054, 10-17-72, Cl. 29-156.630.
 Prasse, William A.: See—
 Osborn, Fredrick W.; Hedrick, Geoffrey S.; and Prasse, William A., 3,660,830.
 Prast, Gijsbert; and Rauwerdink, Hendrik Jan, to U.S. Philips Corporation. Cold-gas refrigerator, displacer seal to reduce frozen contaminants. 3,688,512, 9-5-72, Cl. 62-6.000.
 Prast, Gijsbert; and Hargreaves, Clifford McDonald, to U.S. Philips Corporation. Cryogenic refrigerator. 3,704,600, 12-5-72, Cl. 62-457.000.
 Prater, Charles. Camper. 3,684,048, 8-15-72, Cl. 180-89.000.
 Pratinidhi, Shrinivas V., to Fram Corporation. Flexible-bladed fan with extended blade structure. 3,639,078, 2-1-72, Cl. 416-132.
 Pratinidhi, Shrinivas V., to Fram Corporation. Flexible-bladed fan with improved reinforcing. 3,639,079, 2-1-72, Cl. 416-132.
 Pratley, Clifford, to Hobart Manufacturing Company, The. Food slicing machines. 3,704,736, 12-5-72, Cl. 146-102.00c.
 Prats, Michael: See—
 Chase, Curtis A., Jr.; and Prats, Michael, 3,690,167.
 Prats, Michael, to Shell Oil Company. Flood-aided hot fluid soak method for producing hydrocarbons. 3,707,189, 12-26-72, Cl. 166-263.000.
 Pratt & Whitney Inc.: See—
 Marsland, George H., 3,680,436.
 Parone, Anthony D., 3,634,943.
 Parone, Anthony D., 3,698,090.
 Yankee, Herbert L., 3,654,800.
 Pratt, Aloysius W., to Kohler Co. Fast response feedback controlled generator. 3,656,051, 4-11-72, Cl. 322-28.
 Pratt, Arnold T.: See—
 Seaton, William Joe; and Pratt, Arnold T., 3,665,462.
 Pratt, Chapin A.: See—
 Godwin, Gilbert Allan; and Pratt, Chapin A., 3,659,665.
 Pratt, Chapin A., to Howe Richardson Scale Company. Electrical weighing system with analog-to-digital ramp converter. 3,662,845, 5-16-72, Cl. 177-25.
 Pratt, Chapin A.; and Godwin, Gilbert A., to Richardson, Howe, Scale Company. Load cell weighing systems. 3,692,129, 9-19-72, Cl. 177-211.000.
 Pratt, Charles R.: See—
 Ragan, Lawrence H.; and Pratt, Charles R., 3,678,417.
 Pratt, David S.: See—
 Michle, James A.; Pratt, David S.; and Rees, Robert M., 3,675,204.
 Pratt, Donald P.: See—
 Di Laura, Arnold E.; and Pratt, Donald P., 3,697,082.
 Pratt, George W., Jr., to Massachusetts Institute of Technology. Multiple-frequency laser apparatus and method. 3,676,795, 7-11-72, Cl. 331-94.500.
 Pratt, Harold J., Jr.: See—
 Grace, Martin I.; and Pratt, Harold J., Jr., 3,673,510.
 Pratt, Henry, Company: See—
 Saar, Robert P., 3,693,647.
 Topinka, George F., 3,656,504.
 Pratt, Ivor: See—
 Hall, Roger P.; Pratt, Ivor; and Young, Richard A., 3,669,796.
 Pratt, Jack R. Safety switch. 3,681,610, 8-1-72, Cl. 307-10.00r.

Pratt, Jeffry Stuart Courtney, to Bell Telephone Laboratories, Incorporated. Method and medium for producing color images. 3,679,818, 7-25-72, Cl. 178-5.4cd.
 Pratt, John McDonald; and Whitear, Brian Ronald David, to Imperial Chemical Industries, Limited and Ifford Limited. Photosensitive element containing photolabile cobalt or iron complex and the use thereof in color development. 3,701,660, 10-31-72, Cl. 96-4.00r.
 Pratt, Leslie Raymond, to Churchill, Charles, Limited. Gear and profile rolling machines. 3,675,454, 7-11-72, Cl. 72-108.000.
 Pratt Manufacturing Corporation: See—
 Beaudoin, John F., 3,653,502.
 Pratt, Richard D., to General Electric Company. Corrugated arcuate member. 3,668,052, 6-6-72, Cl. 161-117.000.
 Pratt, Richard J.; and Young, David W., to Atlantic Richfield Company. Calcium sulphate scale inhibiting composition of salt of ester polymer of styrene-maleic anhydride copolymer. 3,650,970, 3-21-72, Cl. 252-181.
 Pratt, Robert A., to Clark Equipment Company. Truck to rail car transfer device and method. 3,635,362, 1-18-72, Cl. 214-38.
 Pratt, Ronald George; Willis, William; and Singleton, John Stephenson, to U.S. Philips Corporation. Electromechanical filters comprising input-output interdigital electrodes having differing amplitude and frequency characteristics. 3,688,223, 8-29-72, Cl. 33-72.000.
 Pratt, Thomas H.; and Rieger, Michael L. Refuse compactor. 3,669,009, 6-13-72, Cl. 100-52.000.
 Pratt-Johnson, William Henry: See—
 Organ, Terrence John; Alderman, Leslie; Melley, Arthur; and Pratt-Johnson, William Henry, 3,634,106.
 Pravaz, Marcel, to Etudes et Fabrications Aeronautiques. Quick-release connecting device for a parachute harness and a harness including said device. 3,692,263, 9-19-72, Cl. 244-151.00a.
 Pravaz, Marcel, to Etudes et Fabrications Aeronautiques. Parachute container and the application of the container to a parachute. 3,703,268, 11-21-72, Cl. 244-148.000.
 Praxedes Systems, Inc.: See—
 Conte, Alfred G., Jr.; and Reinert, Jeffrey Stanford, 3,666,926.
 Pray, Lawrence H. Hydraulic disc clutch. 3,684,069, 8-15-72, Cl. 192-85.0ca.
 Pray, Lester W.; and Zerfoss, Clinton C., to Maremont Corporation. Bobbin tube delivery means. 3,698,536, 10-17-72, Cl. 198-26.000.
 Prayer, Gerard; and Perrat, Jean-Marie, to Cebal GP. Easy opening lid for cans. 3,670,919, 6-20-72, Cl. 220-54.000.
 Prazak, Charles J., III, to Zenith Radio Corporation. Screening of black-surround color picture. 3,653,939, 4-4-72, Cl. 117-33.5.
 Prazak, Gerald: See—
 Falkebag, Sten I.; Moorer, Howard H.; Prazak, Gerald; and Bailey, Carl W., III, 3,672,817.
 Pre-Heat Welding Company, Inc.: See—
 Borkoski, Stanley B., 3,675,309.
 Pre-Load Company Inc., The: See—
 Heron, James, 3,640,038.
 Pre-Stress Concrete Inc.: See—
 Middleton, Thomas E., 3,654,027.
 Middleton, Thomas E., 3,693,310.
 Preble, Duane M.: See—
 Wires, Harold O.; Rickly, Samuel E.; Cox, Harold E.; and Preble, Duane M., 3,632,990.
 Precept, Incorporated: See—
 Tims, Jerry L.; and Hubbard, Vance M., 3,648,109.
 Precht, Horst; and Fastert, Herbert, to Concast Incorporated. Retractable dummy bar guide. 3,658,120, 4-25-72, Cl. 164-274.
 Precht, Walter: See—
 Hollox, Graham E.; Precht, Walter; Lye, Robert G.; and Westwood, Albert R. C., 3,661,599.
 Precisa A.G. Rechenmaschinenfabrik: See—
 Scheinhutte, Hans-Jurgen, 3,640,214.
 Precise Services, Inc.: See—
 Gagne, Oscar J., 3,661,030.
 Precision Dynamics Corporation: See—
 Monaghan, Frank; Mosher, Walter W., Jr.; and Long, Donald A., 3,680,194.
 Precision Extrusions, Inc.: See—
 Ziehm, Kurt F., Jr.; and Markiewicz, James E., 3,698,700.
 Precision Fukuhara Works, Ltd.: See—
 Kawase, Shinji; and Sumitomo, Norishige, 3,696,640.
 Sumitomo, Norishige, 3,696,641.
 Precision Instrument Company: See—
 Becker, Carl H.; Dell, Harold R.; French, Ballard D.; Hashiguchi, Masao; McFarland, Keith E.; and Wong, Herman, 3,654,624.
 Dell, Harold R.; Hashiguchi, Masao; and Lara, Edward D., 3,638,185.
 Herte, Lawrence; Softky, Sheldon D.; and Schoenberger, Nicholas D., 3,649,502.
 McFarland, Keith E.; Becker, Carl H.; Dell, Harold R.; Hashiguchi, Masao; Lara, Edward D.; and Wong, Herman, 3,657,707.
 Yarrington, Alfred R., 3,648,238.
 Precision Metalsmiths, Inc.: See—

- Horton, Robert A., 3,636,190.
Horton, Robert A.; and Coghill, Timothy L., 3,668,160.
Horton, Robert A., 3,686,006.
Horton, Robert A., 3,688,832.
Watts, Claude H., 3,705,615.
Precision Paper Tube Company: *See—*
Hatton, Richard L., 3,707,693.
Hilgers, Raymond H., 3,689,862.
Precision Plumbing Products, Inc.: *See—*
Perrott, Charles H.; and Watts, James B., 3,633,627.
Precision Products Company: *See—*
Johnston, Gerald T., 3,707,668.
Precision Sampling Corporation: *See—*
Harris, Rano J., Sr.; and Harris, Rano J., Jr., 3,677,448.
Harris, Rano J., Sr.; and Harris, Rano J., Jr., 3,707,239.
Precision Screen Machines, Inc.: *See—*
Jaffa, David, 3,685,085.
Precision Specialties, Inc.: *See—*
Baer, John S.; and Weatherby, John H., 3,685,622.
Precision Valve Corporation: *See—*
Feddern, Henry A.; and Sabol, John A., 3,638,795.
Focht, John Richard, 3,652,018.
Focht, John Richard, 3,669,359.
Precision-Cincinnati, Inc.: *See—*
Williams, Earl J.; and McLain, James E., 3,686,741.
Preco Inc.: *See—*
Erickson, John W., 3,648,623.
Konrad, Marion G.; Erickson, John W.; and Burnett, Frank, 3,636,887.
Konrad, Marion G.; and Erickson, John W., 3,641,942.
Salisbury, Robert E.; and Erickson, John W., 3,664,757.
Preddy, L. V., Jr., to Dye Trucking Company. Vehicle spring connector. 3,680,850, 8-1-72, Cl. 267-54.000.
Predecki, Paul K.: *See—*
Newkirk, John B.; Predecki, Paul K.; and Kirsch, Wolff M., 3,654,932.
Predicted Environments, Inc.: *See—*
McIntosh, Robert H.; and Hull, Ezekiel H., 3,705,235.
Predikant, Hans H. Hailer; Betz, Hermann; and Schaeffer, Johann, to Universal Oil Products Company, *mesne*. Process for purifying industrial waste gases containing fluorine values. 3,660,019, 5-2-72, Cl. 23-88.
Predmore, Walter L., Jr.: *See—*
Barkey, Kenneth T.; Hunter, C. Shelburn; and Predmore, Walter L., Jr., 3,644,573.
Preeman, Marvin B., to Standard Steel Corporation. Asphalt plant drier with variable lifters. 3,641,683, 2-15-72, Cl. 34-132.
Preen, Robert, to Dixon, T. H., & Company Limited. Machine for forming wound rolls of sheet material. 3,696,777, 10-10-72, Cl. 118-5.000.
Preese, Pat S.: *See—*
Barrett, Robert W.; and Preese, Pat S., 3,673,589.
Preformed Line Products Company: *See—*
D'Agati, John R., 3,664,010.
Minchak, Edward F., 3,699,592.
Ruhlman, Jon R., 3,691,773.
Smrekar, Clarence E., 3,662,084.
Williams, Harrison L.; and Smrekar, Clarence E., 3,633,252.
Pregaglia, Gianfranco: *See—*
Santangelo, Nicola; Battistoni, Giancarlo; Pregaglia, Gianfranco; Cavaterra, Enrico; and Croci, Mauro, 3,702,868.
Pregaglia, Gianfranco; Agamennone, Marco; Santangelo, Nicola; and Croci, Mauro, to Montecatini Edison S.p.A. Oxidation of olefins to unsaturated aldehydes and unsaturated acids. 3,637,834, 1-25-72, Cl. 260-533.
Pregaglia, Gianfranco; Agamennone, Marco; Santangelo, Nicola; and Matzuzi, Guglielmo, to Montecatini Edison S.p.A. Catalyst for the oxidation of olefins to unsaturated aldehydes and unsaturated acids. 3,660,480, 5-2-72, Cl. 260-533.
Pregaglia, Gianfranco; Agamennone, Marco; and Cavilli, Luigi, to Montecatini Edison S.p.A. Process for the preparation of 1,3,5-trioxane. 3,661,932, 5-9-72, Cl. 260-340.
Preger, Max: *See—*
Fritze, Hartwig; Eisenmann, Wolfhart; and Preger, Max, 3,664,033.
PREH Elektro-Feinmechanische Werke, Jakob Preh Nachf.: *See—*
Labude, Wolfgang; and Kohler, Josef, 3,641,471.
Schuberth, Christian; and Steigerwald, Wolf-Erhard, 3,668,600.
Preier, Horst M.: *See—*
Lehovec, Krut; Hielscher, Frank H.; and Preier, Horst M., 3,670,198.
Preikschat, Fritz K. Proportional bin level and flow control system. 3,653,543, 4-4-72, Cl. 222-52.
Preinfalk, Franz, to August Thyssen-Hütte Aktiengesellschaft. Rail brake. 3,633,710, 1-11-72, Cl. 188-62.
Preinfalk, Franz; Ulbricht, Dietmar; and Rohrsen, Friedrich, to August Thyssen-Hütte Aktiengesellschaft. Rubber track brake. 3,656,588, 4-18-72, Cl. 188-62.
Preinfalk, Franz; and Meuters, Gunther, to August Thyssen-Hütte Aktiengesellschaft. Deformable track brake. 3,703,943, 11-28-72, Cl. 188-62.000.
Preinfalk, Franz H., to August Thyssen-Hütte Aktiengesellschaft. Rubber track brake. 3,659,679, 5-2-72, Cl. 188-62.
Preininger, Erich; and Ging, Dieter, to Ciba-Geigy AB. Inorganic white pigments containing optical brighteners and process for their manufacture. 3,669,896, 6-13-72, Cl. 252-301.30w.
Preis, Vladimir Viktorovich: *See—*
Ioffe, Benjamin Alexandrovich; Kalnin, Robert Karlovich; Dorofeev, Vyacheslav Semenovich; Trushelis, Ivan Augustovich; Zheigur, Bruno Domenikovich; Rizhsky Raion, Salaspils; Ivanov, Anatoly Andreevich; and Preis, Vladimir Viktorovich, 3,661,298.
Ioffe, Benjamin Alexandrovich; Lapidus, Mikhail Khaimovich; Preis, Vladimir Viktorovich; Kalnin, Robert Karlovich; Sermons, Gunar Yanovich; Dorofeev, Vyacheslav Semenovich; Zheigur, Bruno Domenikovich; Shevchenko, Alexandr Alexandrovich; Denisov, Gennady Aexandrovich; Mikelson, Artur Eduardovich; and Makhlin, Aron Judovich, 3,662,302.
Preisendanz, Hans; and Schnegelsberg, Georg. Blast furnace tuyere. 3,693,961, 9-26-72, Cl. 266-41.000.
Preiser, Mark E., to General Motors Corporation. Apparatus and method for digital frequency addition and subtraction. 3,644,721, 2-22-72, Cl. 235-150.3.
Preiser, Mark E., to General Motors Corporation. Shut-off arrangement for the power controlled rectifiers of a DC to AC inverter. 3,681,675, 8-1-72, Cl. 321-5.000.
Preisinger, Franz; and Reichl, Ernst, to Gugelot Design GmbH. Apparatus for recovering liquids from liquid-containing solid materials of different consistencies, especially from fruits of any type. 3,635,151, 1-18-72, Cl. 100-127.
Preiskel, David. Bricklaying devices. 3,695,571, 10-3-72, Cl. 249-53.000.
Preisler, Eberhard; Frorath, Karl-Friedrich; and Strauss, Georg, to Knapsack Aktiengesellschaft. Process for the electrolytic production of manganese dioxide. 3,634,215, 1-11-72, Cl. 204-83.
Preisler, Samuel L. Skid-proof traction mat for automotive vehicles. 3,640,459, 2-8-72, Cl. 238-14.
Preiss, Richard B., to Tektronix, Inc. Data terminal-computer serial interface system having automatic baud rate switching. 3,696,338, 10-3-72, Cl. 340-172.500.
Preissinger, Heinz; and Simson, Reiner, to Siemens Aktiengesellschaft. Method of making impregnated capacitor. 3,648,339, 3-14-72, Cl. 29-25.42.
Preissinger, Karl-Heinz: *See—*
Behn, Reinhard; Preissinger, Karl-Heinz; and Simson, Reiner, 3,665,268.
Preiter, Alfred, to Grapha Maschinenfabrik Hans Muller AG. Tipping apparatus for a signature gathering machine. 3,663,007, 5-16-72, Cl. 270-55.000.
Prekel, Patricia A.: *See—*
Pappo, Raphael; and Prekel, Patricia A., 3,686,226.
Preko, Ing. F.: *See—*
Hjerpe, Gosta Curt, 3,633,499.
Prell, Raymond A.: *See—*
Ruf, Franz X.; Chase, Wayne R.; and Prell, Raymond A., 3,703,881.
Prelletz, Edward R.: *See—*
Cherniavskiy, Jaroslav; Prelletz, Edward R.; and Rucinski, Roland R., 3,666,205.
Prelletz, Edward R., to Bell & Howell Company. Film convolution retaining device. 3,693,907, 9-26-72, Cl. 242-197.000.
Prellwitz, Samuel B.; and Pysnik, Joseph, to United States Steel Corporation. Apparatus for measuring mass flow of fluid-borne solids. 3,635,082, 1-18-72, Cl. 73-194.
Preload Company, Inc.: *See—*
Closner, John J.; Schupack, Morris; and Marlowe, Eugene W., 3,633,328.
Shelander, Charles P., 3,638,431.
Prelog, Vladimir: *See—*
Gaumann, Ernst; Prelog, Vladimir; Bickel, Hans; and Vischer, Ernst, 3,634,407.
Prelude Corporation: *See—*
Whipple, William D.; and Gifford, Howard W., 3,689,974.
Prem, Lawrence L., to North American Rockwell Corporation. Energy conversion system utilizing exothermic reactions. 3,705,317, 12-5-72, Cl. 310-11.000.
Premium Forest Products Limited: *See—*
Stermac, Boris, 3,646,635.
Premo, Stanley D.: *See—*
Renner, Robert E.; and Premo, Stanley D., 3,633,739.
Premyslovsky, Jiri: *See—*
Bayer, Oldrich; Snasel, Josef; Premyslovsky, Jiri; and Smalcl, Frantisek, 3,704,654.
Prencio Manufacturing Co.: *See—*
Herman, James A., 3,670,666.
Prendergast, Anne M.: *See—*
Swaine, Robert L.; and Prendergast, Anne M., 3,632,354.
Prendergast, Charles Scott, to Cam Rotors Limited. Radial piston fluid pressure motor. 3,699,848, 10-24-72, Cl. 91-487.000.
Prendergast, Richard E.; and Rogers, Lawrence M., to Continental Can Company, Inc. Feed mechanism. 3,635,360, 1-18-72, Cl. 214-8.5.

- Prener, Jerome S.: *See—*
Kingsley, Jack D.; and Prener, Jerome S., 3,664,862.
Pregaman, Raymond David: *See—*
Newbury, Dale E.; and Pregaman, Raymond David, 3,706,605.
Prehnan A.G., *mesne*: *See—*
Johnson, Martin Robert, 3,673,821.
Prentice Corporation: *See—*
Elsenheimer, Charles W., 3,703,822.
Prentice, James B., to Procter & Gamble Company, The. Process for preparation of ethane-1-hydroxyl-1,1,2-triphosphonates from ethanecarbonyl-1,2-diphosphonates. 3,641,126, 2-8-72, Cl. 260-502.4.
Prentice, James B., to Procter & Gamble Company, The. Ethanecarbonyl-1,2-diphosphonic acid, water-soluble salts thereof and process for preparation. 3,670,015, 6-13-72, Cl. 260-52.40p.
Prentice, James S., to Esso Research and Engineering Company. Increasing strip tensile strength of melt blown nonwoven polypropylene mats of high tear resistance. 3,650,866, 3-21-72, Cl. 156-181.
Prentice, James S., to Esso Research and Engineering Company. Method of making a non-woven polymer laminate. 3,676,242, 7-11-72, Cl. 156-62.400.
Prentice, James S., to Esso Research and Engineering Company. Nonwoven polypropylene mats of increased strip tensile strength. 3,704,198, 11-28-72, Cl. 161-148.000.
Prentice, Russell E.: *See—*
Akin, Alfred A., Jr.; and Prentice, Russell E., 3,642,345.
Prentky, Peter I.: *See—*
Kurzweil, Fred, Jr.; Prentky, Peter I.; and Hasty, Charles E., 3,632,900.
Prentky, Peter I.; and Wilson, Alonzo A., to International Business Machines Corporation. Noise discriminator for digital data detection system. 3,665,327, 5-23-72, Cl. 328-163.000.
Preotle, John J., to General Motors Corporation. Air conditioner with rotatable snorkel. 3,665,726, 5-30-72, Cl. 62-262.
Prerovske strojirny, narodni podnik: *See—*
Kristek, Ladislav; Svizela, Antonin; and Hampel, Ivo, 3,633,744.
Pospisil, Jaroslav; and Plsek, Josef, 3,659,829.
Presby, Edwin E.: *See—*
Price, Kenneth E.; and Presby, Edwin E., 3,657,837.
Prescon Corporation, The, *mesne*: *See—*
Bickley, William Clyde, 3,665,747.
Prescott, Bernard Clark. Disc and sidebar cylinder lock. 3,695,073, 10-3-72, Cl. 70-366.000.
Prescott, Ernest F.; and Palmer, Donald R., to Elgin Sweeper Company. Street sweeper construction and lift mechanism. 3,634,900, 1-18-72, Cl. 15-84.
Prescott, Herbert L., to Westinghouse Electric Corporation. Motor operated tap changer employing contact drum switches. 3,663,951, 5-16-72, Cl. 323-43.5.
Prescott, Herbert L., to Westinghouse Electric Corporation. Phase-angle regulator. 3,690,739, 9-12-72, Cl. 323-43.50r.
Prescott, Paul I.: *See—*
Morris, Horton H.; Olivier, James P.; and Prescott, Paul I., 3,697,474.
Morris, Horton H.; and Prescott, Paul I., 3,697,475.
Prescott, Robert C.: *See—*
Beardsley, Earl A.; Bowditch, Hoel L.; and Prescott, Robert C., 3,680,580.
Prescott, Robert E.: *See—*
Nash, Donald H.; Nenninger, Theodore P.; and Prescott, Robert E., 3,676,607.
Prescott, Robert S., to Honeywell Inc. Two channel read amplifier. 3,673,507, 6-27-72, Cl. 330-30.00r.
Prescott, Roger, to Great Lakes Carbon Corporation. Composites and intermediates therefor. 3,671,285, 6-20-72, Cl. 117-75.000.
Preslar, Donald Ray: *See—*
Stewart, Neil Rutherford; and Preslar, Donald Ray, 3,643,156.
Presley, C. T.: *See—*
Argabright, Perry A.; Hummel, Jack L.; and Presley, C. T., 3,705,627.
Presley, C. Travis: *See—*
Argabright, Perry A.; and Presley, C. Travis, 3,682,245.
Argabright, Perry A.; Presley, C. Travis; and Bixel, Harold C., 3,695,356.
Presley, C. Travis; and Argabright, Perry A., to Marathon Oil Company. Mobility control by partial plugging of formations. 3,684,011, 8-15-72, Cl. 166-270.000.
Presley, Wayne E.: *See—*
Hairston, Thomas J.; Presley, Wayne E.; and Edwards, Stephen P., 3,649,572.
Presman, Vladimir Alexandrovich: *See—*
Rubinshtein, Sholom Yakovlevich; Babin, Mikhail Artemievich; Gutman, Anatoly Lvovich; Naumenko, Viktor Dmitrievich; Orlov, Evgeny Mikhailovich; Presman, Vladimir Alexandrovich; Maev, Veniamin Evnovich; and Bondarenko, Fedor Alexeevich, 3,678,664.
Presnick, Michael C.; Penn, Everett; and Piorek, John, to Olympian Scoreboard Division, Metatronics Manufacturing Corporation. Battery operated scoreboard. 3,683,357, 8-8-72, Cl. 340-323.000.
Presnyakov, Alexandr Alexandrovich: *See—*
Novikov, Alexei Viktorovich; Fridman, Lev Petrovich; Zinkovsky, Viktor Antonovich; Denisov, Vladimir Ivanovich; Fisenko, Konstantin Vitalievich; Rattenberg, Vadim Nikolaevich; and Presnyakov, Alexandr Alexandrovich, 3,683,998.
Presnyakov, Gennady Stepanovich: *See—*
Galutva, Gennady Vasilievich; Ryazantsev, Alek Isosifovich; Presnyakov, Gennady Stepanovich; and Modestov, Jury Konstantinovich, 3,684,904.
Press, Irving D.; and Heigis, Henry E., to Resistoflex Corporation. High pressure chemically resistant bellows. 3,633,945, 1-11-72, Cl. 285-226.
Press, Irving D., to Resistoflex Corporation. Expanding tool. 3,641,798, 2-15-72, Cl. 72-122.
Press, Irving D., to Resistoflex Corporation. Double action fluid valve. 3,683,954, 8-15-72, Cl. 137-269.000.
Press, Meyer; Teixeira, James F.; and Wolff, Gerald, to GTE Sylvania Incorporated. Transistorized load control circuit. 3,633,051, 1-4-72, Cl. 307-296.
Press, Meyer, to GTE Sylvania Incorporated. Transistorized load control circuit comprising high and low parallel voltage sources. 3,636,381, 1-18-72, Cl. 307-296.
Press Systems, Inc., *mesne*: *See—*
Wrona, Theodore J., 3,662,640.
Press- und Stanzwerk Paul Craemer KG: *See—*
Ditges, Ernst, 3,700,205.
Pressau, Jean P.: *See—*
Gillery, Frank H.; and Pressau, Jean P., 3,655,545.
Pressed Steel Fisher, Limited: *See—*
Shayler, Victor James; and Wells, Gordon Arthur Leslie, 3,657,401.
Presser, Adolph, to RCA Corporation. Variable tuning arrangement for a strip transmission line circuit. 3,693,118, 9-19-72, Cl. 337-107.00g.
Pressley, Arther Mitchell: *See—*
Goodbar, Reid C.; and Pressley, Arther Mitchell, 3,703,073.
Pressman, Gerald L.; and Kittredge, Thomas D., to Electroprint, Inc., *mesne*. Apparatus for aperture controlled electrostatic image reproduction or constitution. 3,647,291, 3-7-72, Cl. 355-3.
Pressman, Gerald L.; and Casanova, John V., to Electro Print Inc. Electrostatic line printer. 3,689,935, 9-5-72, Cl. 346-74.0es.
Pressman, Gerald L., to Electroprint, Inc. Electrostatic modulator for controlling flow of charged particles. 3,694,200, 9-26-72, Cl. 96-1.00r.
Pressman, Gerald L.; and Kittredge, Thomas D., to Electroprint, Inc., *mesne*. Apparatus for aperture controlled electrostatic image color reproduction or constitution. 3,697,164, 10-10-72, Cl. 355-4.000.
Pressman, Jerome. Dynamic Mobius band. 3,648,407, 3-14-72, Cl. 46-243.
Pressman, Jerome. Educational toy balloon systems. 3,693,266, 9-26-72, Cl. 35-19.00r.
Pressman, Sidney, to Current Industries, Incorporated. Mercury vapor lamp with auxiliary light source. 3,694,692, 9-26-72, Cl. 315-154.000.
Presson, Robert D.: *See—*
Callahan, James L.; Presson, Robert D.; and Miller, Arthur F., 3,658,877.
Veatch, Franklin; Milberger, Ernest C.; and Presson, Robert D., 3,657,015.
Pressure Chemical Co.: *See—*
King, Robert Bruce; and Kapoor, Pramesh N., 3,657,298.
Pressweld Limited: *See—*
Crompton, Geoffrey, 3,663,065.
Prest, Robert J., to Technical Operations, Incorporated. Cable drive assembly. 3,690,529, 9-12-72, Cl. 226-76.000.
Presti, Charles Lo, to Carborundum Company, The. Belt grinding machines and platen therefor. 3,686,798, 8-29-72, Cl. 51-138.000.
Prestiniz, Pete: *See—*
Macey, James G., 3,647,367.
Preston, Birgit: *See—*
Tracy, Richard A., 3,687,216.
Preston, Edward G., to Molins Limited. Continuous rod making machines. 3,667,587, 6-6-72, Cl. 198-25.000.
Preston, Edward George: *See—*
Powell, Gordon Francis Wellington; and Preston, Edward George, 3,699,974.
Preston Engravers, Inc.: *See—*
Kesten, Martin; and O'Connor, Ralph Bruce, 3,698,271.
Kesten, Martin; and O'Connor, Ralph Bruce, 3,698,272.
Preston, George A.: *See—*
Giardini, Dante S.; Preston, George A.; and Roney, Richard N., 3,640,163.
Preston, Harold M.: *See—*
Jachimowicz, George A.; Minatelli, Mark A.; and Preston, Harold M., 3,666,695.
Preston, Jack: *See—*
Tommaney, Joseph W.; and Preston, Jack, 3,687,187.
Preston, Jack, to Monsanto Company. Aromatic polyamide-hydrazides. 3,632,548, 1-4-72, Cl. 260-32.6.

- Preston, Jerome A., to Essex International, Inc. Resinous composition for coating electric conductors. 3,632,440, 1-4-72, Cl. 117-218.
- Preston, Jerome A., to Owens-Corning Fiberglas Corporation. Method of dispersing reaction of organosilane and polyolefin. 3,644,141, 2-22-72, Cl. 117-126.
- Preston, Jerome A.; and Davis, Carlton J., Sr., to Owens-Corning Fiberglas Corporation. Reaction product of hydrolyzed siloxane and an imine polymer and glass strands coated therewith. 3,664,982, 5-23-72, Cl. 260-29.4.
- Preston, Jerome A., to Essex International, Inc. Siliated polyhydantoin, polyester hydantoin siloxanes and polyhydantoin amide siloxanes for use as wire coatings. 3,681,282, 8-1-72, Cl. 260-46.50e.
- Preston, Jerome A., to Essex International, Inc. Wire conductor having a resin coating modified with amine-silicone reaction product. 3,686,030, 8-22-72, Cl. 117-232.000.
- Preston, Jerome A.; and Davis, Carlton J., Sr., to Owens-Corning Fiberglas Corporation. Material for bonding resins to glass fibers and composites made therefrom. 3,705,125, 12-5-72, Cl. 260-37.00n.
- Preston, John: *See—*
Eanzel, Albert R.; and Preston, John, 3,657,173.
- Preston, John M. Tin immersion plating bath and method. 3,689,292, 9-5-72, Cl. 106-1.000.
- Preston, John P.: *See—*
Alpert, Marshall B.; and Preston, John P., 3,632,527.
- Preston, Kendall, Jr., to Perkin-Elmer Corporation, The. Method and apparatus for optical speech correlation. 3,636,261, 1-18-72, Cl. 179-1.
- Preston, Kendall, Jr., to Perkin-Elmer Corporation, The. Optical correlator. 3,641,355, 2-8-72, Cl. 250-229.
- Preston, Leslie Raymond; Pope, Victor James; Stagg, John; and Green, Ronald Sydney, to Grace, W. R., & Co. Packing apparatus. 3,681,177, 8-1-72, Cl. 156-583.000.
- Preston, Mark, to Litton Business Systems, Inc. Self cleaning dielectric heater. 3,652,816, 3-28-72, Cl. 219-10.61.
- Preston, Norman H., to Burroughs Corporation. Pack holder-refold stand. 3,692,189, 9-19-72, Cl. 211-134.000.
- Prete, Ernest, Jr., to Ankra Corporation. Anchor fitting for retaining articles in a retainer track. 3,677,195, 7-18-72, Cl. 105-369.00a.
- Prete, Ernest, Jr., to Ankra Corporation. Cam buckle. 3,678,542, 7-25-72, Cl. 24-191.000.
- Prete, John A.; and Raudat, John L., to Emhart Corporation. Apparatus for simultaneously loading groups of articles into packing cases. 3,673,756, 7-4-72, Cl. 53-61.000.
- Pretorius, Victor; and Hahn, Hans Helmut. Detection in chromatography. 3,649,498, 3-14-72, Cl. 204-180.
- Pretorius, Victor; and Hahn, Hans Helmut. Chromatographic separation. 3,694,335, 9-26-72, Cl. 204-180.00g.
- Pretorius, Victor; and Hahn, Hans Helmut. Relating to three-dimensional chromatographic systems. 3,703,798, 11-28-72, Cl. 55-67.
- Preu, Hans L., to American Hoist & Derrick Company. Articulated linkage connection for an excavating machine. 3,704,534, 12-5-72, Cl. 37-83.000.
- Preud'Homme, Jean: *See—*
Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,657,420.
- Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,658,987.
- Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,682,886.
- Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,686,396.
- Preus, Paul; and Gallagher, John J. Convertible barrier for substances floating on water. 3,667,235, 6-6-72, Cl. 61-1.
- Preusch, William J.: *See—*
Reiner, Joel Russell; Preusch, William J.; and Davenport, William G., 3,640,233.
- Reiner, Joel Russell; Preusch, William J.; and Davenport, William G., 3,707,130.
- Preuss, Friedrich, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Clamping device for clamping a printing plate upon a cylinder of a printing press. 3,658,002, 4-25-72, Cl. 101-415.1.
- Preuss, Friedrich; and Alix, Hans, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Dampening device for a printing press. 3,688,694, 9-5-72, Cl. 101-148.000.
- Preuss, Hans W.: *See—*
Festner, Theodor; Litwin, Theodore J.; and Preuss, Hans W., 3,702,796.
- Preuss, Heinz. Device for reducing the supersonic boom caused by aircraft. 3,655,147, 4-11-72, Cl. 244-1.
- Preusser, Gerhard; Schulze, Martin; and Richter, Klaus, to Koppers, Heinrich, Gesellschaft mit beschränkter Haftung. Process for separating saturated hydrocarbons and olefins. 3,673,081, 6-27-72, Cl. 208-313.000.
- Preusser, Gerhard; Schulze, Martin; and Richter, Klaus, to Heinrich Koppers Gesellschaft mit beschränkter Haftung. Process for recovering highly pure aromatic substances from hydrocarbon mixtures containing both aromatic and non-aromatic substances. 3,679,79, 7-25-72, Cl. 208-323.000.
- Preux, Roger G. Switching device with moving parts in the form of a cross. 3,652,962, 3-28-72, Cl. 335-203.
- Prevorsek, Dusan C.: *See—*
Lamb, George E. R.; Prevorsek, Dusan C.; and Oswald, Hendrikus J., 3,634,163.
- Lamb, George E. R.; Prevorsek, Dusan C.; Kotliar, Abraham M.; and Oswald, Hendrikus J., 3,705,074.
- Prevorsek, Dusan C.; Li, Hsin L.; Koch, Paul J.; Oswald, Hendrikus J.; and Schmitt, George J., to Allied Chemical Corporation. Thermosetting laminates. 3,690,980, 9-12-72, Cl. 156-199.000.
- Prevorsek, Dusan Ciril: *See—*
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- Prevorsek, Metka: *See—*
Evans, George L.; Kronish, Donald P.; Prevorsek, Metka; Schwartz, Benjamin S.; and Zuriif, Lee S., 3,649,461.
- Prevot, Rene, to Eastman Kodak Company. Process for applying a magnetic track directly on an anti-halation backing of a cinematographic film. 3,647,541, 3-7-72, Cl. 117-239.
- Prevot Stephane: *See—*
Westcott, Vernon C.; Blanchard, Byron E.; Davis, Paul A.; and Prevot Stephane, 3,678,742.
- Prew, Lionel R.: *See—*
Hendal, Willem P.; and Prew, Lionel R., 3,659,817.
- Prew, Stanley R.; and Clark, Llewelyn E., to Beloit Corporation. Noise suppressing baffle discharge exit. 3,687,360, 8-29-72, Cl. 233-46.000.
- Preway Inc.: *See—*
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- Derringer, Ray, 3,672,349.
- Prewett, Hubert P., Jr.; and Thompson, Charles H., to United States of America, Atomic Energy Commission. Automatic spindle growth compensation system. 3,672,246, 6-27-72, Cl. 82-2.00b.
- Preysch, Fritz, to Rieter Machine Works, Ltd. Process for changing supply spools and finish wound cops on draw-twisting and draw-winding machines. 3,673,784, 7-4-72, Cl. 57-156.000.
- Prezewowsky, Klaus; and Wiechert, Rudolf. Preparation of Δ^6 -17 ethinyl steroids. 3,682,983, 8-8-72, Cl. 260-397.300.
- Prial, Gerard; and Pigulski, Chester J. Bilge cleaner composition. 3,681,264, 8-1-72, Cl. 252-526.000.
- Prial, Peter J. Firemens wrench-like tool. 3,641,846, 2-15-72, Cl. 81-90.
- Pribil, Rudolf: *See—*
Emr, Antonin; and Pribil, Rudolf, 3,669,988.
- Priborsky, Godfrey M.: *See—*
Marion, Thomas E.; and Priborsky, Godfrey M., 3,703,066.
- Pribyl, Edward Joseph: *See—*
Fried, Josef; Pribyl, Edward Joseph; and Krapcho, John, 3,652,658.
- Price, Albert E.; and Mowatt-Larssen, Erling, to General American Transportation Corporation. Support structure for tank car. 3,662,692, 5-16-72, Cl. 105-358.
- Price, Albert E.; and Mansen, Robert L., to General American Transportation Corporation. Railway tank car heating arrangement. 3,685,458, 8-22-72, Cl. 105-358.000.
- Price, Alson K.: *See—*
Anello, Louis G.; Boghosian, Edward Michael; Jones, Edward S.; Minhas, Pritam S.; Price, Alson K.; and Sweeney, Richard F., 3,641,083.
- Anello, Louis G.; Boghosian, Edward Michael; Jones, Edward S.; Minhas, Pritam S.; Price, Alson K.; and Sweeney, Richard F., 3,651,105.
- Sweeney, Richard F.; and Price, Alson K., 3,642,880.
- Sweeney, Richard F.; Price, Alson K.; and Khan, Aziz U., 3,644,513.
- Sweeney, Richard F.; and Price, Alson K., 3,651,069.
- Sweeney, Richard F.; Khan, Aziz Urrehman; Price, Alson K.; Jones, Edward Stephen; and Otto, Julian A., 3,674,800.
- Sweeney, Richard F.; and Price, Alson K., 3,681,413.
- Price, Alson K.; and Sukornick, Bernard, to Allied Chemical Corporation. Polyfluoroalkoxyalkyl pyridinium salts. 3,674,798, 7-4-72, Cl. 260-297.00r.
- Price, Alson Kay: *See—*
Khan, Aziz Urrehman; Price, Alson Kay; and Sweeney, Richard F., 3,651,073.
- Price, Carl. Pump impeller housing with integral flow regulator. 3,698,832, 10-17-72, Cl. 415-148.000.
- Price, Charles E. Fluid flow control device. 3,680,574, 8-1-72, Cl. 137-81.500.
- Price, Charles W. Directional warning device for slow moving vehicles. 3,633,161, 1-4-72, Cl. 340-133.
- Price Company Limited, The: *See—*
Vessie, Alexander McIntosh, 3,690,923.
- Price, Daniel J. Bearing grinding machine. 3,641,716, 2-15-72, Cl. 51-241.
- Price, David B., to Westinghouse Electric Corporation. Base containing an electric heater element and an automatic temperature con-

- trol for supporting glass or ceramic cookware. 3,666,920, 5-30-72, Cl. 219v449.
- Price, David D., Jr.: *See—*
De Bell, Lawrence R.; and Price, David D., Jr., 3,691,314.
- De Bell, Lawrence R.; and Price, David D., Jr., 3,705,271.
- Price, Desmond Alfred: *See—*
Pacini, Bruno Marcio; Price, Desmond Alfred; and Parikh, Anil Chandrakant, 3,675,408.
- Price, Duane L. Water meter freeze protector. 3,648,520, 3-14-72, Cl. 73-277.
- Price, Edgar E. Electro-optical display system. 3,699,242, 10-17-72, Cl. 178-5.4bd.
- Price, Edward W., to United States of America, Navy. Igniter-attenuator device for attenuating combustion instability in rocket motors. 3,665,706, 5-30-72, Cl. 60-39.72p.
- Price, Frank B.: *See—*
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- Price, Franklin Carr. Tuyere assembly. 3,672,648, 6-27-72, Cl. 263-21.00a.
- Price, Franklin Carr. Method and apparatus for scrubbing gases. 3,676,982, 7-18-72, Cl. 55-95.000.
- Price, Frederick William; and Williams, Derek, to Simms Motor Units Limited. Governor devices. 3,643,514, 2-22-72, Cl. 73-530.
- Price, George E., to Pacific Coast Pipe Limited, mesne. Wood truss arrangement. 3,702,050, 11-7-72, Cl. 52-693.000.
- Price, Glenn R.; and Walsh, Edward N., to Stauffer Chemical Company. Phosphorylated heterocyclic compounds as herbicides. 3,666,435, 5-30-72, Cl. 71-87.000.
- Price, H. C., Co.: *See—*
Elliott, Bernard V., 3,700,223.
- Harris, Robert J.; and Lee, Irvin J., 3,674,546.
- Versoy, Harry N.; and Harris, Robert J., 3,661,624.
- Price, Harold J.; and Snyder, Robert M., to Oceanography Development Corporation. Navigation system. 3,687,556, 8-29-72, Cl. 356-152.000.
- Price, Harold M.: *See—*
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- Price, Herbert K., to Reynolds Metals Company. Method of making a composite board product from scrap materials. 3,671,615, 6-20-72, Cl. 264-39.000.
- Price, Herbert K., to Reynolds Metals Company. Method for forming a matte finish on a surface. 3,690,985, 9-12-72, Cl. 156-254.000.
- Price, Howard; Wallick, Seymour; and Math, Irwin, to International Patents & Development Corporation. Refuse compactor. 3,638,561, 2-1-72, Cl. 100-215.
- Price, James H. Job site apparatus for horizontally pouring and vertical stocking of thin slabs. 3,640,658, 2-8-72, Cl. 25-1.
- Price, James W.: *See—*
Knudsen, Raymond G.; Price, James W.; and Olson, Gene E., 3,675,516.
- Price, John A.: *See—*
Stewart, Mary J.; and Price, John A., 3,634,357.
- Stewart, Mary J.; and Price, John A., 3,640,964.
- Stewart, Mary J.; and Price, John A., 3,644,292.
- Stewart, Mary J.; and Price, John A., 3,644,295.
- Price, John A.; and Stewart, Mary J., to FMC Corporation. Polyester condensation process using alkali metal germanates. 3,635,900, 1-18-72, Cl. 260-75.
- Price, John A.; and Stewart, Mary J., to FMC Corporation. Titanium compounds as polycondensation catalysts in preparation of linear polyesters. 3,644,291, 2-22-72, Cl. 260-75.
- Price, John A.; and Stewart, Mary J., to FMC Corporation. Polyesters stabilized with ammonium hexafluorophosphate fluoride, tripropylammonium dihydrogen phosphate, and tetramethylammonium hexafluorophosphate. 3,661,842, 5-9-72, Cl. 260-45.9.
- Price, John A.; and Stewart, Mary J., to FMC Corporation. Zinc and manganese gentisate as polyester catalysts and molecular weight enhancer. 3,673,157, 6-27-72, Cl. 260-75.00r.
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- Price, John A.; and Stewart, Mary J., to FMC Corporation. Deep dyeable copolyester resins. 3,700,644, 10-24-72, Cl. 260-75.00n.
- Price, John H. Method and means for cutting trees. 3,635,269, 1-18-72, Cl. 144-309.
- Price, John R., to Leigh Products, Inc. Pegboard hook for alternate thickness pegboards. 3,664,625, 5-23-72, Cl. 248-223.
- Price, Kenneth E.; and Presby, Edwin E., to Rainbow Lifeguard Products, Inc. Fishing float construction. 3,657,837, 4-25-72, Cl. 43-43.1.
- Price, Kenneth R., to Huyck Corporation. Industrial conveyor belts. 3,664,907, 5-23-72, Cl. 161-89.000.
- Price, Lawrence, to Scott Paper Company. Furfurylidene-lower haloalkane photosensitive composition containing arylamino disulfide. 3,649,284, 3-14-72, Cl. 96-90.
- Price, Leonard W.: *See—*
Goldin, Morris; and Price, Leonard W., 3,667,147.
- Price, Lorenzo S., to Guth, Edwin F., Company, The. Illumination. 3,693,045, 9-19-72, Cl. 315-91.000.
- Price, Michael Stuart Thomas: *See—*
Gough, John Richard Cox; Meaden, Geoffrey William; and Price, Michael Stuart Thomas, 3,668,284.
- Price, Norman L.: *See—*
Olson, John E.; Bostad, Wayne W.; and Price, Norman L., 3,670,626.
- Price, Oscar La Rue, to Du Pont de Nemours, E. I., and Company. Tow crimping apparatus. 3,633,255, 1-11-72, Cl. 28-1.6.
- Price, Paul B.: *See—*
Alter, Henry Ward; and Price, Paul B., 3,665,194.
- Fleischer, Robert L.; and Price, Paul B., 3,677,844.
- Price, Ralph E., to Landis Tool Company, mesne. Grinding wheel advancing apparatus. 3,636,664, 1-25-72, Cl. 51-165.9.
- Price, Ralph E.; and Gebel, Kurt M., to Landis Tool Company, mesne. Slide fender with formed flexible protector. 3,653,164, 4-4-72, Cl. 51-268.
- Price, Ralph E., to Landis Tool Company, mesne. Means for adjusting the angular relation between a workpiece to be ground and a tool. 3,690,072, 9-12-72, Cl. 51-165.00r.
- Price, Raymond E.; and Tirrell, Clifford F., to Grace, W. R., & Co. Closure arresting device. 3,639,968, 2-8-72, Cl. 29-211.
- Price, Raymond E.; Tirrell, Clifford F.; Adams, Richard C.; and George, Robert W. Self-adjusting cut-off knife. 3,702,103, 11-7-72, Cl. 113-114.0be.
- Price, Richard Thompson; Bauer, Stuart Michael; Brownlee, John; and Goberde, Bastiaan Cornelis, to Organon, Inc. Method of pelleting analytical or immunological reagents. 3,655,838, 4-11-72, Cl. 264-13.
- Price, Richard Thompson, to Organon, Inc. Diagnostic test slide. 3,666,421, 5-30-72, Cl. 23-253.0tp.
- Price, Rita L. Protective apron for container. 3,693,829, 9-26-72, Cl. 220-90.000.
- Price, Robert H., to Control Data Corporation. Foil bearing control apparatus. 3,701,135, 10-24-72, Cl. 340-174.10e.
- Price, Vernon G.; and Grow, Richard W., to United States of America, Atomic Energy Commission. Compact high-power broadband radio-frequency load termination. 3,641,465, 2-8-72, Cl. 333-22.
- Price, Warren H.: *See—*
Enters, Edward W.; Price, Warren H.; Davies, John W., III; and Hochwitz, Lynn E., 3,678,770.
- Price, Warren H., to Gilson Bros. Co. Adjustable wheel bracket assembly. 3,649,828, 3-14-72, Cl. 250-43.17.
- Price, William C.: *See—*
Carlson, Carl B.; McKeeman, William M.; and Price, William C., 3,699,528.
- Price, William Chandler; and Billard, Stephen Lane, to Burroughs Corporation. Digital computer with a program-trace facility. 3,659,272, 4-25-72, Cl. 340-172.5.
- Price, William Chandler; Hauck, Erwin A.; and Vigil, Jacob F., to Burroughs Corporation. Apparatus for interrogating the availability of a communication path to a peripheral device. 3,693,161, 9-19-72, Cl. 340-172.500.
- Price, William H.: *See—*
Straw, Kimball; and Price, William H., 3,649,101.
- Price, William H., to Eastman Kodak Company. Folded path zoom lens. 3,658,411, 4-25-72, Cl. 350-184.
- Price, William H., to Eastman Kodak Company. Modified triplets with reduced secondary spectrum. 3,694,057, 9-26-72, Cl. 350-227.000.
- Price, William R.: *See—*
Buschman, Elmer W., 3,678,653.
- Price-Pfister Brass Mfg., Co.: *See—*
Iolnai, Julius L.; and Palmer, Patsy B., 3,693,663.
- Lyon, John K., 3,661,180.
- Lyon, John K., 3,675,682.
- Lyon, John K., 3,706,324.
- Palmer, Patsy B.; and Iolnai, Julius L., 3,661,181.
- Rokitenetz, Walter, 3,646,619.
- Ross, Louis E.; Lyon, John K.; and Paolucci, Julius J., 3,646,967.
- Pricer, W. David: *See—*
Beausoleil, William F.; Ho, Irving T.; Jen, Teh-Sen; and Pricer, W. David, 3,697,962.
- Bossen, Douglas C.; Henle, Robert A.; Hsiao, Mu Y.; Maley, Gerald A.; and Pricer, W. David, 3,675,200.
- Pricer, Wilbur D.: *See—*
Beausoleil, William F.; Ordemann, Fred A., Jr.; Pricer, Wilbur D.; and Vogl, Norbert G., Jr., 3,648,255.
- Pricer, Wilbur David: *See—*
Castrucci, Paul P.; Gates, Harlan R.; Henle, Robert A.; Pricer, Wilbur David; Morton, Robert M.; Mason, John W.; and North, William D., 3,641,516.
- Prichard, Evan S., to Challenge-Cook Bros., Incorporated. Concrete transit mixer with forward discharge mechanism. 3,633,879, 1-11-72, Cl. 259-172.
- Prichard, John P.: *See—*
Long, William D.; Fell, Ferol S.; Wells, Bernard L.; and Prichard, John P., 3,670,590.

Prichard, William W., to Du Pont de Nemours, E. I., and Company. Preparation of acyl fluorides by carbonylation of aromatic halides in the presence of an alkali metal fluoride and a ruthenium-rhodium- or palladium-containing catalyst. 3,632,643, 1-4-72, 1. 260-544.

Prichard, William W., to Du Pont de Nemours, E. I., and Company. Catalytic preparation of chloroacid chlorides. 3,681,449, 8-1-72, Cl. 260-544.00a.

Prickett, Warren Wilson: *See—*
Harker, Royce Kenneth; Prickett, Warren Wilson; and Roesch, Kurt Fritz, 3,669,323.

Priddy, Duane B.: *See—*
Hennis, Henry E.; and Priddy, Duane B., 3,636,109.

Pride, Emanuel; and Warren, Brian, to Abbott Laboratories. Method of determining haemoglobin. 3,677,707, 7-18-72, Cl. 23-230.00b.

Pridgen, Herman S.: *See—*
Weaver, Max A.; and Pridgen, Herman S., 3,639,384.
Weaver, Max A.; and Pridgen, Herman S., 3,639,385.
Weaver, Max A.; Pridgen, Herman S.; and Coates, Clarence A., Jr., 3,640,995.
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Pridham, David I. Friction resistance exerciser. 3,650,531, 3-21-72, Cl. 272-79.

Pridham, Ernest R.: *See—*
Smith, Benjamin C.; and Pridham, Ernest R., 3,635,149.

Priebe, Edmund: *See—*
Mittnacht, Hans; and Priebe, Edmund, 3,691,260.

Priebe, Frank K., to United States of America, Army. Monolithic coupled crystal resonator filter having cross impedance adjusting means. 3,686,592, 8-22-72, Cl. 333-71.000.

Priebe, Fritz, to Schloemann Aktiengesellschaft. Hydraulic sheet-stretching machines. 3,685,333, 8-22-72, Cl. 72-302.000.

Priede, Bruno Andreevich: *See—*
Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupskis, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leenieux, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreevich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.

Priefert, Marvin J. Cattle chute. 3,683,864, 8-15-72, Cl. 119-99.000.

Priem, Jan Jozef: *See—*
Van Paesschen, August Jean; and Priem, Jan Jozef, 3,632,534.
Van Paesschen, August Jean; and Priem, Jan Jozef, 3,635,713.
Van Paesschen, August Jean; Van Gossum, Lucien Janbaptist; and Priem, Jan Jozef, 3,649,336.

Prier, Erich: *See—*
Stauff, Emil; Guillot, Jean; Allard, Pierre; Schubert, Johannes; Topfer, Heinz; and Prier, Erich, 3,653,288.

Pries, Erich E. W., to Otto, Dr., C., & Comp. G.m.b.H. Charging car for coke ovens. 3,672,519, 6-27-72, Cl. 214-35.00r.

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Priemsmuth, Wolfgang. Diaphragm relay. 3,681,720, 8-1-72, Cl. 335-61.000.

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Priessnetz, Edmund F.; and Scott, Raymond, to Electronic Transmission Systems, Inc. Optical system for facsimile scanners and the like. 3,684,889, 8-15-72, Cl. 250-216.000.

Priest, Edward D., to Parker Manufacturing Company. Shear stop. 3,681,844, 8-8-72, Cl. 30-266.000.

Priest, Ernest H.; and Priest, Gordon M. Pumping a high or low temperature fluid. 3,666,375, 5-30-72, Cl. 415-112.

Priest, Gordon M.: *See—*
Priest, Ernest H.; and Priest, Gordon M., 3,666,375.

Priest, John G.: *See—*
Keeling, Robert A.; and Priest, John G., 3,660,196.

Priest, Melvin E., to Deere & Company. Spray type row crop thinner. 3,701,218, 10-31-72, Cl. 47-1.430.

Priest, Wayne A.: *See—*
Schumann, Robert J.; and Priest, Wayne A., 3,663,826.

Priest, Wayne A.; and Weigand, Arthur D., to Dutton-Lainson Company. Transmission and coil brake for winches. 3,687,249, 8-29-72, Cl. 192-4.00r.

Priest, William J.; and Marshall, Akemi S., to Eastman Kodak Company. Azido-s-triazines. 3,646,032, 2-29-72, Cl. 260-249.9.

Priestley, Hill M., to Lever Brothers Company. Dialkyl selenoxide hydronitrates. 3,642,909, 2-15-72, Cl. 260-607.

Priestley, Hill M.; and Wilson, James H., to Lever Brothers Company. Dodecylether methyl sulfides. 3,660,497, 5-2-72, Cl. 260-609.

Priestley, Hill M.; and Wilson, James H., to Lever Brothers Company. Detergent compositions. 3,670,027, 6-13-72, Cl. 260-593.00r.

Priestley, Hill M., to Lever Brothers Company. Process and compounds. 3,697,587, 10-10-72, Cl. 260-501.190.

Priestley, Ronald. Gas/liquid film contact apparatus. 3,704,869, 12-5-72, Cl. 261-112.000.

Priet, Roger Alois: *See—*
Willems, Jozef Frans; Thiers, Robrecht Julius; and Priet, Roger Alois, 3,687,662.

Prieto, Martin A.: *See—*
Clapper, Thomas W.; and Prieto, Martin A., 3,654,102.

Prieur, Hubertus; Vom Dorp, Walter; and Zeunert, Fritz, to McKay Machine Company, The. Apparatus for forming pilger die grooves. 3,688,643, 9-5-72, Cl. 90-24.300.

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Prival, Guy; and Prieur, Lucien Robert, 3,701,858.

Prigal, Samuel J. Method of enhancing the action of a medicament. 3,678,149, 7-18-72, Cl. 424-8.000.

Prigent, Claude, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Method and device for changing the direction of motion of articles. 3,642,115, 2-15-72, Cl. 198-28.

Prigent, Michel; and Dezael, Claude. Process for removing carbon dioxide from gases. 3,692,649, 9-19-72, Cl. 204-129.000.

Prigge, Helmut: *See—*
Eck, Herbert; Heckmaier, Joseph; Prigge, Helmut; and Spes, Hellmuth, 3,702,339.

Prigozy, Stephen: *See—*
Post, Herman; Prigozy, Stephen; and Millie, Orrin, 3,680,774.

Prijn, Cornelis; and Benedetti, Franco, to U.S. Philips Corporation. Electric lamp comprising a lamp base of a synthetic material. 3,673,453, 6-27-72, Cl. 313-318.000.

Prikhna, Alexei Iosifovich Alexei: *See—*
Bakul, Valentin Nikolaevich; Prikhna, Alexei Iosifovich Alexei; Shulzhenko, Alexandr Alexandrovich; and Gerasimovich, Alexei Vladimirovich, 3,695,797.

Prikryl, Milos: *See—*
Weigl, Bedrich; Janku, Milos; Prikryl, Milos; Hubeny, Jaroslav; and Hofman, Milos, 3,643,301.

Prikryl, Walter F.; and Gulick, Ronald A., to Research Engineering Company. Disengageable manual control. 3,677,108, 7-18-72, Cl. 74-625.000.

Prill, Arnold L.; and Tarkan, Stuart E., to Chromalloy American Corporation. Tungsten carbide dispersion in age-hardenable cupro-nickel. 3,674,575, 7-4-72, Cl. 148-32.500.

Prill, Arnold Louis, to Chromalloy American Corporation. Temper resistant chromium-containing titanium carbide tool steel. 3,653,982, 4-4-72, Cl. 148-31.

Prill, Erhard J.: *See—*
Wygant, James C.; Anderson, Richard M.; and Prill, Erhard J., 3,642,870.
Wygant, James C.; Anderson, Richard M.; and Prill, Erhard J., 3,644,493.
Wygant, James C.; Anderson, Richard M.; and Prill, Erhard J., 3,655,726.

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Prill, Robert S., to Singer Company, The, mesne. Analog-to-digital converter. 3,697,978, 10-10-72, Cl. 340-347.0ad.

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Prillwitz, Rolf: *See—*
Staudt, Heinrich; and Prillwitz, Rolf, 3,702,577.

Primachuk, Edward R.: *See—*
Shohet, Herbert N.; Magri, Joseph L.; and Primachuk, Edward R., 3,678,690.

Primak, William L., to United States of America, Atomic Energy Commission. Automatic photoelastimeter. 3,672,772, 6-27-72, Cl. 356-33.000.

Prime, Derek Arthur, to Banford, J. C., Excavators Limited. Tooth mounting means for earth working implements. 3,678,605, 7-25-72, Cl. 37-141.00t.

Primessing, Franz: *See—*
Wienand, Michael; Jensen, Klaus; Primessing, Franz; and Alfter, Franz-Werner, 3,679,531.

Primicerio, Fernando: *See—*
Benigno, Paolo; and Primicerio, Fernando, 3,685,642.

Primoff, Eugene H., to Worldwide Computer Services Inc. Game apparatus for familiarizing the user with the formation of computer flow charts. 3,653,667, 4-4-72, Cl. 273-134.

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Primorac, Michel M., to Berg Electronics, Inc. Electrical connector and block. 3,654,592, 4-4-72, Cl. 339-176.

Primosch, Edward P.: *See—*
Smith, William E.; Primosch, Edward P.; and Keenan, John D., Jr., 3,650,873.

Primus, Norman S.; and Hunhoff, Raymond, to National Water Main Cleaning Co. Method for lining pipes with calcite. 3,640,759, 2-8-72, Cl. 117-97.

Prince Corporation: *See—*

Zwiep, Theodore C.; Marcus, Konrad H.; and Weits, Ferdinand, 3,657,771.

Prince, Edward J.: *See—*
Stone, Joseph K.; Beck, Peter J.; and Prince, Edward J., 3,666,445.

Prince, Frank R., to Atlantic Richfield Company. Production of 2-pyrrolidones. 3,637,743, 1-25-72, Cl. 260-326.5.

Prince, Larry W. Toothbrush with ultraviolet emitter. 3,667,454, 6-6-72, Cl. 128-24.2.

Prince Manufacturing Corporation: *See—*
Patrick, Donald A., 3,667,347.

Prince, Martin; Blanck, Hillard; and Tarancon, Gregorio, to Saleen Development Corporation. Removal of particulate matter from gaseous wastes by wet collectors. 3,667,191, 6-6-72, Cl. 55-87.000.

Prince, Paul R.: *See—*
Hansen, Jay M.; Holscher, Donald J.; and Prince, Paul R., 3,706,903.

Prince, Richard N.; and Maylott, Asa O., to California and Hawaiian Sugar Company. Continuous invert sugar process. 3,632,446, 1-4-72, Cl. 127-41.

Prince, Thomas E., to United States of America, Navy. Laser-guided boring tool for deep hole boring. 3,635,108, 1-18-72, Cl. 82-1.

Princen, Lambertus H., to United States of America, Agriculture. Glossy finish linseed water emulsion paints and nonagglomerated pigment composition for said paints. 3,681,099, 8-1-72, Cl. 106-254.000.

Princeton Chemical Research, Inc.: *See—*
Shepherd, Thomas H.; and Reich, Murray H., 3,642,678.

Princeton Electronic Products, Inc.: *See—*
Hofstein, Steven R., 3,639,910.
Hofstein, Steven R., 3,646,391.

Pringle, Frank E., Jr.: *See—*
James, Robert C.; Wilson, David A.; and Pringle, Frank E., Jr., 3,664,086.

Pringle, Frank E., Jr.; West, George Allan; Vogel, Walter H.; Safranski, Richard W.; and Drake, Frederick R., to Hayssen Manufacturing Company. Method of and apparatus for forming packages with tear tabs. 3,681,890, 8-8-72, Cl. 53-14.000.

Pringle, William L.: *See—*
Bateson, Norman E.; and Pringle, William L., 3,675,592.
Bateson, Norman E.; and Pringle, William L., 3,677,192.
Hounshell, James R.; and Pringle, William L., 3,677,197.

Pringle, William L., to Allied Chemical Corporation. Time delay retractor. 3,632,057, 1-4-72, Cl. 242-107.4.

Pringle, William L., to Robbins, Jim, Seat Belt Company. Automatic locking retractor. 3,635,419, 1-18-72, Cl. 242-107.4.

Pringle, William L. Fuel tank assembly. 3,648,886, 3-14-72, Cl. 220-985.

Pringle, William L., to Radke, Lee, Associates, Inc. Remotely controlled day-night mirror. 3,655,273, 4-11-72, Cl. 350-281.

Pringle, William L., to Pullman Incorporated. Highway trailer vehicle with offset truss structure. 3,675,964, 7-11-72, Cl. 296-1.00a.

Pringle, William L., to Pullman Incorporated. Railway car. 3,677,193, 7-18-72, Cl. 105-368.00r.

Pringle, William L., to Pullman Incorporated. Articulated railway car. 3,678,863, 7-25-72, Cl. 105-4.00r.

Pringle, William L., to Pringle, William L., and Associates, Inc. Fuel tank assembly. 3,701,540, 10-31-72, Cl. 280-5.00a.

Pringle, William L., and Associates, Inc.: *See—*
Pringle, William L., 3,701,540.

Prins, Daniel A.: *See—*
Schroter, Herbert; and Prins, Daniel A., 3,642,808.

Prins, Jack M.: *See—*
Hoffmaster, George R.; and Prins, Jack M., 3,649,107.

Prins, Jacob Matthys: *See—*
Reimschuessel, George Paul; and Prins, Jacob Matthys, 3,688,768.

Prins, Richard, Jr.: *See—*
Prins, Richard, Sr.; and Prins, Richard, Jr., 3,697,056.

Prins, Richard, Sr.; and Prins, Richard, Jr., to Wolverine Manufacturing Company, mesne. Poultry manure drier and sterilizer. 3,697,056, 10-10-72, Cl. 263-8.00r.

Printal Oy: *See—*
Rautavalta, Juhani, 3,690,278.

Printing Developments, Inc.: *See—*
Barkman, Byron L.; Moe, William West; and Ross, Austin, 3,678,187.
Moe, William West, 3,646,262.

Prinz, Eberhard: *See—*
Mauz, Otto; and Prinz, Eberhard, 3,636,035.

Prinz, Josef, to Freudenberg, Carl. Process for rubbing dressings on natural leather. 3,687,709, 8-29-72, Cl. 117-64.00r.

Prinz, Peter: *See—*
Sennewald, Kurt; Erpenbach, Heinz; Vogt, Wilhelm; Lork, Winfried; and Prinz, Peter, 3,691,096.

Prinz, Richard: *See—*
Himmele, Walter; Aquila, Werner; and Prinz, Richard, 3,649,672.
Himmele, Walter; Quila, Werner; and Prinz, Richard, 3,661,980.

Prinz, Roy H., to Celanese Corporation. Recovery of polyhydric alkanols and metal salts of alkanolic acids. 3,706,793, 12-19-72, Cl. 260-542.000.

Priola, Aldo: *See—*
Cesca, Sebastiano; Roggero, Arnaldo; Priola, Aldo; and Cinelli, Ermanno, 3,646,105.

Prior, Josef; and Florin, Aloys, to Dynamit Nobel Aktiengesellschaft. Priming composition. 3,634,155, 1-11-72, Cl. 149-26.

Prior, Josef; and Florin, Aloys, to Dynamit Nobel Aktiengesellschaft. Detonator device for explosive charge exhibiting detonating effect capable of bridging gap between spaced charges. 3,688,702, 9-5-72, Cl. 102-70.000.

Prior, Josef. Flame sensitive ignitor. 3,690,260, 9-12-72, Cl. 102-86.500.

Prior, William L., to Vychem, Inc., mesne. High production machine utilizing spray masks. 3,635,194, 1-18-72, Cl. 118-301.

Prioretti, Guy Pierre: *See—*
Francois, Xavier; Venet, Roland Jean; and Prioretti, Guy Pierre, 3,678,845.

Pripeton, George: *See—*
Contaldo, Joseph; and Pripeton, George, 3,670,609.

Prisinzano, Frank: *See—*
Mature, Thomas F., Jr.; and Prisinzano, Frank, 3,677,571.

Prisk, Bert C., to General Motors Corporation. Laminated liquid pump and method of making same. 3,689,204, 9-5-72, Cl. 417-394.000.

Prislan, Georges, to Societe Boussois-Souchon-Neuvesel. Apparatus for the drawing of continuous sheets of glass including glass melt heating and cooling means. 3,658,503, 4-25-72, Cl. 65-162.

Prislan, Georges, to Boussois Souchon Neuvesel. Process for the manufacture of flat glass. 3,692,508, 9-19-72, Cl. 65-91.000.

Pritchard, Donald A.; and Gomez, Aldan Duane, to Ametek, Inc. Dual-channel logarithmic amplifier. 3,662,274, 5-9-72, Cl. 329-192.

Pritchard, Eric K.: *See—*
Evers, Theodore H.; and Pritchard, Eric K., 3,652,900.

Pritchard, James E., to Phillips Petroleum Company. Electrical cable having an ethylene-1-olefin copolymer as the dielectric material. 3,674,915, 7-4-72, Cl. 174-102.00r.

Pritchard, John P., Jr.; and Schroen, Walter H., to Texas Instruments, Incorporated. Process for preparation of tunneling barriers. 3,673,071, 6-27-72, Cl. 204-192.000.

Pritchett, Oscar G.; and Derry, Charles E. Retractable flood lamp. 3,666,935, 5-30-72, Cl. 240-1.200.

Pritchett, William C.: *See—*
Johnson, Walter H., Jr.; and Pritchett, William C., 3,654,464.

Pritsche, Donald L.: *See—*
Pugh, Robert E.; and Pritsche, Donald L., 3,685,587.

Pritulsky, James: *See—*
Keller, Joseph Richard; and Pritulsky, James, 3,638,008.
Keller, Joseph Richard; and Pritulsky, James, 3,705,756.

Pritulsky, James, to AMP Incorporated. Can opener switch. 3,668,342, 6-6-72, Cl. 200-52.00r.

Pritzker, Jay A.: *See—*
Doppelt, Max J., 3,646,941.

Prival, Guy; and Prieur, Lucien Robert, to Societe Industrielle Bull-Genel Electric (Societe Anonyme). Multichannel magnetic head unit of laminated construction. 3,701,858, 10-31-72, Cl. 179-100.20c.

Privett, Peter Arthur. Cultivation receptacle. 3,667,158, 6-6-72, Cl. 47-17.000.

Privon, George T.: *See—*
Abell, Richard S.; and Privon, George T., 3,689,207.

Privott, Wilbur J., Jr.: *See—*
Haley, David J.; Cunningham, Robert E.; and Privott, Wilbur J., Jr., 3,677,481.

Privott, Wilbur J., Jr.; and Sargent, Michael R., to Monsanto Company. Process for controlling orifice size when extruding molten materials. 3,692,089, 9-19-72, Cl. 164-66.000.

Pro-Col Corporation: *See—*
Mickevicz, Justin Melvin, 3,652,298.

Proakis, John G., to GTE Laboratories Incorporated. Frequency domain adaptive equalizer. 3,657,669, 4-18-72, Cl. 333-18.

Probat-Werke von Gimbom & Co. K.G.: *See—*
Schabbel, Roland, 3,673,700.

Prober, Richard: *See—*
Haycock, Ernest W.; and Prober, Richard, 3,703,446.

Probert, Daniel C.: *See—*
Depew, Donald R.; Greenman, Karl L.; and Probert, Daniel C., 3,660,807.

Probst, Georg: *See—*
Herterich, Walter; Probst, Georg; and Wurm, Bruno, 3,677,386.
Herterich, Walter; Probst, Georg; and Wurm, Bruno, 3,677,387.

Probst, Georg; and Herterich, Walter, to Compur-Werk Gesellschaft mit beschränkter Haftung & Co. Miniature tape recorder. 3,693,984, 9-26-72, Cl. 274-4.00c.

Probst, Otto: *See—*
Hornig, Lothar Heinz; Neu, Hermann; and Probst, Otto, 3,642,885.

Probst, Richard O.: *See—*
Miller, Emery P.; and Probst, Richard O., 3,692,606.

Probst, Richard O.; Smith, William W.; and Lee, Henry B., to Ransburg Electro-Coating Corporation. Synchronizing system. 3,648,565, 3-14-72, Cl. 91-171.

Probst, Richard O., to Ransburg Electro-Coating Corporation. Method of electrostatic spraying. 3,676,194, 7-11-72, Cl. 117-93.40r.

Probst, Richard O.; and Moos, Albert H., to Ransburg Electro-Coating Corporation. Nozzle holder. 3,677,470, 7-18-72, Cl. 239-15.000.

Procedyne Corporation: *See—*

Staffin, Herbert Kenneth, 3,677,404.

Staffin, Robert; Ricci, Roy J.; and Juels, Ronald J., 3,676,647.

Process Evaluation and Development Corporation: *See—*

Farrelly, Frank Williams, 3,681,191.

Villavicencio, Eduardo Joel, 3,688,345.

Process Services Inc.: *See—*

Yearout, James D.; and Tolbert, Richard E., 3,674,355.

Prochazka, Miloslav: *See—*

Brazda, Ladislav; Prochazka, Miloslav; Kuhn, Vladimir; and Ozdian, Josef, 3,667,205.

Brazda, Ladislav; Prochazka, Miloslav; Kuhn, Vladimir; Ozdian, Josef; and Benes, Rudolf, 3,670,484.

Brazda, Ladislav, deceased; Brazdova, Dagmar; Prochazka, Miloslav; Kaulich, Karel; and Ozdian, Josef, 3,643,413.

Prochazka, Miloslav; and Kaulich, Karel, to Elitex, Zavody textilnih strojrenstvi generalni reditelstvi. Checking mechanism for detecting yarn breakages in open end spinning machines. 3,643,414, 2-22-72, Cl. 57-83.

Prochazka, Miloslav; Cesenek, Bedrich; Mach, Vladimir; Kaulich, Karel; Zdenka, Cervený; and Bradzda, Ladislav; deceased (by Brazdova, Drahuska; and Brazdova, Dagmar; heirs), said Prochazka, said Cesenek, said Mach, said Kaulich and said Pacakova as-sors. to Elitex, Zavody textilnih strojrenstvi generalni reditelstvi. Apparatus for the continuous spinning of textile fibers. 3,648,450, 3-14-72, Cl. 57-58.89.

Prochazka, Miloslav; Seidl, Karel; and Cesenek, Bedrich, to Elitex, Zavody textilnih strojrenstvi. Device for the mass spinning-in of spinning units in spindleless spinning machines. 3,678,673, 7-25-72, Cl. 57-58.950.

Prochnow, Rudolf, to Fernseh G.m.b.H. Device for the recording and playback of signals on magnetic tape. 3,666,894, 5-30-72, Cl. 179-100.20t.

Procop, Alex J.; and Boultinghouse, Ace, to Edutek Systems Corporation. Single frame advance mechanism for motion picture projectors. 3,704,065, 11-28-72, Cl. 352-169.000.

Procopio, Antonio. Heel wedge for shoe. 3,673,714, 7-4-72, Cl. 36-81.000.

Procopio, John J.: *See—*

Goelzer, William C.; Moratelli, Patrick A., Jr.; Griffith, Albert M., III; Myers, David D.; Oritz, Herman E.; and Procopio, John J., 3,684,469.

Procter & Gamble Company, The: *See—*

Aubert, Harry Julius; and Gemperle, Edward Carroll, 3,679,608.

Baker, Joseph S.; Marsan, Mario S.; and Duncan, Robert C., 3,675,654.

Barbera, Melvin A., 3,668,240.

Bedenk, William T.; and Purves, Edward R., 3,664,848.

Bedenk, William T.; and Grabel, Lawrence, 3,680,473.

Bedenk, William T., 3,687,686.

Bedenk, William T., 3,689,279.

Benjamin, Lawrence; and Sullivan, John F., 3,635,828.

Benson, John F.; and Shern, Daniel R., 3,684,332.

Bergeron, Robert J.; and Schlichter, Stephen L., 3,700,466.

Bolt, Gregory L.; Brandt, Charles H.; McLain, Aubrey R.; and Patel, Jayantilal M., 3,640,726.

Booth, Gary E., 3,657,231.

Close, Kenneth S.; Harm, Alson R.; and Hood, Charles R., 3,631,649.

Connor, Daniel S.; and Krummel, Harry Karl, 3,699,159.

Cooke, Robert R., 3,694,230.

Crawford, Robert J., 3,676,505.

Crawford, Robert J., 3,676,506.

Damico, Ralph A., 3,700,676.

De Mott, Donald N.; and Stanton, Francis W., Jr., 3,634,294.

Desforges, Malcolm, 3,661,786.

Du Bois, Dominique; Heino, Jorgen; and Walden, Alan Frank, 3,663,443.

Easley, Charles E.; and Wosaba, Charles L., II, 3,653,382.

Edwards, James B., 3,673,110.

Edwards, James B.; and Haug, Warren R., 3,676,152.

Edwards, James B., 3,694,364.

Erman, William F.; and Broadus, Charles D., 3,658,925.

Fanta, Wayne I.; and Erman, William F., 3,644,505.

Fanta, Wayne I.; and Erman, William F., 3,662,007.

Fanta, Wayne I.; and Erman, William F., 3,673,263.

Fanta, Wayne I.; and Erman, William F., 3,673,266.

Fanta, Wayne I., 3,679,667.

Francis, Marion D., 3,641,246.

Francis, Marion D., 3,662,066.

Francis, Marion D., 3,678,164.

Francis, Marion D., 3,683,080.

Franks, Neal E., 3,647,630.

Gellert, Dale A., 3,646,937.

Gibson, Thomas W., 3,636,069.

Gibson, Thomas W.; and Erman, William F., 3,658,851.

Goodrich, Calvin C.; and Krummen, Eugene V., 3,703,067.

Gosselink, Eugene P., 3,636,103.

Gosselink, Eugene P.; and Laughlin, Robert G., 3,654,359.

Grote, Herbert E.; and Henry, Wilbur G., 3,642,644.

Hamilton, Lewis R., 3,646,015.

Harden, Kendall L., 3,683,547.

Hardy, Frederick E., 3,707,554.

Hardy, Frederick Edward, 3,652,660.

Hardy, Frederick Edward, 3,706,671.

Harlan, Warren H.; and Spaeth, Albert J., 3,690,484.

Harris, Ronald D.; and Levine, Leon, 3,673,228.

Heckert, David C., 3,635,806.

Heckert, David C., 3,701,722.

Heckert, David Clinton, 3,691,218.

Heusinkveld, Merlyn R., 3,640,727.

Hirst, David Graham Spencer, 3,660,470.

Johnson, Charles E., 3,707,504.

Julian, Donald V., 3,691,211.

Kokx, Darrel D., 3,677,249.

Kokx, Darrel D.; and Moore, Robert S., 3,706,311.

Kovacs, William L.; Pflaumer, Phillip F.; and Whyte, David D., 3,632,311.

Kovacs, William L., 3,679,374.

Krause, Horatio H.; McNulty, Justin S.; and Hall, Robert E., 3,652,213.

Kretschmar, Herbert C.; and Erman, William F., 3,662,008.

Kretschmar, Herbert C.; and Erman, William F., 3,673,261.

Kretschmar, Herbert C.; and Erman, William F., 3,679,756.

Kropp, Paul J., 3,686,097.

Lawrence, Benjamin; Wolfson, Alan B.; and Patel, Jayantilal M., 3,700,465.

Liepa, Alexander L., 3,687,687.

Liepa, Alexander L., 3,693,533.

Logan, Ted J.; and Rave, Terence W., 3,637,496.

Logan, Ted J., 3,664,983.

Lombana, Cesar A.; Phillips, Rudolph M.; and Gregg, Richard, 3,652,293.

Lucas, Malcolm B.; Villanueva, Jaime P.; and Rowe, Stewart, 3,667,596.

Lyness, Warren I.; and Thompson, James E., 3,634,392.

Lyness, Warren I.; and Thompson, James E., 3,686,124.

Maag, Gustav A.; and Gerth, Donald L., 3,698,097.

Macmillan, Francis S. Kilmer; and Lyness, Warren I., 3,678,156.

Mast, Roy C., 3,658,727.

McAuley, Edward G., 3,634,965.

McCarty, Charles Bruce, 3,649,569.

McSwiggin, Joseph R.; and Brandt, Charles H., 3,660,106.

McSwiggin, Joseph R., 3,697,288.

Medcalf, Ralph F., Jr., 3,639,569.

Meek, Homer Virgil, 3,650,082.

Menzies, James H.; and McSwiggin, Joseph R., 3,637,397.

Mezey, Eugene J.; and Hall, Robert E., 3,652,211.

Mezey, Eugene J.; and Laughlin, Robert G., 3,652,437.

Mezey, Eugene J., 3,679,560.

Morgan, John W., 3,647,857.

Morris, Peter, 3,649,677.

Morton, David Russell, 3,686,025.

Nicholson, Denzel Allan, 3,649,722.

Nicholson, Denzel Allan, 3,662,039.

Nicholson, Denzel Allan, 3,705,219.

Norris, Russell, 3,664,961.

Patel, Jayantilal M.; and Wolfson, Anal B., 3,671,263.

Patel, Jayantilal M.; Wolfson, Alan B.; and Lawrence, Benjamin, 3,700,464.

Perez-Zamora, Pablo O., 3,632,396.

Peterson, Donald J., 3,646,219.

Peterson, Donald J., 3,657,373.

Pieper, Kenneth M.; and Gibson, Thomas W., 3,673,256.

Prentice, James B., 3,641,126.

Prentice, James B., 3,670,015.

Riemersma, Coenraad E., 3,674,221.

Robson, Peter; and Hardy, Frederick Edward, 3,654,348.

Schaeffer, Richard A., 3,677,391.

Seiden, Paul, 3,669,848.

Seiden, Paul, 3,694,215.

Slone, Thomas J., 3,676,933.

Strobel, Rudolf G. K., 3,704,132.

Tessmer, Raymond G., Jr., 3,653,508.

Tessmer, Raymond G., Jr., 3,661,321.

Theile, Kenneth W.; Lennert, David A.; and Rose, Frederick G., 3,634,266.

Thompson, James E.; and Martin, James B., 3,634,397.

Wann, Robert Earl, 3,681,247.

Widder, James S.; and Briner, William W., 3,678,154.

Wolfson, Alan B.; Patel, Jayantilal M.; and Lawrence, Benjamin, 3,671,262.

Wosaba, Charles L., II, 3,661,626.

Zaki, Wahib Nassif; Coulomb, Jean Marie Louis; and Lovgren, Peter, 3,655,568.

Zaki, Wahib Nassif; and Biard, Daniel Guy Jean, 3,676,374.

Procter, Alan R., to MacMillan Bloedel Limited. Preparation of 1-thioalditols, 1-thioalditol disulfides and related hydroxy thiols. 3,639,484, 2-1-72, Cl. 260-608.

Procter and Gamble Company, The: *See—*

Bolt, Gregory L.; and Strobel, Rudolf G. K., 3,700,463.

Procter, James F.; Mebus, Henry R.; De Young, Robert J.; and Coviello, Joseph, to Harris-Intertype Corporation. Press to binder transfer system. 3,701,176, 10-31-72, Cl. 11-1.00r.

Procter, Robert F.: *See—*

Storey, William T., II; Procter, Robert F.; Snyder, Charles H. A.; Jacob, George M.; and Mooney, Raymond T., 3,672,046.

Procter, William B.; and Youngstrom, Jerry R., to Memorex Corporation. Method and apparatus for certifying magnetic recording tape. 3,633,187, 1-4-72, Cl. 340-174.1.

Proctor & Schwartz, Inc.: *See—*

Chung, Seng Fang; Kuechler, William L.; and Steinbronn, George J., 3,656,177.

Kuechler, William L.; and McCoy, Lyle E., 3,634,026.

Kuechler, William L., 3,666,544.

Proctor, Charles D. Diagnostic test for schizophrenia. 3,665,071, 5-23-72, Cl. 424-9.000.

Proctor Chemical Company, Inc., mesne: *See—*

Beaumont, Warren L.; and Cusano, Michael Richard, 3,634,019.

Proctor, David: *See—*

Macleod, Norman; and Proctor, David, 3,700,580.

Proctor, Denver L.: *See—*

Proctor, Rudy R.; and Proctor, Denver L., 3,685,803.

Proctor, E. W., Limited: *See—*

Githro, Phillip, 3,641,925.

Proctor, Edward D., to Bowles Fluidics Corporation. Protective sheath for fluid transfer. 3,687,173, 8-29-72, Cl. 141-1.000.

Proctor, Gordon L., to Proctor, Gordon L., Incorporated. Reactor. 3,648,674, 3-14-72, Cl. 123-141.

Proctor, Gordon L., Incorporated: *See—*

Proctor, Gordon L., 3,648,674.

Proctor, James Ernest; Paddock, Norman Lovelace; and Searle, Harold Trevor, to Hooker Chemical Corporation. Production of cyclic phosphonitrilic chloride polymers. 3,667,922, 6-6-72, Cl. 23-357.000.

Proctor Paint and Varnish Co., Inc.: *See—*

Schmidt, Richard, 3,702,625.

Proctor, Richard. Pull type variable weight exercising device. 3,640,528, 2-8-72, Cl. 272-81.

Proctor, Richard D. J., to United States of America, Navy. Electrical connector. 3,663,925, 5-16-72, Cl. 339-65.000.

Proctor, Richard I. Frictional resistant type exercise machine with waist level mounted oscillatable handgrips. 3,640,525, 2-8-72, Cl. 272-79.

Proctor, Richard I. Weight resistant chest exercising device. 3,640,527, 2-8-72, Cl. 272-81.

Proctor, Robert H., to Controls Company of America. Refrigeration system with evaporator outlet control valve. 3,667,247, 6-6-72, Cl. 62-217.000.

Proctor, Robert H., to American Standard, Inc. Refrigerant evaporator temperature control. 3,691,783, 9-19-72, Cl. 62-212.000.

Proctor, Rudy R.; and Proctor, Denver L., to Jet-X Corporation. Cup and lid therefor. 3,685,803, 8-22-72, Cl. 259-1.000.

Proctor, Wayne R., Jr., to McLaughlin Research Corporation. Exercising and training type golf club. 3,687,458, 8-29-72, Cl. 273-183.000.

Proctor, William Earl, Jr., to Leeds & Northrup Company. Reference electrode construction. 3,657,096, 4-18-72, Cl. 204-195.

Proctor-Silex Corporation: *See—*

Steinbronn, George J., 3,691,661.

Proctor-Silex Incorporated: *See—*

Eaton, John L., Jr.; Richard, Kenneth L.; and Schwartz, Walter M., Jr., 3,669,004.

Prodel, Marcel Desire, to Societe Industrielle de Construction d'Appareils et de Materiel Electriques S.I.C.A.M.E. Cable connectors. 3,688,247, 8-29-72, Cl. 339-98.000.

Prodesco, Inc.: *See—*

Kujas, Erich F., 3,645,951.

Prodger, Brian S.: *See—*

Bales, Joseph H.; Prodger, Brian S.; and Ruppel, Kurt, 3,696,555.

Kennedy, Melvin R.; and Prodger, Brian S., 3,667,672.

Nash, Alan W. B.; and Prodger, Brian S., 3,643,372.

Toy, Raymond M.; Parker, John C.; and Prodger, Brian S., 3,702,037.

Prodger, Brian S.; and Smith, Orbert S., to Mattel, Inc. Simulated high performance miniature toy vehicle. 3,653,149, 4-4-72, Cl. 46-201.

Product Design & Manufacturing Corporation: *See—*

Spropkay, George P., 3,664,698.

Stropkay, Edward J., 3,633,295.

Product Design Corporation: *See—*

Konstantin, William N., 3,656,636.

Product Development Services, Inc.: *See—*

Corris, Charles J., 3,634,843.

Product Promotions, Inc.: *See—*

Brooks, Ray G., 3,680,245.

Production Experts, Inc.: *See—*

Noll, Stanley Darwin; and Delfeld, William F., 3,672,030.

Production, Incorporated: *See—*

Schmidt, Gunter, 3,689,063.

Production Machinery Corporation: *See—*

Withrow, David A., 3,661,732.

Production Research, Inc., mesne: *See—*

Kujawa, Anthony, Jr., 3,672,291.

Productions Essemes S.A.: *See—*

Barrat, Bernard, 3,703,793.

Products Findus S.A.: *See—*

Akesson, Yngve Reinhold; and Wadell, Lars Gustaf Albert, 3,695,323.

Products Research & Chemical Corporation: *See—*

Cook, Ralph J.; Moline, Clifford C.; and Schumann, Joseph M., 3,707,146.

Produits Chimiques Pechiney Saint-Gobain: *See—*

Chatelain, Jean, 3,683,051.

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Zelter, Zelmen; Delort-Laval, Jean; Lassonnery, Jean; and Rodeaud, Jacques, 3,632,351.

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Beau, Raymond; and Fourniquet, Jean, 3,655,580.

Chatelain, Jean, 3,655,592.

Chatelain, Jean; and Soussan, Salomon, 3,678,021.

Correia, Yves; and Strini, Jean-Claude, 3,637,875.

Guillemin, Claude; and Badin, Jean-Claude, 3,658,481.

Le Gros, Jean; and Juillard, Michel, 3,632,688.

Le Page, Madeleine A.; and De Vries, Albert J., 3,677,938.

Le Page, Madeleine A.; Beau, Raymond; and Jacques, Maison-Alfort, 3,696,053.

Ledoux, Claude; and de Vries, Albert, 3,673,167.

Michel, Max; Benaroya, Gerard; and Jacques, Roland, 3,634,330.

Papee, Denis; and Lavalou, Michel, 3,701,718.

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Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolievich, 3,670,549.

Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolievich, 3,680,345.

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Berthoux, Jean; and Gac, Robert, 3,637,870.

Berthoux, Jean; and Ginot, Bernard, 3,646,125.

Bonnel, Bernard; and Hovasse, Christian, 3,656,985.

Bonnel, Bernard, 3,692,728.

Borrel, Philippe; and Leheureau, Jean, 3,655,483.

Gerin, Paul; Louat, Lucien; and Quillet, Jean-Pierre, 3,699,215.

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Wiesener, Robert W., 3,650,410.
Wicsener, Robert W., 3,661,276.
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Worwag, Eberhard, 3,643,276.
- Progressive Machine Company, Inc.: *See—*
Ludy, William F., Jr., 3,685,744.
- Progressive Products Corporation, mesne: *See—*
Holmes, Brandon M., 3,667,374.
- Prohazka, George J.: *See—*
Owens, Vincent P.; and Prohazka, George J., 3,703,919.
- Projecteurs Cibie: *See—*
Cibie, Pierre, 3,677,299.
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Holecck, Milan, 3,641,581.
- Prokai, Bela: *See—*
Kanner, Bernard; and Prokai, Bela, 3,642,670.
Rosen, Meyer R.; and Prokai, Bela, 3,677,347.
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Hubner, Klaus; Prokert, Konrad; and Stolz, Werner, 3,691,380.
- Prokop, Joseph F.: *See—*
Goldstein, Alma W.; and Prokop, Joseph F., 3,651,217.
- Prokopec, James C.: *See—*
Douglas, George Albert; and Prokopec, James C., 3,655,027.
- Prokopova, Helena: *See—*
Stoy, Vladimir; Stol, Miroslav; Prokopova, Helena; and Kliment, Karel, 3,691,263.
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Kisteneich, Heinz; and Proksa, Ferdinand, 3,706,516.
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Heiman, Udo G., 3,665,092.
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Smith, Ralph J., 3,648,528.
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Buissiere, Jean; Colobert, Louis; and Montagnon, Paul A. F., 3,690,836.
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Bonk, Heinrich Sylvester, 3,643,560.
Dietz, Ernst Hermann, 3,701,310.
Rentschler, Waldemar T.; and Espig, Winfried, 3,645,189.
Rentschler, Waldemar T., 3,687,028.
Rentschler, Waldemar T., 3,687,045.
Sohn, Jorg Alfred, 3,645,190.
Starp, Franz W. R.; and Racki, Vladimir, 3,635,141.
Starp, Franz W. R., 3,680,460.
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Papa, Anthony Joseph; and Proops, William Robert, 3,640,911.
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Gruzdev, Valentin Anatolievich; Skvortsov, Boris Vasilievich; Propkopenko, Nikolai Vasilievich; and Nedzvetsky, Evgeny Alexandrovich, 3,636,396.
- Propper Manufacturing Co., Inc.: *See—*
Heine, Helmut A., 3,643,083.
Menzel, Gerhard, 3,636,663.
Menzel, Gerhard, 3,641,712.
Speelman, Irving A., 3,665,672.
Speelman, Irving A., 3,672,745.
Speelman, Irving A., 3,675,486.
White, James C., 3,652,249.
White, James C., 3,667,166.
Whitc, James C., 3,693,811.
- Propst, James P.: *See—*
Glaze, John W., Jr.; and Propst, James P., 3,686,726.
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Schenk, Vladimir; Pros, Zdenek; and Wanek, Ludvik, 3,638,053.
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Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Idayatov, Tofik Kudrat Ogly; Proshian, Nea Eachievna; Sarkisov, Rafael Tevosovich; and Stepanian, Ernst Arakelovich, 3,651,774.
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Barnard, John D.; Gaito, Carl C.; Giedo, Gary R.; Greene, Thomas G.; Lind, James W.; Perkins, Merlyn H.; and Pross, Charles M., 3,648,175.
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Fahlenberg, Paul; and Pross, Wilhelm, 3,654,845.
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Kneller, Klaus; Poncet-Montange, Daniel; Prost, Jean-Louis; and Trub, Jean, 3,704,972.
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Lacoste, Jean; and Protard, Philippe, 3,631,969.
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Mandock, Richard F.; and Plambeck, Ronald F., 3,649,876.
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Gardner, Lawrence J.; and Cochren, Donald R., 3,640,831.
- Protective Treatments, Inc.: *See—*
Strack, Donald R., 3,652,380.
- Protectowire Co., The: *See—*
Andrews, Clifton B., 3,701,141.
- Proteus, Inc.: *See—*
Davidson, William M.; and Cole, Howard W., Jr., 3,657,752.
Davidson, William M.; and Cole, Howard W., Jr., 3,659,299.
- Prother, Charles V.: *See—*
Tracy, Richard A., 3,687,216.
- Prototypes, Inc.: *See—*
Seymour, Malcolm, 3,637,996.
- Protomastro, Michael Gabriel: *See—*
Ponzoni, George Bernard; Protomastro, Michael Gabriel; and Stefanucci, Arthur, 3,634,094.
- Proton AG: *See—*
Ingold, Werner, 3,691,846.
- Protospataro, Francesco: *See—*
Caldo, Cornelio; Danielli, Ezio; Incollingo, Italo; and Protospataro, Francesco, 3,669,829.
- Prototech Company: *See—*
Allen, Robert J.; and Petrow, Henry G., 3,669,749.
Novack, Robert L.; Moulton, David M.; and Juda, Walter, 3,669,752.
- Prototech Company; division of Bolt Beranek and Newman Inc.: *See—*
Allen, Robert J.; and Novack, Robert Lee, 3,640,773.
Juda, Walter; Allen, Robert J.; and Petrow, Henry G., 3,640,774.
- Prototech Incorporated: *See—*
Juda, Walter, 3,669,750.
- Prototypes, Inc.: *See—*

- Gardner, Kenneth R.; and Leaf, William B., 3,641,993.
- Prototypes, Incorporated: *See—*
Leaf, William Benjamin, 3,649,833.
- Protrack Industries Ltd.: *See—*
Stocker, Henry C., 3,645,307.
- Protsyshin, Boris Nikolaevich: *See—*
Dyskin, Ernest Matveevich; Raevsky, Georgy Vladimirovich; Biletsky, Semen Mikhailovich; Burmenko, Eduard Jurievich; Grosman, Erikh Ruvimovich; Satanovsky, Abram Lazarevich; Kremnev, Oleg Alexandrovich; Zhuravlenko, Viktor Yakovlevich; and Protsyshin, Boris Nikolaevich, 3,687,434.
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- Protmann, Henry E.: *See—*
Gibson, Kirkland H.; and Protmann, Henry E., 3,657,873.
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Lew, Dong W.; and Proud, Ralph A., Jr., 3,638,541.
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Pennel, Gerard J.; Prouvost, Gonzague J.; and Puvost, Robert P., 3,683,431.
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Learned, Allen J.; and Provance, Jason D., 3,659,240.
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McKee, Clyde M.; Provenzino, Andrew V.; and Scott, Ward, 3,640,608.
McKee, Clyde M.; Provenzino, Andrew V.; and Scott, Ward, 3,640,609.
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Kennedy, Paul G.; Zeigler, Rodney N.; and Provine, Daniel J., 3,705,262.
- Provinsky, Jerry: *See—*
Chow, Weichien; and Provinsky, Jerry, 3,680,034.
- Provis, Colin Alfred: *See—*
Smith, Alfred George; and Provis, Colin Alfred, 3,631,963.
- Prow, Harold James, Jr.: *See—*
Kelly, Joseph Francis; and Prow, Harold James, Jr., 3,702,982.
- Prows, Bernard L.: *See—*
Osborn, Oliver; and Prows, Bernard L., 3,661,742.
- Prowse, Derek Henry George; and Prowse, Stephen Derek, to Industrial Distributors (Sales) Limited. Saw elements. 3,661,137, 5-9-72, Cl. 125-21.
- Prowse, Stephen Derek: *See—*
Prowse, Derek Henry George; and Prowse, Stephen Derek, 3,661,137.
- Prucnal, Paul J.: *See—*
Wisner, Marco; and Prucnal, Paul J., 3,642,729.
Wisner, Marco; and Prucnal, Paul J., 3,681,307.
- Prud'Hon, Lucien: *See—*
Bono, David; and Prud'Hon, Lucien, 3,705,015.
- Prudnikov, Pavel Alexeevich: *See—*
Zykov, Vladimir Pavlovich; Panov, Alexei Alexandrovich; Prudnikov, Pavel Alexeevich; Khlopov, Mikhail Ivanovich; and Shlyapnikov, Alexei Dmitrievich, 3,675,087.
- Prudovsky, Boris Moiseevich: *See—*
Britvin, Lev Nikolaevich; Sergeev, Vitaly Andreevich; Spassky, Konstantin Semenovich; Smirnov, Igor Nikolaevich; Scheglov, Gennady Mikhailovich; Shtelmakh, Alexandr Alexandrovich; Prudovsky, Boris Moiseevich; Karakhanian, Vladimir Karapovich; Ivanov, Viktor Vasilievich; and Semenov, Mikhail Ivanovich, 3,659,969.
- Prueger, Nicolas J.: *See—*
Blount, Elmo M.; Snavely, Earl S., Jr.; Messenger, Joseph U.; and Prueger, Nicolas J., 3,677,340.
Blount, Elmo M.; and Prueger, Nicolas J., 3,695,358.
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Parrish, Donald Bob; and Pruitt, Ronnie Mac, 3,676,379.
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Engelsmann, Dieter; Hackenberg, Hubert; and Prummer, Helmut, 3,688,661.
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North, James Clayton; and Pruniaux, Bernard Roger, 3,700,978.
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Alperovich, Viktor Borisovich; and Prut, Alfred Iosifovich, 3,673,866.
- Pruvost, Robert P.: *See—*
Pennel, Gerard J.; Prouvost, Gonzague J.; and Puvost, Robert P., 3,683,431.
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Nemcansky, Jan; and Merta, Stanislava, 3,635,309.
- Prvni brnenska Strojirna Zavody Klementa Gottwalda, narodni podnik: *See—*
Dubsek, Frantisek; Tomas, Vaclav; Nigrin, Mojmir; and Sobotka, Jiri, 3,635,286.
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Gustavsson, Pertti O., 3,705,446.
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Metzger, Benjamin-A.; and Miller, Harry E., 3,702,692.
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Hollingshead, Robert A.; Kuchler, Abraham; and Pryor, Clyde Robert, 3,640,141.
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Kadron, Stanley F.; Eisenhauer, Gary L.; Pryor, David J.; and Chacon, Raul J., 3,704,423.

Pryor, Edward, Developments Limited: See—

Godbehere, Albert Edward, 3,679,558.

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Pryor, James T., to Perma Products Co. Foldable storage box. 3,667,666, 6-6-72, Cl. 229-16,00b.

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Caulle, Elmer J.; Sperry, Philip R.; Pryor, Michael J.; and Ford, James A., 3,698,964.

Pryor, Michael J.; and Anthony, William H., to Olin Mathieson Chemical Corporation. Method of making composite cable sheathing. 3,658,600, 4-25-72, Cl. 148-11.5.

Pryor, Michael J.; and Anthony, William H., to Olin Mathieson Chemical Corporation. Method of making a composite cable sheathing having an aluminum-silicon layer. 3,674,569, 7-4-72, Cl. 148-11.50a.

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Pryor, Michael J.; and Anthony, William H., to Olin Mathieson Chemical Corporation. Aluminum-zinc-boron alloys. 3,676,113, 7-11-72, Cl. 75-146,000.

Pryor, Michael J.; and Popplewell, James M., to Olin Corporation. Composites of glass-ceramic-to-metal seals and method of making same. 3,676,292, 7-11-72, Cl. 161-196,000.

Pryor, Richard Lee, to RCA Corporation. Chopper stabilized amplifier. 3,638,129, 1-25-72, Cl. 330-9.

Pryor, Robert C.: See—

D'Arcy, Robert M.; Birtell, James C.; Hensley, Emery P.; and Pryor, Robert C., 3,667,744.

Pryor, Robert C., to Phillips Petroleum Company. Two-stage smokeless incinerator. 3,680,500, 8-1-72, Cl. 110-8,00a.

Pryor, Timothy R. Method and device for measuring strain and other changes in dimension. 3,664,739, 5-23-72, Cl. 256-32.

Pryor, William S.: See—

Katsoulis, Emanuel G.; and Pryor, William S., 3,668,014.

Prytkov, Alexandr Alexandrovich: See—

Fedorenko, Anatoly Stepanovich; Mescheryakov, Jury Alexeevich; Prytkov, Alexandr Alexandrovich; and Tyabirdin, Vladimir Vasilievich, 3,688,148.

Prytkov, Evgeny Fedorovich. Tubular incandescent lamp. 3,675,070, 7-4-72, Cl. 313-279,000.

Przedsiębiorstwo Projektowania i Wyposażania Odlęwni Prodlaw- Oddział "PRODLEW Oddział: See—

Kedziór, Andrzej; Horoszkó, Jan; Olszowski, Tadeusz; Romaniec, Edward; and Zarembka, Stanisław, 3,682,448.

Przezdziecki, Wojciech M., to Eastman Kodak Company. Processes and elements for preparation of photomechanical images with cinnamylidene malonate copolyester. 3,690,882, 9-12-72, Cl. 96-28,000.

Przybylski, Daniel F. Overload protector for crane booms. 3,645,407, 2-29-72, Cl. 212-39.

Przygocki, Julius V.: See—

Barkovitz, William E.; and Przygocki, Julius V., 3,664,094.

Przygocki, Witold C., to Murray-Way Corporation. Abrasive belt control apparatus and method. 3,665,650, 5-30-72, Cl. 51-135,00b.

Psaar, Hubertus; and Raue, Roderich, to Farbenfabriken Bayer Aktiengesellschaft. Heteryl-methane compounds. 3,637,748, 1-25-72, Cl. 260-326,15.

Psaar, Hubertus; Puschel, Walter; and Raue, Roderich, to Agfa-Gevaert Aktiengesellschaft. Light sensitive material comprising indolylmethane derivatives and tetrabromomethane. 3,684,510, 8-15-72, Cl. 96-48,00r.

Psader, Josef: See—

Scholz, Klaus L. J.; and Psader, Josef, 3,661,804.

Psencik, Erich; Hermsdorf, Horst; and Vltavsky, Horst, to Dynamit Nobel Aktiengesellschaft. Metal coated with varnish film and process for producing same. 3,684,565, 8-15-72, Cl. 117-132,00f.

Psenka, Joseph A., to Lear Siegler, Inc. Pot broaching machine. 3,656,401, 4-18-72, Cl. 90-10.

Psenka, Joseph A. Table tennis practice or game board. 3,659,850, 5-2-72, Cl. 273-102.2.

Pshenichny, Gennady Ivanovich; Checheljuk, Yakov Zinovievich; and Afanasiev, Mikhail Andreevich. Stand for assembling and

pressing magnetic circuits of power transformers. 3,685,435, 8-22-72, Cl. 100-8,000.

Psihas, James: See—

Levy, Joseph; and Psihas, James, 3,678,048.

PSL Industries, Inc.: See—

Schoenbrun, Errol A.; Lichtenstein, Murray M.; and Podos, Bernard, 3,661,151.

Psota, Joseph M.; Hamilton, Joel A.; and Di Donato, Russell D., to Mahaffy & Harder Engineering Company. Automatic container making apparatus. 3,661,484, 5-9-72, Cl. 425-109.

Pstrocki, Henry: See—

Paszke, Jan; Pstrocki, Henry; Ploszajski, Janusz; Lachman, Rudolf; Stanislaw, Lansy; and Wiszczor, Jan, 3,697,051.

P.T. & T. Industries, Inc.: See—

Copeland, John H., 3,669,425.

Ptacek, James F., to Vendo Company. The. Receiving and transporting apparatus for currency. 3,656,615, 4-18-72, Cl. 209-73.

Ptacek, James F., to Vendo Company. The. Currency testing system. 3,706,374, 12-19-72, Cl. 209-75,000.

Ptiff, Werner: See—

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Ptak, Louis R., to Continental Can Company, Inc. Closure having polyethylene liner. 3,637,103, 1-25-72, Cl. 215-40.

Ptak, Louis R., to Continental Can Company, Inc. Hermetic packaging with plastic container. 3,653,581, 4-4-72, Cl. 229-43.

Publication Corporation: See—

Behringer, Alfred C., 3,641,932.

Publishers Paper Co.: See—

Turner, Frank A., 3,655,144.

Pucci, Luigi: See—

Epifani, Corrado; and Pucci, Luigi, 3,706,956.

Puccio, Joseph Anthony: See—

Andreini, John; Borchard, Edwin Harley; Pohl, Karl-Heinz; and Puccio, Joseph Anthony, 3,689,115.

Andreini, John; Borchard, Edwin Harley; Pohl, Karl-Heinz; and Puccio, Joseph Anthony, 3,689,128.

Puchalski, Chester: See—

Von Strandtmann, Maximilian; Puchalski, Chester; Cohen, Marvin; and Shavel, John, Jr., 3,642,781.

Pucher, Richard A.: See—

Blanshine, Allison W.; and Pucher, Richard A., 3,670,482.

Pucher, Walter, to Allmanna Svenska Elektriska Aktiebolaget. Circuit breaker for high voltage direct current. 3,678,335, 7-18-72, Cl. 317-11,00a.

Puchkoff, Zalman P.; and Topazio, Vincent. Foldable shirt packaging box and carrying container. 3,664,572, 5-23-72, Cl. 229-40.

Puckette, Charles M., to General Electric Company. Synchronizer for sequence generators. 3,654,390, 4-4-72, Cl. 178-69.5.

Puckette, Charles McDonald, to General Electric Company. Slepe polarity detector circuit. 3,659,209, 4-25-72, Cl. 328-132.

Puckorius, Paul R.; and Zimmie, William E., Inc. Method of removing tubercles using organic polymers and silica and/or chromium compounds. 3,658,710, 4-25-72, Cl. 252-87,000.

Pudark, Arthur A.: See—

Zahradnik, George J.; and Pudark, Arthur A., 3,647,288.

Puddington, Ira E.: See—

Farnand, Joseph Redmond; and Puddington, Ira E., 3,674,461.

Meadus, Frederick W.; and Puddington, Ira E., 3,664,824.

Sirianni, Aurelio F.; and Puddington, Ira E., 3,661,254.

Pudek, Marian Franciszek: See—

Worster, Hans Edmund; and Pudek, Marian Franciszek, 3,691,008.

Worster, Hans Edmund; and Pudek, Marian Franciszek, 3,695,994.

Puderbach, Gerhard: See—

Schafer, Fred; and Puderbach, Gerhard, 3,648,820.

Puell, Heinz: See—

Kaiser, Wolfgang; Opower, Hans; and Puell, Heinz, 3,652,393.

Puente, Jose R. Processing rack for photographic glass plates. 3,682,083, 8-8-72, Cl. 95-100,000.

Puerner, Gale N.: See—

Perry, Leo F.; and Puerner, Gale N., 3,633,623.

Puerner, George O.: See—

Kirby, Joseph L.; and Puerner, George O., 3,644,865.

Puerner, George O., to Mallory, P. R., & Co., Inc. Two switch actuator means. 3,665,137, 5-23-72, Cl. 200-172,00a.

Puerner, George O., to Mallory, P. R., & Co., Inc. Variable resistor with collector and grounding contact. 3,691,504, 9-12-72, Cl. 338-174,000.

Puett Electrical Starting Gate, Inc.: See—

Mills, Richard M., 3,703,883.

Puetz, Eckard J.: See—

Olmsted, Lester E.; Puetz, Eckard J.; and Rodgers, Warren, 3,660,021.

Puetz, Jordan F.: See—

Stallman, James E.; Schlitt, James J.; Puetz, Jordan F.; and Arneberg, Don J., 3,643,187.

Puetz, Jordan F.; and Stallman, James E., to Square D Company. Armature mounting structure in an electromagnetically operated switch. 3,643,188, 2-15-72, Cl. 335-132.

Puetz, Jordan F.; and Stallman, James E., to Square D Company. Structure for mounting an electromagnet in an electromagnetically operated switch. 3,643,190, 2-15-72, Cl. 335-132.

Puetz, Jordan F., to Square D Company. Movable contact structure for an electric switch. 3,646,491, 2-29-72, Cl. 335-197.

Pufahl, Joseph. Laminated sheet material having a contoured surface. 3,700,539, 10-24-72, Cl. 161-120,000.

Puffer, Edward W.; and Duncan, Howard K., to Outboard Marine Corporation. Riding lawn mower friction drive. 3,667,304, 6-6-72, Cl. 74-197,000.

Puffer, Nathan D., to Minnesota Mining and Manufacturing Company. Transparency projector. 3,632,198, 1-4-72, Cl. 353-60.

Puffr, Rudolf: See—

Sebenda, Jan; and Puffr, Rudolf, 3,673,161.

Pugach, Joseph: See—

Winnick, Charles N.; and Pugach, Joseph, 3,632,635.

Pugh, Carl Starner, Jr.; and Curry, Robert Clay, to North American Rockwell Corporation, mesne. Heterogeneous construction of textile shuttle side walls. 3,660,219, 5-2-72, Cl. 161-93.

Pugh, Claud E.: See—

McDonald, Patrick H.; Blake, Henry W.; Myers, Guy A.; Pugh, Claud E.; and Todd, Edward S., 3,633,403.

Pugh, Evan R.: See—

Daugherty, Jack D.; Douglas-Hamilton, Diarmaid H.; Patrick, Richard M.; and Pugh, Evan R., 3,702,973.

Pugh, Evelyn M. Hair wave and curl setting device. 3,665,936, 5-30-72, Cl. 132-9.

Pugh, John G. Multiple belt punch. 3,640,481, 2-8-72, Cl. 242-56.8.

Pugh, Mary A. Portable shampooing unit. 3,694,826, 10-3-72, Cl. 4-159,000.

Pugh, Robert E.; and Pritsche, Donald L., to Fike Metal Products Corporation. Light responsive activating apparatus for fire or explosion suppressing systems. 3,685,587, 8-22-72, Cl. 169-19,000.

Pugh, Thomas F. Double wall interlocking panel construction. 3,634,990, 1-18-72, Cl. 52-595.

Pugin, Andre; Burdeska, Kurt; and Model, Ernst. Salicyloylamino-antraquinone pigments. 3,682,966, 8-8-72, Cl. 260-326,00d.

Pugin, Andre, to Ciba-Geigy AG. Crystalline perylenetetracarboxylic acid dibenzoylhydrazide. 3,697,526, 10-10-72, Cl. 260-281,000.

Pugin, Andre; Burdeska, Kurt; and Model, Ernst, to Ciba-Geigy AG. Salicyloylamino-antraquinone pigments. 3,701,791, 10-31-72, Cl. 260-377,000.

Pugliese, Albert J. Service vehicle. 3,633,775, 1-11-72, Cl. 214-506.

Pugliese, Joseph A., to Hoke Incorporated. Pipe coupling. 3,695,647, 10-3-72, Cl. 285-341,000.

Pugnaire, Jean-Pierre A., to Bytrec, Inc. Adjustable transducer overload stop. 3,646,809, 3-7-72, Cl. 73-141.

Pugsley, Jack H. Game table with centrally disposed apertured barrier. 3,655,187, 4-11-72, Cl. 273-30.

Pugsley, Peter C.; and Dobouney, Mouayed Edouard, to Crosfield Electronics Limited. Catchlight control in image reproduction systems. 3,634,611, 1-11-72, Cl. 178-5.2.

Puhahn, Werner; and Lampert, Rolf, to Standardwerk Eugen, Reis, GmbH. Coin wrapping machines. 3,650,086, 3-21-72, Cl. 53-59.

Puhk, Heino, to SCM Corporation. Soluble alkali metal salt removal from substantially non-polar liquids. 3,678,097, 7-18-72, Cl. 260-486,00r.

Puhringer, Othmar, to Vereinigte Österreichische Eisen- und Stahlwerke Aktiengesellschaft. Converter comprising a carrying structure that is open on one side or can be divided. 3,632,098, 1-4-72, Cl. 266-36.

Puhringer, Othmar, to Vereinigte Österreichische Eisen- und Stahlwerke Aktiengesellschaft. Tilttable crucible or converter. 3,635,458, 1-18-72, Cl. 226-36.

Puig, John E.: See—

Ready, William C.; Puig, John E.; and Van Leuwen, Bruce G., 3,658,972.

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Tupolev, Andrei Nikolaevich; Tupolev, Alexei Andreevich; Cheremukhin, Georgy Alexeevich; Bliznjuk, Valentin Ivanovich; Pukhov, Alexandr Leonidovich; Svischev, Georgy Petrovich; Bjushgens, Georgy Sergeevich; and Mikeladze, Vitaly Georgievich, 3,677,502.

Pukitis, Ilmar Alfredovich: See—

Orlov, Nikolai Nikolaevich; Leveikin, Mikhail Shevelevich; and Pukitis, Ilmar Alfredovich, 3,643,484.

Puklics, Maria: See—

Guczoghy, Lajos; Puklics, Maria; Kelemen, Gyorgy; and Leszkovsky, Gyorgy, 3,639,415.

Pul, Nikolai Kuzmich: See—

Gorbuntsov, Alexandr Fedorovich; Berlinblau, Efim Petrovich; and Pul, Nikolai Kuzmich, 3,662,254.

Pulacci, Angiolo: See—

Franco, Gianfranco; Mancini, Carlo; and Pulacci, Angiolo, 3,638,000.

Pulici, Louis. Method and apparatus for rolling and tucking filled foodstuffs. 3,669,007, 6-13-72, Cl. 99-450,600.

Pulkkinen, Erkki J., to Allied Chemical Corporation. 3,3,3',3'-Tetramethyl-6,6'-di(2-hydroxypropoxy)-1,1'-spirobiindane and polyesters derived therefrom. 3,658,941, 4-25-72, Cl. 260-861.

Pull, Bernard T.: See—

Ronzio, Anthony R.; and Pull, Bernard T., 3,645,763.

Pullan, Ronald C., to Knappe & Vogt Manufacturing Company. Bracket construction. 3,695,569, 10-3-72, Cl. 248-235,000.

Pullen, Edward A.: See—

Dorsey, William Smith; Hallis, Thomas, Jr.; and Pullen, Edward A., 3,659,772.

Pullen, Eric V.: See—

Manoogian, Alex; and Pullen, Eric V., 3,645,493.

Manoogian, Alex; and Pullen, Eric V., 3,674,048.

Pulley, Monroe, Jr.: See—

Kucera, Alfred J.; and Pulley, Monroe, Jr., 3,696,459.

Pulliam, George R.: See—

Mee, Jack E.; Heinz, David M.; Hamilton, Thomas N.; Besser, Paul J.; and Pulliam, George R., 3,645,787.

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Pulliam, Joseph H.; and McCurnin, Thomas W., to Iota Engineering, Inc. Fluid level sensor and system. 3,701,138, 10-24-72, Cl. 340-244,00r.

Pulliam, Richard D.: See—

Davis, Buell L.; and Pulliam, Richard D., 3,688,379.

Pulliam, William D. Automatic washing apparatus. 3,698,029, 10-17-72, Cl. 15-21,00d.

Pullman Incorporated: See—

Anderson, C. H.; and Griffiths, Colin, 3,706,449.

Bateson, Norman E.; and Pringle, William L., 3,675,592.

Bateson, Norman E.; and Pringle, William L., 3,677,192.

Brinks, Floyd J.; Day, Lucian P., Jr.; and Jones, Jerry L., 3,678,867.

Carr, George W., 3,701,562.

Chang, Clarence D.; and Logiudice, Albert S., 3,644,541.

Christian, Andrew J.; Spence, John H.; and Han Yang, Tung, 3,631,811.

Crawford, Duffer B.; and Norenburg, Johannes C., 3,675,434.

Ferris, Ray L.; and Spence, John H., 3,647,248.

Ferris, Ray L.; and Marulic, Walter J., 3,653,621.

Gutridge, Jack E., 3,678,864.

Heinz, Robert G.; Cohen, Harry; and Carmel, Edwin L., 3,693,306.

Hounshell, James R.; and Pringle, William L., 3,677,197.

Knippel, Willis H.; and Shaver, William R., 3,651,953.

Kovalcik, Edward J.; and Dowling, Edward D., 3,667,743.

Leduc, Joseph-Adrien, 3,632,497.

Leduc, Joseph-Adrien, 3,694,281.

Leduc, Joseph-Adrien M.; Lurie, Charles; Kronig, Walter; and Konrad, Peter, 3,701,719.

Lefrancois, Philip A.; and Barclay, Kenneth M., 3,671,185.

Marulic, Walter J., 3,682,105.

Miller, Roy W., 3,631,816.

Miller, Roy W., 3,632,174.

Miller, Roy W., 3,633,772.

Miller, Roy W.; Stark, Marvin; and Shaver, William R., 3,659,724.

Mundinger, William D.; and Marsh, Ronald W., 3,675,975.

Nagy, Ernest J., 3,650,221.

Nagy, Ernest J., 3,653,153.

Nagy, Ernest J.; and Shaver, William R., 3,675,591.

Nagy, Ernest J., 3,677,191.

O'Neill, Thomas J.; Szala, Norman M.; and Van Der Sluys, William, 3,631,817.

O'Neill, Thomas J., 3,641,943.

Osman, Mohamed A., 3,684,486.

Peterson, William H., 3,633,763.

Peterson, William H., 3,660,653.

Peterson, William H., 3,679,068.

Peterson, William H., 3,707,124.

Pfeiffer, Robert W.; and Wickham, Henry P., 3,661,800.

Pringle, William L., 3,675,964.

Pringle, William L., 3,677,193.

Pringle, William L., 3,678,863.

Schuller, James J., 3,675,590.

Schuller, James J., 3,677,196.

Schuller, James J., 3,693,846.

Shaver, William R., 3,631,814.

Shaver, William R.; and Nagy, Ernest J., 3,633,515.

Shaver, William R.; and Knippel, Willis H., 3,679,069.

Shaver, William R.; and Schuller, James J., 3,693,839.

Shaver, William R.; and Schuller, James J., 3,700,143.

Stark, Marvin; and Knippel, Willis H., 3,664,270.

Van Der Sluys, William; O'Neill, Thomas J.; and Szala, Norman M., 3,672,309.

Wallace, Bruce Alden, 3,671,198.

Yang, Tung H.; and Spence, John H., 3,677,198.

Yates, Donald B., 3,693,762.

Pullman, James O.; and Weidlich, William R., to Liggett & Myers Incorporated. Relative carbon content meter for smoke filters. 3,696,299, 10-3-72, Cl. 324-61,00r.

- Pullman Transport Leasing Company, mesne: *See—*
Adler, Franklin P., 3,637,262.
- Pulman, Leonard J.: *See—*
Fekete, Frank; Thrash, David J.; and Pulman, Leonard J., 3,698,981.
- Pulman, Prockter T.; and Horsfall, Geoffrey D. S. Method of and device for introducing a soluble additive into a solvent. 3,645,236, 2-29-72, Cl. 119-81.
- Pulman, Prockter T.; and Horsfall, Geoffrey D. S. Pumps. 3,658,445, 4-25-72, Cl. 417-474.
- Pulp and Paper Research Institute of Canada: *See—*
Clayton, David W.; and Sakai, Asahi, 3,661,698.
Clayton, David W.; and Sakai, Asahi, 3,664,918.
Clayton, David W.; and Sakai, Asahi, 3,664,919.
Liebergott, Norman, 3,663,357.
Prahacs, Steven; and Bhatia, Satya Pal, 3,701,824.
Yorston, Frederick H.; and Liebergott, Norman, 3,655,505.
- Puls, Walter: *See—*
Kebbe, Hans Joachim; Horstmann, Harald; Plumpe, Hans; Puls, Walter; and Petersen, Siegfried, 3,689,674.
Plumpe, Hans; and Puls, Walter, 3,668,215.
- Puls, Werner H.: *See—*
Dickinson, George R.; Moritz, Scott N.; and Puls, Werner H., 3,636,425.
- Pulsifer, Gary Raymond. Holder device for infant's nursing bottle. 3,696,233, 10-3-72, Cl. 219-535.000.
- Pulsotronic Merten KG: *See—*
Kind, Guntram; Schroder, Karl-Heinz; and Busse, Rido, 3,655,039.
- Pultizer, Wolfgang: *See—*
Karobath, Ernst; and Pultizer, Wolfgang, 3,701,689.
- Pulver, Willis Clark, to Velten & Pulver, Inc. Conveyor system and attachments therefor. 3,669,247, 6-13-72, Cl. 198-189.000.
- Pum, Franz J.; and Schnetzinger, Richard W., to Revlon, Inc. Process of mono- and di-nitrating p-phenylene diamine compounds. 3,654,363, 4-4-72, Cl. 260-577.
- Puma, Maurice J.: *See—*
Bielefeld, Ewald J., Jr.; and Puma, Maurice J., 3,698,867.
- Pummer, Helmut: *See—*
Kissling, Bruno; and Pummer, Helmut, 3,684,728.
- Pump Specialties, Inc.: *See—*
Lake, Jack Tait, 3,632,234.
- Pumpen- und Maschinenfabrik Lederie OHG: *See—*
Kramer, Hermann; and Hahn, Karl-Heinz, 3,652,192.
- Pumpenfabrik Urach: *See—*
Fries, Hugo, 3,702,624.
- Pumphrey, Nicholas William James; and Moss, Keith Graham, to Imperial Chemical Industries Limited. Stripping of coated titanium electrodes for re-coating. 3,706,600, 12-19-72, Cl. 134-3.000.
- Puna, Erich, to Brundell Och Jonsson AB. Tree harvesting machine. 3,643,711, 2-22-72, Cl. 144-2.
- Pungs, Wolfgang: *See—*
Buning, Robert; Raalf, Hans; and Pungs, Wolfgang, 3,640,930.
Schneider, Johannes; and Pungs, Wolfgang, 3,642,941.
Schneider, Johannes; and Pungs, Wolfgang, 3,646,156.
- Punnett, Frazer D.: *See—*
Fantuzzo, Joseph; and Punnett, Frazer D., 3,671,118.
- Puopolo, Vito. Music slide rule. 3,678,796, 7-25-72, Cl. 84-471.000.
- Pupo, David A.: *See—*
Haist, Grant M.; King, James R.; and Pupo, David A., 3,647,453.
- Puppole, Henry F.; and Markarian, Mark, to Sprague Electric Company. Electrolytic book capacitor. 3,654,524, 4-4-72, Cl. 317-230.
- Purcell, Antoinette M.; Thies, Curt; Bank, Morris I.; and Leffingwell, James W., to National Cash Register Company, The. Method of using display device utilizing polymer-polymer miscibilities. 3,694,246, 9-26-72, Cl. 117-36.700.
- Purcell, Antoninette M., to National Cash Register Company, The. Encapsulation process and its product. 3,640,892, 2-8-72, Cl. 252-316.
- Purcell, Chester L.; and Smarook, Walter H., to Union Carbide Corporation. Bonding with ammonium polymer salts. 3,674,896, 7-4-72, Cl. 260-897.00b.
- Purcell, Edward M.: *See—*
Rodgers, Franklin A.; and Purcell, Edward M., 3,635,800.
- Purcell, Harold K.: *See—*
Schwartz, Leonard; Purcell, Harold K.; and Wieselmann, Jerome J., 3,674,688.
- Purcell, John E.: *See—*
Downs, Horace Dean; and Purcell, John E., 3,635,093.
- Purcell, Rupert M.: *See—*
Bartlett, David S., Jr.; Purcell, Rupert M.; Osborne, David W.; and Smith, Troy F., Jr., 3,659,709.
- Purcell, Rupert M.; and Bartlett, David S., Jr. Method of making pillow cases. 3,654,015, 4-4-72, Cl. 156-217.
- Purcell, Thomas H., Jr., to ESB Incorporated. Reserve liquid storage and dispensing device. 3,669,320, 6-13-72, Cl. 222-389.000.
- Purchase, H. Graham: *See—*
Okazaki, William; Purchase, H. Graham; and Witter, Richard L., 3,642,574.
- Purciel, Larry R., to Tool Research Engineering Corporation. Display package. 3,692,173, 9-19-72, Cl. 206-45.190.
- Purdes, Andrew J.; and Jost, Ernest M., to Texas Instruments, Incorporated. Method of modifying electrical resistivity characteristics of dielectric substrates. 3,642,527, 2-15-72, Cl. 117-212.
- Purdie, Angus John Challis: *See—*
Woodward, Anthony Ian; and Purdie, Angus John Challis, 3,676,175.
Woodward, Anthony Ian; Purdie, Angus John Challis; and Way, Anthony Paul, 3,676,189.
- Purdue Frederick Company, The: *See—*
Altman, Murray; Craig, Mordecai R.; and Block, Irwin H., 3,640,010.
- Purdue Research Foundation: *See—*
Bachman, Gustave B.; and Tullman, Gerald M., 3,641,122.
Bachman, Gustave Bryant; and Biermann, Theodore F., 3,689,576.
Bachman, Gustave Bryant; and Eisenstein, Stephen E., 3,706,808.
Benkeser, Robert A.; and Smith, William E., 3,699,141.
Benkeser, Robert A.; and Smith, William E., 3,699,142.
Benkeser, Robert A.; and Gaul, James M., 3,699,143.
Edwards, Thomas C., 3,686,893.
Johnson, Paul E.; Haugh, Clarence G.; Warren, George F.; and Kratky, Bernard A., 3,648,409.
Nelson, Philip E., 3,678,955.
Whistler, Roy L., 3,699,170.
- Purdy, Bruce W.; and Perti, Donato, to Ocean Data Equipment Corporation. Digital phase measurement/computation circuit. 3,663,956, 5-16-72, Cl. 324-83.
- Purdy, David L., to Nuclear Materials and Equipment Corporation. Electrical generator. 3,649,367, 3-14-72, Cl. 136-202.
- Purdy, David L.; Nyce, Andrew C.; and Forscher, Frederick, to Arco Nuclear, mesne. Thermoelectric apparatus. 3,661,653, 5-9-72, Cl. 136-212.
- Purdy, Don Ryall; and Donnelly, William Edward, to RCA Corporation. Fluid cooled apparatus for testing power semiconductor devices. 3,648,167, 3-7-72, Cl. 324-158.
- Purdy, Harold L., to Stackpole Carbon Company. Reciprocating switch mechanism with improved thumbwheel actuator including rack and pinion structure. 3,639,706, 2-1-72, Cl. 200-17.
- Purdy, Haydn V.; and McIntosh, Ronald C. Electrical contact-making keyboards. 3,668,694, 6-6-72, Cl. 340-365.
- Purdy, Leonard R., to Lanier Industries, Inc. Airfoil structure. 3,645,481, 2-29-72, Cl. 244-123.
- Purdy, Richard A.; and Rutledge, Thomas F., to American Metal Climax, Inc. Method and apparatus for cleaning conveyor belts. 3,680,684, 8-1-72, Cl. 198-230.000.
- Pure Chemicals Limited: *See—*
Oakes, Vincent; and Iles, Brian Rodney, 3,665,024.
- Puredesal, Inc.: *See—*
Bradley, William E., 3,637,081.
- Puredesal, Inc., mesne: *See—*
Bradley, William E., 3,654,148.
Bradley, William E., 3,707,231.
- Puretic, Mario J. Power block. 3,643,921, 2-22-72, Cl. 254-138.
- Purewal, Karmjit: *See—*
Haddick, Roy D.; Purewal, Karmjit; and Vickers, Fenwick, 3,661,885.
- Purex Corporation, Ltd.: *See—*
Bailey, Wesley T.; and Cummings, Robert, 3,649,584.
Briggs, Benjamin R., 3,663,442.
Briggs, Benjamin R., 3,666,680.
Briggs, Benjamin R., 3,689,421.
Franzreb, Thomas G., 3,665,542.
Lucas, Robert S., 3,638,833.
Lucas, Robert S., 3,680,735.
Ng, Daniel Y., 3,690,949.
Patterson, Charles B., 3,676,538.
Pollack, Isidore; and Dohogne, Charles L., 3,652,432.
Robinson, Ronald A.; and Briggs, Benjamin R., 3,655,566.
Schiller, Teddy M., 3,647,167.
Schiller, Teddy M., 3,672,193.
- Puring, Mikhail Nikolaevich: *See—*
Krylov, Vsevolod Semenovich; Popkov, Ivan Nikolaevich; Magunov, Robert Leonidovich; Puring, Mikhail Nikolaevich; Bagdasarov, Khachatur Saakovich; Tsagina, Raisa Fedorovna; and Popov, Viktor Innokentievich, 3,667,901.
- Puritan-Bennett Corporation: *See—*
Bartels, Harold, 3,664,361.
Schwarz, Karl H., 3,641,296.
- Purity Electrochemicals Company: *See—*
Scheder, John R., 3,687,682.
- Purko, Myro: *See—*
Williamson, Wayne T.; and Purko, Myro, 3,635,734.
- Purland, Donald A.; and Gustafson, Alan M., to Detection Sciences, Inc. Digital timing system. 3,646,751, 3-7-72, Cl. 58-152.
- Purmalis, Laimon Karlovich: *See—*

- Demidov, Vladimir Vasilievich; Goldstein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov, Nikolai Nikolaevich; Purmalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev, Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and Rits, Leonid Borisovich, 3,683,683.
- Purnell, John M., to Grovhac, Inc. Spray gun. 3,667,682, 6-6-72, Cl. 239-412.000.
- Purnell, Merton V., to Watkins-Johnson Company. Periodic permanent magnet focused travelling wave tube. 3,684,914, 8-15-72, Cl. 315-3.500.
- Purolator, Inc.: *See—*
Hammer, Kurt F.; and Meyer, Wilbur A., 3,651,827.
- Purolator Products, Inc.: *See—*
Hammer, Kurt F., 3,646,906.
- Purpura, August C.: *See—*
Bloomfield, Harold; and Purpura, August C., 3,632,025.
- Purr, Horst: *See—*
Kittel, Arthur; Frank, Rudi; and Purr, Horst, 3,643,775.
- Purrer, Josef, to Maschinenfabrik Fahr Aktiengesellschaft. Pivot assembly for haymaking machines and the like. 3,638,977, 2-1-72, Cl. 287-99.
- Purrer, Josef, to Maschinenfabrik Fahr AG. Field harvester for row crops. 3,705,482, 12-12-72, Cl. 56-13.900.
- Purrmann, Robert: *See—*
Schmitt, Werner; Purrmann, Robert; Jochum, Peter; and Zahler, Wolf-Dietrich, 3,634,400.
- Pursell, Herbert P.: *See—*
Barlow, Jan, Jr.; and Pursell, Herbert P., 3,687,639.
- Purser, Charles Ralph: *See—*
Panther, Richard H.; and Purser, Charles Ralph, 3,646,381.
- Pursley, William C.: *See—*
Franklin, John S.; and Pursley, William C., 3,705,301.
- Pursol Chemical Corporation: *See—*
Garlan, John A., 3,658,459.
- Purt, Gustav; Bosshard, Walter; and Meier, Gerhard, to Cerberus AG. Apparatus for checking operation of smoke detectors. 3,693,401, 9-26-72, Cl. 73-1.00r.
- Purves, Edward R.: *See—*
Bedenk, William T.; and Purves, Edward R., 3,664,848.
- Puryear, David B.: *See—*
Crandall, Stanley C.; and Puryear, David B., 3,693,500.
- Pusch, Dietrich, to Continental Gummi-Werke Aktiengesellschaft. Elastic bearing for motor suspension of motor vehicles. 3,679,158, 7-25-72, Cl. 248-10.000.
- Pusche, Herbert; Sander, Harry; and Neuss, Hans-Wilhelm, to Knapsack Aktiengesellschaft. Safety device for preventing the return movement of electrodes in electric furnaces or similar apparatuses. 3,666,868, 5-30-72, Cl. 13-15.000.
- Puschel, Walter: *See—*
Glockner, Hans; Meier, Ernst; and Puschel, Walter, 3,677,764.
Marx, Paul; Hebb, Ulrich; Otto, Rigobert; Puschel, Walter; and Pelz, Willibald, 3,632,345.
Otto, Rigobert; Pankow, Gerrit; De Cat, Arthur Henri; Puschel, Walter; and Pelz, Willibald, 3,671,257.
Psaar, Hubertus; Puschel, Walter; and Raue, Roderich, 3,684,510.
Vetter, Hans; Danhauser, Justus; Kabitzke, Karlheinz; Marx, Paul; Melzer, Anfried; Pelz, Willibald; and Puschel, Walter, 3,705,035.
- Puschmann, Sigfrid: *See—*
Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfrid, 3,661,903.
- Pusey, Brandon B.: *See—*
Roberts, Walter; Sherrill, Jimmie D.; Pusey, Brandon B.; and Wilkenloh, Frederic N., 3,643,007.
- Pushnig, Godfrey; and Battistone, Nicola. Convertible snow track-wheeled scooter type vehicle. 3,650,342, 3-21-72, Cl. 180-5.
- Puskas, Elek, to Snyder, Steve, Enterprises, Inc. Tape pick-up head demagnetizer. 3,655,924, 4-11-72, Cl. 179-100.2.
- Puskas, William L.: *See—*
Smith, Emile G.; and Puskas, William L., 3,673,432.
- Puskas, William L., to Branson Instruments, Incorporated. Oscillatory circuit for ultrasonic cleaning apparatus. 3,651,352, 3-21-72, Cl. 310-908.1.
- Puskas, William L., to Branson Instruments, Incorporated. Oscillatory circuit for ultrasonic cleaning apparatus. 3,681,626, 8-1-72, Cl. 310-8.100.
- Pussell, Clarence R. Electrically operated temperature sensing assembly. 3,695,112, 10-3-72, Cl. 73-362.0ar.
- Puster, Louis M., to Robertshaw Controls Company. Pneumatic positioning apparatus and parts therefor or the like. 3,633,465, 1-11-72, Cl. 92-13.3.
- Puster, Louis M., to Robertshaw Controls Company. Gage construction and link means therefor. 3,633,535, 1-11-72, Cl. 116-129.
- Puster, Louis M., to Robertshaw Controls Company. Control system and method for operating heat exchanger means and the like. 3,662,948, 5-16-72, Cl. 236-46.
- Puster, Louis M., to Robertshaw Controls Company. Method of making a poppet valve construction. 3,681,832, 8-8-72, Cl. 29-157.10r.
- Puster, Louis M.; and Caldwell, Edward M., to Robertshaw Controls Company. Pneumatic control system and pneumatic control device for such a system or the like. 3,685,789, 8-22-72, Cl. 251-61.200.
- Putch, Samuel W.; and Hutchison, Carl R., to FMC Corporation. Underwater completion expanding tubing hanger. 3,661,206, 5-9-72, Cl. 166-85.
- Putch, Samuel W., to FMC Corporation. Seat mechanism for through bore well heads. 3,679,238, 7-25-72, Cl. 285-144.000.
- Putthet, Robert Raphael; deceased (by Gras, Daniel; legal representative). Process for the continuous hydrolysis of diorganodichlorosilanes. 3,646,093, 2-29-72, Cl. 260-448.2.
- Putin, Enrico. Conveyor rollers. 3,685,636, 8-22-72, Cl. 198-127.000.
- Putkowski, Ladislao (Wladyslaw). Hot runner system. 3,677,682, 7-18-72, Cl. 18-30.0rh.
- Putnam, Richard E., to Westinghouse Electric Corporation. Computer control system for refining and hydrogenation of unsaturated hydrocarbons. 3,653,842, 4-4-72, Cl. 23-253.
- Putman, William F.: *See—*
Kukon, John P.; and Putman, William F., 3,684,217.
- Putnam, David T.; and Tatum, William C., to International Business Machines Corporation. Method for locating printed circuit work piece. 3,647,582, 3-7-72, Cl. 156-3.
- Putnam, David T., to International Business Machines Corporation. Free particle impact machining process and apparatus employing the same. 3,675,373, 7-11-72, Cl. 51-9.000.
- Putnam, John H., Jr.: *See—*
Teel, Dale M.; and Putnam, John H., Jr., 3,657,920.
- Putnam, Monroe P. Reversible chair with a reversible cushion cover. 3,695,691, 10-3-72, Cl. 297-223.000.
- Putnam, Robert C.; and Young, Jeffrey W., to Polaris Chemical Corporation. Flame proofing compositions. 3,676,389, 7-11-72, Cl. 260-29.4va.
- Putscher, Johann: *See—*
Engelsmann, Dieter; Hackenberg, Hubert; Putscher, Johann; and Strittmatter, Rolf, 3,643,100.
Wagner, Karl; Nicolay, Klaus; Schuchardt, Gerhard; and Putscher, Johann, 3,705,539.
- Putscher, Johann; Gersch, Josef; Wiedemann, Otto; and Winkler, Alfred, to Agfa-Gevaert Aktiengesellschaft. Container for photographic film. 3,665,829, 5-30-72, Cl. 95-31.0ca.
- Putscher, Johann, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus for use with impeller-actuated sources of artificial light. 3,705,538, 12-12-72, Cl. 95-11.50r.
- Putt, Frank E., to Town & Country Cleaners Franchises, Inc. Carpet cleaning apparatus. 3,699,607, 10-24-72, Cl. 15-320.000.
- Putt, James Basil, to Bendix Corporation, The. Master cylinder low fluid indicator. 3,678,490, 7-18-72, Cl. 340-244.00e.
- Putt, James Basil, to Bendix Corporation, The. Shunt actuated fluid level sensor. 3,699,561, 10-17-72, Cl. 340-244.00e.
- Putter, Irving, to Merck & Co., Inc. Selective deuteration of tyrosine, aspartic and glutamic acids. 3,699,158, 10-17-72, Cl. 260-519.000.
- Putter, Lothar: *See—*
Mosch, Willi; Lutz, Gerhard; Putter, Lothar; Waldkotter, Erich; and Martin, Heinz, 3,702,954.
- Putter, Rolf: *See—*
Schminke, Hans Dieter; Grigat, Ernst; and Putter, Rolf, 3,642,725.
- Puttock, Eugene F.: *See—*
Perry, William C.; Puttock, Eugene F.; and Schreiber, Ronald S., 3,705,933.
- Putz, Franz: *See—*
Thielen, Heinz; Grundmann, Harald; and Putz, Franz, 3,673,563.
- Putz, Walter: *See—*
Schwab, Johann; and Putz, Walter, 3,635,445.
- Putzer, Murray: *See—*
Sylvander, Frederick B.; Cohen, Richard L.; and Putzer, Murray, 3,649,818.
- Puxbaumer, Hans: *See—*
Schleppinghoff, Bernhard; Scherb, Helmut; and Puxbaumer, Hans, 3,674,883.
- Puyo, Andre: *See—*
Habib, Pierre; and Puyo, Andre, 3,672,658.
- Puyo, Andre; and Habib, Pierre Andre, to Coyne et Bellier, Bureau d'Ingenieurs Conseils, mesne. Reinforcing and prestressing cable. 3,701,554, 10-31-72, Cl. 287-78.000.
- Puyo, Andre Jean-Marie; and Habib, Pierre Andre, to Sherard, James L. Mechanical vibrator. 3,659,464, 5-2-72, Cl. 74-61.
- Puzik, Otto V.: *See—*
De Vito, Angelo R.; and Puzik, Otto V., 3,664,697.
- Puzik, Otto V., to Willow Hill Industries, Inc. Vehicle axle spindle. 3,701,564, 10-31-72, Cl. 301-131.000.
- Puzov, Filimon Efimovich: *See—*

Khrenov, Konstantin Konstantinovich; Gursky, Pavel Ivanovich; Shulman, Grigory Alexandrovich; Klimenko, Gennady Alexeevich; Kirdo, Ivan Viktorovich; Dmitrenko, Georgy Viktorovich; Yagupov, Ivan Nikolaevich; Tsyrlin, Mark Irmovich; Novikov, Anatoly Petrovich; and Puzov, Filimon Efimovich, 3,688,382.

Pwell, Edgar R., to Zimmerman, D. W., Mfg., Inc. Hoist hook control. 3,656,715, 4-18-72, Cl. 254-168.

Pyanov, Valentin Nikiforovich: See—

Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pyanov, Valentin Nikiforovich; Golovkin, Yuri Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.

Pye, Donald George, to Du Pont de Nemours, E. I., and Company. Alumina coated chromium dioxide. 3,687,726, 8-29-72, Cl. 117-234,000.

Pye Limited: See—

Ayers, Peter John Henry, 3,681,669.

Bushman, John Andrew, 3,659,601.

Callender, Max V.; and Cox, Victor J., 3,686,670.

Coussell, Ivan John; and Pattison, Roy, 3,689,843.

Joynes, Peter Leonard; and Maggs, Robert James, 3,706,381.

Kipling, Barry John, 3,695,263.

Lovelock, James E., 3,677,275.

MacLagan, Robert Gordon; and Griffiths, Geoffrey William, 3,684,830.

Nettleship, Robert, 3,683,112.

Wilkinson, Michael Burton, 3,658,422.

Pyke, Thomas R.: See—

Argoudelis, Alexander D.; Coats, John H.; and Pyke, Thomas R., 3,697,380.

Pylaikin, Petr Alexeevich: See—

Efimov, Leonid Alexandrovich; Shtin, Lev Mikhailovich; Sinit-sky, Vladimir Mikhailovich; Khirdzheiv, Sergei Grigorievich; Pylaikin, Petr Alexeevich; Satovskaya, Ljudmila Sergeevna; Grebnev, Nikolai Feodosovich; Rasseikin, Mikhail Grigorievich; Kalugin, Konsantin Yakovlevich; Somov, Boris Stepanovich; and Baranchikov, Vladimir Mikhailovich, 3,678,728.

Pyle, Delbert E.: See—

Fischer, Paul W.; Maly, George P.; and Pyle, Delbert E., 3,653,452.

Pyle, Kenneth E., to Reef-Baker Corporation. Condensate valve. 3,682,194, 8-8-72, Cl. 137-204,000.

Pyle, Loren L.: See—

Jarvela, Gary N.; and Pyle, Loren L., 3,631,836.

Pyle-National Company, The: See—

Exner, William E., 3,691,512.

Pylon Company, Inc.: See—

Cooney, James S., 3,651,401.

Pym, Michael Aren, to Thrissell, Scott Engineering Limited. Electrostatic copying. 3,687,072, 8-29-72, Cl. 101-153,000.

Pynchon, George O.; and Hulse, James H., Jr. Plastic pipe gripping tool. 3,653,284, 4-4-72, Cl. 81-5.1.

Pyne, Anthony E.: See—

Pitzer, Dorman C.; Braddock, Walter B.; Swann, Richard C. G.; and Pyne, Anthony E., 3,649,888.

Pyne, William J.: See—

Adams, Bobby F.; Pyne, William J.; and Gullo, James M., 3,639,608.

Pyramid, Inc.: See—

Smith, Thomas R., 3,672,004.

Smith, Thomas R., 3,698,111.

Pyrites Company, Inc., The: See—

Cook, Lorne F.; and Szmokaluk, Wallace W., 3,666,446.

Pyro-Magnetics Corporation: See—

Southwick, Kenneth J., 3,648,629.

Pyrofilm Corporation: See—

Brady, Hugh B.; Kochis, John L.; and Tischler, Oscar, 3,688,238.

Pyronics Inc.: See—

Sellors, John, Jr.; and Shular, Howard E., 3,676,048.

Pyrotenax Limited: See—

Parker, Herbert William Mansfield, 3,697,671.

Pysnik, Joseph: See—

Prellwitz, Samuel B.; and Pysnik, Joseph, 3,635,082.

Pytlewski, Louis L., to Research Corporation. Soil retardant coating and method for forming the same. 3,676,186, 7-11-72, Cl. 117-69,000.

Pyzewski, Stanley J.: See—

Bowser, George H.; Shoop, Vernon A.; and Pyzewski, Stanley J., 3,657,900.

Bowser, George H.; Shoop, Vernon A.; Pyzewski, Stanley J.; Mazzoni, Renato J.; and Bologna, John P., 3,669,785.

Qatron Corporation: See—

White, Rowland K.; and Lindbeck, Simon L., 3,643,962.

White, Rowland K., 3,682,483.

Qicsys Systems, Inc.: See—

Carter, Robert W.; Chichanowski, Steve; and Chichanowski, Frances, 3,662,225.

Qonaar Corporation: See—

Dominick, George G.; Sciacero, Rinaldo; Weber, Leonard J.; Wimpffen, George I.; and Kardos, Theodore Louis, 3,693,870.

Quaai, John A.; and Spellman, Gordon Bar, to Cutler-Hammer, Inc. Electromagnetic relay. 3,693,120, 9-19-72, Cl. 335-128,000.

Quaal, George J.: See—

Woerner, Lloyd M.; Kivela, William C.; and Quaal, George J., 3,634,116.

Quaal, George J., to Dow Corning Corporation. Lubricant compositions. 3,634,246, 1-11-72, Cl. 252-49.9.

Quaal, George J.; and Lewis, Alfred, to Dow Corning Corporation. Grease composition. 3,689,412, 9-5-72, Cl. 252-49,600.

Quaal, John A.: See—

Becker, Albert H.; Hart, Joseph M.; and Quaal, John A., 3,680,016.

Halbeck, Werner B.; Quaal, John A.; and Robbins, Clyde F., 3,706,100.

Halbeck, Werner B.; Quaal, John A.; Robbins, Clyde F.; Rutchik, Walter L.; and Ryzcek, Lawrence J., 3,706,916.

Quack, Wilbert, to Halophane Company, Inc. Lighting fixture adapted to be mounted on a pole. 3,679,891, 7-25-72, Cl. 240-52,000.

Quackenbush, John J., to National Distillers and Chemical Corporation. Plastic bag flaring apparatus. 3,700,367, 10-24-72, Cl. 425-112,000.

Quackenbush, Nelson E.: See—

Smestad, Dale E.; and Quackenbush, Nelson E., 3,668,174.

Quadflieg, Therese: See—

Hornig, Lothar; and Quadflieg, Therese, 3,642,873.

Hornig, Lothar; Fernholz, Hans; Schmidt, Hans-Joachim; Wunder, Friedrich; and Quadflieg, Therese, 3,658,888.

Quadri Corporation: See—

Bruder, John F., 3,691,541.

Quaedvlieg, Mathieu: See—

Bochmke, Gunther; Hees, Walter; and Quaedvlieg, Mathieu, 3,682,584.

Tamer, Ergun; Hendricks, Udo; and Quaedvlieg, Mathieu, 3,685,951.

Walz, Klaus; Hees, Walter; and Quaedvlieg, Mathieu, 3,640,677.

Walz, Klaus; Hees, Walter; and Quaedvlieg, Mathieu, 3,683,013.

Walz, Klaus; Baecker, Manfred; and Quaedvlieg, Mathieu, 3,684,427.

Quain, Wilbur C., to Lake Center Industries. Control regulator. 3,670,757, 6-20-72, Cl. 137-103,000.

Quaker Industries Inc.: See—

Block, Leonard A.; and Dunn, William J., 3,677,416.

Quaker Oats Company, The: See—

Brown, Lloyd H.; and Klemm, Laurence J., 3,645,942.

Brown, Lloyd H.; and Watson, David D., 3,681,286.

Brown, Lloyd H.; Dunlop, Andrew P.; and Eftax, Daniel S. P., 3,681,287.

Brown, Lloyd H.; Dunlop, Andrew P.; and Eftax, Daniel S. P., 3,681,420.

Brown, Lloyd H.; and Watson, David D., 3,689,299.

Brown, Lloyd H.; and Watson, David D., 3,702,771.

Harwood, Charles C.; and Holtz, William E., Jr., 3,675,855.

Holtz, William E., Jr.; and Reinhart, Robert R., 3,660,110.

Hyldon, Roy G., 3,664,846.

Hyldon, Roy G., 3,664,847.

Martin, Paul A., 3,638,524.

Rodgers, James A., 3,691,675.

Scott, Donald W., 3,659,030.

Wilkinson, Raleigh J., 3,641,923.

Qualich, Amedeo, to Stromberg-Carlson Corporation. Method of making a plated wire memory using a sheet of film adhesive. 3,646,668, 3-7-72, Cl. 29-604.

Qualitrol Corporation: See—

Di Domenico, Italo, 3,656,078.

Romanowski, Robert F., 3,646,970.

Romanowski, Robert F.; and Cellini, Michael, 3,705,964.

Quam, Myron G.: See—

Wald, Milton M.; and Quam, Myron G., 3,706,817.

Quame, Babington A. Recovery of products from plantain wastes in Ghana. 3,649,292, 3-14-72, Cl. 99-4.

Quan, William: See—

Sanders, Ray W.; Keyes, Neil T.; and Quan, William, 3,665,405.

Sanders, Ray W.; Luce, David W.; and Quan, William, 3,705,986.

Quandt, Herbert C., to Union Carbide Corporation. Graphite crucibles for use in producing high quality quartz. 3,655,354, 4-11-72, Cl. 65-24.

Quant, Donald J., to Xerox Corporation. Toner dispenser circuit for electrostatic apparatus. 3,693,581, 9-26-72, Cl. 118-7,000.

Quanta Welding Company: See—

Anderson, David G., 3,666,910.

Anderson, David G.; and Parker, John C., 3,666,912.

Anderson, David G., 3,676,636.

Anderson, David G., 3,676,637.

Quante, Hermann; Neumann, Peter; and Rose, Walter, to Quante, Wilhelm, Wuppertal-Elberfeld, Firma and Rose, Walter, K.G., Firma. Cable splice protector. 3,636,240, 1-18-72, Cl. 174-92.

Quante, Wilhelm, Wuppertal-Elberfeld, Firma: See—

Quante, Hermann; Neumann, Peter; and Rose, Walter, 3,636,240.

Quantic Industries, Inc.: See—

Knight, Sheldon; and McCarron, Kerwin Peter, 3,697,183.

Quantor Corporation: See—

Studley, David K., 3,677,159.

Quantronix Corporation: See—

Daly, Richard T.; and Kaplan, Robert A., 3,636,251.

Quantum, Inc.: See—

Doede, Clinton M.; and Combs, Eugene E., 3,669,719.

Quarenghi, Rodolfo, to American Machine & Foundry Company. Wet processing of tobacco stems. 3,690,328, 9-12-72, Cl. 131-140,000.

Quario, Gian Luigi, to Ghisalba S.p.A. Mutually insulated bridging contacts for heavy currents. 3,694,605, 9-26-72, Cl. 200-166,000.

Quarles, Richard W., Jr.: See—

Brizzolara, Donald F.; and Quarles, Richard W., Jr., 3,682,872.

Quarles, Richard W., Jr., to Du Pont de Nemours, E. I., and Company. Process for preparing perfluoro 3-phenoxypropionic acid. 3,694,499, 9-26-72, Cl. 260-521,000.

Quarmby, Robert C.: See—

Clarke, Terence J. L.; Quarmby, Robert C.; and Dennis, Kenneth, 3,662,788.

Matts, George A.; and Quarmby, Robert C., 3,705,609.

Quarmby, Robert Charles: See—

Spanton, Robert George; Wakefield, Gordon Cecil John; Quarmby, Robert Charles; and Clarke, Terence James Leonard, 3,662,923.

Quartermus, George D.: See—

Thompson, Donald F.; Quartermus, George D.; and Quinn, Thomas M., 3,672,944.

Thompson, Donald F.; and Quartermus, George D., 3,695,923.

Quasar Microsystems, Inc.: See—

Baum, Elliot; and Loewengart, Harry R., 3,652,876.

Quase, Harold G., to Underwater Storage, Inc. Liquid separation apparatus. 3,656,623, 4-18-72, Cl. 210-242.

Quase, Harold G., to Underwater Storage, Inc. Storm sewage treatment. 3,674,687, 7-4-72, Cl. 210-86,000.

Quase, Harold Gerson, to Underwater Storage, Inc. Underwater storage system. 3,655,051, 4-11-72, Cl. 210-88.

Quase, Harold Gerson, to Underwater Storage, Inc. Collapsible floatable submersible and towable containers with resistant layers. 3,659,108, 4-25-72, Cl. 250-108.

Quassar Microsystems, Inc.: See—

Loewengart, Harry R., 3,681,914.

Quast, Gilbert W.: See—

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Quatrano, John, to Bendix Corporation. The. Plate-type air valve carburetor. 3,695,592, 10-3-72, Cl. 261-50,000.

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Quay Dynamics Limited: See—

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Hamilton, Douglas D.; and Boivin, Joseph J. R., 3,642,041.

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Lipowski, Stanley A.; and Queen, John C., Jr., 3,703,563.

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Queenan, James F.: See—

Tufts, Donald W.; Burt, Ralph E.; Davis, Victor I., Jr.; Queenan, James F.; Maloon, Richard A.; and Waterman, David W., 3,696,235.

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Dueltgen, Ray L.; and Queener, Carl A., 3,682,689.

Queener, Carl A., to International Business Machines Corporation. Copying system featuring combined developing-cleaning station alternately activated. 3,647,293, 3-7-72, Cl. 355-15.

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Kamachi, Shig K.; and Lancaster, Roy, 3,636,979.

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Bouthors, Pierre; and Quemerais, Philippe, 3,690,192.

Quenneville, Raymond N., to United Aircraft Corporation. Drive released coil brake with a pump brake. 3,631,951, 1-4-72, Cl. 192-8.

Quenot, Andre, to Manufacture Quenot Mabo. Folding measuring instrument with improved linkage members. 3,673,692, 7-4-72, Cl. 33-118,000.

Quenot, Andre, to Manufacture "Quenot Mabo". Tape measures. 3,675,334, 7-11-72, Cl. 33-138,000.

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Quenouille, Georges Emile: See—

Neuville, Claude Marie Daniel; Quenouille, Georges Emile; Squarioni, Andre; and Laurent, Jean-Joel Marcel Gustave, 3,662,366.

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Query, Lester Richard, to Bunker-Ramo Corporation. The. Pulse-characteristic modifying circuit. 3,652,944, 3-28-72, Cl. 328-168.

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Moran, John J.; and Query, Robert C., 3,653,556.

Query, Grady W. Remote storage arrangement for dishwashing treating agent. 3,707,160, 12-26-72, Cl. 137-209,000.

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Quest Electronics Corporation: See—

Stevens, Alan F.; and Bergson, Arnold A., 3,697,973.

Quest, Karl; Heckmann, Werner; and Knabe, Uwe, to Holstein & Kappert, Maschinenfabrik Phonix GmbH. Bottle capping machine. 3,643,398, 2-22-72, Cl. 53-77.

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Trost, Joseph C.; Bock, Robert V.; Gerbstadt, Frederick H.; Graham, William J.; Miles, Wilson D.; and Questa, Charles R., 3,675,209.

Questor Corporation: See—

Kusel, Edward J., 3,704,005.

Langieri, Michael, Jr.; and Watts, Lennox, 3,706,876.

Mette, Herbert B., 3,664,535.

Rousey, Donald L., 3,645,192.

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Queyrel, Paul J.; and Koenig, Jerome O., to Mill Polishing Corporation. Process for improving surface finish on clad aluminum sheets. 3,651,604, 3-28-72, Cl. 51-317.

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Lhonore, Pierre; Quibel, Jacques; and Senes, Michel, 3,644,100.

Senes, Michel; Lhonore, Pierre; and Quibel, Jacques, 3,644,557.

Quichaud, Claude: See—

Le Peuviedic, Jean Pierre; and Quichaud, Claude, 3,693,428.

Quick Cable Corporation: See—

Julian, Robert A., 3,694,798.

Shannon, John K., 3,695,336.

Quick, Carolyn M., to Shell Oil Company. Glycidamides for inducing a tranquilizer response. 3,646,211, 2-29-72, Cl. 424-278.

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 Quick, Graeme R., to Iowa State University Research Foundation. Combine cleaning blower. 3,664,349, 5-23-72, Cl. 130-27.
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 Quick, Graeme R., to Iowa State University Research Foundation. Fruit and vegetable harvesting device. 3,704,576, 12-5-72, Cl. 56-330.000.
 Quick, Irvin, to General Motors Corporation. Shaft coupling locking device and tool for installation thereof. 3,631,688, 1-4-72, Cl. 64-9.
 Quick, Lester K. Refrigeration system oil separator. 3,633,377, 1-11-72, Cl. 62-192.
 Quick, Lester K. Air cooled condenser arrangement. 3,645,107, 2-29-72, Cl. 62-183.
 Quick, Lester K. Refrigeration system with hot gas defrosting. 3,645,109, 2-29-72, Cl. 62-196.
 Quick Service Textiles, Inc.: See—
 Miller, Samuel E., 3,648,632.
 Miller, Samuel E., 3,663,963.
 Miller, Samuel E., 3,680,509.
 Miller, Samuel E., 3,703,730.
 Quick-Cable Corporation: See—
 Shannon, John K.; and Shannon, John K., Jr., 3,694,799.
 Quickle, Charles F., Jr.: See—
 Burwell, Wayne G.; and Quickle, Charles F., Jr., 3,694,770.
 Quickmaid Rental Service Limited: See—
 Proops, Sydney E., 3,656,145.
 Quickmaid Vending Services Limited: See—
 Galpin, Harold Henry, 3,651,466.
 Quigg, Donald J.; and Short, James N., to Phillips Petroleum Company. Lactone-diene-vinyl aromatic terpolymer emulsions. 3,645,947, 2-29-72, Cl. 260-28.5.
 Quigg, Donald J. Blade and anvil pinch-off with compression sealing means. 3,692,453, 9-19-72, Cl. 425-326.000.
 Quigley Company, Inc.: See—
 Dreyling, Alfred P.; and Dreyling, Lewis J., 3,656,977.
 Quigley, Garnet H.: See—
 Nightingale, Paul Leslie; and Quigley, Garnet H., 3,650,586.
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 Beddows, Norman A.; Quigley, John A.; and Wielt, Warren P., 3,675,058.
 Quigley, Norman R.; and Hansen, Marvin E. Directional grain chutes. 3,675,752, 7-11-72, Cl. 192-5.000.
 Quila, Werner: See—
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 Quiles, Francisco K., to Phillips Petroleum Company. Dual-drum dryer. 3,678,598, 7-25-72, Cl. 34-128.000.
 Quiles, Jean Pierre: See—
 Chene, Marcel; Quiles, Jean Pierre; and Lafaye, Jean Francis, 3,657,066.
 Quilez, Juan Jose Mas. Distributor for electric current. 3,651,443, 3-21-72, Cl. 339-20.
 Quillet, Jean-Pierre: See—
 Gerin, Paul; Louat, Lucien; and Quillet, Jean-Pierre, 3,699,215.
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 Quillinan, John H.; and Mackey, Edward F., to General Electric Company. Muzzle flash detector. 3,699,341, 10-17-72, Cl. 250-83.30h.
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 Quindar Electronics, Inc.: See—
 Epstein, Philip L., 3,681,696.
 Quine, John P., to General Electric Company. Microstrip microwave oscillators. 3,680,002, 7-25-72, Cl. 331-96.000.
 Quiney, Kenneth Maurice, to Girling Limited. Internal shoe drum brakes. 3,666,058, 5-30-72, Cl. 188-106.
 Quinio, Jacques L.: See—
 Leipp, Emile A.; Castellengo, Michele M. T.; Lienard, Jean-Sylvain R.; Quinio, Jacques L.; Sapaly, Jean; and Teil, Daniel G., 3,632,887.
 Quinlan, Joseph B.; and Williams, Paul E., to United States of America, Army. Ammunition cartridge. 3,645,206, 2-29-72, Cl. 102-40.
 Quinlan, Joseph B., to United States of America, Army. Ammunition round. 3,688,698, 9-5-72, Cl. 102-38.000.
 Quinlan, Joseph B.; and Van Artsdalen, Earl F., to United States of America, Army. High temperature-resistant waterproof caseless primer. 3,698,319, 10-17-72, Cl. 102-45.000.
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 Quinlan, Patrick M.: See—

- Mange, Franklin E.; Buriks, Rudolf S.; and Quinlan, Patrick M., 3,657,145.
 Quinlan, William J.; and Huver, Lawrence L., to Hastings Manufacturing Company. Method of making a backing strip for a windshield wiper blade. 3,696,497, 10-10-72, Cl. 29-407.000.
 Quinlan, William J.; and Huver, Lawrence L. Detachable windshield wiper blade unit. 3,702,490, 11-14-72, Cl. 15-250.420.
 Quinn, Bert A. Door closer. 3,665,549, 5-30-72, Cl. 16-52.000.
 Quinn, Clayton E. Aquarium having built-in means to prevent cannibalism. 3,651,785, 3-28-72, Cl. 119-5.
 Quinn, Daniel P. Collapsible barbecue apparatus. 3,648,679, 3-14-72, Cl. 126-25.
 Quinn, Edward J.: See—
 Lin, Kingso C.; Quinn, Edward J.; and MacKay, John K., 3,642,585.
 Quinn, Edward J.; and MacKay, John K., to Hooker Chemical Corporation. Process for metal plating of substrates. 3,642,584, 2-15-72, Cl. 204-30.
 Quinn, Edward J., to Hooker Chemical Corporation. Metalizing substrates. 3,655,531, 4-11-72, Cl. 204-30.
 Quinn, Edward R.: See—
 Pearson, Walter C.; Quinn, Edward R.; and Thompson, Dorman N., 3,637,455.
 Quinn, Edwin J.: See—
 Heckles, John S.; and Quinn, Edwin J., 3,694,430.
 Quinn, Edwin J., to Uniroyal, Inc. Difunctionally terminated polymers and method of their preparation. 3,668,243, 6-6-72, Cl. 260-535.
 Quinn, Frederic R., to Zytron Industries, Inc. Rapidly acting condition responsive switch. 3,651,351, 3-21-72, Cl. 307-310.
 Quinn, Governor V., to Three-Line Research and Developments Company, Inc. Training hurdle. 3,685,824, 8-22-72, Cl. 272-59.00c.
 Quinn, Gregory F.: See—
 Kanstul, Zigmant J.; and Quinn, Gregory F., 3,641,863.
 Quinn, Halsey P., to Wagner Electric Corporation. Light-regulating power supply circuit for gaseous discharge lamp. 3,681,654, 8-1-72, Cl. 315-151.000.
 Quinn, Halsey P., to Wagner Electric Corporation. Voltage and current regulated power supply circuit for gaseous discharge lamp. 3,689,827, 9-5-72, Cl. 323-20.000.
 Quinn, Jack C., to Ticket Reservation Systems, Inc. Computer controlled vending system. 3,688,276, 8-29-72, Cl. 340-172.500.
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 Quinn, John N., 1/2 to Johnson Muller & Equipment Co., Inc. Crushing plant. 3,670,972, 6-20-72, Cl. 241-76.000.
 Quinn, Lawrence P.: See—
 Arlen, David; Guido, Louis A.; and Quinn, Lawrence P., 3,707,634.
 Quinn, Rex B.: See—
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 Quinn, Richard D., to Hughes Aircraft Company. Digital phase shift frequency synthesizer. 3,657,635, 4-18-72, Cl. 321-69.00r.
 Quinn, Robert C.: See—
 Coleman, William H.; Quinn, Robert C.; Novak, Howard L.; Kalbach, Jack J.; and Jones, Seward L., 3,658,438.
 Quinn, Robert Ellis: See—
 Boggs, Beryl Aaron; and Quinn, Robert Ellis, 3,641,836.
 Quinn, Thomas M.: See—
 Thompson, Donald F.; Quartermus, George D.; and Quinn, Thomas M., 3,672,944.
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 Quinn, Thomas M.; and Villanueva, James G., to Standard Oil Company (Indiana). Modified polyolefin compositions. 3,652,473, 3-28-72, Cl. 260-23.
 Quinones, Nicanor Quinones: See—
 Howell, Charles Frederick; Hardy, Robert Allis Jr.; and Quinones, Nicanor Quinones, 3,663,696.
 Howell, Charles Frederick; Hardy, Robert Allis, Jr.; and Quinones, Nicanor Quinones, 3,681,357.
 Quint, Ferdinand: See—
 Schafer, Gustav; and Quint, Ferdinand, 3,652,602.
 Quint, Stephen Mark; and Dalton, John Junior, to Johns-Manville Corporation. Coating for water containing hydraulic cement articles. 3,676,196, 7-11-72, Cl. 117-96.000.
 Quintal, Bertram S., to Energy Sciences, Inc. Apparatus for the method of producing an energetic electron curtain. 3,702,412, 11-7-72, Cl. 313-299.000.
 Quintana, Pedro. Dust removing attachment device for power grinders. 3,646,712, 3-7-72, Cl. 51-273.
 Quintana, Ronald P.; Garson, Lorrin R.; and Lasslo, Andrew, to United States of America, Army. Straight chain aliphatic carboxylic acid monoesters of 1,3-dihydroxy-2-propanone. 3,668,226, 6-6-72, Cl. 260-410.600.

- Quintilla, Juan Miquel. Pyridazone compounds and process for their production. 3,657,243, 4-18-72, Cl. 260-250.
 Quintin, Albert Andre Joseph, to Compagnie des Metaux d'Overpelt-Lommel et de Corphalie. Refining of impure metals. 3,632,334, 1-4-72, Cl. 75-63.
 Quinton Instrument Company: See—
 Quinton, Wayne E., 3,659,845.
 Quinton, Wayne E., to Quinton Instrument Company. Exercise treadmill and belt support apparatus. 3,659,845, 5-2-72, Cl. 272-69.
 Quioque, Virgilio J.: See—
 Reynolds, Robert J.; and Quioque, Virgilio J., 3,668,665.
 Quiram, Ronald G.; and Eichner, Don W., to Outboard Marine Corporation. Variable speed reducer. 3,661,036, 5-9-72, Cl. 74-800.
 Quiram, Ronald G., to Poloron Products of Indiana, Inc. Elevating apparatus for tractor attachments. 3,706,188, 12-19-72, Cl. 56-11.600.
 Quiring, Allan Joseph: See—
 Hunsaker, Floyd Melvin; and Quiring, Allan Joseph, 3,644,774.
 Quiros, Vincente Rodriguez. Condensate discarding device for air conditioner. 3,651,660, 3-28-72, Cl. 62-279.
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 Quist, Eric G.: See—
 Kaplan, Martin; Hansen, Donald E.; and Quist, Eric G., 3,703,000.
 Quoos, Kurt: See—
 Takriti, Nassir; Quoos, Kurt; Leifeld, Ferdinand; and Appenzeller, Valentin, 3,683,649.
 Qutogue, Virgilio J., to Burroughs Corporation. Timing track with discontinuity. 3,696,353, 10-3-72, Cl. 340-174.10a.
 R & L Molecular Research Ltd.: See—
 Lemieux, Raymond Urgel; and Raap, Rintje, 3,654,294.
 Lemieux, Raymond Urgel; and Raap, Rintje, 3,657,232.
 R. I. Patents, Inc.: See—
 Margrave, John L.; Badachhapp, Ramachandra B.; Wood, James L.; and Lagow, Richard J., 3,674,432.
 R&L Molecular Research Ltd.: See—
 Lemieux, Raymond Urgel; and Raap, Rintje, 3,663,540.
 R-J-R, Corporation: See—
 Moore, R. D., 3,672,910.
 Raab, Andrew F., to Indak Manufacturing Corporation. Electrical switches with external return springs. 3,668,353, 6-6-72, Cl. 200-153.00k.
 Raab, Harry F., Jr.: See—
 Beaudoin, Benoit R.; Cohen, Joseph D.; Jones, David H.; Marier, Lester J., Jr.; and Raab, Harry F., Jr., 3,671,392.
 Raab, Lester R.; and Toby, Dennis E., to Addressograph-Multigraph Corporation. Liquid developing apparatus. 3,640,203, 2-8-72, Cl. 95-89.
 Raabe, Erwin M., to Rheem Manufacturing Company. Production of plastic containers. 3,651,202, 3-21-72, Cl. 264-292.
 Raabe, George A.: See—
 Schlesinger, Robert J.; and Raabe, George A., 3,647,959.
 Raacke, Karl H.: See—
 Hohl, Jakob H.; and Raacke, Karl H., 3,654,109.
 Raad, Ralph R. Pneumatic transportation of materials and apparatus therefor. 3,656,811, 4-18-72, Cl. 302-23.
 Raaf, Helmut Wilhelm: See—
 Beutel, Rolf Ernst; and Raaf, Helmut Wilhelm, 3,674,859.
 Raago, Rein, to Wagner Electric Corporation. Fluorescent symbol display tube having plural cathodes and/or vacuum anode insulation. 3,688,147, 8-29-72, Cl. 313-108.00r.
 Raalf, Hans: See—
 Buning, Robert; Raalf, Hans; and Pungs, Wolfgang, 3,640,930.
 Raap, Rintje: See—
 Lemieux, Raymond Urgel; and Raap, Rintje, 3,654,294.
 Lemieux, Raymond Urgel; and Raap, Rintje, 3,657,232.
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 Raasch, Maynard S.: See—
 England, David C.; Raasch, Maynard S.; and Sheppard, William Arthur, 3,694,460.
 Rab, Harry, to Singer Company, The. Film cassette. 3,645,434, 2-29-72, Cl. 226-196.
 Rab, Joseph, to Knit Tech Development Corporation. Method and apparatus for forming a rib fabric having a two-ply section. 3,672,186, 6-27-72, Cl. 66-25.000.
 Rabadeux, Andre: See—
 Tocque, Yves; and Rabadeux, Andre, 3,706,999.
 Raban, Joachim; Erleben, Ewald; and Wildenau, Wolfgang. Process for making tobacco smoke filters. 3,677,806, 7-18-72, Cl. 117-104.00r.
 Rabatin, Jacob G.: See—
 Gillooly, George R.; and Rabatin, Jacob G., 3,647,707.
 Rabatin, Jacob G.; and Bradshaw, Evelyn, to General Electric Company. Terbium activated rare earth oxyhalide phosphors containing ytterbium for reduced afterglow. 3,666,676, 5-30-72, Cl. 252-301.4.
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 Rabens, Neil W.: See—
 Foley, Charles F.; McCarthy, Charles D.; and Rabens, Neil W., 3,647,218.
 Rabideau, Gerald T., to Mio Marine Corporation. Knockdown pontoons for portable boats and the combination thereof. 3,664,285, 5-23-72, Cl. 114-5.
 Rabiger, Wolfgang, to Grundig E.M.V. Kurgartenstrasse. Process for control and regulation of double piston-driven engine with hydrostatic motion transducers. 3,702,057, 11-7-72, Cl. 60-19.000.
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 Rabinovich, Isosif Moiseevich: See—
 Ilayashenko, Georgy Alexandrovich; Laventman, Vilyam Efimovich; Lichman, Nikolai Isosifovich; Rabinovich, Isosif Moiseevich; and Ryaboi, Nikolai Yakovlevich, 3,632,281.
 Rabinovich, Mikhail Yakovlevich: See—
 Veroman, Viktor Jurievich; Rozanov, Vladimir Alexeevich; and Rabinovich, Mikhail Yakovlevich, 3,673,372.
 Rabinovich, Oleg Yakovlevich: See—
 Shmidrov, Jury Petrovich; Elektrostral, Moskovskaya Oblast; Mogilevkin, Felix Davydovich; and Rabinovich, Oleg Yakovlevich, 3,683,664.
 Rabinovitch, Leonard; trading as Mini Billboard Advertising Regd.: See—
 Striegl, George; and Timm Otto, 3,659,745.
 Rabinovitz, Elsa: See—
 Raviv, Samuel; Rabinovitz, Elsa; and Malkiely, Shimon, 3,635,805.
 Rabinow, Jacob: See—
 Apstein, Maurice; Blomgren, Evert; Keehn, George R.; Andrews, Laurence M.; and Rabinow, Jacob, 3,698,323.
 Rabinow, Jacob, 1/10 to Libman, Max L. Rumble tester for phonographs. 3,653,255, 4-4-72, Cl. 73-67.
 Rabinow, Jacob, 1/10 to Libman, Max L. Electrical lowering and lifting mechanism for phonograph tone arms. 3,675,932, 7-11-72, Cl. 274-23.00a.
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- Thrower, Keith R., 3,702,441.
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- Strumor, Mathew A.; Rachwal, Ervin J.; Campbell, Douglas B.; and Marculewicz, Robert W., 3,639,059.
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- Suling, Carlhans; Logemann, Heino; Kramer, Dieter; Rachwalsky, Heinz; and Marzolph, Herbert, 3,644,265.
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- Stougaard, Chris, 3,635,133.
- Racine Railroad Products, Inc.: *See—*
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- Raczak, Earl F., to Bio/Data Corporation. Pipette. 3,656,351, 4-18-72, Cl. 73-425.6.
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- Rada, Joseph J., to Container Corporation of America. Locking construction for telescoping container elements. 3,642,193, 2-15-72, Cl. 229-45.
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- Adams, Harvey Keith, 3,701,436.
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- Spangler, Carl D., Jr.; Radd, Frederick J.; and Wolfe, Louis H., 3,704,333.
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- Mackey, Bruce Alexander, Jr.; and Naureckas, Edward Martin, 3,656,264.
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- Davidson, Jimmy L.; and Rouse, George V., 3,699,722.
- Montgomery, Robert M., 3,634,749.
- Pietsch, Roy; and Lewis, Bernard L., 3,675,989.
- Roberts, Howard N., 3,664,721.
- Sciambi, Attilio F., Jr., 3,696,434.
- Vander Lugt, Anthony, 3,652,144.
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- Packin, Milton; and Seid, Bernard, 3,683,181.
- Vizzini, Thomas A.; and Grat, Felix R., 3,683,183.
- Radiation Research corporation: *See—*
- Burks, Robert E., Jr., 3,681,296.
- Jarovitzky, Peter A.; and Maynor, Frederick L., 3,681,293.
- Jarovitzky, Peter A., 3,681,294.
- Jarovitzky, Peter A., 3,681,295.
- Jarovitzky, Peter A., 3,682,869.
- Jarovitzky, Peter A., 3,683,046.
- Peters, Edward M., 3,686,066.
- Sargent, Donald E., 3,647,764.
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- Carpenter, Earl W.; and Hill, Jerome E., 3,634,768.
- Radici, Pierino: *See—*
- Ackermann, Jacob; Bianchi, Gaudenzio; and Radici, Pierino, 3,632,686.

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- Hartling, Donald C.; Joseph, Hawthorne; and Radin, William, 3,698,125.
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- Schwake, William O., 3,668,334.
- Radiometer A/S: *See—*
- Kisten, Jurgen Manfred, 3,676,319.
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- Radke, Arthur O. Slide rail assembly for a vehicle seat. 3,692,272, 9-19-72, Cl. 248-429.000.
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- Radke, Donald G., to Allied Chemical Corporation. Pressure relief panels for gas bag equipped vehicles. 3,694,003, 9-26-72, Cl. 280-150.00b.
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- Seiferth, Oscar E.; Goller, Robert L.; Grindrod, Paul E.; and Radloff, Harry L., 3,647,485.
- Radlove, Sol B. Dietary dry cake mix. 3,658,553, 4-25-72, Cl. 99-94.
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- De Fabritis, Raymond P.; Fefferman, Gerald Burt; Gesner, Bruce David; and Radner, Raymond John, 3,699,552.
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- Rado, Ramesh P., to Fiberglas Canada Limited. Method for insolubilizing sodium silicate foam. 3,663,249, 5-16-72, Cl. 106-75.000.
- Radobenko, William, to Automated Equipments Corporation. Die bonder apparatus. 3,695,501, 10-3-72, Cl. 228-3.000.
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- Malchman, Franklin L.; and Radoi, William J., 3,686,634.
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- Thompson, Gene C.; Radomski, Joseph E.; and Wilson, David E., 3,680,220.
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- Mahr, Renc N.; Radoux, Henri Joseph; and Burton, Clement E., 3,662,696.
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- Damm, Eugene P., Jr.; Grobin, Allen W., Jr.; Herel, Edwin H.; and Radovsky, David A., 3,645,859.
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- Fritsch, Werner; Haede, Werner; Radscheit, Kurt; Stache, Ulrich; and Lindner, Ernst, 3,639,392.
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- Rady-Pentek, Arthur A.: *See—*
- Robertson, Alan L.; and Rady-Pentek, Arthur A., 3,638,381.
- Radzins, Edmund: *See—*
- Kiela, Gene F.; and Radzins, Edmund, 3,691,915.
- Radziwill, Anthony N.: *See—*
- Moseley, John C.; Schaffer, Rupert E.; and Radziwill, Anthony N., 3,647,527.
- Rac, Barney O.: *See—*
- Cotton, Ronald K.; and Rae, Barney O., 3,677,420.
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- Raether, Wolfgang: *See—*
Schorr, Manfred; Mieth, Hubert; and Raether, Wolfgang, 3,639,412.
- Raettig, Hansjürgen, to Schering A.G. Orally administrable polyvalent vaccines for intestinal infections. 3,651,214, 3-21-72, Cl. 424-92.
- Raetz, James R.: *See—*
Smith, John L.; Dent, Robert A.; and Raetz, James R., 3,641,746.
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- Raetzsch, Carl W.; Van Hoozer, John F.; and Cunningham, Hugh, to PPG Industries, Inc. Alkali chlorine cell. 3,650,939, 3-21-72, Cl. 204-219.
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Dyskin, Ernest Matveevich; Raevsky, Georgiy Vladimirovich; Biletsky, Semen Mikhailovich; Burmenko, Eduard Jurievich; Grosman, Erikh Ruvimovich; Satanovsky, Abram Lazarevich; Kremnev, Oleg Alexandrovich; Zhuravlenko, Viktor Yakovlevich; and Protsyshin, Boris Nikolaevich, 3,687,434.
- Raeymaekers, Alfons Herman Margaretha: *See—*
Van Gelder, Josephus Ludovicus Hubertus; Roevens, Leopold Frans Corneel; and Raeymaekers, Alfons Herman Margaretha, 3,657,267.
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Billot, Jean, 3,670,654.
- Raiff, Paul: *See—*
Falkenstein, Georg; Peine, Hans Georg; Doerfel, Helmut; Raff, Paul; and Schuster, Ludwig, 3,703,595.
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- Raffaelli, Milo L., Sr.: *See—*
Scholl, Carl W.; and Raffaelli, Milo L., Sr., 3,655,477.
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- Raffel, Marvin J. Massaging chair. 3,653,375, 4-4-72, Cl. 128-33.
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- Raffensperger, Stanley P.: *See—*
Drews, Harvey J.; and Raffensperger, Stanley P., 3,671,264.
- Rafferty, Edson Howard; and Kletschka, Harold D. Electrically-driven pumps capable of use as heart pumps. 3,647,324, 3-7-72, Cl. 417-420.
- Rafferty, John E. Rescue device for linemen. 3,647,171, 3-7-72, Cl. 248-221.
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Smith, Walter J.; and Rafferty, John W., 3,655,427.
- Rafferty, Richard L.: *See—*
Gardner, Willis W.; and Rafferty, Richard L., 3,631,834.
- Raffinerie Tirlémontoise: *See—*
Duchateau, Georges Francois; and Vanherwegen, Ferdinand Joseph, 3,660,042.
- Jacques, Pierre, 3,655,645.
- Rafi Raimund Finsterholzl Elektrotechnische Spezialfabrik: *See—*
Hubrich, Rudolf, 3,668,596.
- Pfeffer, Josef, 3,657,685.
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Lichte, Norbert, 3,681,741.
- Rafuse, Mary J., to Sperry Rand Corporation. Liquid crystal compositions and devices. 3,675,987, 7-11-72, Cl. 350-160,000.
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Clardy, Edwin K.; and Ragains, Wilbur G., 3,653,844.
- Ragan, Brad, Inc.: *See—*
Morgan, Harvey E.; Suttle, Theodore; and Schenck, Jackson C., 3,646,984.
- Ragan, Lawrence H.; and Pratt, Charles R., to Collins Radio Company. Planar R. F. load resistor for microstrip or stripline. 3,678,417, 7-18-72, Cl. 333-22,00r.
- Ragard, Phillip A., to Universal Instruments Corporation. Lead cut and clinch mechanism. 3,646,659, 3-7-72, Cl. 29-203.
- Ragard, Phillip A., to Universal Instruments Corporation. Rotary positioner. 3,696,713, 10-10-72, Cl. 92-121,000.
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- Ragazzini, Mario; Caimi, Alberto; Carcano, Donato; and Groppelli, Giovanni, to Montecatini Edison S.p.A. Process for concentrating aqueous emulsions of fluorinated polymers. 3,668,167, 6-6-72, Cl. 260-29,60f.
- Ragen, Robert A., to Singer Company, The. Electronic desk top calculator having a delay line and automatic decimal alignment. 3,634,666, 1-11-72, Cl. 235-156.
- Ragen, Robert A., to Singer Company, The. Serial adder/subtractor utilizing counters. 3,676,658, 7-11-72, Cl. 235-176,000.
- Ragen, Robert A.; Herendeen, Carl E.; and Wood, Gary R., to Singer Company, The. Zero suppression circuit. 3,678,471, 7-18-72, Cl. 340-172,500.
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- Rager, Donald D.; Heflin, Robert L.; and Wilcox, Dana V., to Reynolds Metals Company. Apparatus for and method of joining stranded cable. 3,634,649, 1-11-72, Cl. 219-137.
- Ragetti, Christian, to Van Leer (U.K.) Limited. Sheet metal container. 3,690,504, 9-12-72, Cl. 220-42,00c.
- Raggi, Lodovico, to Associated Engineering Limited. Variable camshaft mechanism. 3,633,555, 1-11-72, Cl. 123-90,17.
- Ragi, Elias George, to Union Carbide Corporation. Composite structure for boiling liquids and its formation. 3,684,007, 8-15-72, Cl. 165-133,000.
- Ragland, Douglas, to Texas Investment Builders Co. Air diffuser. 3,673,946, 7-4-72, Cl. 98-40,00d.
- Ragland, Douglas, to Ragland Manufacturing and Construction Company. Door frame assembly. 3,676,966, 7-18-72, Cl. 52-211,000.
- Ragland, Eyan L., II: *See—*
Wagner, Robert L.; and Ragland, Eyan L., II, 3,669,237.
- Ragland, Frank Rowland, Jr., to RCA Corporation. Method for making a light intensity correction filter. 3,676,129, 7-11-72, Cl. 96-38,300.
- Ragland, Frank Rowland, Jr., to RCA Corporation. Method of assembling and mounting an aperture mask in a mask-panel assembly of a cathode-ray tube using a full surface spacer. 3,701,193, 10-31-72, Cl. 29-25,150.
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Ragland, Douglas, 3,676,966.
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- Ragni, Luigi, to Oxford Electric Corporation. Magnetic switch apparatus. 3,691,490, 9-12-72, Cl. 335-205,000.
- Ragot, Jean-Calude: *See—*
Chekroun, Rene; and Ragot, Jean-Calude, 3,652,826.
- Ragout, Bernard: *See—*
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- Ragsdale, Charles W., to United States of America, Army. One-shot monostable multivibrator. 3,699,360, 10-17-72, Cl. 307-273,000.
- Ragsdale, Harold E., to Bechtel International Corporation. Method and apparatus for pumping slugs of coal slurry without passing slurry through the pumping station. 3,678,950, 7-25-72, Cl. 137-1,000.
- Ragsdale, Robert G.; and Payne, Paul E., to Milgo Electronic Corporation. Differential phase modulator and demodulator utilizing relative phase differences at the center of the modulation periods. 3,643,023, 2-15-72, Cl. 178-67.
- Ragsdale, Robert Gordon, to Milgo Electronic Corporation, mesne. Data modem having phase, frequency and amplitude distortion compensating means. 3,644,830, 2-22-72, Cl. 325-42.
- Raguait, Beatrice. Immersion heater element. 3,674,985, 7-4-72, Cl. 219-523,000.
- Raguse, Roger C., to Scholl Mfg. Co., Inc., The. Pressure sensitive adhesive mass. 3,660,323, 5-2-72, Cl. 260-5.
- Rahaim, Thomas J.; and Mierley, George M., Sr., to Westinghouse Electric Corporation. Segmented seal assembly. 3,656,862, 4-18-72, Cl. 415-171.
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Klostermann, Heinz, 3,650,409.
- Rahe, Villem: *See—*
Lipp, George D.; Rahe, Villem; and Roberts, Lawrence B., 3,663,195.
- Rahenkamp, Robert A.; and Stewart, William R., Jr., to International Business Machines Corporation. Sentence oriented dictation system featuring random accessing of dictation segments. 3,671,683, 6-20-72, Cl. 179-100,2md.

- Rahman, Abdul R.; and Schafer, Glenn R., to United States of America, Army. Directly edible, compacted and dehydrated fruit bar. 3,705,814, 12-12-72, Cl. 99-204,000.
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Roberts, Carlton E.; Rahn, Hilton N., Jr.; and Reid, Walter E., Jr., 3,700,504.
- Rahn, Horst, to Kienzle Apparate G.m.b.H. Housing arrangement for an apparatus transforming rotary speed into electric signals. 3,679,922, 7-25-72, Cl. 310-89,000.
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El-Mogazi, Mohamed M.; and Rai, Charanjit, 3,704,330.
- RAI Research Corporation: *See—*
Tuwiner, Sidney B., 3,674,669.
- Raible, Hermann: *See—*
Muller, Rudolf; Schinke, Heinz Joachim; and Raible, Hermann, 3,649,003.
- Raible, Karl J., to Aktiengesellschaft fur Brauerei-Industrie. Adsorbent for beverages. 3,676,367, 7-11-72, Cl. 252-451,000.
- Raichel, Daniel; and De Vries, Chris G., to Dathar Corporation. Stereo speaker system. 3,637,039, 1-25-72, Cl. 181-31.
- Raickle, John A., to Industrial Micronics Incorporated. Lapping machine and method. 3,653,160, 4-4-72, Cl. 51-109.
- Raidel, John E., to Ridewell Corporation. Multiple joint tandem suspension. 3,632,128, 1-4-72, Cl. 280-104,5.
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Fischer, Robert E.; Raiff, Lawrence C.; Seybold, James M.; and Zimmerle, Donald F., 3,674,924.
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Andoniev, Sergei Mikhailovich; Kutsykovich, Dorina Borisovna; Gerber, Leonid Moiseevich; Kudinov, Gennady Alexandrovich; Kasyanov, Grigory Ivanovich; Nissenbaum, Tamara Izovna; Raikovsky, Jury Borisovich; Somchenko, Mikhail; and Filipiev, Oleg Vadimirovich, 3,692,103.
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Pelino, William M.; Moenich, Raymond A.; McLean, Benjamin F.; and Hamblin, James C., 3,662,168.
- Railway Supply & Mfg. Co., The: *See—*
Andrews, John W.; Schmiel, William J.; Inman, Gene E.; and Jones, James Phillip, 3,643,416.
- Raimondi, Albert A., to Westinghouse Electric Corporation. Stable journal bearing. 3,680,932, 8-1-72, Cl. 308-121,000.
- Raimondi, Vito O.; and Raimondi, William V., to Beatrice Caramel Apple Co., Inc. Coated apple confection making machine. 3,660,118, 5-2-72, Cl. 99-450,7.
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Raimondi, Vito O.; and Raimondi, William V., 3,660,118.
- Rain Bird Sprinkler Mfg. Corporation: *See—*
Costa, Robert B., 3,658,252.
- Hart, Dennis L.; and Howery, Robert A., 3,677,472.
- Kane, Neil G., 3,654,817.
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Hraby, John O., Jr., 3,684,175.
- Hraby, John O., Jr., 3,633,822.
- Hraby, John O., Jr., 3,640,472.
- Hraby, John O., Jr., 3,643,866.
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- Rainaldi, Nicolino; and Fatutto, Pierluigi, to Montecatini Edison S.p.A. Flame-extinguishing substance comprising 1,2-dibromo-hexafluoropropane. 3,656,553, 4-18-72, Cl. 169-1.
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Getgey, William F.; and Meth, Harry, 3,685,828.
- Meth, Harry; and Greenberg, Allen A., 3,685,936.
- Rainbow Lifeguard Products, Inc.: *See—*
Price, Kenneth E.; and Presby, Edwin E., 3,657,837.
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- Rainer, Norman B., to Morris, Philip, Incorporated. Process for the removal of oil from the surface of a body of water. 3,674,683, 7-4-72, Cl. 210-40,000.
- Rainer, Norman B.; and Wilson, Peter A., to Morris, Philip, Incorporated. Microporous structure and method of making the same. 3,674,722, 7-4-72, Cl. 260-2,50m.
- Rainer, Norman Barry: *See—*
Meneghini, Carlo; Mayer, Richard Eugene; Lazarus, Stanley David; and Rainer, Norman Barry, 3,654,679.
- Raines, Harold J.: *See—*
Van Huffel, Philip L.; Raines, Harold J.; and Martzoleff, Clement L., 3,633,262.
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Burke, George K.; and Raines, Kenneth, 3,638,650.
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- Raines, Stephen; and Kovacs, Csaba A., to Richardson-Merrell Inc. Substituted 2-aminomethylpyrroles. 3,644,397, 2-22-72, Cl. 260-326,3.
- Rainey, Don E. Coin controlled vending apparatus with hydraulic actuating system. 3,702,665, 11-14-72, Cl. 221-301,000.
- Rainey, George E.; Heidmeyer, Donald H.; and Davis, Donald E., to Klenco Corporation. Automatic rail cleaner. 3,641,618, 2-15-72, Cl. 15-312.
- Rainey, James L.: *See—*
Mansfield, Richard C.; and Rainey, James L., 3,640,998.
- Rainone, Nicholas J.: *See—*
De Caro, Aristide R.; and Rainone, Nicholas J., 3,648,094.
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- Rainone, Nicholas J.; and Michael, Jacob F., to Westinghouse Electric Corporation. Electrically-actuable ignitor for passenger restraint system employing an inflatable cushion. 3,695,179, 10-3-72, Cl. 102-70,20r.
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Ursic, Juan S.; and Rains, Cloral O., 3,638,916.
- Rains, Cloral O.; and Mc Cord, Donald M., to Phillips Petroleum Company. Method of bonding nonwoven textile fabrics. 3,660,555, 5-2-72, Cl. 264-126.
- Rains, John K. Swimming pool wall coping. 3,634,892, 1-18-72, Cl. 4-172,21.
- Rains, John W. Compressed cigarette smoke. 3,705,590, 12-12-72, Cl. 131-170,00a.
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Powers, George A., 3,650,559.
- Rainville, Joseph R.: *See—*
Bethune, John H.; Tarzi, Clement A.; Bolton, Michael R.; and Rainville, Joseph R., 3,632,718.
- Rainwater, Julius H., to Kysor Industrial Corporation. Open refrigerated display case with roll-in display racks. 3,690,118, 9-12-72, Cl. 62-250.
- Raion Yushi Kabushiki Kaisha: *See—*
Susuki, Rinnosuke; Hoshi, Hiroshi; and Araki, Shinichi, 3,640,470.
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- Raiser, Wilhelm G., to International Business Machines Corporation. Locking means for disk pack assembly. 3,643,240, 2-15-72, Cl. 340-174,1.
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Delair, Jean-Paul; and Raisin, Jean-Pierre, 3,690,123.
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Hunt, Robert A.; and Rait, Joseph M., 3,637,302.
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- Rajon, Andre, to Societe Rhodiaca. Acetylation of textile articles of cellulose. 3,655,326, 4-11-72, Cl. 8-121.
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Hjermstad, Erling T.; and Rajtora, Otto J., 3,632,803.
Hjermstad, Erling T.; and Rajtora, Otto J., 3,706,730.
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Soellner, Arthur M.; Sprouse, James F.; and Raju, Tripornithura A., 3,663,857.
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Lyall, Charles E.; and Rak, Stanley F., 3,695,446.
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Hale, Otis L.; and Rakes, Charles D., 3,649,770.
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- Rakes, Rodney G., to Sperry Rand Corporation. Dual speed brushless D.C. motor. 3,643,143, 2-15-72, Cl. 318-254.
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Dunn, Stanley A.; Rakestraw, Lawrence F.; and Cunningham, Robert Ernest, 3,658,979.
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Laigle, Roger E.; and Rakich, Antone F., 3,692,223.
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Reiter, Gyorgy; Szenasi, Sandor; Toth, Bela; and Rakosi, Ferenc, 3,652,940.
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Le Bris, Louis; Michelet, Daniel; and Rakoutz, Michel, 3,671,552.
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Filacheck, Lawrence A.; and Rakow, Marvin S., 3,674,450.
- Rakow, Marvin S.; and Konig, Robert J., to Cities Service Oil Company. Stabilized distillate hydrocarbon fuel oil compositions and additives therefor. 3,640,692, 2-8-72, Cl. 44-63.
- Rakow, Marvin S.; and Lockwood, William H., Jr., to Cities Service Oil Company. Dodecylbenzenesulfonic acid addition in sulfuric acid alkylation. 3,655,807, 4-11-72, Cl. 260-683.63.
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- Rakowicz, Jan Antoni, to Molins Machine Company Limited. Continuous rod making machines. 3,645,175, 2-29-72, Cl. 93-1.
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Mason, Charles D.; and Rakus, Julius P., 3,660,335.
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- Raleigh, William F., to Carrier Corporation. Furnace having multiple speed motor and accessory control system. 3,664,414, 5-23-72, Cl. 165-26.000.
- Raleigh, William J., to General Electric Company. Process for the preparation of polyurethane foams in the presence of an organopolysiloxane copolymer surfactant. 3,654,195, 4-4-72, Cl. 260-2.5.
- Ralet, Claude Marie Ernest; and Ralet, Daniel Albert Clement. Method of an apparatus for the automatic supervision of liquid limits in closed tanks. 3,664,365, 5-23-72, Cl. 137-206.000.
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- Raley, Charles F., Jr., to Dow Chemical Company. The. Self-extinguishing polyethylene foams comprising an antimony compound, a halogen-containing compound and a bromine compound. 3,668,155, 6-6-72, Cl. 260-2.5.
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- Rall, Ulrich; Frotscher, Herbert; and Petzold, Manfred, to Bohme Chemie Gesellschaft mbH. Silicone emulsions. 3,669,702, 6-13-72, Cl. 106-287.000.
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Wiseley, Thomas D.; and Rallis, Roy, 3,688,056.
- Ralph Frank; and Gingell, Michael John, to International Standard Electric Corporation. Digital waveform generator. 3,649,922, 3-14-72, Cl. 328-14.
- Ralph, Harold J. Self-disintegrating diaper liner and retainer. 3,667,466, 6-6-72, Cl. 128-287.000.
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Boddy, Harold Albert, 3,638,263.
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Davige, Ronald V.; Locklar, Henry C.; Ralston, James C.; and Ritchie, Robert T., 3,700,328.
- Ralston, Paul H., to Calgon Corporation. Compositions for use in refractories. 3,661,608, 5-9-72, Cl. 106-286.
- Ralston, Paul Hotchkiss, to Calgon Corporation. Inhibiting scale deposition. 3,663,448, 5-16-72, Cl. 252-180.000.
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Ament, Roland W.; and England, Joseph F., 3,634,587.
- Arndt, Robert H., 3,642,492.
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- Boyer, Robert A.; Schulz, Arthur A.; and Schatzman, Edmond A., 3,644,121.
- Boyer, Robert A.; Schulz, Arthur A.; Oborsh, Edward V.; and Brown, Arthur V., 3,662,673.
- Duren, Jesse Thomas, 3,689,288.
- Frederiksen, Christopher W.; and Heusdens, Wilhelmus, 3,662,671.
- Hale, Douglas; Manuel, James C.; and Beck, Nicholas R., 3,704,135.
- Hawley, Robert L.; Frederiksen, Christopher W.; and Hoer, Ralph A., 3,642,490.
- Hawley, Robert L., 3,658,550.
- Heusdens, Wilhelmus; and Gucvara, Balagtas F., 3,692,531.
- Hoer, Ralph A.; and Calvert, Francis E., 3,649,293.
- Hoer, Ralph A., 3,662,672.
- Hoer, Ralph A.; Frederiksen, Christopher W.; and Hawley, Robert L., 3,694,221.
- Kari, Melvin R.; and Hodge, Dean E., 3,669,676.
- Kolar, Charles Wesley, Jr., 3,677,771.
- Kummer, Charles K., 3,691,723.
- Kummer, Charles Karl; Walters, Roger E.; and White, Gary Wayne, 3,689,276.
- Lovell, Kenneth O., 3,666,489.
- Magnino, Pete J., Jr.; and Frederiksen, Christopher W., 3,645,745.
- Miller, Timothy A.; and Hanselman, Larry R., 3,675,625.
- Mohrman, Robert K.; Kifer, Paul E.; and Oborsh, Edward V., 3,679,429.
- Reinke, William C., 3,695,892.
- Schneider, Eugene Louis, 3,649,203.
- Shelton, Damon C.; and Blankenship, Curtis E., 3,635,723.
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Romanelli, Pat, 3,640,455.
- Ram, Michael J., to Celanese Corporation. Graphitization process. 3,656,904, 4-18-72, Cl. 23-209.1.
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- Ram, Michael J., to Celanese Corporation. Lateral positioning of moving fibrous materials. 3,705,675, 12-12-72, Cl. 226-3.000.
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Brown, Mortimer, 3,672,424.
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Hoyt, Edwin D., 3,657,517.
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Hughes, William L.; Allison, Hansel J.; and Ramakumar, Ramachandra G., 3,663,945.
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Leaper, Joseph Michael Faraday; and Raman, Harvey Peter John, 3,703,546.
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Artz, Klaus; Ramanathan, Visvanathan; and Moser, Peter, 3,707,532.
- Desai, Nalin Binduprasad; Jayaraman, Ponnusami; Ramanathan, Visvanathan; Artz, Klaus; Naik, Navnitrai Nagarji; and Jenny, Walter, 3,679,657.
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- Kubba, Ved Parkash; Ramanathan, Visvanathan; and Jenny, Walter, 3,663,529.
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Rassat, Andre; and Ramasseul, Rene, 3,642,818.
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Bousquet, Gilles; and Rambert, Andre, 3,696,446.
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Lovett, Gordon H.; and Rambin, Ronald E., 3,636,067.
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Waldbillig, James O.; Wiley, Morris A.; Rambo, Marvin L.; and Millendorf, Alfred J., 3,673,090.
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Blanie, Marie Jean Michel Paul; Ramis, Jean; and Robert, Henri R., 3,705,667.
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Mander, Robert J.; Ramm, Duane E.; and Simms, Robert J., 3,643,812.
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Reeve, Keith Desmond; and Ramm, Eric John, 3,704,202.
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United States of America, National Aeronautics and Space Administration, 3,636,623.
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Scherer, Otto; Rammelt, Paul Peter; Korinth, Jurgen; and Frisch, Peter, 3,660,307.
- Rammier, David: *See—*
Ellis, David J.; and Rammier, David, 3,652,564.
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John, Willibald; Schmalfeld, Paul; Lange, Paul; and Rammier, Roland, 3,700,564.
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Sveksso, Stig, 3,673,646.
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Re Baratelli, Giuseppe, 3,654,631.
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Rampe, John F., 3,685,213.
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Svanstrom, Elis Kjell Ake; and Ramqvist, Lars Henry, 3,701,649.
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- Ramsauer, Kurt: *See—*
Knapp, Walter; and Ramsauer, Kurt, 3,694,082.
- Ramsay, James Ian: *See—*
Dear, William Noel; Ramsay, James Ian; and Thomson, Alexander, 3,684,436.
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Reeves, Alec Harley; Ramsay, Melvin Murray; Mounter, Anthony Edmund; and Laurence, Simon French, 3,705,307.
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Voss, Raymond G.; and Ramsay, Ray D., 3,647,597.
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Martin, John Frank; and Ramsden, Charles Dean, 3,671,069.
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- Ramsel, Charles A.: *See—*
Robinson, Ramon H.; and Ramsel, Charles A., 3,638,694.
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Hamilton, David C., 3,679,961.
- Ramsey Corporation: *See—*
Prasse, Herbert F., 3,645,174.
Prasse, Herbert F.; and McCormick, Harold E., 3,690,686.
Prasse, Herbert F.; and McCormick, Harold E., 3,697,091.
Prasse, Herbert F., 3,698,054.
- Ramsey, David A.: *See—*
Galetto, Louis V.; and Ramsey, David A., 3,705,333.
- Ramsey Engineering Company: *See—*
Schaaf, Gunther; and Smith, Nathan R., 3,699,503.
- Ramsey, Fred T.: *See—*
Gundersen, Allan A.; and Ramsey, Fred T., 3,638,335.
- Ramsey, Harold Eugene: *See—*
Maros, Frank George; May, Jeffrey Scott; and Ramsey, Harold Eugene, 3,636,678.
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Mullin, Francis Joseph; and Ramsey, Raymond Bolton, 3,660,613.
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Spencer, John H.; Ramsey, Richard T.; and Gilbertson, Warren L., 3,669,021.
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- Ramsey, Thomas H., Jr.: *See—*
McMahon, William R.; and Ramsey, Thomas H., Jr., 3,634,203.
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Minchey, Jerry M.; and Ramsey, Willard A., 3,664,383.
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Ramsey, Maynard, III, 3,648,687.
- Ramusino, Francesco Cotta: *See—*
Galbarini, Maso; and Ramusino, Francesco Cotta, 3,671,133.
- Ramuz, Henri: *See—*
Bollag, Werner; Ramuz, Henri; and Spiegelberg, Hans, 3,634,506.
Edenhofer, Albrecht; Ramuz, Henri; and Spiegelberg, Hans, 3,706,755.
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Hageman, Carlton V.; and Rana, Victoriano F., 3,650,525.
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- Ranallo, Henry U.: *See—*
Wiltshire, Arthur J.; Ranallo, Henry U.; and Czumber, Frank E., 3,654,002.
- Rancati, Gianluigi: *See—*
Cuffaro, Antonino; Castronovo, Francesco; Bruno, Achille; and Rancati, Gianluigi, 3,670,060.
- Rance, William G., Jr.: *See—*
Cochran, Thomas J.; Hazel, Herbert K.; and Rance, William G., Jr., 3,691,864.
- Ranco Incorporated: *See—*
Adams, Jay C.; and Cook, Russell E., 3,673,811.
Brooks, Robert E.; Ewart, John M.; and Randall, James E., 3,631,687.
Brooks, Robert E., 3,678,434.
Caldwell, Roland B., 3,658,244.
Goodman, Kenneth C., 3,645,661.
Houk, William J., 3,645,108.
Kulik, Andrew, 3,668,594.
Lorenz, Jerome L., 3,645,325.
Randall, James E., 3,631,684.
Young, Clyde L., 3,631,685.
- Rancray Limited: *See—*
Barnard, Roy Albert Drake, 3,702,606.
- Rand Development Corporation: *See—*
Goebel, Franz, 3,650,697.
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Sloane, Nathan H., 3,650,903.
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- Randall, David I.: *See—*
Chang, Charles H.; and Randall, David I., 3,655,772.
Chang, Charles H.; and Randall, David I., 3,674,856.
Field, Nathan D.; Randall, David I.; and Fitzpatrick, Jimmie D., 3,637,598.
Field, Nathan D.; Randall, David I.; and Fitzpatrick, Jimmie D., 3,640,934.
Freyermuth, Harlan B.; and Randall, David I., 3,704,243.
Lorenz, Donald H.; Randall, David I.; and Copes, Joseph P., 3,635,898.
Vogel, Calvin; and Randall, David I., 3,705,215.
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- Randall, James C.: *See—*
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., 3,668,187.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., 3,668,188.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., 3,669,935.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., 3,684,768.
Randall, James C., Jr.: *See—*
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., 3,669,925.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., 3,669,933.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., 3,671,494.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., 3,671,495.
Randall, James E.: *See—*
Brooks, Robert E.; Ewart, John M.; and Randall, James E., 3,631,687.
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- Randall, John M.: *See—*
Bhagat, Gopal C.; and Randall, John M., 3,697,170.
- Randall, Newton P.; and Lewis, Brian J., to Texaco Inc. Exterior wall structural member for a heat exchanger in a hot-air heater. 3,661,139, 5-9-72, Cl. 126-91.
- Randall, Ronald H.: *See—*
Archer, William A.; Randall, Ronald H.; and Lewis, Richard M., 3,668,508.
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- Randmere, Uno: *See—*
Suntop, Morris A.; and Randmere, Uno, 3,649,778.
Suntop, Morris A.; and Randmere, Uno, 3,673,330.
- Rando, Joseph F.: *See—*
Bagley, Alan S.; Cutler, Leonard S.; and Rando, Joseph F., 3,656,853.
- Randoing, Jean Martial: *See—*
Gohe, Raymond; Randoing, Jean Martial; Gohe, Max; and Evraud, Jean-Claude, 3,703,631.
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- Randolph, Arthur J.: *See—*
Golick, Alexander J.; Giuseponi, Ernest D.; and Randolph, Arthur J., 3,687,178.
- Randolph, Arthur J., to Tuftmatic, Inc. Quilt and cushion construction and button therefor. 3,701,174, 10-31-72, Cl. 5-356.000.
- Randolph, August: *See—*
Huckstadt, Harald; Saleck, Wilhelm; Randolph, August; Moll, Franz; and Ranz, Erwin, 3,640,715.
Huckstadt, Harald; Saleck, Wilhelm; Randolph, August; and Moll, Franz, 3,647,469.
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- Randolph, Hollis L.: *See—*
McIntosh, Harold A.; Randolph, Hollis L.; Chambers, William W.; and Graham, Marvin M., 3,636,414.
- Randolph, Hollis L.; and Graham, Marvin M., to Robertshaw Controls Company. Latching assembly for a control device to prevent operation thereof prior to electromagnet safety release. 3,682,188, 8-8-72, Cl. 137-66.000.
- Randolph, James B.: *See—*
Nelson, Jerome W.; and Randolph, James B., 3,632,959.
- Randolph, John F., Jr.: *See—*
Frazier, James D.; and Randolph, John F., Jr., 3,633,279.
- Randolph, Leonard B.: *See—*
Simonelli, Le Roy S.; Randolph, Leonard B.; and Damico, Sam, 3,651,965.
- Randolph, Michael J.: *See—*
Chay, Dong M.; Cumbo, Charles Carmen; Randolph, Michael J.; and Yates, Paul C., 3,676,477.
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Schaad, Howard A.; and Randolph, Richard L., 3,660,760.
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Ryan, George H.; and Randolph, Ross W., 3,654,555.
- Randolph-Rand Corporation: *See—*
Reitzel, George, 3,692,078.
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Chapman, Douglas W.; Overlay, Richard Dean; Rands, Robert D., Jr.; and Schreiber, Ronald S., 3,647,492.
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Beveridge, Thomas R.; and Ranft, Ernst L., 3,683,597.
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Sachnik, Norman H., 3,650,199.
- Range, Lynn A.: *See—*
Andrushkiw, Bohdan A.; and Range, Lynn A., 3,643,520.
- Ranger, Herbert: *See—*
Maier, Elmar; and Rangger, Herbert, 3,637,127.
Maier, Elmar; and Rangger, Herbert, 3,679,118.
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Perrotti, Emmanuel J.; Ranghelli, Joseph C.; and Felsenheld, Robert A., 3,681,769.
- Rank, John B.: *See—*
Schramm, Lester H.; Rank, John B.; and Saikeld, Melvin R., 3,703,016.
Weiss, Gordon E.; Rank, John B.; and Quast, Gilbert W., 3,635,349.
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Cook, Gordon Henry; and Laurent, Francois Rene, 3,682,534.
Cook, Gordon Henry; and Lajrent, Francois, 3,705,759.
Elliot, Ian R., 3,655,352.
Fawcett, John Anthony; and Gray, William Hugh, 3,706,485.
Kerr, James A.; Rogers, Bernhard J.; and Sutherland, Leslie J., 3,702,377.
Lea, Peter Gordon, 3,683,224.
Mansfield, John William Brian, 3,652,928.
Plummer, Dexter Robert; and Barr, John Denzil, 3,634,008.
Plummer, Dexter Robert, 3,660,744.
Rogers, Bernhard J., 3,659,039.
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Horne, Douglas Favel, 3,657,545.
- Rank, William E.; and Dafler, Gene L., to General Motors Corporation. Squirrel cage rotor with interference fit sleeve between shaft and core. 3,662,200, 5-9-72, Cl. 310-211.
- Rank, William E.; and Dafler, Gene L., to General Motors Corporation. Method for manufacturing a high speed squirrel cage rotor. 3,694,906, 10-3-72, Cl. 29-598.000.
- Rank, William J. Fuel injector and ignitor. 3,648,669, 3-14-72, Cl. 123-32.
- Rankel, Lillian Ann: *See—*
Curran, Robert Kryan; and Rankel, Lillian Ann, 3,660,090.
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Galiano, Francis R.; and Rankin, David, 3,637,426.
- Rankin, John C. Loudspeaker enclosure. 3,679,023, 7-25-72, Cl. 181-31.00a.
- Rankin, Philip A. Orthopedic tension unit. 3,672,364, 6-27-72, Cl. 128-134.000.
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Mekota, John E., Jr.; Hudson, David M.; Rankin, Thomas G.; and Champagne, Jean E., 3,657,705.
- Rankine, David P.: *See—*
Ferrari, Edward A., 3,633,505.
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Ferrari, Edward A., 3,633,505.
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Barker, Sidney Alan; Kennedy, John Frederick; and Cray, Charles John, 3,705,890.
- Rannenber, George C., to United Aircraft Corporation. Capacity control for gas turbine powered air cycle refrigeration system. 3,699,777, 10-24-72, Cl. 62-172.000.
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Gambale, James Richard; McIntyre, Glenn Hazel, Jr.; and Ranney, Fredrik J., 3,672,825.
- Ranno, Albert J. Pallet. 3,685,464, 8-22-72, Cl. 108-58.000.
- Ranon, Uri: *See—*
Zuleeg, Rainer; and Ranon, Uri, 3,701,043.
- Ransburg Electro-Coating Corporation: *See—*
Drum, Edward W., 3,690,336.
Ferrant, Wolfgang, 3,700,168.
Harrison, David; and Sainz, Raul T., 3,676,197.
Ito, Siro, 3,659,787.
Miller, Emery P., 3,649,408.
Miller, Emery P.; and Probst, Richard O., 3,692,606.
Miller, Emery P., 3,699,027.
Probst, Richard O.; Smith, William W.; and Lee, Henry B., 3,648,565.
Probst, Richard O., 3,676,194.
Probst, Richard O.; and Moos, Albert H., 3,677,470.
Sickles, James E., 3,698,635.
Spiller, Lester L., 3,660,262.
Spiller, Lester L.; and Smith, Stephen J., 3,672,927.
Spiller, Lester L.; and Buford, Claude W., 3,676,171.
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Harlow, Loraine C.; Ransburg, Stephen D.; and Mehaffey, Lester L., 3,662,051.
- Ransohoff, Jackson A., to Neutron Products Inc. Pool irradiator with radiation source in a rotating container. 3,665,183, 5-23-72, Cl. 250-52.
- Ransohoff, Jackson A., to Neutron Products, Inc. Multistage polymerization process with independently adjustable radiation sources. 3,666,645, 5-30-72, Cl. 204-159.22.
- Ransohoff, Jackson A.; and Sarkozi, Lewis P., to Neutron Products, Inc. Production irradiator. 3,676,675, 7-11-72, Cl. 250-52.000.
- Ransom, Arthur Charles, to Marley Wollongong Limited. Unstacking machine. 3,687,306, 8-29-72, Cl. 214-8.50c.
- Ransom, Lloyd D., to Motorola, Inc., mesne. Method for annealing magnetic wire. 3,637,443, 1-25-72, Cl. 148-122.
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Aldred, Edward John, 3,645,076.
Gurwicz, David, 3,646,414.
- Ranson, John H., Laboratories, Inc.: *See—*
Dexter, Wilbur H., 3,653,296.
- Ranson, Wesley J.: *See—*
Davis, Bernard J.; and Ranson, Wesley J., 3,702,842.
- Rantsch, Kurt, to Zeiss-Stiftung, Carl; d/b/a Zeiss, Carl. Device for determining guidance errors. 3,694,089, 9-26-72, Cl. 356-138.000.
- Ranz, Erwin: *See—*
Huckstadt, Harald; Saleck, Wilhelm; Randolph, August; Moll, Franz; and Ranz, Erwin, 3,640,715.
Kampfer, Helmut; von Konig, Anita; Ranz, Erwin; von Rintelen, Harald; Mayer, Dietmar; and Sasse, Klaus, 3,674,479.
Kampfer, Helmut; von Konig, Anita; Ranz, Erwin; von Rintelen, Harald; Mayer, Dietmar; and Sasse, Klaus, 3,674,480.
Matejec, Reinhart; and Ranz, Erwin, 3,694,207.
Neumann, Wolfram; Muller, Gerhard; Ranz, Erwin; von Rintelen, Harald; and Schutz, Heinz-Dieter, 3,671,252.
Weyde, Edith; Ranz, Erwin; and Matejec, Reinhart, 3,684,511.
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Axelrod, Michael; Marsh, William S.; Rao, Koppaka V.; and Sodano, Charles S., 3,644,617.
Sobin, Ben A.; Routien, John B.; Rao, Koppaka V.; Marsh, William S.; and Garretson, Aline L., 3,646,194.
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Marsh, David C.; and Rao, Prabhakar B. R., 3,649,135.
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Gladney, Kurt P.; and Rao, Ramesh P., 3,692,507.
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- Rao, Venkataramanayya K., to Atomic Energy of Canada Limited Commercial Products. Heat engines. 3,667,215, 6-6-72, Cl. 60-24.000.
- Raoul, Pierre, to Pechiney-Saint Gobain. Process for preparing phthalazone. 3,655,660, 4-11-72, Cl. 260-250.
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Falkner, Raimund, 3,689,970.
- Raphaël, Leon. Instantaneous sinusoidal orthogonal converter. 3,675,137, 7-4-72, Cl. 328-144.000.
- Raphael, Nathaniel W. Stringed instruments with adjustable frictional gripping means for the string supporting pins. 3,693,490, 9-26-72, Cl. 84-202.000.
- Raphaelian, Leo A.: *See—*
Jungermann, Eric; Taber, David; and Raphaelian, Leo A., 3,652,767.
Jungermann, Eric; Taber, David; and Raphaelian, Leo A., 3,652,768.
Taber, David; and Raphaelian, Leo A., 3,687,856.
Taber, David; and Raphaelian, Leo A., 3,705,104.
Zakaria, Moneeb H.; Raphaelian, Leo A.; Taber, David; and Brown, James, Jr., 3,703,471.
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Viola, Ronald J.; and Keeney, Lawrence V., 3,703,621.
- Rapid Mountain and Finishing Company: *See—*
Schoenung, Alois F., 3,707,050.
- Rapid-American Corporation: *See—*
Cahill, Thomas J., Jr., 3,690,360.
Schneider, Marvin, 3,685,620.
- Rapisarda, Anthony A.: *See—*
Rudy, Jerome; and Rapisarda, Anthony A., 3,650,816.
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Bildsoe, Jorgen S., 3,665,864.
Dahlquist, Ernst A.; Polakoqski, Stanley J.; and Vaalburg, Teunis, 3,698,423.
Krammer, Robert, 3,666,050.
Sullivan, Norman M., 3,695,462.
- Rapkl, Virginia L.: *See—*
Mesek, Frederick K.; and Rapkl, Virginia L., 3,683,916.
- Rapko, John N., to Monsanto Company. Maleic/acrylic/alkenyl phosphonate terpolymers. 3,684,779, 8-15-72, Cl. 260-78.50r.
- Rapoport, Lev Moiseevich: *See—*
Mikhailov, Nikolai Petrovich; Rapoport, Lev Moiseevich; and Taits, Samuil Zalmanovich, 3,698,235.
- Rapoza, Edward J.: *See—*
Siegel, Maxwell E.; Rapoza, Edward J.; and Chevalaz, Roger A., 3,634,651.
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- Rapp, Adolph Karl; and Bharali, Utpalananda, to RCA Corporation. Multiple-phase logic circuits. 3,706,889, 12-19-72, Cl. 307-205.000.
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Lee, Haynes A., Jr.; and Rapp, Charles F., 3,640,890.
Lee, Haynes A., Jr.; and Rapp, Charles F., 3,640,891.
Lee, Haynes A., Jr.; and Rapp, Charles F., 3,663,474.
- Rapp Fabrikker A/S: *See—*
Halvorsen, Jacob Schoning, 3,687,418.
- Rapp, Fredric Thomas. Running doll or the like. 3,665,644, 5-30-72, Cl. 46-245.000.

- Rapp, James E.: *See—*
Busdiecker, Robert A.; Rapp, James E.; and Babcock, Clarence L., 3,661,546.
- Rapp, Richard K. Prosthetic heart valve. 3,689,942, 9-12-72, Cl. 3-1.000.
- Rapp, Robert Anthony, to Ohio State University, The. Devices for the control of agents in fluids. 3,699,032, 10-17-72, Cl. 204-195.00s.
- Rapp, Theodore Clyde, to Du Pont de Nemours, E. I., and Company. Emulsions of water in halogenated solvents which contain fluorinated oil and water repellents. 3,668,163, 6-6-72, Cl. 260-28.50d.
- Rappen, Ludwig: *See—*
Maurer, Manfred; Orth, Winfried; and Rappen, Ludwig, 3,632,807.
- Rappold, Hermann, & Co. GmbH: *See—*
Uerlich, Johannes; and Muller, Rudolf, 3,695,286.
- Rapport, Jerry; and Frymire, Garold D., to Travel Trim & Vent Co. Escape hatch. 3,676,954, 7-18-72, Cl. 49-141.000.
- Rapsilber, William E.; and Koenig, Richard G., to McDonnell Douglas Corporation. Coordinate conversion calculator. 3,639,989, 2-8-72, Cl. 33-1.
- Rapson, William H., to Electric Reduction Company of Canada, Ltd. Digestion and bleaching wood pulp followed by recovery of chemicals and countercurrent flow of wash water. 3,698,995, 10-17-72, Cl. 162-19.000.
- Raquin, Roger: *See—*
Largerion, Louis; and Raquin, Roger, 3,678,548.
- Rardin, Robert W., to Union Oil Company of California. Well for transporting hot fluids through a permafrost zone. 3,703,929, 11-28-72, Cl. 166-302.000.
- Rarog, Walter. Tubless tire repair tool. 3,631,746, 1-4-72, Cl. 81-15.7.
- Rasch, Arthur A., to Eastman Kodak Company. Photographic diffusion transfer product and process. 3,647,440, 3-7-72, Cl. 96-29.
- Rasch, Eugen, to Erdolchemie Gesellschaft mit beschränkter Haftung. Arrangement for coding given pathlengths in outgoing electrical signals. 3,688,304, 8-29-72, Cl. 340-347.00p.
- Rasch, Leroy L., to Stewart-Warner Corporation. Engine starting aid. 3,661,133, 5-9-72, Cl. 123-180.
- Raschdorf, Richard. Garment bag. 3,704,778, 12-5-72, Cl. 206-7.000.
- Raschka, Walter R.: *See—*
Hahn, Burkhard J.; Reise, Rolf M. E.; and Raschka, Walter R., 3,642,455.
- Raschke, Herbert A., to Bullard, E. D., Company. Connector for hand tool suspension system. 3,640,555, 2-8-72, Cl. 287-103.
- Raschke, Herbert A., to Bullard, E. D., Company. Apparatus for mounting a face shield onto a rigid hat. 3,685,054, 8-22-72, Cl. 2-10.000.
- Raschke, Herbert A., to Bullard, E. D., Company. Hood with improved air inlet. 3,685,512, 8-22-72, Cl. 128-142.700.
- Raschle, Josef, to Moulinage et Retorderie de Chavanoz. Magnetic false twist spindle. 3,638,413, 2-1-72, Cl. 57-77.45.
- Raschle, Josef, to Moulinage et Retorderie de Chavanoz, mesne. Magnetic false twist spindle. 3,673,782, 7-4-72, Cl. 57-77.450.
- Raser, William H. Graph-reading digital converter. 3,696,397, 10-3-72, Cl. 340-347.0ad.
- Rash, James T., to Mouldings, Inc. Dryer conveyor means. 3,650,377, 3-21-72, Cl. 198-190.
- Rashidov, Faizulla Karimovich: *See—*
Akhmedov, Rustam Berovich; Talibdzhanov, Zakhidzhan Sadykdzhanovich; Valikhodzhaev, Asomkhodzha; and Rashidov, Faizulla Karimovich, 3,664,587.
- Rashkin, Allyn S., to GAF Corporation. Apparatus for detecting, quantizing and displaying the position of registration mark on a sheet. 3,658,430, 4-25-72, Cl. 356-172.
- Raskin, Archie, to Componentry Research and Development Enterprise, Inc. Office machine anti-theft locking apparatus. 3,664,616, 5-23-72, Cl. 248-25.000.
- Raskin, Jerome S. Communication system having means for causing a distress signal. 3,668,526, 6-6-72, Cl. 325-64.000.
- Raskin, Seymour H., to Sands Measurement Corporation. Fluid characteristic sensing device. 3,638,487, 2-1-72, Cl. 73-194.
- Rasmussen, Carl Georg, to Disa Elektronik A/S (Dansk Industri Syndikat A/S). Electrical flow measuring probe. 3,645,132, 2-29-72, Cl. 73-189.
- Rasmussen, Dimite J.; and Roth, Peter H., to Polaroid Corporation. Color diffusion transfer film units comprising a layer which contains a synthetic polymer-benzenoid silver halide developing agent complex and process for their use. 3,707,370, 12-26-72, Cl. 96-3.000.
- Rasmussen, Donald W., to Edoco Technical Products, Inc. Method and apparatus for insertion of joint material in plastic concrete. 3,648,575, 3-14-72, Cl. 94-39.
- Rasmussen, Donald W., to Edoco Technical Products, Inc. Concrete consolidating and smoothing means for inserter apparatus. 3,665,820, 5-30-72, Cl. 94-39.000.
- Rasmussen, Harry R. Transfer switch package assembly. 3,639,716, 2-1-72, Cl. 200-168.
- Rasmussen, Henning B.: *See—*
Moller, Torben Torsbjerg; Nedenskov, Poul; and Rasmussen, Henning B., 3,635,949.
- Rasmussen, Lester M. Cup holder for automobiles. 3,707,272, 12-26-72, Cl. 248-311.000.
- Rasmussen, Ole-Bendt. Apparatus for producing filamentary or sheet-like material of plural components. 3,632,282, 1-4-72, Cl. 18-13.
- Rasmussen, Ole-Bendt. Process for combing the opposite sides of a sandwich-like tubular polymeric sheet. 3,632,711, 1-4-72, Cl. 264-70.
- Rasmussen, Ole-Bendt. Process for producing composite filaments. 3,651,195, 3-21-72, Cl. 264-171.
- Rasmussen, Ole-Bendt. Method for the production of synthetic sheet materials. 3,673,291, 6-27-72, Cl. 264-46.000.
- Rasmussen, Ole-Bendt. Extruded sheet material. 3,677,873, 7-18-72, Cl. 161-109.000.
- Rasmussen, Ole-Bendt; Madsen, Willy Buch; and Nielsen, Arne E. Apparatus for the rolling or twisting of yarn or ribbon-like structures about their longitudinal axis. 3,686,853, 8-29-72, Cl. 57-77.420.
- Rasmussen, Ole-Bendt. Filamentary or sheet-like material of polymeric substances and method and apparatus for producing said material. 3,690,982, 9-12-72, Cl. 156-148.000.
- Rasmussen, Oystein E. Method for preventing fouling of ships, particularly ships having substantially vertical side surfaces. 3,650,924, 3-21-72, Cl. 204-147.
- Rasmussen, Paul, to Grumman Aerospace Corporation. High pressure forming press. 3,681,958, 8-8-72, Cl. 72-57.000.
- Rasmussen, Peter D.: *See—*
Buckley, Norman A.; and Rasmussen, Peter D., 3,638,842.
- Rasmussen, Reed. Camper loading and unloading device. 3,695,472, 10-3-72, Cl. 214-517.000.
- Rasmussen, Robert F., to Roseville Engineering, Inc., mesne. Pump. 3,666,382, 5-30-72, Cl. 417-533.000.
- Rasmussen, Thomas J.: *See—*
Morton, Henry Clifford; and Rasmussen, Thomas J., 3,655,603.
- Rasmussen, Tom: *See—*
Arntson, Gary L.; and Rasmussen, Tom, 3,703,106.
- Rasmussen, Torben Borup, to Kroyer, Karl Kristian Kobs. Method for the production of fibrous sheet materials. 3,669,778, 6-13-72, Cl. 156-62.200.
- Rasmusson, Gary H.: *See—*
Arth, Glen E.; and Rasmusson, Gary H., 3,673,180.
Arth, Glen E.; and Rasmusson, Gary H., 3,679,717.
- Rasoir, Michelangelo, to Olivetti, Ing. C. & C., S.p.A. Machine Ing., having a rotary worktable. 3,667,305, 6-6-72, Cl. 74-818.000.
- Raspante, Anthony, to Packaging Industries, Inc. Extruder head. 3,690,798, 9-12-72, Cl. 425-167.000.
- Rasanti, Giuseppe: *See—*
Matter, Max; Weidele, Othmar; and Rasanti, Giuseppe, 3,639,642.
- Raspers, Helmut: *See—*
Buchel, Karl-Heinz; Regel, Erik; Grewe, Ferdinand; Scheinplugg, Hans; and Raspers, Helmut, 3,691,192.
- Rasquin, John R.: *See—*
Aldrich, Billy R.; Cooper, Charles R.; and Rasquin, John R., 3,636,966.
- Rasquin, John R.; and Estes, Marvin F., to United States of America, National Aeronautics and Space Administration. Apparatus for making diamonds. 3,632,242, 1-4-72, Cl. 425-77.
- Rasquin, John R., to United States of America, National Aeronautics and Space Administration. High temperature furnace for melting materials in space. 3,647,924, 3-7-72, Cl. 13-20.
- Rassart, Nestor Sylvain, to Chemcell Limited. Hairy lustrous yarn. 3,645,085, 2-29-72, Cl. 57-140.
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Chalier, Genevieve; and Rassat, Andre, 3,658,907.
Chiarelli, Robert; Rassat, Andre; Besson, Rene; and Salvi, Antoine, 3,702,831.
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- Rasschaert, Antoine Theofiel; Benoy, Gaston Jacob; and Van-Besauw, Jan Frans, to Gevaert-Agfa N.V. Method for the preparation of arylisothiocyanates. 3,637,787, 1-25-72, Cl. 260-454.
- Rasseikin, Mikhail Grigorievich: *See—*
Efimov, Leonid Alexandrovich; Shtin, Lev Mikhailovich; Sinit-sky, Vladimir Mikhailovich; Khirdzhev, Sergei Grigorievich; Pylaikin, Petr Alexeevich; Satovskaya, Ljudmila Sergeevna; Grebnev, Nikolai Feodosovich; Rasseikin, Mikhail Grigorievich; Kalugin, Konsantin Yakovlevich; Somov, Boris Stepanovich; and Baranchikov, Vladimir Mikhailovich, 3,678,728.
Shtin, Lev Mikhailovich; Grebnev, Nikolai Feodosovich; Satovskaya, Ljudmila Sergeevna; Rasseikin, Mikhail Grigorievich; Khirdzhev, Sergei Grigorievich; Perevozchikov, Evgeny Titovich; Zagulina, Sofia Stepanovna; Duda, Vladimir Nikolaevich; and Karasev, Mihail Andreevich, 3,664,168.

- Rassieur, Charles L., to Central Mine Equipment Company. Hollow-stem auger head with seal. 3,640,354, 2-8-72, Cl. 175-243.
- Rassmann, Christoph; and Heyer, Willy, to Gewerkschaft Eisenhütte Westfalen. Arrangements for controlling the guidance of a mineral mining plough. 3,640,581, 2-8-72, Cl. 299-32.
- Rast, Carroll J., Jr. Barbeque grill. 3,683,791, 8-15-72, Cl. 99-340,000.
- Rast, Gustav E.; and Steiner, Russell I., to Allied Chemical Corporation. Edible substrates colored with monoazo dyestuffs. 3,640,733, 2-8-72, Cl. 99-148.
- Rastas, Jussi: *See—*
Bryk, Petri; Haani, Martti; Honkasalo, Jorma B.; Kinnunen, Jorma; Lindsjö, Olle; Nyholm, Erik; Poijarvi, Jaakko; Rastas, Jussi; and Kangas, Juhani, 3,677,696.
- Rastern Rotorcraft Corporation: *See—*
Collins, Leslie C., 3,683,355.
- Rastoin, Blaise B. Conveyor device for pulverised, granular, fibrous or fluid products. 3,707,224, 12-26-72, Cl. 198-213,000.
- Rat Elimination System Limited, The, *mesne: See—*
Del Grande, Dominic; and Erdman, Donald C., 3,636,559.
- Ratajczyk, James Daniel: *See—*
Swett, Leo Ralph; and Ratajczyk, James Daniel, 3,665,008.
Swett, Leo Ralph; and Ratajczyk, James Daniel, 3,669,983.
Swett, Leo Ralph; Ratajczyk, James Daniel; and Young, Patrick Richard, 3,686,171.
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Anderson, Charles M.; and Ratcliff, Edward H., Jr., 3,696,754.
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Ratcliff, John W., 3,650,556.
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Page, George A.; Rathbun, Robert R.; and Kramer, Bruce E., 3,676,635.
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Grider, Lyle D.; Hornagold, John T.; and Rathi, Ram N., 3,686,862.
- Rathje, Armin: *See—*
Cranskens, Georg; Jakobson, Hans; Rathje, Armin; and Salger, Werner, 3,641,907.
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MacFarlane, Donald B.; and Rathka, Gary T., 3,661,194.
- Rathke, Philip P.: *See—*
Nugent, Duane C.; and Rathke, Philip P., 3,634,321.
- Rathmann, William G. Steerable toboggan. 3,684,306, 8-15-72, Cl. 280-22,000.
- Raths, Fred W.: *See—*
Buckman, John D.; Pera, John D.; and Raths, Fred W., 3,671,641.
- Buckman, Stanley J.; Buckman, John D.; Pera, John D.; and Raths, Fred W., 3,639,604.
- Buckman, Stanley J.; Buckman, John D.; Pera, John D.; and Raths, Fred W., 3,670,004.
- Pera, John D.; and Raths, Fred W., 3,669,981.
- Ratin, Valentin Isidorovich: *See—*
Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Savelyev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,719.
- Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Savelyev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,720.
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Ratto, Luigi, 3,658,708.
- Ratledge, Houston: *See—*
Toppins, Charles R.; Harvey, Samuel E.; Liberman, Harvey W.; Ratledge, Houston; and Voorhees, Steven C., 3,696,951.
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Petrov, Vitaly Ivanovich; Ivanov, Alexandr Nikolaevich; Olenin, Jury Leonidovich; Eller, Arnold Oskarovich; Butuzov, Anatoly Akimovich; Basin, Abram Moiseevich; Starobinsky, Vladimir Borisovich; Ratner, Efim Rafailovich; and Potapov, Oleg Fedorovich, 3,695,542.
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Boissier, Jacques R.; and Ratouis, Roger, 3,634,507.
Boissier, Jacques R.; and Ratouis, Roger, 3,635,983.
Boissier, Jacques R.; and Ratouis, Roger, 3,651,049.
Boissier, Jacques R.; and Ratouis, Roger, 3,697,590.
Boissier, Jacques Robert; and Ratouis, Roger, 3,674,841.
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- Rattan, William D.: *See—*
McIntosh, Harold A.; Dykzeul, Theodore J.; Slocum, Gordon K.; Rattan, William D.; and Murrell, Donald K., 3,662,949.
- McIntosh, Harold A.; Slocum, Gordon K.; and Rattan, William D., 3,662,950.
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- Rattan, William D., to Robertshaw Controls Company. Thermally responsive switch and method for making the same. 3,670,281, 6-13-72, Cl. 337-112.
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Novikov, Alexei Viktorovich; Fridman, Lev Petrovich; Zinkovsky, Viktor Antonovich; Denisov, Vladimir Ivanovich; Fisenko, Konstantin Vitalievich; Rattenberg, Vadim Nikolaevich; and Presnyakov, Alexandr Alexandrovich, 3,683,998.
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Kaminstein, Bernard; and Rattin, Luciano, 3,682,095.
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Granatek, Alphonse Peter; Granatek, Edmund Stanley; and Ratto, Peter Angelo, 3,655,883.
- Ratts, Kenneth Wayne, to Monsanto Company. Fungicidal composition and method containing α -substituted sulfonium ylids. 3,644,639, 2-22-72, Cl. 424-308.
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- Ratz, George A.: *See—*
Brickner, Kenneth G.; and Ratz, George A., 3,655,459.
Brickner, Kenneth G.; and Ratz, George A., 3,684,589.
- Ratz, Heinz: *See—*
Gawlick, Heinz; Marondel, Gunther; Siegelin, Werner; and Ratz, Heinz, 3,707,411.
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Olaf, Jörn; and Ratz, Walter, 3,651,506.
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Strohmer, Alfred; and Rau, Joachim, 3,688,704.
- Rau, John C., to General Motors Corporation. Change-speed drive axle. 3,636,796, 1-25-72, Cl. 74-700.
- Rau, John C. Roller bearing. 3,653,731, 4-4-72, Cl. 308-184.
- Rau, Karl: *See—*
Harth, Helmut; Rau, Karl; and Wagner, Helmar R., 3,689,638.
- Rau, Winfried, to Strobel, J., & Soehne, Spezial-Nachmaschinen-Fabrik. Apparatus for felling linings on fur garments. 3,695,197, 10-3-72, Cl. 112-177,000.
- Rau, Wolfgang: *See—*
Trieschmann, Hans-Georg; Rau, Wolfgang; Mueller-Tamm, Heinz; and Pfannmueller, Helmut, 3,634,382.
- Trieschmann, Hans-Georg; Rau, Wolfgang; Jacobsen, Theodor; and Pfannmueller, Helmut, 3,652,527.
- Rauch, David, to Brode, Von, Milling Co., Inc. Display rack. 3,693,808, 9-26-72, Cl. 211-181,000.
- Rauch, Francis Clyde: *See—*
Wystrach, Vernon Paul; and Rauch, Francis Clyde, 3,634,146.
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- Rauch, Konrad: *See—*
Kerber, Horst; Hohenschutz, Heinz; Rauch, Konrad; and Scheidmeir, Walter, 3,689,371.
- Rauch, Stewart E., Jr.; and Mayer, Edward H., to Bethlehem Steel Corporation. Steel pickling bath. 3,660,253, 5-2-72, Cl. 204-34.
- Rauch, Werner, to Diehl. Zero printing device for calculating machines. 3,637,987, 1-25-72, Cl. 235-60,28.
- Rauk, Robert Louis: *See—*
Mc Ardle, John Joseph; and Rauk, Robert Louis, 3,697,800.
- Raudat, John L.: *See—*
Johnson, Lloyd D.; Kroeber, Kenneth E.; and Raudat, John L., 3,702,524.
- Prete, John A.; and Raudat, John L., 3,673,756.
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- Raudat, John L.; and Johnson, Lloyd D., to Emhart Corporation. Apparatus for loading frangible containers. 3,648,427, 3-14-72, Cl. 53-61.
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- Raue, Roderich: *See—*
Harnisch, Horst; and Raue, Roderich, 3,637,734.
Kuhlthau, Hans-Peter; and Raue, Roderich, 3,652,556.
Psaar, Hubertus; and Raue, Roderich, 3,637,748.
Psaar, Hubertus; Puschel, Walter; and Raue, Roderich, 3,684,510.
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- Rauenbusch, Erich: *See—*
Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, 3,634,196.
- Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, 3,650,902.
- Raufer, Walter, to Agfa-Gevaert Aktiengesellschaft. Double sheet detecting and locking arrangement. 3,679,202, 7-25-72, Cl. 271-57,000.
- Rauh, Albrecht: *See—*
Stihl, Andreas; Abt, Ewald; and Rauh, Albrecht, 3,651,839.
- Rauh, Charles Edward: *See—*
Gray, William David; and Rauh, Charles Edward, 3,665,075.
- Rauh, Jack K.: *See—*
Bletcher, James H.; and Rauh, Jack K., 3,684,190.
- Rauh, John H., to Sonix, Inc. Sound deadening sheet material. 3,698,993, 10-17-72, Cl. 161-159,000.
- Rauhauser, Warren C.: *See—*
Duquette, William F.; Stormzand, Dale T.; and Rauhauser, Warren C., 3,633,628.
- Rauhauser, Warren C., to Keystone Columbia, Inc. Hinged bridging plated for lay-in wireways. 3,636,984, 1-25-72, Cl. 138-155.
- Rauhut, Herbert: *See—*
Frommelt, Hans-Dieter; and Rauhut, Herbert, 3,634,090.
- Rauhut, Horst W.: *See—*
Horsey, Eleanor F.; Warwick, Joseph W.; and Rauhut, Horst W., 3,657,027.
- Rauhut, Michael McKay: *See—*
Maricle, Donald Leonard; and Rauhut, Michael McKay, 3,654,525.
- Roberts, Bernard; and Rauhut, Michael McKay, 3,691,085.
- Roberts, Bernard George; and Rauhut, Michael McKay, 3,701,738.
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Hoegerle, Karl; Muller, Jean-Claude; Vogel, Christian; and Raumpf, Jurg, 3,646,136.
- Rauner, Frederick J.: *See—*
Arcesi, Joseph A.; and Rauner, Frederick J., 3,640,722.
Baptista, John L.; Rauner, Frederick J.; and Ford, John A., Jr., 3,699,135.
Gilson, Richard E.; and Rauner, Frederick J., 3,647,447.
Martinson, Lawrence E.; Rauner, Frederick J.; and Gilson, Richard E., 3,707,373.
- Rauner, Frederick J.; Arcesi, Joseph A.; and Guild, John R., to Eastman Kodak Company. Light-sensitive diazide polymers and polymer compositions. 3,647,443, 3-7-72, Cl. 96-33.
- Raupach, Siegfried H.: *See—*
Kabisch, Gerhard E.; and Raupach, Siegfried H., 3,694,376.
- Rausch, Doyle W.: *See—*

- McCurdy, Hugh R.; Rausch, Doyle W.; and McIntire, Hoy O., 3,677,749.
- Rausch, Emerson G.: *See—*
Lo Sasso, Ronald Alfred; and Rausch, Emerson G., 3,642,619.
- Rausch, Emerson George: *See—*
Flock, Howard George, Jr.; and Rausch, Emerson George, 3,655,552.
- Rausch, Gerhard. Method and arrangement for testing the liquid in washing machines. 3,645,669, 2-29-72, Cl. 8-137.
- Rausch, Hans: *See—*
Meyer, Kurt; Rausch, Hans; and Thumm, Wilhelm, 3,645,717.
- Rausch, Hermann: *See—*
Ulmer, Wolfgang; and Rausch, Hermann, 3,634,775.
- Rausch, John J.: *See—*
Van Thyne, Ray J.; and Rausch, John J., 3,642,546.
Van Thyne, Ray J.; and Rausch, John J., 3,674,571.
Van Thyne, Ray J.; and Rausch, John J., 3,674,572.
Van Thyne, Ray J.; and Rausch, John J., 3,674,573.
Van Thyne, Ray J.; and Rausch, John J., 3,674,574.
Van Thyne, Ray J.; and Rausch, John J., 3,677,832.
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- Rausch, Maurice K.: *See—*
Kivijak, Joseph M., Jr.; and Rausch, Maurice K., 3,642,610.
- Rausch, Paul Gilger, to Fosco Trading, A.G. Rings of heat insulating material for use with floating head boxes in ingot casting. 3,680,827, 8-1-72, Cl. 249-202.000.
- Rausch, Richard E.: *See—*
Hayes, John C.; Mitsche, Roy T.; Rausch, Richard E.; and Wilhelm, Frederick C., 3,660,309.
Hayes, John C.; Mitsche, Roy T.; Rausch, Richard E.; and Wilhelm, Frederick C., 3,702,293.
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- Rausch, Werner: *See—*
Albrecht, Joachim; Hansen, Hans; Oppen, Dieter; Rausch, Werner; and Schiefer, Peter, 3,632,447.
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- Raussendorf & Co. G.m.b.H. Maschinenfabrik: *See—*
Claas, August, 3,695,361.
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Andre, Eugene R.; and Rautio, John M., 3,677,559.
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Prast, Gijsbert; and Rauwerdink, Hendrik Jan, 3,688,512.
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Osial, Thaddeus A.; and Ravas, Richard J., 3,668,548.
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Basso, Eugenio; Ravaschio, Guglielmo; and Frangilli, Vittorio, 3,701,000.
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Logan, Ted J.; and Rave, Terence W., 3,637,496.
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Peterson, Leslie D., 3,680,864.
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Frerson, Raymond; Gravier, Claude; Ravenel, Pierre; and Soupen, Pierre, 3,640,621.
- Ravenna, Franco: *See—*
Carissini, Massimo; and Ravenna, Franco, 3,682,927.
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Davis, Gerald W.; Farrow, Gerald; and Ravenna, Nestor A., 3,636,131.
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Hesperi, Winfried, 3,666,706.
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Shair, Fredrick H.; and Ravimohan, Arakali L., 3,703,460.
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Cocke, John; Mommens, Jacques H.; and Raviv, Josef, 3,701,111.
Loh, Louis S.; Mommens, Jacques H.; and Raviv, Josef, 3,694,813.
Loh, Louis S.; Mommens, Jacques H.; and Raviv, Josef, 3,701,108.
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Jommi, Giancarlo; and Riva, Giovanna, 3,654,267.

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Bird, Brian Michael; and Rawcliffe, Gordon Hindle, 3,703,672.
Broadway, Alexander Richard William; Fong, William; and Rawcliffe, Gordon Hindle, 3,673,477.
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Anderson, Raymond H., Jr.; Rawe, Richard A.; and Whiteson, Bennett V., 3,667,107.
- Rawling, John R.: *See—*
Themelis, Nickolas J.; and Rawling, John R., 3,663,207.
- Rawlings, Gilbert Douglas: *See—*
Fleming, David Alexander, Jr.; and Rawlings, Gilbert Douglas, 3,660,222.
- Rawlings, Herbert L., to Baychem Corporation, mesne. Stabilized polycarbonates. 3,640,951, 2-8-72, Cl. 260-45.8.
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Samuel, Jon Michael Glen; and Rawlings, James Earl, 3,686,051.
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Wollum, James E.; Rawlings, Robert L.; and Davidson, James Clark, 3,646,519.
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- Rawson, Eric Gordon: *See—*
Herriott, Donald Richard; and Rawson, Eric Gordon, 3,677,651.
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Rawson, James L.; and Rawson, Leslie E., 3,703,810.
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Gilbert, Leslie Arthur, 3,673,691.
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Ross, Donald Nixon; and Ray, Derek Barrie, 3,655,306.
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Young, Charles H.; and Ray, Donald L., 3,672,238.
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Brown, Barry M.; and Ray, Elbert L., 3,701,431.
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Gray, Roy A.; Kittleman, Edmund T.; and Ray, Gardner C., 3,632,804.
Gray, Roy A.; Kittleman, Edmund T.; and Ray, Gardner C., 3,707,512.
- Ray, George H., Jr.: *See—*
Shekel, Jacob; and Ray, George H., Jr., 3,639,840.
- Ray, Glenn E., to American Olean Tile Company, Inc., mesne. Trowel for both applying coating material and removing the excess material. 3,686,703, 8-29-72, Cl. 15-235.400.
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Mac Phail, Larry S.; Ray, Harold; Smith, Oral P.; and Hall, Lee C., 3,682,054.
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Sanderford, Freeman M.; and Ray, Jack C., 3,699,041.
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- Ray, Jimmy C. Rate of flow alarm. 3,689,908, 9-5-72, Cl. 340-239.000.
- Ray, Jimmy C. Sleeve splitter. 3,698,085, 10-17-72, Cl. 30-90.400.
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Hansen, Carl Arthur, 3,681,873.
- Ray, Ralph D. Rotary actuator. 3,694,782, 9-26-72, Cl. 335-230.000.
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Deuringer, Rudolf; Ray, Robert A.; and Sternberg, James C., 3,701,716.
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Lennner, Herbert W.; and Ray, Roger E., 3,707,651.
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- Ray, Royce W.: *See—*
Rohrbach, Royal E.; and Ray, Royce W., 3,678,773.
- Ray, Tommy D. Strap assembly for securing a patient's arm to an arm board. 3,640,273, 2-8-72, Cl. 128-87.
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Georgoudis, Paul C.; and Ray-Chaudhuri, Dilip K., 3,660,010.
Stockmann, Hans H.; and Ray-Chaudhuri, Dilip K., 3,647,763.
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- Ray-Chaudhuri, Dilip K.; and Iovine, Carmine P., to National Starch and Chemical Corporation. Water- and oil repellency agents. 3,660,360, 5-2-72, Cl. 260-78.
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Hetrich, Arthur Ronald, 3,692,889.
Orzechowski, John F.; and Haley, Thomas W., 3,676,038.
Pruitt, Charles N.; Segars, Douglas L.; and Miller, Walter L., 3,647,336.
Slade, Winton Lloyd, 3,658,976.
- Rayburn, Charles C., to Illinois Tool Works Inc. Wound film capacitor. 3,638,086, 1-25-72, Cl. 317-260.
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Baldwin, William M., Jr.; and Rayburn, Vincent A., 3,650,142.
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Allan, Donald R., 3,643,986.
Althouse, Victor E., 3,639,917.
Althouse, Victor E., 3,677,875.
Deal, Robert S.; and Evans, Joseph H., 3,679,189.
Ganzhorn, Harry E., 3,678,174.
Hess, Robert L., 3,669,824.
Stivers, Edward C., 3,677,921.
Wetmore, Judson Douglas; and Allan, Donald R., 3,662,094.

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Baker, Harold L., 3,658,977.
- Raygo, Inc.: *See—*
Csathy, Denis G., 3,702,633.
Takata, Harry H., 3,650,185.
Takata, Harry H., 3,672,460.
Takata, Harry H., 3,702,638.
- Raygor, Paul O.: *See—*
Brody, Thomas P.; Page, Derrick J.; and Raygor, Paul O., 3,657,613.
Page, Derrick J.; and Raygor, Paul O., 3,669,060.
Sun, Shan C.; and Raygor, Paul O., 3,678,339.
- Raymann, Elizabeth F. Sun bathing and tanning apparatus. 3,688,775, 9-5-72, Cl. 128-366.000.
- Raymer, Doyle, to UMC Industries, Inc. Cleaning system for the ice maker of a vendor. 3,638,448, 2-1-72, Cl. 62-233.
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- Raymond, Anthony J.: *See—*
Krengel, Theodore H.; Ostrowski, Arthur E.; and Raymond, Anthony J., 3,696,503.
- Raymond, David W.: *See—*
McClelland, Robert G.; and Raymond, David W., 3,667,171.
- Raymond, Donald H.: *See—*
Manning, Robert A.; and Raymond, Donald H., 3,635,802.
- Raymond, Douglas G., to SCM Corporation. Impregnation and lamination resin solutions, methods and articles produced thereby. 3,669,727, 6-13-72, Cl. 117-148.000.
- Raymond Engineering, Inc.: *See—*
Sergan, Anthony J., 3,683,686.
- Raymond, Fernand: *See—*
Fabre, Pierre; Giroud-Garampon Robert; Gondrand, Michel; and Raymond, Fernand, 3,695,909.
- Raymond, Glendon A., to Carrier Corporation. Refrigeration system. 3,677,028, 7-18-72, Cl. 62-200.000.
- Raymond, Gordon H.: *See—*
Swanke, Roy L.; and Raymond, Gordon H., 3,678,288.
Swanke, Roy L.; and Raymond, Gordon H., 3,678,357.
- Raymond International, Inc.: *See—*
Cavin, Lewis Fred, 3,654,767.
Fuller, Frank M., 3,685,302.
- Godley, Augustus P.; Fuller, Francis M.; Houk, Charles R.; Holland, Henry A. Nelson; and Gendron, George J., 3,641,775.
- Hilton, Joseph Lawrence; Graff, Charles Russell; and Cavin, Lewis Fred, 3,646,766.
- Hilton, Joseph Lawrence; Graff, Charles Russell; and Cavin, Lewis Fred, 3,690,388.
- Hull, Judd R., 3,691,776.
- Phares, Lindsey J., 3,685,583.
- Raymond, James W., to Reach-All Manufacturing Company. Apparatus for automatically maintaining the angular position of an aerial platform used in conjunction with a boom. 3,645,359, 2-29-72, Cl. 182-2.
- Raymond, Joseph Edward: *See—*
De Ritter, Elmer; and Raymond, Joseph Edward, 3,676,556.
- Raymond, Julius R., to CCI Aerospace Corporation. Disposable recirculating dialysate module. 3,703,959, 11-28-72, Cl. 210-87.000.
- Raymond, Lee, Organization, Inc., The: *See—*
Hair, Betty J., 3,655,236.
Kimmel, Ray D., 3,685,661.
- Raymond, Louis W.; and Gussack, Mark C., to Superior Plating Company. Chrome plating of titanium. 3,691,029, 9-12-72, Cl. 204-37.00r.
- Raymond, Mark H.: *See—*
Plemmons, Jerry R.; and Raymond, Mark H., 3,705,300.
- Raymond, Maurice A., to Olin Corporation. Curable divinyl acetal copolymers. 3,640,968, 2-8-72, Cl. 260-77.5.
- Raymond, Richard L., to Sun Research and Development Company. Microbial production of novel hydroxyphenyl ketobutyric acids. 3,676,299, 7-11-72, Cl. 195-28.00r.
- Raymond, William J.: *See—*
Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K., 3,637,221.
Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K., 3,697,162.
- Raymus, Grantges J., to Union Carbide Corporation. End capped cylindrical package. 3,669,255, 6-13-72, Cl. 206-59.00f.
- Raynal, Jean: *See—*
Bucourt, Robert; Vignau, Michel; and Raynal, Jean, 3,637,754.
Bucourt, Robert; Vignau, Michel; and Raynal, Jean, 3,637,755.
Bucourt, Robert; Vignau, Michel; and Raynal, Jean, 3,637,756.
- Raynaud, Guy M.: *See—*
Douzon, Colette A.; Huguet, Gerard J.; Fauran, Claude I.; Raynaud, Guy M.; and Gouret, Claude J., 3,654,298.
Fauran, Claude P.; Raynaud, Guy M.; Pourrias, Bernard M.; and Turin, Michel J., 3,634,411.
Fauran, Claude P.; Raynaud, Guy M.; Oliver, Rene A.; and Douzon, Colette A., 3,641,036.
Fauran, Claude P.; Raynaud, Guy M.; Gouret, Claude J.; and Douzon, Colette A., 3,642,806.
Fauran, Claude P.; Raynaud, Guy M.; Oliver, Rene A.; and Douzon, Colette A., 3,655,687.
Fauran, Claude P.; Turin, Michel J.; Raynaud, Guy M.; and Gouret, Claude C., 3,658,821.
Fauran, Claude P.; Raynaud, Guy M.; Duzon, Colette A.; and Gouret, Claude J., 3,663,572.
Fauran, Claude P.; Raynaud, Guy M.; Pourrias, Bernard M.; and Douzon, Colette A., 3,665,014.
Fauran, Claude P.; Gouret, Claude J.; Raynaud, Guy M.; and Douzon, Colette A., 3,687,965.
Fauran, Claude P.; Turin, Michel J.; Raynaud, Guy M.; and Pourrias, Bernard M., 3,704,305.
Furan, Claude P.; Raynaud, Guy M.; Eberle, Jeannine A.; and Thomas, Janine M., 3,658,822.
Gautier, Jean A.; Miocque, Marcel Y.; Moskowit, Henri; Blanc-Guenee, Janine L.; Raynaud, Guy M.; and Dorme, Nicole A. M., 3,655,762.
- Raynaud, Guy M.; Fauran, Claude P.; Turin, Michel J.; Pourrias, Bernard M.; and Huguet, Gerard J., to Delalande S.A. N-(6-Methyl-6-ol-2-heptyl-N'-substituted piperazines. 3,696,100, 10-3-72, Cl. 260-247.50r.
- Rayner, John William Frederick: *See—*
King, George; Rayner, John William Frederick; and Powell, Anthony Charles, 3,647,536.
- Rayner, Wilfred H. G., to Clarke and Smith Manufacturing Company Limited. Joystick control switch. 3,639,705, 2-1-72, Cl. 200-6.
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- Raynes, Burt F.; Kanatsiz, Necati; and Otte, Robert E., to Rohr Corporation. System for positioning a wheeled carrier. 3,666,118, 5-30-72, Cl. 214-38.00b.
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- Raynor, Russell C.: *See—*
Jablon, Theodore M.; and Raynor, Russell C., 3,704,789.
- Raynor, Terence Robert: *See—*
Kindell, Colin David; and Raynor, Terence Robert, 3,673,665.
- Raynor, Terence Robert, to AMP Incorporated, mesne. Electrical connector for vehicle instruments. 3,699,495, 10-17-72, Cl. 339-17.00c.
- Raynor, Terence Robert; and Abbott, Peter Charles Terence, to AMP Incorporated, mesne. Electrical connector. 3,702,455, 11-7-72, Cl. 339-17.00c.
- Rayonier Incorporated: *See—*
Daul, George C.; and Barch, Fabian P., 3,632,468.
- Rayport, Mark; and Schulte, Rudolf R. Biopsy clamp. 3,687,131, 8-29-72, Cl. 128-2.00b.
- Rayson Engineering Pty. Ltd.: *See—*
Turner, Raymond, 3,666,115.
- Raytheon Company: *See—*
Bickford, William J., 3,633,169.
Bickford, William J.; De Bettencourt, Joseph T.; Roche, James F.; and Rowland, Howard J., 3,646,443.
Bickford, William J.; and Cease, Richard G., 3,706,946.
Bonis, Scott R.; Salzer, Thomas E.; and Robillard, David R., 3,635,333.
Bryden, Joseph E., 3,646,549.
Bryden, Joseph E.; and Chambers, Derek, 3,697,955.
Bryden, Joseph E., 3,702,470.
Bushnell, David; Fuller, Roger L.; and Oliver, Joseph J., 3,641,569.
Caccamesi, Vincent C.; and Der Marderosian, Aaron C., 3,675,468.
Cease, Richard G.; and Bickford, William J., 3,681,695.
Cherwek, Roland A., 3,706,095.
Connerney, William R., 3,670,268.
Crowe, William J.; and Geissler, Robert G., 3,646,466.
De Falco, Frank A.; and Bobo, Stephen N., 3,666,949.
Derby, Palmer P., 3,664,039.
Diamond, Paul, 3,703,003.
Dill, William E.; La Vault, Maurice G.; Kokoszka, Stanley L.; and Shrader, William W., 3,639,892.
Domenichini, Carlo P.; and Terjenian, Leo, 3,681,652.
Drislane, Cornelius J., 3,646,564.

- Dudley, Kenneth W.; and Mac Master, George H., 3,646,388.
- Edwards, Oliver J., Jr., 3,669,523.
- Engelhardt, Bjorn H., 3,641,449.
- Engelhardt, Bjorn H., 3,706,925.
- Estlick, Raymond J., 3,677,005.
- Estlick, Raymond J., 3,696,684.
- Fassett, Matthew, 3,665,480.
- Foreman, Robert J., 3,706,910.
- Freedman, Nathan; and Hart, Harold M., 3,649,918.
- Fridman, Jonathan D.; Kinnard, Kenneth F.; Meister, Kurt A.; and Young, Robert M., 3,649,919.
- Fuller, Roger L.; Kaye, Robert K.; Oliver, Joseph J.; and Rood, William H., 3,646,580.
- Goldstone, Bertram J., 3,680,105.
- Goldstone, Bertram J., 3,680,110.
- Goldstone, Bertram J., 3,686,490.
- Hands, Edward, 3,674,945.
- Haggood, William H., 3,663,150.
- Haggood, William H., 3,704,748.
- Haggood, William H., 3,706,303.
- Hatcher, Burrell R.; Miccioli, Aldo R.; Mohr, Max C.; and Sheldon, Edward J., 3,706,998.
- Havel, Joseph F., 3,663,759.
- Heimann, Richard F., 3,643,219.
- Heimann, Richard F., 3,699,531.
- Helgeson, Peter L.; and Egervary, Tibor I., 3,706,302.
- Henning, Harley B., 3,694,656.
- Henning, Harley Barry, 3,688,101.
- Israel, Henry M., 3,675,116.
- Jedrychowski, Jerzy L.; and Robinson, Peter, 3,706,947.
- Jones, William C.; and McConnell, Dan R., 3,662,140.
- Kasabian, Joseph A., 3,649,787.
- Kelleher, John J., Jr., 3,639,784.
- Klein, Stanley Frank, 3,699,535.
- Krah, Hans-Joachim; Sklenak, John S.; and Smith, William A., 3,666,983.
- Monaghan, Stephen R.; and Hanfling, Jerome D., 3,639,863.
- Monser, George J., 3,641,580.
- O'Loughlin, James P., 3,675,115.
- Osepchuk, John M., 3,654,596.
- Rattman, William J.; Wasson, Frank R., Jr.; and Mackenzie, Gordon C., 3,669,540.
- Rowland, Howard J., 3,646,608.
- Scharfman, Howard, 3,660,787.
- Scheid, William J., 3,700,378.
- Seager, Ronald W., 3,697,783.
- Smith, Burton H., 3,646,467.
- Smith, Burton H., 3,670,196.
- Steudel, Fritz, 3,680,109.
- Toledo, Emil; and Sprague, Dennis R., 3,647,654.
- Tsao, Carson K. H.; and De Bettencourt, Joseph T., 3,660,754.
- Tsao, Carson K. H.; De Bettencourt, Joseph T.; and Rowland, Howard J., 3,680,133.
- Unger, Robert McCowan, 3,670,197.
- Van Doren, Arnold H., 3,646,548.
- Walsh, George M.; and Chramiec, Mark A., 3,665,413.
- Walsh, George M., 3,681,747.
- Watkins, Robert A.; and Schuma, Richard F., 3,632,871.
- Whitehouse, David R., 3,633,125.
- Razal, Albert J.: *See—*
Schwaller, Lando J.; and Razal, Albert J., 3,636,737.
Schwaller, Lando J.; and Razal, Albert J., 3,662,573.
Schwaller, Lando J.; Razal, Albert J.; and White, John G., 3,675,450.
- Razdan, Raj K.: *See—*
Pars, Harry G.; Granchelli, Felix E.; and Razdan, Raj K., 3,635,993.
Pars, Harry G.; and Razdan, Raj K., 3,652,576.
- Razdan, Raj K., to United States of America, Army, mesne. 1-[2-(Phenyl)-lower-alkyl]-aziridines. 3,637,662, 1-25-72, Cl. 260-239.
- Razdan, Raj K.; Granchelli, Felix E.; and Pars, Harry G., to Little, Arthur D., Inc. 4-Oxo-9-hydroxy-7-(3-methyl-2-octyl)-1, 2,3,4-tetrahydrocyclopenta[c][1]benzopyran. 3,639,426, 2-1-72, Cl. 260-343.2.
- Razdan, Raj K.; Granchelli, Felix E.; and Pars, Harry G., to Little, Arthur D., Inc. Novel 1,2,3,4-tetrahydro-(and 1,2,3,4,12,13-hexahydro) cyclopenta[c][1]benzopyrans. 3,639,427, 2-1-72, Cl. 260-345.3.
- Razdan, Raj K.; and Pars, Harry G., to Little, Arthur D., Inc. Novel derivatives of tetrahydrocannabinol. 3,649,650, 3-14-72, Cl. 260-345.3.
- Razdan, Raj K.; Thompson, William R.; Granchelli, Felix E.; and Pars, Harry G., to Little, Arthur D., Inc., mesne. Tetrahydropyridyl-5-resorcinols. 3,661,919, 5-9-72, Cl. 260-297.
- Razdan, Raj K.; and Johnson, Fatima N., to Little, Arthur D., Inc., mesne. 5-Hydroxy-4-(4-phenyl-1-piperazinyl)-hydrobenz [c,d] indoles. 3,705,161, 12-5-72, Cl. 260-268.0tr.
- Razdan, Raj K.; and Thompson, William R., to Beecham Group Limited, mesne. Certain 4-(4-pyridyl)-5-hydroxy-coumarin intermediates. 3,707,474, 12-26-72, Cl. 260-295.00f.
- Razelton, Donald R.: *See—*
Johnson, Duane M.; and Razelton, Donald R., 3,698,968.
- Razmerov, Vladimir Ivanovich: *See—*
Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Iexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,719.
- Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratin, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,720.
- Raznitsyn, Mikhail Alexeevich. Method of electroerosion machining of parts and device for effecting same. 3,671,705, 6-20-72, Cl. 219-69.00c.
- Raznov, Jerry L.; and Warren, Donald E., to Ametek, Inc. Flat face tape scale indicator. 3,656,451, 4-18-72, Cl. 116-70.
- Raznov, Jerry L., to Ametek, Inc. Adjustment mechanism for cabin altimeter rotatable light head. 3,685,360, 8-22-72, Cl. 73-384.000.
- Razor, Billy Gene: *See—*
Centolella, Albert Peter; and Razor, Billy Gene, 3,661,955.
Centolella, Albert Peter; and Razor, Billy Gene, 3,667,966.
- Razumovsky, Alexandr Petrovich: *See—*
Amosov, Pavel Evgenievich; Smekhov, Vitaly Konstantinovich; Trofimov, Valery Leonidovich; Shvarts, Aveli Isaich; Shnepp, Vladimir Borisovich; and Razumovsky, Alexandr Petrovich, 3,692,441.
- Razzano, John S.: *See—*
Karstedt, Bruce D.; and Razzano, John S., 3,671,546.
- Razzano, John S.; and Smith, Alfred H., to General Electric Company. Process for treating reinforcing silica filler. 3,700,473, 10-24-72, Cl. 106-288.00q.
- RCA Corporation: *See—*
Ahrns, Richard Wilfred, 3,676,711.
Ahrns, Richard Wilfred, 3,678,407.
Aiduck, Carl Joseph; and Mancini, Ronald Alfred, 3,702,941.
Allen, John Kenneth; and Norman, Marvin Neil, 3,692,931.
Allington, Trevor Richard; and McClellan, James Richard, 3,663,276.
Allington, Trevor Richard, 3,669,733.
Allington, Trevor Richard, 3,676,252.
Alphonse, Gerard Argant, 3,698,794.
Amodei, Juan Jose, 3,651,488.
Amodei, Juan Jose; and Williams, Richard, 3,660,818.
Anderson, George Edward, 3,647,944.
Assour, Jacques Mayer; Rosen, Arye; and Reynolds, James Francis, 3,659,222.
Assour, Jacques Mayer, 3,696,272.
Athanias, Terry George, 3,673,428.
Athanias, Terry George, 3,674,551.
Avins, Jack, 3,667,060.
Avins, Jack; and Craft, Jack, 3,673,499.
Avins, Jack, 3,678,405.
Avins, Jack, 3,678,406.
Avins, Jack; and Kirkwood, Loren Robert, 3,679,816.
Avins, Jack; and Craft, Jack, 3,697,885.
Ball, Henry; and Peterson, Hold Le Roy, 3,647,952.
Banfield, Joseph Henry; Husni, Saleem Ynes; and Greig, William John, 3,686,080.
Barbin, Robert Lloyd, 3,668,580.
Barkow, William Henry, 3,663,907.
Bartolini, Robert Alfred; and Lurie, Michael Jay, 3,632,869.
Baughner, Dale Milton; and Hausman, Earl Thomas, 3,648,116.
Becke, Hans W.; Cave, Eric F.; and Stalnitz, Daniel, 3,659,334.
Beelitz, Howard Raymond, 3,651,421.
Bell, Barry Bernard; and Pederson, Wellington Edward, 3,653,941.
Beltz, John Prickett, 3,643,019.
Beyers, Billy Wesley; and Tretter, Larry Lee Roy, 3,699,529.
Bharali, Uipalananda, 3,654,441.
Bokey, Edward Joseph, III, 3,699,403.
Bokey, Edward Joseph; and Burns, Joseph Richard, 3,646,666.
Bokey, Edward Joseph, 3,699,395.
Bolger, Thomas V., 3,646,260.
Boltz, Charles D., Jr., 3,679,827.
Bond, Donald S., 3,641,432.
Bond, Donald Spencer, 3,678,180.
Bond, Donald Spencer, 3,691,978.
Bonneter, Richard Arthur, 3,673,652.
Bosomworth, Douglas Robert, 3,700,791.
Brackelmanns, Norbert William, 3,666,573.
Bridgewater, Thomas Austin, 3,706,016.
Brooks, Robert Lee, 3,665,570.
Brown, Martin Kamp, 3,643,299.
Bruce, Ross William, Jr., 3,655,912.
Bucher, Jean Bertolet, 3,645,634.
Burns, Joseph Richard; and Scott, Joseph Hurlong, 3,636,418.
Burns, Joseph Richard, 3,701,984.
Burtis, Stokes Fenimore, 3,704,207.

Butler, Jaquith Gould, 3,689,914.
Butler, Robert John, 3,647,965.
Byers, Larry Joe; and Keeth, James Maurice, 3,652,938.
Callaghan, John D., 3,683,391.
Cannuli, Vincent Michael, 3,692,594.
Caplan, Sandor; and Lamorte, Michael F., 3,701,047.
Caprarola, Leroy J., 3,674,568.
Carlson, David John, 3,649,937.
Carlson, David John, 3,694,756.
Carn, Peter Swift; and Schiess, George, 3,673,320.
Castellano, Joseph Anthony; and Friel, Ronald Norman, 3,674,342.
Castellano, Joseph Anthony, 3,703,329.
Chang, Kern Ko Nan; and Prager, Hans John, 3,649,881.
Chang, Kern Ko Nan, 3,691,338.
Chen, Vallon Wei-Loong; and Amemiya, Hiroshi, 3,638,039.
Chiodi, Wayne Richard, 3,643,192.
Christensen, Edward Walter, II; and Eu Daly, Ronald Dale, 3,697,909.
Christopher, Todd J., 3,688,154.
Chung-Sen Ih, Charles, 3,689,692.
Clay, Burton Ross, 3,695,744.
Clover, Richmond Bennett, Jr., 3,673,582.
Cochran, Larry Allen, 3,701,844.
Collard, Jacques Roger; Narayan, Subrahmanyam Yegna; and Paczkowski, John Paul, 3,665,254.
Collard, Jacques Roger, 3,678,995.
Cooperman, Michael, 3,671,768.
Craft, Jack, 3,678,403.
Craft, Jack, 3,701,022.
Crow, Robert Palmer, 3,665,317.
Daly, Francis Patrick, 3,679,942.
D'Augustine, Frank Thomas, 3,672,932.
Deal, Samuel Broughton; and Bartch, Donald Walter, 3,680,236.
Deal, Samuel Broughton; and Bartch, Donald Walter, 3,703,401.
Dean, Raymond Harkless, 3,706,014.
Degenkolb, Robert Stephen; and Skaw, Eugene Raymond, 3,681,713.
Denning, Richard, 3,632,436.
Di Stefano, Ralph David; and James, Edward Anthony, 3,640,765.
Dickens, Bernard L.; Melchionni, Bruno F.; and Werner, Raymond R., 3,653,608.
Dickens, Bernard L.; Kudla, Leonard J.; Luther, Arch C., Jr.; and Melchionni, Bruno F., 3,654,400.
Dienst, Joseph F., 3,662,289.
Dietz, Wolfgang Friedrich Wilhelm, 3,638,067.
Digilio, Frank Anthony, 3,655,126.
Dingwall, Andrew G. F., 3,644,802.
Dingwall, Andrew G. F., 3,673,018.
Dingwall, Andrew G. F., 3,688,264.
Dingwall, Andrew Gordon Francis, 3,651,342.
Dingwall, Andrew Gordon Francis, 3,703,667.
Dischert, Robert Adams, 3,651,250.
Dischert, Robert Adams; and Monahan, John Francis, 3,684,825.
Dischert, William Arnold, 3,686,590.
Dismukes, John Pickett, 3,669,774.
Dix, Westley Wayne, 3,663,887.
Dodd, John A., Jr.; and Geshner, Robert A., 3,698,903.
Dodd, John Alton, Jr.; and Line, George Harry, 3,674,488.
Donald, Philip Joseph, 3,681,071.
Donoghue, William James, 3,697,777.
Douglas, Edward Curtis, 3,697,178.
Duffy, Michael Thomas, 3,702,786.
Einthoven, Willem Gerard; and Donnell, Howard Kenneth, 3,664,894.
Einthoven, Willem Gerard; Jetter, Evelyn Speter; and Wheatley, Carl Franklin, Jr., 3,676,229.
Epifano, Robert Nicholas; and Jordan, Eugene Leon, 3,700,497.
Etter, Robert William, 3,653,901.
Evans, Wayne Wheeler, 3,632,864.
Evans, Wayne Wheeler, 3,662,270.
Feldstein, Nathan, 3,661,581.
Feldstein, Nathan; and Lancsek, Thomas Stephen, 3,666,527.
Feldstein, Nathan, 3,669,770.
Feldstein, Nathan, 3,672,925.
Feldstein, Nathan, 3,681,110.
Feldstein, Nathan, 3,690,944.
Feldstein, Nathan, 3,697,319.
Files, John Austin, 3,658,401.
Fisher, Dennis Glendon, 3,669,735.
Fitzgerald, William Vincent, Jr., 3,641,398.
Fitzgerald, William Vincent, Jr.; and Wilmarth, Paul Carlton, 3,688,031.
Flory, Robert Earl; and Spong, Fred William, 3,637,925.
Foley, Thomas Umbrecht, 3,659,232.
Freggens, Robert A., 3,658,125.
Freggens, Robert Alfred, 3,672,020.

Frey, Harry Robert, 3,685,994.
Frey, Harry Robert, 3,706,558.
Fulton, Thomas Philip; and Di Luca, Henry, 3,640,767.
Gamble, Edward Bernard, 3,641,362.
Gamble, Edward Bernard; and Aires, Ramon Hess, 3,641,368.
Gardiner, Arthur Noel, 3,685,137.
Gaylor, John Wallen, 3,659,164.
George, John Barrett; and Hilliker, Stephen Earl, 3,651,409.
George, John Barrett, 3,688,198.
Gerritsen, Hendrik J.; and Hannan, William J., 3,650,595.
Giaimo, Edward Charles, Jr., 3,664,298.
Giaimo, Edward Charles, Jr., 3,699,335.
Gibson, J. James, 3,649,749.
Gibson, J. James, 3,649,750.
Giel, George James, 3,706,861.
Goldammer, Freeland Robert; and Albrecht, Harold Denton, Jr., 3,657,674.
Goldmacher, Joel E.; and Heilmeier, George H., 3,703,331.
Goldsmith, Alfred Norton, 3,674,921.
Gorkiewicz, Walter Joseph; and Van Raalte, John A., 3,704,936.
Goun, Nathan M.; and Wheatley, Carl F., Jr., 3,665,256.
Graf, Stefano, 3,644,838.
Graf, Stefano Arturo, 3,648,153.
Greenaway, David L.; and Russell, John P., 3,658,403.
Greenaway, David L., 3,658,404.
Greenaway, David Leslie; and Russell, John Patrick, 3,643,216.
Greig, William John; and Soden, Ralph Robert, 3,668,484.
Griepentrog, Dal Frank, 3,674,932.
Gronka, Edward Anthony, 3,698,786.
Guadagnolo, Robert Noel, 3,686,516.
Haferl, Peter Eduard, 3,700,958.
Haines, Alan Paul, 3,663,862.
Hampel, Daniel, 3,678,292.
Hanak, Joseph John, 3,634,933.
Hanchett, George D., 3,671,778.
Hanchett, George D., 3,680,068.
Hanchett, George Draper, 3,654,440.
Hannan, William James, 3,647,945.
Hannan, William James; Russell, John Patrick; and Firester, Arthur Herbert, 3,703,407.
Harford, Jack Rudolph, 3,634,620.
Harford, Jack Rudolph, 3,673,498.
Harlow, Loraine C.; Ransburg, Stephen D.; and Mehaffey, Lester L., 3,662,051.
Harrison, Sol Esther; and Drake, Robert, 3,690,889.
Harwood, Leopold Albert, 3,663,744.
Harwood, Leopold Albert; and Wittmann, Erwin Johann, 3,699,257.
Hawrylo, Frank Z., 3,649,382.
Hawrylo, Frank Zygmunt; and Kressel, Henry, 3,692,593.
Heilmeier, George H.; and Goldmacher, Joel E., 3,650,603.
Heilmeier, George H., 3,655,269.
Heiman, Frederic Paul, 3,647,438.
Helbig, Walter A.; and Woods, William E., 3,637,211.
Helvy, Fred Anderson, 3,658,400.
Hernqvist, Karl G., 3,639,804.
Hernqvist, Karl Gerhard, 3,683,295.
Herrmann, Donald Charles; and Bazin, Lucas John, 3,651,339.
Heuner, Robert Charles; and Fillmore, Richard Plumb, 3,702,943.
Heyman, Philip Michael, 3,700,804.
Heyman, Philip Michael; and Gorog, Istvan, 3,706,845.
Hildebrants, Arnis, 3,697,686.
Hirsch, Charles J., 3,688,131.
Hovagimyan, Norman; and Van Delft, Robert Neale, 3,639,908.
Hsueh, Chia Ying, 3,681,693.
Hunter, Gregory Michael, 3,699,533.
Hurst, Robert Norman, 3,684,826.
Husni, Saleem Ynees, 3,668,770.
Hutto, Edgar, Jr.; and Mahoney, James P., 3,651,328.
Ipri, Alfred Charles, 3,688,037.
Jacob, Charles Junior; and Lawton, Gerald Wayne, 3,669,734.
Janz, Donald Walter, 3,651,419.
Johnson, David August, 3,681,703.
Juroff, Lyle Bruce; and Lunn, Lawrence Mark, 3,648,135.
Juroff, Lyle Bruce; and Lunn, Mark Lawrence, 3,691,444.
Katagi, Kazuo, 3,643,220.
Katnack, Fredric Leroy, 3,667,008.
Kaufman, Melvin Murray, 3,679,911.
Kawamoto, Birohisa, 3,683,298.
Kawamoto, Hiroshisa; and Allen, Elmer Lawrence, Jr., 3,702,971.
Keller, Jean-Paul; and Graf, Stefano A., 3,649,887.
Kelly, Gordon Emmet, 3,699,562.
Keneman, Scott Allen; and Miller, Arthur, 3,680,060.
Kiess, Helmut Gustav, 3,675,096.
Kimbrough, Laurence B., 3,672,014.
Kimbrough, Laurence B., 3,701,674.
Kirkwood, Loren Robert; Cochran, Larry Allen; and Alt-manshofer, Robert Dale, 3,701,842.

LIST OF PATENTEES

Kisor, Thaddeus William, 3,653,498.
Klein, Richard I.; Caplan, Sandor; and Hansen, Ralph T., 3,689,131.
Klein, Richard Ira; and Caplan, Sandor, 3,647,280.
Kressel, Henry; and Pankove, Jacques Isaac, 3,667,007.
Krupa, John Eugene; and Paglee, Mario Robert, 3,668,561.
Kuznetsoff, Philip, 3,663,997.
Ladany, Ivan, 3,647,579.
Lamorte, Michael F., 3,697,336.
Law, Harold Bell; and Lee, Ray Hui-Chung, 3,631,576.
Lee, Harry Charles, 3,639,787.
Lee, Walter Wright, 3,666,359.
Lehmann, William Lester, 3,675,095.
Levene, Martin Lewis; and Yamamoto, Mitsuru, 3,672,763.
Levene, Martin Lewis, 3,707,723.
Levine, Peter Alan; and Shing-Gong, Liu, 3,638,141.
Limberg, Allen Le Roy, 3,646,362.
Limberg, Allen Le Roy, 3,649,847.
Limberg, Allen Le Roy, 3,651,346.
Limberg, Allen Le Roy, 3,651,347.
Limberg, Allen Le Roy, 3,673,505.
Limberg, Allen Le Roy, 3,679,981.
Limberg, Allen Le Roy, 3,679,982.
Limberg, Allen Le Roy, 3,707,603.
Limberg, Allen Leroy; and Steckler, Steven Alan, 3,641,361.
Lindburg, Norman Lee; and Woodland, Hamilton David, 3,631,593.
Long, George E., III; Grove, Francis D.; and Bartch, Donald W., 3,635,751.
Long, George E., III; and Bartch, Donald Walter, 3,689,312.
Louth, Kenneth, 3,654,387.
Louth, Kenneth, 3,654,398.
Luedicke, Eduard; and Silver, Robert Steven, 3,675,134.
Lunn, Lawrence Mark, 3,707,597.
Macovski, Albert, 3,641,255.
Macovski, Albert, 3,702,725.
Maddox, William Joseph; and Weingarten, Morris Robert, 3,636,836.
Madrazo, Charles Felix; Fulcher, Edwin Maxwell; and McDonagh, Kevin Patrick, 3,699,355.
Mancini, Ronald Alfred, 3,699,476.
Mao, Roger Alain, 3,653,745.
Marinelli, Donald Paul, 3,692,592.
Marlowe, Frank Jerome; and Nester, Edward Oskar, 3,654,606.
Marsh, James Courtland, Jr., 3,699,400.
Masse, Michel Stephane; and McDowell, James Paul, 3,683,254.
Matthies, Dennis Lee, 3,661,444.
Mawhinney, Daniel David, 3,659,223.
Mayaud, Edith Ellen, 3,661,580.
McArdle, John Joseph; and Rauck, Robert Louis, 3,697,800.
McDonald, Woodward Oakley, 3,678,418.
McGrogan, Ellwood Patrick, Jr., 3,676,702.
Meslener, George John, 3,670,249.
Meyer, John Evert, 3,659,118.
Meyer, John Evert, 3,676,705.
Miller, Anthony Zbigniew, 3,662,454.
Miller, Arthur, 3,672,746.
Miller, Michael Evans, 3,699,268.
Mirkovic, Ninko Tihomir, 3,638,881.
Mirsch, John Walter, 3,701,065.
Month, Alfred; and Thornburg, David Lawrence, 3,653,883.
Morris, Lewis C., 3,688,207.
Mosher, Frank Howard; and Jenney, Earle Gifford, 3,653,411.
Moss, Herbert Irwin, 3,661,570.
Moss, Herbert Irwin; and Hockings, Eric Francis, 3,676,610.
Mrozek, Pawel K., 3,641,461.
Murray, Lawrence Aloysius, 3,700,507.
Napoli, Louis Sebastian, 3,654,572.
Napoli, Louis Sebastian; and Hughes, John Joseph, 3,656,030.
Napoli, Louis Sebastian, 3,659,228.
Napoli, Louis Sebastian; and Hughes, John Joseph, 3,686,624.
Nelson, Herbert, 3,694,275.
Newcomb, Gilbert Shelton, 3,689,913.
Nicoll, Fredrick Hermes, 3,657,735.
Norris, Peter Edward, 3,658,672.
Notarius, Harold, 3,649,309.
Nyul, Paul, 3,686,543.
Oates, William Lee, 3,637,917.
Okamoto, Fumio; Wada, Yasuo; and Miyatani, Kazuo, 3,679,379.
Olsen, Perry Charles; and Tang, Pak Chong, 3,673,318.
Olsen, Perry Charles; and Tang, Pak Chong, 3,679,819.
Olson, Charles Langdon; and Dischert, Robert Adams, 3,692,918.
Olson, Larry Alan, 3,659,044.
O'Toole, John J., 3,663,745.
Owens, Raymond Clyde, 3,641,474.
Owens, Raymond Clyde; and Thomas, Lucius Ponder, 3,668,475.
Palmer, Fred Irwin; and Fogleboch, John Richard, 3,705,355.
Pankove, Jacques Isaac, 3,683,240.

Papiano, Francis John, 3,690,943.
Perlman, Barry Stuart; and Walsh, Thomas Edward, 3,644,839.
Perlman, Stuart Stanley; and McCusker, Joseph Henry, 3,683,211.
Peterson, Donald William, 3,653,056.
Phillips, Kevin John, 3,695,554.
Phillips, William, 3,684,727.
Pike, Winthrop Selley, 3,670,179.
Planzo, Carmine Stephen, 3,659,035.
Presser, Adolph, 3,693,118.
Pryor, Richard Lee, 3,638,129.
Purdy, Don Ryall; and Donnelly, William Edward, 3,648,167.
Ragland, Frank Rowland, Jr., 3,676,129.
Ragland, Frank Rowland, Jr., 3,701,193.
Rajchman, Jan Aleksander; and Kosonocky, Walter Frank, 3,656,121.
Rapp, Adolph Karl; and Bharali, Utpalananda, 3,706,889.
Rempert, Lawrence Arnold; and Helpert, Edward Philip, 3,670,153.
Richard, Norman; Jean, Robert; Huh, William; and Patton, Wil-lard Thomas, 3,698,000.
Richter, Fred Eric, 3,695,960.
Robbins, Murray, 3,676,082.
Robitschek, George Conrad, 3,668,668.
Ross, Donald Alexander, 3,667,841.
Ross, Edward Charles, 3,649,848.
Ross, Edward Charles, 3,702,990.
Royce, Martin Robert, 3,657,138.
Russo, Robert Ritter, 3,682,785.
Russo, Robert Ritter, 3,704,208.
Ryan, Robert J., 3,640,853.
Ryan, Robert James; Burtis, Stokes Fenimore; and Grogan, John Thomas, 3,682,784.
Saeki, Tomoki, 3,637,935.
Saxena, Arjun Nath, 3,687,722.
Saxena, Arjun Nath, 3,694,719.
Saxena, Arjun Nath, 3,700,979.
Schlieben, Ernest William, 3,685,857.
Schrader, Edward Robert, 3,668,581.
Schwartzman, Stanley, 3,686,539.
Scott, Howard Mulder; and Corson, Carl Rutherford, 3,638,214.
Scott, Richard David, 3,707,254.
Sen Ih, Charles Chung; and Lurie, Michael Jay, 3,669,673.
Shidlovsky, Igal, 3,705,323.
Siekanowicz, Wieslaw Wojciech, 3,648,197.
Siekanowicz, Wieslaw Wojciech, 3,668,563.
Silver, Robert Steven; and Luedicke, Eduard, 3,646,390.
Silverman, Herbert William, 3,665,504.
Simon, Ralph E.; and Williams, Brown F., 3,699,404.
Smith, Bradford Knox, 3,652,323.
Smith, Lawrence Edward; and Gries, Robert Joseph, 3,668,463.
Smith, Lawrence Edward, 3,684,920.
Smith, Richard Deming, 3,673,573.
Sorkin, Howard; and Klein, Richard Ira, 3,698,449.
Speers, Robert Ray, 3,695,956.
Stahl, Robert Michael, 3,666,153.
Stark, John, Jr.; and Carpenter, David Harry, 3,701,845.
Steckler, Steven Alan, 3,636,475.
Steckler, Steven Alan, 3,641,258.
Steckler, Steven Alan, 3,641,448.
Steckler, Steven Alan, 3,701,032.
Stern, Herman Abraham, 3,701,368.
Sterzer, Fred, 3,636,461.
Studel, Goetz Wolfgang, 3,702,446.
Stewart, Neil Rutherford; and Preslar, Donald Ray, 3,643,156.
Stobbe, Walter Marshall, 3,634,612.
Stoller, Arthur Irwin; and Schilp, William Henry, Jr., 3,635,510.
Stoller, Arthur Irwin; and Opresko, Stephen Thomas, 3,677,848.
Stoudenheimer, Richard G.; and Dourte, Rodger P., 3,697,794.
Strater, Kurt; Hall, William Bernard; Mihalick, Eugene Michael; and Stever, William Charles, 3,673,983.
Taylor, George William, 3,703,332.
Thall, Earle Solomon, 3,679,284.
Thibodeau, Gregg Joseph, 3,679,989.
Thorpe, Laurence Joseph, 3,671,667.
Thorpe, Laurence Joseph, 3,689,694.
Tietjen, James Joseph; Williams, Brown F.; and Wang, Chih Chun, 3,699,401.
Upadhyayula, Chainulu Lakshminarasimha; and Perlman, Berry Stuart, 3,686,578.
Van Raalte, John A.; and Gorkiewicz, Walter Joseph, 3,637,308.
Van Renssen, Marinus, 3,701,185.
Van Taylor, George, 3,677,505.
Vigh, Michael Walter; and Rocheleau, Harold Thomas, 3,661,641.
Vossen, John Louis, Jr., 3,640,811.
Vossen, John Louis, Jr.; and Banfield, Joseph Henry, 3,640,812.
Vossen, John Louis, Jr., 3,692,655.
Walters, William R., 3,693,030.
Waltner, Ronald Keith, 3,649,901.

- Wang, Chih Chun, 3,658,586.
 Warner, Clifford George; and Kade, James Henry, 3,698,057.
 Warren, Henry Ray, 3,661,311.
 Warren, Henry Ray, 3,700,152.
 Watson, James Power, 3,648,279.
 Weaver, Harry Zane, 3,706,132.
 Weimer, Paul Kessler, 3,660,667.
 Weimer, Paul Kessler, 3,676,590.
 Weimer, Paul Kessler, 3,683,193.
 Weimer, Paul Kessler, 3,696,250.
 Weinberg, Zeev Abraham, 3,656,011.
 Wen, Cheng Paul, 3,646,486.
 Wen, Cheng Paul, 3,653,054.
 Wen, Cheng Paul, 3,654,556.
 Wheatley, Carl Franklin, Jr., 3,688,153.
 Whittemore, Maurice James, Jr., 3,688,025.
 Widmer, Alois Erhard, 3,653,989.
 Williams, John Garland, 3,701,107.
 Wilmarth, Paul Carleton, 3,692,932.
 Wittlinger, Harold Allen; Wheatley, Carl Franklin, Jr.; and Knapp, Russell Daniel, 3,671,782.
 Wittmann, Erwin Johann, 3,651,418.
 Wlasuk, Steven, 3,656,062.
 Woodward, Oakley McDonald, 3,656,071.
 Woynood, Dennis J., 3,646,568.
 Yongue, James McIntire, 3,697,817.
 Yorganjian, John James, 3,634,876.
 Yorganjian, John James, 3,671,881.
 Zuk, Borys, 3,636,527.
 Zuk, Borys, 3,675,144.
 RCA Corporation of America: *See—*
 Yao, Ying Luh, 3,684,899.
 RdF West: *See—*
 Mcgunigle, Richard D., 3,646,281.
 Re Baratelli, Giuseppe, to Ramostar Corporation. Glare shielding device, 3,654,631, 4-11-72, Cl. 2-14.
 Re, Carlo, to Dyna-Shield, Inc. Mixing apparatus, 3,666,241, 5-30-72, Cl. 259-6.
 Re, Carlo; Conrad, Earl O.; and Conrad, Jack R., to Dyna-Shield, Inc. mesne. Heat barrier material and process, 3,692,682, 9-19-72, Cl. 252-62.000.
 Re, Frank M., to Dual Manufacturing and Engineering, Incorporated. Mechanism for rocker/reclining chair and for reclining chair, 3,637,255, 1-25-72, Cl. 295-85.
 Re, Jerry Peter, to Borden, Inc. Stable phenolic adhesive mix, 3,696,064, 10-3-72, Cl. 260-17.200.
 Re-Flect-O-Lite Corporation: *See—*
 Toedter, William C., 3,654,053.
 Rea, Donald E.: *See—*
 Call, Henry M.; Crain, Norman Robert; Crain, William W.; Politt, Gary L.; and Rea, Donald E., 3,684,864.
 Crain, N. Robert; Crain, William W.; Politt, Gary L.; and Rea, Donald E., 3,684,076.
 Crain, Norman Robert; and Rea, Donald E., 3,639,732.
 REA International Corporation: *See—*
 Feltman, Stanley, 3,691,449.
 Rea, William E.: *See—*
 Sequeira, Avilino, Jr.; Jolly, James P.; and Rea, William E., 3,661,772.
 Reabe, Kenneth G.; and Dressler, Hans, to Koppers Company, Inc. Method for the preparation of hydroxyalkyl ethers, 3,644,534, 2-22-72, Cl. 260-613.
 Reach-All Manufacturing Company: *See—*
 Raymond, James W., 3,645,359.
 Reactive Metals, Inc.: *See—*
 Rohrabough, Roy E., 3,645,124.
 Reactor Centrum Nederland: *See—*
 Kanij, Johannes B. W.; and Nouthout, Arend J., 3,669,632.
 Piepers, Gijbreccht G.; Vons, Leonard H.; Van Der Linde, Aart; and Lijbrink, Eduard, 3,646,994.
 Theyse, Frederik Herman, 3,706,059.
 Reactor Centrum Nederland (Stichting): *See—*
 Lagerwey, Johannes; Ijstra, Hendrik J.; and Andriesse, George F. J., 3,672,472.
 Read, Benjamin Hays; and Black, Rexford E., to Signetics Corporation. Electrolytic etch apparatus, 3,703,458, 11-21-72, Cl. 204-198.000.
 Read, George: *See—*
 Holmes, Frank; Arias, Henry, Jr.; and Read, George, 3,675,883.
 Read, George D.: *See—*
 Gewertz, Harry R.; and Read, George D., 3,640,558.
 Read, George D., to Ajax Hardware Manufacturing Corporation. Swinging door lock construction, 3,633,955, 1-11-72, Cl. 292-292.
 Read, George W. Method and apparatus for converting a tricycle to a bicycle, 3,658,354, 4-25-72, Cl. 280-7.15.
 Read, Harold H.; and Read, Juil Lee. Paint shield for carpet edges, 3,633,542, 1-11-72, Cl. 118-505.
 Read, John D., to Mohawk Data Sciences Corporation. Reversible ribbon feed device, 3,632,052, 1-4-72, Cl. 242-67.4.
 Read, Juil Lee: *See—*
 Read, Harold H.; and Read, Juil Lee, 3,633,542.

- Read, Mervyn H. H.: *See—*
 Blackham, Norman; and Read, Mervyn H. H., 3,668,520.
 Read, Ronald G.: *See—*
 Verge, Kenneth W.; Kachman, Robert D.; and Read, Ronald G., 3,700,362.
 Reade, Grahame Melvin, to Imperial Chemical Industries Limited. Process for shrinking film, 3,679,791, 7-25-72, Cl. 264-342.0re.
 Reade, Richard F., to Corning Glass Works. Terbium activated radioluminescent silicate glasses, 3,654,172, 4-4-72, Cl. 252-301.4.
 Reade, Stephen E.: *See—*
 Kelem, Lester S.; and Reade, Stephen E., 3,686,565.
 Kelem, Lester S.; and Reade, Stephen E., 3,706,049.
 Reader, Arthur M.: *See—*
 Stuetz, Dagobert E.; Belohlav, Leo R.; and Reader, Arthur M., 3,634,035.
 Reader, Arthur M.; and Stackman, Robert W., to Celanese Corporation. Sulfobetaine glycol modified poly(ethylene terephthalate), 3,673,158, 6-27-72, Cl. 260-75.
 Reader, Charles T.; and Renz, John F. Monitoring system utilizing amplitude coding of signals remote to central, 3,704,447, 11-28-72, Cl. 340-172.000.
 Reader, Malcolm: *See—*
 Jacob, Gerald W.; Mogul, Eugene; Boros, Paul Z.; Schiff, David; Reader, Malcolm; and Kamen, Ira, 3,646,256.
 Reader, Malcolm; Tregay, John L.; and Stern, Charles, to Comfax Communications Industries, Inc. Image transmitter using microfilm positives or negatives as source, 3,647,955, 3-7-72, Cl. 178-7.6.
 Reader, Trevor D., to General Electric Company. Laminar fluidic devices, 3,662,772, 5-16-72, Cl. 137-81.5.
 Readex Electronics, Inc.: *See—*
 Rouse, Donald W., 3,688,271.
 Read-Temp Inc.: *See—*
 Donnelly, William R., 3,685,507.
 Reading, James E.: *See—*
 Goy, Thomas J.; Knieriemen, Richard P.; and Reading, James E., 3,640,390.
 Radio, Philip D.: *See—*
 Schrage, Albert; and Radio, Philip D., 3,696,169.
 Schrage, Albert; and Radio, Philip D., 3,699,186.
 Schramm, Charles H.; Schrage, Albert; and Radio, Philip D., 3,701,751.
 Readus, La Verne: *See—*
 Woods, Virgle L.; and Readus, La Verne, 3,701,504.
 Ready Metal Manufacturing Company: *See—*
 Radek, John R., 3,677,415.
 Radek, John R., 3,677,614.
 Ready, William C.; Puig, John E.; and Van Leuwen, Bruce G., to Olin Corporation. Process for molding a multiple density polyurethane foamed product, 3,658,972, 4-25-72, Cl. 264-52.000.
 Readyhough, Peter A., to Textron, Inc. Nail having a pair of outwardly diverging head elements shaped to provide packaging, driving and fastening effectiveness and package thereof, 3,696,701, 10-10-72, Cl. 85-28.000.
 Reagan, Donald W.: *See—*
 Michcon, Lester; and Reagan, Donald W., 3,668,897.
 Michcon, Lester; and Reagan, Donald W., 3,660,991.
 Realisations Techniques Industrielles: *See—*
 Charrier, Rene, 3,642,588.
 Realisations Ultrasoniques: *See—*
 Dory, Jacques, 3,641,817.
 Realty & Industrial Corporation: *See—*
 Gubelmann, William S., 3,655,953.
 Reams, Bernard W.: *See—*
 Potter, Jack D.; and Reams, Bernard W., 3,671,692.
 Reams, Robert M. Horticultural method for giving seeds, plants and harvested items hygroscopic character during arid conditions, 3,678,621, 7-25-72, Cl. 47-58.000.
 Reams, William H., to United States of America, Navy. Arming device, 3,677,185, 7-18-72, Cl. 102-78.000.
 Rear, Melvin K.; and Greivell, Robert L., to American Hoist & Derrick Company. Excavating machine, 3,680,919, 8-1-72, Cl. 299-39.000.
 Reardon, Vincent D.: *See—*
 Arino, Hirofumi; and Reardon, Vincent D., 3,663,177.
 Reas, Arley J.: *See—*
 Hartzell, James R.; and Reas, Arley J., 3,689,175.
 Reasenber, Julian R.; and Drucker, Rubin, to Mizzy Inc. Ethyl 2-methyl-2-n-propylamino-propyl succinate, 3,702,865, 11-14-72, Cl. 260-485.00j.
 Reason, Dennis Joseph; and Green, Leslie James, to Hunting Engineering Limited. Seating structure, 3,653,713, 4-4-72, Cl. 297-232.
 Reasoner, Edwin W.: *See—*
 Jachimowicz, Ludwik; Reasoner, Edwin W.; and Olszewski, Jerzy A., 3,662,091.
 Reasor, Robert L.: *See—*
 Phillips, Robert James; Reasor, Robert L.; and Wiley, Donald F., 3,688,971.
 Reaves, Henry V., to Xomox Corporation. Vane-type actuator, 3,688,645, 9-5-72, Cl. 92-125.000.

- Reaves, John E. Apparatus for heating thermoplastic frames for glasses, 3,637,982, 1-25-72, Cl. 219-368.
 Reaves, Robert S.; and Bordelon, Madel A., to Allis-Chalmers Manufacturing Company. Floating feeder beater, 3,659,403, 5-2-72, Cl. 56-10.2.
 Reaves, Robert S., to Allis-Chalmers Manufacturing Company. Bin unloader break back system, 3,670,913, 6-20-72, Cl. 214-522.000.
 Reavis, Clifford L., Jr., to Interlectron Corporation, mesne. Method of making a laminated article comprising blood or skin tissue samples, 3,673,037, 6-27-72, Cl. 156-280.000.
 Rebane, George J.; and Braunheim, Stephen T. Utensil polarizing apparatus, 3,645,369, 2-29-72, Cl. 193-43.
 Rebaudo, Mauro: *See—*
 Della Porta, Paolo; and Rebaudo, Mauro, 3,657,589.
 Rebecchini, Eugene J.: *See—*
 Rorer, Gerhard K.; Rebecchini, Eugene J.; and Vosburg, Guy M., 3,678,848.
 Rebellier, Michel: *See—*
 Meyer, Colette; and Rebellier, Michel, 3,650,068.
 Reber, Robert L.; and Huiskens, James C., to Communications Transistor Corporation. Method and apparatus for etching fine line patterns in metal on semiconductive devices, 3,678,348, 7-18-72, Cl. 317-235.000.
 Reber, Russell H.; and Mescher, Harold E., to Pacific Scientific Company. Integral quench furnace and transfer mechanism, 3,659,831, 5-2-72, Cl. 266-4.00a.
 Reber, Walter. Cutter mechanism for agricultural machines or lawn mowers, 3,664,102, 5-23-72, Cl. 56-295.000.
 Reber, Walter, to Societe dite: Kuhn Freres & Cie., Societe en Commandite Simple. Agricultural machine with articulated frame and rotary implements, 3,690,055, 9-12-72, Cl. 56-370.000.
 Reber, Walter, to Societe dite: Societe Kuhn Freres & Cie. Societe en Commandite Simple. Mechanism for regulating tool-carrier arms on spinner-type agricultural machines, 3,704,577, 12-5-72, Cl. 56-370.000.
 Reber, Willy Ernst; Nigst, Henry; Haas, Josef; Batzer, Hans; and Zuppinger, Paul. Process for the manufacture of flexible surgical and orthopedic bandage materials, 3,669,708, 6-13-72, Cl. 117-33.000.
 Rebertus, Robert L., to Minnesota Mining and Manufacturing Company. Process for preparing difluorodiazirine, 3,692,771, 9-19-72, Cl. 260-239.0aa.
 Rebertus, Robert L.; and Fields, Richard P., to Minnesota Mining and Manufacturing Company. Process for preparing salts of tris (difluoramino) methoxy alkyl amines, 3,692,838, 9-19-72, Cl. 260-584.00c.
 Rebiere, Jean: *See—*
 Dufour, Jacques; Perroud, Paul H.; Petres, Jacques; and Rebiere, Jean, 3,691,840.
 Rebillet, Marcel. Traffic signals having annular colored illuminated tube around each signal lens, 3,688,259, 8-29-72, Cl. 340-112.00r.
 Rebold, Jerome I., to Black and Decker Manufacturing Company. The Socket release construction for socket wrench, 3,638,519, 2-1-72, Cl. 81-177.
 Rebold, Jerome I., 1/3 to Bloom, Leonard. Portable power-operated douching appliance, 3,653,377, 4-4-72, Cl. 128-66.
 Reboul, Jean-Philippe: *See—*
 Galves, Jean-Pierre; Monfroy, Henri; and Reboul, Jean-Philippe, 3,706,899.
 Reboulet, William C.; and Werner, David C., to National Cash Register Company. The Automatic repeat mechanism, 3,633,819, 1-11-72, Cl. 235-62.
 Rebsamen, Arthur, to Leesona Corporation. Textile machine, 3,638,412, 2-1-72, Cl. 57-52.
 Rebsdat, Siegfried: *See—*
 Hahn, Helmut; Rebsdat, Siegfried; Ruchlak, Kasimir; and Schuierer, Erich, 3,681,426.
 Hahn, Helmut; and Rebsdat, Siegfried, 3,689,545.
 Rebuffe, Pascal: *See—*
 Jouet, Etienne; and Rebuffe, Pascal, 3,705,618.
 Rebut, Paul-Henri: *See—*
 Huguet, Michel; Rebut, Paul-Henri; and Torossian, Antoine, 3,684,992.
 Recaro Aktiengesellschaft: *See—*
 Faust, Eberhard, 3,635,524.
 Faust, Eberhard O.; and Keith, Klaus, 3,650,561.
 Strien, Werner; and Faust, Eberhard, 3,697,128.
 Recasens, Joseph, to L'Electro-Refractaire. Cluster casting apparatus for workpieces made of poured molten refractory material, 3,697,037, 10-10-72, Cl. 249-81.000.
 Recchia, Frank P.; and Ulrich, Henri, to Upjohn Company. The Process for preparing di(aminophenyl)-methanes, 3,676,497, 7-11-72, Cl. 260-570.00d.
 Recchuite, Alexander D.: *See—*
 Kohn, Edward M.; and Recchuite, Alexander D., 3,632,426.
 Kohn, Edward M.; and Recchuite, Alexander D., 3,653,958.
 Rech, Jakob, to Burroughs Corporation. Method of and apparatus for corrugating pliable material, 3,667,268, 6-6-72, Cl. 72-133.000.
 Recherche et Industrie Therapeutiques, R.I.T.: *See—*
 De Somer, Pierre; and Claes, Paul, 3,679,795.
 Eyssen, Henrik, 3,640,848.
 Huygelen, Constant; and Peetermans, Julien, 3,686,394.
 Recherches et Applications des Plastiques Dans l'Industrie et le Bâtiment, S.A.: *See—*
 Carlini, Dominique, 3,652,366.
 Recht, Friedel. Tobacco pipe bowl, 3,707,154, 12-26-72, Cl. 131-216.000.
 Recht, Howard L.; and Ghassemi, Masood, to North American Rockwell Corporation. Rare earth ion removal from waste water, 3,692,671, 9-19-72, Cl. 210-45.000.
 Rechter, Harold L.: *See—*
 Bortz, Seymour A.; Rechter, Harold L.; Reynolds, William E.; and Bazell, Seymour, 3,662,405.
 Rechter, Marvin: *See—*
 Herman, Lawrence; and Rechter, Marvin, 3,682,386.
 Reck, Richard A.; and Abramitis, Walter W., to Armour Industrial Chemical Company, mesne. Plant hormone carboxylic acid salts of aliphatic polyamines, 3,683,010, 8-8-72, Cl. 260-501.160.
 Reckers, Donald J., to Pollution Control, Inc. Method and apparatus for tertiary treatment of effluent, 3,642,134, 2-15-72, Cl. 210-73.
 Reckitt & Colman Products Limited, mesne: *See—*
 Lewis, John William; and Harry, Edward James Ryley, 3,634,454.
 Recks, John A., to Honeywell Inc. Serial bit comparator with selectable bases of comparison, 3,660,823, 5-2-72, Cl. 340-146.2.
 Reckseit, Bernard S.; and Burgess, George A., to Sweco, Inc. Hoist pans and hoist pan handling apparatus, 3,697,006, 10-10-72, Cl. 241-171.000.
 Reckziegel, Erich: *See—*
 Hellmig, Ehrhard; and Reckziegel, Erich, 3,663,220.
 Nittel, Fritz; and Reckziegel, Erich, 3,689,271.
 Reclosable Package Corporation: *See—*
 Miller, Harmon B., 3,671,271.
 Recognition Devices, Inc.: *See—*
 Lester, Robert W., 3,696,384.
 Recognition Equipment Incorporated: *See—*
 Philipson, Herman L., Jr., 3,703,628.
 Recognition Equipment Incorporated, mesne: *See—*
 Gingras, William P.; and Van Der Linden, Roy E., 3,659,110.
 Holt, Arthur W., 3,651,461.
 Record, Robert George Hamilton; Wilson, Haydn; and Rudd, Derek Austen, to Kent, George, Limited. Electrode assembly, 3,645,875, 2-29-72, Cl. 204-195.
 Record Watch Co., S. A.: *See—*
 Golay, Jean-Pierre; and Gerber, Bernard, 3,664,120.
 Recovery Systems Research, Inc.: *See—*
 Ferguson, Otis B., 3,655,151.
 Rector, Carl T. Underwater diving garment construction, 3,643,264, 2-22-72, Cl. 2-2.1.
 Rector, Jacob. Resistance elements, 3,648,216, 3-7-72, Cl. 338-142.
 Red, David D. Structural column and construction, 3,672,711, 6-27-72, Cl. 287-189.36r.
 Red Devil Incorporated: *See—*
 Meisner, Edward H., 3,648,322.
 Red Jacket Manufacturing Company: *See—*
 Deters, Elmer M., 3,692,050.
 Red Lake Laboratories: *See—*
 Whitley, Ernest M., 3,637,298.
 Redatron Corporation: *See—*
 Wolf, Edgar, 3,673,527.
 Reddemann, Bernhard H.: *See—*
 Wincierz, Peter; Ruhle, Manfred; Reddemann, Bernhard H.; Schirra, Manfred; and Bohm, Horst Otto, 3,635,700.
 Reddemann, Bernhard Hermann: *See—*
 Laue, Hans-Jürgen Rainer; Bohm, Horst Otto; and Reddemann, Bernhard Hermann, 3,674,470.
 Redden, Robert Francis, to Cominco Ltd. Method of producing zinc alloy, 3,694,199, 9-26-72, Cl. 75-178.00c.
 Redden, Robert J., to ILC Industries, Inc. Automatic safety curtain apparatus for air enclosing structures, 3,682,225, 8-8-72, Cl. 160-98.000.
 Redden, Robert J., to ILC Industries, Inc. Fabric connector, 3,698,045, 10-17-72, Cl. 24-203.000.
 Reddick, Willis C., to International Telephone and Telegraph Corporation. Hands-free emergency call box, 3,707,607, 12-26-72, Cl. 179-100.00l.
 Redding, Arnold H., to Westinghouse Electric Corporation. Rotor structure and method of broaching the same, 3,692,429, 9-19-72, Cl. 416-201.000.
 Reddy, Robert R. Lip seal, 3,635,499, 1-18-72, Cl. 285-111.
 Reddy, Robert R. Releasable shaft lock, 3,679,244, 7-25-72, Cl. 287-20.00r.
 Reddy, Sudhakar M.: *See—*
 Burton, Herbert O.; Reddy, Sudhakar M.; Sullivan, Daniel D.; and Tong, Shih Y., 3,638,182.
 Reddyk, Cornelis Wilfred: *See—*
 Madsen, Henning Schmidt; and Reddyk, Cornelis Wilfred, 3,663,768.

Redecker, Henry W.; and Zisa, William J., to Westinghouse Electric Corporation. Electrical device having current limiter and spark gap. 3,648,166, 3-7-72, Cl. 324-110.

Redecker, Henry W.; and Bezgela, Eugene G. Meter with small tilt error. 3,693,086, 9-19-72, Cl. 324-155.000.

Redeco, Inc.: *See—*

Schwartz, Ralph E., 3,677,022.

Redeker, Kurt. Method and means for improving and increasing the reliability of hydraulic and pneumatic multi-circuit control systems. 3,702,120, 11-7-72, Cl. 137-1.000.

Redel, Joseph; and Boch, Jean Baptiste Christian, to A. E. C. Societe de Chimie Organique et Biologique. Process of preparing phytone. 3,676,499, 7-11-72, Cl. 260-593.000.

Redelman, Paul E., to Interlake Steel Corporation. Hydraulic load carrier. 3,704,800, 12-5-72, Cl. 214-730.000.

Redemat S.A.: *See—*

Erdmann-Jesnitzer, Friedrich; and Rehfeldt, Dietrich, 3,673,377.

Jesnitzer, Friedrich Erdmann; and Rehfeldt, Dietrich, 3,679,865.

Redemat S.A. Holding: *See—*

Erdmann-Jesnitzer, Friedrich; and Rehfeldt, Dietrich, 3,632,960.

Redenbach, Friedrich. Alarm clock controlled pill dispensing device. 3,651,984, 3-28-72, Cl. 221-3.

Reder, Hurl: *See—*

Schiekel, Manfred; and Reder, Hurl, 3,684,345.

Rederiaktiebolaget Nordstjernan: *See—*

Jonsson, Kurt Alfred, 3,671,220.

Jonsson, Per Hjalmar, 3,674,370.

Nordqvist, Karl Gustav, 3,655,990.

Svanstrom, Elis Kjell Ake, 3,661,557.

Svanstrom, Elis Kjell Ake; and Ramqvist, Lars Henry, 3,701,649.

Redetzky, Wolfgang: *See—*

Ley, Kurt; Nast, Roland; Redetzky, Wolfgang; and Kempermann, Theo, 3,661,905.

Redex Societe Anonyme: *See—*

Defontenay, Paul, 3,656,363.

Redford, Alan: *See—*

Redford, George; and Redford, Alan, 3,651,625.

Redford, David Arthur, to Canadian Fina Oil Limited. Method for extracting bitumen from tar sands. 3,687,197, 8-29-72, Cl. 166-272.000.

Redford, David Arthur, to Canadian Fina Oil Limited. Process for developing interwell communication in a tar sand. 3,706,341, 12-19-72, Cl. 166-275.000.

Redford, George; and Redford, Alan. Harvester. 3,651,625, 3-28-72, Cl. 56-128.

Redict, Donald E. Board game apparatus. 3,659,852, 5-2-72, Cl. 273-134.

Redifon Limited: *See—*

Cutler, Albert Ernest, 3,631,610.

Rogers, Ernest W.; and Learney, Lewis P., 3,683,289.

Shelley, Meville L., 3,694,938.

Rediger, Alvin L.: *See—*

Hoffmeyer, William R.; and Rediger, Alvin L., 3,650,167.

Rediger, John R.: *See—*

Alexander, George F.; Kessinger, Orville E., Jr.; Rediger, John R.; and Reinsma, Harold L., 3,695,737.

Rediker, Robert H., to Massachusetts Institute of Technology. Method of and apparatus for enhancing radiation from indirect-gap semiconductors. 3,636,471, 1-18-72, Cl. 331-94.5.

Redin, Gunnar Sigurd: *See—*

McCoy, Mary Eloise; and Redin, Gunnar Sigurd, 3,706,833.

Redington Counters, Inc.: *See—*

McConnell, Edwin J., 3,643,071.

McConnell, Edwin J., 3,686,481.

Redington, Rowland W., to General Electric Company. Diode array storage system having a self-registered target and method of forming. 3,698,078, 10-17-72, Cl. 29-578.000.

Redland Bricks Limited: *See—*

Schueler, George Berthold Edward, 3,670,063.

Redland Tiles Limited: *See—*

Chapman, Vincent Frank, 3,631,574.

Redland Tiles Limited, mesne: *See—*

Powel, William Sydney, 3,677,686.

Redlich, Horst: *See—*

Dickopp, Gerhard; Klemp, Hans-Joachim; Redlich, Horst; and Schuller, Eduard, 3,652,809.

Schuller, Eduard; Redlich, Horst; Dickopp, Gerhard; and Klemp, Hans-Joachim, 3,691,318.

Redlich, Robert W. Colinear antenna apparatus. 3,680,147, 7-25-72, Cl. 343-792.000.

Redman, Horace E.: *See—*

Ashby, Eugene C.; Foster, Walter E.; and Redman, Horace E., 3,639,104.

Redman, Howard E.: *See—*

Kalning, Frederick E.; and Redman, Howard E., 3,641,954.

Redman, Howard E.; and Kalning, Frederick E. Mattress closing machine with automatic positioning means for a mattress assembly. 3,664,280, 5-23-72, Cl. 112-3.

Redman Industries, Inc., mesne: *See—*

Honeycutt, Don R., 3,703,850.

Redman, John Wilson: *See—*

Boroughs, Raymond Milton; and Redman, John Wilson, 3,670,888.

Redman, Michael J., to Kennecott Copper Corporation. Micaceous tellurites and the method of making them. 3,702,888, 11-14-72, Cl. 423-508.000.

Redman, Samuel A.: *See—*

Johnston, Lynn M.; Jones, Chester G.; Krebs, Frederick G.; and Redman, Samuel A., 3,631,797.

Johnston, Lynn M.; Jones, Chester G.; Neal, Harold D.; and Redman, Samuel A., 3,636,868.

Krebs, Frederick G.; Marcey, Stephen D.; and Redman, Samuel A., 3,635,156.

Krebs, Frederick G.; and Redman, Samuel A., 3,652,965.

Redmann, Jerome J., to International Telephone and Telegraph Corporation. Ranging and aiming system. 3,706,493, 12-19-72, Cl. 356-4.000.

Redmer Sons Co.: *See—*

Redmer, Wilbert William, 3,693,815.

Redmer, Wilbert W. Method and apparatus for orienting a rod or tube having a beveled end. 3,631,990, 1-4-72, Cl. 214-1.

Redmer, Wilbert William, to Redmer Sons Co. Method for orienting a rod or tube having a beveled end. 3,693,815, 9-26-72, Cl. 214-152.000.

Redmond John A.: *See—*

Emerson, William A.; and Redmond John A., 3,674,971.

Redmond, Sanford; and Sawicki, Frederick F. Counter loader packaging machine. 3,631,652, 1-4-72, Cl. 53-124.

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Koch, Werner G.; Marchell, Robert H.; and Redmond, William G., 3,646,754.

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Redner, Eugene S.: *See—*

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Redo, Ronald W. Maze toy. 3,692,311, 9-19-72, Cl. 273-153.00r.

Redtzky, Wolfgang: *See—*

Nast, Roland; Ley, Kurt; Redtzky, Wolfgang; and Kempermann, Theo, 3,639,485.

Redwanz, James O., to Texas Instruments, Incorporated. Semiconductor interconnecting system using conductive patterns bonded to thin flexible insulating films. 3,662,230, 5-9-72, Cl. 317-234.

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Redwine, Fletcher H.: *See—*

Moore, Wesley W.; and Redwine, Fletcher H., 3,658,298.

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Reece, Albert Benjamin John; and Heap, Harry Rodney, to Tracked Hovercraft Limited. Linear induction motor bail. 3,631,809, 1-4-71, Cl. 104-148.

Reece, Jack E.; and Fozzard, George B., to Phillips Petroleum Company. Certain thiazine-2-thione compounds and method of preparing same. 3,697,516, 10-10-72, Cl. 260-243.00r.

Reece, Paul; and Graham, Peter H., to General Electric Company. Laminated dynamoelectric machine core and method of stacking. 3,652,889, 3-28-72, Cl. 310-259.

Reece, Thomas L., to Dover Corporation. Filtration system. 3,692,178, 9-19-72, Cl. 210-82.000.

Reece, Thomas L.; and Bryant, Thurman E., to Dover Corporation, mesne. Filter with rotating backwash selector. 3,703,465, 11-21-72, Cl. 210-333.000.

Reed, Charles B. Gyroscopic stable reference apparatus. 3,648,525, 3-14-72, Cl. 74-5.34.

Reed, Charles G.: *See—*

Sleater, Roland G.; and Reed, Charles G., 3,634,769.

Reed, Clyde E., to Sperry Rand Corporation. Method of hydrostatically forming a tunnel structure for a magnetic plated wire memory array. 3,643,325, 2-22-72, Cl. 29-604.

Reed, David H.: *See—*

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Reed, Donald A., to Boeing Company, The. Lag frequency selective damper. 3,638,885, 2-1-72, Cl. 244-17.27.

Reed, Donald E.: *See—*

Cover, Paul F.; Rife, John W.; Kemper, Clyde F.; and Reed, Donald E., 3,685,519.

Reed, Donald L. Remote controlled football game with pass play apparatus. 3,672,674, 6-27-72, Cl. 273-94.00r.

Reed, Dwight L. Adjustable stand. 3,664,629, 5-23-72, Cl. 248-445.

Reed, Edward W.: *See—*

Black, J. Harold; Reed, Edward W.; and Stant, Vernon C., 3,636,363.

Reed, Edwin Emmett: *See—*

Hays, Robert Guy; Pennell, Charles Ronald; Reed, Edwin Emmett; and Volk, Charles Edward, 3,690,969.

Reed, Everett E.; and Boynton, James S., to United Tool Processes Corporation. Valve-guide coring tool. 3,674,375, 7-4-72, Cl. 408-103.000.

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Reed, Gaylard O., to Salem Equipment, Inc. Log pre-centering apparatus for veneer lathes. 3,664,395, 5-23-72, Cl. 144-209.

Reed, Gaylard O. Drive assembly for dual chuck veneer lathes. 3,672,416, 6-27-72, Cl. 144-209.000.

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Fierle, Robert J.; Mott, James A.; Oles, Herbert E.; and Reed, George A., 3,688,689.

Reed, Gerald D.: *See—*

Scoggin, Baxter I., Jr.; Vaughan, Woodrow E.; and Reed, Gerald D., 3,654,754.

Reed, Glenn A.: *See—*

Budrow, Jack C.; and Reed, Glenn A., 3,665,477.

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Reed, Hugh Charles Brent: *See—*

Melrose, David R.; Patterson, Ronald Lowdon Straiton; and Reed, Hugh Charles Brent, 3,681,490.

Reed, Jack L., to Riverton Industries, Inc. Device for creating spray from a water ski. 3,685,068, 8-22-72, Cl. 9-310.00r.

Reed, Jack Owen, to Bard-Hamilton Company, Inc. Intracutaneous injection system. 3,688,764, 9-5-72, Cl. 128-2.00r.

Reed, James M., to Littelfuse, Inc. Fuse extractor unit. 3,654,824, 4-11-72, Cl. 81-3.8.

Reed, Jerry L.: *See—*

Versaw, Edward F.; Moe, Herbert C.; and Reed, Jerry L., 3,693,880.

Reed, Jerry L., to United States of America, Navy. Exhaust system. 3,631,678, 1-4-72, Cl. 60-264.

Reed, Jerry O.; and Dix, James S., to Phillips Petroleum Company. Color stabilized poly(arylene sulfide)resins. 3,658,753, 4-25-72, Cl. 260-45.7.

Reed, Joe A.; and Reed, John D. Opener. 3,656,375, 4-18-72, Cl. 81-3.46.

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Reed, Joe A.; and Reed, John D., 3,656,375.

Reed, John F., to New Britain Machine Company, The. Motor drive system with acceleration-deceleration controls. 3,636,424, 1-18-72, Cl. 318-259.

Reed, John M.; Reynard, John M.; and Scibilia, Peter A., to Polaroid Corporation. Electronic flash unit. 3,705,540, 12-12-72, Cl. 95-11.50r.

Reed, Kenneth James; McGillvray, Donald Ian; and Fletcher, Jack, to McCorquodale Colour Display Limited. Application of liquid colours to paper card or other smooth surfaces. 3,632,382, 1-4-72, Cl. 117-38.

Reed, L. J., to Motorola, Inc. Resonant circuit transistor oscillator system. 3,665,342, 5-23-72, Cl. 331-109.000.

Reed, Madison W., Jr.; and Schwemer, Warren C., to Advanced Technology Center, Inc., mesne. Method of making a porous carbon material. 3,647,551, 3-7-72, Cl. 136-122.

Reed, Meuril F., to Gillette Company, The. Writing instrument cap securing means. 3,666,373, 5-30-72, Cl. 401-247.

Reed Paper Group Limited: *See—*

Smith, Michael John; and Lane, William Charles, 3,654,745.

Reed, Peter William Maurice, to Ozalid Company Limited. Diazo-type materials. 3,661,591, 5-9-72, Cl. 96-91.

Reed, Ray. Holder for license plates and signs. 3,683,529, 8-15-72, Cl. 40-209.000.

Reed, Ray Allen: *See—*

Ault, Cyrus Frank; Reed, Ray Allen; and Reichert, William George, Jr., 3,704,383.

Reed, Robert D.: *See—*

Zink, John Smith; and Reed, Robert D., 3,639,095.

Zink, John Smith; Goodnight, Hershel; and Reed, Robert D., 3,659,962.

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Reed, Robert D.; Goodnight, Hershel; and Zink, John Smith, to Zink, John, Company. Burner assembly for combustion of oil. 3,632,287, 1-4-72, Cl. 431-350.

Reed, Robert D., to Zink, John, Company. Apparatus for sulfur recovery. 3,661,534, 5-9-72, Cl. 23-262.

Reed, Robert D.; and Zink, John Smith, to Zink, John, Company. Pressurized fuel burner. 3,684,189, 8-15-72, Cl. 239-425.500.

Reed, Robert D., to Zink, John, Company. Burner assembly for flare stack. 3,697,231, 10-10-72, Cl. 23-277.00c.

Reed, Robert G.: *See—*

Benson, Robert W.; Chapman, James Ronald; Reed, Robert G.; and Smith, Hoyt L., 3,663,006.

Benson, Robert W.; and Reed, Robert G., 3,684,273.

Reed, Robert G., to Cutters Machine Company, Inc. Speed reducing apparatus for a cloth spreading machine. 3,694,722, 9-26-72, Cl. 318-368.000.

Reed, Robert T., to Walton Products Inc. Electrical circuit control apparatus. 3,646,498, 2-29-72, Cl. 339-48.

Reed, Roger R., to Sylvania Electric Products, Inc. System for locating and communicating with mobile units. 3,662,267, 5-9-72, Cl. 325-53.000.

Reed Rolled Thread Die Co.: *See—*

Orlomoski, Roger W., 3,653,241.

Zook, Elmer S.; and Ronn, Paul W., 3,651,678.

Reed, Russell, Jr.: *See—*

Shaw, Graham C.; and Reed, Russell, Jr., 3,677,840.

Reed, Stanley E., Jr.; and Ruby, Donald C., to FMC Corporation. Injection pump. 3,672,794, 6-27-72, Cl. 417-382.000.

Reed, Stuart; and Schiffman, Louis, to Amchem Products, Inc. Chloride concentration control in immersion copper coating. 3,649,343, 3-14-72, Cl. 117-130.

Reed, Thomas F.: *See—*

Stephens, Howard L.; and Reed, Thomas F., 3,645,940.

Reed, Weldon N.: *See—*

Restaino, Alfred; and Reed, Weldon N., 3,635,857.

Reed, William A.: *See—*

Roblin, John M.; Cole, Frank J.; and Reed, William A., 3,672,327.

Roblin, John M.; Cole, Frank J.; and Reed, William A., 3,690,638.

Reed, William A.; and Cole, Frank J., to Republic Steel Corporation. Method for vaporizing molten metal. 3,640,762, 2-8-72, Cl. 117-107.1.

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Reede, Thomas Pieter, to U.S. Philips Corporation. Use of a plurality of scanning directions for character center line determination. 3,673,566, 6-27-72, Cl. 340-146.3ae.

Reeder, Charles H., to W & R Industries, Inc. Transition pipe joint. 3,656,783, 4-18-72, Cl. 285-239.

Reeder, Douglas L., Jr.: *See—*

Hibbard, William M.; and Reeder, Douglas L., Jr., 3,641,687.

Reeder, George H., Jr. Piano construction. 3,675,527, 7-11-72, Cl. 84-180.000.

Reeder, Ronald Holt: *See—*

Potter, Gene Barrack; and Reeder, Ronald Holt, 3,688,127.

Reeder, William R.; and Sadler, Fred S., to McGraw-Edison Company. Method of treating cellulosic material to improve the usefulness thereof as an insulator in electrical apparatus. 3,707,692, 12-26-72, Cl. 336-94.000.

Reeds, John W., Jr., to Minnesota Mining and Manufacturing Company. Separation color recorder system. 3,685,899, 8-22-72, Cl. 355-32.000.

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Wakefield, Gene F.; Reedy, Carl D., Jr.; and Bloom, John A., 3,637,320.

Reedy, Carl D., Jr., to Texas Instruments, Incorporated. Chemical vapor deposition coatings on titanium. 3,656,995, 4-18-72, Cl. 117-69.

Reedy, James D.: *See—*

Yang, Kang; Reedy, James D.; and Stanton, Jimmy H., 3,649,197.

- Yang, Kang, Reedy, James D.; Johnson, Morris A.; and Harwood, William H., 3,649,482.
- Reedy, Ora Lee: *See*—
Carr, Robert D.; Lenoir, Fred W.; and Reedy, Ora Lee, 3,688,998.
- Reef-Baker Corporation: *See*—
Pyle, Kenneth E., 3,682,194.
- Reefman, William E., to Bunker-Ramo Corporation, The. Beat frequency time standard. 3,636,469, 1-18-72, Cl. 331-41.
- Reefman, William E., to Bunker-Ramo Corporation, The. Tuning forks and oscillators embodying the same. 3,636,810, 1-25-72, Cl. 84-457.
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- Reeg, Cloyd P.: *See*—
Hass, Robert H.; and Reeg, Cloyd P., 3,699,036.
Hass, Robert H.; and Reeg, Cloyd P., 3,706,658.
- Reehil, Edward G.: *See*—
Gueldenpfennig, Klaus; Reehil, Edward G.; and Tryon, Lansing E., 3,705,386.
- Reejhsinghani, Nandlal S.: *See*—
Bourget, Robert L.; and Reejhsinghani, Nandlal S., 3,652,526.
- Reekstin, John Peter, Jr.: *See*—
Bobeck, Andrew Henry; Kowalchuk, Roman; and Reekstin, John Peter, Jr., 3,706,081.
- Reel Vortex, Inc.: *See*—
Ferguson, Hugo S., 3,638,405.
Ferguson, Hugo S., 3,659,385.
Ferguson, Hugo S., 3,673,773.
- Reen, Orville W., to Allegheny Ludlum Industries, Inc. Machining sintered powder metal. 3,689,964, 9-12-72, Cl. 29-420.500.
- Reenstray, John E.; and Malone, Martin. Heat sealing apparatus. 3,699,305, 10-17-72, Cl. 219-200.000.
- Reerink, Hans-Peter: *See*—
Buchholz, Hans-Dieter; and Reerink, Hans-Peter, 3,633,854.
Buchholz, Hans-Dieter; and Reerink, Hans-Peter, 3,690,598.
- Rees, Donald E.: *See*—
McCloskey, Chester M.; Rees, Donald E.; and Hoff, George, 3,649,546.
McCloskey, Chester M.; Rees, Donald E.; and Hoff, George, 3,649,548.
McCloskey, Chester M.; Rees, Donald E.; and Hoff, George L., 3,692,841.
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- Rees, Donald W. Abrasion wear warning device for vehicle brakes. 3,660,815, 5-2-72, Cl. 340-52.
- Rees, Frederick Henry, to International Standard Electric Corporation. Pulse code modulation switching system utilizing TASI. 3,660,605, 5-2-72, Cl. 179-15.0as.
- Rees, Herbert, to Husky Manufacturing and Tool Works Limited. Injection-molding machine with transverse feed. 3,659,997, 5-2-72, Cl. 425-247.
- Rees, Herbert, to Husky Manufacturing and Tool Works Limited. Scrap grinder for injection-molding machine. 3,672,803, 6-27-72, Cl. 425-197.
- Rees, Herbert, to Husky Manufacturing and Tool Works Limited. Injection-molding machine with alarm device. 3,700,375, 10-24-72, Cl. 425-422.000.
- Rees, Huw David: *See*—
Hilsum, Cyril; and Rees, Huw David, 3,667,003.
- Rees, James D., to Xerox Corporation. Optical recorder. 3,705,543, 12-12-72, Cl. 95-4.50r.
- Rees, John Michael: *See*—
Coaton, James Richard; and Rees, John Michael, 3,644,773.
- Rees, Peter Leon: *See*—
Renfrew, Robert Morrison; and Rees, Peter Leon, 3,704,973.
- Rees, Richard W.: *See*—
Bright, Royal E.; Rees, Richard W.; and Smith, Herchel, 3,661,992.
- Yardley, John P.; Bright, Royal E.; Rees, Richard W.; and Smith, Herchel, 3,663,552.
- Rees, Richard W.; and Russell, Peter B., to American Home Products Corporation. 6-(Fluoro and trifluoromethyl phenyl)-3,5-diamino-1,2,4-triazines and substituted 6-phenyl-3,5-diamino-1,2,4-triazines. 3,637,688, 1-25-72, Cl. 260-249.9.
- Rees, Robert M.: *See*—
Miehle, James A.; Pratt, David S.; and Rees, Robert M., 3,675,204.
- Rees, Spencer C.: *See*—
Plunkett, Larry E.; and Rees, Spencer C., 3,652,879.
- Rees, Spencer C., to Thor Power Tool Company. Portable power tool construction. 3,651,707, 3-28-72, Cl. 74-421.
- Rees, Thomas C.: *See*—
Cryer, John; Foster, Harold M.; and Rees, Thomas C., 3,658,906.
- Rees, Vernon C., to Owens-Corning Fiberglas Corporation. Memory system. 3,641,514, 2-8-72, Cl. 340-173.
- Rees, William F., Limited: *See*—
Rees, Donald Frank; Garnett, John Baron; and Richardson, Michael Alexander, 3,640,076.
- Reese, Albert L.; and Miller, Christopher K. Wheel refacer. 3,692,011, 9-19-72, Cl. 125-11.000.
- Reese, Anthony L., to Dresser Industries, Inc. Position indicating butterfly valve. 3,701,362, 10-31-72, Cl. 137-556.300.
- Reese, Cecil Everett, to Du Pont de Nemours, E. I., and Company. Composite yarn product. 3,681,910, 8-8-72, Cl. 57-140.0by.
- Reese, Dale C. Method and apparatus for stimulating the flow of oil wells. 3,674,093, 7-4-72, Cl. 166-299.000.
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- Reese, Edward E.: *See*—
Sammartino, Michael; and Reese, Edward E., 3,703,978.
- Reese, Frank L.; and Dakin, Hayes O., Jr., to Westinghouse Electric Corporation. Delayed-acting blast valve operator construction. 3,665,133, 5-23-72, Cl. 200-148.
- Reese, Frank P.; and Yancey, LeRoy D. Display device. 3,696,536, 10-10-72, Cl. 40-35.000.
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- Reese, James H., to Hamilton Watch Company. Watch transducer. 3,641,761, 2-15-72, Cl. 58-28.
- Reese, James R., to Cal-Val Co. Flow stabilizer for pilot-operated modulating valve system. 3,669,143, 6-13-72, Cl. 137-512.300.
- Reese, Murray C. Holder for refuse cans. 3,675,783, 7-11-72, Cl. 211-71.000.
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Good, Arthur L.; and Reese, Robert P., 3,694,006.
- Reese, Richard T.; and Weatherman, Nile Ray. Thief proof fuel system. 3,695,287, 10-3-72, Cl. 137-354.000.
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Good, Arthur L.; and Reese, Robert P., 3,694,006.
- Reese, Starling L. Burglar proof method and means. 3,665,737, 5-30-72, Cl. 70-118.
- Reese, Walter H.: *See*—
Koontz, Raymond A.; and Reese, Walter H., 3,698,409.
- Reese, William R.: *See*—
Passons, William Erby; and Reese, William R., 3,662,697.
- Reeve, Darrel Lon; and Mortensen, Stanley, to Georgia-Pacific Corporation. Roll coating apparatus for panel products. 3,693,585, 9-26-72, Cl. 118-104.000.
- Reeve, Keith Desmond; and Ramm, Eric John, to Australian Atomic Energy Commission. Fuel element for high temperature nuclear reactor. 3,704,202, 11-28-72, Cl. 176-68.000.
- Reeve, Leo C., to Portland Cement Association. Pump construction. 3,667,878, 6-6-72, Cl. 418-173.
- Reeve, Paul H., to Auto Research Corporation. Pump priming and flow control valve for pumping two different fluids. 3,671,148, 6-20-72, Cl. 417-295.000.
- Reeves, Alec Harley; Ramsay, Melvin Murray; Mounter, Anthony Edmund; and Laurence, Simon French, to International Standard Electric Corporation. Optical repeater with phase error correction. 3,705,307, 12-5-72, Cl. 250-199.000.
- Reeves, Harold C., to Portage Machine Company, mesne. Quick change tool holder. 3,679,220, 7-25-72, Cl. 279-1.00b.
- Reeves, John F.: *See*—
Lickliter, Robert Paul; and Reeves, John F., 3,638,387.
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Lickliter, Robert Paul; Abbott, Earl; and Reeves, John F., 3,675,957.
Lickliter, Robert Paul; and Reeves, John F., 3,685,230.
- Reeves, John F., to Litewate Transport Equipment Corporation. Apparatus for reinforced plastic molding. 3,704,970, 12-5-72, Cl. 425-128.000.
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- Reeves, John R.; and Hitchins, Gary O., to Westinghouse Electric Corporation. Battery charger. 3,688,177, 8-29-72, Cl. 320-24.000.
- Reeves, Keith Clarkson, to General Motors Corporation. Relating to energy absorbing shafts and method of making same. 3,698,259, 10-17-72, Cl. 74-492.000.
- Reeves, Richard A., to Sherwood Medical Industries Inc. Iontophoresis electrode. 3,677,268, 7-18-72, Cl. 128-172.100.
- Reeves, Ronald L.: *See*—
Ehrhardt, Gerry H.; Reeves, Ronald L.; and Siglin, David L., 3,653,944.
- Reeves, Rosser S., III: *See*—
Wer Bell, Mitchell L., III, 3,667,570.
- Reeves, Rosser S., III; in care of Tiderock Corporation, mesne: *See*—
Ingram, Gordon B., 3,651,736.
- Reeves, Wilson A.: *See*—
Beninate, John V.; Daigle, Donald J.; Drake, George L., Jr.; Reeves, Wilson A.; and Donaldson, Darrell J., 3,697,316.
- Ellzey, Samuel E., Jr.; Connick, William J., Jr.; Reeves, Wilson A.; and Drake, George L., Jr., 3,655,413.

- Ellzey, Samuel E., Jr.; Connick, William J., Jr.; Reeves, Wilson A.; and Drake, George L., Jr., 3,701,626.
- REFEKA Reklame-, Fest- und Karnevals-Artikelfabrik GmbH: *See*—
Pfeiffer, Peter-Michael, 3,646,695.
- Reflex Corporation of Canada, Limited: *See*—
Howell, George E., 3,632,695.
White, Jay E., Jr., 3,676,666.
- Refrigeration Engineering Corporation: *See*—
Martin, Walter H., 3,680,173.
Martin, Walter Harper, 3,669,239.
- Regal China Corporation: *See*—
Greenberg, Jerome S., 3,691,266.
- Regal Farms, Inc.: *See*—
Naarup, Wayne D.; and Turner, Martin E., 3,681,948.
- Regal, Jean C. A.: *See*—
Gorinas, Guy G.; and Regal, Jean C. A., 3,702,500.
- Regal Manufacturing Company: *See*—
Henry, Carl L., 3,680,801.
- Regan, Bernard M., to Baxter Laboratories, Inc. Benzoxalkyl substituted thiopseudouras. 3,649,669, 3-14-72, Cl. 260-477.
- Regan, Bernard M., to Baxter Laboratories, Inc. Method of inducing anesthesia with 2-bromo-1,1,2,3,3-pentafluoropropane. 3,659,023, 4-25-72, Cl. 424-350.
- Regan, Bernard M., to Baxter Laboratories, Inc. Method for inducing anesthesia. 3,671,645, 6-20-72, Cl. 424-351.000.
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Watkins, Bruce J., 3,664,376.
Watkins, Bruce J., 3,675,713.
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Regan, John J.; and Rothstein, Bernard B. (said Rothstein assor. to said), 3,656,190.
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Zwobada, Rene L.; and Regeffe, Andre Jean, 3,638,150.
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Minkner, Ruthard; and Pick, Werner, 3,633,608.
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Buchel, Karl-Heinz; Regel, Erich; and Plempel, Manfred, 3,660,577.
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Buchel, Karl Heinz; Regel, Erik; and Plempel, Manfred, 3,655,899.
Buchel, Karl Heinz; Regel, Erik; and Plempel, Manfred, 3,655,900.
Buchel, Karl Heinz; Regel, Erik; and Plempel, Manfred, 3,657,442.
Buchel, Karl Heinz; Regel, Erik; and Plempel, Manfred, 3,657,445.
Buchel, Karl Heinz; Regel, Erik; and Plempel, Manfred, 3,658,956.
Buchel, Karl Heinz; Regel, Erik; Grewe, Ferdinand; Scheinpflug, Hans; and Kaspers, Helmut, 3,665,076.
Buchel, Karl-Heinz; Regel, Erik; Grewe, Ferdinand; Scheinpflug, Hans; and Kaspers, Helmut, 3,665,077.
Buchel, Karl-Heinz; Regel, Erik; Grewe, Ferdinand; Scheinpflug, Hans; and Kaspers, Helmut, 3,665,078.
Buchel, Karl-Heinz; Regel, Erik; Grewe, Ferdinand; Scheinpflug, Hans; and Kaspers, Helmut, 3,665,079.
Buchel, Karl-Heinz; Regel, Erik; Grewe, Ferdinand; Scheinpflug, Hans; and Kaspers, Helmut, 3,666,862.
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Botts, Marion F.; and Regel, Erik K., 3,641,222.
Buchel, Karl-Heinz; Regel, Erik K.; and Plempel, Manfred, 3,705,172.
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Hoffman, Stephen J.; and Schonegg, Louis E., 3,665,318.
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Barteleit, Ulrich; Regenscheit, Walter; Schroder, Helmut; and Wolf, Erich, 3,643,585.
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O'Connor, Lawrence T.; Brierley, James A.; and Bhappu, Roshan B., 3,679,397.
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Kirkpatrick, Milton E.; Reger, Jo L.; and Staudhammer, Karl P., 3,706,614.
- Regh, Joseph: *See*—
Doo, Ven Y.; Regh, Joseph; and Seto, David K., 3,701,659.
- Regie Nationale des Usines Renault: *See*—
Baillieux, Gilles, 3,704,029.
Ballandras, Pierre, 3,668,410.
Barriere, Alain, 3,680,821.
Bonnaud, Michel, 3,666,308.
Bouthors, Pierre; and Quemerais, Philippe, 3,690,192.
Broyer, Robert, 3,672,718.
Chatourel, Pierre; and Lefebvre, Jean, 3,698,471.
Colinet, Andre; Mercier, Jacques; and Pernoud, Claude, 3,640,457.
Colinet, Andre; and Mercier, Jacques, 3,693,532.
Dumontier, Jean-Michel, 3,692,345.
Dutot, Christian, 3,649,090.
Esselin, Raymond; and Poirier, Jean-Claude, 3,652,441.
Eydieux, Marius, 3,673,655.
Falay, Bernard; and Froumajou, Armand, 3,670,586.
Ferrand, Andre; and Bonnefont, Michel, 3,688,078.
Fleury, Jean; and Pinot, Jean, 3,673,072.
Fleury, Jean, 3,677,928.
Fournier, Roger, 3,704,213.
Froumajou, Armand, 3,642,296.
Froumajou, Armand; and Falay, Bernard, 3,673,882.
Froumajou, Armand P., 3,672,698.
Galas, Jacques, 3,645,145.
Goetz, Bernard, 3,654,692.
Guettier, Michel, 3,669,510.
Guettier, Michel, 3,695,735.
Le Mire, Noel, 3,669,397.
Leger, Andre, 3,668,411.
Leger, Andre, 3,680,656.
Lombard, Claude; and Perrin, Jean-Louis, 3,691,873.
Maistrelli, Roger, 3,642,388.
Mangin, Jean-Pierre, 3,673,995.
Maurice, Jean; and Piret, Jean, 3,636,795.
Mauron, Gerard, 3,649,786.
Mercier, Jacques, 3,648,590.
Pernoud, Claude, 3,703,141.
Pilot, Maurice; and Kilian, Louis, 3,703,847.
Piret, Jean, 3,703,107.
Pruvot, Francois C., 3,661,055.
Pruvot, Francois C., 3,702,576.
Remaud, Jacques, 3,704,895.
Remaud, Jacques C.; and Bouthors, Pierre, 3,703,320.
Richard, Gilbert; and Moronval, Gerard, 3,675,033.
Rolland, Marcel, 3,688,598.
Rouvre, Philippe; and Peroy, Francois, 3,657,626.
Rouvre, Philippe A. R.; Pineau, Jean E.; and Peroy, Francois, 3,633,085.
Slehofer, Ladislav, 3,704,379.
Sutren, Claude, 3,658,378.
Thibaut, Christian; and Ballini, Andre, 3,686,964.
Tiberghien, Pierre, 3,667,706.
Tixier, Michel, 3,638,748.
Tixier, Michel, 3,673,837.
Tixier, Michel, 3,688,558.
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Hajduk, Frank R., 3,675,293.
Hajduk, Frank R., 3,675,955.

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Rhoades, John W.; Register, James W., Jr.; and Millar, John D., 3,634,098.
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Moulin, Jean; and Regneault, Marcel, 3,667,438.
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Thode, Herbert William, 3,683,198.
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Guggi, Walter B., 3,638,098.
- Hoeffleur, Albert, 3,682,254.
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Ackermann, Jacob; Croce, Roberto; and Reguzzoni, Riccardo, 3,657,331.
- Ackermann, Jacob; Croce, Roberto; and Reguzzoni, Riccardo, 3,670,016.
- Reh, Lothar: *See—*
Maelzer, Carl-August; and Reh, Lothar, 3,687,656.
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Soethje, Guenter, 3,706,519.
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Maul, Rudolf; and Rehberg, Rolf, 3,634,013.
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Erdmann-Jesnitzer, Friedrich; and Rehfeldt, Dietrich, 3,632,960.
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- Jesnitzer, Friedrich Erdmann; and Rehfeldt, Dietrich, 3,679,865.
- Rehfuss, John W.: *See—*
Mansour, Said K.; and Rehfuss, John W., 3,654,201.
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Bock, Robert V.; Rehhauser, Frederick; Earnest, Elmer Dean; Gerbstadt, Frederick H.; and White, James A., 3,654,621.
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Fujii, Wesley M.; and Rehklau, George D., 3,634,172.
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Donofrio, Robert L.; and Rehkopf, Charles H., 3,697,301.
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- Rehkopf, Charles M.: *See—*
Ng, David M.; and Rehkopf, Charles M., 3,667,355.
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Jaffe, Gerald Myer; and Rehl, William Richard, 3,660,463.
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Murphy, George R.; Rehn, Glenn E.; and Plum, George L., 3,637,090.
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Nussbaum, Henry A.; Rehr, Henry W.; and Tellier, Clair W., Jr., 3,643,939.
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Graybill, Robert W.; Reiber, Stanley C.; Nace, Donald W.; and White, Ellis S., 3,667,747.
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Martinez, Eugene, 3,705,105.
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Engle, James P.; Oakes, Billy D.; and Reich, Cecil F., 3,634,270.
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Zwahlen, Guenther; Reich, Ernst; and Riegler, Albert, 3,642,686.
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Becker, Gustav; Griepentrog, Heinz; Klebert, Wolfgang; and Reich, Friedrich, 3,655,437.
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Jungermann, Eric; and Reich, Henry E., 3,649,718.
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- Reich, John P.: *See—*
Nepereny, Harold A.; and Reich, John P., 3,699,750.
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Gebhardt, Fritz; Kaltenmark, Otto; Reich, Kurt; and Keusch, Siegfried, 3,682,751.
- Reich, Kurt: *See—*
Gebhardt, Fritz; Kaltenmark, Otto; Reich, Kurt; and Keusch, Siegfried, 3,682,751.
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Shepherd, Thomas H.; and Reich, Murray H., 3,642,678.
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Bauer, Erich; Reichard, Franz; and Schwarz, Ferdinand, 3,702,308.
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Bitzer, Richard R.; and Reichard, William H., 3,694,413.
- Reichardt, Theodore A. Photographic print and film processing machine. 3,698,307, 10-17-72, Cl. 95-93.000.
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Dalibor, Horst; and Katsibas, Themistoklis, 3,666,833.
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Solka, James L.; Reichelderfer, Charles A.; Dieckmann, John J.; and Castello, Anthony M., 3,662,738.
- Reichelsdorfer, Peter W.: *See—*
Yedidia, Joseph M.; Reichelsdorfer, Peter W.; Dorrycott, Joseph W.; and Russell, James G., 3,649,451.

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Zollner, Dieter; and Reichelt, Bernhard, 3,644,654.
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Johne, Hans; Schumann, Gunter; and Reichenberger, Kurt, 3,696,743.
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Guark, Richard J.; and Reicher, Milton D., 3,641,437.
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Durrwachter, Eugen; and Reichert, Otto, 3,691,026.
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Ault, Cyrus Frank; Reed, Ray Allen; and Reichert, William George, Jr., 3,704,383.
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Bluestein, Allen C.; and Grossman, Richard F., 3,661,877.
- Buck, Donald A., 3,662,025.
- Chang, Yun Ger, 3,647,822.
- Chang, Yun Ger; and Bailey, Philip S., 3,654,315.
- Chang, Yun Ger, 3,679,708.
- Davis, Bernard J., 3,640,981.
- Davis, Bernard J., 3,648,847.
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- Davis, Bernard J.; and Ranson, Wesley J., 3,702,842.
- Forster, Wolfgang C., 3,679,710.
- Odum, James J., Jr.; Shumaker, Thomas P.; and Griffin, Donald B., 3,634,230.
- Payne, Jimmie Sturgis, Jr., 3,649,711.
- Shelton, Frederic J., 3,637,861.
- Shelton, Frederic J., 3,655,779.
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Behrens, Burkhard; and Delius, Hermann, 3,699,022.
- Broecker, Bernhard, 3,663,484.
- Broecker, Bernhard, 3,663,485.
- Broecker, Bernhard, 3,663,487.
- Broecker, Bernhard, 3,670,047.
- Broecker, Bernhard, 3,705,206.
- Guldenpfennig, Rolf, 3,650,996.
- Guldenpfennig, Rolf, 3,661,818.
- Guldenpfennig, Rolf, 3,674,731.
- Kolbel, Herbert; Manecke, Georg; and El-Ghatta, Hussain Kashif, 3,692,729.
- Oehmichen, Klaus, 3,692,726.
- Stieger, Gerhard; and Flasch, Josef, 3,705,862.
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Preisinger, Franz; and Reichl, Ernst, 3,635,151.
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Knauff, Gunter; Koederitz, Fritz; Painke, Helmut; Reichl, Leopold; Lampe, Hans H.; Vachenaue, Robert; Vogt, Edwin; and Weber, Hermann, 3,659,273.
- Reichle, Alfred: *See—*
Kubitzek, Harry; Essig, Karl-August; Von Falkai, Bela; Reichle, Alfred; and Bodesheim, Ferdinand, 3,664,914.
- Reichle, Dorothy K.: *See—*
McGrath, William W.; McLeod, Robert B.; and Reichle, Philip L., 3,653,041.
- Reichle, Philip L.: *See—*
McGrath, William W.; McLeod, Robert B.; and Reichle, Philip L., 3,653,041.
- Reichle, Walter T.: *See—*
Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and Mc-Grath, James E., 3,696,131.
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Gerhard, Helmut; and Reichmann, Hans-Helmut, 3,661,293.
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Reick, Franklin G., 3,638,644.
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Tiger, Emil; Corman, Erskin G.; and Reick, Kenneth R., 3,637,304.
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Halff, Albert H.; and Reid, Allen F., 3,675,829.
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Morse, William F.; and Reid, Edward A., Jr., 3,633,562.
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Kupper, Wilhelm, 3,637,148.
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Piekenbrink, Rolf; and Reinhardt, Albert, 3,693,702.
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Haas, Guenther; and Reinhardt, Dieter, 3,671,873.
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Smith, Jay Charles; and Reinhardt, James R., 3,640,682.
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Sabatka, Winston E.; Bloomquist, Wilburn M.; and Reinke, Raymond W., 3,643,670.
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Jelinek, Jerry G.; and Reinsch, Edward, 3,694,894.
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Bennigsen, Gerd Von, 3,653,674.
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Becker, Werner; Farwer, Alfwald; Frank, Georg; Reis, Bernhard; Rohf, Josef; and Auer, Rupert, 3,674,978.

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Baader, Herbert; Sennewald, Kurt; Reis, Helmut; and Viertel, Gunther, 3,649,700.
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Honig, Hans Ludwig; Suling, Carlhans; Dieterich, Dieter; and Reischl, Artur, 3,684,758.
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Duggan, Richard E.; Sandberg, Bernard L.; Reisner, Manfred; and Gascoigne, Allan J., 3,644,921.
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Giebel, Buddy E.; and Reiter, Marilyn F., 3,645,437.
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Henning, Herbert; Alt, Werner; and Reiter, Paul, 3,643,931.
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Mayer Rolf; and Reiting, Johann, 3,674,977.
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Reifenhauser, Hans; and Reitmeyer, Paul, 3,681,176.
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Hameister, Harold L.; and Reitter, Erwin, Jr., 3,681,181.
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Reitz, Reinhard, 3,701,570.
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Reitzel, John S.; and Reitzel, Gail L., 3,698,124.
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Wernicke, Hans Joachim; and Reitzenstein, Hermann, 3,666,418.
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Gomersall, Earl Raymond; Meyer, Roger Paul; and Rejmaniak, Susan English, 3,703,725.
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Havlas, Jiri; Kostecky, Premysl; Holy, Zdenek; Rydlo, Jeromir; and Rejnart, Vlastimil, 3,643,843.
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Leezer, James R.; Reid, Francis R.; Turpin, Charles H.; and Rejsa, Jack J., 3,669,346.
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Carville, James G.; and Rekesius, John F., 3,693,536.
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Pitroda, Satyan G.; and Rekiere, Bernard J., 3,699,264.
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McClain, Douglas; and Osborn, Lemuel E., 3,690,723.
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Sleater, Roland G.; and Reed, Charles G., 3,634,769.
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Sedlacek, William S., 3,636,500.
- Reliable Machine Works, Inc.: *See—*
Kaufman, Aaron M., 3,683,468.
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Dusek, Ervin F., 3,699,874.
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Sandusky, Charles F.; and Susor, William C., 3,662,846.
- Seed, Aniese Edward, 3,631,935.
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Abnett, Albert C.; and Alexander, Jack S., 3,636,338.
Flaczynski, Lawrence F., 3,682,554.
Gilbert, Edward O., 3,636,464.
Lambert, George M., 3,657,937.
Loshbough, Richard C.; and Robaszkiewicz, Gerald D., 3,682,275.
Loshbough, Richard C., 3,701,106.
Schieman, Robert G., 3,662,247.
Schieman, Robert G.; and Penkowski, Lee J., 3,683,264.
Steinke, Fred J., 3,677,583.
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Hudson, Earl A., 3,677,144.
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Harsanyi, Kalman; Takacs, Kalman; Relle, Zsuzsa, nee Somfai; Milak, Eva, nee Krompecher; Tardos, Laszlo; Korbonits, Dezso; Kiss, Pal; and Gonczy, Csaba, 3,673,188.
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Wieden, Horst; Rellelmann, Wolfgang; Dieterich, Dieter; and Nischik, Gunther, 3,634,360.
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Hearn, Charles L.; and Relf, James L., 3,687,198.
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Harvey, Merlin P.; and Relyea, Douglas L., 3,658,768.
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Wilkerson, Forrest R., Jr.; and McClancy, George M., 3,652,296.
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Briskin, Theodore S.; and Remanick, Allen H., 3,643,667.
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Hermann, Allen M.; Gutmann, Felix; and Rembaum, Alan, 3,660,164.
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Kratt, Henry J., 3,641,608.
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Dillon, Joseph F., Jr.; Gyorgy, Ernst M.; and Remeika, Joseph P., 3,637,289.
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Kopacki, Adam F.; and Remes, Nathaniel L., 3,645,963.
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Alday, James M., 3,653,140.
Alday, James M., 3,707,110.
Anderson, Dennis J., 3,645,154.
Black, Richard L., 3,638,258.
Curran, Roger J., 3,656,434.
Hameister, Harold L.; and Baszczuk, Andrew R., 3,674,451.
Hameister, Harold L.; and Reitter, Erwin, Jr., 3,681,181.
Hartman, Robert B., 3,662,041.
Hartman, Robert B., 3,682,552.
Misevich, Kenneth W., 3,631,876.
Misevich, Kenneth W., 3,631,892.
Misevich, Kenneth W., 3,675,926.
Olson, Theodore A.; and Scanlon, John J., 3,679,781.
Penny, Peter A., 3,643,620.
Platt, William G., 3,631,623.
Platt, William G., 3,685,392.
Scanlon, John J., 3,696,749.
Sloan, Walter John, 3,661,734.
Tucker, Henry G.; and Donoski, Paul J., 3,695,247.
Walker, Merle H.; and Alday, James M., 3,631,622.
- Remley, Kenneth Herald: *See—*
Hermann, David Trimble; and Remley, Kenneth Herald, 3,640,924.
- Remmer, Norton S. Wood grinding. 3,693,891, 9-26-72, Cl. 241-15.000.
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Rathbone, Ivanhoe J., 3,672,736.
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Vincent, Michel; Remond, Georges; and Poignant, Jean-Claude, 3,697,588.
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Matysek, John J., 3,644,884.
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- Rems-Werk Christian Foll & Sohne: *See—*
Fohl, Artur, 3,648,313.
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Ellison, Victor D.; and Remus, Casimer F., 3,633,200.
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Dunbar, Robert A., 3,699,311.
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- Remy, David C.: *See—*
Engelhardt, Edward L.; and Remy, David C., 3,697,544.
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- Remy, Maurice A., to Office de Radio Diffusion-Television. Operational video circuit modules. 3,681,619, 8-1-72, Cl. 307-237.000.
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Thomas, Hubert L.; and Mueller, Alexander, 3,632,795.
Young, James, 3,652,486.
- Renard, Guy: *See—*
Barbier, Jean-France Leon Paul; and Renard, Guy, 3,679,424.
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Delacour, Pierre; Langlade, Pierre; and Renard, Michel, 3,638,403.
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Brownawell, Darrell W.; and Renard, Remi H., 3,639,229.
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Zawels, Jakob; and Renaud, Eric D., 3,641,685.
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Diddas, Donald Guy; and Renaud, Norman Ernest, 3,686,322.
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Renauld, Fred S.; and Renauld, Noemie A., 3,640,037.
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Deschamps, Andre; and Renaud, Philippe, 3,649,190.
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Florent, Jean; Lunel, Jean; and Renaud, Jacques, 3,703,439.
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Ratliff, Earl Truman; and Renaud, Paul William, 3,689,722.
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Cheney, Richard F.; and Rench, Nicholas W., 3,684,912.
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Hulsmann, Hans Leo; Renckhoff, Gustav; and Pastura, Albino, 3,696,141.
Junghanel, Rudolph; Renckhoff, Gustav; and Thewalt, Klaus, 3,639,601.
Junghanel, Rudolph; Renckhoff, Gustav; and Thewalt, Klaus, 3,681,496.
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Reynoir, Diane Greenslit; and Delesdernier, Penelope Brodtmann, 3,678,945.
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Kell, Robert Christopher; Rendle, David Forbes; and Riches, Eric Edward, 3,696,314.
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Tirpak, Michael R.; and Rendleman, Harold A., 3,681,305.
- Rendon, Daniel: *See—*
Deverse, Frank T.; Kurtz, John A.; Rendon, Daniel; Trahn, Kenneth A.; and Tuttle, James W., 3,699,917.
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Guthrie, James L.; and Rendulic, Francis J., 3,694,241.
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Kafka, Robert Stickney, 3,656,514.
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Hall, Luther A. R.; Gurney, John A.; and Renfro, Harris B., 3,697,585.
Hall, Luther A. R.; Gurney, John A.; and Renfro, Harris B., 3,697,592.
Hall, Luther A. R.; Gurney, John A.; and Renfro, Harris B., 3,697,604.
Hall, Luther A. R.; Gurney, John A.; and Renfro, Harris B., 3,705,918.
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Renfro, Charles J., 3,632,152.
Renfro, Raymond L., 3,659,890.
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Bristol, Thomas R.; Lakin, Harold; and Renga, Fred L., 3,674,142.
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Kitaguchi, Tome; and Renger, Herman L., 3,644,924.
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Austin, Richard C.; Traub, Robert A.; and Rengert, Joseph S., 3,658,271.
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Austin, Richard C.; Traub, Robert A.; and Rengert, Joseph S., 3,658,271.
- Reni, Cesare: *See—*
Gualdi, Giorgio; Lugo, Luigi; and Reni, Cesare, 3,686,293.
Lugo, Luigi; Gualdi, Giorgio; and Reni, Cesare, 3,703,547.
Paleologo, Teo; Reni, Cesare; and Lugo, Luigi, 3,644,472.
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Vassilevsky, Anatole N.; and Renke, Adolf, 3,667,978.
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Innes, Robert A.; and Rennard, Raymond J., Jr., 3,644,549.

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- Rennells, Kenneth C., to Ott Chemical Company, The. Preparation of alkyl isocyanates. 3,644,461, 2-22-72, Cl. 260-453.
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- Renner, Glen R.: See—
Alexander, Arthur W.; and Renner, Glen R., 3,659,188.
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Barenyi, Bela; Sacco, Bruno; and Renner, Hermann, 3,663,034.
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Petersen, Harro; Renner, Klaus-Christian; and Diem, Hans, 3,639,455.
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Atkins, Anthony G.; Estes, Bay E., III; and Renner, Richard L., 3,688,571.
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- Renner, Ulrich: See—
Jaeggi, Knut A.; and Renner, Ulrich, 3,634,421.
- Kuhnis, Hans Herbert; and Renner, Ulrich, 3,681,501.
- Kuhnis, Hans Herbert; and Renner, Ulrich, 3,684,803.
- Rennhack, Rolf: See—
Bechthold, Horst; Dittmar, Hans; Heinz, Ernst; and Rennhack, Rolf, 3,633,887.
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- Rennick, Lyle V., to Northrop Corporation. Accurate square-law detector circuit. 3,681,700, 8-1-72, Cl. 328-144.000.
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Hittel, Erwin Ross; and Rennie, Foster Wilson, 3,652,466.
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Oldfield, Benjamin D., 3,651,908.
- Renold, Walter: See—
Fredkin, Edward; and Renold, Walter, 3,693,042.
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Johnson, Richard A.; Jensen, Charles E.; and Renskers, John O., 3,666,090.
- Renskers, John O., to Coilcraft, Inc. Internally polygonal coil form. 3,671,905, 6-20-72, Cl. 336-136.000.
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Schromm, Kurt; Mentrup, Anton; Zeile, Karl; Renth, Ernst-Otto; Engelhardt, Albrecht; and Traunecker, Werner, 3,673,187.
- Renton Engineering Company: See—
Orr, Alexander L., 3,695,760.
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Lucas, Joseph G.; Freeman, William R., Jr.; and Rentz, Warren A., 3,656,919.
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Bedall, Hans; Rentzsch, Max; and Buckey, Dieter, 3,683,814.
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Von Wartburg, Albert; Kuhn, Max; and Renz, Jany, 3,634,459.
- Renz, John F.: See—
Douaihy, Sarkis; Renz, John F.; Blatchley, William R.; and Stahl, Terry W., 3,636,445.
- Holmes, Walter V.; and Renz, John F., 3,701,909.
- Reader, Charles T.; and Renz, John F., 3,704,447.
- Renz, Werner: See—
Schuierer, Erich; Renz, Werner; and Sommer, Hans, 3,679,634.
- Renza Bionica Kogyo Kabushiki Kaisha: See—
Yamashita, Keizo; Yokozato, Junichi; and Yamamoto, Hideaki, 3,688,675.
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Della Bella, Davide; Portelli, Mario; and Renzi, Giorgio, 3,691,229.
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Horvath, Aurel; Repasi, Gellert; Szabo, Elek; and Vorsatz, Bruno, 3,661,559.
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Lace, Melvin A.; and Repay, Laszlo N., 3,647,986.
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- Repcio Research Proprietary Limited: See—
Harant, Gerhart Wilhelm, 3,636,773.
- Repella, James A.: See—
Day, Frank A.; and Repella, James A., 3,692,318.
- Repinski, James A.: See—
Tchejeyan, Sarkis K.; and Repinski, James A., 3,642,343.
- Repiquet, Gerard: See—
Buisson, Michel; Repiquet, Gerard; and Granger, Camille, 3,637,537.
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Larson, Louis P.; Repking, Edward F.; and Wagner, Gary L., 3,691,964.
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- Replica Associates, Inc.: See—
Kranz, Hugo E.; and Kranz, Kenneth R., 3,658,014.
- Reppert, Allen B.: See—
Brown, Carl W.; Reppert, Allen B.; and Dobbins, Billy D., 3,677,500.
- Republic Corporation: See—
Johnson, Jay; and Gardner, Charles R., 3,650,434.
- Johnston, Mack S., 3,632,023.
- Johnston, Mack S., 3,637,117.
- Smith, Vern; Fallon, Merton R.; and Johnston, Mack S., 3,698,417.
- Stolshek, John D., 3,667,328.
- Republic Electronics Industries Corporation: See—
Biagi, Alvaro D.; and D'Amato, Sirio S., 3,701,011.
- Republic Industries, Inc.: See—

- Martin, Paul W., 3,696,462.
- Slaybaugh, Loren E., 3,670,455.
- Republic Molding Corporation: See—
Manning, James P., 3,687,092.
- Republic Mower Company (Proprietary) Limited: See—
Smythe, Eric Patrick Greenwood, 3,676,893.
- Republic National Bank of Dallas Irving Trust Company and Union Bank: See—
Coats, John C.; and Wilson, George W., III, 3,674,984.
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Paquette, Raymond E., 3,633,061.
- Republic Packaging Corporation: See—
Schmid, Donald E., 3,683,823.
- Republic Steel Corporation: See—
Cappel, Fred, 3,669,618.
- Cole, Frank J., 3,690,933.
- Hammer, Herman J.; Heald, Sherman T.; and Royce Frank A., 3,689,725.
- Hultgren, Frank A., 3,666,569.
- Judd, Tyler W., 3,688,186.
- Leiter, Earl P., 3,637,246.
- Main, George, 3,640,543.
- Main, George; and Jahnke, Robert E., 3,690,288.
- Meyfarth, Herbert J.; and Crosby, John J., 3,640,112.
- North, Donald F., Jr.; Thomas, Jerry D.; and Worth, Gerald W., 3,671,224.
- Perry, Thomas E., 3,632,096.
- Perry, Thomas E., 3,704,013.
- Reed, William A.; and Cole, Frank J., 3,640,762.
- Reed, William A.; Kinzer, William K.; Swanson, John J.; and Kusner, Robert E., 3,655,837.
- Reim, Thomas E.; Pollack, Jerry J.; and Kemmerling, Robert A., 3,678,268.
- Ries, Gerald D.; and Poole, Sidney W., 3,640,690.
- Roblin, John M.; Cole, Frank J.; and Reed, William A., 3,672,327.
- Roblin, John M.; Cole, Frank J.; and Reed, William A., 3,690,638.
- Savas, John, 3,645,721.
- Schneider, Stephen G.; Hultgren, Frank A.; and Barclay, William F., 3,650,848.
- Schroeder, James W.; Naso, Anthony C.; and Eschenauer, Paul R., 3,649,708.
- Shepard, George A., 3,642,541.
- Shepard, George A.; and Mould, Richard J., 3,642,586.
- Tzavaras, Alexander A., 3,693,697.
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- Rerecich, Francis: See—
Petry, Henry Alfred; Rerecich, Francis; and Spangenberg, Gerhard, 3,648,496.
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Verreyne, Abraham Jacob; Job, Leonard Austin; Rerolle, Paul; and Richter, Johan C. F. C., 3,660,225.
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Beyerle, Rudi; Stachel, Adolf; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckard, 3,652,557.
- Beyerle, Rudi; Nitz, Rolf-Eberhard; Resag, Klaus; Schraven, Eckard; and Stachel, Adolf, 3,706,739.
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Hendrickson, Philip J.; and Resch, Richard J., 3,704,850.
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Garshelis, Ivan J., 3,685,643.
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Heasman, David Michael; and Little, Andrew Wallace, 3,707,123.
- Research Association of British Paint, Colour & Varnish Manufacturers, The: See—
Saunders, John Allen, 3,696,054.
- Research Corporation: See—
Aue, Walter A.; and Hastings, Corazon R., 3,666,530.
- Beale, William T., 3,645,649.
- Campbell, Thomas Colin, 3,682,645.
- Cassidy, Harold G.; Wegner, Gerhard; and Nakabayashi, Nobuo, 3,707,488.
- Cates, Lindley A., 3,660,413.
- DeMaine, Paul A. D.; and Springer, Gordon K., 3,656,178.
- Dicke, Robert H., 3,700,895.
- Dolansky, Ladislav; and Phillips, Nathan D., 3,676,595.
- Farrell, Roy Keith, 3,633,584.
- Goodman, Hubert Coleman, Jr.; and Hamann, Donald D., 3,653,509.
- Gordon, Michael S.; and Messmore, Francis B., 3,662,076.
- Hamann, Donald D., 3,680,694.
- Higgins, Jerry G., 3,644,285.
- Hirschberg, Joseph G., 3,644,014.
- Kirkpatrick, George M., 3,685,053.
- Larson, Alworth D.; Braymer, Hugh D.; and Broussard, Evest A., III, 3,692,631.
- Lehneis, Hans R.; and Pounders, Jack D., 3,680,549.
- Morgan, Peter E. D., 3,676,079.
- Padalino, Joseph J.; and Tuszyński, Alfons A., 3,668,560.
- Parshad, Ram, 3,665,106.
- Persson, Sverker P. E., 3,635,005.
- Pytlewski, Louis L., 3,676,186.
- Roth, Wilfred, 3,705,576.
- Schwarz, Helmut J., 3,665,245.
- Vanderklaauw, Peter M., 3,692,446.
- Webb, Byron K.; and Hood, Clarence E., 3,635,004.
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Healy, Kent A.; and Long, Richard P., 3,654,765.
- Kaye, Howard, 3,664,991.
- Lawrence, Willis G.; and Coffin, Leon B., 3,641,229.
- Marvel, Carl S.; Bracke, William; and Dutt, Prabir K., 3,635,896.
- Research Council of Alberta: See—
Kruyer, Jan, 3,633,976.
- Research Development Co.: See—
Victor, Irving, 3,664,806.
- Research Engineering & Manufacturing, Inc.: See—
Muenchinger, Herman G., 3,681,963.
- Research Engineering Company: See—
Gulick, Ronald A.; and Wicke, Charles H., 3,640,140.
- Gulick, Ronald A.; and McEver, Robert M., Jr., 3,685,621.
- Prikryl, Walter F.; and Gulick, Ronald A., 3,677,108.
- Sheesley, John M.; and Gulick, Ronald A., 3,704,986.
- Wicke, Charles H.; and Gulick, Ronald A., 3,684,844.
- Research Equipment Company: See—
Patterson, Carol M.; and Lero, Thomas E., 3,651,786.
- Research Foundation of the Washington Hospital Center: See—
Viktora, Josef Karel; and Baukal, Albert Jozel, 3,675,488.
- Research Frontiers, Inc.: See—
Forlini, Matthew, 3,655,267.
- Research, Incorporated: See—
Anderson, James R., 3,672,421.
- Brown, Buck C.; and Porterfield, Charles D., 3,693,100.
- Research Institute and Blood Bank: See—
Hill, Joseph M.; and Speer, Robert J., 3,637,462.
- Research Institute for Iron, Steel and other Metals of the Tohoku University: See—
Tanaka, Eiichiro; Onodera, Yutaka; Fukuda, Takeji; Yamashita, Tsutomu; and Kuma, Shoji, 3,652,967.
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- Research Institute for Medicine and Chemistry, Inc.: See—
Hesse, Robert H., 3,639,585.
- Research Institute for Medicine and Company, Inc.: See—
Barton, Derek Harold Richard, 3,705,893.
- Research Laboratories of Australia Pty. Limited: See—
Wright, Robert J., 3,666,524.
- Research Systems Corporation, mesne: See—
Snook, Richard K., 3,638,209.
- Research Technology Incorporated: See—
Short, Ray L., Jr.; Bowen, Howard; and Henderson, David L., 3,693,857.
- Research Triangle Institute: See—
Orcutt, John C.; and Mixon, Forest O., 3,671,426.
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Brown, Robert F., 3,635,000.
- Leonard, Gerald D., 3,673,768.
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- Reserv-A-Roll Co.: See—
Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; and Cantella, Richard C. (said Cantella assor. to), 3,639,944.
- Mott, Ralph B., Sr.; Mott, Ralph B., Jr.; and Cantella, Richard C., 3,650,555.
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- Resh, Roy E.: See—
Bak, Aloysius; and Resh, Roy E., 3,688,188.
- Resilient Grip Limited: See—
Varga, Otto Herman; and Taylor, Leonard, 3,653,591.

- Resines et Dispersions "Redis": See—
Besnard, Jean-Claude; and Pasteur, Lylian M. L., 3,692,736.
- Resinoid Engineering Corporation: See—
Mann, Robert L., 3,640,068.
- Resistoflex Corporation: See—
Press, Irving D.; and Heigis, Henry E., 3,633,945.
Press, Irving D., 3,641,798.
Press, Irving D., 3,683,954.
- Reske, Albert E.: See—
Johnson, Orlo J.; and Reske, Albert E., 3,631,939.
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Harris, Fred T.; and Resler, Edwin L., Jr., 3,672,387.
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- Resnick, Harry: See—
Rosenweig, Ronald E.; and Resnick, Joseph, 3,648,269.
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Rosenweig, Ronald E.; and Resnick, Joseph, 3,648,269.
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Scott, Harold W.; and Smith, Avery B., 3,653,185.
Shockcor, Joe H., 3,692,661.
Smith, Avery B., 3,681,027.
Smith, Avery B.; Hennig, Ralph R.; Kurtz, Abraham J.; and Pantchenko, Gregory, 3,704,098.
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Madsen, Andrew, 3,663,814.
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Beall, Glenn L., 3,652,015.
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Ott, Richard J., 3,690,517.
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Schmidt, Albert F., 3,648,971.
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- Restaurant Products, Inc.: See—
Morris, Wolford A., 3,648,595.
- Restelli, Attilio, to Starck, Hermann C., Berlin. Process for producing high-purity niobium and tantalum. 3,647,420, 3-7-72, Cl. 75-84.
- Restivo, Francesco: See—
Serracchioli, Francesco; and Restivo, Francesco, 3,678,179.
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- Restyanszki, Erno. Portable bidet. 3,654,636, 4-11-72, Cl. 4-7.
- Resz, Raoul: See—
Schnalke, Karl-Erwin; Suling, Carlhans; Logemann, Heino; and Resz, Raoul, 3,639,514.
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- Retch, Ernst: See—
Zwahlen, Guenther; Retch, Ernst; and Schoohf, Karl Ewald, 3,705,816.
- Retteff, Arthur L.: See—
Brooks, David; and Retteff, Arthur L., 3,662,416.
- Retelsen, Martin H.: See—
Rosenkranz, Otto; and Jensen, Cornelius, 3,637,025.
- Retention Communication Systems, Inc.: See—
Catalano, Paul; and Bickel, John, 3,669,374.
Miles, John R., 3,672,747.
- Reth, Johannes A.; and Fetteweis, Winifried H., to Demag Elektrometallurgie GmbH. Electric reduction furnace. 3,679,806, 7-25-72, Cl. 13-9.000.
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Nellis, Stewart; Kopf, Joseph Ellis; and Reti, Adrian R., 3,680,037.
- Retrum, Fergus, to Mini Pro Sports, Inc. Football catapult. 3,662,728, 5-16-72, Cl. 124-1.
- Rettemeier, Wulf: See—
Hohn, Gerhard; Lingnau, Josef; and Rettemeier, Wulf, 3,679,131.
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- Rettore, Roberto: See—
Gatta, Giorgio; and Rettore, Roberto, 3,635,929.
- Retzer, Theodore C.; and Kearney, Joseph P., to Westinghouse Electric Corporation. Current-rated short-arc lamp for light projection apparatus. 3,706,000, 12-12-72, Cl. 313-214.000.
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Hacklander, Egon H.; Hirshfeld, Julian J.; and Reuben, Bertie J., 3,706,529.
Hirshfeld, Julian J.; and Reuben, Bertie J., 3,645,780.
Hirshfeld, Julian J.; and Reuben, Bertie J., 3,671,292.
Hirshfeld, Julian J.; Reuben, Bertie J.; and Hacklander, Egon H., 3,682,582.
- Reuber, August. Ground wheel driven oscillating harrow. 3,700,036, 10-24-72, Cl. 172-105.000.
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Gans, Michael James; and Reudink, Douglas Otto John, 3,662,268.
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- Reuge SA: See—
Martin, Claude, 3,693,287.
- Reul, Bernhard: See—
Ross, Gerhard; Reul, Bernhard; Tillmann, Walter; and Liebenhoff, Reinhardt, 3,642,393.
- Reuland Electric Company: See—
Reuland, Frank E.; and Palm, Richard R., 3,657,622.
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Keller, Wolfgang; and Reuschel, Konrad, 3,685,973.
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von Konig, Anita; Kabbe, Hans-Joachim; Mader, Helmut; Otto, Rigobert; and Reuss, Helmut, 3,692,527.
- Reusser, Fritz: See—
Argoudelis, Alexander D.; Coats, John H.; and Reusser, Fritz, 3,639,581.
Bergy, Malcolm E.; Coats, John H.; and Reusser, Fritz, 3,689,639.
- Reusser, Raymond E.: See—
Czeck, Joseph J.; Glen Lyon; and Reusser, Raymond E., 3,679,370.
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- Reusser, Robert E.: See—
Crain, Donald L.; and Reusser, Robert E., 3,658,927.
Crain, Donald L.; and Reusser, Robert E., 3,660,516.
Kubicek, Donald H.; and Reusser, Robert E., 3,659,008.

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- Reuter, Fred A.: See—
Moorman, Charles J.; and Reuter, Fred A., 3,673,405.
- Reuter, Fritz, to Eberspacher, J. Regulating arrangement preferably for regulating the temperature in heating systems. 3,649,854, 3-14-72, Cl. 307-310.
- Reuter, Gerhard: See—
Meyer, Kurt; Reuter, Gerhard; and Thumm, Wilhelm, 3,684,485.
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Dhaka, Vir A.; Reuter, James L.; and Sandhu, Jagtar S., 3,634,204.
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Reuter, John, Jr., 3,652,093.
- Reuter, Martin; Beermann, Claus; and Linke, Fritz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for providing cellulose fibre material with a flame-proof finish fast to washing. 3,690,941, 9-12-72, Cl. 117-136.000.
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Woitun, Eberhard; and Reuter, Wolfgang, 3,661,908.
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- Reuther, Albert R.: See—
Thies, Alfred F. B.; Ameling, Bernhard; Reuther, Albert R.; and Fluchter, Werner, 3,670,531.
- Reuther, Karl A. A. Adjustable splint. 3,653,378, 4-4-72, Cl. 128-88.
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Petersen, Harro; and Reuther, Wolfgang, 3,658,804.
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- Reutlingen, Karl-Heinz Digel: See—
Bagmolet, Claude Comeau; and Reutlingen, Karl-Heinz Digel, 3,686,838.
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Krzewinski, Robert J.; and Kirchgessner, Henry J., 3,704,994.
- Revas, Leon, to Hansel, Otto, GmbH. Method of and apparatus for releasing of objects to a transporting device. 3,664,483, 5-23-72, Cl. 198-32.
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- Revco, Inc.: See—
Clark, Robert E., 3,643,291.
Clark, Robert E., 3,693,371.
- Revell, Don H., Jr.; and Copony, Hans W. Tethered ball game device and surface connector. 3,656,747, 4-18-72, Cl. 273-95.
- Revell, Gerald L.: See—
Lewis, William Hurst, 3,638,539.
- Revells, Robert G.: See—
Moyer, Henry F.; and Revells, Robert G., 3,685,714.
- Revenko, Olga Mikailovna: See—
Khcheian, Khachik Egorovich; Revenko, Olga Mikailovna; Tikhonova, Margarita Petrovna; Polkovnikova, Antonina Grigorievna; and Mak, Nikolai Emelianovich, 3,634,487.
- Revenue Systems Limited: See—
Hunn, Bernard Albert; and Howell, Elgan Neville, 3,671,721.
- Reverbasonics, Inc.: See—
Johnson, Richard D., 3,656,762.
- Reversafold Inc.: See—
Wilkins, Edmond J., 3,667,531.
- Revesz, Robert N.: See—
Sitek, George J.; and Revesz, Robert N., 3,636,229.
- Revie, Gilbert N., to Fries & Fries Inc. Solid particulate aromatic materials and process for preparing same. 3,660,115, 5-2-72, Cl. 99-140.
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Gerstein, Terry; Perlberg, William; and Schwarz, Milton, 3,636,213.
Goldberg, Marvin E.; and Pollack, George, 3,687,209.
Pum, Franz J.; and Schnetzinger, Richard W., 3,654,363.
Schwarz, Milton H.; and Goldberg, Marvin E., 3,674,631.
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Iannacone, Rudolph L.; and Revukas, Anthony J., 3,645,696.
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Vockenhuber, Karl; Pammer, Gottfried; Krob, Erwin; Forch, Friedrich; Revy-Belvard, Peter; and Valoh, Alfons, 3,656,703.
- Rex Chainbelt Inc.: See—
Brannon, Edward O., 3,653,409.
Buelow, William H., 3,704,896.
Butzow, Neil W.; and Harris, Bernard, 3,700,295.
Christensen, Norman B.; Clark, Thomas A.; and Webers, Robert J., 3,643,696.
Gley, Paul R., 3,633,953.
Gley, Paul R., 3,694,015.
Gley, Paul R., 3,704,907.
Haker, Edwin J.; and Peterson, Norman L., 3,693,838.
Harwick, Warren J.; and Broome, Joseph Wesley, 3,650,216.
Hudis, Michael I., 3,657,977.
Hudis, Michael I., 3,664,448.
Hudis, Michael I., 3,678,816.
Kormanik, Richard A., 3,701,727.
Leahy, James B.; and Pierson, Robert B., 3,701,413.
Marks, Walter R., 3,704,631.
McIlrath, William P.; and Stougaard, Chris, 3,635,132.
Morris, John M.; and Schrader, Preston H., 3,706,018.
Mueller, Clair W., 3,706,200.
Scaffidi, Francis, 3,645,460.
Schrader, Preston H., 3,668,939.
Schramm, Lester H.; Rank, John B.; and Salkeld, Melvin R., 3,703,016.
Siesennop, W. Wayne; Gibbs, Norman E.; and Bartz, Edward S., 3,695,147.
Weiss, Gordon E.; Rank, John B.; and Quast, Gilbert W., 3,635,349.
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Fiore, John, 3,691,820.
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Polovina, Walter, 3,637,571.
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Stryker, Abner B., Jr., 3,639,374.
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Johnson, Kenneth; and Lense, Robert F., 3,700,388.
- Rey, Hans-Georg; Wielinger, Hans; and Rieckmann, Peter, to Boehringer Mannheim G.m.b.H. Diagnostic agent. 3,668,076, 6-6-72, Cl. 195-103.5.
- Rey, Vasile: See—
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- Reymann, Royal A., Jr.: *See—*
Carlson, Robert J.; and Reymann, Royal A., Jr., 3,673,362.
- Reymond, Welles K.: *See—*
Ciecierski, Walter V.; Reymond, Welles K.; and Cronin, Frederick R., 3,632,882.
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- Reymore, Harold E., Jr.: *See—*
Hayash, Edward F., Jr.; Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., 3,673,128.
- Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., to Upjohn Company. The Hydroxy terminated phosphorus-containing half esters of benzophenone tetracarboxylic acid. 3,639,534, 2-1-72, Cl. 260-930.
- Reynal, Thomas J., to Systronics Incorporated. Information format converter-oscillator. 3,656,066, 4-11-72, Cl. 331-65.
- Reynard, John M.: *See—*
Reed, John M.; Reynard, John M.; and Scibilia, Peter A., 3,705,540.
- Reynard, Kennard A.: *See—*
Rose, Selwyn H.; and Reynard, Kennard A., 3,702,833.
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Chataud, Michel; and Reynard, Remi, 3,686,942.
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- Chevalier, Andre; Grolet, Pierre; and Reynard, Remi, 3,641,658.
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- Reynard, Remi, to Institut Francais du Petrole, des Carburants et Lubrifiants. Flexible pipe for conveying fluids, particularly hydrocarbons. 3,687,169, 8-29-72, Cl. 138-134.000.
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Verstraelen, Marie Marcel Arnold Antoine Ghislain; and Reyners, John Richard, 3,646,252.
- Reyner, Emerson Marshall, II: *See—*
Henschen, Homer Ernst; and Reyner, Emerson Marshall, II, 3,651,432.
- Reyner, Emerson Marshall, III: *See—*
Fritz, William Baird; Sanders, Neil Harrison; Reyner, Emerson Marshall, III; and Fox, Harry Alvin, Jr., 3,683,494.
- Reyner, Franklin W.: *See—*
Havener, John W.; and Reyner, Franklin W., 3,706,395.
- Reyniers, Albert August: *See—*
Verelst, Johan Lodewijk; and Reyniers, Albert August, 3,642,474.
- Reynoir, Diane Greenslit; and Delesdernier, Penelope Brodtmann, to Rendel, Inc. Device for holding modern attractive hairdos. 3,678,945, 7-25-72, Cl. 132-46.00r.
- Reynold Leasing Corporation, *mesne*: *See—*
Moore, Arnold G.; and Newton, Donald A., 3,693,631.
- Reynolds, Alex B.: *See—*
Ticckett, Edward F., 3,650,547.
- Ticckett, Edward F., 3,652,107.
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- Reynolds, Andrew C., Jr.; Carragan, John F.; and Yagusie, George J., to Control Data Corporation, *mesne*. Error detection apparatus. 3,651,458, 3-21-72, Cl. 340-146.1.
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Conrad, John Harold; Reynolds, Anthony Edward St. Aubyn; and Gadd, Edward George, 3,676,707.
- Reynolds, Arthur T., Jr., to Westinghouse Electric Corporation. Common antenna aperture having polarization diversity. 3,680,139, 7-25-72, Cl. 343-756.000.
- Reynolds, Beverly L., to Cybersol, Inc., *mesne*. Therapeutic composition. 3,676,553, 7-11-72, Cl. 424-128.000.
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Marion, Charles P.; and Reynolds, Blake, 3,705,108.
- Reynolds, Brian E.; and Carson, John R., to McNeil Laboratories, Inc. Indole-2-carboxylates. 3,689,503, 9-5-72, Cl. 260-326.13r.
- Reynolds, Carole A.: *See—*
Benjamin, Thae L.; and Reynolds, Carole A., 3,674,270.
- Reynolds, Christopher C., to Servo Corporation of America, *mesne*. Data storage and transfer apparatus for plural-vehicle identification system. 3,700,860, 10-24-72, Cl. 235-61.11e.
- Reynolds, Christopher Finch, to International Computers Limited. Information handling systems for eliminating distinctions between data items and program instructions. 3,633,179, 1-4-72, Cl. 340-172.5.
- Reynolds, Clarke: *See—*
Duckett, John W.; Brooks, Edward A.; and Reynolds, Clarke, 3,705,566.
- Reynolds, David G. Submerged mooring system. 3,670,686, 6-20-72, Cl. 114-230.000.
- Reynolds, David W.: *See—*
Andreasen, Howard P.; Ankeny, Jay H.; Foddy, Harold W.; and Reynolds, David W., 3,676,020.
- Reynolds, David W., to Delavan Manufacturing Company. Piston shoe holddown assembly. 3,641,829, 2-15-72, Cl. 74-60.
- Reynolds, Delbert D.: *See—*
Cossar, Bernard C.; and Reynolds, Delbert D., 3,671,259.
- Reynolds, Eldon J., to Reynolds Research & Manufacturing Corporation. Earth moving scraper and actuator system therefore. 3,651,589, 3-28-72, Cl. 37-129.
- Reynolds, Eldon J., to Reynolds Research & Manufacturing Corporation. Land smoother. 3,684,031, 8-15-72, Cl. 172-686.000.
- Reynolds, Elmer N. Sprinkler head. 3,702,173, 11-7-72, Cl. 239-204.000.
- Reynolds, Eugene E., to Brunswick Corporation. Split detection system. 3,649,015, 3-14-72, Cl. 273-54.
- Reynolds, Eugene E., to SCM Corporation. Registering apparatus. 3,668,378, 6-6-72, Cl. 235-155.
- Reynolds, Frank L.; Langer, Alfred C.; and Tweedie, Ellsworth, to Frictionics of Conn., Inc. Plastic tubing connector. 3,690,704, 9-12-72, Cl. 285-244.000.
- Reynolds, Frank N., to Poultry-Vac, Inc. Poultry suction loading apparatus and method. 3,683,862, 8-15-72, Cl. 119-82.000.
- Reynolds, George A.; Laakso, Thomas M.; Borden, Douglas G.; and Williams, Jack L. R., to Eastman Kodak Company. Light-sensitive polymers. 3,696,072, 10-3-72, Cl. 260-47.0ep.
- Reynolds, George D., Jr.: *See—*
Hejzlar, Sid; Zweig, Robert M.; and Reynolds, George D., Jr., 3,656,568.
- Reynolds, Gordon S.: *See—*
Pannier, Karl A., Jr.; Reynolds, Gordon S.; and Sorenson, James L., 3,680,560.
- Sorenson, James L.; Reynolds, Gordon S.; and Pannier, Karl A., Jr., 3,704,709.
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- Reynolds, Harold J., Jr., to Johns-Manville Corporation. Process for making helically wrapped insulation. 3,657,041, 4-18-72, Cl. 156-190.
- Reynolds, Harry E. Connector for golf club covers. 3,657,774, 4-25-72, Cl. 24-73.
- Reynolds, Howard Lloyd: *See—*
Knollman, Dieter John Henry; Metz, Robert Forcier; and Reynolds, Howard Lloyd, 3,660,611.
- Reynolds, Howard Lloyd, to Bell Telephone Laboratories, Incorporated. First idle line pickup service. 3,701,855, 10-31-72, Cl. 179-18.0es.
- Reynolds Industries, Inc.: *See—*
Kornick, Abraham, 3,681,739.
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Markel, Arthur L., 3,637,080.
- Reynolds, James F.: *See—*
Kuno, Hiromu J.; Berson, Bertrand E.; and Reynolds, James F., 3,668,552.
- Reynolds, James Francis: *See—*
Asspur, Jacques Mayer; Rosen, Arye; and Reynolds, James Francis, 3,659,222.
- Reynolds, James T., to Dana Corporation. Exhaust system for marine outdrive. 3,631,671, 1-4-72, Cl. 60-29.
- Reynolds, John: *See—*
Stromberg, Carl E.; and Reynolds, John, 3,698,858.
- Reynolds, John H., to Monsanto Company. Macroporous enzyme reactor. 3,705,084, 12-5-72, Cl. 195-63.000.
- Reynolds, John M.: *See—*
Fields, Stanley A.; and Reynolds, John M., 3,702,933.
- Reynolds, Julian Louis. Method of operating an electrolysis cell for the production of gases under hydrostatic pressure. 3,652,431, 3-28-72, Cl. 204-129.
- Reynolds, Kenneth; and Hellings, Thomas David Grinter, to Minnesota Mining and Manufacturing Company. Photographic element. 3,666,467, 5-30-72, Cl. 96-49.
- Reynolds, Lamar W., to Beak-O-Vac, Inc. Chick sorting and counting apparatus. 3,661,259, 5-9-72, Cl. 209-123.
- Reynolds Leasing Corporation, *mesne*: *See—*
Fredrickson, James D.; and Hickman, Ella Sue, 3,683,937.
- Reynolds Metals Company: *See—*
Arfert, Horst F. W., 3,673,835.
- Arfert, Horst F. W., 3,695,806.
- Brunner, Hans A.; and Vogeeler, George B., 3,673,834.
- Bryan, George D., Jr., 3,707,245.
- Bylund, Linton D., 3,691,972.
- Coates, Harold Jefferson, 3,634,213.
- Cvacho, Daniel S.; Lee, Harry W., Jr.; and Robertson, Field I., Jr., 3,637,064.
- Cvacho, Daniel S., 3,663,072.

- Cvacho, Daniel S., 3,664,172.
- Cvacho, Daniel S.; Fastabend, Patrick A.; Garriques, Alfred L.; and Jensen, Eric L., 3,698,593.
- Cvacho, Daniel S.; and Lee, Harry W., Jr., 3,704,618.
- Decker, Harvey David; McGraw, James Edward; and Barbour, Richard R., 3,632,488.
- Dewey, Raymond D.; Mapes, Robert S.; and Jones, Garth S., 3,674,926.
- Dill, Raymond Joseph, 3,700,571.
- Farquhar, Melville T., 3,637,130.
- Farquhar, Melville T., 3,647,058.
- Featherston, Richard H., 3,649,184.
- Grosse, Aristid V., 3,682,775.
- Harrison, Maurice Clark; and Vancil, Donald Otis, 3,704,092.
- Hartz, Gerald, 3,662,676.
- Hutcheson, James L., 3,646,726.
- Hutcheson, James L., 3,650,461.
- Joyce, John Frederick; and Daugherty, T. Stevens, 3,699,196.
- Kemppinen, Auvo I.; and Strum, Bobbie W., 3,670,542.
- Kibby, Robert M., 3,673,075.
- Mack, Grnat V., 3,676,905.
- Nighman, William, 3,642,055.
- Pemberton, Donald L., 3,634,810.
- Price, Herbert K., 3,671,615.
- Price, Herbert K., 3,690,985.
- Rager, Donald D.; Heflin, Robert L.; and Wilcox, Dana V., 3,634,649.
- Schmidt, Walther; and Martin, Hubert, 3,655,362.
- Siemonsen, Frederik A.; and Bublitz, Robert F., 3,695,084.
- Swenck, George F., 3,691,625.
- Taylor, Glen A., 3,633,266.
- Watts, Richard M., 3,636,830.
- Watts, Richard M., 3,676,952.
- Wilson, Calvin L., 3,640,209.
- Wilson, Calvin L., 3,704,142.
- Wilson, Calvin L.; and Fox, John H., Jr., 3,707,028.
- Reynolds Metals Company, *mesne*: *See—*
Grosse, Aristid V., 3,677,326.
- Reynolds, Michael Leslie: *See—*
Coackley, Robert; Reynolds, Michael Leslie; and Rodgers, Clive Douglas, 3,641,345.
- Reynolds Products Inc.: *See—*
Nitschneider, Robert M.; Neumann, Charles G.; and Krueger, Harvey R., 3,677,461.
- Reynolds, R. J., Tobacco Company: *See—*
Beard, Hoyt S., 3,631,864.
- Beard, Hoyt S., 3,631,867.
- Beard, Hoyt S., 3,651,819.
- Bluhm, Herbert J.; and Fluck, Eugene R., 3,674,806.
- Conrad, Lucas J., 3,707,228.
- Conrad, Ladas J.; and Pope, Raymond C., 3,670,882.
- Dickens, Alvin J., Jr., 3,700,461.
- Heckman, Robert A., 3,637,403.
- Hester, Benny Lee, 3,672,456.
- Hester, Benny Lee, 3,672,457.
- Lee, Chin K.; Hayes, Lawrence E.; and Long, Margaret E., 3,645,848.
- Leffingwell, John C., 3,676,504.
- Leffingwell, John C.; and Shackelford, Ronald E., 3,689,562.
- Leffingwell, John Charles, 3,655,720.
- Leffingwell, John Charles, 3,658,849.
- Martin, Paul B., Jr.; and Spencer, Gilbert W., 3,688,924.
- McArthur, Colin S.; and Hester, Benny L., 3,659,437.
- Phillips, Floyd L., Jr., 3,638,787.
- Phillips, Floyd L., Jr., 3,669,251.
- Pinkham, Jesse R., 3,638,661.
- Pinkham, Jesse R., 3,638,662.
- Pinkham, Jesse R., 3,640,287.
- Roberts, Donald Leroy; and Rice, William Yates, Jr., 3,681,428.
- Sherrill, Joseph H., 3,685,527.
- Squires, William C.; and Hayes, Lawrence E., 3,644,176.
- Reynolds, Ralph K.: *See—*
Otto, Robert J.; Sinclair, Alex H.; Reynolds, Ralph K.; and Neargardner, Robert F., 3,680,924.
- Sinclair, Alex H.; Kozowyk, Ted; Reynolds, Ralph K.; Neargardner, Robert F.; and Edson, Robert H., 3,642,332.
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Reynolds, Eldon J., 3,651,589.
- Reynolds, Eldon J., 3,684,031.
- Reynolds, Richard A., to Texas Instruments, Incorporated. Surface contaminant removal. 3,671,313, 6-20-72, Cl. 117-212.000.
- Reynolds, Richard S., to Sylvania Electric Products, Inc. Laser beam attenuator. 3,655,268, 4-11-72, Cl. 350-152.
- Reynolds, Richard W., to Sundstrand Corporation. Emergency hydraulic power system. 3,660,977, 5-9-72, Cl. 60-39.28.
- Reynolds, Richard W. Sectionalized pontoon apparatus. 3,673,976, 7-4-72, Cl. 114-61.000.
- Reynolds, Robert J.; and Quigogue, Virgilio J., to Burroughs Corpora-

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- Reynolds, Robert W.; Bibeau, James K.; and Jansen, Francis J., to Xerox Corporation. Developer apparatus. 3,669,072, 6-13-72, Cl. 118-637.000.
- Reynolds, Robert W.; and Wight, George P., to Clary Corporation. Attitude indicating instrument. 3,698,823, 10-17-72, Cl. 356-250.000.
- Reynolds, Roland Bruce: *See—*
Gersch, Richard C.; and Reynolds, Roland Bruce, 3,640,633.
- Reynolds, Rolfe E.; and Spencer, Louis L., to Textron, Inc. Slide fastener presser foot. 3,646,899, 3-7-72, Cl. 112-235.
- Reynolds, Rolfe E., to Textron, Inc. Automatic trouser fly fabric feeding machine and method. 3,685,471, 8-22-72, Cl. 112-121.290.
- Reynolds, Rolfe E.; and Carlile, Alfred E., to Textron, Inc. Plastic fastener and method of securing same to material. 3,696,470, 10-10-72, Cl. 24-90.000.
- Reynolds, Spencer E.: *See—*
Vozenilek, Theodore M., 3,647,994.
- Reynolds Submarine Services Corporation: *See—*
Markel, Arthur L., 3,660,285.
- Reynolds, Thomas J.: *See—*
Blanchet, James P.; Hotes, Charles M.; and Reynolds, Thomas J., 3,669,329.
- Reynolds, Verne J. Surface conforming disposable surgical preparation applicator. 3,687,140, 8-29-72, Cl. 128-269.000.
- Reynolds, Warren A.: *See—*
Kelly, William J.; and Reynolds, Warren A., 3,681,699.
- Reynolds, Wayne H., to Zenith Radio Corporation. Variable capacitor. 3,702,958, 11-14-72, Cl. 317-253.000.
- Reynolds, William A.: *See—*
Moran, Jack; Stevenson, Boyd; and Reynolds, William A., 3,683,102.
- Reynolds, William E.: *See—*
Bortz, Seymour A.; Rechter, Harold L.; Reynolds, William E.; and Bazell, Seymour, 3,662,405.
- Reynolds, William R.: *See—*
Wiener, George W.; Reynolds, William R.; and Aspden, Robert G., 3,689,324.
- Reynolds, William S., Jr.: *See—*
Smith, Charles L.; and Reynolds, William S., Jr., 3,673,174.
- Reynolds Parsons Limited: *See—*
Elliott, Joseph Merelie, 3,652,882.
- Richardson, Philip, 3,649,860.
- Richardson, Philip, 3,651,357.
- Rezek, John R.: *See—*
Millington, Raymond J.; and Rezek, John R., 3,686,635.
- Rezek, John R.; and Yackish, Thomas M., to Motorola, Inc. Voltage and temperature stabilized multivibrator circuit. 3,644,757, 2-22-72, Cl. 307-273.
- RFL Industries, Inc.: *See—*
Gilbert, Everett A.; and Williams, Channing S., 3,659,178.
- RG-Bilt: *See—*
McKissick, Robert T.; Sebastian, Vincent W.; Davis, Ray D.; and Sasser, Arthur R., 3,636,687.
- Rha, Chokyun: *See—*
Teng, James; and Rha, Chokyun, 3,666,492.
- Rhee, Dong Woo, to GTE Sylvania Incorporated. Self-tracking noise suppressing circuit. 3,700,803, 10-24-72, Cl. 178-7.30r.
- Rheem International Inc.: *See—*
Engelbart, Wilhelm, 3,670,432.
- Rheem Manufacturing Company: *See—*
Borromeo, Giulio, 3,632,009.
- Grolitzer, Arthur J.; and Mounts, Francis E., 3,678,459.
- Raabe, Erwin M., 3,651,202.
- Tillis, Robert, 3,632,253.
- Rhees, Raymond C.: *See—*
Gibson, Fred D., Jr.; Rhees, Raymond C.; Gilson, James I.; and Halker, Bruce B., 3,706,646.
- Rhees, Raymond C., to Kerr-McGee Chemical Corporation. Dry, free-flowing proxygen composition with an organic acid anhydride and alkali metal hydrate. 3,640,885, 2-8-72, Cl. 252-186.
- Rheim Manufacturing Company: *See—*
Daugirda, Paul G., 3,685,542.
- Rheineck, Alfred E.; Nielsen, Paul L.; and Khoe, Teng H., to North Dakota State University Memorial Foundation. Copolymers of hydroxyalkyl methacrylates and an acrylate or methacrylate ester reacted with a partially epoxidized drying oil. 3,676,384, 7-11-72, Cl. 260-23.0ep.
- Rheiner, Alfred, Jr.; Fernex, Michel; and Herrero, Jose, to Hoffmann-La Roche Inc. Antimalarial compositions. 3,674,872, 7-4-72, Cl. 424-229.000.
- Rheiner Maschinenfabrik Windhoff Akt.-Ges.: *See—*
Bucksch, Herbert; and Koch, Helmut, 3,706,145.
- Rheinfelder, William A., to Anaconda Astrodata Co. Automatic compensation of cable television systems. 3,704,419, 11-28-72, Cl. 325-308.000.

Rheinfrank, Lamson, Jr., to Standard-Havens, Inc. Inclined drag conveyor for hot asphalt mix and the like. 3,647,047, 3-7-72, Cl. 198-174.

Rheingold, Lawrence M.; and Berlin, Milton, to Alumet Corporation, The, mesne. Mechanochemical sheet metal blanking system. 3,654,023, 4-4-72, Cl. 156-345.

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Rheinisch-Westfälische-Elektrizitätswerk Aktiengesellschaft: *See—* Faber, Peter, 3,684,441.

Rheinische Braunkohlenwerke AG: *See—* Thielen, Heinz; Grundmann, Harald; and Putz, Franz, 3,673,563.

Wenzel, Werner; and Penning, Hans, 3,671,402.

Rheinische Braunkohlewerke AG: *See—* Wenzel, Werner; and Schenck, Hermann, 3,647,379.

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Rheinmetall G.m.b.H.: *See—* Geiger, Manfred, 3,636,789.

Hammerle, Martin, 3,631,769.

Hammerle, Martin, 3,661,278.

Harbrecht, Karl; and Munn, Gerhard, 3,668,969.

Klapdohr, Hans, 3,638,526.

Romer, Rudolf; and Hap, Heinz, 3,667,395.

Seifried, Paul, 3,642,341.

Seifried, Paul, 3,686,998.

Wiemers, Karl-Josef, 3,636,813.

Rheinmetall GmbH, Firma: *See—* Lerach, Josef; and Denk, Victor, 3,662,390.

Rheinpreussen Aktiengesellschaft fuer Bergbau und Chemie: *See—* Cherubim, Martin; and Henn, Friedrich, 3,639,314.

Rheinstuhl Eggers-Kehrhahn GmbH: *See—* Vollmer, Kurt, 3,651,919.

Rheinstuhl Huttenwerke AG: *See—* Galt, Helmut, 3,650,483.

Kraus, Willibald, 3,633,550.

Kraus, Willibald, 3,659,561.

Mantell, Detmar Franz Otto; and Mainz, Werner Harald Valentin, 3,650,516.

Rheinstuhl Huttenwerke AG: *See—* Kraemer, Friedrich; Mandel, Jörn; Mayer, Siegfried; Rohrig, Klaus; Schulz, Hans-Peter; Weidenmüller, Hilmar; Haverkamp, Klaus Dieter; and Motz, Jürgen, 3,664,826.

Rheinstuhl Huttenwerke AG: *See—* Schulz, Hans-Peter; and Mandel, Jörn, 3,687,430.

Wahlster, Manfred; and Choudhury, Alok, 3,677,323.

Rheinstuhl Sieger Eisenbahnbedorf GmbH: *See—* Schneider, Felix, 3,683,553.

Rheinstuhl Strico GmbH: *See—* Remmers, Karl; Bertoldi, Gerhard; Leitner, Karl; and Eigner, Erich, 3,648,994.

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RHG Electronics Laboratory, Inc.: *See—* Neuf, Donald, 3,652,941.

Rhiando, Maxwell Alvin Earl. Panels. 3,649,424, 3-14-72, Cl. 161-43.

Rhiando, Maxwell Alvin Earl. Moulding apparatus. 3,674,395, 7-4-72, Cl. 18-4.00p.

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Rhinehart, R. Russel: *See—* Campbell, Kenneth C.; Robinson, Donald E.; Rhinehart, R. Russel; and Truesdale, Wade J., 3,707,588.

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Rhodes, Arthur Neville; and Blackburn, Denis Edward, to British Aircraft Corporation Limited. Aeroplanes having variable sweep wings. 3,669,367, 6-13-72, Cl. 244-46.000.

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Rhodes, Harold B.: *See—* Fender, Clarence L.; and Rhodes, Harold B., 3,644,656.

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Rhodes, John R.: *See—* Morgan, Ira Lon; and Rhodes, John R., 3,697,752.

Rhodes, Joseph E., Jr., to Lockheed Aircraft Corporation. Apparatus utilizing spatial plane filtering for performing optical image enhancement. 3,639,039, 2-1-72, Cl. 350-162.

Rhodes, Michael S.: *See—* Kremers, Frank J.; and Rhodes, Michael S., 3,706,771.

Rhodes, Peter: *See—* Franek, Jozef Tadeusz; and Rhodes, Peter, 3,638,825.

Franek, Jozef Tadeusz; and Rhodes, Peter, 3,687,099.

Rhodes, Philip L.: *See—* Brown, Roger S.; and Rhodes, Philip L., 3,685,100.

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Rhodes, Russell R., to Honeywell Information Systems Inc. Logic sensing circuit having switch contact anti-bounce feature. 3,668,432, 6-6-72, Cl. 307-247.00a.

Rhodes, Warren L.: *See—* Gundlach, Robert W.; and Rhodes, Warren L., 3,682,677.

Rhodes, Warren L.; and Marquart, Vernon L., to Xerox Corporation. Copy system. 3,639,049, 2-1-72, Cl. 355-3.

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Gradeff, Peter S.; and Bertrand, Claude, 3,689,570.

Meuly, Walter C.; and Gradeff, Peter S., 3,668,255.

Rhodiacea AG: *See—* Pfunder, Wilhelm; and Schmidt, Gunter, 3,636,694.

Rhomega System, Incorporated: *See—* Hoge, Henri H., 3,681,620.

Rhone-Poulenc S.A.: *See—* Auge, Jacques; Guillaume, Andre; and Tourniaire, Claude, 3,644,606.

Bakassian, Georges; and Bazouin Andre, 3,646,088.

Bakassian, Georges; and Bazouin, Andre, 3,652,625.

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Bakassian, Georges; Marin, Gilbert; and Lefort, Marcel, 3,658,865.

Balme, Maurice; and Ducloux, Maurice, 3,639,340.

Balme, Maurice; and Ducloux, Maurice, 3,660,337.

Bargain, Michel; and Gruffaz, Max, 3,637,901.

Bargain, Michel; Combet, Andre; and Grosjean, Pierre, 3,658,764.

Bargain, Michel, 3,671,490.

Bargain, Michel; Gruffaz, Max; Laurent, Serge; and Mallet, Maurice, 3,679,639.

Batigne, Daniel; Boichard, Jacques; Gay, Michel; and Janin, Raymond, 3,639,416.

Bazouin, Andre; and Lefort, Marcel, 3,637,780.

Bazouin, Andre; and Lefort, Marcel, 3,637,781.

Bazouin, Andre; and Lefort, Marcel, 3,655,710.

Bazouin, Andre; and Lefort, Marcel, 3,686,252.

Bertrand, Guy; and Maison, Jean Marc, 3,668,253.

Blanchard, Alain; and Faure, Alphonse, 3,651,616.

Boichard, Jacques; Brossard, Bernard Pierre; Duroux, Jacques Marius; and Janin, Raymond Marc Clement, 3,651,135.

Boichard, Jacques; Brossard, Bernard; Gay, Michel; and Janin, Raymond, 3,660,481.

Boichard, Jacques; Brossard, Bernard; Gay, Michel; and Janin, Raymond, 3,661,988.

Boissieras, Jean; Delarue, Bernard; and Lefort, Marcel, 3,660,443.

Boissieras, Jean; Ceyzeriat, Louis; and Poy, Guy, 3,697,568.

Bonin, Yves; and Robin, Jean, 3,661,862.

Bonin, Yves; and Robin, Jean, 3,681,288.

Bourat, Guy, 3,632,685.

Bourat, Guy; and Margraff, Rodolphe, 3,689,438.

Brunie, Jean Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,658,875.

Brunie, Jean-Claude; Constantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,681,447.

Brunie, Jean-Claude; Constantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,689,534.

Carpentier, Alain F., 3,656,185.

Chabardes, Pierre; and Colevray, Louis, 3,647,832.

Chabardes, Pierre; Gandillon, Pierre; Grard, Charles; and Thiers, Michel, 3,671,569.

Chabert, Henri, 3,644,226.

Charamel, Andre; Duroux, Jacques Marius; Siquet, Serge; and Descroix, Jaques, 3,692,830.

Cometti, Andre; Fouche, Jean; and Le Goff, Yves, 3,696,103.

Commarmot, Roger, 3,653,787.

Commarmot, Roger, 3,674,236.

Daunis, Henri; and Perras, Philippe, 3,654,365.

Daunis, Henri; and Gominet, Marcel, 3,658,905.

David, Reginald; and Estienne, Jean, 3,671,582.

Debarre, Francois; and Poiget, Gilbert, 3,632,605.

Dewilde, Francois; and Frot, Guy Gabriel, 3,646,051.

Dewilde, Francois; and Frot, Guy Gabriel, 3,702,329.

Ducloux, Maurice; and Gruffaz, Max, 3,634,324.

Fabre, Albert, 3,674,628.

Farge, Daniel; Messer, Mayer Naoum; and Moutonnier, Claude, 3,641,127.

Farge, Daniel; Messer, Mayer Naoum; and Moutonnier, Claude, 3,652,666.

Faure, Alphonse; Gigou, Claude; Mingat, Robert; and Ruau, Michel, 3,639,320.

Florent, Jean; Lunel, Jean; and Renaut, Jacques, 3,703,439.

Fouche, Jean Clement Louis, 3,658,815.

Garnier, Roger, 3,632,394.

Garnier, Roger; Hogenmuller, Roger; and Massebeuf, Jacques, 3,660,348.

Gattus, Jean; and Mallet, Maurice, 3,671,481.

Grunfeld, Maximilien; and Bodin, Jean-Marie, 3,649,683.

Jeanmart, Claude; Messer, Mayer Naoum; and Simon, Pierre Edouard, 3,644,366.

Jeanmart, Claude; and Messer, Mayer Naoum, 3,696,116.

Jolles, Georges, 3,665,018.

Julia, Marc, 3,652,652.

Julia, Marc, 3,655,620.

Julia, Marc, 3,658,879.

Laforest, Jean; and Miton, Pierre, 3,703,466.

Lartigau, Guy, 3,658,898.

Le Bris, Louis; Michelet, Daniel; and Rakoutz, Michel, 3,671,552.

Le Quernec, Francis, 3,688,581.

Le Troadec, Yves, 3,694,534.

Lefort, Marcel, 3,666,783.

Lefort, Marcel, 3,689,519.

Linares, Hubert, 3,652,578.

Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,657,420.

Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,658,987.

Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,682,886.

Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, 3,686,396.

Marze, Xavier, 3,676,326.

Marze, Xavier, 3,684,784.

Morel, Jacques, 3,646,149.

Mourier, Emile, 3,640,851.

Nouvel, Jacques, 3,694,511.

Parasko, Nicou, 3,652,615.

Quentin, Jean Pierre; and Ruau, Michel, 3,644,225.

Quentin, Jean-Pierre; and Ruau, Michel, 3,689,315.

Rio, Andre, 3,686,116.

Rio, Andre, 3,689,457.

Robin, Jean, 3,651,027.

Roget, Jean; and Tarbouriech, Philippe, 3,642,452.

Sausse, Andre, 3,631,986.

Sausse, Andre, 3,696,806.

Tchelitcheff, Serge, 3,644,653.

Vilain, Raymond, 3,683,420.

Werner, Georges, 3,655,871.

Rhone-Poulenc S.A.: *See—* Duffaut, Norbert; Dunogues, Jacques; Calas, Raymond; and Marin, Gilbert, 3,657,302.

Rhone-Progil: *See—* Fischer, Nicolas, 3,703,485.

Rhor, Otto: *See—* Janiak, Stefan; and Rhor, Otto, 3,652,580.

Rhoton, Richard S.; and Thorne-Booth, George M., to Westinghouse Electric Corporation. A.C. threshold amplifier for use in failsafe applications. 3,657,663, 4-18-72, Cl. 330-165.

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Rhudy, John S.: *See—* Davis, John A., Jr.; and Rhudy, John S., 3,707,190.

Rhum, David; and Weintraub, Lester, to Air Reduction Company, Incorporated, mesne. Addition homopolymers of divinyl carbonates. 3,651,020, 3-21-72, Cl. 260-77.5.

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Rhyne, Earl C., Jr., to Sola Basic Industries, Inc. Solid state meter relay. 3,671,863, 6-20-72, Cl. 324-157.000.

Rhyne, Thomas C.: *See—* Clifford, Alan F.; Rhyne, Thomas C.; and Thompson, James W., 3,666,784.

Rhys, Hugh R.: *See—* Gillespie, Robert M.; and Rhys, Hugh R., 3,650,396.

Rialland, Jean Francois: *See—* Bonnefille, Robert; Rialland, Jean Francois; and Robert, Jack, 3,649,364.

Riat, Henri: *See—* Seitz, Karl; Klahre, Guenter; and Riat, Henri, 3,655,662.

Riat, Henri; and Oesterein, Fritz, to Ciba-Geigy AG. Monoazo dyestuffs containing an alkoxy triazine. 3,655,639, 4-11-72, Cl. 269-153.

Riat, Henry: *See—* Oesterlein, Fritz; and Riat, Henry, 3,642,765.

Ribas, Carlos Rodriguez. Mop wringer. 3,699,606, 10-24-72, Cl. 15-261.000.

Ribb, Harry F., Jr.: *See—* Shank, Richard C.; Zucker, Carl E.; Jones, David H.; Ribb, Harry F., Jr.; and Bayard, Robert T., 3,640,844.

Ribback, Bernd. Machine tool for plastic shaping or fashioning. 3,668,915, 6-13-72, Cl. 72-76.

Ribbecke, Lawrence F., to Sapolin Paints, Inc. Paint shield for windows. 3,651,783, 3-28-72, Cl. 118-505.

Ribbels, Hendrik; and Lefferts, Johannes. Method for the connection of the ends of belts. 3,694,282, 9-26-72, Cl. 156-157.000.

Ribbentrop, Annemarie: *See—* Winter, Werner; Thiel, Max; Stach, Kurt; Schaumann, Wolfgang; and Ribbentrop, Annemarie, 3,639,423.

Ribberink, Engelbertus, to Smit Nijmegen Electrotechnische Fabrieken N.V. Apparatus for anchoring a river mine or other explosive charge. 3,633,508, 1-11-72, Cl. 102-13.

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Riblet, Henry J. Graded step waveguide twist. 3,651,435, 3-21-72, Cl. 333-98.

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Ribner, Morris; and Keough, Timothy J., to International Telephone and Telegraph Corporation. Circuits for supplying supervisory tones, tuning signals, lamp blinking control and redundant circuit switchover for an epabx. 3,637,948, 1-25-72, Cl. 179-84.

Ribout, Pierre: *See—* Epszstein, Bernard; Kantorowicz, Gerard; and Ribout, Pierre, 3,689,852.

Ribout, Pierre, to Thomson-CSF. Systems for sealing enclosures. 3,650,429, 3-21-72, Cl. 220-2.1.

Ricardo & Co. Engineers (1927) Limited: *See—* Alcock, John Forster, 3,656,582.

Ricardo, Louis A.: *See—* Mowry, Harry E.; Ricardo, Louis A.; and Carricato, Guy V., 3,637,202.

Ricaud, Pierre; and Cynober, Simon A., to Jeumont-Schneider. Conveyor systems. 3,706,286, 12-19-72, Cl. 104-172.00s.

Ricaud, Pierre A.; and Cynober, Simon A., to Jeumont-Schneider. Electromagnetic junction, inter alia for an overhead duo-rail conveyor. 3,702,099, 11-7-72, Cl. 104-105.000.

Ricca Data Systems, Inc.: *See—* Beveridge, Robert W.; and Macaluso, Felix, 3,665,164.

- Ricci, Flavio. Interchangeable spherical gem setting and a corresponding ring provided with said setting. 3,653,227, 4-4-72, Cl. 63-29.
- Ricci, John N.: *See—*
Munson, Whitney K.; and Ricci, John N., 3,672,635.
- Ricci, Roy J.: *See—*
Staffin, Robert; Ricci, Roy J.; and Juels, Ronald J., 3,676,647.
- Ricci, Vero; and Colalillo, Edward P. Traveling cylinder printer with platen roller driven in closed path. 3,673,960, 7-4-72, Cl. 101-269,000.
- Ricci, Vincent C.; and Simon, William F., to Sperry Rand Corporation. Split output for a logic gate. 3,681,615, 8-1-72, Cl. 307-214,000.
- Ricciardi, Giuseppe; and Sandrone, Bruno, to Olivetti, Ing., C., & C., S.p.A. Carriage shifting arrangement for teleprinters and terminal apparatus in general. 3,646,268, 2-29-72, Cl. 178-25.
- Riccio, Victor D. S. Remote controlled mirror. 3,687,525, 8-29-72, Cl. 350-289,000.
- Ricciottiello, Michael; and Kreitmayer, Harry A., to Spaulding Fibre Company, Inc. Method of preventing measuring when making epoxy laminates. 3,660,199, 5-2-72, Cl. 156-306.
- Ricco, Silvio: *See—*
Steinberg, Adalberto; and Ricco, Silvio, 3,672,007.
- Rice Barton Corporation: *See—*
Bassett, Kirk W.; and Ford, Frank P., 3,679,524.
- Rice, Clifford M. Anti-slip footpiece. 3,631,614, 1-4-72, Cl. 36-61.
- Rice, Dale E., to Cardwell Oil Corporation Ltd. (N.P.L.), mesne. Cordless telephone system. 3,644,681, 2-22-72, Cl. 179-41.
- Rice, David E.: *See—*
Loudas, Basil L.; and Rice, David E., 3,647,891.
- Rice, Dennis D.: *See—*
Edwards, Louis J.; Hopkins, Bruce D.; and Rice, Dennis D., 3,680,963.
- Rice, Dennis Keith: *See—*
Koechner, Walter; Rice, Dennis Keith; and De Shazer, Larry Grant, 3,702,974.
- Rice, Doris Marvin; to Jefferson Chemical Company, Inc. Molded flexible polyurethane foam. 3,632,707, 1-4-72, Cl. 264-54.
- Rice, Edward J., to TRW Inc. Method for fabricating semiconductor junctions. 3,676,230, 7-11-72, Cl. 148-187,000.
- Rice, Edwin E.: *See—*
Geen, Henry C.; and Rice, Edwin E., 3,645,521.
- Rice, Edwin E., to Chemotronics, Incorporated. Apparatus for rapid high energy removal of superfluous projections. 3,666,252, 5-30-72, Cl. 266-2,00r.
- Rice, Edwin Eugene; and Franklin, Charles Henry, to Chemotronics International, Inc. Method for the removal of unwanted portions of an article. 3,676,963, 7-18-72, Cl. 51-320,000.
- Rice, Edwin Eugene; and Franklin, Charles Henry, to Chemotronics International Inc. Method for the removal of unwanted portions of an article by spraying with high velocity dry ice particles. 3,702,519, 11-14-72, Cl. 51-310,000.
- Rice, George A.: *See—*
Girard, Roland T.; and Rice, George A., 3,677,796.
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- Rice, George L. Tie rack. 3,653,515, 4-4-72, Cl. 211-13.
- Rice, Graham; Whitby, Herbert C.; and Dunn, Peter Douglas, to United Kingdom Atomic Energy Authority. Electric fluid heater. 3,688,083, 8-29-72, Cl. 219-381,000.
- Rice, Hal H.; and Dudash, James J., to General Motors Corporation. Stabilized nickel oxide seal. 3,646,993, 3-7-72, Cl. 165-9.
- Rice, Harold D.; and Leach, Sam L., to Pid Corporation, mesne. Apparatus for making pictorial parallax panoramagram units. 3,635,778, 1-18-72, Cl. 156-500.
- Rice, Harold D. Line transfer apparatus. 3,679,151, 7-25-72, Cl. 242-85,000.
- Rice, Herbert L.; Cizek, Arthur; and Thamar, Marvin O., to Milchem Incorporated. Acrylic composition for water treatment and process for making same. 3,665,035, 5-23-72, Cl. 260-537.
- Rice, Ivan G., to De Laval Turbine Inc. Combined gas-steam turbine power plant. 3,703,807, 11-28-72, Cl. 60-39,18b.
- Rice, James S., to Industrial Nucleonics Corporation. Noninteracting control of moisture and fiber content of fibrous sheet during manufacture. 3,676,295, 7-11-72, Cl. 162-198,000.
- Rice, James S., to Industrial Nucleonics Corporation. Anticipatory control of headbox slice opening in a paper machine. 3,703,436, 11-21-72, Cl. 162-198,000.
- Rice, John A.; and Stewart, Mary J. Sulfophenoxy malonate compounds. 3,700,721, 10-24-72, Cl. 260-470,000.
- Rice, Monroe C. Wheeled carrier for chain saw. 3,675,689, 7-11-72, Cl. 143-32,00n.
- Rice, Orval Leroy, to Parker-Hannifin Corporation. Directional control valve. 3,642,027, 2-15-72, Cl. 137-596.2.
- Rice, Patricia A., to Imperial Crucible Products Company, The. Apparatus to protect a switch chamber against moisture. 3,683,600, 8-15-72, Cl. 55-385,000.
- Rice, Rex: *See—*
Smith, William R.; and Rice, Rex, 3,643,227.
Smith, William R.; Rice, Rex; and Mazor, Stanley, 3,647,348.
- Rice, Rex; and Smith, William R., to Fairchild Camera and Instrument Corporation. Memory control system. 3,643,225, 2-15-72, Cl. 340-172.5.
- Rice, Rip G.: *See—*
Frank, Victor S.; Stahly, Eldon E.; and Rice, Rip G., 3,676,311.
- Rice, Robert C. Scaffold structure. 3,684,055, 8-15-72, Cl. 182-17,000.
- Rice, Roger A.: *See—*
Campbell, Trevor G.; Larson, Robert V.; Stahl, Sebald K.; Liess, Richard K.; and Rice, Roger A., 3,653,132.
- Rice, Roy W.: *See—*
United States of America, National Aeronautics and Space Administration, 3,698,848.
- Rice, Stanley B., Jr., to Texas Instruments, Incorporated. Preparation of welding surfaces on semiconductors. 3,647,534, 3-7-72, Cl. 117-212.
- Rice, Walter W., Jr.: *See—*
Jensen, Reed J.; and Rice, Walter W., Jr., 3,662,280.
- Rice, William Yates, Jr.: *See—*
Roberts, Donald Leroy; and Rice, William Yates, Jr., 3,681,428.
- Rich, Andrew V.; and Zarlengo, Eugene F. Ditch cleaning attachment for high lift material handling equipment. 3,653,524, 4-4-72, Cl. 214-145.
- Rich, Archie G. Anti-litter peanut sales bag. 3,693,868, 9-26-72, Cl. 229-56,000.
- Rich, Beldon L., to Parker-Hannifin Corporation. Reversing switch actuator for fluid motor. 3,661,053, 5-9-72, Cl. 91-275.
- Rich, Blaine B.; and Brown, Rex M., to Thiokol Chemical Corporation. Multi-way snow grooming apparatus for ski slopes. 3,685,404, 8-22-72, Cl. 94-44,000.
- Rich, Edward; and McLeod, Norman H., to United States of America, National Aeronautics and Space Administration. Bacterial contamination monitor. 3,666,631, 5-30-72, Cl. 195-127,000.
- Rich, Elvis; and Von Rosenberg, Edgar L., to Esso Production Research Company. Artificial lift system. 3,653,717, 4-4-72, Cl. 299-5.
- Rich, Everett W. Wheeled toy. 3,669,468, 6-13-72, Cl. 280-267,000.
- Rich, George Joseph: *See—*
Hobden, Maurice Vernon; Rich, George Joseph; and Robertson, Daniel Stewart, 3,670,186.
- Rich, Harold T.: *See—*
Duron, Paul P.; and Rich, Harold T., 3,670,516.
- Rich, James L.; and Weintraub, Marvin H., to Ford Motor Company. Friction material additives for improved performance. 3,647,744, 3-7-72, Cl. 260-38.
- Rich, John, Enterprises, Inc.: *See—*
Walker, Grant W.; and Ford, Duane B., 3,680,662.
- Rich, John Parker; and Carlsmith, Lawrence Allan, to Improved Machinery, Inc. Apparatus and methods of continuous digesting. 3,700,548, 10-24-72, Cl. 162-17,000.
- Rich, Joseph A., to General Electric Company. Series double break rod array vacuum switch. 3,643,047, 2-15-72, Cl. 200-144.
- Rich, Joseph A., to General Electric Company. Periodic electrode structure for vacuum gap devices. 3,679,474, 7-25-72, Cl. 313-217,000.
- Rich, Joseph L. Apparatus for fabricating plastic cushioning an insulating material. 3,703,430, 11-21-72, Cl. 156-497,000.
- Rich, Leonard G., to Gerber Scientific Instrument Company, The. Damping apparatus for a linear step motor having two translational degrees of freedom. 3,656,014, 4-11-72, Cl. 310-913.
- Rich Manufacturing Company of California, mesne: *See—*
Page, Edward, 3,677,282.
- Rich, Maurice E., Jr., to Troxel Manufacturing Company. Saddle support means. 3,643,995, 2-22-72, Cl. 297-209.
- Rich, Theodore A., to Environment-One Corporation. Variable rate continuous flow condensation nuclei meter having adjustable expansion period and improved gain. 3,632,210, 1-4-72, Cl. 356-37.
- Rich, Theodore A., to Environment-One Corporation. Self adjusting-short pulse detecting and amplifying circuit. 3,664,740, 5-23-72, Cl. 356-37,000.
- Rich, Theodore A., to Environment-One Corporation. Mixing type condensation nuclei meter. 3,694,085, 9-26-72, Cl. 356-37,000.
- Rich Tool & Die Company: *See—*
Richard, Yvon L.; and Wojchowski, Charles, 3,698,273.
- Richard, Connie E.: *See—*
United States of America, National Aeronautics and Space Administration, 3,665,751.
- Richard, David J., to United States of America, Air Force. Tunable omnidirectional antenna. 3,680,127, 7-25-72, Cl. 343-108,000.
- Richard, Donald F., to American Micro-Systems, Inc. Receptacle for connecting semiconductors to a circuit board. 3,663,921, 5-16-72, Cl. 339-17.
- Richard, Eugene D.: *See—*
Richard, George E.; and Richard, Eugene D., 3,693,195.
- Richard, Eugene D. Aquarium with improved optical qualities. 3,696,789, 10-10-72, Cl. 119-5,000.
- Richard, George E.; and Richard, Eugene D. Apparatus for surf generator. 3,693,195, 9-26-72, Cl. 4-172,160.

- Richard, Georges A. L.; Cognet, Jean-Marie F.; Heullant, Jean; and Vallier, Jean-Pierre, to U.S. Philips Corporation. Fungicidal method and composition. 3,662,067, 5-9-72, Cl. 424-245.
- Richard, Gilbert; and Moronval, Gerard, to Automobiles Peugeot and Regie Nationale des Usines Renault. Device for starting and stopping a diesel engine. 3,675,033, 7-4-72, Cl. 290-38,000.
- Richard, Gordon L.: *See—*
Blosser, Robert W.; and Richard, Gordon L., 3,662,148.
- Richard, Henry P., to Spalding, A. G., & Bros. Inc. Method of removing molding flash and the like from the surface of golf balls. 3,640,028, 2-8-72, Cl. 51-289.
- Richard, James A.: *See—*
Jones, William E. M.; and Richard, James A., 3,643,604.
- Richard, Kenneth L.: *See—*
Eaton, John L., Jr.; Richard, Kenneth L.; and Schwartz, Walter M., Jr., 3,669,004.
- Richard, Louis A.: *See—*
Mowry, Harry E.; Carricato, Guy V.; and Richard, Louis A., 3,663,011.
- Richard, Norman; Jean, Robert; Huh, William; and Patton, Willard Thomas, to RCA Corporation. Flexible and slidable waveguide feed system for a radiating horn antenna. 3,698,000, 10-10-72, Cl. 343-772,000.
- Richard, Patrick L.: *See—*
Patrick, Robert L.; and Richard, Patrick L., 3,706,974.
- Richard, Pierre, to Jap S.A. Method and tool for making a watch dial with raised symbols. 3,646,653, 3-7-72, Cl. 29-177.
- Richard, William R., Jr.: *See—*
Johnson, John H.; and Richard, William R., Jr., 3,655,593.
- Richard, Yvon L.; and Wojchowski, Charles, to Rich Tool & Die Company. Automatic punch press for flexible metal band. 3,698,273, 10-17-72, Cl. 83-183,000.
- Richards, Bernadine J.; and O'Neil, Bernadette T. Article of clothing. 3,633,215, 1-11-72, Cl. 2-105.
- Richards, Bernadine J.; and O'Neil, Bernadette T. Article of clothing. 3,698,015, 10-17-72, Cl. 2-105,000.
- Richards, Brian John, to Siebe Gorman & Company Limited. Closed circuit breathing apparatus. 3,677,267, 7-18-72, Cl. 128-145,800.
- Richards, Charles D. Sunken vessel locator. 3,686,656, 8-22-72, Cl. 340-240,000.
- Richards, David: *See—*
Long, Jack D.; and Richards, David, 3,663,353.
- Richards, David D.: *See—*
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- Richards, Dennis H. Camping trailers. 3,697,122, 10-10-72, Cl. 296-23,00r.
- Richards, Elmer A., to Caterpillar Tractor Company. Self-modulated input clutch for vehicle drive transmissions. 3,667,583, 6-6-72, Cl. 192-105,00a.
- Richards, Erwin H.: *See—*
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- Richards, Frank A. Oil skimmer. 3,700,108, 10-24-72, Cl. 210-242,000.
- Richards, George B. Fluid amplifiers. 3,703,907, 11-28-72, Cl. 137-81,500.
- Richards, George Gilman: *See—*
Bressler, Robert Lee; Alexiev, Iwan Rangelov; Troxell, Frank Vollmer; and Richards, George Gilman, 3,657,595.
- Richards, Giles J.: *See—*
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- Richards, Harold R., to Canadian Patents and Development Limited. Shrinkproofing and improvement in stretch characteristics of wool. 3,697,219, 10-10-72, Cl. 8-127,600.
- Richards, James V., to American Optical Corporation. Photomicrographic exposure meter. 3,658,431, 4-25-72, Cl. 356-227.
- Richards, Joe M., to Nupar Manufacturing Co., Inc. Catalytic heater. 3,662,737, 5-16-72, Cl. 126-92.
- Richards, John Charles Shenstone: *See—*
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- Richards, John F.: *See—*
Eagen, John F.; and Richards, John F., 3,681,230.
- Richards, John F.; and Terrell, Walter L., Jr., to Esso Research and Engineering Company. Baffle construction for flare seal drums. 3,691,732, 9-19-72, Cl. 55-227,000.
- Richards, Leo O.; and Parsons, Walter E. System for automatically and manually testing lines for determining of information can be accurately transmitted thereon. 3,665,303, 5-23-72, Cl. 324-73,000.
- Richards Manufacturing Company: *See—*
Brower, James P., 3,695,256.
Gamett, Robert E., 3,706,310.
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- Richards, Merlyn; and Munden, Jeffery Edward, to Beecham Group Limited. Antibiotic production using a strain of aspergillus candidus. 3,632,477, 1-4-72, Cl. 195-81.
- Richards, Philip C., to Bell Telephone Laboratories, Incorporated. Numerical conversion. 3,680,081, 7-25-72, Cl. 340-347,00d.
- Richards, Raymond S.: *See—*
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- Richards, Robert Doughty. Electrolytic facsimile recording process. 3,632,484, 1-4-72, Cl. 204-2.
- Richards, Robert R.: *See—*
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- Richards, Samuel E., Jr., to Communications Research Company. Conductor identification in multi-conductor means. 3,644,687, 2-22-72, Cl. 179-175.3.
- Richards, Warren, to Pharma Plastics, Inc. Bottle cap. 3,658,203, 4-25-72, Cl. 215-38.
- Richards, William D.: *See—*
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- Richards, William D., to American Optical Corporation. Magnetic belt recorder head adjustment. 3,678,210, 7-18-72, Cl. 179-100,2ca.
- Richards, William R., to Textron, Inc. Snowmobile ski construction. 3,643,979, 2-22-72, Cl. 280-28.
- Richards-Merrell, Inc.: *See—*
Albrecht, William L.; Fleming, Robert W.; and Horgan, Stephen W., 3,673,191.
- Richardson, A. T., & Sons Proprietary Limited: *See—*
Stern, Lionel; and Hadaway, Bernard Milton, 3,635,063.
- Richardson, Alfred W. Electromagnetic energy dosimeter. 3,639,841, 2-1-72, Cl. 325-363.
- Richardson, Arthur W.: *See—*
Birnbaum, Manfred E.; Braytenbah, Andrew S.; and Richardson, Arthur W., 3,643,437.
- Richardson, Barry A.: *See—*
Merriman, Horace B.; Collier, William A. H.; and Richardson, Barry A., 3,683,667.
- Richardson, Barry Anthony, to Wickman Machine Tool Sales Limited. Presses. 3,661,008, 5-9-72, Cl. 72-451.
- Richardson, Brian: *See—*
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- Richardson, Charles D., to Richardson Service, Inc. Method and apparatus for fiberizing molten mineral materials. 3,671,210, 6-20-72, Cl. 65-5,000.
- Richardson, Charles Delton; Corsentino, Robert John, Jr.; and Gould, Oliver Maxwell, to Susquehanna Corporation, The. Process and apparatus for melting slag. 3,658,307, 4-25-72, Cl. 263-27.
- Richardson Chemical Cleaning Service, Inc.: *See—*
Schoenbeck, Delbert L.; and Kincaid, Reece, 3,667,487.
- Richardson, Company, The: *See—*
Alsberg, Henry, 3,697,494.
Kmet, Thomas J.; and Loboda, Jon A., 3,704,321.
- Lombardi, Louis J.; Coyne, Roy J.; and Green, Charles E., 3,681,474.
- Mocas, Verlin A., 3,671,325.
- Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A., 3,632,524.
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- Muzyczko, Thaddeus M.; Frederiksen, Ronald A.; and York, David L., 3,690,880.
- Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A., 3,705,106.
- Noone, Thomas M., 3,674,547.
- Stone, Leslie F., 3,643,876.
- Stone, Leslie F., 3,667,500.
- Testolin, Reno J., 3,643,379.
- Testolin, Reno J., 3,701,222.
- Tirpak, Michael R.; and Rendleman, Harold A., 3,681,305.
- Richardson, Darwin W., to Western Company of North America, The. Removal of scale from surfaces. 3,684,720, 8-15-72, Cl. 252-86,000.
- Richardson, Dean E.; Peterson, Adolph A., III; and Brady, Harold P., Jr., to Union Carbide Corporation. Vinyl chloride polymers and method of preparing same. 3,701,742, 10-31-72, Cl. 260-17,00r.
- Richardson, Donald: *See—*
Kaufman, Robert H.; and Richardson, Donald, 3,667,995.
- Richardson, Donald W.; Roscoe, Stanley N.; and Streeter, Edward, to Hughes Aircraft Company. Navigation director system. 3,652,836, 3-28-72, Cl. 235-150.26.
- Richardson, Dora Nellie: *See—*
Landquist, Justus Kenneth; and Richardson, Dora Nellie, 3,637,856.
- Richardson, Dora Nellie; Walpole, Arthur Leonard; and Paget, George Edward, to Imperial Chemical Industries Limited. Modification of endocrine status with hydrazine derivatives. 3,700,777, 10-24-72, Cl. 424-323,000.
- Richardson, Douglas K.; and Johnson, John G., to Westinghouse Electric Corporation. Centrifugal refrigerant gas compressor capacity control. 3,635,580, 1-18-72, Cl. 415-150.

- Richardson, Douglas K., to Westinghouse Electric Corporation. Refrigeration system with multiple centrifugal compressors and load balancing control. 3,648,479, 3-14-72, Cl. 62-217.
- Richardson, Edwin A.: *See—*
- Coles, Roy D.; and Richardson, Edwin A., 3,669,188.
- Richardson, Edwin A.; and Ueber, Russell C., to Shell Oil Company. Selectively reducing the permeability of a thief zone by electroless metal plating. 3,672,449, 6-27-72, Cl. 166-292.000.
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- Richardson, Edwin A.; and Barnes, Herbert W., to Shell Oil Company. Fracture propping. 3,701,383, 10-31-72, Cl. 166-281.000.
- Richardson, Elby Leon: *See—*
- Hattori, Kiyoshi; and Richardson, Elby Leon, 3,639,331.
- Richardson, Frederick Denys, 1/3 to Metallurgie Hoboken and 1/3 to RST International Metals Limited. Apparatus for measuring in a continuous manner the oxygen in a molten metal. 3,661,749, 5-9-72, Cl. 204-195.00s.
- Richardson, Gayle Darwin. Eze-Wire and cable puller. 3,698,059, 10-17-72, Cl. 29-203.00h.
- Richardson, George W.: *See—*
- Kane, Hugh; and Richardson, George W., 3,663,908.
- Richardson, Harold; and Newman, Bruce D., to Hovermarine (Canada) Limited. Gas-cushion vehicle. 3,700,064, 10-24-72, Cl. 180-119.000.
- Richardson, Harry L.: *See—*
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- Richardson, Harry L.; and Craig, Robert C., to Chemical Construction Corporation. Electrostatic precipitator. 3,668,836, 6-13-72, Cl. 55-131.000.
- Richardson, Howe, Scale Company: *See—*
- Godwin, Gilbert Allan; and Pratt, Chapin A., 3,659,665.
- Pratt, Chapin A.; and Godwin, Gilbert A., 3,692,129.
- Richardson, Hugh H., to General Electric Company. Method and apparatus for making electrical connections. 3,701,877, 10-31-72, Cl. 219-97.000.
- Richardson, Jacob C.: *See—*
- Neal, William J.; Richardson, Jacob C.; and Vining, Thomas F., 3,658,149.
- Richardson, James D., to Amoco Production Company. System for retrieving anchor chains. 3,654,649, 4-11-72, Cl. 9-9.
- Richardson, James E.; and Sherman, Lawrence M., to Cambridge Research and Development Group. Tablet dispenser. 3,651,927, 3-28-72, Cl. 206-42.
- Richardson, James G.: *See—*
- Gamer, Nicholas T.; and Richardson, James G., 3,702,763.
- Richardson, James H., Jr., to CF & I Steel Corporation. Wire pay-off apparatus. 3,664,601, 5-23-72, Cl. 242-129.
- Richardson, James Ivor, to Harris-Intertype Corporation. Register indicating system. 3,653,322, 4-4-72, Cl. 101-248.
- Richardson, James R.; and Richardson, Robert E. Laminated archery bow. 3,659,577, 5-2-72, Cl. 124-24.
- Richardson, Jesse L., to Federal Operating Co. Musical instrument water valve. 3,660,588, 5-2-72, Cl. 84-397.
- Richardson, John H. Elastic pull type exerciser. 3,677,543, 7-18-72, Cl. 272-82.000.
- Richardson, John M.: *See—*
- Myer, Jon H.; O'Mera, Thomas R.; and Richardson, John M., 3,700,907.
- Richardson, John M., to Hughes Aircraft Company. Device for producing identifiable sine and cosine (fourier) transforms of input signals by means of noncoherent optics. 3,669,528, 6-13-72, Cl. 350-205.000.
- Richardson, John W. Safety valve having back pressure compensator. 3,702,142, 11-7-72, Cl. 137-472.000.
- Richardson, Larry E.: *See—*
- Homeier, Ronald F.; and Richardson, Larry E., 3,651,924.
- Richardson, Lonnie J., to Oak Electro/Netics Corporation. Flexible printed circuit forming contact surface around stator of rotary switch. 3,683,132, 8-8-72, Cl. 200-11.00r.
- Richardson, Melvin K., to Clemson University. Harvester. 3,665,689, 5-30-72, Cl. 56-27.500.
- Richardson, Michael Alexander: *See—*
- Rees, Donald Frank; Garnett, John Baron; and Richardson, Michael Alexander, 3,640,076.
- Richardson, Philip, to Reyrolle Parsons Limited. Dynamo-electric machines. 3,649,860, 3-14-72, Cl. 310-260.
- Richardson, Philip, to Reyrolle Parsons Limited. Dynamo-electric machines. 3,651,357, 3-21-72, Cl. 310-256.
- Richardson, Raymond M. Frequency sensitive suspension system fluid damper. 3,702,647, 11-14-72, Cl. 188-283.000.
- Richardson, Robert E.: *See—*
- Richardson, James R.; and Richardson, Robert E., 3,659,577.
- Richardson, Robert J.: *See—*
- Arfaras, George; Brunelle, Reni J.; and Richardson, Robert J., 3,632,161.
- Richardson, Robert W.: *See—*
- United States of America, National Aeronautics and Space Administration, 3,662,744.
- Richardson, Robert W., to Eaton Yale & Towne, Inc. Vehicle safety device. 3,632,132, 1-4-72, Cl. 280-150.
- Richardson, Rolland A., to Pacific Press & Shear Corporation. Ram attitude control system and valve assembly therefor. 3,659,498, 5-2-72, Cl. 91-171.
- Richardson, Ronald D.: *See—*
- Jones, Frank N.; and Richardson, Ronald D., 3,666,769.
- Richardson Service, Inc.: *See—*
- Richardson, Charles D., 3,671,210.
- Richardson, Stephen M.; and Grenda, Edward P. Combination card hold down and audible indicator-keytape. 3,678,880, 7-25-72, Cl. 116-67.000.
- Richardson, Thomas; and Hustad, Gerald O., to Wisconsin Alumni Research Foundation. Polyurethane foams and composition. 3,658,731, 4-25-72, Cl. 260-2.5.
- Richardson, Thomas F., Jr. Package and applicator unit. 3,635,567, 1-18-72, Cl. 401-132.
- Richardson, Thomas F., Jr. Photographic method of design synthesis and evaluation. 3,694,205, 9-26-72, Cl. 96-27.00r.
- Richardson, Thomas L.: *See—*
- McPherson, Frank H.; Lownes, Irvin S., Jr.; and Richardson, Thomas L., 3,706,074.
- Richardson, Vernon C. H. Apparatus for separating water and particulate material from flowing gases. 3,633,342, 1-11-72, Cl. 55-228.
- Richardson, Wallace L.; Kautsky, George J.; and Barusch, Maurice R., to Chevron Research Company. Antiknock tetramethyl lead concentrate. 3,674,826, 7-4-72, Cl. 260-437.00s.
- Richardson, William B.: *See—*
- Gelb, John; Merwin, Eugene M.; and Richardson, William B., 3,643,334.
- Richardson, William S., to Falk Corporation. The. Pinion construction. 3,682,015, 8-8-72, Cl. 74-377.000.
- Richardson-Merrell, Inc.: *See—*
- Albrecht, William L.; and Fleming, Robert W., 3,707,471.
- Binon, Fernand; and Beiler, Jay Morton, 3,678,063.
- Birch, Richard W., 3,684,115.
- Campbell, James A., 3,639,637.
- Carr, Albert A.; and Meyer, Donald R., 3,647,797.
- Carr, Albert A., Jr.; and Meyer, Donald R., 3,634,490.
- Fleming, Robert W.; Wenstrup, David L.; and Andrews, Edwin R., 3,692,907.
- Kim, Hyun Koo, 3,644,363.
- Krueger, Russell F.; Ritter, Harry W.; and Sill, Arthur D., 3,662,062.
- Mack, Richard J., 3,662,068.
- Mc Cart, Frederick J., 3,655,668.
- Palopoli, Frank P.; and Benson, Harvey D., 3,634,517.
- Palopoli, Frank P.; Blohm, Thomas R.; and Kariya, Takashi, 3,647,863.
- Paolini, John P.; and Lendvay, Louis J., 3,632,816.
- Raines, Stephen; and Kovacs, Csaba A., 3,644,397.
- Sill, Arthur D.; and Fleming, Robert W., 3,647,860.
- Tilford, Charles H.; Blohm, Thomas R.; and MacKenzie, Robert D., 3,641,155.
- Viola, Leonard J.; and Gans, Eugene H., 3,634,183.
- Weintraub, Philip M.; and Challey, John R., 3,686,185.
- Richardson-Merrell Limited: *See—*
- Levy, Alan A.; Rodger, Mitchell N.; and Breach, Geoffrey D., 3,671,629.
- Richardson-Merrell S.p.A.: *See—*
- Mastursi, Michele; Lembo, Sabino; and Viterbo, Rene, 3,661,909.
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- Richart, Douglas Steven, to Polymer Corporation. The. Method of reducing sandiness in vinyl coatings. 3,640,747, 2-8-72, Cl. 117-21.
- Richaud, Henri: *See—*
- Chretien, Roland; and Richaud, Henri, 3,658,665.
- Richco Plastic Company: *See—*
- Fegen, James, 3,688,635.
- Richcreek, James T.: *See—*
- Reiley, Forrest A.; and Richcreek, James T., 3,693,165.
- Richel, Inc.: *See—*
- Berky, Richard K.; and Rickel, Edgar J., 3,633,971.
- Richelmann, Bernd H.: *See—*
- Chaparro, John J.; Ellis, Lowell V.; Meanor, Doyle W.; Morton, William D., Jr.; Richelmann, Bernd H.; Ross, George B.; and Toth, John E., 3,677,401.
- Richen Co., Inc.: *See—*
- Kennedy, Harry R., 3,633,706.
- Richens, Kenneth A.; Grover, Scott C.; Allred, James K.; and Shook, James H., to Eaton Yale & Towne, Inc. Warehousing apparatus. 3,632,001, 1-4-72, Cl. 214-730.
- Richens, Robert H.: *See—*
- Hungerford, Philip C., Jr.; Gereby, John L.; and Richens, Robert H., 3,675,536.
- Richer, Irving: *See—*
- Striegl, George; and Timm Otto, 3,659,745.
- Richer, Sarto: *See—*

- Beaudoin, Laurent; and Richer, Sarto, 3,666,323.
- Riches, Eric Edward: *See—*
- Kell, Robert Christopher; Rendle, David Forbes; and Riches, Eric Edward, 3,696,314.
- Richeson, William E., Jr.; and Feher, Mike B., to Magnavox Company. The. Digital function generation network. 3,656,151, 4-11-72, Cl. 340-347.
- Richeson, William E., Jr.; and Roach, Joel K., to Magnavox Company. The. Facsimile reverse signaling system. 3,700,810, 10-24-72, Cl. 179-4.000.
- Richey, Clarence B., to Massey-Ferguson Inc. Two-way plow with hydraulic trip and reset. 3,662,840, 5-16-72, Cl. 172-224.
- Richey, Clifford C., to Richey's Incorporated. Article-support shoulder bracket. 3,682,358, 8-8-72, Cl. 224-5.00r.
- Richey, Thomas B.; and Spilker, Clarence W., to Malmstrom Chemical Corporation. Paraffin wax compositions. 3,702,772, 11-14-72, Cl. 106-270.000.
- Richey's Incorporated: *See—*
- Richey, Clifford C., 3,682,358.
- Richfield Oil Corporation: *See—*
- Kofahl, David C., 3,672,447.
- Richie, Edward H.; and McAlphine, John F. Method for over-labeling gable topped containers. 3,681,160, 8-1-72, Cl. 156-212.000.
- Richins, Kenneth A., to Eaton Yale & Towne, Inc., mesne. Load carriage with operator's platform. 3,631,940, 1-4-72, Cl. 182-148.
- Richins, Kenneth A., to Eaton Corporation, mesne. Guide means for a traversing vehicle. 3,672,305, 6-27-72, Cl. 104-23.00s.
- Richins, Kenneth A., to Eaton Corporation, mesne. Vehicle with coordinated guiding and supporting mechanism. 3,672,307, 6-27-72, Cl. 104-96.000.
- Richland Glass Company, Inc.: *See—*
- Evey, Gaylord H.; and Carson, John B., 3,632,325.
- Richler, Max M., to Atlas Hoist & Body Incorporated. Container transporting vehicle. 3,648,868, 3-14-72, Cl. 214-510.
- Richman, Douglas A., to General Motors Corporation. Fuel tank having bellows for control of fuel evaporation. 3,693,825, 9-26-72, Cl. 220-26.00r.
- Richman, Peter, to Teradyne Applied Systems, Inc. Oscilloscope reader and calibration system. 3,656,053, 4-11-72, Cl. 324-20.
- Richman, Peter D. Electric battery comprising a fuel cell hydrogen generator and heat exchanger. 3,669,751, 6-13-72, Cl. 136-86.
- Richman, Peter L. Electrical measuring systems. 3,633,116, 1-4-72, Cl. 328-144.
- Richman, Peter L. Harmonic-insensitive A.C.-to-D.C. converter. 3,641,420, 2-8-72, Cl. 321-9.
- Richman, Russell B., to United States of America, Interior. Process and apparatus for determining crevice corrosion by polarization techniques. 3,633,099, 1-4-72, Cl. 324-71.
- Richmon, Sidney. Automatic elevator stopping apparatus. 3,674,113, 7-4-72, Cl. 187-29.00r.
- Richmond, Abraham W., to Aeroquip Corporation. Control system for diesel locomotive. 3,701,556, 10-31-72, Cl. 290-40.00b.
- Richmond, Albert R., to Richmond Manufacturing Company, The. Power train for horizontal earth boring machine. 3,679,006, 7-25-72, Cl. 173-152.000.
- Richmond, Albert R., to Richmond Manufacturing Company, The. Boring auger for horizontal earth boring machine. 3,693,734, 9-26-72, Cl. 175-122.000.
- Richmond, Carroll S.: *See—*
- Hugycz, Matyas; and Richmond, Carroll S., 3,688,038.
- Richmond, Charles A., to Nichols Engineering & Research Corporation. Gas scrubbing system. 3,696,590, 10-10-72, Cl. 55-238.000.
- Richmond, Ernest L.: *See—*
- Beroff, Howard; and Richmond, Ernest L., 3,701,725.
- Beroff, Howard; and Richmond, Ernest L., 3,703,452.
- Richmond, James W.: *See—*
- Jepson, Ivar; Morgan, John W.; and Richmond, James W., 3,699,282.
- Richmond, Kenneth D.; and Jensen, Howard J., to Dayco Corporation. Transmission belt and apparatus for and method of making same. 3,634,572, 1-11-72, Cl. 264-159.
- Richmond, Kenneth D., to Dayco Corporation. Method of making power transmission belts. 3,665,069, 5-23-72, Cl. 264-219.000.
- Richmond Manufacturing Company, The: *See—*
- Richmond, Albert R., 3,679,006.
- Richmond, Albert R., 3,693,734.
- Richmond Marine Limited: *See—*
- Thorpe, David, 3,674,170.
- Richmond, Moscow K. Sprocket. 3,654,814, 4-11-72, Cl. 74-243.
- Richmond, Ray S.: *See—*
- Compton, Robert G.; Richmond, Ray S.; and Tracy, Robert A., 3,691,373.
- Richmond, Raymond. Awning device. 3,651,850, 3-28-72, Cl. 160-77.
- Richmond, William J.: *See—*
- Krock, Richard H.; and Richmond, William J., 3,657,803.
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- Krock, Richard H.; and Richmond, William J., 3,687,737.
- Richt, Hubert O.: *See—*
- Von Hornstein, Wolf Freiherr; Richt, Hubert O.; and Liebl, Albert, 3,695,549.
- Richtarcik, Joseph M.: *See—*
- Ritz, Theodore, Jr.; and Richtarcik, Joseph M., 3,661,345.
- Richter, Carl; Pluss, Kurt; and Feth, Georg, to Cilag-Chemie, A.G. Adamantyl urea derivatives. 3,703,537, 11-21-72, Cl. 260-468.00b.
- Richter, Edward S. Apparatus for treating metals. 3,685,208, 8-22-72, Cl. 51-5.000.
- Richter, Ernst, to Stereo-Optics, Inc. Apparatus for stereoscopic photography. 3,687,048, 8-29-72, Cl. 95-86.000.
- Richter, Ferdinand Joseph, to American Cyanamid Company. Storage stable paraformaldehyde sterilizing composition. 3,653,499, 4-4-72, Cl. 206-47.
- Richter, Fred A.: *See—*
- Winsler, Robert J.; and Richter, Fred A., 3,697,723.
- Richter, Fred Eric, to RCA Corporation. Fabricating relatively thick ceramic articles. 3,695,960, 10-3-72, Cl. 156-89.000.
- Richter, Frederic A.: *See—*
- Winsler, Robert J.; and Richter, Frederic A., 3,673,735.
- Richter, Friedrich; and Steiner, Rudolf, to Schoell A.G. Apparatus for treating textiles. 3,640,103, 2-8-72, Cl. 68-177.
- Richter Gedeon Vegyeszeti Gyar Rt.: *See—*
- Bernath, Gabor; Kovacs, Kalman; Palosi, Eva; Gorog, Peter; and Szporny, Lazzlo, 3,654,360.
- Tuba, Zoltan; Bor, Maria, nee Szabo; Komesz, Zoltan; Weitner, Eva, nee Vari; and Gorog, Sandor, 3,705,150.
- Richter, Gerhard; and Schmid, Norbert. Apparatus for processing tanned hides. 3,640,105, 2-8-72, Cl. 69-41.
- Richter, Gerhard, to Siemens Aktiengesellschaft. Raney mixed catalyst. 3,673,116, 6-27-72, Cl. 252-466.00j.
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- Richter, Guenther, to Gelsenberg Beazin Aktiengesellschaft. Fractional desublimation. 3,693,707, 9-26-72, Cl. 165-39.000.
- Richter, Hans H.: *See—*
- Keith, John V.; and Richter, Hans H., 3,641,756.
- Leeson, Richmond T.; and Richter, Hans H., 3,668,855.
- Richter, Hans H., to Leeson Corporation. Friction twister element. 3,668,856, 6-13-72, Cl. 57-77.400.
- Richter, Hans H., to Leeson Corporation. In-line friction twister and method of twisting. 3,670,488, 6-20-72, Cl. 57-77.400.
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- Richter, Hans H., to Leeson Corporation. Friction twisting unit. 3,701,245, 10-31-72, Cl. 57-34.00r.
- Richter, Henry L., to Richter, Henry L., Dr., Corporation. Radiation dosimeter using gas of greater electron affinity and molecular mass than air. 3,665,197, 5-23-72, Cl. 250-83.3.
- Richter, Henry L., Dr., Corporation: *See—*
- Richter, Henry L., 3,665,197.
- Richter, Johan C. F. C.: *See—*
- Verreyne, Abraham Jacob; Job, Leonard Austin; Rerolle, Paul; and Richter, Johan C. F. C., 3,660,225.
- Richter, Johan C. F. C., to Aktiebolaget Kamyrlarstad. Cellulose bleaching plant. 3,704,603, 12-5-72, Cl. 68-18.00f.
- Richter, John C. F. C., to Kamyrlarstad Aktiebolag. Device for feeding dense cellulosic pulp into a closed container. 3,643,878, 2-22-72, Cl. 241-48.
- Richter, John Edward; and Tiura, George Olavi, to AgMac, Inc. Window leaf scavenger. 3,693,331, 9-26-72, Cl. 56-13.200.
- Richter, John F., to Varian Associates. Arc lamp having an acoustical mode absorber. 3,633,060, 1-4-72, Cl. 313-269.
- Richter, John G.: *See—*
- Wolf, Arnold M.; and Richter, John G., 3,637,933.
- Wolf, Arnold M.; and Richter, John G., 3,652,795.
- Richter, Joseph, to Royal Packaging Equipment, Inc. Apparatus for and method of forming vacuum packages. 3,659,393, 5-2-72, Cl. 53-22.
- Richter, Klaus: *See—*
- Preusser, Gerhard; Schulze, Martin; and Richter, Klaus, 3,673,081.
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- Richter, Lewis. Air compressor. 3,667,866, 6-6-72, Cl. 417-203.000.
- Richter, Lothar; and Eichhorn, Georg. Film support coated with polyester and gelatin-silver halide emulsion. 3,694,212, 9-26-72, Cl. 96-87.00r.
- Richter, Robert C.; and Srinath, Shimoga K., to Cincinnati Milacron Inc. Tuned damping means for increasing the minimum dynamic stiffness of a spindle system. 3,643,546, 2-22-72, Cl. 90-11.
- Richter, Robert H., to Magnavox Company, The. Packaging structure. 3,701,465, 10-31-72, Cl. 229-14.00c.
- Richter, Robert K.; and Shkredka, Jurek, to Kaiser Aluminum & Chemical Corporation. Cladding mold system. 3,701,380, 10-31-72, Cl. 164-334.000.
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- Eul, Edward A., Jr.; and Richter, Ronald B., 3,647,990.
- Richter, Ronald W.: *See—*
- Van Den Heuvel, Anthony P.; Richter, Ronald W.; and Joshi, Shrinivas G., 3,676,721.

- Richter, Sidney B.: See—
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Proft, Rudolf; Richter, Siegmund; and Kreutzberger, Gunter, 3,649,486.
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Richter, Wolfgang Max Egon; Lab, Edgar; and Sieblitz, Hans Werner, to Schmalbach-Lubeca-Werke Aktiengesellschaft. Process and device for advancing and simultaneously centering sheet material. 3,668,959, 6-13-72, Cl. 83-48,000.
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Aus der Funten, Helmut; and Richtzenhain, Hermann, 3,654,339.
Stephan, Rudolf; and Richtzenhain, Hermann, 3,707,574.
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Rick, Christian E., to Du Pont de Nemours, E. I., and Company. Molten salt pre-treatment of reactants for TiCl₄ oxidation. 3,639,100, 2-1-72, Cl. 23-202.
Rick, Edward A.: See—
Fitton, Peter; and Rick, Edward A., 3,674,825.
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Rick, Edward A.; McKeon, James E.; Fitton, Peter; and Argento, Benny J., to Union Carbide Corporation. Process for making group VIII metal cyanides and group VIII metal cyanide complexes. 3,678,085, 7-18-72, Cl. 260-429,00r.
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Rick, Frank G. Cutting head for a chamfering tool. 3,673,654, 7-4-72, Cl. 29-97,000.
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Murphy, Frank W., Jr.; Sparks, Buddy G.; Lawrence, Charles H.; and Rickard, Donald R., 3,688,577.
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Bushman, Ronald C.; Rickard, Donn J.; Webb, John D.; Alexander, L. Bruce; and Church, Cleveland B., 3,643,716.
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Rickard, Donn J. Motorcycle suspension apparatus. 3,687,438, 8-29-72, Cl. 267-64,000.
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Rickard, Earl K., to Combustion Engineering, Inc. Method and apparatus for preparing an additive for introduction to a gas scrubber. 3,687,613, 8-29-72, Cl. 423-242,000.
Rickard, Jean M.: See—
Ratowsky, Simon, 3,668,997.
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Bader, Erich; Kannenberg, Karl G.; and Ricke, Hans-Benno, 3,701,676.
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Rickle, Edgar J.: See—
Berky, Richard K.; and Rickle, Edgar J., 3,633,971.
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Jensen, Donald F.; Rickenbach, David H.; and Schaffer, Robert R., 3,658,088.
Rickenbacher, Walter. Punching device with electro-mechanically adjustable punch knives. 3,635,115, 1-18-72, Cl. 83-696.
Ricker, Ernst; Schmidt, Franz; and Schwartz, Erich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Thermal stability of copolymers of trioxane. 3,640,945, 2-8-72, Cl. 260-45.7.
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Chace, Donald E.; Melvin, James A., Jr.; Ricketts, Alan W., Jr.; Steinberger, Edward P.; and Symmes, David T., 3,701,113.
Ricketts, James M.: See—
Sheridan, David Carl; Amann, Charles A.; and Ricketts, James M., 3,638,533.
Ricketts, James R.: See—
Kowalski, William W.; and Ricketts, James R., 3,650,263.
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Wires, Harold O.; Rickly, Samuel E.; Cox, Harold E.; and Preble, Duane M., 3,632,990.
Rickmeier, Carl H., Jr., to Vollrath Co., The. Carafes. 3,664,553, 5-23-72, Cl. 222-183.
Rickmeier, Carl H., Jr.; and Platkus, Walter, to Vollrath Co., The. Handle construction for a bowl. 3,683,452, 8-15-72, Cl. 16-126,000.
Ricoh Co., Ltd.: See—
Akiyama, Hideaki, 3,699,859.
Ataka, Hisanori, 3,690,214.
Fujimoto, Sakae, 3,700,884.
Hashimoto, Hideo, 3,647,206.
Hirafuji, Ban, 3,646,832.
Hiruma, Kenji, 3,651,735.
Iwamoto, Minoru, 3,675,228.
Kagari, Yoshiharu; Ogawa, Toshiya; and Hirokawa, Koichi, 3,689,742.
Kagari, Yoshiharu; Hirokawa, Koichi; and Hasegawa, Toru, 3,690,251.
Kakiuchi, Tokusaburo; Ando, Akira; Akiyama, Hideaki; and Jin-senji, Sei, 3,685,767.
Kamimura, Hajime, 3,649,103.
Kaneko, Hirokazu, 3,678,829.
Kaneko, Tamaki; and Mizuno, Katsumi, 3,685,444.
Kaneko, Tamaki; and Mizuno, Katsumi, 3,702,586.
Kawazu, Motoaki, 3,653,749.
Kobayashi, Yugo, 3,669,537.
Koizumi, Yutaka, 3,693,514.
Kubo, Keishi; Sakai, Kiyoshi; Sato, Takashi; and Kuniaki, Hakamada, 3,689,302.
Kurokawa, Junji; Arai, Fumiaki; and Usui, Noriyuki, 3,674,474.
Miyagawa, Fumihiro, 3,667,367.
Ohta, Wasaburo; and Kasuya, Kazuhiko, 3,637,976.
Ohta, Wasaburo, 3,644,959.
Okajima, Masaki; and Yokoyama, Ryuzaburo, 3,667,670.
Shimizu, Sakae; Arai, Fumiaki; and Kurotori, Tuneso, 3,639,122.
Suzuki, Shigeru; and Nagahara, Yasumori, 3,634,637.
Suzuki, Shigeru, 3,644,691.
Suzuki, Shigeru; Sugita, Keiji; and Nagahara, Yasumori, 3,672,762.

- Suzuki, Shigeru, 3,697,166.
Uchida, Michio, 3,697,849.
Wasaburo, Ohta; and Nobouri, Murayama, 3,704,468.
Yoshikawa, Kinichi, 3,668,648.
Ricoh Watch Co., Ltd.: See—
Fujiki, Yu; and Tsubaki, Hiroshi, 3,650,328.
Riddel, John W., to General Motors Corporation. Thermistor composition. 3,652,463, 3-28-72, Cl. 252-519.
Riddell, Vernon A., to Thiokol Chemical Corporation. Spline wear gauge. 3,668,783, 6-13-72, Cl. 33-179,50r.
Riddington, Fred W., to Sunkist Growers, Inc. Apparatus for printing indicia on fruit. 3,641,930, 2-15-72, Cl. 101-35.
Riddle, Franklin D.; and Willis, John T., to Southern Machinery Company. Fishing pole supports. 3,672,513, 6-27-72, Cl. 211-60,00r.
Riddle, John B.: See—
Tanaka, Frederick K.; Mueller, Fred S.; and Riddle, John B., 3,680,566.
Riddle, John B.; Bergh, Arnot B.; and Forge, Charles O., to Micro Magnetic Industries, Inc. Flux gate magnetometer including backing plate. 3,643,155, 2-15-72, Cl. 324-43.
Riddle, John H.: See—
Magers, Leroy; Riddle, John H.; and Eitzen, August D., 3,687,380.
Riddle, Lavis Albert Henry; and Craig, Thomas, to British Hovercraft Corporation Limited. Flexible skirt assemblies for air cushion vehicles. 3,672,461, 6-27-72, Cl. 180-127,000.
Riddle, Michael W.: See—
Bice, William A.; and Riddle, Michael W., 3,659,458.
Ride, Jean-Louis; and Bellaton, Roland. Electrically operated fishing reel. 3,675,870, 7-11-72, Cl. 242-84,10a.
Ride-Rite Corporation, mesne: See—
Thaxton, Ellis B., 3,664,681.
Ridenour, Charles A. Multi-or-compound cutting miter box. 3,651,840, 3-28-72, Cl. 143-88.
Ridenour, Charles A. Radial arm saw depth gauge. 3,688,815, 9-5-72, Cl. 143-6,00a.
Ridenour, Helen L.: See—
Radnik, Joseph L.; Hahn, Edward E.; and Ridenour, Wayne F., 3,657,875.
Ridenour, James: See—
Longshaw, William J.; Sieson, Roy C., Jr.; and Ridenour, James, 3,687,167.
Ridenour, Richard E.; and Flagg, Edward E., to Dow Chemical Company, The. Tin-oxygen-phosphorous bond compounds. 3,634,479, 1-11-72, Cl. 260-429.7.
Ridenour, Wayne F.: See—
Radnik, Joseph L.; Hahn, Edward E.; and Ridenour, Wayne F., 3,657,875.
Rideout, Arthur J.: See—
Demsky, Herbert M.; Platt, Alan; Rideout, Arthur J.; and Samson, Robert S., 3,650,854.
Rideout, Arthur J., to International Business Machines Corporation. Integrated lateral transistor having increased beta and bandwidth. 3,656,034, 4-11-72, Cl. 317-235.
Rider, Harold D.: See—
Argabright, Perry A.; and Rider, Harold D., 3,641,024.
Rider, Harold D. Method for the production of substituted cyanamides. 3,692,832, 9-19-72, Cl. 260-551,00c.
Rider, Thomas F., to I-T-E Imperial Corporation. Hose construction and method for forming the same. 3,633,629, 1-11-72, Cl. 138-127.
Rider, Thomas F., to Imperial-Eastman Corporation. Adjustable retainable tool balancer. 3,666,220, 5-30-72, Cl. 248-52.
Ridewell Corporation: See—
Raidel, John E., 3,632,128.
Ridge, Ben C. Stenographic machine with collapsible paper web holders. 3,638,776, 2-1-72, Cl. 197-186.
Ridge Ply, Inc.: See—
Tisdale, Lucien E., 3,649,403.
Tisdale, Lucien E., 3,676,263.
Ridge Runner, Inc.: See—
Hagen, Donald H.; and Leopold, Donald L., 3,643,769.
Ridgewell, Brian John: See—
Duck, Edward William; Farmer, John Howard; and Ridgewell, Brian John, 3,644,309.
Duck, Edward William; Ridgewell, Brian John; and Locke, John Michael, 3,676,409.
Marshall, Philip Ronald; and Ridgewell, Brian John, 3,639,371.
Ridgway, James S., to Monsanto Company. Copolyamides from 3-(4-carboxyphenyl)-1,1,3-trimethyl-5-indan carboxylic acid and bis (beta-aminoethyl) benzene or duren. 3,645,983, 2-29-72, Cl. 260-78.
Ridgway, James S.; and Pickett, Oscar A., Jr., to Monsanto Company. Polyamides of a C₇₋₁₂ aliphatic dicarboxylic acid, terephthalic acid and an aliphatic diamine. 3,647,761, 3-7-72, Cl. 260-78.
Ridgway, James S., to Monsanto Company. Terpolyamides. 3,654,236, 4-4-72, Cl. 260-78.
Ridgway, James S., to Monsanto Company. Polyamides containing the o-phenylenediacetic acid moiety. 3,668,190, 6-6-72, Cl. 260-78,00r.
Ridgway, James S.; King, Henry L.; and Pickett, Oscar A., Jr., to Monsanto Company. Copolyamides from 1,6- or 2,6-naphthalene dicarboxylic acid. 3,674,752, 7-4-72, Cl. 260-78,00r.
Ridgway, John A., Jr.: See—
Wolff, William F.; Rosscup, Robert J.; and Ridgway, John A., Jr., 3,647,677.
Ridgway, John A., Jr., to Standard Oil Company. Shell-and-tube fermentor. 3,681,200, 8-1-72, Cl. 195-142,000.
Ridgway, John Anthony: See—
Oldfield, Harry; Healey, Gordon Terry; and Ridgway, John Anthony, 3,659,788.
Ridgway, Kenneth, to Fisons Limited. Agitator for belt conveyor. 3,662,806, 5-16-72, Cl. 259-2.
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Ridgway, Michael: See—
Hillson, Peter J.; and Ridgway, Michael, 3,632,343.
Hillson, Peter John; and Ridgway, Michael, 3,700,448.
Ridgway, Peter Charles; and Callcut, Brain Charles, to Sperry Rand Limited. Head mount for magnetic drum storage devices. 3,634,837, 1-11-72, Cl. 340-174.1.
Ridings, Charles L.: See—
Langendorf, Matthew P.; and Ridings, Charles L., 3,647,985.
Ridley, Donald W.: See—
McMann, Renville H., Jr.; and Ridley, Donald W., 3,634,623.
Ridley, Donald W., to Columbia Broadcasting System, Inc. Vertical synchronization pulse separator. 3,632,872, 1-4-72, Cl. 178-7.3.
Riebling, Eugene F.: See—
Dalton, Robert H.; and Riebling, Eugene F., 3,669,693.
Riebling, Eugene F.; Blaszyk, Paul E.; and Smith, Dennis W., to Corning Glass Works. Fluoride glasses containing xenon. 3,650,779, 3-21-72, Cl. 106-47.
Riebling, Robert W.: See—
United States of America, National Aeronautics and Space Administration, 3,650,474.
Riebs, Richard E., to McGraw-Edison Company. Time delay device. 3,662,220, 5-9-72, Cl. 317-36,0td.
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Riebs, Richard E., to McGraw-Edison Company. Apparatus and method for measuring electrical energy consumption. 3,673,495, 6-27-72, Cl. 324-142,000.
Rieckmann, Peter: See—
Rey, Hans-Georg; Wielinger, Hans; and Rieckmann, Peter, 3,668,076.
Rieckmann, Robert, to Shaw-Walker Company, The. Drawer depository. 3,683,826, 8-15-72, Cl. 109-46,000.
Ried, John D., to Hamilton Company. Chromatograph inlet with rotating septum. 3,672,226, 6-27-72, Cl. 73-422,0gc.
Ried, Walter; and Schmidt, Arthur Heinrich, to Kalle Aktiengesellschaft. Photochromic compounds. 3,645,967, 2-29-72, Cl. 260-476.
Riedel, Charles E.: See—
Koda, Arthur J.; and Riedel, Charles E., 3,688,135.
Riedel, Ernest Paul; and Isaacs, Telma J., to Westinghouse Electric Corporation. Orange-red emitting europium activated yttrium stannate phosphor for warm-white blends. 3,639,252, 2-1-72, Cl. 252-301.4.
Riedel, Franz: See—
Krejan, Friedrich; Beese, Ferdinand; Hufner, Hans; Riedel, Franz; and Holzmann, Rainer, 3,665,649.
Riedel, Guenter: See—
Tartter, Arnold; Riedel, Guenter; and Nold, Eberhard, 3,682,979.
Riedel, John Y., to Bethlehem Steel Corporation. Quenched and tempered low alloy steel. 3,645,723, 2-29-72, Cl. 75-124.
Riedel, Wolfgang, to Silma S.p.A. Film threading and transporting mechanism for use in cinematographic apparatus. 3,662,971, 5-16-72, Cl. 242-192,000.
Riedel, Wolfgang, to Bosch, Robert, Photokino GmbH. Device for deflecting the leaders of convoluted photographic films or the like. 3,664,606, 5-23-72, Cl. 242-192,000.
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Rieder, Lorenz; and Vester, Klaus, to International Standard Electric Corporation. Oscillator phase control loop providing coarse and fine turning signals. 3,649,928, 3-14-72, Cl. 331-10.
Rieder, Otto E., to General Impact Extrusions (Manufacturing) Ltd. Method of forming a heat exchanger. 3,668,757, 6-13-72, Cl. 29-157,30r.
Riedesel, Edwin L.: See—
Babbitt, John H., Jr.; Bell, Richard L.; Riedesel, Edwin L.; and Stark, Sheldon L., 3,632,134.

- Riedesel, Richard G., to Minnesota Mining and Manufacturing Company. Acoustically transparent composition comprising a thermoplastic polymer and organic fluorine containing compound. 3,657,181, 4-18-72, Cl. 260-33.6.
- Riedhammer, Josef; and Glaser, Fritz-Jorg, to Bruningshans Hydraulik GmbH. Hydraulically regulated drive. 3,679,327, 7-25-72, Cl. 417-222.000.
- Riedl, Franz, to Vereinigte Flugtechnische Werke GmbH fruher "Weser" Flugzeugbau/Focke-Wulf/Heinkel-Flugzeugbau. Cover arrangement. 3,647,166, 3-7-72, Cl. 244-102.
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Schramm, Geza; and Riedl, Horst, 3,673,175.
- Riedl, Wilhelm: *See*—
Hirsch, Karl; Riedl, Wilhelm; Winkler, Siegmund; and Pirker, Hans, 3,686,784.
- Riedle, Rudolf: *See*—
Bauer, Ignaz; Riedle, Rudolf; and Nitzsche, Siegfried, 3,660,524.
- Riedrich, Alfred; and Latzen, Werner, to Werkzeugmaschinenfabrik Gildemeister & Comp. Akt.-Ges. Indexible tool turret. 3,651,698, 3-28-72, Cl. 74-818.
- Riegel, Herbert; Schindler, Harvey D.; Sze, Morgan C.; and Brooks, Maurice E., to Lummus Company, The. Dehydrogenation process using molten copper chlorides and oxychloride mixtures. 3,637,895, 1-25-72, Cl. 260-683.3.
- Riegel, Herbert; Schindler, Harvey D.; and Sze, Morgan C., to Lummus Company, The. Hydrocarbon oxidation. 3,641,157, 2-8-72, Cl. 260-599.
- Riegel, Herbert; Schindler, Harvey D.; and Sze, Morgan C., to Lummus Company, The. Nitrile production. 3,652,638, 3-28-72, Cl. 260-465.3.
- Riegel Paper Corporation: *See*—
Conley, Kenneth E.; and Ellison, Thomas M., 3,679,510.
Cote, Raymond A., 3,669,345.
Frech, Everett Bryant, 3,692,621.
Giuliani, Lawrence E., 3,656,682.
Lense, Robert F.; and Zimmer, Richard C., 3,691,724.
Renner, Robert E.; and Premo, Stanley D., 3,633,739.
Vrana, George, 3,658,175.
Young, Chauncey; and Watson, William H., 3,680,764.
Young, Chauncey; and Watson, William H., 3,692,226.
- Riegel Textile Corporation: *See*—
Brocklehurst, Charles E., 3,664,223.
George, Donald K., 3,636,952.
Goodbar, Reid C.; and Pressley, Arther Mitchell, 3,703,073.
Gore, Graves T., 3,661,680.
Gore, Graves T., 3,669,800.
Kern, Dale W., 3,703,175.
Teed, Richard K., 3,702,696.
Tollison, James W.; and Kelley, Joe, 3,705,607.
- Rieger, Arnulf; and Rohm, Fritz. Device for covering a partial baldness. 3,695,278, 10-3-72, Cl. 132-53.000.
- Rieger, Gilbert N.: *See*—
McLeod, Garth M.; Copeland, Clinton R.; and Rieger, Gilbert N., 3,675,287.
- Rieger, Michael L.: *See*—
Pratt, Thomas H.; and Rieger, Michael L., 3,669,009.
- Rieger, Werner Helmut. Tire-protection and anti-skid chain. 3,631,912, 1-4-72, Cl. 152-239.
- Rieger, Werner Helmut. Chain conveyor. 3,659,698, 5-2-72, Cl. 198-140.
- Riegler, Albert: *See*—
Zwahlen, Guenther; Reich, Ernst; and Riegler, Albert, 3,642,686.
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Kindl, Erwin; and Riegler, Ernst, 3,670,697.
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- Riehl, Roger W., to Allied Technology Inc. Weighing scale. 3,633,694, 1-11-72, Cl. 177-165.
- Riehle, Harald, to IWA-Rechenschieberfabrik F. Riehle KG. Foldable game playing board. 3,697,078, 10-10-72, Cl. 273-136.00g.
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Randall, John Courtright; and Riek, Marvin Roy, 3,636,825.
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Streicher, Heinz; Riek, Siegfried; and Leutwein, Manfred, 3,645,612.
- Streicher, Heinz; Riek, Siegfried; and Leutwein, Manfred, 3,674,351.
- Riek, Wolfgang: *See*—
Regelmann, Rolf F.; and Riek, Wolfgang, 3,651,631.
- Rieke Corporation: *See*—
Schurr, Robert E., 3,661,478.
- Rieke, Helmut: *See*—
Scheffer, Harry, 3,635,272.
- Rieke, James K.: *See*—
Wallis, Wilhelm E.; McIntire, Otis R.; Rieke, James K.; and Griggs, Max V., 3,705,041.
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- Riely, Phyllis E., to International Paper Company. Dstomy bag and deodorizing packet therefor. 3,690,320, 9-12-72, Cl. 128-283.000.
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Wenzel, Franz; and Riemann, Karl Heinz, 3,639,460.
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Krekeler, Hans; Meidert, Helmut; Riemenschneider, Wilhelm; and Hornig, Lothar, 3,651,157.
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Alexander, Milton; Garrett, John W.; and Riepenhoff, Ralph R., 3,693,265.
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Knox, Kenneth H.; and Ries, Robert J., 3,664,338.

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- Rieschel, Hans; and Jacobi, Oskar, to Bergwerksverband GmbH. Mining pit prop adjusting device. 3,638,531, 2-1-72, Cl. 91-189.
- Riese, Hans Walter, to Fichtel & Sachs AG. Multiple-disc friction clutch. 3,666,062, 5-30-72, Cl. 192-70.280.
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Curtis, George L.; Riesenberg, James H.; and Kelly, Ralph E., 3,706,393.
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Donley, Harold E.; Rieser, Raymond G.; and Wagner, William E., 3,660,061.
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Depoorter, Henri; and Riester, Oskar, 3,656,958.
Kamper, Helmut; Riester, Oskar; and Gotze, Johannes, 3,660,103.
Ohlschlager, Hans; and Riester, Oskar, 3,650,756.
Ohlschlager, Hans; Riester, Oskar; and Meckl, Heinz, 3,702,767.
Willems, Jozef Frans; and Riester, Oskar, 3,645,738.
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Deibel, Raymond A.; and Riester, William C., 3,644,957.
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- Riet Machine Works, Ltd.: *See*—
Binder, Rolf; and Meier, Max, 3,648,330.
Burgermeister, Ulrich; and Gaggini, Carlo, 3,667,204.
Burgermeister, Ulrich; Gaggini, Carlo; and Wurml, Arthur, 3,681,906.
Graf, Felix; and Wirz, Armin, 3,632,947.
Graf, Felix, 3,661,334.
Hafeli, Jakob; and Pfyffer, Peter Martin, 3,648,522.
Lamparter, Hansruedi; and Spescha, Gelli Anton, 3,686,460.
Lattion, Andre, 3,696,468.
Preysch, Fritz, 3,673,784.
Wirz, Armin, 3,685,752.
Wuest, Olivier, 3,643,883.
Wurml, Arthur, 3,633,353.
Wust, Olivier, 3,701,492.
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Surprenant, Edgar L.; Rieth, Harold F.; and Douglas, Clayton H., 3,666,955.
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- Rieth, Lawrence E., to Stewart-Warner Corporation. Panel indicator lamp assembly. 3,659,093, 4-25-72, Cl. 240-152.
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Otten, Walter; Postma, Gosse Jan; Rietveld, Jan Joost; and Wolber, Jorg, 3,648,099.
- Rietz Manufacturing Co.: *See*—
Tapscott, Jesse J.; and Andersen, Harold T., 3,671,019.
- Rietzler, Erich; and Kress, Dieter, to Kress, Mapan, Dr., KG. Reamer with reversible blade. 3,656,859, 4-18-72, Cl. 408-179.
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Faley, Eric Lake; and Riewe, David Paul, 3,635,236.
- Rife, John W.: *See*—
Cover, Paul F.; Rife, John W.; Kemper, Clyde F.; and Reed, Donald E., 3,685,519.
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- Riffel, Dieter: *See*—
Graf, Hans; and Riffel, Dieter, 3,663,285.
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Riffkin, Charles; Rifino, Carl B.; and Cyr, Gilman N., 3,703,511.
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Egan, Bruce C., Jr.; Rifkin, Morton S.; and King, Grover C., 3,693,293.
- Rigacci, Fernando. Plant for dyeing yarn continuously. 3,696,642, 10-10-72, Cl. 68-5.00d.
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Mizunuma, Mamoru, 3,639,760.
Sekita, Junichiro, 3,634,686.
Shimura, Yoshihiro, 3,639,758.
Shimura, Yoshihiro, 3,668,454.
- Rigal, Pierre: *See*—
Morini, Jean-Louis; Rigal, Pierre; and Leduc, Jean, 3,705,579.
- Rigassi, Norbert: *See*—
Chodnek, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; Schwieter, Ulrich; and Suchy, Milos, 3,686,222.
Chodnek, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; and Schwieter, Ulrich, 3,705,187.
- Rigat, Raymond, Jr.: *See*—
Rovin, Herman; Cobb, James W.; Opuszenski, Theodore; Wilard, Richard H.; Rigat, Raymond, Jr.; and Pellicano, Joseph, 3,670,675.
- Rigbey, Leo J.: *See*—
Crouch, Howard S.; Dickie, Hugh G.; Metcalfe, Albert H.; and Rigbey, Leo J., 3,635,608.
Cuzner, David E.; Rigbey, Leo J.; and Smith, George M., 3,668,487.
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Iler, Ralph K.; and Rigby, Eugene B., 3,660,050.
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Smucker, Clayton A.; Rigby, William H., Jr.; and Zellar, Wade V., 3,684,467.
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McCaffrey, Francis Hamnet Garland; McIndoe, Jack Garnett; and Rigg, Herbert, 3,670,650.
- Rigg, Ralph R.: *See*—
Carlin, Ralph E.; and Rigg, Ralph R., 3,696,632.
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McCafferty, Robert F.; and Riggle, Gerald D., 3,690,989.
- Riggle, Michael: *See*—
Joens, Allan D.; Johnson, Robert W.; and Riggle, Michael, 3,668,675.
- Riggles, William M., Jr.: *See*—
Smith, James W., Sr.; Evans, Benjamin E.; Riggles, William M., Jr.; and Schormann, Urmass, 3,664,456.

- Riggs & Lombard, Inc.: *See*—
Holm, William J., 3,640,099.
Stevens, Brooks, Jr., 3,643,475.
Wilcox, Harold R., 3,640,101.
Wilcox, Harold R., 3,701,269.
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Ram, Michael J.; and Riggs, John P., 3,657,409.
Ram, Michael J.; Riggs, John P.; and Clarke, Charles M., 3,677,705.
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Appleby, Paul E.; Folden, Denver C.; and Riggs, Robert S., 3,644,162.
Appleby, Paul E.; Riggs, Robert S.; and Woodhall, Edwin S., 3,676,260.
Christie, Christopher E.; Fedor, James R.; Harwell, Ishmael S.; and Riggs, Robert S., 3,666,598.
- Righi, Nardino. Automatic tape recording-reproducing apparatus. 3,692,257, 9-19-72, Cl. 242-198.000.
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Gostomski, Lawrence A., 3,638,746.
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Burger, William H.; and Rightor, Edward, Jr., 3,685,818.
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Friedrich, Streck, 3,687,223.
- Rigney, James A.: *See*—
Arey, William F.; Hamner, Glen P.; Mason, Ralph B.; and Rigney, James A., 3,684,691.
- Rigney, James C.: *See*—
Honeyager, Robert G.; and Rigney, James C., 3,659,630.
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Charrier, Andre George; Mascarello, Jean Marius; and Rigolot, Georges Alfred, 3,631,673.
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Blatt, William F.; Agranat, Edward A.; and Rigopoulos, Peter N., 3,705,100.
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Westendorp, Frans Frederik; and Rijnbeek, Antonius Gregorius, 3,663,317.
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Goto, Eiichi, 3,651,370.
Misato, Tomomasa; Huang, Keng Tang; Shirato, Shiroh; Seino, Akio; Nakamura, Yuko; Aizawa, Shojiro; and Taguchi, Ryusuke, 3,657,422.
- Suzuki, Saburo; Isono, Kiyoshi; Nagatsu, Junsaku; Akashiba, Takeo; and Sasaki, Shigeki, 3,700,655.
- Takamatsu, Toshiaki; and Fukada, Eiichi, 3,680,358.
- Rikard, Larry J.: *See*—
Vandermaas, Joseph K.; Rikard, Larry J.; Dunlap, Robert K.; and Lavender, James F., 3,690,942.
- Riken Almite Industry Co., Ltd.: *See*—
Nagai, Kazuko; and Yamada, Yoshiharu, 3,654,100.
- Riken Denko Kogyo Co., Ltd.: *See*—
Nakazato, Hiroshi; Yokoyama, Masayoshi; Nagano, Toshihiro; and Kaneda, Kazuyoshi, 3,634,214.
- Riken Piston Ring Ind. Co., Ltd.: *See*—
Suzuki, Kenzo; and Sasaki, Seiya, 3,640,700.
- Riker Communications Inc.: *See*—
Moskowitz, Irving, 3,668,316.
- Riker Laboratories, Inc.: *See*—
Harrington, Joseph Kenneth; Moore, George G. I.; and Gerster, John F., 3,696,122.
Moore, George G. I.; and Harrington, Joseph Kenneth, 3,689,553.
Trancik, Ronald J.; Moore, George G.; and Harrington, Joseph Kenneth, 3,689,523.
- Riker Laboratories, Inc.: *See*—
Bolger, James W., 3,639,635.
Gerster, John F., 3,647,874.
Harrington, Joseph Kenneth, 3,661,990.
Mendel, Arthur, 3,655,728.
- Rikihoppo Oy: *See*—
Lepomaa, Lauri A.; and Roisko, Timo O., 3,684,435.
- Riley, Albert Edward: *See*—
Heslop, John Richard William; and Riley, Albert Edward, 3,632,372.
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- Riley, Clay W.: *See*—
Zievers, James F.; Riley, Clay W.; and Crain, Richard W., 3,658,470.
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Linder, Kenneth C., 3,676,878.
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Emon, Donald E.; and Riley, Donald R., 3,697,373.
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- Riley, Howard B. Needle. 3,701,462, 10-31-72, Cl. 223-102.000.
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Binnings, Gerald F.; Meyer, Theodore N.; and Riley, Mel J., 3,650,437.
Binnings, Gerald F.; Meyer, Theodore N.; and Riley, Mel J., 3,654,091.
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Day, Richard A.; French, William E.; and Riley, Michael A., 3,662,244.
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Averill, Frederick John; and Riley, Norman, 3,674,852.
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Ferguson, Jeremiah M., 3,640,251.
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Depoorter, Henri; Rillaers, Alfred; Lemahieu, Gerard; and Moelants, Felix Jan, 3,653,905.
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Depoorter, Henri; Rillaers, Guy Alfred; Verhille, Karel Eugene; and Ghys, Theofil Hubert, 3,660,085.
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Schulze-Robbecke, Hans; and Tiedtke, Alfred, 3,672,425.
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Martin, Robert I., 3,641,721.
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Garzotto, Felice, 3,631,692.
Garzotto, Felice, 3,695,220.
Garzotto, Felice, 3,698,211.
- Rimer, D. Woodrow: *See*—
Oberly, James E.; Coless, Thomas L.; and Rimer, D. Woodrow, 3,663,313.
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Rimkus, Hans, 3,674,586.
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Rupp, Arthur F.; Pinajian, John J.; and Rimshaw, Stanley J., 3,635,831.
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Chegolin, Petr Mikhailovich; Rimsky, Gennady Vasilievich; Leonovich, Eduard Nikolaevich; Milner, Fridrikh Grigorievich; Samuilov, Nikolai Nikolaevich; and Anishkevich, Nikolai Nikolaevich, 3,651,309.
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Greco, Edgar J.; Blair, Gerald E.; and Rindone, Guy E., 3,690,908.
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Krause, Hans-Juergen; and Rindsfusser, Johannes, 3,652,010.
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Shier, Wayne Thomas; Rinehart, Kenneth L., Jr.; and Gottlieb, David, 3,669,838.
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Patrick, Keith H., 3,655,130.
Patrick, Keith H., 3,706,417.
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Long, Ernest L.; and Ring, Charles M., 3,693,106.
- Ring, Douglas Harned: *See*—
Ohm, Edward Allen; Ring, Douglas Harned; and Trambarulo, Ralph Francis, 3,666,350.
- Ring, Gene C.: *See*—
Katerndahl, Dean R.; Wilson, Earl D.; Macalalad, Fidel V.; and Ring, Gene C., 3,698,396.
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Robbins, Neal R.; Ring, Howard Daniel; Wright, Gerard C.; Ceelen, Theodore M.; and Hotchkiss, Stuart E., 3,686,678.
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Mikkelsen, Stig Gierup; Ring, Peter; and Stranddorf, Soren Peter Weis, 3,654,445.
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Sclurba, Edward; and Chiappone, Sal, 3,638,525.
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Moll, Franz; Posse, Rolf-Fred; and Ringe, Werner, 3,674,703.
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Patton, Terence R.; and Ringel, Melvin B., 3,701,149.
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- Ringeman, Othmar E., to General Electric Company. Electron discharge device. 3,641,381, 2-8-72, Cl. 313-40.
- Ringer, Richard M.: *See*—
Horst, Robert L.; and Ringer, Richard M., 3,694,634.
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Giese, Emil; Maurer, Ruprecht; and Timtner, Karlheinz, 3,702,649.
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Timtner, Karlheinz; Maurer, Albrecht; and Maurer, Ruprecht, 3,681,939.
- Ringstad, Ralph H.: *See*—
Moakler, William A.; and Ringstad, Ralph H., 3,652,866.
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King, Henry L.; Ringwald, Eugene L.; and Randall, James C., 3,668,187.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., 3,668,188.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., 3,669,925.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., 3,669,933.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., 3,669,935.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., 3,671,494.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., Jr., 3,671,495.
King, Henry L.; Ringwald, Eugene L.; and Randall, James C., 3,684,768.
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Shinn, Jeffrey N.; and Ringwall, Carl G., 3,672,231.
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Spies, Klaus; and Rinio, Johannes, 3,633,972.
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Rink, Wilhelm; and Blecher, Alfred, 3,686,824.

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- Rosendahl, Friedrich Karl; Oertel, Harald; Rinke, Heinrich; and Thoma, Wilhelm, 3,658,746.
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- Rinkler, Heinrich: *See—*
- Giesecke, Hans Alwin Erich; Nogaj, Alfred; Schiefer, Josef; and Rinkler, Heinrich, 3,665,613.
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- Rinkewich, Isaac, 3,667,685.
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- Rinn, Irwin C.; and Stevenson, Charles F., 3,683,782.
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- Porth, Dieter; and Rinnergenschwenter, Hans, 3,642,316.
- Senft, Hervert; and Rinnergenschwenter, Hans, 3,670,592.
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- Ohno, Toshihiko, 3,675,470.
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- Rionda, Jose A., to Esso Research and Engineering Company. Process for making a bagasse pith composite structure. 3,663,673, 5-16-72, Cl. 264-113.
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- Gasper, Ralph L.; and Riordan, Donald E., 3,639,868.
- Riordan, Frank S., Jr., to Monsanto Company. Method of anchoring hair-like synthetic filaments to a wig base. 3,687,752, 8-29-72, Cl. 156-72.000.
- Riordan, Hugh E.: *See—*
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- Webber, Harold H.; and Riordan, Pauline F., 3,699,590.
- Riordan, Vincent P., to Microfibers, Inc. Flocked open looped pile fabric and method of making same. 3,672,929, 6-27-72, Cl. 117-25.000.
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- Garnier, Michel Robert; and Rioux, Christian Paul Gilbert, 3,678,306.
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- Ripart, Guy Marie: *See—*
- Denis, Andre Maxime Philippe; and Ripart, Guy Marie, 3,648,157.
- Ripert, Roger Louis, to Grove Valve and Regulator Company. Fabricated valve body construction. 3,632,084, 1-4-72, Cl. 251-329.
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- Boswell, George A., Jr.; and Ripka, William Charles, 3,641,005.
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- Gleason, Thomas E.; and Ripley, Charles C., 3,662,578.
- Ripley, Charles C., to United States of America, Atomic Energy Commission. Dynamic seal. 3,640,845, 2-8-72, Cl. 176-36.
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- Hosterman, Harry L.; Barnett, Charles B.; and Ripley, Clarence A., Jr., 3,692,414.
- Ripley, Richard E., to Textron, Inc. Expandable bracelet. 3,705,490, 12-12-72, Cl. 59-79.00r.
- Ripley Screen and Strainer Company: *See—*
- Uhlhorn, Walker S., Jr., 3,662,887.
- Ripoche, Gerard: *See—*
- Biet, Jean-Pierre; Nguyen, Quang Tan; Peres, Gerard; and Ripoche, Gerard, 3,697,760.
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- Paoli, Thomas L.; and Ripper, Jose' E., 3,641,459.
- Ripper, Jose Ellis: *See—*
- Paoli, Thomas Lee; and Ripper, Jose Ellis, 3,680,001.
- Paoli, Thomas Lee; and Ripper, Jose Ellis, 3,696,310.
- Paoli, Thomas Lee; and Ripper, Jose Ellis, 3,701,044.
- Rippingille, Edward V., Jr.: *See—*
- Chi Kai Kwok, Clyde, 3,698,416.
- Ripplinger, Roland E., to Honeywell Information Systems Inc. Apparatus for measuring reverse recovery characteristics of diodes. 3,648,168, 3-7-72, Cl. 324-158.
- Rippy, Dorian E.: *See—*
- Siebol, George; and Rippy, Dorian E., 3,680,202.
- Rips, Richard, to Centre National de la Recherche Scientifique and Institut National de la Sante et de la Recherche Medicale. N- α -Amino acylamido pyrroles. 3,644,352, 2-22-72, Cl. 260-247.2.
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- Ririe, Max Henry: *See—*
- Ackermann, Harry John; Blessin, Louis Dewey; Hermann, Leroy Nicholas; Ririe, Max Henry; and Swinbank, Everett John, 3,693,593.
- Ririe, Otis E., to Phillips Petroleum Company. Sample scrubber. 3,643,406, 2-22-72, Cl. 55-238.
- Ris, Ruth: *See—*
- Glatzel, Erhard; and Schulz, Hans, 3,661,447.
- Risany, Joseph J.: *See—*
- Urbutis, Algimantas P.; Schenk, Bernard H.; Risany, Joseph J.; and Marbach, Walter V., 3,704,483.
- Risbeck, John S.: *See—*
- Neumeier, Leander A.; and Risbeck, John S., 3,649,377.
- Risberg, Robert L.; and Wheeler, Blakeslee G., to Cutler-Hammer, Inc. Static square wave resistance tube welding system. 3,636,298, 1-18-72, Cl. 219-108.
- Risbrudt, Glenn A.: *See—*
- Martinson, Milton B.; and Risbrudt, Glenn A., 3,688,479.
- Risch, Gerhard: *See—*
- Maenz, Harald; and Risch, Gerhard, 3,702,216.
- Risch, William E.; and Acton, Daniel D., to Anchor Hocking Corporation. Closure cap liner. 3,637,101, 1-25-72, Cl. 215-40.
- Risdon Manufacturing Company, The: *See—*
- Venus, Frank, Jr., 3,638,867.
- Venus, Frank, Jr., 3,651,993.
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- Rise, William E., to Roto-Finish Company. Flexible gate for a vibratory finishing machine. 3,633,321, 1-11-72, Cl. 51-163.
- Riselli, Nicholas V.: *See—*
- Spolsino, Peter P.; Riselli, Nicholas V.; and Bushway, Kenneth C., 3,645,315.
- Risely, Richard E., to Marquardt Industrial Products Co. Broken rail detector. 3,696,243, 10-3-72, Cl. 246-121.000.
- Risgaard, Ernest Milton, to Nasco Industries, Inc. Sealing means and method. 3,692,608, 9-19-72, Cl. 156-282.000.
- Rish, Anthony S.: *See—*
- Barello, Joseph G.; Keller, Donald K.; and Rish, Anthony S., 3,632,168.
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- Rishton, Michael L.: *See—*
- Humphrey, William G., Jr.; and Rishton, Michael L., 3,699,950.

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- Rising, Bradley D.: *See—*
- Huboi, Robert W.; Riley, Terry E.; and Rising, Bradley D., 3,694,074.
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- Risk, Jerry A., to Texas Instruments, Incorporated. Electrical switch means for effecting sequential operation. 3,688,060, 8-29-72, Cl. 200-67.000.
- Riskind, Alexandr Moiseevich: *See—*
- Nikonov, Vladimir Filippovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Riskind, Alexandr Moiseevich; Stepin, Anatoly Loginovich; Shepyakovsky, Konstantin Zakharovich; and Shklyarov, Isaak Nakhimovich, 3,684,854.
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- Risley, Robert F.: *See—*
- Constable, Charles F.; and Risley, Robert F., 3,650,371.
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- Rissi, Erwin: *See—*
- Ebnother, Anton; Bastian, Jean-Michel; and Rissi, Erwin, 3,678,058.
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- Chavarria, Melchor Julio; and Risso, Osvaldo, 3,686,687.
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- Rister, Donald R.: *See—*
- Paelian, Owen; Rister, Donald R.; and Kellar, Richard L., 3,706,349.
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- Ritcey, Gordon M.: *See—*
- Craigne, William J. S.; Ritcey, Gordon M.; Joe, Edwin Glendon; Melvanin, William; and Smart, Bruce C., 3,702,883.
- Ritchey, James F.: *See—*
- Bukosky, Allen A.; Flavin, Michael A.; Hill, Donald G.; Huizinga, Donald D.; and Ritchey, James F., 3,670,111.
- Ritchey, Steven L.: *See—*
- Franks, Roger G. E.; and Ritchey, Steven L., 3,660,247.
- Ritchie, Colin Foster: *See—*
- Edgar, Owen Burchell; Hughes, William; Lawrance, Derek Robert; Lederer, Gerald; and Ritchie, Colin Foster, 3,679,624.
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- Sherman, Allen Butman, 3,664,292.
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- Leatherman, Ralph W., 3,699,285.
- Ritchie, Kim: *See—*
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- Davidge, Ronald V.; Locklar, Henry C.; Ralston, James C.; and Ritchie, Robert T., 3,700,328.
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- Nielsen, Tage S., 3,686,569.
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- Nelson, Walter A., 3,651,796.
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- Krueger, Russell F.; Ritter, Harry W.; and Sill, Arthur D., 3,662,062.
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 Winter, Werner; Thiel, Max; Stach, Kurt; Schaumann, Wolfgang; Dietmann, Karl; and Ritter, Klaus, 3,683,023.
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 Ritter, Ronald E.: See—
 Hutson, Thomas, Jr.; and Ritter, Ronald E., 3,646,239.
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 John, Harald; Luehdeemann, Rolf; Rittinger, Wilhelm; Sliwka, Artur; and Saum, Walter, 3,660,016.
 Rittler, Hermann L.: See—
 MacDowell, John F.; and Rittler, Hermann L., 3,635,739.
 Rittmann, Albert D.: See—
 Buck, Robert E.; Metzger, Robert W., Jr.; Rittmann, Albert D.; and Sayers, Eugene H., 3,679,946.
 Rittmann, Albert D., to General Motors Corporation. Hall effect switching device. 3,660,696, 5-2-72, Cl. 307-309.
 Rittmann, Albert D., to Functional Devices, Inc. Alarm system. 3,696,382, 10-3-72, Cl. 340-310.000.
 Rittner, Siegfried: See—
 Diery, Helmut; Rittner, Siegfried; and Lorke, Horst, 3,666,779.
 Diery, Helmut; Kiefer, Bernhard; Rittner, Siegfried; and Seidel, Manfred, 3,671,308.
 Ritz, Theodore, Jr.; and Richtarcik, Joseph M. Hub to hub tape cartridge. 3,661,345, 5-9-72, Cl. 242-199.
 Ritzau, Paul, Pari-Werke KG: See—
 Steil, Emeram, 3,658,059.
 Ritzenhoff, Hermann, to Gebrüder Seidel KG. Screw cap for a container. 3,685,678, 8-22-72, Cl. 215-43.00a.
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 Ritzmann, Horst: See—
 Polysius, Jochen; and Ritzmann, Horst, 3,653,644.
 Polysius, Jochen; and Ritzmann, Horst, 3,656,722.
 Weber, Paul; Ritzmann, Horst; and Butschko, Gerhard, 3,664,650.
 Ritzow, Gerald R., to Cutler-Hammer, Inc. Relay contact protecting circuits. 3,639,808, 2-1-72, Cl. 317-11.
 Ritzow, Gerald R., to Cutler-Hammer, Inc. Time delay control system for directional relays with electrical interlock. 3,671,816, 6-20-72, Cl. 317-136.000.
 RIV-SKF Officine di Villar Perosa S.p.A.: See—
 Pettazzi, Paolo, 3,699,792.
 RIV-SKF Officine di Villar Perosa S.p.A.: See—
 Camosso, Domenico, 3,657,781.
 Fransos, Pietro; and Camosso, Domenico, 3,684,337.
 Kinberg, Ragnar, 3,689,081.
 Pesante, Manlio, 3,672,100.
 Senigalliesi, Dino, 3,666,334.
 Zerbola, Giorgio, 3,635,532.
 Riva Calzoni S.p.A.: See—
 Ortelli, Aurelio, 3,696,710.
 Riva, Giovanna: See—
 Jommi, Giancarlo; and Riva, Giovanna, 3,654,267.
 Jommi, Giancarlo; Mauri, Francesco A.; and Riva, Giovanna, 3,689,478.
 Mauri, Francesco A.; Jommi, Giancarlo; and Riva, Giovanna, 3,635,990.
 Rival Manufacturing Company: See—
 Aberer, James B.; Mead, Bill G.; and Farkas, Joseph J., 3,688,400.
 Aberer, Leo F., 3,688,398.
 Mc Lean, Robert E., 3,670,410.
 Mc Lean, Robert E., 3,689,997.
 Scott, Robert J.; and Aberer, Leo F., 3,646,671.
 Scott, Robert J.; and Aberer, Leo F., 3,654,698.
 Rivard, Donald E.: See—
 Campbell, Kenneth N.; and Rivard, Donald E., 3,666,764.
 Rivard, Jerome G., to Bendix Corporation. The. Gaseous controlled fluidic throttling valve. 3,665,949, 5-30-72, Cl. 137-81.5.
 Rively, Clair M.: See—
 Petro, James; and Rively, Clair M., 3,663,793.
 Rively, Clair M.; and Petro, James, to Westinghouse Electric Corporation. Method for sculpturing an indicia or decorative design in the surface of an article with a beam of corpuscular energy. 3,701,880, 10-31-72, Cl. 219-121.00b.
 River, Charles, Foundation, The: See—
 Merrill, Edward W., 3,638,639.
 Merrill, Edward W., 3,659,600.
 Merrill, Edward W., 3,683,626.
 Rivera-Ortiz, Jose Manuel: See—
 Cancel, Luis E.; Rivera-Ortiz, Jose Manuel; and Garcia-Rivera, Francisco, 3,647,062.
 Rivers, Hubert M., to Calgon Corporation. Controlling the cooking process in pulp digestion by differential conductivity measurements. 3,679,543, 7-25-72, Cl. 162-49.000.
 Rivers, Richard D.; Byers, Thomas W.; and Fortener, Edward J., to American Air Filter Company, Inc. Pressure relief valve. 3,677,289, 7-18-72, Cl. 137-527.800.
 Rivers, Victor J.: See—
 deBruyn Kops, Paul F., Jr.; and Rivers, Victor J., 3,653,155.
 Rivers, Victor J., to Pemko Manufacturing Co. Automatic door bottom. 3,703,788, 11-28-72, Cl. 49-307.000.
 Rivers, William C., Jr. Transport vehicle. 3,695,471, 10-3-72, Cl. 214-515.000.
 Riverton Industries, Inc.: See—
 Reed, Jack L., 3,685,068.
 Riviers, Marie. Drawer divider and drawer organizer. 3,703,326, 11-21-72, Cl. 312-330.000.
 Rivilis, Mikhail Evseevich: See—
 Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratn, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Savelliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,719.
 Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratn, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Savelliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,720.
 Rivkin, Bernard W., to Scrambler and Seismic Sciences, Inc. Communication privacy system. 3,651,268, 3-21-72, Cl. 179-1.5.
 Rivkind, Leo E.; and Blum, Adolph, to Mearl Corporation, The. Apparatus for producing high expansion foam. 3,667,687, 6-6-72, Cl. 239-553.3.
 Rivoire, Andre, to Lux-Optical. Composite eyeglass frame. 3,664,734, 5-23-72, Cl. 351-83.
 Rivolier, Charles, to Societe Anonyme D.B.A. System for controlling the angular position of the headlights of a vehicle. 3,707,623, 12-26-72, Cl. 240-7.11j.
 Rix, Albert: See—
 Helmers, Helmut; Werner, Georg; and Rix, Albert, 3,664,480.
 Rix, Charles E.; and Mysels, Karol J., to Penick & Ford Limited, mesne. Method of treating glass fibers. 3,682,685, 8-8-72, Cl. 117-46.0ca.
 Rix, Frederick H.: See—
 Fast, Clarence R.; Rix, Frederick H.; and Duffield, Ernest L., Jr., 3,681,240.
 Rixson Inc.: See—
 Ellis, David H., 3,646,877.
 Gaysowski, Joseph J., 3,648,326.
 Morrison, Richard J.; Schlumpf, Arthur A.; and Martino, Albert J., 3,683,450.
 Roberts, Frank D., 3,665,996.
 Rizhsky Raion, Salaspils: See—
 Ioffe, Benjamin Alexandrovich; Kalnin, Robert Karlovich; Dorofeev, Vyacheslav Semenovich; Trushelis, Ivan Augustovich; Zheigur, Bruno Domenikovich; Rizhsky Raion, Salaspils; Ivanov, Anatoly Andreevich; and Preis, Vladimir Viktorovich, 3,661,298.

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 Rizzo, Bartolo, to Hasbro Industries, Inc. Dart construction. 3,672,678, 6-27-72, Cl. 273-106.50r.
 Rizzo, John J.: See—
 Blumbergs, John H.; Finley, Joseph H.; and Rizzo, John J., 3,637,609.
 Rizzo, Joseph Leo: See—
 Hager, Donald Gene; and Rizzo, Joseph Leo, 3,650,949.
 Rizzone, Michael L.: See—
 Ewing, Roy D.; and Rizzone, Michael L., 3,695,117.
 Rizzone, Michael L., to United States Steel Corporation. Piston rod joint. 3,704,904, 12-5-72, Cl. 287-125.000.
 RLR Chemical Company, Inc.: See—
 Schwartz, Leonard; Purcell, Harold K.; and Wieselmann, Jerome J., 3,674,688.
 RMI Company, mesne: See—
 Bomberger, Howard B., Jr.; and Kessler, Harold D., 3,646,175.
 Bomberger, Howard B., Jr.; and Seagle, Stanley R., 3,679,403.
 Ro-Band Corporation: See—
 Koelsch, Lester M., 3,638,828.
 Ro-Search, Incorporated: See—
 Auberry, Horace R.; and Liebscher, Anton, 3,659,301.
 Auberry, Horace R.; and Liebscher, Anton, 3,701,273.
 Kaufman, Curt E., 3,670,350.
 Roach, Albert F., Jr. Vandal resistive post. 3,667,405, 6-6-72, Cl. 109-51.000.
 Roach, Charles D., to United States of America, Army. Method for arresting propagating fractures in stressed-skin monocoque type of construction. 3,700,517, 10-24-72, Cl. 156-94.000.
 Roach, Heber C.: See—
 Roberts, James R.; and Roach, Heber C., 3,682,667.
 Roach, Jack W.; and Garwin, Leo, to Kerr-McGee Corporation. Solvation of coal in byproduct streams. 3,642,608, 2-15-72, Cl. 208-8.
 Roach, James D.: See—
 Boyd, Charles L.; and Roach, James D., 3,680,379.
 Roach, Joel K.: See—
 Richeson, William E., Jr.; and Roach, Joel K., 3,700,810.
 Roach, John R.: See—
 Norsby, Norrain E.; Kozlik, Robert F.; and Roach, John R., 3,694,229.
 Roach, Peter Francis; and Davidson, Daniel Fraser, to United Kingdom Atomic Energy Authority. Liquid metal monitors. 3,672,209, 6-27-72, Cl. 73-61.0lm.
 Roach, Ronald John; and Mitchell, Graham George, to Gramall Industries Proprietary Limited. Kinetic energy cisterns. 3,654,955, 4-11-72, Cl. 137-423.
 Road, Richard A.; and Schlatter, James H., to Duncan Electric Company, Inc. One piece meter current circuit. 3,657,651, 4-18-72, Cl. 324-137.
 Roaf, Robert; and Wright, John Thomas Matthew. Device for correcting scoliotic curves. 3,693,616, 9-26-72, Cl. 128-69.000.
 Roane, Asa E.: See—
 Upshur, Littleton; Franklin, Burton P.; Roane, Asa E.; and Wang, Kenneth Y., 3,650,419.
 Roano, Domenico: See—
 Salto, Rinaldo; and Roano, Domenico, 3,696,906.
 Roark, William G., to Phillips Petroleum Company. Method of increasing catalyst activity in sour crude catalytic reformers. 3,669,874, 6-13-72, Cl. 208-79.000.
 Roast, William George, to Lilly Industries, Ltd. Apparatus for delivering tablets and the like. 3,682,353, 8-8-72, Cl. 221-277.000.
 Robak, Edward, to Technicolor, Inc. Capstan scraper. 3,642,536, 2-15-72, Cl. 134-6.
 Robak, Edward, to Technicolor, Inc. Folding mirror and screen assembly. 3,704,054, 11-28-72, Cl. 350-123.000.
 Robapharm AG: See—
 Engel, Kurt, 3,682,933.
 Robaskiewicz, Gerald D.: See—
 Loshbough, Richard C.; and Robaskiewicz, Gerald D., 3,682,275.
 Robb, David D., to Iowa State University Research Foundation, Inc. System for starting induction motors with self-excitation. 3,646,415, 2-29-72, Cl. 318-229.
 Robb, Donald A.: See—
 Lindstrom, Barry E.; and Robb, Donald A., 3,667,493.
 Robb, Morse. Viewscope for the blind. 3,704,378, 11-28-72, Cl. 250-222.000.
 Robb, Robert E., to General Electric Company. Lamp ballast and method of producing same. 3,655,906, 4-11-72, Cl. 174-52.
 Robba, William A.; and Klasson, George A., to Air Products and Chemicals, Inc. and Pfizer Inc. Pyrolytic graphite nozzles and guide tubes for welding torches. 3,697,721, 10-10-72, Cl. 219-136.000.
 Robba, William A.; and Conabee, Earl E., to Pfizer Inc. Composite carbon insert for gas shielded welding torch nozzle. 3,698,646, 10-17-72, Cl. 239-591.000.
 Robbeloth, Edward T.: See—
 Hale, Everett W.; Hawkinson, Paul H.; and Robbeloth, Edward T., 3,672,653.
 Robbins & Myers, Inc.: See—
 Goebel, Robert W., 3,670,190.
 Markley, Joseph M., 3,659,686.
 Zimmer, George H., 3,643,877.
 Robbins, A. H., Company, Incorporated: See—
 Lerner, Irwin S., 3,633,574.
 Robbins, Alfred. Portable outdoor lighting fixture for mobile homes. 3,638,168, 1-25-72, Cl. 339-89.
 Robbins, Alfred. Recessed waterproof electrical connection box cover. 3,652,781, 3-28-72, Cl. 174-67.
 Robbins, Arthur M., to Uniform Tubes, Inc. Angular RF connector. 3,636,239, 1-18-72, Cl. 174-87.
 Robbins Aviation, Inc.: See—
 Guajardo, Ciro, 3,689,907.
 Robbins, Carl L., to Mead Johnson and Company. Dispensing and recording container. 3,678,884, 7-24-72, Cl. 116-121.000.
 Robbins, Clarence R.; Grey, Seymour; and Scott, George V., to Colgate-Palmolive Company. Form-setting deratin substrates by a chemical treatment involving a vinyl monomer. 3,634,022, 1-11-72, Cl. 8-127.51.
 Robbins, Clarence Ralph: See—
 Anzuino, Giuseppe; and Robbins, Clarence Ralph, 3,633,591.
 Robbins, Clyde F.: See—
 Dempsey, George A., Jr.; Koenig, Martin F.; and Robbins, Clyde F., 3,639,680.
 Halbeck, Werner B.; Quaal, John A.; and Robbins, Clyde F., 3,706,100.
 Halbeck, Werner B.; Quaal, John A.; Robbins, Clyde F.; Rutchik, Walter L.; and Ryzek, Lawrence J., 3,706,916.
 Robbins, Clyde F., to Cutler-Hammer, Inc. Compression mounted SCR clamp with heat sink means. 3,688,159, 8-29-72, Cl. 317-100.000.
 Robbins Company, The: See—
 Porter, Wilson B.; and Klein, Harold T. (said Klein assor. to), 3,695,364.
 Robbins, Edward: See—
 Lichtenstein, Harold; and Robbins, Edward, 3,682,407.
 Robbins, Ernest A.: See—
 Faith, William T., Jr.; Steigerwalt, Ronald B.; and Robbins, Ernest A., 3,697,285.
 Robbins, James L., to Brooks Products, Inc. Press forming machine. 3,671,156, 6-20-72, Cl. 25-45.000.
 Robbins, James S., and Associates, Inc.: See—
 Hattrup, John S., 3,653,716.
 Porter, Wilson B.; and Klein, Harold T. (said Porter assor. to), 3,695,364.
 Watson, Frank George; and Sugden, David Burnet, 3,640,077.
 Robbins, Jim, Seat Belt Company: See—
 Hibbard, Ronald J.; and Stoffel, Robert W., 3,632,056.
 Partridge, Gerald J., 3,664,599.
 Pringle, William L., 3,635,419.
 Stoffel, Robert W., 3,631,571.
 Stoffel, Robert W., 3,632,055.
 Stoffel, Robert W., 3,632,058.
 Stoffel, Robert W., 3,648,333.
 Stoffel, Robert W., 3,649,999.
 Robbins, John E., to USM Corporation. Multiple component mixers. 3,642,175, 2-15-72, Cl. 222-135.
 Robbins, John E.; Willbond, William F.; Tutt, Kingsley J.; Hall, Dennis S.; and Hanson, Raymond, to USM Corporation. Apparatus for moulding plastic articles. 3,663,139, 5-16-72, Cl. 425-147.
 Robbins, Kenneth W., to Sperry Rand Corporation. Short base-band pulse receiver. 3,662,316, 5-9-72, Cl. 340-167.
 Robbins, Lanny A., to Dow Chemical Company, The. Stable polyacrylamide dispersions. 3,657,176, 4-18-72, Cl. 260-29.6.
 Robbins, Larry H.: See—
 Fowler, Raymond L.; Parken, Edward W.; Robbins, Larry H.; and Woods, Joe W., 3,666,262.
 Robbins, Max L.: See—
 Geyer, Jerome; Hu, Shih-En; and Robbins, Max L., 3,655,558.
 Robbins, Max L.; and Brownawell, Darrell W., to Esso Research and Engineering Company. Microemulsion separation of organic compounds in liquid state. 3,641,181, 2-8-72, Cl. 260-674.
 Robbins, Murray; and Wolfe, Raymond, to Bell Telephone Laboratories, Incorporated. Ferrimagnetic semiconducting material and devices made therefrom. 3,640,864, 2-8-72, Cl. 252-62.3.
 Robbins, Murray, to RCA Corporation. Magnetic compositions. 3,676,082, 7-11-72, Cl. 23-367.000.
 Robbins, Neal R.; Ring, Howard Daniel; Wright, Gerard C.; Ceelen, Theodore M.; and Hotchkiss, Stuart E., to Xerox Corporation. Dual mode electrostatic printing. 3,686,678, 8-22-72, Cl. 346-74.0es.
 Robbins, Robert; Whitty, Arthur R.; and Kachavos, Louis J., to Sanders Associates, Inc. Antenna self-test systems. 3,697,876, 10-10-72, Cl. 325-67.000.
 Robbins, Robert G.: See—
 Petty, William F., 3,687,414.

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- Robbins, Wayne Otto, to Tubular Structures Corporation. Concrete pump. 3,639,086, 2-1-72, Cl. 417-454.
- Robbins, William Paul; and Bullock, Clifford Ralph. Closure for flexible container. 3,700,019, 10-24-72, Cl. 150-3.000.
- Robel & Company: *See*—
- Helgemeir, Heinrich. 3,638,578.
- Helgemeir, Heinrich. 3,662,687.
- Robel, Raymond B.; and Walsh, Richard M. Drainage collection container. 3,661,227, 5-9-72, Cl. 184-106.
- Robelen, Russell J.: *See*—
- Amdahl, Gene M.; Arnold, Richard F.; Dauber, Philip S.; Freiman, Charles V.; Robelen, Russell J.; Schorr, Herbert; and Wierzbicki, John R., 3,670,309.
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- Grandpierre, Robert; and Robert, Alexandre, 3,705,237.
- Robert, Andre: *See*—
- Smith, Leon; Calvert, David W.; Robert, Andre; and Viallet, Andre, 3,657,065.
- Robert, Henri R.: *See*—
- Blanc, Marie Jean Michel Paul; Ramis, Jean; and Robert, Henri R., 3,705,667.
- Robert, Jack: *See*—
- Bonneville, Robert; Rialland, Jean Francois; and Robert, Jack, 3,649,364.
- Robert, Louis: *See*—
- Le Febvre, Alfred B.; Masch, Helmut E. W.; Robert, Louis; and Morse, Hugh H., 3,648,573.
- Roberts & Porter, Inc.: *See*—
- Hawks, Ronald W., 3,675,573.
- Roberts, Arthur G.: *See*—
- Illman, Peter; and Roberts, Arthur G., 3,648,529.
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- Hall, Richard H.; Roberts, Carleton W.; Sikkema, Andrew J.; and Lawson, Junior J., 3,641,208.
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- Hill, Harvey J., 3,670,360.
- Holman, John G., 3,674,590.
- Payson, Buford L., 3,692,278.
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- Roberts, James Gordon, 3,640,430.
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- Applequist, James E.; Johnson, James E.; Okers, Clifford B.; Daniels, Donald V.; James, Richard N.; Roberts, Daniel M.; and Guzy, Daniel James, 3,688,656.
- James, Richard N.; Applequist, James E.; and Roberts, Daniel M., 3,644,922.
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- Roberts, David; and Nasarevich, Leo S., 3,650,280.
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- Congleton, David B.; Roberts, Donald L.; and Evans, Pat E., 3,701,999.
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- Jolley, Gordon B.; and Roberts, Durward T., Jr., 3,642,661.
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- Roberts, Frank D., to Rixson, Inc. Closure operator. 3,665,996, 5-30-72, Cl. 160-1.000.
- Roberts, Gary E.: *See*—
- Hepp, James A.; and Roberts, Gary E., 3,648,685.
- Roberts, Geoffrey L.: *See*—
- DeCardi, Pedro; Taylor, Carl S.; and Roberts, Geoffrey L., 3,680,885.
- Roberts, George C.: *See*—
- Vincent, Daniel B.; Vincent, Daniel A.; and Roberts, George C., 3,700,017.
- Roberts, George C.; and Dotson, Donald A., to Monogram Industries, Inc. Marine recirculating and holding tank. 3,675,774, 7-11-72, Cl. 210-167.000.
- Roberts, George Leathwhite, Jr.: *See*—
- Sheehan, Gerard Martin; Roberts, George Leathwhite, Jr.; and Dupree, Paul Montgomery, 3,658,566.
- Roberts, George S., to Big George, Inc. Process control circuitry. 3,699,363, 10-17-72, Cl. 307-308.000.
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- Beeman, James F.; Roberts, Glenn H.; and Smith, Charles W., 3,636,362.
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- Irani, Riyad R.; and Roberts, H. Evan, 3,671,644.
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- Mooth, Robert A.; Ciesla, Stanley F.; and Roberts, Hugh J., 3,644,332.
- Roberts Industries, Inc.: *See*—
- Pendergrass, Buford; Applequist, Quintin A.; and Snyder, Alan Howard, Jr., 3,664,717.
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- Cathers, Richard T.; Douglass, William M.; Hess, Frederick D., Jr.; Morris, John; and Roberts, James E., 3,666,211.
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- Roberts, James K.: *See*—
- Pouwels, Edward M.; and Roberts, James K., 3,677,610.
- Roberts, James R.; and Roach, Heber C., to United States Gypsum Company. High temperature insulation block. 3,682,667, 8-8-72, Cl. 106-67.
- Roberts, James S.: *See*—
- Ahrens, Robert H.; Bartlett, John A.; Roberts, James S.; Schipper, Pieter W.; and Mills, Roy, 3,649,108.
- Roberts, Joe R.; and Torrence, James L. Disposable pallet. 3,683,822, 8-15-72, Cl. 108-56.000.
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- Nunes, John; Geary, Arthur L.; and Roberts, John A., 3,704,877.
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- Roberts, John F.: *See*—
- Roberts, John F., 3,681,589.
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- Olson, Frank Wesley, Jr.; and Roberts, Karl Hutchenson, 3,658,985.
- Roberts, Karl Hutchenson: *See*—
- Olson, Frank Wesley, Jr.; and Roberts, Karl Hutchenson, 3,697,452.
- Roberts, Kent B.: *See*—
- Killion, Derling G.; and Roberts, Kent B., 3,696,433.
- Roberts, Lawrence B.: *See*—
- Lipp, George D.; Rahe, Villem; and Roberts, Lawrence B., 3,663,195.
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- Roberts, Leonard N., to Talley Frac Corporation. Liquid explosive containing a nitramine explosive dissolved in nitroparaffin. 3,663,324, 5-16-72, Cl. 149-90.000.
- Roberts, Leslie: *See*—
- Satterfield, Homer E.; Stottlemeyer, Keith D.; Brown, David L.; and Roberts, Leslie, 3,700,547.
- Roberts, Lloyd A. Hinge assembly. 3,682,348, 8-8-72, Cl. 220-32.
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- Bloomfield, Harold; and Roberts, Melvin F., 3,698,735.
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- Roberts, Paul G.: *See*—
- Borneman, Karl J.; Byler, Richard E.; Roberts, Paul G.; and Smalinskas, Steps, 3,706,240.
- Roberts, Peter R.: *See*—
- Roberts, John A.; and Roberts, Peter R., 3,698,863.
- Roberts, John A.; Roberts, Peter R.; and Kelly, James E., 3,699,768.
- Roberts, Raymond John: *See*—
- Wooding, Patrick J.; and Roberts, Raymond John, 3,684,001.
- Roberts, Reginald F.: *See*—
- Blanchard, Robert R.; Kennedy, James S.; and Roberts, Reginald F., 3,706,724.
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- Berthold, Robert V.; and Roberts, Rene M. J., 3,707,545.
- Roberts, Rene Marie-Joseph: *See*—
- Koleske, Joseph Victor; Roberts, Rene Marie-Joseph; and Del-Giudice, Frank Paul, 3,670,045.
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- Braun, Harvey A.; and Roberts, Richard J., 3,633,750.
- Roberts, Richard W.: *See*—
- Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K., 3,637,221.
- Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K., 3,697,162.
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- Roberts, Ronald William: *See—*
Morgan, Peter E.; and Roberts, Ronald William, 3,660,197.
- Roberts, Steven L.; and Miller, Edward J., Jr., to Westinghouse Electric Corporation. Interface apparatus for computer including an integrator circuit which operates to permit transfer between automatic and manual control. 3,668,379, 6-6-72, Cl. 235-183.
- Roberts, Theresa A.: *See—*
Brick, Edmund J., 3,675,528.
- Roberts, Thomas C.: *See—*
Kennedy, Frank; and Roberts, Thomas C., 3,672,486.
- Roberts, Thomas G.; Ehrlich, John J.; Hutcheson, Guilford J., Jr.; and Rust, Charles M. Continuous wave laser surgical device. 3,642,007, 2-15-72, Cl. 128-395.
- Roberts, Victor N. Wrench. 3,707,100, 12-26-72, Cl. 81-175.000.
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- Roberts, Webster C.: *See—*
Kolb, Edwin R.; Blaha, John F.; and Roberts, Webster C., 3,643,251.
Kolb, Edwin R.; Blaha, John F.; and Roberts, Webster C., 3,644,903.
Stanton, Arthur J.; Kolb, Edwin R.; and Roberts, Webster C., 3,670,632.
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- Roberts-Gordon Appliance Corporation: *See—*
Huyck, Robert T., 3,648,727.
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Berleyoung, Walter J., 3,649,421.
Berleyoung, Walter J., 3,661,661.
Branson, Charles D.; and Genbauffe, Francis S., 3,703,988.
Brooks, James; Drummond, Ralph E.; Heinz, Frank J.; and Chambers, William W., 3,671,762.
Brooks, James N.; and Chambers, William W., 3,633,657.
Caparone, Michael J.; and Dykzeul, Theodore J., 3,648,726.
Chambers, William W., 3,659,155.
Chambers, William W., 3,659,782.
Chambers, William W., 3,666,923.
Chambers, William W., 3,670,960.
Decker, Cloyd E., 3,668,592.
Fox, Raymond J., 3,693,874.
Freeby, LeRoy W., 3,683,304.
Genbauffe, Francis S., 3,642,200.
Genbauffe, Francis S., 3,692,239.
Genbauffe, Francis Simon, 3,647,146.
Good, Arthur L., 3,662,132.
Good, Arthur L., 3,683,962.
Goodhouse, Carl J.; and Strachan, Robert, 3,688,978.
Graham, Marvin M.; and Chambers, William W., 3,659,781.
Gunter, James C., 3,679,097.
Haskins, Lauren D.; and Kelly, Samuel T., 3,685,732.
Hild, Henry F.; Manecke, Siegfried E.; and Shaw, James L., 3,665,362.
Jackson, Wilbur F.; and Willson, James R., 3,664,582.
Katchka, Jay R., 3,685,730.
Katchka, Jay R., 3,642,029.
Katchka, Jay R., 3,682,382.
Katchka, Jay R.; Caparone, Michael J.; and Morris, Louis P., 3,691,501.
Katchka, Jay R., 3,704,854.
Keller, Anthony T., 3,666,161.
Kenyon, Fred V., 3,650,843.
Koegel, James H., 3,681,661.
Korsgren, Theodore Y., 3,668,347.
Kreuter, Kenneth G., 3,634,706.
Kreuter, Kenneth G.; and Berleyoung, Walter J., 3,661,164.
Kreuter, Kenneth G., 3,691,906.
McIntosh, Harold A.; Slocum, Gordon K.; and Koskolas, Nick J., 3,652,195.
McCrea, Alan F., 3,644,891.
McCrea, Alan F., 3,644,894.
McCrea, Alan F.; and Snively, Hugh V., 3,644,897.
McIntosh, Harold A.; Randolph, Hollis L.; Chambers, William W.; and Graham, Marvin M., 3,636,414.
McIntosh, Harold A., 3,643,913.
McIntosh, Harold A.; Dykzeul, Theodore J.; Slocum, Gordon K.; Rattan, William D.; and Murrell, Donald K., 3,662,949.
McIntosh, Harold A., 3,665,258.
McIntosh, Harold A., 3,671,838.
McIntosh, Harold A.; and Slocum, Gordon K., 3,684,168.
Myers, Ned C., 3,633,621.
Myers, Ned C., 3,688,064.
Myers, Neo, 3,687,290.
Niemand, Emil, 3,652,870.
Nisley, Larry V.; Mueller, Klaus P.; and Kreuter, Kenneth G., 3,693,706.
- Nurnberg, Richard K., 3,648,074.
- Palmer, Reed A.; and Fox, Raymond J., 3,649,154.
- Palmer, Reed A., 3,687,009.
- Perkins, Charles H., 3,683,949.
- Philbrick, Daniel W., 3,682,129.
- Puster, Louis M., 3,633,465.
- Puster, Louis M., 3,633,535.
- Puster, Louis M., 3,662,948.
- Puster, Louis M., 3,681,832.
- Puster, Louis M.; and Caldwell, Edward M., 3,685,789.
- Randolph, Hollis L.; and Graham, Marvin M., 3,682,188.
- Rattan, William D.; and McIntosh, Harold A., 3,655,163.
- Rattan, William D., 3,670,281.
- Riehl, Fred, 3,689,193.
- Rosenberg, David M.; and Manecke, Siegfried E., 3,665,363.
- Rosenberg, David M.; and Manecke, Siegfried E., 3,673,535.
- Rowley, Paul M., 3,632,909.
- Russell, William H., 3,668,372.
- Scott, Douglas R., 3,633,620.
- Scott, Douglas R., 3,635,645.
- Scott, Douglas R., 3,672,400.
- Scott, Douglas R., 3,672,792.
- Scott, Douglas R., 3,679,330.
- Scott, Douglas R., 3,690,629.
- Smith, Larry S., 3,633,605.
- Stegina, Joseph M.; Cumming, Edward Perry; and Korsgren, Theodore Y., 3,657,680.
- Strachan, Robert, 3,690,063.
- Tyler, Hugh J., 3,684,994.
- Tyler, Hugh J., 3,691,499.
- Willson, James R.; Krueger, Keith T.; Tyler, Hugh J.; and Jackson, Wilbur F., 3,634,803.
- Willson, James R.; and Krueger, Keith T., 3,645,443.
- Willson, James R.; and Carey, Donald W., 3,652,969.
- Willson, James R., 3,660,005.
- Wolfe, Denis G.; and Eicher, Gerald H., 3,685,729.
- Wright, John W., 3,643,863.
- Wysong, Robert D., 3,654,041.
- Zajac, Chester J., 3,633,050.
- Zajac, Chester J., 3,644,807.
- Robertshaw Controls Company, *mesne: See—*
Clubbe, Walter W., 3,636,383.
Martin, Stephen J., 3,662,112.
Martin, Stephen J., 3,683,365.
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Cvacho, Daniel S.; Lee, Harry W., Jr.; and Robertson, Field I., Jr., 3,637,064.
- Robertson, Frederick: *See—*
Bletcher, James H.; and Rauh, Jack K., 3,684,190.
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Bletcher, James H.; and Rauh, Jack K., 3,684,190.
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Curran, Robert E.; Robertson, Glenn D., Jr.; and Ketchpel, Richard D., 3,698,884.
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Andrews, John S., 3,698,695.
Curran, Bernard E.; Gartner, Rodney W.; and Lindner, Robert G., 3,690,987.
Dereich, John E.; Gleeson, James E.; and Earle, Glenn J., 3,693,548.

- Fork, Frank W., 3,676,568.
- Fork, Frank W., 3,701,837.
- Irvin, Donald G., 3,641,729.
- Payne, Harold J. W., 3,649,324.
- Sharp, Merle F., 3,669,821.
- Tischuk, Walter, 3,667,180.
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Bradford, James C.; Miller, Stephen H.; and Robertson, Jeffrey C., 3,700,188.
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Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,637,729.
Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,639,474.
Harrington, Joseph Kenneth; Kvam, Donald C.; Mendel, Arthur; and Robertson, Jerry E., 3,642,817.
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- Robertson, John C., to Stanley Works, The. Vertically mounted dispenser with slidable cover. 3,650,433, 3-21-72, Cl. 221-65.
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Walbeck, Calvin; Jacoby, John M.; Gepp, Carl E.; and Robertson, Louis A., 3,685,450.
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Robertson, Richard W., 3,673,722.
- Robertson, Mark Christian; and Bishop, Donald Lloyd, to Globe-Union Inc. Method of providing environmental protection for electrical circuit assemblies. 3,693,252, 9-26-72, Cl. 29-627.000.
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Maiste, Arved; and Robertson, Melvin F., 3,650,052.
Maiste, Arved; and Robertson, Melvin F., 3,664,348.
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Corbett, William Michael; Harrison, David; and Robertson, Michael Mundie, 3,661,501.
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Parker, Levi C.; and Robertson, Odes B., 3,668,112.
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Bailey, Robert C.; Estes, Harry A.; James, Glen S.; Klug, James R.; Montillon, Henry A.; Myring, Verne E.; Robertson, Orville H.; Sargeant, Blaine W.; and Sorensen, Neal E., 3,679,200.
- Robertson Photo-Mechanix, Inc.: *See—*
Mills, Thomas C.; and Gresens, Stanley T., 3,641,912.
Nothmann, Gerhard A., 3,679,308.
Nothmann, Gerhard A.; Sippel, Charles P., Jr.; and Bartky, Walter Scott, 3,689,150.
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James, Charles Fitzhugh; Robertson, Ralston Hodges, Jr.; and Warnock, Merville Lee, 3,660,729.
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Kemmer, Frank N.; Robertson, Reed S.; and Mattix, Rodney, 3,637,487.
Troscinski, Edwin S.; and Robertson, Reed S., 3,639,263.
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Kemmer, Frank N.; Robertson, Reid S.; and Mattix, Rodney D., 3,640,820.
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- Robertson, Richard W., to Robertson Manufacturing Company, Inc. Frame construction for displaying pictures and the like. 3,673,722, 7-4-72, Cl. 40-152.000.
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Smith, Brian Lawrence; and Robertson, Rodger William, 3,655,310.
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- Robertson, William E. Adjustable gymnastic bar supported by A-frames. 3,653,658, 4-4-72, Cl. 272-63.
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Kwiatkowski, George T.; Brode, George L.; and Robeson, Lloyd M., 3,658,938.
- Robicheaux, Warren J.: *See—*
Henning, John L., Jr.; and Robicheaux, Warren J., 3,702,134.
- Robicon Corporation: *See—*
Blackmond, Ronald C., 3,676,766.
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Bonis, Scott R.; Salzer, Thomas E.; and Robillard, David R., 3,635,333.
- Robillard, Edward G.: *See—*
Uhtenwoldt, Herbert R.; Hohler, Frederick A.; and Robillard, Edward G., 3,634,978.
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Juvonen, Toivo A.; and Robillard, Gene A., 3,693,374.
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Moore, Harold R.; Robin, Haral T.; and Wallace, William B., 3,688,233.
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Bonin, Yves; and Robin, Jean, 3,661,862.
Bonin, Yves; and Robin, Jean, 3,681,288.
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Vergne, Jean; Solaux, Leon; Robinet, Jean-Claude; and Lacroix, Philippe, 3,676,390.
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Buening, Jerome M.; Paulsen, Robert M.; and Robinette, Clifford A., 3,666,282.
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Robinette, Hillary, Jr., 3,706,791.
- Robins, A. H., Company, Incorporated: *See—*
Beauchamp, Robert Owens, Jr.; Ward, John Wesley; and Franko, Bernard Vincent, 3,699,230.
Cale, Albert Duncan, Jr.; and Jenkins, Herndon, 3,660,426.
Duncan, Robert Louis, Jr., 3,635,966.
Duncan, Robert Louis, Jr.; and Helsley, Grover Cleveland, 3,642,779.
German, Victor Frederick, 3,654,305.
German, Victor Frederick, 3,654,306.
Helsley, Grover Cleveland, 3,642,778.
Helsley, Grover Cleveland, 3,644,350.
Helsley, Grover Cleveland, 3,644,381.
Helsley, Grover Cleveland, 3,644,398.
Helsley, Grover Cleveland, 3,644,414.
Helsley, Grover Cleveland; and Boswell, Robert Frederick, Jr., 3,657,253.
Helsley, Grover Cleveland, 3,657,257.
Helsley, Grover Cleveland, 3,676,432.
Helsley, Grover Cleveland, 3,694,458.
Helsley, Grover Cleveland, 3,699,105.
Lunsford, Carl Dalton; Welstead, William John, Jr.; and Helsley, Grover Cleveland, 3,651,085.
Lunsford, Carl Dalton; Cale, Albert Duncan, Jr.; and Dawson, Norman David, 3,652,558.
Lunsford, Carl Dalton; and Cale, Albert Duncan, Jr., 3,696,104.
Welstead, William John, Jr., 3,642,803.
Welstead, William John, Jr., 3,654,304.

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- Robins Industries Corporation: *See—*
Post, Herman; Prigozy, Stephen; and Millie, Orrin, 3,680,774.
- Robins, Jack; and Harris, Harold B., to Atlas Chemical Industries, Inc. Method of producing dense oxidizer salt-fuel composition. 3,684,597, 8-15-72, Cl. 149-46.000.
- Robins, Janis, to Ashland Oil, Inc. Non-sticking sand mix for foundry cores. 3,632,844, 1-4-72, Cl. 260-18.
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Lawrenson, Jack; and Robinson, Albert Sidney, 3,658,501.
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- Robinson, Albert Sidney, to Pilkington Brothers Limited. Method for the manufacture of float glass. 3,647,407, 3-7-72, Cl. 65-30.
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- Robinson, Alfred G., III: *See—*
Hagemeyer, Hugh J., Jr.; and Robinson, Alfred G., III, 3,671,550.
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- Robinson, Allan B., to Mobil Oil Corporation. Bag support assembly. 3,698,155, 10-17-72, Cl. 53-390.000.
- Robinson, Arthur H., Jr., to Makrite, Inc. Unitary piercing punch device. 3,683,499, 8-15-72, Cl. 30-360.000.
- Robinson, Bernie E., to Milwaukee Valve Company, Inc. Tank truck safety valve. 3,665,946, 5-30-72, Cl. 137-68.
- Robinson, Brian; and Fillingham, Stephen Harvey, to I.W.S. Nominee Company Limited and Ciba Limited. Method of milling and resin treating keratinous fibers. 3,677,693, 7-18-72, Cl. 8-127.500.
- Robinson, Bruce R., to Xerox Corporation. Method and apparatus for electrostatically classifying toner particles. 3,662,884, 5-16-72, Cl. 209-129.
- Robinson, Charles. Cutting and/or creasing of sheet material. 3,645,155, 2-29-72, Cl. 83-663.
- Robinson, Charles A., to American Home Products Corporation. Intermediates for preparing semi-synthetic penicillins and methods of production. 3,654,266, 4-4-72, Cl. 260-239.1.
- Robinson, Charles A.; and Adams, Arthur C. Process for the preparation of sodium ampicillin. 3,669,957, 6-13-72, Cl. 260-239.100.
- Robinson, Charles A., to American Home Products Corporation. Process for producing α -amino penicillin intermediates. 3,678,037, 7-18-72, Cl. 260-239.100.
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- Robinson, Charles G., to Northwestern Steel and Wire Company. Apparatus for the continuous production of steel. 3,645,321, 2-29-72, Cl. 164-252.
- Robinson, Charles L.; and Clynnch, Frank, to Dresser Industries, Inc., mesne. Method of and apparatus for weakening ice for assisting an icebreaker. 3,632,172, 1-4-72, Cl. 299-13.
- Robinson, Charles W.; Merklin, Kenneth E.; and Finlayson, Francis D., to Marcona Corporation. Method and apparatus for loading slurries into vessels and eliminating the suspending liquid. 3,693,795, 9-26-72, Cl. 210-83.000.
- Robinson, Daniel E.; and Rubinstein, Solomon, to General Cable Corporation. Mounting bracket for switch or receptacle. 3,662,085, 5-9-72, Cl. 174-48.
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- Robinson, David Phythian, to U.S. Philips Corporation. Methods of manufacturing semiconductor devices. 3,650,019, 3-21-72, Cl. 29-571.
- Robinson, David Phythian; Beale, Julian Robert Anthony; Shannon, John Martin; Kerr, John Anthony; and Das, Mukunda Behari, to North American Philips Co., Inc. Method of making semiconductor devices. 3,653,978, 4-4-72, Cl. 148-1.5.
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- Robinson, David S., to Lear Siegler, Inc. Adjustable seat supporting assembly. 3,669,398, 6-13-72, Cl. 248-373.000.
- Robinson, David V., 1/5 to Rosini, Donald A. Aseptic packaging of foods. 3,643,586, 2-22-72, Cl. 99-234.
- Robinson, David W., to Grace, W. R., & Co. Thermally expanding vermiculite and other thermally expandable materials, utilizing said materials as carrier and the products thereof. 3,686,134, 8-22-72, Cl. 252-378.000.
- Robinson, Denis; Whelan, Richard Howard; Katz, Philip Harvey; and Montuori, Anthony George, to CPC International, Inc. Convenience package for the preparation of single-crust pies and the like. 3,682,663, 8-8-72, Cl. 99-192.000.
- Robinson, Donald: *See—*
Burns, William C.; Robinson, Donald; and Newberry, Sidney H., 3,692,670.
- Robinson, Donald E.: *See—*
Campbell, Kenneth C.; Robinson, Donald E.; Rhinehart, R. Russell; and Truesdale, Wade J., 3,707,588.
- Robinson, Donald F. Heated die carrier. 3,655,940, 4-11-72, Cl. 219-243.
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Chidgey, Alfred Leonard, 3,685,718.
- Robinson, Ernest K.: *See—*
McWhirter, John R.; and Robinson, Ernest K., 3,660,277.
- Robinson, Eugene S.: *See—*
Armstrong, Dale F.; McInteer, Bertus B.; Mills, Robert I.; Pojter, Robert M.; Robinson, Eugene S.; Rowley, John C.; and Smith, Morton C., 3,693,731.
- Robinson, Frank: *See—*
Betts, Max W.; and Robinson, Frank, 3,664,156.
Betts, Max William; and Robinson, Frank, 3,635,051.
Betts, Max William; and Robinson, Frank, 3,636,733.
Betts, Max William; and Robinson, Frank, 3,640,096.
Betts, Max William; and Robinson, Frank, 3,640,097.
Betts, Max William; and Robinson, Frank, 3,668,896.
Betts, Max William; and Robinson, Frank, 3,668,898.
Betts, Max William; and Robinson, Frank, 3,668,901.
Betts, Max William; and Robinson, Frank, 3,680,333.
Betts, Max William; and Robinson, Frank, 3,695,063.
Betts, Max William; and Robinson, Frank, 3,702,068.
- Robinson, Frank; and Chell, Frederick Nunnerley, to Courtaulds Limited. Knitting process. 3,685,316, 8-22-72, Cl. 66-64.000.
- Robinson, Franklin M.; and Anderson, Paul S., to Merck & Co., Inc. 2-Hydroxy-2,3,5-trimethyl-6,7-benzomorphan. 3,700,734, 10-24-72, Cl. 260-293.540.
- Robinson, Gene C., to Ethyl Corporation. Synthesis of gem-dihalocyclopropane compounds. 3,636,161, 1-18-72, Cl. 260-611.
- Robinson, George Henry, to Hygena Limited. Furniture construction. 3,674,327, 7-4-72, Cl. 312-257.000.
- Robinson, Gerald H.; and Strenglein, Harry F., to Sperry Rand Corporation. High frequency gyromagnetic device employing slot transmission line. 3,707,688, 12-26-72, Cl. 333-24.100.
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- Robinson, Greg D. Stringed musical instrument adapted for interchangeable bodies. 3,657,462, 4-18-72, Cl. 84-1.16.
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Chase, Eugene W.; and Robinson, Harold J., 3,668,089.
- Robinson, Hugh A.: *See—*
Carlson, John H.; Mansfield, Donald L.; and Robinson, Hugh A., 3,641,706.
- Robinson, Hugh A., to USM Corporation. Wave generator configurations. 3,667,320, 6-6-72, Cl. 74-640.000.
- Robinson, Jack B.: *See—*
Rohde, John J.; and Robinson, Jack B., 3,682,367.
- Robinson, Jacques D.: *See—*
Juhl, William G.; Robinson, Jacques D.; and Trafton, John G., III, 3,663,637.
- Robinson, James E.: *See—*
Condon, Eugene H.; Robinson, James E.; and Wills, James H., 3,666,594.
- Robinson, James E., to Kimberly-Clark Corporation. Process for the preparation of tissue-fiber laminates. 3,654,020, 4-4-72, Cl. 156-291.
- Robinson, James G. Aerial display sign. 3,683,530, 8-15-72, Cl. 40-215.000.
- Robinson, James J., to Valeron Corporation, The. Boring bar adjustment. 3,635,572, 1-18-72, Cl. 408-181.
- Robinson, Joel P.: *See—*
Maly, George P.; and Robinson, Joel P., 3,637,010.
- Robinson, John A., to Automation Industries, Inc. Noise gate for ultrasonic test apparatus. 3,690,156, 9-12-72, Cl. 73-67.900.
- Robinson, John C.; and Horn, Myron K., to Cities Service Oil Company. Neutron-absorption controller for neutron activation logging. 3,691,384, 9-12-72, Cl. 250-84.500.
- Robinson, John F., to North American Rockwell Corporation. Lapping of ball bearing raceway. 3,670,462, 6-20-72, Cl. 51-291.000.
- Robinson, John K.; and Voge, Hervey H., to Shell Oil Company. Dehydrogenation process over platinum on lithiated mordenite. 3,700,749, 10-24-72, Cl. 260-683.30r.
- Robinson, John L.; and Munnich, Robert F., to Philco-Ford Corporation. Combined modem and vocoder pipeline processor. 3,706,929, 12-19-72, Cl. 325-15.000.
- Robinson, Joseph D.; Loren, Jay D.; and Higdon, William T., to Shell Oil Company. Method for determining residual hydrocarbons present in a subterranean earth formation. 3,657,730, 4-18-72, Cl. 324-5.
- Robinson, Keith D.: *See—*
Pearson, Charles J.; Robinson, Keith D.; and Sassaman, William O., 3,639,748.
- Robinson, Keith D.; and Tremelin, James D. Method of preparing a container. 3,691,269, 9-12-72, Cl. 264-255.000.
- Robinson, Keith D., to Goodyear Tire & Rubber Company, The. Method of making shaped articles. 3,699,198, 10-17-72, Cl. 264-96.000.
- Robinson, Keith J.; and Pfisterer, Heinz A., to Polymer Corporation Limited. Impermeable polymeric compositions. 3,686,364, 8-22-72, Cl. 260-876.00b.
- Robinson, Kenneth Buckley: *See—*
Stanyon, Horace Edward; Robinson, Kenneth Buckley; and Beeson, Eric John George, 3,660,711.
- Robinson, Leroy E., to Phillips Petroleum Company. Blown film tube collapsing. 3,689,609, 9-5-72, Cl. 264-40.000.
- Robinson, Lorin A.: *See—*
Gresham, Clifford L.; and Robinson, Lorin A., 3,691,805.
- Robinson, Marquis B.: *See—*
Manion, Jean P.; Philosphos, John A.; and Robinson, Marquis B., 3,650,955.
- Robinson, Martin A.: *See—*
Hurley, Thomas J., Jr.; and Robinson, Martin A., 3,654,279.
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- Robinson, Max C.; and Wertheimer, Michael R., to Canadian Liquid Air Ltd., Air Liquide Canada Ltee. Paraelectric refrigerator. 3,650,117, 3-21-72, Cl. 62-3.
- Robinson, Morris D. Vehicle lift with railer hitch or the like. 3,638,811, 2-1-72, Cl. 214-77.
- Robinson, Morton; and Cripe, Donald M., to Hughes Aircraft Company. Method for preparing high quality rare earth and alkaline earth fluoride single crystals. 3,649,552, 3-14-72, Cl. 252-301.4.
- Robinson, Peter: *See—*
Campbell, Alastair; Robinson, Peter; and Tipping, James William, 3,661,788.
Campbell, Alastair; and Robinson, Peter, 3,676,507.
Jedrychowski, Jerzy L.; and Robinson, Peter, 3,706,947.
- Robinson, Peter John: *See—*
Allum, Keith George; Hancock, Ronald David; and Robinson, Peter John, 3,652,678.
Allum, Keith George; and Robinson, Peter John, 3,673,114.
- Robinson, Peter M.: *See—*
Brown, Warwick N.; and Robinson, Peter M., 3,645,491.
- Robinson, Peter Michael: *See—*
Brooke, Thomas Andrew; and Robinson, Peter Michael, 3,639,190.
- Robinson, Peter T., to Motorola, Inc. High speed machine for bonding frame leads to bonding pads on circuit chips. 3,698,985, 10-17-72, Cl. 156-379.000.
- Robinson, Philip W. Minor ingredient dispenser. 3,666,146, 5-30-72, Cl. 222-132.000.
- Robinson, Prentice I.: *See—*
Howard, Robert; Robinson, Prentice I.; and Menhennett, Herbert E., 3,703,949.
- Robinson, Ralph G., 1/3 to Anderson, LeRoy A. Planetary amusement ride. 3,707,282, 12-26-72, Cl. 272-36.000.
- Robinson, Ralph R. Angular curette. 3,635,222, 1-18-72, Cl. 128-304.
- Robinson, Ralph R. Intrauterine element. 3,659,596, 5-2-72, Cl. 128-130.
- Robinson, Ralph R. Vacuum curette. 3,670,732, 6-20-72, Cl. 128-297.000.
- Robinson, Ralph R. Shielded intrauterine device. 3,683,906, 8-15-72, Cl. 128-130.000.
- Robinson, Ramon H.; and Ramsel, Charles A., to Youngstown Sheet and Tube Company. Push arm. 3,638,694, 2-1-72, Cl. 144-34.
- Robinson, Ramon K.: *See—*
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- Robinson, Raymond A. System for measuring rotor blade vibration. 3,654,803, 4-11-72, Cl. 73-71.4.
- Robinson, Raymond C. V.; Hildick-Smith, Gavin; and Swindlehurst, Thomas, Jr., to Johnson & Johnson. Topical device for the therapeutic management of dermatological lesions with steroids. 3,632,740, 1-4-72, Cl. 424-28.
- Robinson, Raymond E., to Blaw-Knox Foundry & Mill Machinery, Inc. Strip tension sensing device. 3,674,193, 7-4-72, Cl. 226-100.000.
- Robinson, Richard A., to Searle, G. D., & Co. 4-Tert-butylphenylhydrazones of pyruvic acids. 3,666,801, 5-30-72, Cl. 260-518.
- Robinson, Richard H.: *See—*
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Meade, Robert M.; and Robinson, Richard H., 3,681,763.
- Robinson, Robert Anthony: *See—*
Newsom, Peter James; Smith, William G.; and Robinson, Robert Anthony, 3,637,460.
- Robinson, Robert C.: *See—*
McKibben, Charles W.; and Robinson, Robert C., 3,671,018.
- Robinson, Robert E.; and De Hoff, Ronald L., to Vanderbilt, R. T., Company, Inc. Process for preparing a mixture of 4-methyl- Δ -tetrahydrophthalic anhydrides as a curing agent. 3,647,701, 3-7-72, Cl. 252-182.
- Robinson, Robert E., to National Distillers and Chemical Corporation. Process for aromatic substitution. 3,670,034, 6-13-72, Cl. 260-623.00h.
- Robinson, Robert J.: *See—*
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- Robinson, Robert W., to British Steel Corporation, mesne. Radiation sensitive strip width measuring unit and split edge detector. 3,655,989, 4-11-72, Cl. 250-219.
- Robinson, Robert W., to Sperry Rand Corporation. Apparatus for linearizing a non-linear signal. 3,706,934, 12-19-72, Cl. 328-1.000.
- Robinson, Roland D.: *See—*
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- Robinson, Ronald A.; and Briggs, Benjamin R., to Purex Corporation, Ltd. Bleach having stable brighteners. 3,655,566, 4-11-72, Cl. 252-95.
- Robinson, Ronald F.: *See—*
Issue, Michael F.; Robinson, Ronald F.; Anderson, Paul L.; and Ziobrowski, Edwin P., 3,663,866.
- Robinson, Russell S.: *See—*
Zaid, Melvin; Soifer, Martin T.; Darigo, Julius; and Robinson, Russell S., 3,680,485.
- Robinson, Samuel M., to Samro Holdings Ltd. Lighting fixture unit. 3,692,993, 9-19-72, Cl. 240-10.000.
- Robinson, Seymour, to Hydrosonic Corporation. Ultrasonic tooth cleaning apparatus. 3,645,255, 2-29-72, Cl. 128-24.
- Robinson, Seymour. Ultrasonic dental hand-piece with detachable treatment tools. 3,703,037, 11-21-72, Cl. 32-58.000.
- Robinson, Stuart A., to Robinson Thread Co., Inc., The. Bobbin. 3,693,906, 9-26-72, Cl. 242-159.000.
- Robinson, Thomas, to Antoma (Hairdressing) Company Limited. Drive apparatus for print rollers for printing machinery. 3,665,275, 5-23-72, Cl. 318-261.000.
- Robinson, Thomas C.: *See—*
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- Robinson, Thomas C., to Tecna Corporation. Vas prosthesis for reversible sterilization. 3,699,957, 10-24-72, Cl. 128-1.00r.
- Robinson, Thomas E.: *See—*
Bartholomew, Gerald E.; Kostuch, Donald J.; Robinson, Thomas E.; and Rohland, William S., 3,697,951.
- Robinson, Thomas K., Jr.: *See—*
Stange, Klaus K.; and Robinson, Thomas K., Jr., 3,644,930.
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Robinson, Stuart A., 3,693,906.
- Robinson, Trevor Howard; Cameron, Alan William; and Fitz, Philip Jonn, to Marconi Company Limited, The. Triggerable pulse generators. 3,662,189, 5-9-72, Cl. 307-252.00l.
- Robinson, Vernon S. Chain saw guide. 3,680,607, 8-1-72, Cl. 143-32.00f.
- Robinson, Walter B., to New England Pressed Steel Company. Core assembly method. 3,657,797, 4-25-72, Cl. 29-432.
- Robinson, William D.: *See—*
Kane, Thomas G.; and Robinson, William D., 3,668,166.
- Robinson, William P. Drill bit seal assembly. 3,656,764, 4-18-72, Cl. 277-92.
- Robison, Billie J.: *See—*
Jackson, Weldon H.; Robison, Billie J.; and Hewlett-Packard Company, 3,661,758.
- Robison, Glenn W.: *See—*
Christie, John B.; Robison, Glenn W.; and Runquist, Raymond C., Jr., 3,684,868.
- Robison, Herbert D., 50% to Thiele, Edmund J. Combined tape dispenser and applicator. 3,707,426, 12-26-72, Cl. 156-527.000.
- Robison, James W.; and Eads, Harold L., to Ames, O.; division of McDonough Company. Hedge Shears. 3,676,930, 7-18-72, Cl. 30-257.000.
- Robison, Robert S.: *See—*
Aszalos, Adorjan; Robison, Robert S.; Pansy, Felix; and Berk, Bernard, 3,632,749.
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- Robitschek, George Conrad, to RCA Corporation. Transducing head mount apparatus. 3,668,668, 6-6-72, Cl. 340-174.10e.

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- Roblin, John M.; Cole, Frank J.; and Reed, William A., to Republic Steel Corporation. Vaporization of metal for vacuum metalizing. 3,672,327, 6-27-72, Cl. 118-48.000.
- Roblin, John M.; Cole, Frank J.; and Reed, William A., to Republic Steel Corporation. Apparatus and method for vaporizing molten metal. 3,690,638, 9-12-72, Cl. 266-34.00r.
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- Robottom, Philip Amos, to Stibbe Machinery Limited. Patterning devices for circular knitting machines. 3,641,787, 2-15-72, Cl. 66-50.
- Robra, Helmut: *See—*
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- Robrecht, Charles J.; and Wyman, John S., Jr., to Bendix Corporation, The, mesne. Disposable air sampling filter cassette. 3,693,410, 2-26-72, Cl. 73-28.000.
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- McIlroy, Peter, II, 3,670,369.
- Robson, George E.: *See—*
- Fryc, Oldrich; Okada, David T.; and Robson, George E., 3,638,353.
- Gunther, Gregory M.; Lewis, J. Stephen; Nishiguchi, Masakatsu; Robson, George E.; Wagner, Raymond P.; and Yarbrough, William R., 3,696,552.
- Lewis, J. Stephen; Sapkus, Jurgis; Antell, Earl O.; and Robson, George E., 3,699,715.
- Robson, George E., to Mattel, Inc. Rubber band motor for toys. 3,656,586, 4-18-72, Cl. 185-37.000.
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- Robson, Harry Edwin, to Esso Research and Engineering Company. Process for preparing a synthetic crystalline zeolite. 3,674,425, 7-4-72, Cl. 23-113.000.
- Robson, Homer L., to Olin Mathieson Chemical Corporation. Spray formed sodium nitrate. 3,635,837, 1-18-72, Cl. 252-397.
- Robson, Peter; and Hardy, Frederick Edward, to Procter & Gamble Company, The. N-halogenated sulfonic acids and alkali metal salts thereof. 3,654,348, 4-4-72, Cl. 260-508.
- Robugen G.m.b.H.: *See—*
- Gauri, Kailash Kumar, 3,642,771.
- Robustelli, Albert George: *See—*
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- Rocchi, Aldo, to Montecatini Edison S.p.A. Liquid dielectric composition of alkyl benzene and an antioxidant stabilizer. 3,673,093, 6-27-72, Cl. 252-63.700.
- Rocchini, Albert G.; and Trautman, Charles E., to Gulf Research & Development Company. Electrical insulating oil. 3,640,868, 2-8-72, Cl. 252-63.
- Roch, Gerald V., to Hurco Manufacturing Company, Inc. Automatic shearing method and apparatus. 3,691,887, 9-19-72, Cl. 83-277.000.
- Rocha, John Gonsalves, to Maremont Corporation. Machine gun having dual feeding means for selectively feeding cartridges. 3,680,432, 8-1-72, Cl. 89-33.0sf.
- Rochat, Alain Claude: *See—*
- Weis, Claus Dieter; and Rochat, Alain Claude, 3,687,996.
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- Roche, Andre; Amanrich, Robert; and Cousserans, Gilbert, to Azote et Produits Chimiques S.A. Process for the separation of mixtures of phosphoric and nitric acid. 3,667,904, 6-6-72, Cl. 23-107.
- Roche, Andre. Spray-gun control. 3,674,182, 7-4-72, Cl. 222-193.000.
- Roche, James F.: *See—*
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- Roche, John M.; and Sawyer, Rene C., Jr., to Perkin-Elmer Corporation, The. Scanning monochromators. 3,659,945, 5-2-72, Cl. 356-100.
- Roche, William J., to Sylvania Electric Products, Inc. Resonator bal-last for arc discharge lamps. 3,676,735, 7-11-72, Cl. 315-207.000.
- Rocheport, Joseph J. F., to Quebec Cartier Mining Company. Power distributing system. 3,691,321, 9-12-72, Cl. 191-44.100.
- Rocheleau, David O.: *See—*
- Farley, Rene; and Rocheleau, David O., 3,697,663.
- Rocheleau, Harold Thomas: *See—*
- Vigh, Michael Walter; and Rocheleau, Harold Thomas, 3,661,641.
- Rochell, David: *See—*
- Saunders, Leonard Victor John; and Rochell, David, 3,686,826.
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- Rochelle, William R.; and Wycoff, Ronald Lee, to Brown & Root, Inc. Jacket pile clean-out apparatus. 3,646,947, 3-7-72, Cl. 134-167.
- Rochelmeyer, Hans: *See—*
- Eich, Eckart; and Rochelmeyer, Hans, 3,704,233.
- Rochelt, Gunter. Quick-change picture mount. 3,654,719, 4-11-72, Cl. 40-156.
- Rocher, Edouard Y.; and Schuster, Stanley E., to International Business Machines Corporation. Multipath encoder-decoder arrangement. 3,657,699, 4-18-72, Cl. 340-146.1.
- Rocher, George, to Metallurgical Exoproducts Corporation. Nozzle for a pouring ladle. 3,651,998, 3-28-72, Cl. 222-488.
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- Rhoades, Lee A.; and Mallard, Manley T., 3,681,514.
- Rochester Gauges, Inc.: *See—*
- Taylor, Carl C., 3,688,795.
- Rochet, Jean. Methods of making incandescent lamps. 3,685,881, 8-22-72, Cl. 316-19.000.
- Rochla, Kurt, to Windmoller & Holscher. Apparatus for forming heat-sealed end seams in tube sections of plastics material. 3,640,794, 2-8-72, Cl. 156-583.
- Rochling, Hans: *See—*
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- Rochon, Donald J.; and Sargent, Ellsworth B., to Tyee Construction Company. Crane with telescopic boom. 3,648,850, 3-14-72, Cl. 212-55.
- Rochow, Eugene G. Method for preparing alkoxy derivatives of silicon, germanium, tin, thallium and arsenic. 3,641,077, 2-8-72, Cl. 420-429.
- Rochow, Stephen Eugene: *See—*
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- Rochte, Jerry E.; Martin, Donald N.; Hoffa, Jack L.; and Moore, George V., to Beckman Instruments, Inc. Automated chemical analyzer. 3,645,690, 2-29-72, Cl. 23-230.
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- Vance, Richard Vernon; Rock, Arthur Orville; and Carr, Paul Walter, 3,654,081.
- Rock, Edward J.: *See—*
- Bjorksten, Johan; and Rock, Edward J., 3,707,367.
- Rock, Edward M.; Loughman, Joseph F., Jr.; and Mc Manus, Ann, to Harcourt Brace Jovanovich, Inc. Combination carrying carton and display stand. 3,670,872, 6-20-72, Cl. 206-44.00r.
- Rock, Erich, to Blum, Julius, Messrs. Connector for plates. 3,676,898, 7-18-72, Cl. 24-73.0pd.
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- Abrahams, Joseph L., 3,703,212.
- Rock, Frank C., to National Controls, Inc. Digital scale and method. 3,653,013, 3-28-72, Cl. 340-204.
- Rock, Salvatore J. Pre-tied necktie rack. 3,677,414, 7-18-72, Cl. 211-13.000.
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- Rock, William A.; and Valleroy, Gustave J., to Cornnats, Inc. Method of producing a potato snack product. 3,681,084, 8-1-72, Cl. 99-104.000.
- Rock, William A., to Wagner Electric Corporation. Information recorder. 3,683,399, 8-8-72, Cl. 346-7.000.
- Rocka, Arthur J. Fishing rod and reel storage device. 3,653,144, 4-4-72, Cl. 43-54.5.
- Rockaway Corporation: *See—*
- Varga, Leroy M.; and Voorhees, Thomas L., 3,702,146.
- Rockefeller, Roger R.: *See—*
- Meissner, Hans Walter; and Rockefeller, Roger R., 3,689,780.
- Rocker, Hermann: *See—*
- Brinkmeier, Friedhelm; and Rocker, Hermann, 3,650,087.
- Kratzer, Friedrich; and Rocker, Hermann, 3,631,770.
- Rocket Research Corporation: *See—*
- Eggers, Robert F.; and Emmons, Donald L., 3,695,041.
- Forsythe, Alan K., 3,640,645.
- Galbraith, Lyle D.; and Thron, William E., 3,640,083.
- Galbraith, Lyle D., 3,684,404.
- Rockey, Robert E.: *See—*
- Mullersman, Ferdinand H.; and Rockey, Robert E., 3,665,285.
- Rockford Iron Works Inc.: *See—*
- Provi, Mike A., 3,646,883.
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- Ott, Robert W., Jr., 3,682,362.
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- Rockliff, Peter, to Moisture Control and Measurement Limited. Electrical hygrometers. 3,683,243, 8-8-72, Cl. 317-246.000.
- Rocks, Eugene S.; and Poff, Thomas J., to Sperry Rand Corporation. Light emitting semiconductor radial array. 3,641,400, 2-8-72, Cl. 317-234.
- Rockson, Thomas: *See—*
- Lester, Robert W.; and Rockson, Thomas, 3,635,588.
- Rockson, Thomas. Sterilizing hand dryer. 3,667,134, 6-6-72, Cl. 34-60.000.
- Rockstroh, Horst: *See—*
- Thiele, Heinz; Becker, Dietrich; Hochstein, Roland; Rockstroh, Horst; and Lieckfeldt, Hans, 3,701,309.
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- Rockwell, Adelbert W., Jr., to USM Corporation. Automatic actuating mechanism. 3,672,315, 6-27-72, Cl. 112-219.000.
- Rockwell, Harvey W.; and Carlson, Marvin J., to Allis-Chalmers Manufacturing Company. Loader with ejector type bucket. 3,642,160, 2-15-72, Cl. 214-767.
- Rockwell, Harvey W.; and Poore, Wesley A., to Allis-Chalmers Manufacturing Company. Tilt compensation linkage for tilting bulldozer moldboard. 3,653,450, 4-4-72, Cl. 172-803.
- Rockwell, Lowell K.: *See—*
- Brawner, William H.; Gunsalus, Claude A.; and Rockwell, Lowell K., 3,698,337.
- Rockwell Manufacturing Company: *See—*
- Bake, Earl A., 3,643,914.
- Bake, Earl A.; Pool, Eldert B.; Hankosky, Andrew; Milleville, Bertram J.; and Fowler, John Hyde, 3,685,536.
- Bosten, Donald R.; and Rusnak, Michael, 3,696,693.
- Fowler, John H.; and Barnett, Robert D., 3,696,831.
- Gestler, David J.; Kovats, Zoltan; and Kolakowski, Alfred W., 3,685,353.
- Hall, George D., 3,686,524.
- Hedges, Robert H., 3,678,948.
- Herd, David P., 3,678,996.
- Koehler, Heinrich P., 3,650,336.
- Koehler, Heinrich P., 3,685,594.
- Lunt, William G., 3,682,490.
- McMahon, Richard A.; Lee, Winston F. Z.; and Painley, Elmer F., 3,701,277.
- Painley, Elmer F., 3,688,091.
- Pettigrew, David D., 3,702,740.
- Schwartzbart, Harry; and Douth, Robert Albert, 3,684,239.
- Sundby, Gustav B., 3,646,893.
- Taylor, Robert W.; and Sellers, Jerry W., 3,699,655.
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- Johnes, Alfred W.; Murtland, James B., Jr.; and Rockwell, Perry Marvin, 3,649,816.
- Rod, Trygve R.; and Evans, Thomas S., to Xerox Corporation. Quick change labeling head. 3,687,347, 8-29-72, Cl. 226-74.000.
- Rod, Vladimir; Bazant, Vladimir; and Sir, Zdenek, to Ceskoslovenska akademie ved. Method of preparing ammonium terephthalate by isomerization, or disproportionation of potassium salts derived from benzene-carboxylic acids. 3,694,497, 9-26-72, Cl. 260-515.0p.
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- Roda, Luigi, 3,688,948.
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- Kortge, Jerry W.; and Rodaer, James A., 3,671,751.
- Rodal, David R.: *See—*
- Van Heeckeren, Jacob; Rodal, David R.; and Markevitch, Bob V., 3,697,149.
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- Forlani, Franco; and Rodari, Gianpiero, 3,691,401.
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- Rode, John E., to Temper Corporation. Load responsive device and method of making. 3,659,814, 5-2-72, Cl. 248-23.
- Rode, Ludwig: *See—*
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- Rodeaud, Jacques: *See—*
- Zelter, Zelmen; Delort-Laval, Jean; Lassonnery, Jean; and Rodeaud, Jacques, 3,632,351.
- Rodefelf, Siegfried: *See—*
- Von Weel, Ernst; and Rodefelf, Siegfried, 3,689,032.
- Rodeghiero, Reno Antonio: *See—*
- Schletzbaum, John Wayne; and Rodeghiero, Reno Antonio, 3,667,496.
- Rodemann, Alfred H.: *See—*
- Mohon, Windell N.; and Rodemann, Alfred H., 3,700,302.
- Rodenbeck, Jorg, to Olympia Werke AG. Hand microphone for sound recording and reproducing instruments with AC switching. 3,636,271, 1-18-72, Cl. 179-100.1.
- Rodenburg, Margaret L.: *See—*
- Binning, Robert C.; Parts, Leo P.; Peresie, Robert J.; and Rodenburg, Margaret L., 3,699,210.
- Rodenko, Fedor Leontievich: *See—*
- Portyanko, Andrei Ivanovich; Lastovenko, Valentin Andreevich; Dudka, Viktor Vasilievich; Rodenko, Fedor Leontievich; Onischenko, Grigory Ivanovich; Vatkin, Adolf Semenovich; Pokusa, Alexei Alexandrovich; and Ruzin, Ivan Mikhailovich, 3,654,997.
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- Levy, Alan A.; Rodger, Mitchell N.; and Breach, Geoffrey D., 3,671,629.
- Rodgers, Charley R.: *See—*
- Carpenter, David W.; and Rodgers, Charley R., 3,700,762.
- Rodgers, Clive Douglas: *See—*
- Coackley, Robert; Reynolds, Michael Leslie; and Rodgers, Clive Douglas, 3,641,345.
- Rodgers, David P.: *See—*
- Olsen, Robert W.; Rodgers, David P.; and Viehmann, George A., 3,631,790.
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- Rodgers, Franklin A., to Pactide Corporation. Stacked microporous vapor permeable membrane distillation system. 3,650,905, 3-21-72, Cl. 203-10.
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- Rodgers, Franklin A., to Pactide Corporation. Self-limiting electrolytic heater. 3,685,259, 8-22-72, Cl. 55-198.000.
- Rodgers, James A., to Quaker Oats Company, The. Jack-in-the-box sounder. 3,691,675, 9-19-72, Cl. 46-118.000.
- Rodgers, John J., to White Motor Corporation. Motor vehicle with air flow deflector. 3,696,732, 10-10-72, Cl. 98-2.140.
- Rodgers, John Leo, to American Cyanamid Company. Synergistic U.V. absorber combination for polypropylene-polyvinylpyridine blend. 3,641,213, 2-8-72, Cl. 260-895.
- Rodgers, Leonard R. Spare wheel carrier for supporting tongue of trailer. 3,655,220, 4-11-72, Cl. 280-475.
- Rodgers, Loyal J.: *See—*
- Tack, Carl E.; and Rodgers, Loyal J., 3,646,604.
- Rodgers, Robert A.: *See—*
- Derrickson, Charles, Jr.; and Rodgers, Robert A., 3,669,488.
- Rodgers, Swain: *See—*
- Spicer, Oliver V., 3,647,124.
- Rodgers, Thomas A.: *See—*
- Hardesty, Donald E.; and Rodgers, Thomas A., 3,677,932.
- Rodgers, Warren: *See—*
- Griffin, Thomas S.; Rodgers, Warren; and Trampier, Charles R., Jr., 3,681,101.
- Olmsted, Lester E.; Puetz, Eckard J.; and Rodgers, Warren, 3,660,021.
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- Rodi, Fritz, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of ferromagnetic chromium dioxide. 3,696,039, 10-3-72, Cl. 252-62.510.
- Rodin, Roman Andrianovich; and Oljunin, Vasily Vasilievich. Apparatus for washing lumpy non-metallic materials. 3,652,335, 3-28-72, Cl. 134-66.
- Rodionova, Galina Sergeevna: *See—*
Chepigo, Sergei Vladimirovich; Belenky, Solomon Iosifovich; Somov, Vsevolod Sergeevich; Voronkov, Vasily Gerasimovich; Belavsky, Mikhail Alexandrovich; Korotaev, Oleg Georgievich; Rodionova, Galina Sergeevna; Maximenko, Nikolai Spiridonovich; Glazman, Bori Aronovich; Belova, Larisa Alexandrovna; and Vorobiova, Galina Ivanovna, 3,654,084.
- Rodite, Robert R. R.: *See—*
Elmgren, Jarl A.; and Rodite, Robert R. R., 3,669,871.
- Rodler, Waldo E., Jr. Powered steered wheel assembly and motor vehicle employing same. 3,642,083, 2-15-72, Cl. 180-31.
- Rodley, Frederick T., to Hoerner-Waldorf Corporation. Reinforced bottom bag. 3,682,372, 8-8-72, Cl. 229-55.000.
- Rodriguez, Herman Robert; and de Stevens, George. 1,3-Benzodiazepines. 3,681,340, 8-1-72, Cl. 260-239.0bd.
- Rodriguez, Herman Robert; and De Stevens, George, to Ciba-Geigy Corporation. 2,4-Benzodiazepines. 3,696,093, 10-3-72, Cl. 260-239.0bd.
- Rodriguez, Herman Robert; and deStevens, George, to Ciba-Geigy Corporation. 2,4-benzodiazepines used as antihypertensive agents. 3,706,830, 12-19-72, Cl. 424-244.000.
- Rodriguez, Jaime, to Ashland Oil, Inc. Process for modifying hydroxyl-containing alkyds and polyesters in water dispersion. 3,639,315, 2-1-72, Cl. 260-22.
- Rodriguez, Juan A.: *See—*
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- Rodriguez, Juan A.; and Monroe, Roger A., to Storage Technology Corporation. Dynamic amplitude control for magnetic tape systems. 3,662,365, 5-9-72, Cl. 340-174.1.
- Rodriguez, Manuel F., to Mobil Oil Corporation. Tanker construction. 3,631,832, 1-4-72, Cl. 114-74.
- Rodriguez, Mercedes. Measuring scoop and spoon combination. 3,690,182, 9-12-72, Cl. 73-429.000.
- Rodriguez, Jorge. Leaching process. 3,695,849, 10-3-72, Cl. 23-270.000.
- Rodth, Joseph J., to Coca-Cola Company, The, mesne. Beverage dispenser for metering a plurality of liquids. 3,640,433, 2-8-72, Cl. 222-129.2.
- Rodwell, John; and Marsden, Harry, to Tennis Unlimited Incorporated. Apparatus for raising and lowering a tennis court net. 3,645,370, 2-29-72, Cl. 194-9.
- Rodwin, Stephen Anthony, to Dominion Engineering Works, Limited. Web drying. 3,633,284, 1-11-72, Cl. 34-114.
- Rodwin, Stephen Anthony, to Dominion Engineering Works, Limited. Integrated drying processes and apparatus. 3,668,785, 6-13-72, Cl. 34-14.000.
- Rodwin, Stephen Anthony; and Shuffler, Eustace Cosmo, to Dominion Engineering Works, Limited. Sonic drying of webs. 3,694,926, 10-3-72, Cl. 34-69.000.
- Rody, Jean: *See—*
Kirchmayr, Rudolf; Heller, Hansjorg; and Rody, Jean, 3,642,813.
- Kirchmayr, Rudolf; Heller, Hansjorg; and Rody, Jean, 3,646,054.
- Kirchmayr, Rudolf; and Rody, Jean, 3,686,202.
- Rodzen, Richard A.: *See—*
Marcum, Alfred L., Jr.; Burns, Marvin; and Rodzen, Richard A., 3,705,426.
- Roe, George Ryburn; Sheehan, Gerard Martin; and Knapp, Donald Edward. Titanium dioxide pigments. 3,649,323, 3-14-72, Cl. 106-300.
- Roe, Harry L., Jr.: *See—*
Maieron, Theodore; Roe, Harry L., Jr.; and Williams, James E., 3,703,254.
- Roe, Jonas L.: *See—*
Bentley, George L.; and Roe, Jonas L., 3,684,098.
- Roe, Leslie A. Suspension system for vehicles. 3,679,017, 7-25-72, Cl. 180-73.01.
- Roe, Lewis P. Gas washer apparatus. 3,645,070, 2-29-72, Cl. 55-230.
- Roe, Malcolm David: *See—*
Edwards, John David; Perkins, Leonard; Donald, John Henry; Chappell, Peter Lee; Newcombe, Sean Benjamin; and Roe, Malcolm David, 3,697,729.
- Roe, Rene Pierre Victor; and Thiriot, Gerard, to Ugine Kuhlmann. Polynuclear amines and process for the preparation thereof. 3,646,005, 2-29-72, Cl. 260-508.
- Roe, Richard F.: *See—*
Moss, James R.; Roe, Richard F.; Coubrough, Lawrence E.; and Buck, Robert W., 3,697,836.
- Roerber, Henry William: *See—*
Regec, John Jacob; and Roerber, Henry William, 3,667,331.
- Roebuck, James J. Trolly storage reel. 3,670,987, 6-20-72, Cl. 242-118.400.
- Roebuck, Malcolm J., to First National Bank in Peru, mesne. Button assembly apparatus. 3,643,530, 2-22-72, Cl. 79-5.
- Roeder & Spengler OHG: *See—*
Spengler, Ernst Maximilian, 3,703,118.
- Roeder, Georg; and Ginsberg, Heinz, to Messer Griesheim G.m.b.H. Torch holding latching arrangement. 3,638,864, 2-1-72, Cl. 239-280.5.
- Roeder, George K. Downhole pump assembly having engines spaced apart by a production pump. 3,650,640, 3-21-72, Cl. 417-396.
- Roeder, George K. Downhole hydraulic pump and engine improvements. 3,703,926, 11-28-72, Cl. 166-106.000.
- Roeder, Gordon A.; and Dailey, William H., to Steel Company of Canada Limited, The and Metallgesellschaft Aktiengesellschaft. Controlled slag flow in an electric arc furnace. 3,689,250, 9-5-72, Cl. 75-12.000.
- Roeder, Gordon Alan: *See—*
Sibakin, Jaroslav George; Roeder, Gordon Alan; and Hookings, Paul Henry Heathcote, 3,690,867.
- Roeder, Harold H.; and Roeder, Marcia A. Educational testing and instructional device. 3,696,526, 10-10-72, Cl. 35-9.00e.
- Roeder, Marcia A.: *See—*
Roeder, Harold H.; and Roeder, Marcia A., 3,696,526.
- Roeder, Paul J.: *See—*
Hoogendorn, Helen M.; Narken, Bernt; Roeder, Paul J.; and Sunners, Brian, 3,678,211.
- Roeder, Robert J., to Kimberly-Clark Corporation. Sanitary napkin with improved adhesive fastening means. 3,672,371, 6-27-72, Cl. 128-290.00r.
- Roeder, Robert J., to Kimberly-Clark Corporation. Method for applying pressure sensitive adhesive to sanitary napkins. 3,674,595, 7-4-72, Cl. 156-306.000.
- Roeder, Robert S., to Sperry Rand Corporation. Radiometer detector circuit. 3,634,767, 1-11-72, Cl. 325-363.
- Roeder, Robert S., to Sperry Rand Corporation. Radiometer modulator-demodulator system. 3,653,045, 3-28-72, Cl. 343-100.
- Roederer, Charles: *See—*
Dumont-Fillon, Jacques; and Roederer, Charles, 3,665,085.
- Roeh, Arthur P.: *See—*
Kilian, Douglas C.; and Roeh, Arthur P., 3,633,888.
- Roehr, George L. Molding apparatus with positive collapse core. 3,660,001, 5-2-72, Cl. 425-396.
- Roeller, Erhart P. Multi-indicator setup gauge. 3,699,659, 10-24-72, Cl. 33-172.00r.
- Roemer, Benjamin C., to Trueflight Mfg. Co., Inc. Ice fishing tip-up. 3,645,029, 2-29-72, Cl. 43-17.
- Roemer, Frithjof: *See—*
Pohlemann, Heinz; Roemer, Frithjof; and Swoboda, Johann, 3,634,371.
- Roemer, Sidney: *See—*
Ringel, Samuel Morris; Roemer, Sidney; Gutt, Ann Lee; and Peterson, John E., 3,651,216.
- Roemer, Whitelaw C., to Eastman Kodak Company. Process for the production of integrally formed, random dot photographic images. 3,655,381, 4-11-72, Cl. 96-33.
- Roemke, Lowell W. Pneumatic deicer periphery bleeder. 3,690,601, 9-12-72, Cl. 244-134.00a.
- Roepenack, Horst; Nowak, Dieter; and Ploger, Fritz, to NUKEM, Nuklear-Chemie und-Metallurgie Gesellschaft mit beschränkter Haftung. Apparatus for lubrication of compression tools for powder metallurgical purposes. 3,676,030, 7-11-72, Cl. 425-78.000.
- Roesch, Christian, to Sutton Engineering Company. Roller leveler with adjustable flattening section. 3,701,274, 10-31-72, Cl. 72-165.000.
- Roesch, Egon: *See—*
Popelak, Alfred; Lerch, Ansgar; Stach, Kurt; Roesch, Egon; and Hardebeck, Klaus, 3,665,002.
- Roesch, Kurt Fritz: *See—*
Harker, Royce Kenneth; Prickett, Warren Wilson; and Roesch, Kurt Fritz, 3,669,323.
- Roeschlaub, Ronald C., to Ironite Products Co., Inc. Roller-type expander tool. 3,683,658, 8-15-72, Cl. 72-119.000.
- Roeschlein, Eugene R.; Weiss, Donald C.; and Zeph, David L., to United States of America, Navy. Digital delay time compression circuit. 3,656,096, 4-11-72, Cl. 340-5.
- Roeschlein, Eugene R., to United States of America, Navy. Dual delayed sequence generator with read only memory control for 256 output triples for plane and spherical wave-front simulations. 3,700,780, 10-24-72, Cl. 35-10.400.
- Roeschlein, Eugene R.; Weiss, Donald C.; and Zeph, David L., to United States of America, Navy. Digital memory shift register incorporating target data averaging through a digital smoothing loop. 3,704,364, 11-28-72, Cl. 235-176.000.
- Roeseler, Mangin E.; and Richards, David D. Casing for reel mounted cord. 3,691,639, 9-19-72, Cl. 33-87.000.
- Roeser, John O., to Otto Engineering, Inc. Multi-component mixing apparatus. 3,684,250, 8-15-72, Cl. 259-8.000.
- Roesies, David J. Fifth wheel coupling for tractor-trailer vehicle. 3,653,686, 4-4-72, Cl. 280-421.
- Roeske, Eugene A. Analog position controller. 3,636,973, 1-25-72, Cl. 137-488.

- Roessing Bronze Company: *See—*
Barbour, Alfred R., 3,669,647.
- Roest, Bernard C.; Van Der Loos, Jozef L. M.; and Claassen, Peter J. M. W., to Stamicarbon N.V. Product and process for the preparation of acrylonitrile and X-methylene glutaric acid anhydride copolymers. 3,642,719, 2-15-72, Cl. 260-78.5.
- Roethke, Ernst: *See—*
Krauss, Paul; Roethke, Ernst; and Tenholtern, Gerhard, 3,631,663.
- Roethlein, Richard J., to Sprague Electric Company. Electrolytic cell with in-situ charging electrolyte. 3,684,928, 8-15-72, Cl. 317-230.000.
- Roevens, Leopold Frans Corneel: *See—*
Van Gelder, Josephus Ludovicus Hubertus; Roevens, Leopold Frans Corneel; and Raeymaekers, Alfons Herman Margaretha, 3,657,267.
- Roever, Wilhelm; Junghanss, Helmut; and Kauczor, Hans-Werner, to Farbenfabriken Bayer Aktiengesellschaft. Process for the purification of cadmium solutions. 3,699,207, 10-17-72, Cl. 75-101.0be.
- Roever, William L.: *See—*
Haase, Richard J.; and Roever, William L., 3,701,088.
- Roffelsen, Franciscus, to Naomloze Venootschap Spiro Research N.V. Heat exchanger. 3,703,253, 11-21-72, Cl. 228-17.000.
- Roffey, Patrick; and Verge, John Pomfret, to Lilly Industries, Ltd. Anti-inflammatory 1,2,4-triazines. 3,644,358, 2-22-72, Cl. 260-248.
- Roffey, Patrick; and Verge, John Pomfret, to Lilly Industries, Ltd. Antiparasitic thienyl thiazoles. 3,658,798, 4-25-72, Cl. 260-240.
- Roffey, Patrick; and Verge, John Pomfret, to Lilly Industries, Ltd. 4-Hydrazonomethylthiazole antitrypanocides. 3,691,160, 9-12-72, Cl. 260-240.00a.
- Roffey, William Arthur; and Fox, Austin Leslie, to Molins Machine Company Limited. Apparatus for forming a plastic container. 3,663,146, 5-16-72, Cl. 425-301.
- Roffler, Josua, to Sulzer Brothers Limited. Vapor generating plant. 3,682,140, 8-8-72, Cl. 122-34.000.
- Rogaar, Harm P.: *See—*
Desgurse, Paul J. A.; and Rogaar, Harm P., 3,669,940.
- Rogall, Herbert, to Singer Company, The, mesne. Accelerometer. 3,680,393, 8-1-72, Cl. 73-517.00b.
- Roger, Loven: *See—*
Habermann, Helmut; Roger, Loven; and Joly, Pierre, 3,702,208.
- Rogers, Adair. Radial flow check valve. 3,646,956, 3-7-72, Cl. 137-525.
- Rogers, Alan B.; Sebring, Michael; and Kline, Ralph W., to Armour and Company. Preparation of whole egg magma product. 3,658,558, 4-25-72, Cl. 99-161.
- Rogers, Alan B.; and Schwall, Donald V., to Armour and Company. Meat and gravy product and method of making same. 3,681,094, 8-1-72, Cl. 99-187.000.
- Rogers, Alan B.; and Sebring, Michael, to Armour and Company. Method for making a food product in portions of controlled size and shape. 3,697,283, 10-10-72, Cl. 99-1.000.
- Rogers, Albert B.; and Rogers, Arthur N. Rear viewing device. 3,650,607, 3-21-72, Cl. 350-289.
- Rogers, Albert P.: *See—*
Conklin, Robert M.; and Rogers, Albert P., 3,638,688.
- Rogers, Albert P.; Conklin, Robert M.; and Baldwin, Bradford J., to Brunswick Corporation. Contourable green with randomly operable contour selection. 3,658,343, 4-25-72, Cl. 273-176.
- Rogers, Arden W.: *See—*
Kepple, Richard K.; Hewko, Lubomyr O.; and Rogers, Arden W., 3,702,084.
- Rogers, Arthur N.: *See—*
Rogers, Albert B.; and Rogers, Arthur N., 3,650,607.
- Rogers, Benjamin W. Amusement device. 3,689,069, 9-5-72, Cl. 273-85.00r.
- Rogers, Bernhard J.: *See—*
Kerr, James A.; Rogers, Bernhard J.; and Sutherland, Leslie J., 3,702,377.
- Rogers, Bernhard J., to Rank Organisation Limited, The. Method and apparatus for recording and reproducing color images on monochrome film. 3,659,039, 4-25-72, Cl. 178-5.4.
- Rogers, Charles J., Sr.; and Stanley, Paul E. Electrical protective circuit. 3,665,252, 5-23-72, Cl. 317-18.
- Rogers, Chester D., to Jacobsen Manufacturing Company. Vehicle operator weight transfer assembly. 3,670,834, 6-20-72, Cl. 180-41.000.
- Rogers, Chester D., to Jacobsen Manufacturing Company. Combination soil conditioner and seeder. 3,685,469, 8-22-72, Cl. 111-87.000.
- Rogers, Clarence H.: *See—*
Baker, Calvin Lee; and Rogers, Clarence H., 3,679,233.
- Rogers Corporation: *See—*
Iosue, Michael F.; and Sanders, Robert E., 3,652,897.
- Iosue, Michael F.; Robinson, Ronald F.; Anderson, Paul L.; and Ziobrowski, Edwin P., 3,663,866.
- Traut, George Robert, 3,663,651.
- Vernon, John T.; and Ankrom, Albert M., 3,650,520.
- Rogers, Cyril B. Modular tower. 3,634,989, 1-18-72, Cl. 52-584.
- Rogers, Dow A., Jr., to Westinghouse Electric Corporation. Novel micaceous insulation. 3,695,984, 10-3-72, Cl. 161-93.000.
- Rogers, Edward F.: *See—*
McManus, Edward C.; and Rogers, Edward F., 3,655,888.
- Rogers, Edward Parry. Combination lock window latch. 3,667,263, 6-6-72, Cl. 70-89.000.
- Rogers, Edward S.: *See—*
Sanford, Robert A.; Mooi, John; and Rogers, Edward S., 3,679,605.
- Rogers, Ernest W.; and Learney, Lewis P., to Redifon Limited. Transistor amplifiers. 3,683,289, 8-8-72, Cl. 330-15.
- Rogers, Fanny L.: *See—*
Rogers, Henry C.; and Rogers, Fanny L., 3,635,316.
- Rogers, Frank J.; and MacClose, Joe, to Rogers Sales & Service, Inc. Process of manufacture of a plastic tee assembly. 3,654,008, 4-4-72, Cl. 156-152.
- Rogers, Frederic L.; and Rogers, William W.; deceased (by Rogers, Sarah M.; executrix). Method of casting foam plastic to join a rigid shell and thin polymeric skin. 3,705,222, 12-5-72, Cl. 264-45.000.
- Rogers, Frederick; Bradus, Robert; and Winar, Joseph J., to Singer Company, The. Control device for the work feeding mechanism of a sewing machine. 3,636,900, 1-25-72, Cl. 112-210.
- Rogers, Fulton Floyd, Jr., to Du Pont de Nemours, E. I., and Company. Polymeric phenone photosensitizers and blends thereof with other polymers. 3,632,493, 1-4-72, Cl. 204-159.14.
- Rogers, Fulton Floyd, Jr., to Du Pont de Nemours, E. I., and Company. Corrugated packaging film and its preparation. 3,684,642, 8-15-72, Cl. 161-135.000.
- Rogers, George A., to Calmic Engineering Company Limited. Dialysis apparatus. 3,660,280, 5-2-72, Cl. 210-22.
- Rogers, George L.: *See—*
Bakel, Joseph F.; and Rogers, George L., 3,665,170.
- Rogers, Gerald L., to Stile-Craft Manufacturers, Inc. Automatic valve. 3,690,615, 9-12-72, Cl. 251-31.000.
- Rogers, Gerald L., to Stile-Craft Manufacturers, Inc. Heated nebulizer spray unit. 3,695,516, 10-3-72, Cl. 239-135.000.
- Rogers, Henry C.; and Rogers, Fanny L. Combined foot operated throttle and brake. 3,635,316, 1-18-72, Cl. 192-3.
- Rogers, Howard G.: *See—*
Buckler, Sheldon A.; Milligan, Terry W.; and Rogers, Howard G., 3,679,409.
- Rogers, Howard G., to Polaroid Corporation. Variable light-filtering device with a redox compound which functions as its own electrolyte. 3,652,149, 3-28-72, Cl. 350-160.
- Rogers, Howard G., to Polaroid Corporation. Photographic products and processes for color diffusion transfer. 3,689,262, 9-5-72, Cl. 96-3.000.
- Rogers, Howard G.; and Taylor, Lloyd D., to Polaroid Corporation. Polymer encapsulated silver halide grains and photographic materials employing same. 3,697,279, 10-10-72, Cl. 96-77.000.
- Rogers, Howard G., to Polaroid Corporation. Photographic products and processes for color diffusion transfer. 3,701,656, 10-31-72, Cl. 96-300.000.
- Rogers, Howard H.: *See—*
Greyson, Jerome; and Rogers, Howard H., 3,664,940.
- Rogers, Jack. Portable valve facer. 3,648,416, 3-14-72, Cl. 51-241.
- Rogers, Jesse M.: *See—*
Findley, Anthony W.; and Rogers, Jesse M., 3,670,696.
- Rogers, Jimmy D.: *See—*
Austin, Frederick H.; Rogers, Jimmy D.; and Wormser, Joseph J., 3,706,038.
- Rogers, Joe E. Smog control device for internal combustion engine. 3,656,460, 4-18-72, Cl. 123-41.860.
- Rogers, Joe E. Apparatus for preventing escape of fuel vapor from internal combustion engine. 3,683,878, 8-15-72, Cl. 123-136.000.
- Rogers, John A.; and Bossard, Fredrick R., to Standard Engineering Co., Inc., mesne. Vehicle body coupling. 3,635,302, 1-18-72, Cl. 180-44.
- Rogers, John A.; and Bossard, Fredrick R., to Standard Engineering Co., Inc., mesne. Vehicle front wheel drive assembly. 3,659,667, 5-2-72, Cl. 180-6.2.
- Rogers, John A.; and Bossard, Fredrick R., to Standard Engineering Co., Inc., mesne. Vehicle rear wheel drive assembly. 3,664,451, 5-23-72, Cl. 180-70.
- Rogers, John B. Apparatus for mounting lamp shades on hanging lamps. 3,693,001, 9-19-72, Cl. 240-128.000.
- Rogers, John E.: *See—*
James, Robert C.; Hart, Charles G.; Rogers, John E.; and Safranski, Richard W., 3,687,250.
- Rogers, John J.; and Stratman, John A., to Lumidor Products Corporation. Traffic control light with means responsive to a power failure. 3,641,487, 2-8-72, Cl. 340-46.
- Rogers, John M.: *See—*
Neth, Richard M.; Rogers, John M.; and Gallagher, James J., 3,672,011.
- Rogers, John M. Screw thread cleaning apparatus. 3,680,167, 8-1-72, Cl. 15-104.140.
- Rogers, Julius T.: *See—*
Wright, Sam B.; and Rogers, Julius T., 3,637,658.

- Rogers, Kathryn C. Shot spotter. 3,670,417, 6-20-72, Cl. 33-46.000.
 Rogers, Kendal T.: *See—*
 Spindt, Charles A.; and Rogers, Kendal T., 3,675,063.
 Rogers, Lawrence M.: *See—*
 Prendergast, Richard E.; and Rogers, Lawrence M., 3,635,360.
 Rogers, Leo C.; Nikirk, Roger G.; and Heitz, Alfred J., to Motorola, Inc. Method for producing high purity monocrystalline silicon. 3,679,470, 7-25-72, Cl. 117-200.000.
 Rogers, Leslie Richard: *See—*
 Dawson, Fred; Mitchell, John; Rogers, Leslie Richard; Todd, William; and Topham, Arthur, 3,661,611.
 Rogers, Lloyd W., Jr.: *See—*
 Arlauskas, Alfonsas; and Rogers, Lloyd W., Jr., 3,692,328.
 Rogers, Louis J.: *See—*
 Freeman, Donald C., Jr.; and Rogers, Louis J., 3,672,841.
 Rogers, Lynn C.: *See—*
 Hunt, Mack W.; Rogers, Lynn C.; and Sias, Roy C., 3,661,777.
 Scott, William P.; and Rogers, Lynn C., 3,671,012.
 Rogers, Lynn C., to Continental Oil Company. Method of improving resistance to corrosion of metal surfaces and resultant article. 3,661,622, 5-9-72, Cl. 117-75.
 Rogers, May B.: *See—*
 Rogers, Murray K., 3,631,599.
 Rogers, Murray K., 3,667,990.
 Rogers, Murray K., 3,688,409.
 Rogers, Murray K.; deceased (by Rogers, May B.; executrix), to Multi-Line Pen Company Incorporated. Line drafting guide. 3,631,599, 1-4-72, Cl. 33-1.
 Rogers, Murray K.; deceased (by Rogers, May B.; executrix), to Mi-Marker Corporation, mesne. Production of indicia upon surface. 3,667,990, 6-6-72, Cl. 117-38.
 Rogers, Murray K.; deceased (by Rogers, May B.; executrix), to Multi-Line Pen Company, Incorporated. I-Square and guide means for drafting. 3,688,409, 9-5-72, Cl. 33-81.000.
 Rogers, Patrick F.; and Hendrickson, Warren L., to Lockheed Aircraft Corporation. Special purpose firearms projectile. 3,672,304, 6-27-72, Cl. 102-92.300.
 Rogers, Paul C.: *See—*
 Brawner, William H.; Gunsalus, Claude A.; and Rockwell, Lowell K., 3,698,337.
 Rogers, Raymond E.: *See—*
 Franklin, Denis; Gingold, Jerald S.; Oxenham, Ronald B.; and Rogers, Raymond E., 3,680,084.
 Rogers, Raymond R.: *See—*
 Dingley, Wilfred; Bednar, John S.; and Rogers, Raymond R., 3,645,858.
 Dingley, Wilfred; Bednar, John S.; and Rogers, Raymond R., 3,647,648.
 Rogers, Robert G., to GTE Automatic Electric Laboratories Incorporated. Double-mode tuned microwave oscillator. 3,699,475, 10-17-72, Cl. 331-101.000.
 Rogers, Robert Wayne, to Miles Laboratories, Inc. Differential conductivity measuring apparatus. 3,635,681, 1-18-72, Cl. 23-253.
 Rogers, Roland T.: *See—*
 Gross, Robert D.; and Rogers, Roland T., 3,665,426.
 Rogers, Ronald S., to Phillips Petroleum Company. Hydrocarbon purification. 3,660,515, 5-2-72, Cl. 260-681.5.
 Rogers, Roy E., to Container Corporation of America. Reinforced fiber container having safety feature. 3,648,881, 3-14-72, Cl. 220-54.
 Rogers, Roy L. Landscaping apparatus. 3,680,257, 8-1-72, Cl. 47-47.000.
 Rogers, Ruel T.: *See—*
 Lytton, Irvin V.; and Rogers, Ruel T., 3,661,643.
 Rogers, Ryland F.: *See—*
 Young, Eugene F.; and Rogers, Ryland F., 3,638,614.
 Rogers Sales & Service, Inc.: *See—*
 Rogers, Frank J.; and MacClose, Joe, 3,654,008.
 Rogers, Sarah M.: *See—*
 Rogers, Frederic L.; and Rogers, William W., 3,705,222.
 Rogers, Stanley, to General Dynamics Corporation. Matrix switching system having iteratively terminated transmission line. 3,694,775, 9-26-72, Cl. 333-7.000.
 Rogers, Thomas J., Jr. Self-leveling seat structure. 3,632,076, 1-4-72, Cl. 248-371.
 Rogers, Waldo I.: *See—*
 Ballard, Louis M.; and Rogers, Waldo I., 3,634,657.
 McInnis, Andrew M.; Ballard, Louis M.; Rogers, Waldo I.; Kramer, David C.; and Nielsen, Robert A., 3,639,990.
 Rogers, Waldo I., to Rusco Industries, Inc. Electronic validator system for magnetic credit cards and the like. 3,648,021, 3-7-72, Cl. 235-61.7.
 Rogers, Waldo I.; and Van Pelt, Denis L., to Rusco Industries, Inc. Static reader system for magnetic cards. 3,686,479, 8-22-72, Cl. 235-61.11d.
 Rogers, Walter C., Jr., to Royal Development Company, Inc. Reclining chair. 3,652,125, 3-28-72, Cl. 297-61.000.
 Rogers, Walter Clark, Jr.; and Snitzer, Morton. Sofa bed and linkage mechanism. 3,657,747, 4-25-72, Cl. 5-29.
 Rogers, Willard C.: *See—*
 Stewart, Ray S., 3,661,418.
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 Rogers, William A., Jr., to Dow Chemical Company, The. Novel composite article and method for the protection of articles of commerce. 3,642,567, 2-15-72, Cl. 161-165.
 Rogers, William C. Antenna tensioning unit. 3,656,163, 4-11-72, Cl. 343-705.
 Rogers, William W.: *See—*
 Bradshaw, Thurman O.; and Rogers, William W., 3,706,068.
 Rogers, Frederic L.; and Rogers, William W., 3,705,222.
 Rogers, Z. W.; and Kirk, William L. Refuse disposal method. 3,665,716, 5-30-72, Cl. 61-35.000.
 Roget, Jean; and Tarbouriech, Philippe, to Rhone-Poulenc S.A. Multi-stage reactors. 3,642,452, 2-15-72, Cl. 23-283.
 Rogg, Herman O.: *See—*
 Martin, Harold B.; and Rogg, Herman O., 3,698,276.
 Roggendorf, Wilhelm. Chromium electroplating. 3,661,733, 5-9-72, Cl. 204-51.000.
 Roggero, Arnaldo: *See—*
 Cesca, Sebastiano; Roggero, Arnaldo; Priola, Aldo; and Cinelli, Ermanno, 3,646,105.
 Cesca, Sebastiano; Roggero, Arnaldo; and Marconi, Walter, 3,647,767.
 Cesca, Sebastiano; Roggero, Arnaldo; and Cinelli, Ermanno, 3,657,204.
 Cesca, Sebastiano; Roggero, Arnaldo; and Marconi, Walter, 3,694,420.
 Corradini, Giorgio; Ghetti, Giuseppe; Cesca, Sebastiano; and Roggero, Arnaldo, 3,668,156.
 Marconi, Walter; Cesca, Sebastiano; and Roggero, Arnaldo, 3,654,246.
 Roggie, William Clark, to Baker-Roos, Inc. Guard rail assembly for a platform. 3,675,736, 7-11-72, Cl. 182-113.000.
 Rogier, Edgar R.: *See—*
 Mac Kay, Kenneth D.; Rogier, Edgar R.; and Kreevoy, Maurice M., 3,707,495.
 Rogiers, Etienne Marie, to Intercan S.A. Machine for conditioning packings. 3,653,175, 4-4-72, Cl. 53-184.
 Rogler, Walter: *See—*
 Termin, Erich; Rogler, Walter; Joch, Wilhelm; and Honigschmid-Grossich, Rudiger, 3,679,724.
 Rogols, Saul; and High, Robert L., to Staley, A. E., Manufacturing Company, mesne. Fermentable starch compositions. 3,652,295, 3-28-72, Cl. 99-91.
 Rogosch, John E.; and Williams, Floyd B., to Ethyl Corporation. Method for producing a multi-layer reinforced plastic sheet material. 3,687,764, 8-29-72, Cl. 156-179.000.
 Rogov, Anatoly Yakovlevich. Radial-piston multiple-action hydraulic motor. 3,661,057, 5-9-72, Cl. 91-482.
 Rogow, Charles Martin. Spool winding method and apparatus. 3,684,205, 8-15-72, Cl. 242-67.200.
 Roh, Peter: *See—*
 Ludke, Wolfgang; and Roh, Peter, 3,682,096.
 Rohan, George Alexander. Treatment of powdered chalk. 3,704,158, 11-28-72, Cl. 117-100.00b.
 Rohde & Schwarz: *See—*
 Scheuerecker, Friedrich; and Schlagbauer, Johann, 3,686,673.
 Sonnberger, Hanfried, 3,686,455.
 Rohde, John J.; and Robinson, Jack B., to Hoerner-Waldorf Corporation. Combined pad and partition for containers. 3,682,367, 8-8-72, Cl. 229-15.000.
 Rohde, Robert P.: *See—*
 Brewer, Lee M.; and Rohde, Robert P., 3,705,685.
 Rohde, Robert P.; Welsh, Clarence E.; and Engelhardt, Hans, to General Motors Corporation. Fluid vane motor. 3,674,385, 7-4-72, Cl. 418-177.000.
 Rohde, Terry L., to Clare, C. P., & Company. Method of sealing reed switches using infrared energy. 3,660,064, 5-2-72, Cl. 65-59.
 Rohde, Wilhelm; and Helfgen, Werner, to Dynamit Nobel Aktiengesellschaft. Process and apparatus for the production of a fuse. 3,683,742, 8-15-72, Cl. 86-1.00r.
 Rohdenizer, Harold L.: *See—*
 Mersereau, Mark; Rohdenizer, Harold L.; Grunwald, John J.; and Innes, William P., 3,698,940.
 Rohdin, Howard A.: *See—*
 Brown, Fred P., Jr.; and Rohdin, Howard A., 3,640,668.
 Rohe Scientific Corporation: *See—*
 Natelson, Samuel, 3,635,394.
 Natelson, Samuel, 3,687,632.
 Roher, Arnold L.; Sprigman, Arthur; and Steinberg, Bertram. Collapsible chair. 3,635,520, 1-18-72, Cl. 297-45.
 Rohf, Josef: *See—*
 Becker, Werner; Farwer, Alfwald; Frank, Georg; Reis, Bernhard; Rohf, Josef; and Auer, Rupert, 3,674,978.
 Rohland, William S.: *See—*
 Bartholomew, Gerald E.; Kostuch, Donald J.; Robinson, Thomas E.; and Rohland, William S., 3,697,951.
 Rohlf, Gunter, to Gleitschnelbau Gesellschaft mit beschränkter Haftung. Guide assemblage for sliding shuttering for building concrete structures. 3,632,079, 1-4-72, Cl. 249-189.
 Rohlfing, Raymond G.: *See—*

- Stacy, Galen D.; and Rohlfing, Raymond G., 3,672,070.
 Rohloff, Ebbe; and Lorenz, Richard, to Siemens Aktiengesellschaft. Teaching system for programmed class and individual teaching. 3,647,926, 3-7-72, Cl. 35-48.
 Rohloff, Robert R., to Minnesota Mining and Manufacturing Company. Packaging of semiconductor devices. 3,691,289, 9-12-72, Cl. 174-52.0pe.
 Rohm & Haas Company: *See—*
 Albright, Robert L., 3,663,467.
 Bayer, Horst O.; Cook, Richard S.; and von Meyer, William C., 3,647,810.
 Bayer, Horst O., 3,653,873.
 Bockstahler, Theodore E.; and Hunt, Curtis R., 3,705,190.
 Bonafiglia, Joseph C.; and Krieger, Harold, 3,702,877.
 Bonsignore, Patrick V., 3,653,950.
 Brodnayan, John G., 3,647,735.
 Brown, Albert B.; and Parkhill, Frank J., 3,671,305.
 Cenci, Harry J.; and Stevens, Travis E., 3,689,468.
 de Benneville, Peter L.; and Blessing, Heinz W., 3,649,456.
 Derby, Richard, 3,687,801.
 Dupre, Jean; and Booman, Keith A., 3,653,095.
 Dupre, Jean, 3,655,436.
 Dupre, Jean; and Booman, Keith A., 3,655,582.
 Emmons, William D.; and Levy, Jerome F., 3,661,923.
 Emmons, William D.; and Frank, George A., 3,689,532.
 Emmons, William D.; Moser, Vincent J.; Brodnayan, John G.; and Shachat, Norman, 3,705,053.
 Emmons, William D.; and Levy, Jerome F., 3,705,189.
 Faith, William T., Jr.; Steigerwalt, Ronald B.; and Robbins, Ernest A., 3,697,285.
 Fellmann, Robert Paul; and Fettes, Robert Clarke, 3,655,826.
 Forsyth, George E., 3,634,554.
 Freudenberg, Bertram B., 3,654,069.
 Greenfield, Stanley A., 3,647,814.
 Horrom, Bruce W.; Crovetti, Aldo J.; and Viste, Kenneth L., 3,640,699.
 Horrom, Bruce W.; Crovetti, Aldo J.; and Viste, Kenneth L., 3,677,739.
 Hurwitz, Marvin J.; and De Witt, Walter G., III, 3,681,298.
 Jones, Wilford Donald; Baldino, James Peter; and Melamed, Sidney, 3,670,068.
 Kirch, Lawrence S., 3,686,301.
 Kirch, Lawrence S., 3,689,546.
 Konen, Patricia F., 3,705,645.
 Kroekel, Charles Henry, 3,642,672.
 Kroekel, Charles Henry, 3,701,748.
 Lang, Edgar Reed; and Kelson, Robert Leslie, 3,634,367.
 Levy, Jerome F., 3,694,389.
 Levy, Jerome F.; and Kucsan, John, 3,705,119.
 Lewis, Sheldon N.; Merritt, Richard F.; and Emmons, William D., 3,678,098.
 Lewis, Sheldon N.; and Miller, John J., 3,681,108.
 Lewis, Sheldon N.; Merritt, Richard F.; and Emmons, William D., 3,694,393.
 Lewis, Sheldon N.; Merritt, Richard F.; and Emmons, William D., 3,702,799.
 Lewis, Sheldon N.; and Miller, George Allen, 3,706,757.
 Lutz, John Thomas, Jr., 3,654,211.
 Mansfield, Richard C.; and Rainey, James L., 3,640,998.
 McNamee, Raymond W.; Mlynar, Lubomir; and Schachat, Norman, 3,671,472.
 McNamee, Raymond W., Jr.; Glavis, Frank J.; and Schiavone, Anthony E., 3,681,069.
 McNulty, Patrick J.; Swithenbank, Colin; Viste, Kenneth L.; and Von Meyer, William C., 3,661,991.
 Minton, Robert G.; and Melamed, Sidney, 3,673,280.
 Miyahara, Akimitsu; Fujita, Minoru; Yamamoto, Isao; and Katamura, Tamako, 3,661,775.
 Nemec, Joseph W.; and Schlaefter, Francis W., 3,637,835.
 Nemec, Joseph W.; and Hoffer, Donald R., 3,642,843.
 Nichols, Hal C.; Irwin, Sibley R.; and Collins, Robert K., Jr., 3,680,479.
 Niederhauser, Warren Dexter; Belmares-Sarabia, Hector; and Bauer, William, Jr., 3,641,199.
 Owens, Frederick H.; and Clovis, James S., 3,668,274.
 Paleos, Joannis, 3,652,407.
 Petty, Robert C., 3,700,708.
 Piccolini, Richard J., 3,634,493.
 Piccolini, Richard J., 3,684,713.
 Ryan, Charles Francis, 3,678,133.
 Seidel, Michael C.; Von Meyer, William C.; and Greenfield, Stanley A., 3,701,784.
 Shachat, Norman; Haggard, Richard A.; and Lewis, Sheldon N., 3,689,470.
 Sherba, Samuel E., 3,632,346.
 Sherba, Samuel E.; Steigerwalt, Ronald B.; Faith, William T., Jr.; and Smythe, Carl V., 3,640,725.
 Souder, Louis C.; Larsson, Bjorn E.; and Ryan, Charles F., 3,655,825.
 Spilner, Allan John, 3,681,475.
 Switchenbank, Colin; and Viste, Kenneth L., 3,700,732.
 Viste, Kenneth L.; and Fleischfresser, Marvin H., 3,667,931.
 Von Meyer, William C., 3,659,017.
 Rohm & Haas G.m.b.H.: *See—*
 Riemann, Karl Heinz; Kautter, Carl Theodor; and Baumann, Ulrich, 3,658,895.
 Rohm, Fritz: *See—*
 Rieger, Arnulf; and Rohm, Fritz, 3,695,278.
 Rohm Gesellschaft mit beschränkter Haftung: *See—*
 Arndt, Peter Joseph; Fink, Herbert; Moroff, Helmut; Determann, Hermine; and Grimm, Reinhard, 3,663,462.
 Markert, Gerhard; Pennewis, Horst; Ross, Klaus; and Neher, Dieter, 3,661,880.
 Uhlig, Helmut; and Grampp, Ekkehard, 3,640,723.
 Wenzel, Franz; and Riemann, Karl Heinz, 3,639,460.
 Rohm, Robert F.: *See—*
 Rickard, Donn J.; Rohm, Robert F.; and Holbrook, Franklin K., 3,682,207.
 Rohm, Robert F., to Threadline Fastener Corporation. Self-locking screw threaded fastener. 3,687,183, 8-29-72, Cl. 151-22.000.
 Rohm, Wilhelm: *See—*
 Leuschke, Christian; and Rohm, Wilhelm, 3,634,279.
 Rohm-Gesellschaft m.b.H., Werkzeug- und Maschinenfabrik: *See—*
 Kodalle, Rudi, 3,641,875.
 Rohn, Charles L., to Mobil Oil Corporation. Formation of elastic and high-tenacity fibers from butene-1 homopolymers and copolymers. 3,686,385, 8-22-72, Cl. 264-164.000.
 Rohn, Karl: *See—*
 Frohlich, Alfons; and Rohn, Karl, 3,633,528.
 Rohner, Dieter; and Duhring, Wolfgang, to Akzona Incorporated. Method and apparatus for measuring yarn tension. 3,679,808, 7-25-72, Cl. 73-144.000.
 Rohner, Friedbert R. Motion transforming device for producing a reciprocating motion. 3,673,876, 7-4-72, Cl. 74-37.000.
 Rohner, Otto, to Mideco Mediterranean Industrial Development Establishment. Apparatus to release garbage-filled receptacles down a shaft. 3,651,912, 3-28-72, Cl. 194-4.
 Rohosy, Soma M.: *See—*
 Frye, Kenneth G.; Lucas, Robert G.; and Rohosy, Soma M., 3,685,379.
 Rohowetz, Stanley Edward: *See—*
 Platt, John Robert; and Rohowetz, Stanley Edward, 3,701,453.
 Rohr, Alton J.; and McKeown, Cornelius J., to United States of America, Army. Apparatus and method for the disposal of liquid waste material. 3,698,331, 10-17-72, Cl. 110-7.00r.
 Rohr Corporation: *See—*
 Baerresen, Richard B., 3,684,183.
 Blair, Winford; and Bubel, Walter L., 3,656,224.
 Blair, Winford, 3,663,270.
 Caddwell, Gilbert C., 3,673,833.
 Carrillo, Gilberto; and Brown, William D., 3,647,645.
 Carrillo, Gilberto, 3,679,591.
 Christopher, Ronald C., 3,685,737.
 Colebrook, Ross W.; and Ellis, Peter H., 3,650,348.
 Cook, Billy G.; Pollard, Barry; and Martinez, Romulo M., 3,683,488.
 Duvvuri, Tirumalesa, 3,664,455.
 Duvvuri, Tirumalesa, 3,685,611.
 Ellis, Peter H., 3,696,617.
 Eschenburg, Rodney, 3,666,043.
 Frankie, Thomas T.; and Pascoe, Larry B., 3,685,716.
 Hilbig, Jack H., 3,637,041.
 Hilbig, Jack H., 3,655,007.
 Hilbig, Jack H., 3,655,009.
 Hilbig, Jack H., 3,678,534.
 Hilbig, Jack H., 3,695,387.
 Johnson, Norman D., 3,635,112.
 Kanatsiz, Necati; and Davis, Floyd E., 3,659,532.
 Kendall, Earl W., 3,663,379.
 Kendall, Earl W., 3,687,741.
 MacDonald, Howard R., 3,647,020.
 MacDonald, Howard R., 3,673,803.
 Maison, Richard L., 3,684,182.
 McClain, Charles R., 3,695,331.
 Medawar, George E.; Linderman, Duane L.; and Brannon, Ralph O., 3,655,133.
 Medawar, George E.; and Holman, Leonard, 3,665,709.
 Millman, Victor, 3,635,308.
 Millman, Victor; and Gray, Wallie P., 3,647,021.
 Millman, Victor, 3,655,008.
 Murday, David A., 3,647,141.
 Palumbo, Donald R.; Platt, John V.; Noeggerath, Leon; Johnston, Laurence, Jr.; and Aleckna, Robert G., 3,657,794.
 Potter, Earl B., 3,690,561.
 Raynes, Burt F., 3,637,042.
 Raynes, Burt F.; Kanatsiz, Necati; and Otte, Robert E., 3,666,118.
 Raynes, Burt F., 3,685,022.
 Rethwish, William F., 3,637,165.
 Rethwish, William F., 3,673,695.
 Ross, James A., 3,638,093.
 Schafer, Thomas W., 3,647,231.

- Shiflet, Robert H., 3,639,961.
Shiflet, Robert H., 3,654,685.
Shiflet, Robert H., 3,662,462.
Shiflet, Robert H., 3,688,381.
Tontini, Remo; and Johnsen, Raymond K., 3,650,472.
Vawter, Verne E.; Wilson, William D.; and Leake, Kyle W., 3,633,087.
Waidelich, Jack P., 3,646,760.
Warren, James R., 3,661,407.
Weidel, Joseph C., 3,679,508.
Rohr, Edwin, to Hammerli A.G. Semi-automatic rapid firing pistol with gas escape openings in the barrel wall. 3,665,804, 5-30-72, Cl. 89-14.00c.
Rohr, Gunther, to Union Special Maschinefabrik G.m.b.H. Switch unit for controlling operation of parts of or accessories for sewing machines. 3,661,105, 5-9-72, Cl. 112-210.
Rohr, Harry: *See—*
Muller, Karl-Heinz; Rohr, Harry; and Ott, Karl-Heinz, 3,704,071.
Rohr Industries, Inc.: *See—*
Medawar, George E.; and Hom, Felix, 3,702,220.
Millman, Victor, 3,702,121.
Weidel, Joseph C., 3,702,560.
Wellnitz, Jerry N.; and Dummer, Richard S., 3,702,391.
Rohr, Otto: *See—*
Hubele, Adolf; and Rohr, Otto, 3,676,457.
Janiak, Stefan; and Rohr, Otto, 3,705,028.
Rohr, Otto; and von Orelli, Marcus, to Ciba Limited. Trifluoromethyl-p-nitro diphenyl ethers. 3,647,888, 3-7-72, Cl. 260-612.
Rohr, Otto; Deber, Ludwig; Dittich, Volker; and Siegle, Heinz, to Ciba Limited. Combatting phytopathogenic fungi on plants with sub-phytotoxic fungicidally effective amounts of herbicidal oximes of 3,5 dihalosalicylaldehyde. 3,652,770, 3-28-72, Cl. 424-32.
Rohr, Robert Lewis: *See—*
Grandia, Johannes; and Rohr, Robert Lewis, 3,674,004.
Rohr, Wolfgang: *See—*
Zschocke, Albrecht; Rohr, Wolfgang; and Fischer, Adolf, 3,671,540.
Rohrbaugh, Roy E., to Reactive Metals, Inc. Method of forging elongated metal shapes from ingots and resulting product. 3,645,124, 2-29-72, Cl. 72-377.
Rohrhauff, Harry E., Sr. Broken tool detector. 3,647,998, 3-7-72, Cl. 200-61.42.
Rohrbach, Royal E.; and Ray, Royce W., to Fitness Industries, Inc. Variable speed drive. 3,678,773, 7-25-72, Cl. 74-230.17a.
Rohrbacher, Herbert E., to Bergandi Manufacturing Company, Inc. Wire fabric and apparatus and method for making same. 3,667,509, 6-6-72, Cl. 140-3.00c.
Rohrbacher, James T.; and Wagner, Richard C., to Integral Process Systems, Inc. Pastry coating apparatus. 3,654,894, 4-11-72, Cl. 118-17.
Rohrbaugh, Lynn G.: *See—*
Bonyata, John O.; and Rohrbaugh, Lynn G., 3,637,444.
Rohrberg, Roderick, 1/2 to North American Rockwell Corporation and 1/2 to Air Products and Chemicals, Inc. Plasma generating method and means. 3,649,805, 3-14-72, Cl. 219-121.
Rohrberg, Roderick G.; and Harvey, Don E. Adjustable throw eccentric. 3,678,781, 7-25-72, Cl. 74-571.00m.
Rohrborn, Hans-Joachim. Production of barium hydroxide. 3,669,625, 6-13-72, Cl. 23-186.000.
Rohren-Keller A.G.: *See—*
Plontke, Erich, 3,634,167.
Rohrer, Carl H. Method for replacing gas mains. 3,688,801, 9-5-72, Cl. 138-97.000.
Rohrer, Daniel F.; and Hait, Paul W. Portable pulling device. 3,648,977, 3-14-72, Cl. 254-150.
Rohrer, David A.: *See—*
Griffith, Paul A.; and Rohrer, David A., 3,695,813.
Rohrer, Ernst. Method of treating animal waste. 3,645,893, 2-29-72, Cl. 210-50.
Rohrer, Gene D.: *See—*
Chittenden, Rudy M.; Deskevich, Stephen; Plummer, Norman R.; Rohrer, Gene D.; and Zaman, Louis F., III, 3,645,392.
Rohrer, John D.: *See—*
Parker, Shirley L.; and Rohrer, John D., 3,640,423.
Rohrig, Herbert; and Loy, Fritz, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Method of making a retractile cord. 3,694,279, 9-26-72, Cl. 156-50.000.
Rohrig, Klaus: *See—*
Kraemer, Friedrich; Mandel, Jörn; Mayer, Siegfried; Rohrig, Klaus; Schulz, Hans-Peter; Weidenmüller, Hilmar; Haverkamp, Klaus Dieter; and Motz, Jürgen, 3,664,826.
Rohrle, Anto, to Lohf & Tillipaul, Firma. Trueing device for grinding wheels. 3,685,505, 8-22-72, Cl. 125-11.000.
Rohrlick, Myles A. Sealing device for easy opening cans. 3,670,920, 6-20-72, Cl. 220-57.
Rohrs, Douglas W.: *See—*
Buller, Dale F.; and Rohrs, Douglas W., 3,662,106.
Rohrs, Marvin K.; Neary, Robert J.; Rosenberg, Robert B.; Kardas, Alan; and Staats, William R., to Arco-Flow Dynamics, Inc., (The

- Wing Company Division). Rotary regenerative space heater. 3,695,250, 10-3-72, Cl. 126-110.00r.
Rohrs, Marvin K.; and Neary, Robert J., to Aero-Flow Dynamics, Inc. (Wing Company Division, The). Air-to-air energy exchange wheel and method of fabrication. 3,702,156, 11-7-72, Cl. 165-10.000.
Rohrsen, Friedrich: *See—*
Preinfalk, Franz; Ulbricht, Dietmar; and Rohrsen, Friedrich, 3,656,588.
Rohte, Oskar Adolf: *See—*
Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; Kneip, Paul Hans Otto Josef; and Rohte, Oskar Adolf, 3,637,660.
Eriksoo, Edgar; Fex, Hans Jacob; Hogberg, Knut Bertil; Mollberg, Henri Rene; and Rohte, Oskar Adolf, 3,682,973.
Rohweder, Gerald D.; and Windish, Willis E., to Caterpillar Tractor Company. Retraction spring for clutches, brakes and like devices. 3,669,232, 6-13-72, Cl. 192-85.00a.
Roidt, Robert M., to Westinghouse Electric Corporation. Compressed-gas circuit interrupter having a pair of rapid transfer insulating nozzles. 3,670,126, 6-13-72, Cl. 200-148.
Roidt, Robert Michael; and Swanson, Bruce W., to Westinghouse Electric Corporation. Fluid-blast circuit interrupter with delayed moving contact travel. 3,659,065, 4-25-72, Cl. 200-148.
Roinestad, Gerald C., to Ashworth Bros., Inc. Edge driven conveyor system. 3,682,295, 8-8-72, Cl. 198-203.000.
Roiron, Jean-Pierre Louis; and Loyau, Guy, to Societe Anonyme, Societe Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique "Alcatel". Controlling of focussing of electronic bombardment. 3,691,341, 9-12-72, Cl. 219-121.0em.
Roisko, Timo O.: *See—*
Lepomaa, Lauri A.; and Roisko, Timo O., 3,684,435.
Roitshtein, Garri Shmilevich: *See—*
Ioffe, Vladimir Fedorovich; Roitshtein, Garri Shmilevich; Vyatskin, Iosif Yakovlevich; Tsyptkin, Vladimir Grigorievich; Alexandrov, Vladimir Nikolaevich; and Semin, Gennady Gavrilovich, 3,659,070.
Roje, Albert Norman, to Kango Electric Hammers Limited. Electric motor armature with stress relieved, resilient commutator load connections. 3,697,792, 10-10-72, Cl. 310-234.000.
Rojohn, Claire Eugene: *See—*
Malm, Donald Irwin; Christie, Craig Eugene; and Rojohn, Claire Eugene, 3,656,799.
Rokitsky, Karl, to Patentausswertung Vogelbusch Gesellschaft m.b.H. Process of producing yeast of low plasticity and high solids content. 3,681,199, 8-1-72, Cl. 195-98.000.
Rokitenetz, Walter, to Price-Pfister Brass Mfg. Co. Lavatory pop-up waste valve. 3,646,619, 3-7-72, Cl. 4-203.
Rokop, Joseph; and Hughes, Geoffrey W., to Pennsylvania Engineering Corporation. Continuous casting machine starting system. 3,682,233, 8-8-72, Cl. 164-274.000.
Rokop, Joseph; and Hughes, Geoffrey W., to Pennsylvania Engineering Corporation. Cyclic metal cutting device. 3,692,292, 9-19-72, Cl. 266-23.00k.
Rokop, Joseph; and Hughes, Geoffrey W., to Pennsylvania Engineering Corporation. Continuous casting machine reciprocation and withdrawal control system. 3,702,154, 11-7-72, Cl. 164-154.000.
Rokva, Marlen Mikhailovich: *See—*
Kiselev, Anatoly Efimovich; Mgebrishvili, Nadar Nikolaevich; Rokva, Marlen Mikhailovich; Makhatazde, Iosif Konstantinovich; Kakhiani, Shalva Viktorovich; Oganov, Sergei Ivanovich; Bakuradze, Georgy Valeryanovich; and Badalov, Petr Mikhailovich, 3,648,475.
Rolamite, Incorporated: *See—*
Erbert, Virgil; and Wilkes, Donald F., 3,651,732.
Erbert, Virgil, 3,691,461.
Gladow, Dean E.; and Wilkes, Donald F., 3,691,871.
Kerr, Douglas A., 3,666,899.
Wilkes, Donald F., 3,639,018.
Wilkes, Donald F., 3,670,579.
Wilkes, Donald F., 3,671,052.
Wilkes, Donald F., 3,686,965.
Wilkes, Donald F., 3,687,470.
Rolamite Technology Incorporated: *See—*
Wilkes, Donald F., 3,636,284.
Roland, George W.: *See—*
Hopkins, Richard H.; Roland, George W.; Partlow, William D.; and Steinbruegge, Kenneth B., 3,632,523.
Hopkins, Richard H.; Roland, George W.; Steinbruegge, Kenneth B.; and Partlow, William D., 3,679,597.
Melamed, Nathan T.; Roland, George W.; and Hopkins, Richard H., 3,659,221.
Roland, George W.; Hopkins, Richard H.; and Melamed, Nathan T., to Westinghouse Electric Corporation. Oxyapatite laser materials. 3,634,281, 1-11-72, Cl. 252-301.4.
Roland, George W.; Hopkins, Richard H.; and Melamed, Nathan T., to Westinghouse Electric Corporation. Oxyapatite lasers. 3,686,586, 8-22-72, Cl. 331-94.500.
Roland Offsetschneidfabrik Faber: *See—*
Abendroth, Paul; and Kaiser, Werner, 3,703,283.

- Roland Offsetschneidfabrik Faber & Schleicher AG: *See—*
Eibe, Helmut, 3,664,408.
Krochert, Karl-Heinz, 3,690,254.
Nentwich, Wilhelm, 3,650,211.
Preuss, Friedrich, 3,658,002.
Preuss, Friedrich; and Alix, Hans, 3,688,694.
Rolatape Corporation: *See—*
Evans, Wallace D., Jr., 3,673,693.
Evans, Wallace D., Jr., 3,696,510.
Rolauffs, Hans; Hoven, Hubert; Hippel, Hans; and Schafer, Max, to Maschinenfabrik Carl Zangs Aktiengesellschaft. Shuttle embroidery machine. 3,695,199, 10-3-72, Cl. 112-221.000.
Roldugin, Vladimir Ivanovich: *See—*
Sysun, Viktor Viktorovich; Skvortsov, Boris Vasilievich; Basov, Jury Georgievich; and Roldugin, Vladimir Ivanovich, 3,703,658.
Rolen, Hurschel H.: *See—*
Rollen, Wayne N.; Strong, Larry J.; and Rolen, Hurschel H., 3,648,146.
Roles, David Jack, to Eastern Products Corporation. Field installation clip for exposed grid systems. 3,677,589, 7-18-72, Cl. 287-189.36a.
Roley, George: *See—*
Vogt, Herwart C.; and Roley, George, 3,635,908.
Rolf, Dennis: *See—*
Kuhnis, Hans Herbert; and Rolf, Dennis, 3,679,799.
Rolf, Helmut, to International Standard Electric Corporation. Coil form. 3,648,208, 3-7-72, Cl. 336-208.
Rolf, Stuttgart: *See—*
Strehler, Erich; Kaumle, Fritz; and Rolf, Stuttgart, 3,686,971.
Rolle, Norman Frederick Ferdinand Joseph, to Instrumentation Laboratory, Inc. Electrical circuitry for logarithmic conversion. 3,659,082, 4-25-72, Cl. 235-150.53.
Rolfes, Paul E.; and Jamieson, Robert S., to Lorain Products Corporation. Oscillator synchronization. 3,651,427, 3-21-72, Cl. 331-153.
Rolin, Kenneth C., Sr.: *See—*
Leopoldi, Norbert; and Rolin, Kenneth C., Sr., 3,684,117.
Leopoldi, Norbert; and Rolin, Kenneth C., Sr., 3,704,605.
Rolker, John J., Jr., to Bell & Howell Company. Method of making printed circuits. 3,650,860, 3-21-72, Cl. 156-3.
Roll, Kenneth A., to Cleveland Technical Center, Inc. Apparatus and method for automatically servicing journal boxes of railroad cars. 3,635,310, 1-18-72, Cl. 184-3.
Roll, William D., to University of Toledo, The. N-cycloalkyl-N'-cyanoalkyl alkoxybenzamidines. 3,660,461, 5-2-72, Cl. 260-465.
Roll-A-Sheet: *See—*
Oats, Edwin O., 3,641,600.
Rolland, Albert, S.A.: *See—*
Grandpierre, Robert; and Robert, Alexandre, 3,705,237.
Thuillier, Yvonne, 3,669,846.
Thuillier, Yvonne, 3,683,070.
Valette, Raymond, 3,660,560.
Rolland, Gerard: *See—*
Kadah, Zaghloul; and Rolland, Gerard, 3,633,047.
Rolland, Jacques R.: *See—*
Hampton, Richard J.; Rolland, Jacques R.; and Gallo, Thomas, 3,704,131.
Rolland, Jacques R.; and Holme, John, to Ogilvie Flour Mills Company, Limited, The, mesne. Process for preparing dough and batters, and the flour and flour-based products. 3,640,730, 2-8-72, Cl. 99-91.
Rolland, Jean-Noel Gaston Andre: *See—*
Ducousset, Robert Eugene Raymond; Larmurier, Claude Fernand Emile; and Rolland, Jean-Noel Gaston Andre, 3,631,875.
Rolland, Marcel, to Regie Nationale des Usines Renault. Effort-regulating manual control devices. 3,688,598, 9-5-72, Cl. 74-479.000.
Rolland, Michel, to Les Laboratoires Albert Rolland. Oestrogens. 3,636,013, 1-18-72, Cl. 260-397.5.
Rolland, Thomas P.: *See—*
Matt, Richard J.; and Rolland, Thomas P., 3,692,375.
Van Dorn, Horace B.; Matt, Richard J.; and Rolland, Thomas P., 3,697,346.
Rolland, William C.: *See—*
Swanson, Kenneth W.; Rolland, William C.; and Kraft, Michael J., 3,703,957.
Rolland, William C., to Donaldson Company, Inc. Filter assembly with pleated filter element. 3,695,012, 10-3-72, Cl. 55-499.000.
Rolle, Fernand Jacques, to Scherr, R. P., Corporation, mesne. Composition for making gastro-resistant gelatin capsules. 3,653,934, 4-4-72, Cl. 106-125.
Rollei-Werke Franke & Heidecke: *See—*
Albrecht, Hermann Friedrich; and Strauss, Karl Peter, 3,699,427.
Strauss, Karl-Peter, 3,681,672.
Rollen, Wayne N.; Strong, Larry J.; and Rolen, Hurschel H. Alternator circuit protector. 3,648,146, 3-7-72, Cl. 320-25.
Roller Bearing Company of America: *See—*
Koch, Hans W., 3,633,398.
Roller, Donald C.: *See—*
Noell, Newton G.; and Roller, Donald C., 3,645,372.
Roller Gear Ltd.: *See—*
Schottler, Henry, 3,659,971.
Roller, Max F., to Art Drapery Studios, Inc. Tension drapery. 3,695,329, 10-3-72, Cl. 160-84.000.
Roller, Robert L., to Skagit Corporation. Dunnage clamp for forklift trucks. 3,684,113, 8-15-72, Cl. 214-653.000.
Roller Shear Corporation: *See—*
Wheeler, Donald J.; and Adie, William, 3,662,639.
Rollfinke, Fred J.: *See—*
Peters, John E.; and Rollfinke, Fred J., 3,669,634.
Rollings, Ernest J., Jr.: *See—*
Ullman, John E.; and Rollings, Ernest J., Jr., 3,696,838.
Rollins, Dallas W.: *See—*
Yurkoski, Frank R.; Coyle, Edward L.; Needham, Robert F.; and Rollins, Dallas W., 3,687,087.
Rollins, Eugene C. Carburetor having auxiliary turbine and idle fuel shutoff mechanism. 3,654,909, 4-11-72, Cl. 123-144.
Rollins, Henry W. Door lock with push action control. 3,636,740, 1-25-72, Cl. 70-92.
Rollins, Lester G. Cutter chain support means. 3,700,285, 10-24-72, Cl. 299-83.000.
Rollins, Thomas J., to Motorola, Inc. Voice privacy adapter. 3,651,404, 3-21-72, Cl. 325-32.
Rollins, William H., to Deering Milliken Research Corporation. Fabric process. 3,655,327, 4-11-72, Cl. 8-130.1.
Rollmann, Kent W.; and Wood, Harold V., to Phillips Petroleum Company. Diamine salts of dicarboxylic acids as additives for block polymers. 3,694,523, 9-26-72, Cl. 260-880.00b.
Rolls-Royce Limited: *See—*
Brealey, Edward Reginald, 3,694,616.
Briggs, Jack, 3,633,698.
Britt, Jack; and Honey, Alfred John, 3,640,638.
Britt, Jack, 3,706,509.
Carlisle, Dennis Richard, 3,690,093.
Carlisle, Dennis Richard, 3,691,765.
Champion, Keith Harold, 3,691,766.
Clark, Kenneth William; and Hopton, Reginald Frank, 3,651,583.
Colley, Rowan Herbert, 3,691,771.
Coyle, John Cadden; and Coulson, Derrick, 3,656,541.
Cuckson, Kenneth; and Chapman, Gerald W., 3,664,900.
Denning, Ralph Murch, 3,677,501.
Dolby, Geoffrey, 3,652,037.
Ellinger, John Henry, 3,672,788.
Goodard, John; Wilson, John Francis; and Glew, Derek Aubrey, 3,696,014.
Higginbotham, Gordon John Spencer; and Hall, Douglas Wilson, 3,677,324.
Hoyle, John; and Aspden, Derek, 3,635,070.
Johnson, Christopher Linley; and Whitmarsh, John Robert William, 3,648,460.
Jones, John Windsor, 3,656,222.
Jubb, Albert, 3,640,032.
Jubb, Albert, 3,656,872.
Kelly, John C.; and Moore, Christopher J., 3,670,843.
Kent, Nelson H.; and Fullagar, Keith P. L., 3,635,586.
Kitching, Anthony George; and Brown, Mervyn, 3,640,357.
Lynas, Derek L.; and Cross, Walter G., 3,641,550.
McMurtry, David Roberts, 3,643,868.
McMurtry, David Roberts; and Harris, Derek Percival, 3,666,251.
Monk, Jeffrey Keith, 3,656,297.
Morley, Frederick William Walton; and Watts, Wilfred Thomas, 3,671,145.
Morley, Frederick William Walton; Bennett, George Henry; Harvey, Richard George; and Wilson, Alan, 3,684,857.
Murray, Frederick R., 3,659,567.
Oldfield, Harry; Healey, Gordon Terry; and Ridgway, John Anthony, 3,659,788.
Palfreyman, Jack; Middleton, Henry Edward; and Baker, Alan Anthony, 3,632,460.
Palfreyman, Jack; and Middleton, Henry Edward, 3,640,640.
Palfreyman, Jack; and Middleton, Henry Edward, 3,645,829.
Poucher, Michael; and Williams, Michael Roy, 3,659,418.
Poucher, Michael; Brooks, Leslie John; and Morris, Geoffrey William, 3,662,556.
Rose, Philip George, 3,660,018.
Sotheran, Arthur; and Lewis, John S., 3,633,362.
Webb, Alan E., 3,642,530.
Whitney, Ian, 3,673,035.
Witherspoon, Harry, 3,672,032.
Rollwitz, William L.: *See—*
Stirrat, William A.; Rollwitz, William L.; and Persyn, Gilbert A., 3,643,181.
Rolloff, Walter Louis, to Malcolm, Andrew, Furniture Co., The. Urethane press. 3,685,944, 8-22-72, Cl. 425-410.000.
Rolph, Donald L., to Singer Company, The. Flexible shell printing element. 3,640,369, 2-8-72, Cl. 197-54.
Rolph-Clark-Stone Limited: *See—*
Engel, Karl, 3,658,237.

- Rolsten, Robert F. Survival-armor unit. 3,634,889, 1-18-72, Cl. 2-2.5.
- Romagny, Bernard: *See—*
Morgand, Jean Paul; Magnan, Henri; and Romagny, Bernard, 3,651,253.
- Romagos, Ernest L. Self-supporting rotary brush. 3,654,656, 4-11-72, Cl. 15-24.
- Roman, Leonard F.; and Elliott, George H. Annular electron gun. 3,655,903, 4-11-72, Cl. 13-31.
- Roman, Pierre Amedee: *See—*
Kunz, Patrick; Pfaff, Maurice Edgar; and Roman, Pierre Amedee, 3,658,527.
- Roman, Robert J.: *See—*
Bundschuh, John J.; Roman, Robert J.; and Thomson, Kenneth W., 3,703,333.
- Roman, Robert J., to Eastman Kodak Company. Web take-up device. 3,659,804, 5-2-72, Cl. 242-195.
- Romanuskas, William A.: *See—*
Mitchell, David F.; and Romanuskas, William A., 3,674,197.
- Romanuskas, William A., to Sorvall, Ivan, Inc. Centrifuge tube closure assembly. 3,635,370, 1-18-72, Cl. 220-46.
- Romanelli, Michael G., to Esso Research and Engineering Company. Preparation of unsaturated ethers. 3,670,029, 6-13-72, Cl. 260-612.00d.
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- Romanelli, Pat, to Ram Domestic Products Company. Air temperature control system. 3,640,455, 2-8-72, Cl. 236-49.
- Romanenko, Mikhail Trofimovich: *See—*
Nikitin, Yuri Filippovich; Romanenko, Nikolai Trofimovich; and Romanenko, Mikhail Trofimovich, 3,680,306.
- Romanenko, Nikolai Trofimovich: *See—*
Nikitin, Yuri Filippovich; Romanenko, Nikolai Trofimovich; and Romanenko, Mikhail Trofimovich, 3,680,306.
- Romani, Anthony R. Styling comb and method of making. 3,646,945, 3-7-72, Cl. 132-11.
- Romanic, Edward: *See—*
Kedzior, Andrzej; Horosko, Jan; Olsowski, Tadeusz; Romanic, Edward; and Zaremba, Stanislaw, 3,682,448.
- Romanin, Bruno. Method for producing paper-like laminated material reinforced with non-woven fabric, and reinforced composite laminated product therefrom obtained. 3,686,062, 8-22-72, Cl. 161-57.000.
- Romankiw, Lubomyr T.: *See—*
Hall, David W.; Lindholm, John A.; Romankiw, Lubomyr T.; and Schmeckenbecher, Arnold F., 3,702,263.
- Romankiw, Lubomyr T., and Wardly, George A., to International Business Machines Corporation. Thin film magnetic transducer head. 3,662,119, 5-9-72, Cl. 179-100.2.
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Ercoli, Alberto; Gardi, Rinaldo; and Romano, Casatenovo, 3,646,013.
- Romano, Domenic: *See—*
Edfors, John Eric; Romano, Domenic; and Quattrini, Victor, 3,691,432.
- Romano, Joseph J.; and Shatynski, John J., to Stauffer Chemical Corporation. Functional fluid composition. 3,707,500, 12-26-72, Cl. 252-78.000.
- Romanos, Nicholas D., to Combustion Engineering, Inc. Downcomer flow control. 3,653,363, 4-4-72, Cl. 122-32.
- Romanos, Nicholas D., to Combustion Engineering, Inc. Steam generator feedwater preheater. 3,661,123, 5-9-72, Cl. 122-34.
- Romanov, Georgy Fedorovich: *See—*
Lapkin, Konstantin Vasilievich; Romanov, Georgy Fedorovich; Goloviznin, Vladimir Ilich; and Popov, Lev Mikhailovich, 3,667,474.
- Romanowski, Chester J.; and Guido, Paul V., to Foster Wheeler Corporation. Skid detector for M. B. pulverizers. 3,638,034, 1-25-72, Cl. 307-119.
- Romanowski, Robert F., to Qualitrol Corporation. Flow control unit for bellows controlled sudden pressure rise relay. 3,646,970, 3-7-72, Cl. 138-46.
- Romanowski, Robert F.; and Cellini, Michael, to Qualitrol Corporation. Position indicating instrument with circuit control switches. 3,705,964, 12-12-72, Cl. 200-56.00r.
- Romanuk, Miroslav; Slama, Karel; and Sorm, Frantisek, to Ceskoslovenska akademie ved. Dihydrochlorides of farnesyl acid esters. 3,634,470, 1-11-72, Cl. 260-408.
- Romanuk, Miroslav; Slama, Karel; and Sorm, Frantisek, to Ceskoslovenska akademie ved. Process of preparing esters of 3,7,11-trimethyl-7,11-dichloro-2-dodecene-1-oic acid. 3,674,819, 7-4-72, Cl. 260-408.000.
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- Romanzi, Louis, Jr., to Irvin Industries Inc. Seat belt retractor. 3,635,420, 1-18-72, Cl. 242-107.4.
- Romanzi, Louis, Jr.; and Pfeiffer, Robert C., to Irvin Industries Inc. Safety belt buckle. 3,644,967, 2-29-72, Cl. 24-230.
- Romanzi, Louis, Jr., to Irvin Industries, Inc. Seat belt retractor cover. 3,659,801, 5-2-72, Cl. 242-107.0sb.
- Rombaux, Jean-Pierre M.: *See—*
Van Impe, Jean; Chaussonnet, Pierre E.; and Rombaux, Jean-Pierre M., 3,679,378.
- Romberg, Felix B. Vehicle opened gate. 3,657,842, 4-25-72, Cl. 49-364.
- Romberg, Felix B. Vehicle actuated automatic gate. 3,683,554, 8-15-72, Cl. 49-272.000.
- Rombrecht, Hans-Malte: *See—*
Schmidt, Karl; Hansch, Ferdinand; Rombrecht, Hans-Malte; and Beck, Hans-Joachim, 3,697,471.
- Rombusch, Konrad: *See—*
Magosch, Karl-Heinz; Rombusch, Konrad; and Eichers, Ursula, 3,701,765.
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- Rome Industries, Incorporated: *See—*
Coughran, Samuel J., Jr., 3,653,193.
- Romeny, Russell H. Back pack carrier system. 3,648,907, 3-14-72, Cl. 224-25.
- Romeo, Albert J.: *See—*
Breslin, Mary Anne; Cogar, George R.; Lee, Charles A.; Nedenriep, Donald O.; Romeo, Albert J.; Sevilla, Ernesto G.; and Sekse, Torkjell, 3,670,144.
- Romeo, Vincent P., to USM Corporation. Machines for sequencing electronic components. 3,669,309, 6-13-72, Cl. 221-225.000.
- Romer, Bendt Wegge: *See—*
Knudsen, Jorgen Dahlman; Romer, Bendt Wegge; and Valbjorn, Knud Vagn, 3,664,769.
- Leffers, Hans Ulrik; Romer, Bendt Wegge; and Valbjorn, Knud Vagn, 3,664,461.
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- Romer, Rudolf; and Hap, Heinz, to Rheinmetall G.m.b.H. Dummy shell. 3,667,395, 6-6-72, Cl. 102-92.700.
- Romerhaus, Bert W., to Whirlpool Corporation. Valve means for compressors and the like. 3,639,083, 2-1-72, Cl. 417-292.
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- Romero, Eduardo: *See—*
Rotolico, Anthony J.; and Romero, Eduardo, 3,707,615.
- Romero, Frank: *See—*
Artle, Robert E., Jr.; and Romero, Frank, 3,685,174.
- Romero, Roderic: *See—*
Allen, Larry Carl; and Romero, Roderic, 3,689,703.
- Eisenlohr, Dieter Moritz; and Romero, Roderic, 3,701,863.
- Romey, Herbert R. Visual teaching device for telling time. 3,702,507, 11-14-72, Cl. 35-39.000.
- Romhild, Peter; and Herpfer, Eugen, to Dornier System GmbH. Jet-propelled aircraft having vertical and horizontal flight properties. 3,669,371, 6-13-72, Cl. 244-7.00a.
- Romick, Roscoe B.; and Strauss, John G., to U.S. Natural Resources, Inc. Apparatus for collecting and discharging lumber. 3,700,120, 10-24-72, Cl. 214-16.00b.
- Romlet, Jean; and Cimadevilla, Armand, to Societe Anonyme des Entreprises. Underwater storage tanks. 3,680,275, 8-1-72, Cl. 52-227.000.
- Romnas Burks Aktiebolag: *See—*
Camitz, Carl-Henning, 3,664,121.
- Romney, Russell H. Mechanical connector system including bifurcate hinged connector means. 3,633,250, 1-11-72, Cl. 24-81.
- Romney, Russell H. Apparatus and method for producing and transmitting signals. 3,656,157, 4-11-72, Cl. 340-404.
- Romney, Russell H.; and Jensen, Billy M. Data system for medical and other environments. 3,656,687, 4-18-72, Cl. 234-2.
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Shaw, John K.; Romolo, John B.; and Levy, Charles, 3,684,666.
- Ron, Benjamin. Micrometer adopted to serve as a linear measuring tool. 3,633,278, 1-11-72, Cl. 33-167.
- Ronai, Kenneth S.; and Spanier, Henry C., to Nabisco, Inc. Instant oat cereal product. 3,640,728, 2-8-72, Cl. 99-80.
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- Ronai, Kenneth S.; and Spanier, Henry C., to Nabisco, Inc. Process for preparing an instant oat cereal. 3,704,134, 11-28-72, Cl. 99-83.000.
- Ronayne, Ronald J.; and Ketterling, Edwin, to White Farm Equipment Company. Power take-off control valve. 3,669,229, 6-13-72, Cl. 192-12.00c.
- Ronco, Karl: *See—*
Hart, Stefan; and Ronco, Karl, 3,635,963.
- Mueller, Willy; Ronco, Karl; and Mory, Rudolf, 3,691,149.
- Schlunke, Hans-Peter; and Ronco, Karl, 3,656,953.

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- Ronco, Karl; and Mueller, Willy, to Ciba Limited. Disazo pigments. 3,658,785, 4-25-72, Cl. 260-184.
- Rondas, Ivan V.; and Christy, Mark H., to Sub' Terrain Irrigation Co. Fluid emitter. 3,693,888, 9-26-72, Cl. 239-535.000.
- Ronden, Clifford P.: *See—*
Schwoegler, Edward J.; and Ronden, Clifford P., 3,682,844.
- Rondstedt, Christian S., Jr.: *See—*
Mantell, Gerald J.; and Rondstedt, Christian S., Jr., 3,676,500.
- Rondstedt, Christian S., Jr., to Du Pont de Nemours, E. I., and Company. Aromatic acid chloride process. 3,668,247, 6-6-72, Cl. 260-544.00m.
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Bosworth, Robert H.; and Roney, Burton W., 3,645,001.
- United States of America, National Aeronautics and Space Administration, 3,680,830.
- Roney, Richard N.: *See—*
Giardini, Dante S.; Preston, George A.; and Roney, Richard N., 3,640,163.
- Rongved, Leif, to Bell Telephone Laboratories, Incorporated. Lead screw shaft with adjustable pitch. 3,659,473, 5-2-72, Cl. 74-424.8.
- Ronk Electrical Industries, Inc.: *See—*
Ronk, Leroy B., 3,670,238.
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- Ronkes, Carel H.: *See—*
Carter, Dale K.; and Ronkes, Carel H., 3,704,953.
- Ronn, Paul W.: *See—*
Zook, Elmer S.; and Ronn, Paul W., 3,651,678.
- Ronner, Otto, to Starrfrasmachinen A.G. Automatic tracer assembly for copying machine tools. 3,631,759, 1-4-72, Cl. 90-62.
- Ronning, Jacob A. Service stool. 3,656,809, 4-18-72, Cl. 297-461.
- Ronning, Richard L. Method and apparatus for enhancing the separation of particulate material from an effluent stream. 3,643,404, 2-22-72, Cl. 55-92.
- Ronnings, Jacob A. Apparatus for repairing damaged carpeting. 3,697,358, 10-10-72, Cl. 156-514.000.
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Cox, Ernest Francis, 3,674,980.
- Crookes, Le Roy W., 3,644,990.
- Schlamp, Herman, 3,637,334.
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- Rontsch, Sigfrid, to VEB Sprengstoffwerk Schonebock. Method for the production of explosives. 3,695,953, 10-3-72, Cl. 149-56.000.
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Rassat, Andre; and Ronzaud, Jacques, 3,704,235.
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Repko, Louis L.; and Ronzi, Richard C., 3,678,906.
- Ronzio, Anthony R.; and Pull, Bernard T., to Bio-Organic Chemicals, Inc. Composition for eliminating efflorescence in Portland cement products. 3,645,763, 2-29-72, Cl. 106-90.
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- Roob, Elwood L.; and Schier, Richard R., to Eaton Yale & Towne, Inc. Fluid cooled torque transmitting device. 3,631,943, 1-4-72, Cl. 188-264.
- Rood, Alvin A.: *See—*
Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., 3,635,125.
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- Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., 3,676,642.
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- Stumphauzer, William C.; Hogstrom, Edwin F.; Nord, Eric T.; Schneider, Richard E.; and Rood, Alvin A., 3,697,313.
- Rood, Alvin A., to Nordson Corporation. Spray nozzle. 3,658,257, 4-25-72, Cl. 239-589.
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- Rood, William H.: *See—*
Fuller, Roger L.; Kaye, Robert K.; Oliver, Joseph J.; and Rood, William H., 3,646,580.
- Roodvoets, Roger J.; and Stapert, James, Jr., to Alignment Systems, Inc. Target system for laying sewer pipes. 3,634,941, 1-18-72, Cl. 33-74.
- Roof, Carl W., to Navarm Chemical Co. Envelope closure. 3,642,191, 2-15-72, Cl. 229-77.
- Roof, Ronald L., to Carrier Corporation. Air conditioning apparatus. 3,684,170, 8-15-72, Cl. 236-38.000.
- Roofe, Willard L., to General Motors Corporation. Assembly machine and method. 3,643,318, 2-22-72, Cl. 29-434.
- Rooijen, Jan Van, to U.S. Philips Corporation. Potentiometer comprising a transport screw. 3,639,879, 2-1-72, Cl. 338-180.
- Rooke, Sydney William, to Soves Limited. Sorting conveyor arrangements. 3,651,940, 3-28-72, Cl. 209-125.
- Rooke, Sydney William; and Coston, Ronald Francis, to Sovex Limited. Container-unloading apparatus. 3,651,967, 3-28-72, Cl. 214-307.
- Rooker, Bobbie E.: *See—*
Smith, Harry A.; and Rooker, Bobbie E., 3,668,191.
- Rooks, John C., to Schjeldahl, G. T., Company. Display apparatus having plural gas diode stages. 3,668,641, 6-6-72, Cl. 340-168.
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- Roome, Albert T.: *See—*
Mott, Murray H.; Wehner, Donald R.; and Roome, Albert T., 3,662,388.
- Roome, Douglas P.: *See—*
Parvin, Allan I.; and Roome, Douglas P., 3,668,820.
- Roome, Theodore F., Jr.: *See—*
Tauscher, Kenneth E.; Roome, Theodore F., Jr.; and Coon, David S., 3,699,449.
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Tinghitella, Michael J.; and Roon, Kenneth E., 3,694,238.
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Carlson, John A.; Hoff, Dale R.; and Rooney, Clarence S., 3,646,027.
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- Rooney, John P., to Varian Associates. Waveguide load. 3,634,783, 1-11-72, Cl. 333-22.
- Roos, Charles J. Structure and a method for isolating a building against radioactive fallout. 3,680,498, 8-1-72, Cl. 109-1.00s.
- Roos, Dirk Godfried Johannes, to Trans-Atlas A.G. Continuous web feeding apparatus. 3,702,168, 11-7-72, Cl. 226-110.000.
- Roos, Ernst: *See—*
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- Schubart, Rudiger; Roos, Ernst; and Abele, Manfred, 3,671,503.
- Schubart, Rudiger; Eholzer, Ulrich; Kampermann, Theo; and Roos, Ernst, 3,697,433.
- Wagner, Klaus; and Roos, Ernst, 3,659,004.
- Wagner, Klaus; and Roos, Ernst, 3,689,489.
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- Roos, Ernst; and Wagner, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Benzo-tris-thiophenes. 3,663,568, 5-16-72, Cl. 260-330.5.
- Roos, Ernst; and Wagner, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of aromatic lactones. 3,663,575, 5-16-72, Cl. 260-343.3.
- Roos, Hugo: *See—*
Fischer, David; Kohler, Rudolf; Roos, Hugo; and Merker, Joachim, 3,685,845.
- Roos, Jan, to U.S. Philips Corporation. Transducer for converting acoustic vibrations into electrical oscillations, and vice versa, in the form of a diaphragm coated with at least one layer of a piezoelectric material. 3,654,402, 4-4-72, Cl. 179-110.
- Roos, Jan, to U.S. Philips Corporation, mesne. Thin tape or foil made of an electrically insulating synthetic material. 3,674,629, 7-4-72, Cl. 161-214.000.
- Roos, Jan; and Boone, Salomon, to U.S. Philips Corporation. Electroacoustic transducer having a diaphragm made of at least one layer of piezoelectric material. 3,683,129, 8-8-72, Cl. 179-110.00a.
- Roos, Robert R., to Mueller Co. Plastic service fitting and method and apparatus for attaching same. 3,633,599, 1-11-72, Cl. 137-15.
- Roos, Robert R., to Mueller Co. Connection fitting for a pipe. 3,677,578, 7-18-72, Cl. 285-162.000.

- Roos, Robert R., to Mueller Co. Plastic service fitting and method and apparatus for attaching same. 3,692,614, 9-19-72, Cl. 156-580,000.
- Roosa, Vernon D. Flushing device. 3,644,940, 2-29-72, Cl. 4-47.
- Roosova, Milena: *See—*
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- Root, Donald S. Apparatus for controlling the temperature of a heat exchange medium. 3,658,123, 4-25-72, Cl. 165-22.
- Root, George L.: *See—*
United States of America, National Aeronautics and Space Administration, 3,658,295.
- Root, George R., to Root Manufacturing Company, Inc. Riding lawn mower. 3,686,840, 8-29-72, Cl. 56-15,800.
- Root, James R.; and Hill, Thomas D., to Ruskin Manufacturing Company. Wrap-around damper frame. 3,677,517, 7-18-72, Cl. 251-366,000.
- Root Manufacturing Company, Inc.: *See—*
Root, George R., 3,686,840.
- Root, Warren W.; and Frank, William W., to Borg-Warner Corporation. Forced draft furnace safety system. 3,650,262, 3-21-72, Cl. 126-110.
- Root, William Edward, to Kennedy Von Saun Corporation. Method of and system for controlling grinding mills. 3,690,570, 9-12-72, Cl. 241-34,000.
- Rootes Motors Limited: *See—*
Harper, Stephen James, 3,631,738.
Harper, Stephen James, 3,632,924.
Litchfield, Edward Francis, 3,647,257.
Milner, Peter James; and Hodkin, Richard Keith, 3,640,587.
- Roots, Philip Stanley, to St. Bernard Plastics Limited. Insulating means suitable for use in handling high volatile power lines. 3,688,017, 8-29-72, Cl. 174-46,000.
- Rope, Barry S.; and Huffaker, James E., to Kimberly-Clark Corporation. Method of fabricating a casting mold. 3,683,486, 8-15-72, Cl. 29-428,000.
- Roper Corporation: *See—*
Betzer, Cloyd L., 3,679,467.
Rosenwald, Robert H., 3,651,371.
- Roper, Daniel W., to North American Rockwell Corporation. Infinitely variable planetary transmission. 3,670,594, 6-20-72, Cl. 74-689,000.
- Roper, Don Albert: *See—*
Kreuz, John Anthony; and Roper, Don Albert, 3,684,646.
- Roper, Hans-Joachim: *See—*
Eckert, Klaus-Dieter; and Roper, Hans-Joachim, 3,680,117.
- Roper, John. Thermally activated power brake system and pump therefor. 3,658,387, 4-25-72, Cl. 303-10.
- Roper, Ralph E., to Wallace Expanding Machines, Inc. Method and apparatus for processing coiled sheet metal. 3,686,921, 8-29-72, Cl. 72-302,000.
- Roper, William H.; Ross, Robert N.; and Visnovits, Gabor, to Plant Industries, Inc. Flowable substances dispenser. 3,672,543, 6-27-72, Cl. 222-183,000.
- Ropiequet, Richard L.; and Montag, Margaret J., to Alta Industries, Incorporated. Process of making articles from films of thermoplastic material. 3,654,017, 4-4-72, Cl. 156-251.
- Ropp, Richard C., to Westinghouse Electric Corporation. Method of preparing rare earth metal phosphate vanadate luminescent compositions having acicular crystal habit. 3,661,791, 5-9-72, Cl. 252-301.4.
- Ropp, Richard C., to Westinghouse Electric Corporation. Process for coating lehring-sensitive phosphor onto lamp envelope. 3,679,452, 7-25-72, Cl. 117-33,500.
- Roques, Rodney A.; and Gray, Foster L., to Texas Instruments, Incorporated. Use of vapor phase deposition to make fused silica articles having titanium dioxide in the surface layer. 3,644,607, 2-22-72, Cl. 264-60.
- Rorer, William H., Inc.: *See—*
Diamond, Julius; and Martin, Gustav J. (said Diamond assor. to), 3,642,865.
Diamond Julius, 3,669,971.
Diamond, Julius, 3,704,313.
- Rorick, William G.; and Lewis, Herbert O., to Collins Radio Company. Quartz crystal resonator tuning control apparatus. 3,670,693, 6-20-72, Cl. 118-5,000.
- Rorie, Euell R.: *See—*
Gale, Walter W.; and Rorie, Euell R., 3,637,017.
- Rosa, Albert G.: *See—*
Arrance, Frank C.; and Rosa, Albert G., 3,647,554.
- Rosa, Albert G.; and Birrer, George W., to McDonnell Douglas Corporation. Heat sealed flexible envelope separator and battery embodying same. 3,703,417, 11-21-72, Cl. 136-145,000.
- Rosa, Daniel F., to Medi-Plas Sciences, Inc. Roof ventilator. 3,685,426, 8-22-72, Cl. 98-83,000.
- Rosa, John, to Westinghouse Electric Corporation. Inverter apparatus and method for high frequency lamp operation. 3,707,648, 12-26-72, Cl. 315-231,000.
- Rosa, Juan, Antismog device for cleaning, burning, and muffling the exhaust gases and engine compartment fumes of internal combustion engines. 3,696,619, 10-10-72, Cl. 60-297,000.
- Rosaen, Nils O. Fluid system with self cleaning filter. 3,637,083, 1-25-72, Cl. 210-497.
- Rosaen, Nils O., to Parker-Hannifin Corporation. Multiple filter device. 3,666,101, 5-30-72, Cl. 210-90.
- Rosaen, Nils O. Flow indicator device having pressure balanced sealing shaft. 3,685,354, 8-22-72, Cl. 73-228,000.
- Rosan, Jose, Sr. Apparatus and method for extracting the essence from a food substance by controlled agitation. 3,654,852, 4-11-72, Cl. 99-323.
- Rosan, Jose, Sr. Fittings for high pressure fluid lines. 3,702,707, 11-14-72, Cl. 285-23,000.
- Rosano, Joseph George, Jr.; and Coffman, J. D., to Gamon-Calmet Industries, Inc. Fluid meter. 3,662,600, 5-16-72, Cl. 73-257,000.
- Rosasco, Nate, Jr., to Northwestern Golf Company. Golf club with finger orientating grip. 3,706,453, 12-19-72, Cl. 273-81,400.
- Rosatelli, Carlo; and Shroff, Arvind, to Thomson-CSF. Isothermal furnace. 3,646,320, 2-29-72, Cl. 219-401.
- Rosauer, Peter J.: *See—*
Wendt, John A.; and Rosauer, Peter J., 3,681,977.
- Rosback, Donald H., to Universal Oil Products Company. Method for preparing copper-exchanged type X zeolite. 3,649,176, 3-14-72, Cl. 23-111.
- Rosback, Donald H., to Universal Oil Products Company. Method for preparing copper-exchanged type Y zeolite. 3,649,177, 3-14-72, Cl. 23-111.
- Rosborough, Robert S., Jr.; and Wright, Luther M., to Eastman Kodak Company. Web splicing and identifying apparatus. 3,634,171, 1-11-72, Cl. 156-506.
- Rosch, Gunter: *See—*
Deubel, Reinhold; Schinzel, Erich; Hemmerling, Volker; and Rosch, Gunter, 3,689,429.
Frischkorn, Hans; Schinzel, Erich; and Rosch, Gunter, 3,655,574.
Horn, Anton; Schinzel, Erich; and Rosch, Gunter, 3,679,668.
Rosch, Gunter; Linke, Werner; Smerz, Otto; and Schinzel, Erich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the optical brightening of fibrous materials made from polyacrylonitrile. 3,690,947, 9-12-72, Cl. 117-33,01.
- Rosch, Hans Michael; and Limberger, Ernst, to Landis & Gyr AG. Quick-acting electric switch. 3,694,597, 9-26-72, Cl. 200-67,000.
- Rosch, Helmut; Neburg, Herbert; and Schlenz, Erich; deceased (by Schlenz, Frieda; heir), to Siemens Aktiengesellschaft. Remote-controlled magnetically operable switch. 3,689,858, 9-5-72, Cl. 335-188,000.
- Rosch, Jakob, to Schmid, Heinrich, vorm. Schmid & Sohn. Apparatus for sorting similar-type objects. 3,645,395, 2-29-72, Cl. 209-91.
- Roscher, Gunter; and Schmitz, Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of acetaldehyde from vinyl acetate. 3,647,882, 3-7-72, Cl. 260-601.
- Roscoe, Gavin E.: *See—*
Crawford, Raymond V.; and Roscoe, Gavin E., 3,644,237.
- Roscoe, Stanley N.: *See—*
Richardson, Donald W.; Roscoe, Stanley N.; and Streeter, Edward, 3,652,836.
- Rose, Anthony T. Surgical instrument. 3,670,415, 6-20-72, Cl. 30-349,000.
- Rose, Arthur W. Tie rod puller. 3,680,835, 8-1-72, Cl. 254-29,000.
- Rose, Bennie A., to Heyl and Patterson, Inc. Railroad car positioner. 3,695,185, 10-3-72, Cl. 104-176,000.
- Rose, Bennie A., to Heyl and Patterson, Inc. Apparatus for crushing large lumps of coal and the like. 3,698,648, 10-17-72, Cl. 241-33,000.
- Rose, Boyd W., to FMC Corporation. Combination stacker-feeder. 3,643,817, 2-22-72, Cl. 214-6.
- Rose, Downs & Thompson Limited: *See—*
Lloyd, Anthony Michael; and Alexander, David George, 3,696,133.
- Rose, Duane L.: *See—*
Santirocco, Louis J.; Rose, Duane L.; and Scofield, John W., 3,672,664.
- Rose, Edward A., to Optronix, Inc. Optical communications system with improved bias control for photosensitive input device. 3,657,543, 4-18-72, Cl. 250-199.
- Rose, Edward A.; Krohn, Richard H.; and Slater, Donald E., to Optronix, Inc. Intrusion detection system responsive to interruption of a transmitted beam. 3,704,461, 11-28-72, Cl. 340-258,000.
- Rose, Emery T.; and Pezzanite, Larry V., to Union Carbide Corporation. Structural carbonaceous materials having improved surface erosion characteristics. 3,639,159, 2-1-72, Cl. 117-161.
- Rose, Fred K.: *See—*
Metcalfe, Arthur G.; and Rose, Fred K., 3,644,698.
- Rose, Frederick A.: *See—*
Kufirin, Frederick W.; Virnoche, Paul R.; Allen, Donald J.; Gokey, Phillip E.; and Rose, Frederick A., 3,694,825.
- Rose, Frederick G.: *See—*

- Theile, Kenneth W.; Lennert, David A.; and Rose, Frederick G., 3,634,266.
- Rose, Harry J., to Tenna Corporation. Tape cartridge player transducer head cleaner. 3,636,276, 1-18-72, Cl. 179-100.2.
- Rose, Henry J.: *See—*
Turbak, Albin F.; and Rose, Henry J., 3,676,382.
- Rose, Henry J.; Turbak, Albin F.; and Leahy, Thomas E., to Tee-Pak, Inc. Easily peeled synthetic casing. 3,653,928, 4-4-72, Cl. 99-176.
- Rose, Henry J.; and Turbak, Albin F., to Tee-Pak, Inc. Easily peeled synthetic casing. 3,658,560, 4-25-72, Cl. 99-176.
- Rose, Henry J.; and Turbak, Albin F. Treatment of sausage casing for easy peeling. 3,658,561, 4-25-72, Cl. 99-176.
- Rose, Henry J.; Turbak, Albin F.; and Leahy, Thomas E., Jr., to Tee-Pak, Inc. Treatment of sausage casing for easy peeling. 3,674,511, 7-4-72, Cl. 99-176,000.
- Rose, Henry J.; and Turbak, Albin F., to Tee-Pak, Inc. Oil modified cellulose sausage casings. 3,674,523, 7-4-72, Cl. 106-168,000.
- Rose, Herbert J.: *See—*
Dyer, James N.; Post, Leo B.; and Rose, Herbert J., 3,650,685.
- Rose, Howard L.: *See—*
Midulla, Guiseppe, 3,699,046.
- Rose, J. Sterling, to Birko Chemical Corporation. Method for taking and transferring bacteria samples. 3,661,718, 5-9-72, Cl. 195-103,500.
- Rose, James E.: *See—*
Zimmer-Galler, Roswitha; and Rose, James E., 3,701,697.
- Rose, James S.: *See—*
Carleton, Peter S.; Farrissey, William J., Jr.; and Rose, James S., 3,701,756.
- McLaughlin, Alexander; and Rose, James S., 3,676,380.
- Rose, John A., to TRW Inc. Means for supporting core in open ended shell mold. 3,659,645, 5-2-72, Cl. 164-353.
- Rose, John Brewster: *See—*
Barr, Dennis Arthur; and Rose, John Brewster, 3,634,355.
Dixon, David Rodney; Rose, John Brewster; and Turton, Cecil Nigel, 3,671,486.
Nield, Eric; and Rose, John Brewster, 3,652,726.
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- Rose, John Brewster; Mathews, Carl Fraser; Nield, Eric; and Vincent, Peter Incedon, to Imperial Chemical Industries Limited. Thermoplastic compositions. 3,634,547, 1-11-72, Cl. 260-876.
- Rose John L., Jr.; and Smith, Richard L., to Velsicol Chemical Corporation, mesne. Process for dyeing natural and synthetic polyamide fibers with acid dyestuff and composition therefor. 3,634,016, 1-11-72, Cl. 8-54.
- Rose, John W., to General Motors Corporation. Masking to prevent autodeposition of epitaxial deposits. 3,663,319, 5-16-72, Cl. 148-175.
- Rose, Kenneth Ralph: *See—*
Wamsley, Robert Alan; Parnett, John Edward; Rose, Kenneth Ralph; and Jones, C. J. (said Stephan, 3,634,298).
- Rose, Larry A. Extension barrel for use in firing projectiles with firearm using blank cartridges. 3,690,026, 9-12-72, Cl. 42-77,000.
- Rose, Louis: *See—*
Barough, Victor; Glenn, Robert; and Rose, Louis, 3,669,019.
- Rose, Marion S., to Litton Systems, Inc. Deflectable light maser. 3,678,409, 7-18-72, Cl. 331-94,500.
- Rose, Marshall G., Jr., to Ampex Corporation. Edit control for video tape record system. 3,647,951, 3-7-72, Cl. 178-6.6.
- Rose, Millard F.; and Talley, James C., to United States of America, Navy. Reactive focusing warhead concept. 3,664,262, 5-23-72, Cl. 102-56,000.
- Rose, Nelson J. Loudspeaker balancing system. 3,678,202, 7-18-72, Cl. 179-1,040.
- Rose, Philip George, to Rolls-Royce Limited. Method of manufacturing carbon fibre. 3,660,018, 5-2-72, Cl. 23-209.4.
- Rose, Robert C., to Rosemount Engineering Company. Linearized resistance bridge circuit operable in plurality from a common power supply. 3,651,696, 3-28-72, Cl. 73-362.
- Rose, Robert C., to Rosemount Engineering Company. Two-wire current transmitter employing a stabilized current source in one electrical circuit containing control means in series therewith for controlling a direct current amplifier contained in a parallel circuit. 3,675,122, 7-4-72, Cl. 324-62,000.
- Rose, Roger A.: *See—*
Hudson, Robert B.; Mesmer, Robert E.; and Rose, Roger A., 3,650,686.
- Rose, Roger A.; and Fox, Thomas U., to Monsanto Company. Handling of raffinates from wet phosphoric acid purification. 3,684,439, 8-15-72, Cl. 423-321,000.
- Rose, Ronald N. Electrostatic precipitator cell for desk or tabletop air purifier. 3,678,655, 7-25-72, Cl. 55-128,000.
- Rose, Selwyn H.: *See—*
Reynard, Kennard A.; and Rose, Selwyn H., 3,700,629.
- Rose, Selwyn H.; and Reynard, Kennard A., to Horizons Incorporated. Curable fluorophosphazene polymers. 3,702,833, 11-14-72, Cl. 260-2,000.
- Rose, Sidney. Portable display device. 3,685,666, 8-22-72, Cl. 211-178,000.
- Rose, Stephen C.: *See—*
Marsden, Sullivan S., Jr.; and Rose, Stephen C., 3,670,752.
- Rose, Walter: *See—*
Quante, Hermann; Neumann, Peter; and Rose, Walter, 3,636,240.
- Rose, Walter, K.G., Firma: *See—*
Quante, Hermann; Neumann, Peter; and Rose, Walter, 3,636,240.
- Rose, William Henry: *See—*
Lockard, Joseph L.; and Rose, William Henry, 3,699,279.
Lockard, Joseph Larue; and Rose, William Henry, 3,665,127.
- Rose, Willie: *See—*
Ostroff, Nathaniel S.; and Rose, Willie, 3,667,049.
- Rose-Miller, Brigadier George Patrick. Method for handling feeding devices for young animals. 3,698,952, 10-17-72, Cl. 134-22,000.
- Rose-Miller, Brigadier George Patrick. Container for transport of animals. 3,703,159, 11-21-72, Cl. 119-19,000.
- Rosebach, Edward J., Jr. Light reflective wheel covers. 3,639,036, 2-1-72, Cl. 350-97.
- Roseboom, Antonius Hendrikus Cornelis, to U.S. Philips Corporation. Wire unwinding device. 3,632,061, 1-4-72, Cl. 242-129.
- Rosebrook, Roy, Sr., to Anellux Systems Corporation, mesne. Booster servo controlled valve control mechanism. 3,675,890, 7-11-72, Cl. 251-3,000.
- Roseby, Bernard: *See—*
White, Jessie N.; and Roseby, Bernard, 3,672,790.
- Rosecrants, William J., Jr.: *See—*
Fairbanks, Charles W.; and Rosecrants, William J., Jr., 3,690,892.
- Rosegay, Avery: *See—*
Tull, Roger J.; Tristram, Edward W.; and Rosegay, Avery, 3,637,812.
- Roselius, Ronald R., to Chevron Research Company. Heavy oil conversion. 3,684,688, 8-15-72, Cl. 208-50,000.
- Roselius, Wilhelm: *See—*
Lehmann, Gunter; Neunhoeffer, Otto; Roselius, Wilhelm; and Vitzthum, Otto, 3,663,581.
- Rosemount Engineering Company: *See—*
Brown, William L., 3,694,789.
De Leo, Richard V.; and Hagen, Floyd W., 3,646,811.
Frick, Roger L., 3,646,538.
Grindheim, Earl A., 3,680,384.
Rose, Robert C., 3,651,696.
Rose, Robert C., 3,675,122.
- Rosemount Engineering Company Limited: *See—*
Johnston, James Stewart, 3,665,766.
Johnston, James Stewart, 3,697,768.
Southern, Michael, 3,646,454.
- Rosemount Inc.: *See—*
Geronime, Robert L., 3,697,726.
Serrano, Leonardo V., 3,674,963.
- Rosen, Arye: *See—*
Assour, Jacques Mayer; Rosen, Arye; and Reynolds, James Francis, 3,659,222.
- Rosen, Cyril; and Patok, Stan. Dental operating light. 3,689,761, 9-5-72, Cl. 240-41,150.
- Rosen, Fred D., to North American Rockwell Corporation. Particle-size measuring apparatus. 3,703,641, 11-21-72, Cl. 250-218,000.
- Rosen, George: *See—*
Epstein, Paul; Cunningham, James; Wernikoff, Robert E.; and Rosen, George, 3,646,257.
- Rosen, Harold A.: *See—*
Ajioka, James S.; and Rosen, Harold A., 3,680,143.
Hudspeth, Thomas; and Rosen, Harold A., 3,699,454.
- Rosen, Harold A., to Hughes Aircraft Company. Dual mode rotary microwave coupler. 3,668,567, 6-6-72, Cl. 333-21,00a.
- Rosen, Henri Elliott. Shoe construction. 3,686,777, 8-29-72, Cl. 36-2,50b.
- Rosen, Herbert J.: *See—*
Dyer, James N.; Post, Leo B.; and Rosen, Herbert J., 3,684,724.
- Rosen, Ian K. Squeegee blade. 3,636,583, 1-25-72, Cl. 15-250.36.
- Rosen, Ian K.; and Holmgren, William C., to AGSRAD, Inc., mesne. Bead seater. 3,654,980, 4-11-72, Cl. 157-1.1.
- Rosen, Ian K., to Wypco Corporation, The. Spine piece for squeegee blades. 3,659,310, 5-2-72, Cl. 15-250.42.
- Rosen, Jacob J.: *See—*
Johnson, Richard Bruce; and Winn, George, 3,699,714.
Rightmire, Glenn K.; Bossler, Alfred T.; Burnell, Arthur E.; and Helms, August R., 3,706,330.
- Rosen, Karl Isac Joel. Thread storage and delivery device for textile machines. 3,642,219, 2-15-72, Cl. 242-47.12.
- Rosen, Karl Isac Joel. Yarn storing device. 3,648,939, 3-14-72, Cl. 242-47.01.
- Rosen, Karl Isac Joel. Thread storage and delivery device for textile machines. 3,672,590, 6-27-72, Cl. 242-47.120.
- Rosen, Karl Isac Joel. Thread delivery and storage device. 3,687,384, 8-29-72, Cl. 242-47.120.
- Rosen, Karl Isac Joel. Yarn storing device. 3,702,176, 11-7-72, Cl. 242-47.010.
- Rosen, Karl Isac Joel. Combined thread-feeding and lubricating device for knitting machines. 3,703,090, 11-21-72, Cl. 66-132,000.
- Rosen, Marvin: *See—*
Fath, Joseph; and Rosen, Marvin, 3,700,612.

- Rosen, Melvin Harris; De Stevens, George; and Blatter, Herbert Morton, to Ciba Corporation. 2-Alkenyl-thiazoles. 3,634,413, 1-11-72, Cl. 260-240.
- Rosen, Melvin Harris; and Blatter, Herbert Morton, to Ciba-Geigy Corporation. Arylthiet-1,1-dioxides as anti-inflammatory agents. 3,639,614, 2-1-72, Cl. 424-275.
- Rosen, Melvin Harris; and Blatter, Herbert Morton, to Ciba Corporation. Halothiet-1,1-dioxide as anti-inflammatory agents. 3,644,632, 2-22-72, Cl. 424-275.
- Rosen, Melvin Harris; and Blatter, Herbert Morton, to Ciba-Geigy Corporation. 1,2,4-Thiadiazoles. 3,692,794, 9-19-72, Cl. 260-302.0sd.
- Rosen, Melvin Harris; and Blatter, Herbert Morton, to Ciba-Geigy Corporation. Thiophene-1,1-dioxides. 3,706,769, 12-19-72, Cl. 260-332.100.
- Rosen, Meyer R.; and Prokai, Bela, to Union Carbide Corporation. Method of extinguishing fires and compositions therefor containing cationic silicone surfactants. 3,677,347, 7-18-72, Cl. 169-1.00a.
- Rosen, Milton: *See*—
Schumann, John L.; Schindeler, John W.; and Rosen, Milton, 3,641,740.
- Rosen, Perry: *See*—
Kierstead, Richard Wightman; and Rosen, Perry, 3,655,653.
Kierstead, Richard Wightman; and Rosen, Perry, 3,657,227.
- Rosen, Philip J., to Babcock & Wilcox Company, The. Plural supply stepper motor control system. 3,644,817, 2-22-72, Cl. 318-696.
- Rosen, Philip J., to Babcock & Wilcox Company, The. Stepping motor control system. 3,648,144, 3-7-72, Cl. 318-696.
- Rosen, Philip J., to Diamond Power Specialty Corporation. Reactor control including individual and group rod motor controls. 3,706,921, 12-19-72, Cl. 318-564.000.
- Rosen, Ruth, to Automatic Packaging Machinery Co. Slide lock. 3,693,657, 10-3-72, Cl. 292-57.000.
- Rosen, Samuel R.: *See*—
Baker, Robert G.; and Rosen, Samuel R., 3,690,518.
Nord, Eric T.; Rosen, Samuel R.; Scarbrough, Don R.; Vilagi, Burton J.; and Runstadler, Peter W., Jr., 3,635,400.
- Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., to Nordson Corporation. Double-acting hydraulic pump and air motor therefor. 3,635,125, 1-18-72, Cl. 91-55.
- Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., to Nordson Corporation. Muffler for pneumatic motor. 3,675,732, 7-11-72, Cl. 181-36.00a.
- Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., to Nordson Corporation. Modular apparatus for heating circulating coating material. 3,676,642, 7-11-72, Cl. 219-301.000.
- Rosen, Samuel R.; Rood, Alvin A.; and Scharf, Donald R., to Nordson Corporation. Valve for pneumatic motor. 3,692,274, 9-19-72, Cl. 251-75.000.
- Rosen, Sol A., to Assembly Cloth Company. Grille cloth assembly. 3,666,610, 5-30-72, Cl. 161-113.000.
- Rosenbauer, Charles H., to Bausch & Lomb Incorporated. Manufacture of multi-focal ophthalmic lens molds. 3,649,236, 3-14-72, Cl. 65-31.
- Rosenbaum, Barry M.: *See*—
Tegge, Bruce R.; Teiser, William L.; Love, James H.; and Rosenbaum, Barry M., 3,642,731.
- Rosenbaum, Chester K.: *See*—
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- Rosenbaum, Irving W., to General Staple Co. Apparatus for splicing wires. 3,636,611, 1-25-72, Cl. 29-203.
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- Rosenberg, Edgar N., to United States of America, Navy. Hydrodynamic transducer. 3,704,443, 11-28-72, Cl. 340-8.00r.
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- Rosenberg, Robert A., to Mitron Research & Development Corporation. Method of casting titanium. 3,642,056, 2-15-72, Cl. 164-138.
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Vickers, Charles W., III, 3,638,836.
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- Rosenburgh, Norman John, to Eastman Kodak Company. Self-threading take-up device. 3,698,654, 10-17-72, Cl. 242-74.000.
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Darling, Donald J., 3,681,964.
- Rosencranz, Robert, to Sargent-Welch Scientific Company. Electrical system for use in optical densitometry. 3,704,950, 12-5-72, Cl. 356-73.000.
- Rosendahl, Friedrich-Karl: *See*—
Oertel, Harald; Eholzer, Ulrich; and Rosendahl, Friedrich-Karl, 3,682,902.
- Rosendahl, Friedrich Karl; Oertel, Harald; Rinke, Heinrich; and Thoma, Wilhelm, to Farbenfabriken Bayer Aktiengesellschaft. Segmented polyurethane elastomers. 3,658,746, 4-25-72, Cl. 260-30.8.
- Rosendahl, Gottfried R., to United States of America, Navy. Condenser system for high intensity light source. 3,702,395, 11-7-72, Cl. 240-41.300.
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- Rosene, Robert B., to Dow Chemical Company, The. Method for treating subsurface soils. 3,667,236, 6-6-72, Cl. 61-11.
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Kamphues, Hermann; and Rosengarten, Hans-Jurgen, 3,667,622.
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Deeds, Douglas; and Rosengrant, Barry L., 3,655,253.
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Merrill, Alvin S.; and Rosenhan, Bill J., 3,698,091.
- Rosenhan, Bill J., to Moroni Corporation. Illuminated gun sights for small arms. 3,698,092, 10-17-72, Cl. 33-241.000.
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Raithel, Kurt; and Rosenheinrich, Rene, 3,636,419.
- Rosenhouse, Stanley: *See*—
Rosenfeld, Daniel D.; and Rosenhouse, Stanley, 3,706,748.
- Rosenkaimmer GmbH: *See*—
Uthemann, Wolfgang; and Zimmermann, Richard (said Zimmermann assor. to), 3,703,182.
- Rosenkranz, George; and Crabbe, Pierre, to Syntex Corporation. 17a-Aza-D-homosteroid [17,17a-e] tetrazoles. 3,644,367, 2-22-72, Cl. 260-287.
- Rosenkranz, Hans-Jurgen; Rudolph, Hans; and Heine, Hans-Georg, to Farbenfabriken Bayer Aktiengesellschaft. Initiators for the photopolymerisation of unsaturated compounds. 3,686,084, 8-22-72, Cl. 204-159.150.
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- Rosenkranz, Wilhelm: *See*—
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- Rosenlund, Iver T., to Du Pont de Nemours, E. I., and Company. Exhaust gas reactor. 3,633,368, 1-11-72, Cl. 60-29.
- Rosenmund, Peter; and Grubel, Klaus, to Marcus, Friedrich-Karl. Method of making pyrrole derivatives. 3,687,962, 8-29-72, Cl. 260-296.00r.
- Rosenstein, Abraham J. Vehicle theft arrester. 3,661,115, 5-9-72, Cl. 116-33.
- Rosenstein, Nathan, to Hartford Spinning (Canada) Ltd. Compact multi-filament textile tow and method of making the same. 3,675,409, 7-11-72, Cl. 57-144.000.
- Rosenstock, Milton M.: *See*—
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- Rosenthal, Arnold Joseph: *See*—
Epstein, Martin Eden; Rosenthal, Arnold Joseph; and Santangelo, Joseph Germano, 3,669,934.
- Rosenthal, Arthur: *See*—
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- Rosenthal, Carl. Window sash rebate profile with a condensate reception gutter. 3,638,372, 2-1-72, Cl. 52-97.
- Rosenthal, Christian, to Chemische Werke Munchen Otto Barlocher GmbH. Pressure treatment of dispersed granules. 3,652,752, 3-28-72, Cl. 264-117.
- Rosenthal, Daniel. Method of making multicellular thermoset foamed plastic beads. 3,651,182, 3-21-72, Cl. 264-51.
- Rosenthal, Karlheinz: *See*—
Reh, Lothar; Schmidt, Werner Hans; and Rosenthal, Karlheinz, 3,672,069.
- Rosenthal, Murray W., to Block Drug Company, Inc. Antiseptic composition containing peroxide, glycerol and carboxypolyethylene polymer. 3,657,413, 4-18-72, Cl. 424-81.000.
- Rosenthal, Robert W., to Gulf Research & Development Company. Process for adding methyl substituents to aromatic hydrocarbons. 3,676,514, 7-11-72, Cl. 260-668.000.
- Rosenthal, Rudolph; and Kieras, Joseph A., to Atlantic Richfield Company. Process for purification of dicyclopentadiene diepoxide. 3,636,051, 1-18-72, Cl. 260-348.
- Rosenthal, Rudolph; Sheng, Ming Nan; and Zajacek, John G., to Atlantic Richfield Company. Treatment of cumene hydroperoxide for use in epoxidation reactions. 3,639,486, 2-1-72, Cl. 260-610.
- Rosenthal, Rudolph; Bonetti, Giovanni A.; and Shalit, Harold, to Atlantic Richfield Company. Synthesis of isoprene. 3,663,642, 5-16-72, Cl. 260-681.
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- Rosenthal, Sol Roy. Multiple puncture injector device. 3,675,766, 7-11-72, Cl. 206-63.400.
- Rosenthal, Wayne O., to Gearhart-Owen Industries, Inc. Apparatus for sealingly blocking a conduit. 3,642,064, 2-15-72, Cl. 166-134.
- Rosenthale, Marvin E.; and Lapidus, Milton, to American Home Products Corporation. Compositions and methods for relieving bronchial spasm with prostanoic acids and esters. 3,644,638, 2-22-72, Cl. 424-305.
- Rosenwald, Robert H.: *See*—
Latos, Edwin J.; and Rosenwald, Robert H., 3,635,823.
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Urban, Peter; and Rosenwald, Robert H., 3,672,835.
- Rosenwald, Robert H., to Universal Oil Products Company. Distillation of styrene with addition of polymerization inhibitor. 3,647,637, 3-7-72, Cl. 203-9.
- Rosenwald, Robert H., to Roper Corporation. Distillation of styrene with addition of polymerization inhibitor. 3,651,371, 3-21-72, Cl. 203-9.
- Rosenwald, Robert H., to Universal Oil Products Company. Synergistic anti-icing composition. 3,653,853, 4-4-72, Cl. 44-66.
- Rosenwald, Robert H.; and Gaydasch, Alexander, to Universal Oil Products Company. Middle distillate. 3,672,854, 6-27-72, Cl. 44-66.000.
- Rosenwald, Robert H., to Universal Oil Products Company. Reaction product of epichlorohydrin compound and beta-alkylamine. 3,686,315, 8-22-72, Cl. 260-584.00r.
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- Roser, Gerhard K.; Rebecchini, Eugene J.; and Vosburg, Guy M., to Weber Marking Systems, Inc. Inking pad and use thereof. 3,678,848, 7-25-72, Cl. 101-125.000.
- Roser, Kenneth F. Sight glass for the inside inspection of pipes and cleaning of same. 3,672,749, 6-27-72, Cl. 350-319.000.
- Roser, Kenneth L., to Keystone Consolidated Industries, Inc. Self-extruding screw. 3,648,560, 3-14-72, Cl. 85-47.
- Roser, Robert A.: *See*—
Moore, John R.; Noack, William L.; and Roser, Robert A., 3,696,967.
- Roseville Engineering, Inc., mesne: *See*—
Rasmussen, Robert F., 3,666,382.

- Rosher, Ronald; and Simmons, Ronald L., to Hercules Incorporated. Cool burning smokeless powder composition containing nitramine ethers. 3,697,341, 10-10-72, Cl. 149-92.000.
- Rosi, David: *See—*
Albertson, Noel F.; Rosi, David; and Merola, Armando J., 3,639,410.
- Rosiaux, Edouard: *See—*
Borgne, Roland; Joy, Jean; and Rosiaux, Edouard, 3,661,760.
- Rosic, Richard F., to Leisure Group, Inc., The. Rotary sprinkler. 3,655,132, 4-11-72, Cl. 239-206.
- Rosiek, Frank C., to Budd Company, The. Method of locking a bolt in an assembly by external staking. 3,699,637, 10-24-72, Cl. 29-432.100.
- Rosiello, Raymond S.: *See—*
Arnold, George R.; and Rosiello, Raymond S., 3,707,152.
- Rosier, Laurence L.: *See—*
Chang, Hsu; Keeffe, George E.; Lin, Yeong S.; and Rosier, Laurence L., 3,689,902.
- Rosier, Stewart N. Fish bite signaling device. 3,698,116, 10-17-72, Cl. 43-17.000.
- Rosin, Harlan J.: *See—*
Jones, Daniel F.; Petranek, David J.; and Rosin, Harlan J., 3,653,223.
- Rosin, Jacob; and Ang, Frank S., to Chris-Craft Industries, Inc. Production of arylsulfonfyl chlorides. 3,632,642, 1-4-72, Cl. 260-543.
- Rosin, Jacob; and Ang, Frank S., to Chris-Craft Industries, Inc. Production of cyanoacetic acid. 3,668,231, 6-6-72, Cl. 260-465.400.
- Rosin, Jacob; and Ang, Frank S., to Chris-Craft Industries, Inc. Production of aromatic sulfones. 3,673,259, 6-27-72, Cl. 260-607.
- Rosin, Jacob, to Stauffer Chemical Company. Hydrolysis of ethyl silicate. 3,704,263, 11-28-72, Cl. 252-309.000.
- Rosin, Seymour, to Harris-Intertype Corporation. Optical character spacing system for phototypesetting. 3,668,984, 6-13-72, Cl. 95-4.500.
- Rosin, Seymour, to Harris-Intertype Corporation. Image spacing system. 3,687,025, 8-29-72, Cl. 95-4.500.
- Rosinger, Herbert P.: *See—*
Soloway, Samuel B.; and Rosinger, Herbert P., 3,658,869.
- Rosini, Donald A.: *See—*
Robinson, David V., 3,643,586.
- Rosink, Wilhelmus Bernardus: *See—*
Nijhof, Engbert Bernard Gerard; and Rosink, Wilhelmus Bernardus, 3,707,660.
- Rosinski, Alexander B., Jr.; and Wiessner, Edward E., to Whirlpool Corporation. Laundry basket with removable agitation means. 3,648,486, 3-14-72, Cl. 68-4.
- Rosinski, Edward J.: *See—*
Plank, Charles J.; and Rosinski, Edward J., 3,676,330.
- Rubin, Mae K.; and Rosinski, Edward J., 3,699,139.
- Rosinski, Edward J.; and Simmons, Kenneth G., to Mobil Oil Corporation. Conversion of inorganic oxides into extrudable binders. 3,645,914, 2-29-72, Cl. 252-455.
- Rosinski, Werner K.: *See—*
Kasporeck, Walter E.; Swords, Ben B.; and Rosinski, Werner K., 3,693,418.
- Rosis, Constantine, to Borden, Inc. Process for improving plasticizer absorption of polyvinyl halides. 3,666,735, 5-30-72, Cl. 260-87.5.
- Roskowinski, Alfons: *See—*
Brown, Archer W.; Montgomery, James L.; Wienke, Charles W.; Roskowinski, Alfons; and Braddock, William A., 3,658,189.
- Rosler, Josef. Machine for covering mattresses made of foamed material, rubber, polyester and the like. 3,633,332, 1-11-72, Cl. 53-125.
- Roslonski, Donald J., to National Electro-Cook Corporation. Method and apparatus for heating and dispensing individually packaged food products. 3,651,752, 3-28-72, Cl. 99-357.
- Roslonski, Donald J., to Frost-A-Glass Corporation. Device for frosting drinking glasses. 3,668,888, 6-13-72, Cl. 62-373.000.
- Rosner, Carl H.: *See—*
Fleming, Robert B.; and Rosner, Carl H., 3,654,377.
- Rosner, Hermann: *See—*
Thomanek, Franz R.; Lallinger, Georg; and Rosner, Hermann, 3,661,086.
- Rosner, Kurt: *See—*
Von Conrad, Eugen; Rosner, Kurt; and Meyer, Ludwig, 3,659,792.
- Rosner, Leonard A. Girdle type garments. 3,683,935, 8-15-72, Cl. 128-547.000.
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Drent, Donald H., 3,643,556.
- Larson, Melvin E., 3,668,823.
- Templeton, John Glenn, 3,674,614.
- Templeton, John Glenn; and Seitz, Calvin W., 3,692,176.
- Ross, Adma Schneller: *See—*
Curran, William Vincent; Ross, Adma Schneller; and Tomcuf-cik, Andrew Stephen, 3,689,652.
- Ross, Albert, to Harris Calorific Company. Electrically ignited gas torch with laminar gas flow in removable tip. 3,667,895, 6-6-72, Cl. 431-255.000.
- Ross, Albert, to Harris Calorific Company. Electrically ignited gas torch with shut-off valve and latch therefor. 3,694,134, 9-26-72, Cl. 431-255.000.
- Ross, Albert H.: *See—*
Peterson, John A.; and Ross, Albert H., 3,645,895.
- Ross, Albert L. Bag making machine. 3,686,988, 8-29-72, Cl. 83-300.000.
- Ross, Austin: *See—*
Barkman, Byron L.; Moe, William West; and Ross, Austin, 3,678,187.
- Ross, Brian Francis; and Spicer, Dalton Harold, to Deere & Company. Windrower drive means. 3,699,751, 10-24-72, Cl. 56-10.300.
- Ross, Camilla B.: *See—*
Henderson, William E.; and Ross, Camilla B., 3,684,540.
- Ross, Carolyn A.: *See—*
Mitchell, Olga M. M.; Ross, Carolyn A.; and Wallace, Robert L., Jr., 3,644,674.
- Ross, Charles W.: *See—*
Green, Thomas A.; and Ross, Charles W., 3,633,009.
- Green, Thomas A.; and Ross, Charles W., 3,691,354.
- Ross, Charles W., to Leeds & Northrup Company. Feed rate control in a cement kiln incorporating dust return. 3,632,018, 1-4-72, Cl. 222-1.
- Ross, Charles W., to Leeds & Northrup Company. Method for automatically detecting the presence of cyclic pulses in noise corrupted process measurements. 3,681,780, 8-1-72, Cl. 444-1.100.
- Ross, Dale W.: *See—*
Wong, Peter J.; Ross, Dale W.; and Gardiner, Kenneth W., 3,689,788.
- Ross, Dan C., to U.S. Dynamics Inc. Fiche camera with selective frame skip mechanism. 3,672,769, 6-27-72, Cl. 355-40.000.
- Ross, Dan C., to U.S. Dynamics Inc. Fiche camera arrangement. 3,682,546, 8-8-72, Cl. 355-40.000.
- Ross, Dieter, to Siemens Aktiengesellschaft. Method and arrangement for measuring distances optically with high precision. 3,652,161, 3-28-72, Cl. 356-5.
- Ross, Donald Alexander, to RCA Corporation. Method of and apparatus for reproducing a colored image by electrophotographic means. 3,667,841, 6-6-72, Cl. 355-4.000.
- Ross, Donald H., to Super Tire Engineering Company. Industrial tire mold. 3,667,882, 6-6-72, Cl. 425-117.000.
- Ross, Donald L.: *See—*
Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., 3,700,723.
- Ross, Donald Nixon; and Ray, Derek Barrie. Apparatus for molding heart valves. 3,655,306, 4-11-72, Cl. 425-109.
- Ross, Donald R. Shock absorbing device. 3,635,332, 1-18-72, Cl. 206-46.
- Ross, Donald R. Folding box. 3,703,256, 11-21-72, Cl. 229-39.000.
- Ross, Donald S.: *See—*
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- Ross, Earl Warren; and Mc Henry, Howard Thomas, to General Electric Company. High stability nickel base alloy. 3,642,469, 2-15-72, Cl. 75-171.
- Ross, Edgar A.: *See—*
Tatum, Odes D.; and Ross, Edgar A., 3,654,380.
- Ross, Edward Charles, to RCA Corporation. Voltage translation circuit for MNOS memory array. 3,649,848, 3-14-72, Cl. 307-251.
- Ross, Edward Charles, to RCA Corporation. Variable threshold memory system using minimum amplitude signals. 3,702,990, 11-14-72, Cl. 340-173.000.
- Ross, Edward E., to Del Monte Corporation. Method and apparatus for orienting articles. 3,669,240, 6-13-72, Cl. 198-31.0aa.
- Ross, Edward E., to Del Monte Corporation. Method and apparatus for orienting elongated articles. 3,682,301, 8-8-72, Cl. 209-85.000.
- Ross, Frank E., to Maytag Company, The. Hinge structure. 3,659,314, 5-2-72, Cl. 16-168.
- Ross, George B.: *See—*
Chaparro, John J.; Ellis, Lowell V.; Meanor, Doyle W.; Morton, William D., Jr.; Richelmann, Bernd H.; Ross, George B.; and Toth, John E., 3,677,401.
- Ross, George E., 50% to Drake, Frances R. Adjustable frame holder. 3,632,101, 1-4-72, Cl. 269-70.
- Ross, George H.: *See—*
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- Ross, Howard C., to Kinkead Industries, Incorporated. Tail block for carpet stretching tool. 3,706,440, 12-19-72, Cl. 254-62.000.
- Ross, Howard R.; Goodrich, Lloyd D.; and Mc Queen, Norman, to Transportation Technology, Inc. Guideway and switching linear motor propelled vehicle. 3,696,753, 10-10-72, Cl. 104-148.0lm.
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- Ross, Ivan L., to American Chain & Cable Company, Inc. Conveyor system. 3,662,873, 5-16-72, Cl. 198-78.
- Ross, James A., to Rohr Corporation. Magnetic suspension and propulsion system. 3,638,093, 1-25-72, Cl. 318-687.
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- Ross, John A., to Hall Industries, Inc. Leaf bag holder. 3,638,888, 2-1-72, Cl. 248-97.
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Macnab, Robert Beattie; Ross, John Sterry Hawley; and Wood, Michael Burke, 3,648,082.
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Coscia, Anthony Thomas; and Ross, Joseph Hansbro, 3,634,399.
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Markert, Gerhard; Pennewis, Horst; Ross, Klaus; and Neher, Dieter, 3,661,880.
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- Ross, Lester M.: *See—*
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- Ross, Louis E.; Lyon, John K.; and Paolucci, Julius J., to Price-Pfister Brass Mfg. Co. Diverter valve structure. 3,646,967, 3-7-72, Cl. 137-625.47.
- Ross, Marty: *See—*
Moore, Werton D., 3,665,942.
- Ross, Mike. Wallet carrying article. 3,648,906, 3-14-72, Cl. 224-5.
- Ross, Milton Dean: *See—*
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- Ross, Nicholas D.: *See—*
Blackstock, Hoyt A.; and Ross, Nicholas D., 3,689,290.
- Ross Operating Valve Company: *See—*
Bitonit, Paul A., 3,654,958.
- Huntington, Andrew B., 3,642,198.
- Pickett, David A., 3,680,596.
- Porter, Edward B., Sr., 3,635,250.
- Ross, Ray C.; and Crum, Robert L., to Allis-Chalmers Manufacturing Company. Hinged closure for vehicle bottom guard structure. 3,670,835, 6-20-72, Cl. 180-691.000.
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- Ross, Rupert F.: *See—*
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Carlsson, Per Arvid Emil; Corrodi, Hans Hudolf; Florwall, Gosta Linnart; and Ross, Svante Bertil, 3,644,623.
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Controni, Guido; Khan, Waheed N.; Patrick, James R.; and Ross, Sydney, 3,649,460.
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- Ross, Wilbur Norbert, to Du Pont de Nemours, E. I., and Company. Process for forming a cohesive tow band from a plurality of separate yarn bundles. 3,662,056, 5-9-72, Cl. 264-290.
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- Ross, William C., to Grace, W. R., & Co. Process of producing reinforced laminate. 3,673,023, 6-27-72, Cl. 156-137.000.
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- Ross-Clunis, Robert Alan. Self-steering arrangement. 3,678,878, 7-25-72, Cl. 114-144.00r.
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Wolff, William F.; Rosscup, Robert J.; and Ridgway, John A., Jr., 3,647,677.
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Fletcher, William E.; and Rosseay, Leon B., 3,686,639.
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- Rossel, Joseph. Property safe. 3,669,037, 6-13-72, Cl. 109-49.000.
- Rossell, John Barry: See—
Caverly, Brian Leonard; and Rossell, John Barry, 3,706,576.
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Calligaris, Ennio; and Rossello, Mario, 3,647,450.
Calligaris, Ennio; Callaby, Roy; and Rossello, Mario, 3,650,747.
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Eriksson, Lars O.; and Rosser, Daniel B., 3,652,903.
Livezey, John P.; and Rosser, Daniel B., 3,651,383.
Livezey, John P.; and Rosser, Daniel B., 3,686,541.
- Rosser, Eugene P.; and Lorenz, Howard I., said Rosser assor. to Noble Drilling Corporation. Underwater pipe positioning apparatus. 3,664,442, 5-23-72, Cl. 175-231.
- Rosser, John Anthony: See—
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- Rossetti, Carlo. Apparatus for the production of case polymer sheets. 3,689,022, 9-5-72, Cl. 249-81.000.
- Rossetti, Louis F.: See—
Brown, Chester A.; and Rossetti, Louis F., 3,650,827.
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Mangini, Angelo; Tundo, Antonio; Bonini, Bianca Flavia; and Rossetti, Marta, 3,663,541.
- Rosshirt, Hermann: See—
Madsen, Elmer; and Rosshirt, Hermann, 3,638,028.
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McDougall, Lee A.; Rossi, Albert; and Wisotsky, Max J., 3,693,720.
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- Rossi, Alfred G. Fabric and method for making the fabric. 3,658,023, 4-25-72, Cl. 112-416.
- Rossi, Anthony J. Apparatus for extruding candy fillings having a high percentage of solids. 3,676,036, 7-11-72, Cl. 425-209.000.
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Froehlich, Alfred; and Rossi, Carlo, 3,635,718.
- Rossi, Enzo: See—
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- Rossi, Eugene F., to Allis-Chalmers Manufacturing Company. Gas delivery manifold and processed material discharge assembly for rotary kiln. 3,661,370, 5-9-72, Cl. 263-33.
- Rossi, Giorgio; Micheli, Giannantonio; and Paolucci, Paride, to Montecatini Edison S.p.A. Fluorinated esters with a pesticide action. 3,689,522, 9-5-72, Cl. 260-469.000.
- Rossi, Harry; and Myers, John H., to Continental Can Company, Inc. Carton with article-centering means. 3,705,681, 12-12-72, Cl. 229-40.000.
- Rossi, Harry J.: See—
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- Rossi, Harry J., to Continental Can Company, Inc. Tubular carton with axially closed ends. 3,670,950, 6-20-72, Cl. 229-40.000.
- Rossi, Lionello. Articulated pivotable continuous conveyor mounted on a wheeled frame, preferably carrying also a rotating mixer. 3,684,255, 8-15-72, Cl. 259-169.000.
- Rossi, Louis J., to Eastman Kodak Company. Substituted bis(p-dialkylaminophenyl) methane photoconductors. 3,647,431, 3-7-72, Cl. 96-1.5.
- Rossi, Pietro Paolo: See—
Sicliari, Francesco; Rossi, Pietro Paolo; Calgari, Seba; and Jacuone, Roberto, 3,700,631.
- Rossi, Robert R., to Arrow Safety Device Company. Marker lamp. 3,633,021, 1-4-72, Cl. 240-8.2.
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Tarneja, Krishan S.; Rossi, Vito A.; and McNally, James B., 3,666,574.
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Krusche, Alfred; and Rosslein, Helmuth, 3,672,161.
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- Rossler, Heinrich Georgi F.; Baumann, Heinrich; and Zeidler, Falk, to Daimler-Benz Aktiengesellschaft. Emergency running ring for tubeless vehicle tires. 3,638,701, 2-1-72, Cl. 152-158.
- Rossler, Hubert; Halpaap, Herbert; and Klatyk, Knut, to Merck Patent Gesellschaft mit beschränkter Haftung. Film for layer chromatography. 3,701,678, 10-31-72, Cl. 117-69.000.
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- Rossman, Donald W., to Elco Corporation. Strip-type dip receptacle. 3,668,604, 6-6-72, Cl. 339-17.0cf.
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- Rossman, Joseph J.; and Hudgins, Wilbur E. Split transfer sleeve. 3,701,537, 10-31-72, Cl. 279-1.00a.
- Rossmann, Rudolf H., to U.T.L., Inc. Method of reinforcing a knitted or woven fabric. 3,663,329, 5-16-72, Cl. 156-148.
- Rossmay, Gerd: See—
Fink, Hans-Ferd; Koerner, Gotz; Rossmay, Gerd; and Schmidt, Gunter, 3,655,554.
Koerner, Gotz; and Rossmay, Gerd, 3,634,344.
Koerner, Gotz; and Rossmay, Gerd, 3,677,962.
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- Rossmay, Gerd, to Goldschmidt, Th., A.-G. Process for producing polyetherurethane foam employing polyoxyalkylene-polysiloxane block polymers as surfactants. 3,637,541, 1-25-72, Cl. 260-2.5.
- Rossmay, Gerd; and Koerner, Gotz, to Goldschmidt, Th., A.-G. Process of producing halosiloxanes. 3,642,852, 2-15-72, Cl. 260-448.2.
- Rossmay, Gerd, to Goldschmidt, Th., A.-G. Equilibrated polydior-ganosiloxanysulfate mixtures and process for their preparation. 3,652,624, 3-28-72, Cl. 260-448.2.
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- Rossnan, Michael. Method of preparing crab bodies for the removal of the meat therefrom. 3,696,465, 10-10-72, Cl. 17-48.000.
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Burrus, Bill S.; and Rosso, John B., 3,654,458.
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- Rosso, Juan C.: See—
Howland, John W.; and Rosso, Juan C., 3,642,624.
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Sicliari, Francesco; Horak, Edgardo; and Rosso, Mario, 3,682,864.
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- Rost, Gunter: See—
Safrata, Leon; Beifuss, Horst; Bormann, Hans; and Rost, Gunter, 3,685,242.
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Menz, Hans-Udo; Rost, Johannes Erich; and Wieske, Theophil, 3,658,555.
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- Rostad, Nels C., to Lockheed Aircraft Corporation. Apparatus and method for sequencing the folding and unfolding of rotor blades in a compound vehicle. 3,698,662, 10-17-72, Cl. 244-7.00a.
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- Rostek, Paul M.: See—
Cereghino, Bruce R.; and Rostek, Paul M., 3,639,778.
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Cowan, James H., Jr.; and Rostoker, David, 3,666,506.
- Rostoker, Louis, to Pep Professional and Engineered Patents Limited. Vibration damping device for transmission lines. 3,692,919, 9-19-72, Cl. 174-42.000.
- Rostron, Arthur John: See—
Sharples, Allan; Rostron, Arthur John; and Mc Gibbon, Graeme, 3,676,688.

- Rosvold, Donald M., to Minnesota Mining and Manufacturing Company. Underpacking for printing with dimensionally stable plastic core having elastomeric and pressure sensitive outer layers. 3,705,072, 12-5-72, Cl. 161-167.000.
- Roswell, David F.; Kramm, David E.; Wood, Louis L.; and Steadman, Thomas R., to Grace, W. R., & Co. Orthoesters derived from glycerol. 3,644,423, 2-22-72, Cl. 260-340.9.
- Rozelle, Wayne O., to Marathon Oil Company. Oil recovery process using micellar dispersions containing a metal phosphate. 3,688,844, 9-5-72, Cl. 166-274.000.
- Rozinski, Hilmar: See—
Dany, Franz-Josef; Komorniczky, Klaus; Rozinski, Hilmar; and Kalteyer, Gerhard, 3,663,174.
- Rozinski, Hilmar; and Harnisch, Heinz, to Knapsack Aktiengesellschaft. Process for the manufacture of ammonium dialkyl-dithiophosphates. 3,671,612, 6-20-72, Cl. 260-987.000.
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Boyce, Alden C., 3,640,338.
- Rotadraw Limited: See—
Mabbutt, David Robert, 3,696,529.
- Rotary Hoes Ltd.: See—
Trimpe, Clarence W.; and Beldon, Roy A., 3,698,485.
- Rotary Profile Anstalt: See—
Marcovitch, Jacob, 3,643,485.
Marcovitch, Jacob, 3,645,579.
Marcovitch, Jacob, 3,656,332.
Marcovitch, Jacob, 3,663,977.
Marcovitch, Jacob, 3,685,331.
Marcovitch, Kacob, 3,681,962.
- Rotasign Limited: See—
Johnson, Harold Hector; South, Derek Bye; and White, Charles Victor Burdett, 3,678,282.
- Rotax Limited: See—
Hunt, Peter, 3,689,786.
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Wernikoff, Robert E.; Perozek, David M.; and Roten, Jana M., 3,654,846.
- Roth, Adrian W., to Sprecher & Scheeh A.G. Vacuum switch for alternating current interruption. 3,636,292, 1-18-72, Cl. 200-144.
- Roth, Ahti Aadolf. Finger joint for jointing boards, battens, planks, and other comparable bodies. 3,692,340, 9-19-72, Cl. 287-20.92t.
- Roth, Albert. Adjustable open end ratchet wrench. 3,659,485, 5-2-72, Cl. 81-98.
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- Roth, Charles F., Jr.; and Butler, Gordon C., to Xerox Corporation. J-Shell developer housing. 3,682,137, 8-8-72, Cl. 118-637.000.
- Roth, David W. H., Jr.: See—
Balint, Laszlo J.; Roth, David W. H., Jr.; and Snider, Orville E., 3,679,368.
- Roth, Donald J.: See—
Erlandson, Paul M.; Aschberger, Anton A.; Roth, Donald J.; Cary, John T.; and Bartimes, George F., 3,652,818.
Norin, Robert W.; and Roth, Donald J., 3,668,365.
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- Roth, Donald T. Random indicating device. 3,648,274, 3-7-72, Cl. 340-332.
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- Roth, Eric Michael. Fabric applying apparatus. 3,699,626, 10-24-72, Cl. 29-200.00b.
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- Roth, Grant V. W.; and Krupp, Charles E. Flow indicator. 3,653,260, 4-4-72, Cl. 73-228.
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Rindner, Wilhelm; and Roth, Harold, 3,667,010.
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Jones, Giffin D.; and Roth, Harold H., 3,640,909.
- Roth, Helmut: See—
Issler, Jorg; Hohne, Gerd; Strelow, Gert; and Roth, Helmut, 3,635,202.
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Scola, Daniel A.; and Roth, Hilton A., 3,660,140.
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Schiffmann, Robert F.; Roth, Howard; Lipka, David H.; and Goodman, Abraham H., 3,633,490.
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Bouricius, Willard G.; Carter, William C.; Roth, John P.; and Schneider, Peter R., 3,665,173.
Bouricius, Willard G.; Carter, William C.; Duke, Keith A.; Roth, John P.; and Schneider, Peter R., 3,665,174.
Bouricius, Willard G.; Carter, William C.; Roth, John P.; and Schneider, Peter R., 3,665,175.
Bouricius, Willard G.; Carter, William Caswell; Roth, John P.; and Schneider, Peter Robert, 3,665,418.
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Vehe, Dennis A.; Porterfield, Jay G.; and Roth, Lawrence O., 3,679,132.
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Dunnahoe, Richard G.; Bondahl, Gary B.; and Roth, Paul W., 3,669,741.
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Rasmussen, Dimite J.; and Roth, Peter H., 3,707,370.
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Yoder, Alfred Dean; and Roth, Robert Richard, 3,698,488.
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Sieghartner, Leonard J., 3,661,474.
Sieghartner, Leonard J., 3,690,410.
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Eichhorn, Jacob; and Roth, Stanley F., 3,698,934.
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Varsanyi, Denis; and Roth, Willy, 3,634,110.
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Tomalinas, William R., Jr., 3,674,262.
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Burton, John S.; Gilman, Samuel; Rothbart, Michael; and Whitney, Ronald L., 3,645,619.
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Dechene, Walter; Rothe, Herbert; and Salmen, Fritz, 3,683,662.
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Kent, Ronald E.; and Rothenberger, Alvin C., 3,670,545.
- Rothenborg Specialmaskiner for Sy-Industrien A/S: See—

- Hedegaard, Arne Marius, 3,669,047.
 Rother, Claus: *See—*
 Dorschner, Oskar; Carduck, Franz Josef; Storkebaum, Christoph; and Rother, Claus, 3,655,862.
 Rother, John H.: *See—*
 Santurri, Pasco R.; and Rother, John H., 3,690,920.
 Rother, Wolfgang; Mordig, Eberhard; Wenzel, Erwin; Cronert, Dieter; Sand, Karl; Kasbohm, Joachim; Henicke, Heinz; Landmann, Helmut; and Stocker, Winfried, to VEB Kombinat Luft-und Kältetechnik. Method and apparatus for welding metal sheets. 3,701,881, 10-3-72, Cl. 219-123.000.
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 Rothert, Horst: *See—*
 Urgesi, Federico; and Rothert, Horst, 3,635,901.
 Rothery, John L.: *See—*
 Fougere, Guy L.; Rothery, John L.; and Miller, Raymond H., 3,670,243.
 Rothfuss, Georg: *See—*
 Espenschied, Helmut; Rothfuss, Georg; and Will, Gerhard, 3,659,481.
 Rothhaar, Charles W.: *See—*
 Condon, James A.; and Rothhaar, Charles W., 3,706,438.
 Rothi, Raymond C., to Outboard Marine Corporation. Sod severing and roll forming apparatus. 3,662,837, 5-16-72, Cl. 172-20.
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 Rothman, Edward S.: *See—*
 Serota, Samuel; and Rothman, Edward S., 3,666,781.
 Rothman, Lawrence J.: *See—*
 Klein, Donald L.; Mac Intyre, Michael W.; and Rothman, Lawrence J., 3,669,669.
 Rothman, Mathew: *See—*
 Harr, Raymond W.; and Rothman, Mathew, 3,661,088.
 Rothmann, Harry Edward; and Ruf, Walter, to St. Regis Paper Company. Bag applicator method and apparatus. 3,676,977, 7-18-72, Cl. 53-24.
 Rothmans of Pall Mall Canada Limited: *See—*
 Brackmann, Warren A.; and Di Ianni, Daniel, 3,659,697.
 Rothrock, Elmer Weyman; and Niku, Silvio D., to Chicago Bridge & Iron Company. Vessel and closure with interlocking shear ring joint. 3,655,090, 4-11-72, Cl. 220-42.
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 Rothstein, Bernard B.: *See—*
 Regan, John J.; and Rothstein, Bernard B., 3,656,190.
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 Rothwell, Ronald E.; and Beringer, Charles W., to Allied Chemical Corporation. Heat setting trapped pre-inserted twist. 3,678,676, 7-25-72, Cl. 57-157.0ts.
 Rotkin, Israel: *See—*
 Rabinow, Jacob; Rotkin, Israel; and Astin, Allen V., 3,677,184.
 Roto Corporation, The: *See—*
 Kuhlman, Walter F., 3,637,401.
 Roto Diesel Clichy: *See—*
 Garnier, Georges, 3,705,692.
 Roto Manufacturing Company, Inc.: *See—*
 Breton, Roger J.; and Beck, David F., 3,682,092.
 Roto-Diesel: *See—*
 Garnier, Georges, 3,645,047.
 Garnier, Georges, 3,667,686.
 Roto-Diesel, Clichy (Hauts-de-Seine): *See—*
 Garnier, Georges, 3,650,259.
 Roto-Finish Company: *See—*
 Rise, William E., 3,633,321.
 Roto-Werke GmbH: *See—*
 Rilinger, Alfons, 3,655,182.
 Rotodyne Manufacturing Corporation: *See—*
 Bavers, Elliott, 3,646,898.
 Rotographic Machinery Company, The: *See—*
 Helmig, Richard W.; and Steinmetz, Floyd, 3,667,352.
 Steinmetz, Floyd, 3,667,354.
 Ward, Henry D., Jr.; and Steinmetz, Floyd, 3,667,353.
 Rotolico, Anthony J.; Vogts, William A.; and Thompson, Henry C., to Metco Inc. Electric arc metal spray gun. 3,632,952, 1-4-72, Cl. 219-76.
 Rotolico, Anthony J.; and Romero, Eduardo, to Metco Inc. Nozzle for a plasma generator. 3,707,615, 12-26-72, Cl. 219-121.00p.
 Rotoloc Corporation: *See—*
 Campbell, Theodore A.; Stebbins, Marlin R.; and Peelle, Jonathan W., 3,656,376.
 Rotondo, A., & Sons, Inc.: *See—*
 La Monica, Frank, 3,645,100.
 Rotondo, Fortunato N.; Toledo, Emil; and Lawrence, Leslie, to United States of America, Navy. Tool for U-bending of plated wire. 3,696,846, 10-10-72, Cl. 140-102.000.
 Rotopak Systems Inc.: *See—*
 Molitorisz, Joseph, 3,691,941.
 Rototron Corporation: *See—*
 Pivar, Stewart, 3,703,348.
 Rotron Incorporated: *See—*
 Desy, Jacques J., 3,649,000.
 Rotruck, James L.: *See—*
 Zickar, Frank R.; Benke, Frank W.; and Rotruck, James L., 3,657,808.
 Rotsen, Karl Arturovich: *See—*
 Berzib, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leenieux, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreievich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.
 Rotsky, Bernard A.; and Dunne, Gilbert M., Jr., to Gourdine Systems, Inc. Modularized electrostatic precipitator. 3,701,236, 10-31-72, Cl. 55-114.000.
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 Rott, John G., to Scope Incorporated, mesne. Print head carriage mechanism for impactless printer. 3,685,629, 8-22-72, Cl. 197-66.000.
 Rotta Research Laboratorium S.p.A.: *See—*
 Da Re, Giorgio; and Rovati, Luigi, 3,663,711.
 Rovati, Luigi, 3,683,076.
 Rovati, Luigi; Mascherpa, Sergio; and Casula, Pierluigi, 3,697,652.
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 Rottering, Quintin N., to Maytag Company, The. Token-actuated control circuit. 3,695,409, 10-3-72, Cl. 194-4.00c.
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 Keller, Helmut; Rottmann, Franz; Zickler, Helmut; and Klauke, Dieter, 3,652,190.
 Rottmann, Gernot: *See—*
 Reichmann, Horst; and Rottmann, Gernot, 3,701,481.
 Rottmann, Hans R.: *See—*
 Moreau, Wayne M.; and Rottmann, Hans R., 3,676,002.
 Rottmayr, Friedrich; and Reimann, Hans, to Linde Aktiengesellschaft Zentrale Patentabteilung. Process for production of pure ethylene. 3,695,002, 10-3-72, Cl. 55-64.000.
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 Roubin, Marc P.: *See—*
 Paris, Rene A.; Thibaudon, Dominique; Roubin, Marc P.; and Paris, Jacques M., 3,704,116.
 Rouchaud, Jean; and Seree De Roch, to Institut Francais du Petrole, des Carburants et Lubrifiants. Catalytic process for epoxidation of olefinic compounds in the presence of molecular oxygen. 3,641,066, 2-8-72, Cl. 260-348.5.
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 Roueche, Armand, to Ciba Limited. Phenyl-azo-hydroxynaphtholic acid amide pigments. 3,652,533, 3-28-72, Cl. 260-203.
 Roueche, Armand, to Ciba Limited. Phenyl-azo-hydroxynaphtholic acid amide pigments. 3,660,373, 5-2-72, Cl. 260-203.
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 Rouis, Robert J. Electrically operated, remote controlled wheel turner. 3,648,539, 3-14-72, Cl. 74-494.
 Rouliay, Roger: *See—*
 Clement, Rene; Manfredi, Pierre; and Rouliay, Roger, 3,701,444.
 Roulo, Ronald H., to Continental Can Company, Inc. Method and apparatus for transporting a coated paper web. 3,685,710, 8-22-72, Cl. 226-97.000.
 Roulund, Poul B.: *See—*
 Adams, Thomas F.; Mattes, Lyle T.; and Roulund, Poul B., 3,639,746.
 Leavitt, Minard A.; and Roulund, Poul B., 3,667,845.
 Roumejon, Leon. Floating hull to maintain a cushion of air. 3,662,700, 5-16-72, Cl. 114-67.
 Round, Byron J.; and Stalph, Gunter J., to Combustion Engineering, Inc. and Fabrica de Radiatoare si Cabluri Brasov. Method for forming corners of omega-type expansion joints Method of soldering the cooling body of automobile radiators. 3,631,587, 1-4-72, I. 29-488.
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 Rous, Benjamin, to Grand-City Container Corporation. Carton. 3,682,370, 8-8-72, Cl. 229-40.000.
 Rous, Pierre. Pallet storage sectional frame structures. 3,672,515, 6-27-72, Cl. 211-176.000.
 Rous, Pierre. Sectional shelving. 3,693,556, 9-26-72, Cl. 108-109.000.
 Rouse, Alan D.: *See—*
 Nolting, Jerry L.; and Rouse, Alan D., 3,646,802.
 Rouse, Donald W., to Readex Electronics, Inc. Method and apparatus for transmitting utility meter data to a remote mobile command unit. 3,688,271, 8-29-72, Cl. 340-172.500.
 Rouse, George V.: *See—*
 Davidson, Jimmy L.; and Rouse, George V., 3,699,722.
 Rouse, John E.: *See—*
 Hughes, Robert L.; and Rouse, John E., 3,704,692.
 Rouse, William, to Imperial Chemical Industries, Limited. Pressure transducer. 3,703,099, 11-21-72, Cl. 73-398.0ar.
 Rouse, William H., to North American Rockwell Corporation. Damper control system for lithographic printing press. 3,700,984, 10-24-72, Cl. 318-77.000.
 Rousey, Donald L., to Questor Corporation. Wind braced turbine. 3,645,192, 2-29-72, Cl. 98-75.
 Roush, Allan N.: *See—*
 Chao, Tai S.; and Roush, Allan N., 3,655,562.
 Roush, Gale S.: *See—*
 Thomas, William E.; and Roush, Gale S., 3,637,234.
 Roush, Roy W., Jr., to General Motors Corporation. Railway vehicle brake rigging. 3,643,766, 2-22-72, Cl. 188-190.
 Rousseau, Claude: *See—*
 Teurnier, Roger; and Rousseau, Claude, 3,644,672.
 Rousseau, Claude, to C.I.T.-Compagnie Industrielle des Telecommunications. Supervisory circuit for electronically monitoring a telegaphy line. 3,668,314, 6-6-72, Cl. 178-69.00g.
 Rousseau, Claude, to C.I.T.-Compagnie Industrielle des Telecommunications. Pulse discriminator. 3,686,438, 8-22-72, Cl. 178-69.600.
 Rousseau, Edmund G.: *See—*
 Gove, Donald C.; Mullins, Barry W.; and Rousseau, Edmund G., 3,660,838.
 Rousseau, Genevieve; Allais, Andre; and Poittevin, Andre, to Rousset-UCLAF. Spiro benzocyclane acetic acid compounds. 3,682,964, 8-8-72, Cl. 260-327.0th.
 Rousseau, Joseph: *See—*
 Rousseau, Louis; and Rousseau, Joseph, 3,683,522.
 Rousseau, Louis; and Rousseau, Joseph. Frustoconical rotary cutter for digging trenches. 3,683,522, 8-15-72, Cl. 37-91.000.
 Rousseau, Louis Marie, to Felix Bauer. Mobile refuse incinerator. 3,682,117, 8-8-72, Cl. 110-14.000.
 Rousseau, Roy S.; Keating, Raymond J.; and Steinke, Gary L., to Kartridge Pak Co., The. Packaging machine. 3,664,085, 5-23-72, Cl. 53-112.
 Roussel, Jean-Charles, to Societe Anonyme Thimonnier & Cie. Device for drawing parallel strips with uniform tension. 3,656,386, 4-18-72, Cl. 83-367.
 Roussel-UCLAF: *See—*
 Allais, Andre; and Girault, Pierre, 3,632,818.
 Allais, Andre; and Meier, Jean, 3,644,368.
 Amiard, Gaston; Nomine, Gerard; and Torelli, Vesperto, 3,686,241.
 Amiard, Gaston; and Heymes, Rene, 3,707,540.
 Bertin, Daniel; and Girault, Pierre, 3,646,058.
 Bertin, Daniel; Perronnet, Jacques; and Teche, Andre, 3,658,819.
 Bertin, Daniel; and Perronnet, Jacques, 3,679,393.
 Boucourt, Robert; Nedelec, Lucien; and Gasc, Jean-Claude, 3,697,556.
 Boucourt, Robert; Vignau, Michel; and Raynal, Jean, 3,637,754.
 Boucourt, Robert; Vignau, Michel; and Raynal, Jean, 3,637,755.
 Boucourt, Robert; Vignau, Michel; and Raynal, Jean, 3,637,756.
 Boucourt, Robert; Nedelec, Lucien; and Gasc, Jean-Claude, 3,646,063.
 Boucourt, Robert; Nedelec, Lucien; and Gasc, Jean-Claude, 3,679,718.
 Boucourt, Robert; Nedelec, Lucien; Gasc, Jean-Claude; and Pierdet, Andre, 3,697,510.
 Boucourt, Robert; and Nedelec, Lucien, 3,697,511.
 Clemence, Francois; and Le Martret, Odile, 3,644,382.
 Clemence, Francois; and Le Martret, Odile, 3,668,238.
 Clemence, Francois; and Le Martret, Odile, 3,700,677.
 Goffinet, Bernard; and Locatelli, Antoine, 3,646,118.
 Heymes, Rene; and Amiard, Gaston, 3,642,788.
 Heymes, Rene; Amiard, Gaston; and Nomine, Gerard, 3,658,802.
 Martel, Jacques; and Buendia, Jean, 3,694,472.
 Muller, Georges; and Bardoneschi, Roland, 3,676,461.
 Nedelec, Lucien; and Gasc, Jean-Claude, 3,637,771.
 Nedelec, Lucien; and Gasc, Jean-Claude, 3,691,215.
 Nedelec, Lucien; and Gasc, Jean-Claude, 3,699,100.
 Prost Marechal, Jacques; and Tomasik, Georges, 3,646,151.
 Ratouis, Roger; and Boissier, Jacques Robert, 3,679,802.
 Rossi, Silvano, 3,699,098.
 Rousseau, Genevieve; Allais, Andre; and Poittevin, Andre, 3,682,964.
 Warnant, Julien; Jolly, Jean; and Joly, Robert, 3,637,770.
 Warnant, Julien; and Farcilli, Andre, 3,679,714.
 Roussellet, Joseph, to Etablissements Roussellet. Automatic selector for various evacuation circuits of a centrifuge. 3,642,136, 2-15-72, Cl. 210-109.
 Rousselot, Felix: *See—*
 Marand, Jean; and Rousselot, Felix, 3,669,313.
 Rousselot, Felix, to Ciba-Geigy Corporation. Gas flow dispenser bag. 3,696,972, 10-10-72, Cl. 222-189.000.
 Rouso, Jack J., Jr.; and Willman, George N., to Mobil Oil Corporation. Air distributor for obtaining uniform head-tape contact in magnetic tape transport. 3,678,216, 7-18-72, Cl. 179-100.20p.
 Roussos, Michel: *See—*
 Henri, Richard; and Roussos, Michel, 3,699,019.
 Roussos, Michel; and Bourgeois, Yves, to Melle-Bezons. Liquid lead stabilizers for vinyl chloride polymers and copolymers. 3,639,264, 2-1-72, Cl. 252-400.
 Roussos, Michel G.: *See—*
 Passeoudet, Andre Henri; Roussos, Michel G.; Pigeot, Jacqueline; and Paillote, Nicole, 3,652,584.
 Routery, Herbert L. Dinghy securing and stowing means. 3,685,476, 8-22-72, Cl. 114-43.500.
 Routh, Larry L.; and Contratto, James, to U.S. Industries, Inc. End insulator for a power distribution system. 3,649,951, 3-14-72, Cl. 339-21.
 Routh, Larry L.; and Contratto, James, to U.S. Industries, Inc. Mounting structure for a power track. 3,683,312, 8-8-72, Cl. 339-21.00r.
 Routh, Larry L.; and Contratto, James, to U.S. Industries, Inc. End connector for a power distribution system. 3,688,240, 8-29-72, Cl. 339-21.00r.
 Routien, John B.: *See—*
 Sciaolino, Frank C.; Routien, John B.; Tynan, Edward J.; and Celmer, Walter D., 3,655,876.
 Sobin, Ben A.; Routien, John B.; Rao, Koppaka V.; Marsh, William S.; and Garretson, Aline L., 3,646,194.
 Routon, Richard: *See—*
 Day, Leon E., 3,700,263.
 Routon, Willis G. Method for controlling flow of aqueous fluids in subterranean formations. 3,687,200, 8-29-72, Cl. 166-275.000.
 Routon, Willis G.; and Caldwell, Albert L., to Dow Chemical Company, The. Method and composition for controlling flow through subterranean formations. 3,701,384, 10-31-72, Cl. 166-292.000.
 Rouverol, William S. Ball-disk drive. 3,654,812, 4-11-72, Cl. 74-200.
 Rouvet, Jacques: *See—*

- Pointout, Rene; Rouvet, Jacques; and Joliot, Adolphe, 3,677,826.
- Rouviere, Roger: *See—*
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Dumast, Michel; Rouzaud, Guy; and Thevenin, Luc, 3,693,022.
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Gould, Patrick; Row, John Henry Alexander; and Rudston, Stanley George, 3,660,467.
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Olivieri, George, 3,706,149.
- Rowbotham, Anthony St. John: *See—*
Morris, Cecil Edward; and Rowbotham, Anthony St. John, 3,684,607.
- Rowden, George Allan: *See—*
Scuffham, James Barrie; and Rowden, George Allan, 3,663,169.
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Furlong, Owen D.; Rowe, Alan C.; and Wright, Eric F., 3,677,293.
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Last, James David; and Rowe, David N. E., 3,696,251.
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Farr, John Peter George; and Rowe, Geoffrey Whaley, 3,703,449.
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Barden, Allan D., 3,681,937.
- Dykehouse, David B.; Okkonen, Oliver G.; and Zoodma, Norman J., 3,690,332.
- Kurimsky, Albert, 3,684,131.
- Scarnecchia, Gregory; and Scalera, Frank T., 3,674,173.
- Rowe, James H.: *See—*
Markus, Joseph; Rowe, James H.; Dew, Kenneth L.; and Mystowski, Edward J., 3,692,975.
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Lucas, Malcolm B.; Villanueva, Jaime P.; and Rowe, Stewart, 3,667,596.
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Jackson, Thomas Meirion; Bush, Eric Langley; Rowe, Thomas John; and Moule, David John, 3,650,796.
- Rowe, William A.: *See—*
Robinder, Ronald C.; Rowe, William A.; and Schwartz, James W., 3,672,893.
- Rowe, William Wallace: *See—*
Frick, Roy C.; Calvin, Victor E.; Sharpe, John C.; and Rowe, William Wallace, 3,686,054.
- Rowedder, Gustav: *See—*
Drechel, Herbert; Rowedder, Gustav; Dorr, Karl-Heinz; and Grimm, Hugo, 3,656,900.
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Radig, Gary A.; Rowell, Cliva A., Jr.; and Edwards, Harvey R., 3,698,477.
- Rowell, Douglas W., to Anaconda American Brass Company, mesne. Apparatus for welding. 3,650,456, 3-21-72, Cl. 228-19.
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Mercer, James L.; and Rowell, Lorne A., 3,648,379.
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Strzelczyk, Gotz Florian, 3,650,041.
- Rowland, Colin M.: *See—*
Cooper, Kenneth G.; Cooper, Herbert T.; and Rowland, Colin M., 3,671,484.
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Rowland, William P., 3,684,348.
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- Rowland, Howard J.: *See—*
Bickford, William J.; De Bettencourt, Joseph T.; Roche, James F.; and Rowland, Howard J., 3,646,443.
- Tsao, Carson K. H.; De Bettencourt, Joseph T.; and Rowland, Howard J., 3,680,133.
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Whitney, Ian; White, Edward Bailey; and Rowland, Michael Roger, 3,700,511.
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Rowland, William P., 3,636,147.
- Rowland, Stanley P.: *See—*
Franklin, William E.; Mack, Charles H.; and Rowland, Stanley P., 3,632,298.
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- Rowland-Hill, Edward William, to Sperry Rand Corporation. Axial flow threshing and separating unit creating an air flow along the grain pan. 3,645,270, 2-29-72, Cl. 130-27.
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- Rowlands, Douglas Henry: *See—*
Klepp, George Francis; and Rowlands, Douglas Henry, 3,634,571.
- Rowlands Electrical Accessories Limited: *See—*
Ruston, Reginald, 3,686,621.

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Altounyan, Roger Edward Collingwood; Howell, Harry; and Rowlands, Martyn Omar, 3,635,219.
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Stephens, Frederick N.; Rowlett, Glenford; and Beard, James D., 3,691,726.
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Jones, Elwyn David; and Rowley, Edward Kenneth, 3,706,625.
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Armstrong, Dale F.; McInteer, Bertus B.; Mills, Robert I.; Poiter, Robert M.; Robinson, Eugene S.; Rowley, John C.; and Smith, Morton C., 3,693,731.
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Bishop, John F.; Hunter, Walker F., Jr.; and Rowley, Martin E., 3,677,790.
- Clarke, Gerard J.; and Rowley, Martin E., 3,645,938.
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- Rowton, Richard Lee, to Jefferson Chemical Company, Inc. Cyanoalkylated polyoxyalkylene polyamines. 3,666,788, 5-30-72, Cl. 260-465,50r.
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Fawcley, Cecil Arthur; Simms, John Robert; Kenworthy, Derek; Roxburgh, Albert; and Hobbs, David, 3,683,141.
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- Roy, Guy W.: *See—*
Blake, Robert J.; and Roy, Guy W., 3,657,367.
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Wood, Charles; Schottmiller, John C.; and Roy, Rustom, 3,655,376.
- Roy, Salil K., to American Standard, Inc. Measurement of pore size and porosity. 3,683,674, 8-15-72, Cl. 73-38,000.
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Melreit, Robert V., 3,689,956.
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Rogers, Walter C., Jr., 3,652,125.
- Royal Industries, Inc.: *See—*
Adler, Jason A., 3,706,924.
- Congrove, Ronald L., 3,707,104.
- Evans, Ralph M., 3,668,033.
- Fritz, Alton L., 3,635,114.
- Kosmala, Ronald W.; and Whitaker, Ritchie W., 3,650,508.
- Rishovd, Sigurd A., 3,647,183.
- Royal London, Ltd.: *See—*
Ginsberg, Arthur; and Hirata, Atsumu, 3,643,375.
- Royal Packaging Equipment, Inc.: *See—*
Richter, Joseph, 3,659,393.
- Skiba, Alexander, Jr., 3,679,070.
- Royalite Oil Company, Limited: *See—*
Penzes, Stephen, 3,656,938.
- Royalty Designs of Florida: *See—*
Francis, James G.; and Pasley, Robert H., Sr., 3,705,836.
- Francis, James G.; and Pasley, Robert H., Sr., 3,705,935.
- Royalty Designs of Florida, Inc.: *See—*
Pasley, Robert H., Sr., 3,690,292.
- Royalty Designs of Florida, Inc., mesne: *See—*
Pasley, Robert H., 3,661,834.
- Royce, David Hugh: *See—*
Zerlin, William Max Erich; Avery, Roger Peter; and Royce, David Hugh, 3,671,922.
- Royce Frank A.: *See—*
Hammer, Herman J.; Heald, Sherman T.; and Royce Frank A., 3,689,725.
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- Roydon, William Merry, to AMP Incorporated. Electrical connector. 3,697,934, 10-10-72, Cl. 339-217,500.
- Royer, Budd R.: *See—*
Corson, Bolton L.; and Royer, Budd R., 3,643,932.
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- Royer, Clady J. Elastomeric spring bumper. 3,679,196, 7-25-72, Cl. 267-140,000.
- Royer, James M. Security device for sliding windows and doors. 3,640,559, 2-8-72, Cl. 292-288.
- Royer, Kenton D.: *See—*
Krone, Ben W.; and Royer, Kenton D., 3,705,408.
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Keller, Carol K.; Royka, Stephen F.; and Snelling, Christopher, 3,647,659.
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- Royka, Stephen F., to Xerox Corporation. Cascade development. 3,663,291, 5-16-72, Cl. 117-1.5.
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- Roylance, William H. Movable ladder. 3,641,619, 2-15-72, Cl. 182-15.
- Royle, Joseph Kenneth; Grant, John; and Golder, Jack Alexander, to United Kingdom Atomic Energy Authority. Fluid flow control devices. 3,664,360, 5-23-72, Cl. 137-81,500.
- Roymoulik, Sunanda K., to International Paper Company. Oxygen-peracetic acid-chlorine dioxide pulp bleaching sequence. 3,695,995, 10-3-72, Cl. 162-65,000.
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Askins, Robert E.; and Roys, George P., 3,701,278.
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- Royster, Larry H., to Honeywell Inc. Control apparatus. 3,673,441, 6-27-72, Cl. 310-8,600.
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- Roza, Abraham Gerrit Alexander, to Shell Oil Company. Process for producing electrode binder pitch and carbon black feedstock. 3,673,077, 6-27-72, Cl. 208-76,000.
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- Rozacky, Rebecca: *See—*
Rozacky, Eugene E.; and Rozacky, Rebecca, 3,702,615.
- Rozanov, Vladimir Alexeevich: *See—*
Veroman, Viktor Jurievich; Rozanov, Vladimir Alexeevich; and Rabinovich, Mikhail Yakovlevich, 3,673,372.
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Skrpko, Leonid Alexandrovich; Rozantsev, Eduard Grigorievich; and Polotovskaya, Lidia Grigorievna, 3,641,091.
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Rozelle, Donald S.; Rozelle, Ralph B.; and Nejib, Umid R., 3,668,450.
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- Rozenberg, Maxim Davidovich: *See—*

- Geshelin, Boris Mikhailovich; Maximov, Mikhail Mikhailovich; Rozenberg, Maxim Davidovich; and Yakovleva, Nadezhda Evgenievna, 3,686,491.
- Rozenbljum, Boris Fischelevich: *See—*
- Gurevich, Albert Efimovich; Rozenbljum, Boris Fischelevich; and Shaposhnikov, Igor Nikolaevich, 3,666,963.
- Rozendaal, Adrianus: *See—*
- Holscher, Ebo Jan; Okkerse, Cornelis; and Rozendaal, Adrianus, 3,649,563.
- Rozenshtein, Grigory Vladimirovich: *See—*
- Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borshev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Idelevich; Zhabin, Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhikhin, Vladimir Petrovich; Rubnikov, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Usyaslav Iosifovich; Sharipova, Ravia Davlyatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorievich, 3,654,325.
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- Rozentals, Alfred: *See—*
- McCloskey, Albert R.; and Rozentals, Alfred, 3,656,821.
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- Vzyatyshev, Viktor Feodosievich; Rozhkov, German Danilovich; Ryabov, Boris Ivanovich; and Udovenchik, Vasily Semenovich, 3,683,299.
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- Merry, Donald D., 3,648,941.
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- Merry, Donald D., 3,642,220.
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- Rozmus, Walter J.; and Rozmus, Matt T., 3,653,571.
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- Rozmus, Walter J.; and Rozmus, Matt T., to Kelsey-Hayes Company. Fine wire butt welder. 3,653,571, 4-4-72, Cl. 228-3.
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- RTV-SKF Officine di Villar Perosa S.p.A.: *See—*
- Giaccone, Giuseppe, 3,685,772.
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- Faure, Alphonse; Gigou, Claude; Mingat, Robert; and Ruad, Michel, 3,639,320.
- Quentin, Jean Pierre; and Ruad, Michel, 3,644,225.
- Quentin, Jean-Pierre; and Ruad, Michel, 3,689,315.
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- Stockl, Vilem, 3,699,926.
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- Hebert, Richard A.; Moynihan, Daniel J.; Paul, Donald E.; Petrovic, Louis J.; Rubel, Peter A.; and Seferian, Ralph, 3,663,283.
- Rubeling, Thomas J. Snow blocks invention. 3,633,290, 1-11-72, Cl. 36-2.
- Rubelsky, William C.: *See—*
- Midulla, Guiseppe, 3,699,046.
- Rubelsky, William P.: *See—*
- Midulla, Guiseppe, 3,699,046.
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- Sodickson, Lester A.; and Rubin, Martin J., 3,656,473.
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- Ernst, Hans; Semmler, Jurgen; Vohler, Otto; and Rubisch, Ottmar, 3,659,139.
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- Knabusch, Edward M.; Shoemaker, Edwin J.; and White, David B., 3,695,701.
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- Rubo Vertriebsgesellschaft m.b.H.: *See—*
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- Giambalvo, Vito Albert; and Ruby, Philip Randolph, 3,697,464.
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- McLean, William E.; and Ruch, David E., 3,671,949.
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- Oswald, Gernot; Wenzig, Wolfgang; and Ruchardt, Hugo, 3,657,609.
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- Borel, Robert J.; Corey, Leonard S.; Rucharski, Thaddeus W.; Stocking, John L.; and Thomas, Frederick H., 3,706,406.
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- Hahn, Helmut; Rebsdatt, Siegfried; Ruchlak, Kasimir; and Schuierer, Erich, 3,681,426.
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- Herion, Erich; and Ruchser, Erich, 3,699,993.
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- Cherniavskyj, Jaroslav; Prelletz, Edward R.; and Rucinski, Roland R., 3,666,205.
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- Hildebrandt, Peter; and Ruckdeschel, Walter, 3,641,311.
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- Smith, Charles Harry, 3,638,971.
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Blubaugh, Robert L.; Ruckle, Robert A.; and Watts, Hubert J., 3,704,522.
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Paris, Ray J.; and Rudd, Harry M., 3,665,376.
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Schollhamer, George R., 3,651,947.
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Siklos, Gregory; and Rudden, James B., 3,670,302.
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Hamrick, James C.; and Ruddick, Howard G., 3,669,087.
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Walter, Carlton H.; Rudduck, Roger C.; and Ryan, Charles E., Jr., 3,656,165.
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Gusev, Vladimir Alexeevich; and Rudenko, Nikolai Nikolaevich, 3,637,451.
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Hessler, Henry M., 3,677,313.
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Wiley, Nathaniel C., Jr.; and Kazakavage, Joseph R., 3,642,168.
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Hoffman, Lawrence C.; Rudnicki, Mark I.; and Williams, Howard W., 3,702,110.
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Freudeberg, Jurgen; and Rudolff, Hermann, 3,701,982.
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Bockmann, August; Essig, Karl-August; Feltgen, Karlheinz; Groschel, Herbert; and Rudolph, Hans, 3,642,713.
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Gould, Patrick; Row, John Henry Alexander; and Rudston, Stanley George, 3,660,467.
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Kochalski, Horst; Rudszinat, Willy; David, Harry; Erdmann, Otto; Rode, Ludwig; and Suck, Hans, 3,662,880.
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Langlois, Gordon E.; Olson, Lloyd J.; and Rudy, Charles E., Jr., 3,684,700.
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Bohni, Erika; Ruegg, Rudolf; and Ryser, Gottlieb, 3,705,249.
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Hazlewood, John F.; and Ruehl, Herbert T., 3,664,075.
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Guinzy, Norman J.; Kerns, Clyde W.; Ruehle, William H.; and Teague, Henry E., 3,696,331.
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Anderson, Theodore C.; Baum, Roger D.; Favin, David L.; and Rugo, John J., 3,637,954.
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- Newsom, Raymond A.; McLeod, Richard Kenneth; and Ruland, Norman L., 3,702,811.
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- Arning, Klaus H.; and Rumpf, Robert J., 3,694,890.
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- Johnston, William P., Jr., 3,651,717.
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- Rumyantsev, Valentin Ivanovich: *See—*
- Ivanov, Valery Vasilievich; and Rumyantsev, Valentin Ivanovich, 3,645,091.
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- Korodi, Miklos B.; and Runyan, Clarence R., 3,675,946.
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- Ruscetta, Ralph Antonio: *See—*
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- Hicks, Glen Elton, 3,678,651.
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- Rush, Donald J., to Butler Manufacturing Company. Method of adhering urethane foams. 3,706,622, 12-19-72, Cl. 156-306.000.
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- Rush, Harold F., to Garren Corporation, mesne. Pipe jack. 3,672,705, 6-27-72, Cl. 285-39.000.
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- Rush, Richard W. Self-cleaning air scrubber. 3,686,833, 8-29-72, Cl. 55-228.000.
- Rush, Robert L., to Pfizer Inc. Diagnostic method for the determination of uric acid in blood. 3,649,198, 3-14-72, Cl. 23-230.
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- Rushton, John R., to Bell Telephone Laboratories, Incorporated. Method for applying metal contacts onto diode array. 3,674,498, 7-4-72, Cl. 96-119.000.
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- Russ, Bobby L.; and Schmidt, Morris M. Motorcycle mounted face shield holder. 3,655,107, 4-11-72, Cl. 224-30.
- Russ, Edwin. Precision vise. 3,643,937, 2-22-72, Cl. 269-251.
- Russ, James Frederick: See—
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- Russ, John E. Wig holder with adjustable clamp. 3,653,563, 4-4-72, Cl. 223-66.
- Russ, John H. Bale stooker. 3,680,717, 8-1-72, Cl. 214-613.000.
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- Russ, Willard J., Jr. Walled structures such as swimming pools. 3,638,378, 2-1-72, Cl. 52-169.
- Russakoff, Robert S.; De Luca, Carlo Bruno; Schenker, Henry; Henchcliffe, Alfred L.; and Williams, Dennis C., to Burdy Corporation. Arc testing device. 3,694,694, 9-26-72, Cl. 315-194.000.
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- Russell, Ada Gwennola: See—
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- Willis, Grant N., 3,655,032.
- Russell, Arvin E. Towing dolly. 3,703,240, 11-21-72, Cl. 314-86.00a.
- Russell, Burdsall & Ward Bolt and Nuts Co.: See—
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- Russell, Carl D. Combination electrically and mechanically operated day and night remote controlled outside mirror. 3,666,354, 5-30-72, Cl. 350-281.
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- Rittiger, Robert S.; and Russell, Charles K., 3,668,099.
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- Russell, Cornelius R.; and Russell, Sid, to United Aircraft Corporation. Process for separating gases. 3,655,537, 4-11-72, Cl. 204-60.
- Russell, Dale F. Ventilated toilet. 3,703,010, 11-21-72, Cl. 4-216.000.
- Russell, Douglas O.: See—
- Russell, Kenneth F., 3,633,732.
- Russell, Edward J.: See—
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- Russell, Frank W., to Norris Industries, Inc. Method of keying a padlock. 3,701,195, 10-31-72, Cl. 29-434.000.
- Russell, Frederick, to Brown and Williamson Tobacco Corporation. Cigarette-making machinery. 3,664,351, 5-23-72, Cl. 131-110.

- Russell, George D.; and Smith, Samuel E. Football game target. 3,680,862, 8-1-72, Cl. 273-55.00r.
- Russell, Gerald Werner. Means for holding and dispensing articles. 3,653,542, 4-4-72, Cl. 221-307.
- Russell, James G.: See—
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- Russell, James G., to Westinghouse Electric Corporation. Method and means for starting high inertia motors. 3,691,413, 9-12-72, Cl. 310-41.000.
- Russell, James P.: See—
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- Mottern, Henry O.; and Russell, James P., 3,642,878.
- Russell, John D., to Microdot, Inc. Strain gauge temperature compensation system. 3,665,756, 5-30-72, Cl. 73-88.5.
- Russell, John G., to Parker-Hannifin Corporation. Quick disconnect coupling. 3,666,300, 5-30-72, Cl. 285-316.000.
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- Russell, John Patrick: See—
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- Hannan, William James; Russell, John Patrick; and Firester, Arthur Herbert, 3,703,407.
- Russell, Joseph L., to Halcon International, Inc. Process for preparation of borate esters. 3,665,028, 5-23-72, Cl. 260-462.
- Russell, Kenneth F.; deceased (by Russell, Marie D.; Russell, Thomas L.; and Russell, Douglas O.; heirs), to Brogden Company. Apparatus and method for filling boxes with a preselected quantity of discrete articles. 3,633,732, 1-11-72, Cl. 198-40.
- Russell, Kenneth L., to Malmstrom Chemical Corporation. Aqueous compositions containing lanolin oil. 3,666,857, 5-30-72, Cl. 424-240.
- Russell, Kenneth S. Stove ventilating apparatus. 3,667,371, 6-6-72, Cl. 98-115.000.
- Russell, Lamar V.: See—
- Harding, Charles I.; Russell, Lamar V.; Steeves, W. Malcolm; and Higgins, Irwin R., 3,660,040.
- Russell, Larry D.: See—
- Beam, Benjamin H.; and Russell, Larry D., 3,657,644.
- Russell, Larry Rayner: See—
- Koop, Francis Detrich, Jr.; Johnson, Paul Kingston; and Russell, Larry Rayner, 3,641,779.
- Russell, Lewis B.; and Kelly, William F., to Marine Sciences Corporation. Graphical plotter. 3,681,773, 8-1-72, Cl. 346-29.000.
- Russell, Lewis K.: See—
- Kleitman, David; Russell, Lewis K.; and Grebene, Alan B., 3,669,666.
- Russell, Lewis K.; and Banks, James L., to Signetics Corporation. Means including a spark gap for protecting an integrated circuit from electrical discharge. 3,676,742, 7-11-72, Cl. 317-33.00r.
- Russell, Lewis Keith, to Signetics Corporation. Learning circuit. 3,701,974, 10-31-72, Cl. 340-172.500.
- Russell, Linus E., to Peters and Russell, Inc. Pressure responsive switch with differential and range adjusting means including a differential nut. 3,636,288, 1-18-72, Cl. 200-83.
- Russell, Linus E., to International Telephone and Telegraph Corporation, mesne. Water pressure and like systems. 3,702,742, 11-14-72, Cl. 417-25.000.
- Russell, Luther J. Tethered aerial top. 3,643,373, 2-22-72, Cl. 46-61.
- Russell, Marie D.: See—
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- Russell, Peter B.: See—
- Rees, Richard W.; and Russell, Peter B., 3,637,688.
- Wolfe, Milton; Diebold, James L.; Russell, Peter B.; and Bell, Stanley C., 3,704,292.
- Russell, Peter B.; Fletcher, Horace, III; and Alburn, Harvey E., to American Home Products Corporation. Bialicyclic amino acids. 3,704,312, 11-28-72, Cl. 260-514.00r.
- Russell, Phillips G.; Guggenbickler, Leon E.; and Crawford, John H., to Brand S Corporation. Sheet stacking apparatus. 3,675,791, 7-11-72, Cl. 214-60.00k.
- Russell, Raymond Sidney. Water borne amphibious vehicle. 3,683,840, 8-15-72, Cl. 115-19.000.
- Russell, Richard Douglas; deceased (by Russell, Ada Gwennola; administratrix). Correct printing indicator. 3,650,240, 3-21-72, Cl. 116-114.
- Russell, Richard E., to Superior Tube Company. Tube rolling mill employing a tapered mandrel and a cluster of rolls that each have specially designed tube contacting grooves. 3,688,540, 9-5-72, Cl. 72-208.000.
- Russell, Robert G., to Owens-Corning Fiberglas Corporation. Method and apparatus for producing filaments by centrifugal forces. 3,644,108, 2-22-72, Cl. 65-8.
- Russell, Robert G., to Owens-Corning Fiberglas Corporation. Method of coating glass fibers. 3,676,094, 7-11-72, Cl. 65-3.000.
- Russell, Robert G., to Owens-Corning Fiberglas Corporation. Method and apparatus for production of glass fibers. 3,695,858, 10-3-72, Cl. 65-2.000.
- Russell, Robert Gordon: See—
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- Russell, Robert S.: See—
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- Russell, Robert W.: See—
- Zwilling, Martin I.; and Russell, Robert W., 3,691,498.
- Russell, Ronald R. Child-proof container. 3,666,338, 5-30-72, Cl. 312-215.
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- Frederiksen, Thomas M.; and Russell, Ronald W., 3,648,154.
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- Russell, Stanley L.: See—
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- Russell, Thomas B.: See—
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- Russell, Thomas E., to Flintkote Company, The. Pressure-sensitive hot-melt adhesives. 3,635,861, 1-18-72, Cl. 260-27.
- Russell, Thomas E., to Flintkote Company, The. Pressure-sensitive hot-melt adhesives. 3,686,107, 8-22-72, Cl. 260-270.
- Russell, Thomas L.: See—
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- Russell, William C., to Eastman Kodak Company. Electronically controlled variable rate film feeding mechanism for motion picture projectors. 3,702,730, 11-14-72, Cl. 352-191.000.
- Russell, William G., to Electrohome Limited. Signal translating networks and control circuits for the tuners of signal receivers. 3,673,523, 6-27-72, Cl. 334-15.000.
- Russell, William G., to Electrohome Limited. Switching network for dual tuners of a TV receiver. 3,693,091, 9-19-72, Cl. 325-319.000.
- Russell, William G., to Electrohome Limited. AGC impedance converter for varactor diode tuner. 3,693,092, 9-19-72, Cl. 325-319.000.
- Russell, William G., to Electrohome Limited. AGC impedance converter and voltage level shifter for high impedance source. 3,693,093, 9-19-72, Cl. 325-319.000.
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- Russell, William H., to Robertshaw Controls Company. Temperature sensing device and apparatus utilizing the same. 3,668,372, 6-6-72, Cl. 219-450.000.
- Russell, William N.: See—
- Balint, Laszlo J.; Lazarus, Stanley D.; and Russell, William N., 3,689,461.
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- Twiley, Ian C.; Russell, William N.; and Peterson, Weldon H., 3,704,100.
- Russell, William S., to Hooker Chemical Corporation. Metal coating process. 3,681,207, 8-1-72, Cl. 204-1.00t.
- Russell-French, Harry M., to Boothe Airside Services, Inc., mesne. Cargo container construction. 3,645,596, 2-29-72, Cl. 312-258.
- Russell-French, Harry M., to Boothe Airside Services, Inc., mesne. Cargo container construction. 3,647,100, 3-7-72, Cl. 220-1.5.
- Russell-Hobbs Limited: See—
- Hardy, Graham George; and Masters, Leonard Kenneth Morgan, 3,665,841.
- Russell-Rayner, Albert Patrick: See—
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- Russen, Albert, to International Standard Electric Corporation. Magnetostrictive filter and strain gauge. 3,639,861, 2-1-72, Cl. 333-71.
- Russenberger, Max E.: See—
- Allgower, Martin; Perren, Stefan; and Russenberger, Max E., 3,668,972.
- Russin, Nicholas C.: See—
- Droke, Joseph W.; Hataway, James E.; and Russin, Nicholas C., 3,669,921.
- McConnell, Wayne V.; Bond, James H.; and Russin, Nicholas C., 3,663,600.
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- Russo, Andrew, Jr., to General Motors Corporation. Hermaphroditic terminal. 3,644,872, 2-22-72, Cl. 339-47.
- Russo, Baldassare, Jr.: See—
- Russo, Carmela Mary; and Russo, Baldassare, Jr., 3,672,707.

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- Russo, Filippo: *See—*
Ghelardoni, Mario; and Russo, Filippo, 3,651,133.
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Mortillaro, Luigi; Russo, Mario; and Guidotti, Vincenzo, 3,647,765.
- Russo, Michael E.: *See—*
Bertsch, Hugh C.; and Russo, Michael E., 3,661,792.
- Russo, Paul; and Mowogrozki, Markus, to Polyflon Corporation. Variable capacitor. 3,675,093, 7-4-72, Cl. 317-249.00r.
- Russo, Paul, to Polyflon Corporation. Capacitor. 3,678,349, 7-18-72, Cl. 317-243.000.
- Russo, Robert R.: *See—*
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- Russo, Robert Ritter, to RCA Corporation. Process for forming an isolated circuit pattern on a conductive substrate. 3,682,785, 8-8-72, Cl. 204-15.000.
- Russo, Robert Ritter, to RCA Corporation. Process for forming a conductive coating on a substrate. 3,704,208, 11-28-72, Cl. 204-15.000.
- Russo, Robert V.: *See—*
Castner, Claire J.; Russo, Robert V.; and Berard, Raymond A., 3,670,050.
- Russo, Ronald D.: *See—*
Miller, Merlin S.; and Russo, Ronald D., 3,674,148.
- Rust, Charles M.: *See—*
Roberts, Thomas G.; Ehrlich, John J.; Hutcheson, Guilford J., Jr.; and Rust, Charles M., 3,642,007.
- Rust, John B., to Hughes Aircraft Company. Photopolymerizable composition useful in heat fixation process. 3,642,487, 2-15-72, Cl. 96-115.
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Jarowenko, Wadym; and Rutenberg, Morton W., 3,666,751.
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Tessler, Martin Melvyn; and Rutenberg, Morton Wolf, 3,699,095.
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Ruter, Hermann; Cherdron, Egon; Haerter, Manfred; and Bayer, Gerhard, 3,663,202.
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Boers, Jan H.; Rutherford, Robert C.; and Loquai, John R., 3,650,013.
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Steed, Frank Streeton; and Lawson-Tancred, Henry, 3,675,799.
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Peters, Eugene R.; and Rutherford, Walter H., 3,658,290.
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- Kunz, Max, 3,680,598.
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- Stucki, Peter, 3,705,606.
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Gasche, Urs; Lindlar, Herbert; Rutishauser, Max; and Steiner, Riedholz Kurt, 3,700,501.
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Gee, Lawrence N.; Marrs, Kenneth M.; and Rutkin, Edwin S., 3,650,512.
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Plumer, Lawrence H., 3,640,431.
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Saltich, Jack L.; and Rutledge, James L., 3,668,481.
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Schmidtko, Martin; Ruttenauer, Winfried; Penzl, Reinhold; and Vollmer, Brigitte, 3,646,305.
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Gresch, Walter; Pilch, Horst; and Ruttener, Erwin, 3,647,493.
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Sarett, Lewis H.; and Ruyle, William V., 3,676,451.
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Kilburn, Robert William, 3,667,242.
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Ilyashenko, Georgy Alexandrovich; Laventman, Vilyam Efimovich; Lichman, Nikolai Iosifovich; Rabinovich, Iosif Moiseevich; and Ryaboi, Nikolai Yakovlevich, 3,632,281.
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Vzyatyshev, Viktor Feodosievich; Rozhkov, German Danilovich; Ryabov, Boris Ivanovich; and Udovenchik, Vasily Semenovich, 3,683,299.
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Sidorov, Oleg Pavlovich; Ryabtsev, Pavel Sergeevich; and Lastochkin, Rostislav Ivanovich, 3,675,102.
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Vail, Thomas W.; and Ryan, Allen L., 3,677,555.
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Pigay, Robert F.; Ryan, Arthur B.; and Smith, Robert E., 3,641,431.
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Walter, Carlton H.; Rudduck, Roger C.; and Ryan, Charles E., Jr., 3,656,165.
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Souder, Louis C.; Larsson, Bjorn E.; and Ryan, Charles F., 3,655,825.
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Maughan, Ralph E.; and Ryan, Fred C., 3,635,092.
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Lehmann, Willi; and Ryan, Frederick M., 3,673,102.
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Bowen, Jack L.; and Ryan, James H., 3,693,132.
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Chang, Richard S.; Cutler, Stanley; La Branche, Harvey W.; Pearlman, Marshall B.; Ryan, John W.; and Toy, Raymond M., 3,647,927.
Groves, Sydney L.; Kuchta, Frank J.; Lewis, J. Stephen; Maurer, Donald J.; May, Richard L.; Ryan, John W.; and Vowles, Colin, 3,670,451.
Handler, Elliot; Ryan, John W.; Lemkin, Jack L.; and Dunn, Ralph, 3,686,894.
Meggs, Daniel H.; and Ryan, John W., 3,667,361.
Nuttall, Fleet E.; and Ryan, John W., 3,642,965.
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Beckham, Robert R.; Walters, Emmett L.; Brown, Jack G.; De Rose, Kenneth M.; and Ryan, Joseph D., 3,673,981.
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Salem, Eli; Butterworth, Donald J.; and Ryan, Leo F., 3,645,921.
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Verdol, Joseph A.; and Ryan, Patrick W., 3,637,558.
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Donovan, Timothy F.; and Ryan, William P., 3,651,260.
Hoffman, Ernest G.; and Ryan, William P., 3,651,259.
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Kusovsky, Boris Isaakovich; Pavlov, Nikolai Ivanovich; Matichenko, Anatoly Petrovich; Zakharov, Sergei Alexandrovich; and Birjukov, Dmitry Anatolevich, 3,704,222.
- Ryazantsev, Alek Isifovich: See—
Galutva, Gennady Vasilievich; Ryazantsev, Alek Isifovich; Presnyakov, Gennady Stepanovich; and Modestov, Jury Konstantinovich, 3,684,904.
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Lykov, Mikhail Vasilievich; Rybalchenko, Gleb Fedorovich; and Korotkov, Mikhail Alexeevich, 3,652,013.
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Petros, Andrew J.; and Rybar, Clement S., 3,664,518.
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Curtis, Lyda Darrell, 3,690,007.
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Andrade, Philip; and Rychlewski, Thaddeus V., 3,647,941.
Miller, John J.; and Rychlewski, Thaddeus V., 3,700,444.
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Brown, Harry W.; Rutchik, Walter L.; and Ryzek, Lawrence J., 3,639,822.
Halbeck, Werner B.; Quaal, John A.; Robbins, Clyde F.; Rutchik, Walter L.; and Ryzek, Lawrence J., 3,706,916.
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Griner, Arthur J.; and Ryder, George, 3,675,792.
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Ramsey, Gordon A.; Parsons, Norman C.; and Ryder, Mabel H., 3,706,823.
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Yancik, Joseph J.; Schulze, Roy E.; and Rydlund, Paul H., 3,640,784.
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Griffin, Theodore F.; and Rye, Grover W., 3,675,621.
Kovac, Frederick J.; and Rye, Grover W., 3,665,994.
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Jones, Harvey W.; and Ryer, Dudley A., Jr., 3,698,742.
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Gillespie, Bruce G.; and Ryer, Jack, 3,645,886.
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Andersen-Vie, Axel E., 3,684,243.
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Doyle, Brian W.; Rygelis, Joseph; and Sweet, Ervin J., 3,692,334.
Sweet, Ervin J.; Doyle, Brian W.; and Rygelis, Joseph, 3,698,743.
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Melges, Frederick J., 3,706,312.
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Berg, Lorne D.; and Rymes, John E., 3,683,816.
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Stacey, Frank Donald; Rynn, John Munro William; and Little, Eric Cooper, 3,698,094.
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Mathewson, Wilfred F., Jr.; and Ryon, David M., 3,684,097.
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Seko, Maomi; Yomiyama, Akira; Ogawa, Shinsaku; Tetsuya, Miyake; Ryozo, Komori; and Norito, Ogawa, 3,682,792.
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Bohni, Erika; Ruegg, Rudolf; and Ryser, Gottlieb, 3,705,249.
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Kalner, Veniamin Davidovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Ryskind, Alexandr Moiseevich; Semenov, Viktor Nikolaevich; Stepin, Anatoly Loginovich; Surov, Mikhail Andreevich; Shepelyakovsky, Konstantin Zakharovich; and Shklyav, Isaak Nakhimovich, 3,696,225.
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Cole, William J.; and Rytina, Anton W., 3,646,909.
Larsen, Jack H.; Trier, Louis J.; and Rytina, Anton W., 3,634,954.
- Ryzhevskaya, Tamara Nikolaevna: See—
Bogoroditsky, Alexandr Alexandrovich; Ryzhevskaya, Tamara Nikolaevna; Ryzhevsky, Alexei Gordeevich; and Shlyandin, Viktor Mikhailovich, 3,665,456.
- Ryzhevsky, Alexei Gordeevich: See—
Bogoroditsky, Alexandr Alexandrovich; Ryzhevskaya, Tamara Nikolaevna; Ryzhevsky, Alexei Gordeevich; and Shlyandin, Viktor Mikhailovich, 3,665,456.
- Rzhikhin, Vladimir Petrovich: See—
Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Idelevich; Zhabin, Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhikhin, Vladimir Petrovich; Rubnikovich, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich;
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- Rzucidlo, Alfred G.: See—
Ueltz, Herbert F. G.; and Rzucidlo, Alfred G., 3,637,360.
- S & C Electric Company: See—
Chabala, Leonard V., 3,697,712.
Evans, David Maurice; and Theodore, Roy, 3,676,629.
Harner, Robert H., 3,706,930.
- S & H Industries, Inc.: See—
Horowitz, Robert R., 3,637,097.
- S & S Corrugated Paper Machinery Co., Inc.: See—
Saunders, Lawrence J., 3,676,264.
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Bernatt, Joseph; and Gutmann, John T., 3,647,996.
Harner Robert H.; and Meister, Otto, 3,671,697.
- S and R Associates, Inc.: See—
Field, Greg A., 3,707,051.
- S. H. & G. Company: See—
Beachner, George J., Jr.; Beachner, Howard A.; and Panzarella, Santo C., 3,680,478.
- S&S Electric Company: See—
Chabala, Leonard V.; and Evans, David M., 3,696,729.
- S&S Research & Development Corporation: See—
Stanzola, Ralph T.; and Shuster, George A., 3,697,764.
- S.A. Albe: See—
Bertoglio, Guido, 3,689,965.
- S.A. Ateliers Belges Reunis: See—
Cuyllis, Jacques, 3,633,324.
- S.A. Bekaert-Cockerill: See—
Van de Loock, Guido; and Van Overbeke, Roeland, 3,702,093.
- S.A. Brush Company Limited: See—
Smyth, Donald N., 3,667,853.
- S.A. Cotexma N.V.: See—
Oosterlynck, Lin-Luc J. S., 3,695,962.
- S.A. Delalande: See—
Fauran, Claude P.; Gouret, Claude J.; Raynaud, Guy M.; and Douzon, Colette A., 3,687,965.
- S.A. des Anciens Etablissements, Paul Wurth: See—
Mahr, Rene N.; Radoux, Henri Joseph; and Burton, Clement E., 3,662,696.
Mahr, Rene N.; and Legille, Edouard, 3,693,812.
- S.A. des Etablissements Roure-Bertrand Fils & Justin Dupont: See—
Galfre, Andre Marc; Plattier, Marcel; and Teisseire, Paul Jose, 3,649,676.
- S.A. Forges de Bologne: See—
Portal, Pierre, 3,680,381.
- S.A. Francois Salomon et Fils: See—
Salomon, Georges Pierre Joseph, 3,694,937.
- S.A. Monk (Sutton-in-Ashfield) Limited: See—
Challenger, Frederick Raymond; Swanwick, Barry Frederick; Cotton, Cyril Ivan; and Gaunt, Dennis, 3,656,322.
Swanwick, Barry Frederick; West, Ernest; and Cuthbertson, John Harry, 3,673,819.
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Brepols, Joseph Rene; and Busschots, Armand August Florent, 3,671,217.
Verzele, Maurice G. E., 3,686,316.
- S.A. Sodialox: See—
Catulle, Lyderic G., 3,673,674.
- S.A. Teinturerie des Francs: See—
Libbrecht, Pierre, 3,638,458.
- S.A. Telecommunications Radioelectriques et Telephoniques T.R.T.: See—
Bellanger, Maurice Georges; Daguet, Jacques Lucien; and Duong, Tuan Kiet, 3,674,937.
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Lindahl, Bo Oscar; Lamme, Seth Eric Valentin; and Hallenrud, Sven Josef Harry, 3,702,734.
Lindstrom, Gunnar; and Schullstrom, Gunde, 3,636,318.
Rydell, Nils Folke, 3,635,061.
Wallgard, Gunnar Alexius, 3,638,014.
- Saab-Scania Aktiebolag: See—
Angelstrand, Borje; Ragnar, Mostrom; and Yngvesson, Henry, 3,690,642.
Goransson, Nils Paul, 3,664,187.
Olson, Lars-Olov Roland, 3,702,167.
Schullstrom, Sten Gunde; Freijd, Ingvar; Schader, Arne; and Olofsson, Nils Gunnar, 3,701,075.
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Dammann, Carl Leslie; and Saal, Frederick Alan, 3,660,768.
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- Pomernacki, Henry; and Saari, Oliver E., 3,661,313.
- Saari, Oliver E., to Illinois Tool Works Inc. Gear tooth form. 3,631,736, 1-4-72, Cl. 74-462.
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- Airola, Aito Kasimir; and Saarinien, Martti Kaarlo Johannes, 3,650,304.
- Saaty, Nabil Najib; and Jacobs, Richard Lee, to Upjohn Company. The Storage stable methylenebis (phenyl isocyanate) compositions. 3,701,796, 10-31-72, Cl. 260-453.0sp.
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- Jaag, Herbert, 3,701,958.
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- Schulz, Hansrichard; Bulow, Joachim; Schmitt, Berthold; and Schneider, Rudolf, 3,662,079.
- Saba Schwarzwalder Apparate-Bau-Anstalt August Schwer Sohne GmbH: *See—*
- Rossteutscher, Gerhard, 3,660,740.
- Schulz, Hansrichard, 3,633,109.
- Schulz, Hansrichard, 3,639,756.
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- Wessel, Karl-Heinz; and Sabadello, Erich, 3,652,757.
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- Sabatelli, Philip M.: *See—*
- Brennan, William R.; and Sabatelli, Philip M., 3,637,509.
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- Schlemmer, Lothar; Sabater, Eudaldo; and Kress, Gerhard, 3,652,759.
- Sabatie, Michele: *See—*
- Dubernet, Robert; and Sabatie, Michele, 3,676,576.
- Sabatino, Anthony: *See—*
- Buttke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., 3,668,761.
- Buttke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., 3,684,088.
- Buttke, Richard A.; Sabatino, Anthony; Orlando, Daniel; and Behrens, William H., 3,695,939.
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- Sabbah, Benjamin: *See—*
- Suhami, Albert; Sabbah, Benjamin; Inbar, Dan; Yarom, Artzi; and Ben-Zeev, Dan, 3,701,901.
- Sabee, Reinhardt N. Disposable diaper or the like. 3,642,001, 2-15-72, Cl. 128-287.
- Sabel, Alex: *See—*
- Bauer, Johann; Hollenbach, Georg; Popp, Walter; and Sabel, Alex, 3,642,948.
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- Sabel, John O.: *See—*
- Breeze, Eric G.; and Sabel, John O., 3,653,044.
- Sabel, Leon W.: *See—*
- Sabel, Arnold; Sabel, Herman; and Sabel, Leon W., 3,648,982.
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- Ortega, Robert; and Sable, Chester A., 3,653,513.
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- Sabo, Stephen C.: *See—*
- Neff, Harry F.; and Sabo, Stephen C., 3,705,224.
- Sabol, John A.: *See—*
- Fedder, Henry A.; and Sabol, John A., 3,638,795.
- Sabonis, Charles J.: *See—*
- Lozeau, Paul R.; and Sabonis, Charles J., 3,701,318.
- Sabourin, Edward T.: *See—*
- Ellis, Alan F.; and Sabourin, Edward T., 3,646,143.
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- Brockway, Charles E.; Schollenberger, Charles S.; and Sachara, Eugene F., 3,692,597.
- Sachkov, Vladimir Vladimirovich: *See—*
- Potak, Yakov Mikhailovich; Orzechovsky, Julian Felixovich; Sachkov, Vladimir Vladimirovich; Kagan, Efim Solomonovich; Valdman, Anna Ivanovna; Shpagina, Nadezhda Nikolaevna; Poplavko-Mikhailov, Mikhail Vasilievich; Fomin, Alexandr Pavlovich; and Natapov, Smon Leibovich, 3,690,869.
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- Sachs, Charles: *See—*
- Abbe, Lucien; and Sachs, Charles, 3,648,927.
- Sachs, Charles M.: *See—*
- Hittel, William C.; and Sachs, Charles M., 3,699,971.
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- Hombrecher, Friedrich, 3,697,724.
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- Grimm, Werner; Olschewski, Karl H.; and Sack, Rolf E., 3,706,520.

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- Radford, David L.; Beeley, Michael G.; and Sackett, William E., 3,632,041.
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- Sacks, Jacob M.: *See—*
- Zwirn, Robert; Johnson, Ralph E.; and Sacks, Jacob M., 3,702,405.
- Sacks, Robert Charles: *See—*
- Miller, Calvin Max; and Sacks, Robert Charles, 3,671,662.
- Sacks, William: *See—*
- Bhuta, Mahendra; and Sacks, William, 3,697,368.
- Sacom Sierra Inc.: *See—*
- Felt, Maurice D., 3,653,672.
- Sada, Masao: *See—*
- Shima, Takesaburo; Yamagishi, Akio; Sada, Masao; Osaki, Bonji; and Yamamoto, Zenichi, 3,636,098.
- Shima, Takesaburo; Yamagishi, Akio; Sada, Masao; Yamamoto, Zenichi; and Shiozaki, Hasunaga, 3,668,221.
- Sadagopan, Varadachari: *See—*
- Horwath, Ronald S.; and Sadagopan, Varadachari, 3,661,436.
- Kuhn, Lawrence; Sadagopan, Varadachari; and Tsui, Robert T., 3,696,312.
- Lean, Eric G.; Sadagopan, Varadachari; and Tseng, Samuel Chin-Chong, 3,648,081.
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- Porta, Paolo Della; and Rabusin, Elio, 3,669,567.
- Saf-Pla Corporation: *See—*
- Phillips, Cecil E.; and Bennett, Fay M., 3,673,687.
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- Perkins, Neale A., 3,664,560.
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- Pfaffendorf, James L.; and Johnson, Marilyn D., 3,707,023.
- Safe Way Hydraulics, Inc.: *See—*
- Stratman, Paul E., 3,674,051.
- Safetech, Inc.: *See—*
- Tonkovich, William; Meditz, John A.; and Vignola, Paul, 3,662,226.
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- Lee, Joo C., 3,668,469.
- Lee, Joo Chan, 3,697,808.
- Safety Devices, Inc.: *See—*
- Beck, Jacob C., 3,672,466.
- Safety Lift Corporation: *See—*
- Jones, Robert Louis, 3,695,396.
- Safety Research & Engineering Corporation: *See—*
- Barabino, William A., 3,659,264.

Safety Signaling, Inc., mesne: See—
Bernstein, Karl; and Walter, Earl Richard, 3,697,975.
Safety Speed Holster, Inc.: See—
Boren, Paul D., 3,642,183.
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Besoyan, Kirk, 3,638,766.
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Logan, Kenneth G., 3,683,842.
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Safstrom, Donald K.: See—
Erickson, Wallace A.; and Safstrom, Donald K., 3,686,782.
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Kolbe, William H.; Sagady, Alexander J.; and Suzuki, Taro, 3,671,154.
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Doi, Tetsuo; and Sagae, Shoji, 3,662,395.
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Nakamura, Shizuo; and Ito, Masanobu, 3,652,203.
Okada, Tomio; and Asai, Norio, 3,701,797.
Sagami, Hiroyuki: See—
Sato, Takehiko; and Sagami, Hiroyuki, 3,647,907.
Sagan, Carl: See—
Bar-Nun, Akiva; Bauer, Simon H.; and Sagan, Carl, 3,652,434.
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Ohfuka, Toshio; Sato, Hideo; and Sagara, Kazunori, 3,636,187.

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Fujii, Masaru; Sagara, Kazuo; and Isomura, Shuichi, 3,665,276.
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Terai, Kiyoshi; Itoh, Takashi; and Sagawa, Ryuichi, 3,658,286.
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Kiwell, Jozef; and Sage, Ira H., 3,659,771.
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Tenenholz, Robert, 3,706,042.
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Sager, Karl E., to Kimberly-Clark Corporation. Method and apparatus for making bias-laid products. 3,663,330, 5-16-72, Cl. 156-190.
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Gates, Peter Stuart; Gillon, John; and Saggers, David Thomas, 3,689,507.
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Shield, Walter; Saggers, Michael John; and Calnan, James, 3,683,897.
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Weinstein, Berel; and Sagi, Zsigmond L., 3,631,720.
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Klemm, Edwin O., 3,695,402.
Young, Richard S., 3,689,106.
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Hosoya, Mitsuru; Sahara, Hiroshi; and Morio, Minoru, 3,638,064.
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Westberg, Bengt Karl-Axel; Odman, Tor Axel; and Fahlstrom, Rune, 3,699,878.
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Sahy, Edward Griffin: See—
Wakeman, Reginald L.; and Sahy, Edward Griffin, 3,632,764.
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Hoffman, Harry S., Jr.; and Saia, Jerry, 3,681,623.
Saia, Jerry, to International Business Machines Corporation. Inverter circuits utilizing minority carrier injection in a semiconductor device. 3,696,285, 10-3-72, Cl. 321-45.00r.
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Azzola, Roberto, 3,706,628.
Saich, Anthony M.: See—
Buresh, Francis M.; Nisenson, Stanley M.; Lipscomb, Walter P.; and Saich, Anthony M., 3,704,191.
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Saiga, Johan: See—
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Saikawa, Isamu; Matubara, Yasumasa; and Hori, Takako, to Toyama Chemical Co., Ltd. Substituted 2-(benzenesulfonamido)-dymidines. 3,694,436, 9-26-72, Cl. 260-240.00d.
Saiko, Otto: See—
Schorre, Gustav; Nowak, Herbert; and Saiko, Otto, 3,658,825.
Saikonen, Evert Alexandrovich: See—
Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
Sailer, Siegfried: See—
Hornig, Rudolf; and Sailer, Siegfried, 3,693,726.
Sailer, William F.: See—
Shields, William B.; Willems, Victor H.; and Sailer, William F., 3,668,472.
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Saint Guilhem Humber, Pierre: See—
Baerg, William; and Saint Guilhem Humber, Pierre, 3,670,892.
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Gimenez, German Artigas, 3,656,928.
Saint-Gobain, mesne: See—
Lacourrege, Michel, 3,682,666.
Saint-Gobain Techniques Nouvelles: See—
Cherel, Guy H., 3,672,247.
Jorgensen, Pierre, 3,688,284.
Saint-Pastou, Joseph. Method of making cigarette paper with ash-retaining means. 3,632,384, 1-4-72, Cl. 117-44.

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Sainz, Raul T.: See—
Harrison, David; and Sainz, Raul T., 3,676,197.
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Saitman, William M.: See—
Throckmorton, Morford C.; and Saitman, William M., 3,676,411.
Saito, Akira: See—
Kakii, Shunichiro; and Saito, Akira, 3,656,851.
Yamane, Mikiya; Saito, Akira; Matsumoto, Katsuyoshi; Kawasumi, Kenichi; Murayama, Kazuo; and Sugiyama, Hiroshi, 3,642,340.
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Saito, Chiharu: See—
Yamamoto, Hisao; Inaba, Shigeo; Arasaki, Seitetsu; Maruyama, Isamu; Takahashi, Kei; Saito, Chiharu; and Sakai, Shigeru, 3,651,230.
Saito, Chikanori: See—
Hachisu, Mikio; Saito, Chikanori; Sitamura, Osamu; and Nambu, Yasuo, 3,659,323.
Saito, Hiroko: See—
Matsumoto, Yoshio; Shirai, Michiko; Saito, Hiroko; Kawashima, Takeshi; and Sakabe, Yuzuru, 3,694,149.
Saito, Hisatuna. Gap controlling device for a cone crusher. 3,700,175, 10-24-72, Cl. 241-37.000.
Saito, Ichiro: See—
Saito, Kazuo; Tanaka, Takeshi; and Saito, Ichiro, 3,651,177.
Saito, Kazuo; Tanaka, Takeshi; and Saito, Ichiro, 3,670,052.
Saito, Isamu: See—
Kato, Mahiko; Saito, Isamu; and Aizawa, Kensuke, 3,631,717.
Kato, Mahiko; Saito, Isamu; and Nishiba, Tuneo, 3,706,398.
Saito, Iso: See—
Fujii, Shigeru; and Saito, Iso, 3,639,335.
Saito, Jiro: See—
Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; and Moriki, Kiyoshi, 3,649,545.
Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; Ito, Humio; and Murakami, Keiichi, 3,660,551.
Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; and Moriki, Kiyoshi, 3,663,449.
Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; and Suzuki, Masao, 3,677,857.
Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; Murakami, Keiichi; and Hirakawa, Michio, 3,687,890.
Saito, Kazo: See—
Kida, Nobutoshi; and Saito, Kazo, 3,672,381.
Kida, Nobutoshi; and Saito, Kazo, 3,693,642.
Saito, Kazuhisa: See—
Matsushita, Fukusaburo; Saji, Yasuo; Saito, Kazuhisa; Tanaka, Kozo; and Yoshinari, Osamu, 3,702,880.
Yoshida, Masatoshi; Saji, Yasuo; Saito, Kazuhisa; and Ikegami, Shigeru, 3,701,819.
Saito, Kazuo: See—
Mayama, Takeshi; Miura, Taro; and Saito, Kazuo, 3,637,741.
Saito, Kazuo; Tanaka, Takeshi; and Saito, Ichiro. Thermoplastic polymer compositions and process of making the same. 3,651,177, 3-21-72, Cl. 260-876.
Saito, Kazuo; Tanaka, Takeshi; and Saito, Ichiro, to Kanegafuchi Chemical Industry Company Limited. Thermoplastic vinyl resin compositions, and method of manufacture. 3,670,052, 6-13-72, Cl. 260-876.00r.
Saito, Kazuyoski: See—
Naganuma, Masaaki; and Saito, Kazuyoski, 3,706,984.
Saito, Kimihiko: See—
Hanada, Keiichi; Saito, Kimihiko; and Iwase, Akikazu, 3,703,633.
Saito, Masahiro. Engine with an annular chamber. 3,670,705, 6-20-72, Cl. 123-8.470.
Saito, Masao: See—
Takashima, Masaru; Saito, Masao; Matsuyama, Shigeru; and Ueki, Kazufusa, 3,681,051.
Saito, Morio: See—
Arimura, Tohru; Kamata, Masamoto; Saito, Morio; Suzuki, Hiromu; and Iguchi, Masakazu, 3,677,045.

- Saito, Nagao; Kuji, Yoichi; and Arai, Sinji, to Mitsubishi Electric Corporation. Apparatus for shaping a workpiece by electrical discharge with detection means for stopping the shaping operation under abnormal conditions. 3,654,420, 4-4-72, Cl. 219-69.
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- Yoshiyasu, Mitsuo; Saito, Sadao; and Miyabe, Yoshio, 3,660,141.
- Saito, Shigeru: *See—*
- Sato, Shosuke; Saito, Shigeru; and Kobayashi, Saburo, 3,665,309.
- Yoshino, Takachika; Saito, Shigeru; Sasaki, Yutaka; and Nakamura, Yoshimi, 3,657,155.
- Yoshino, Takachika; Saito, Shigeru; Ishikura, Jun; Sasaki, Yutaka; and Sobukawa, Masakuni, 3,668,147.
- Yoshino, Takachika; Saito, Shigeru; Sasaki, Yutaka; and Nakamura, Yoshimi, 3,686,138.
- Saito, Shinji. Sensitive light and smoke detecting device with memory system. 3,663,859, 5-16-72, Cl. 315-151.
- Saito, Shinroku: *See—*
- Inoue, Kiyoshi; and Saito, Shinroku, 3,656,946.
- Saito, Shizuo: *See—*
- Sato, Shui; Sakamoto, Eiichi; Saito, Shizuo; and Sakazume, Kaichiro, 3,660,099.
- Sato, Shui; Sakamoto, Eiichi; Saito, Shizuo; Sakazume, Kaichiro; and Kaneko, Tokuzo, 3,663,210.
- Saito, Shoichi: *See—*
- Sato, Masaaki; and Saito, Shoichi, 3,666,203.
- Saito, Shosaku. Wiper device for the front windowpane of a motor-vehicle. 3,649,990, 3-21-72, Cl. 15-250.22.
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- Saito, Susumu: *See—*
- Yamamoto, Manabu; Tomiyama, Shunsuke; and Saito, Susumu, 3,651,367.
- Saito, Tadao: *See—*
- Inose, Hiroshi; and Saito, Tadao, 3,632,884.
- Inose, Hiroshi; Saito, Tadao; Tokunaga, Takehisa; and Tomizawa, Kenji, 3,692,942.
- Inose, Hiroshi; and Saito, Tadao, 3,694,580.
- Saito, Tadaomi: *See—*
- Shimazaki, Hidco; Tsukamoto, Shuji; Saito, Tadaomi; Eguchi, Sadanari; and Komata, Yasushi, 3,647,825.
- Saito, Tadashi: *See—*
- Maruyama, Shoji; Saito, Tadashi; Yoshida, Shigeaki; and Shimada, Masaru, 3,699,000.
- Maryama, Shoji; Saito, Tadashi; and Asami, Tomiaki, 3,695,885.
- Shiraishi, Syuhei; and Saito, Tadashi, 3,645,741.
- Yoshida, Shigeaki; and Saito, Tadashi, 3,667,955.
- Saito, Tadashi; Shimada, Masaru; and Sakai, Koyoshi, to Kabushiki Kaisha Ricoh. Dyeotype photoprinting material. 3,664,840, 5-23-72, Cl. 96-91.
- Saito, Takao: *See—*
- Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,652,345.
- Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,652,346.
- Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,658,605.
- Uchida, Hiromu; Umezono, Akimi; Saito, Takao; and Enari, Tsutomu, 3,671,205.
- Saito, Takashi: *See—*
- Inoue, Eiichi; Yamaji, Keizo; Tanaka, Hiroshi; and Saito, Takashi, 3,653,064.
- Inoue, Eiichi; Yamaji, Keizo; Tanaka, Hiroshi; and Saito, Takashi, 3,673,595.
- Saito, Tatsuo; Akahide, Kozo; and Ukebe, Teruo, to Kawasaki Steel Corporation. Submerged-arc both-side butt welding method of a square groove. 3,704,358, 11-28-72, Cl. 219-73.000.
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- Tanaka, Eiichiro; Onodera, Yutaka; Fukuda, Takeji; Yamashita, Tsutomu; Saito, Tetsuo; and Kumia, Shoji, 3,665,595.
- Saito, Toranosuke, to Sanko Chemical Co., Ltd. Cyclic organophosphorus compounds and process for making same. 3,702,878, 11-14-72, Cl. 260-936.000.
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- Saito, Toshiya: *See—*
- Kaneko, Ryuichi; Saito, Toshiya; Fujimura, Yasushi; Tanimura, Hiroshi; Nakamura, Totaro; and Ikeda, Yukisaburo, 3,676,585.
- Saito, Tsutomu: *See—*
- Morita, Shichiro; Shimazu, Hiroshi; Saito, Tsutomu; Nakamura, Hiroshi; and Maeda, Torata, 3,647,149.
- Saito, Yoshihisa: *See—*
- Kurita, Masaru; Saito, Yoshihisa; and Teraji, Tsutomu, 3,681,328.
- Saito, Yoshiomi: *See—*
- Komuro, Keiji; Inagami, Masaaki; and Saito, Yoshiomi, 3,639,651.
- Saito, Yoshitami: *See—*
- Fukushima, Osamu; Saito, Yoshitami; and Enomoto, Yuya, 3,654,066.
- Fukushima, Osamu; Saito, Yoshitami; and Enomoto, Yuya, 3,657,034.
- Nakajo, Shogo; and Saito, Yoshitami, 3,645,776.
- Saito, Yukinori: *See—*
- Okada, Tsuneo; Onodera, Yutaka; Mitsuoka, Takeshi; Saito, Yukinori; Muto, Yoshio; Anayama, Takeshi; and Yasukochi, Ko, 3,691,046.
- Saito, Yuzi: *See—*
- Watanabe, Takeshi; and Saito, Yuzi, 3,700,949.
- Saitoh, Kohichi; Ohkubo, Nobuo; Sobajima, Katsunobu; and Hirano, Takeshi, to Nissan Motor Company, Limited and Nippon Hatsujo Company, Limited. Multi-leaf spring for automotive suspension. 3,672,656, 6-27-72, Cl. 267-47.
- Saitou, Shiniche: *See—*
- Sato, Masaaki; and Saitou, Shiniche, 3,668,571.
- Sajben, Johannes Otto: *See—*
- Damsky, Walter; Joisten, Siegfried; and Sajben, Johannes Otto, 3,689,180.
- Saji, Yasuo: *See—*
- Fujii, Saburo; Saji, Yasuo; Yamada, Kozo; Makita, Zenji; and Ikegami, Shigeru, 3,689,621.
- Matsushita, Fukusaburo; Saji, Yasuo; Saito, Kazuhisa; Tanaka, Kozo; and Yoshinari, Osamu, 3,702,880.
- Yoshida, Masatoshi; Saji, Yasuo; Saito, Kazuhisa; and Ikegami, Shigeru, 3,701,819.
- Sajus, Lucien: *See—*
- Lassau, Christian; and Sajus, Lucien, 3,655,799.
- Lassau, Christian; Stern, Robert; and Sajus, Lucien, 3,663,635.
- Torck, Bernard; and Sajus, Lucien, 3,666,825.
- Sakabe, Akira; and Sugimoto, Kinji, to Hitachi, Ltd. Direct-current arc welder. 3,665,149, 5-23-72, Cl. 219-131.
- Sakabe, Yuzuru: *See—*
- Matsumoto, Yoshio; Shirai, Michiko; Saito, Hiroko; Kawashima, Takeshi; and Sakabe, Yuzuru, 3,694,149.
- Sakaguchi, Mitsuhiro: *See—*
- Kiji, Kazuo; Nishida, Nobuo; and Sakaguchi, Mitsuhiro, 3,664,722.
- Nishida, Nobuo; and Sakaguchi, Mitsuhiro, 3,658,402.
- Nishida, Nobuo; and Sakaguchi, Mitsuhiro, 3,677,622.
- Sakaguchi, Mitsuhiro; and Nishida, Nobuo, to Nippon Electric Company, Limited. Large capacity associative memory employing holography. 3,704,929, 12-5-72, Cl. 350-3.500.
- Sakaguchi, Tadao: *See—*
- Ohkawa, Masaaki; Matsuo, Masatoshi; Sakaguchi, Tadao; and Sato, Syozi, 3,682,907.
- Sakaguchi, Toshiaki: *See—*
- Moroe, Tatsuo; Komatsu, Akira; Akutagawa, Susumu; Sakaguchi, Toshiaki; and Matsuyama, Hirokazu, 3,706,809.
- Sakaguchi, Yoshikata; Sakai, Masakado; Ohki, Masanaga; Nakamura, Yashuharu; Tsubota, Motohiko; and Sato, Akira, to Fuji Photo Film Co., Ltd. Silver halide photographic emulsion. 3,694,217, 9-26-72, Cl. 96-130.000.
- Sakai, Akio: *See—*
- Yamamoto, Hiroshi; Kawase, Akira; and Sakai, Akio, 3,663,108.
- Sakai, Asahi: *See—*
- Clayton, David W.; and Sakai, Asahi, 3,661,698.
- Clayton, David W.; and Sakai, Asahi, 3,664,918.
- Clayton, David W.; and Sakai, Asahi, 3,664,919.

- Sakai Chemical Industry Co., Ltd.: *See—*
- Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiko; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,632,671.
- Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiko; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,657,046.
- Tada, Fusao; Inamine, Seiei; and Hatanaka, Tsutomu, 3,674,897.
- Sakai, Heiichi: *See—*
- Arima, Kei; Tamura, Gakuzo; Sakai, Heiichi; and Kohsaka, Masanobu, 3,692,777.
- Sakai, Hideaki: *See—*
- Maruyama, Mitsuo; Okabe, Akira; Yamazaki, Hideo; Sakai, Hideaki; Shimazu, Tadao; Kajiya, Shotaro; and Noda, Katsunobu, 3,651,056.
- Sakai, Hidetami; and Arita, Muneyoshi. Method of and apparatus for circulating liquid metals in fused salt electrolysis. 3,642,603, 2-15-72, Cl. 204-247.
- Sakai, Hirochika: *See—*
- Murata, Norio; Takeda, Toshihiko; Sakai, Hirochika; and Matsuda, Nobuyuki, 3,680,653.
- Sakai, Hiroshi: *See—*
- Morita, Ken-ichi; Mizushima, Toshio; Kitagawa, Hideji; and Sakai, Hiroshi, 3,632,798.
- Sakai, Hiroshi; Izumi, Zenji; Kitagawa, Hideji; Mamada, Satoshi; and Hoshina, Masakuni, to Toray Industries, Inc. Method of the solution polymerization of acrylonitrile. 3,660,527, 5-2-72, Cl. 260-85.5.
- Sakai, Ichio: *See—*
- Uozumi, Sumio; Sakai, Ichio; and Ohnuma, Kiyoshi, 3,703,110.
- Sakai, Katsuo: *See—*
- Ohta, Wasaburo; and Sakai, Katsuo, 3,677,751.
- Sakai, Kiyoshi: *See—*
- Kubo, Keishi; and Sakai, Kiyoshi, 3,649,422.
- Kubo, Keishi; Sakai, Kiyoshi; and Miyabe, Shuichi, 3,661,678.
- Kubo, Keishi; and Sakai, Kiyoshi, 3,675,013.
- Kubo, Keishi; and Sakai, Kiyoshi, 3,682,763.
- Kubo, Keishi; Sakai, Kiyoshi; Sato, Takashi; and Kuniaki, Hakamada, 3,689,302.
- Sakai, Koyoshi: *See—*
- Saito, Tadashi; Shimada, Masaru; and Sakai, Koyoshi, 3,664,840.
- Sakai, Kozi: *See—*
- Moriyama, Kunimasa; Kogure, Tomio; Sakai, Kozi; and Takeuchi, Keisaku, 3,688,811.
- Sakai, Kunio; Katsuragi, Sumio; and Watanabe, Sadakazu, to Tokyo Shibaura Electric Co., Ltd. Character reader having optimum quantization level. 3,668,637, 6-6-72, Cl. 340-146.3ag.
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- Sakai, Masaaki: *See—*
- Ninomiya, Shoichi; Sakai, Masaaki; Oka, Sakae; and Kusunoki, Kikunobu, 3,675,224.
- Yamagata, Seiichi; Sakai, Masaaki; Matsubara, Toshimoto; and Yamashita, Shigeji, 3,645,080.
- Sakai, Masaaki; to Fujitsu Limited. Large capacity ferromagnetic thin film memory device. 3,702,992, 11-14-72, Cl. 340-174.0tf.
- Sakai, Masakado: *See—*
- Sakaguchi, Yoshikata; Sakai, Masakado; Ohki, Masanaga; Nakamura, Yashuharu; Tsubota, Motohiko; and Sato, Akira, 3,694,217.
- Sakai, Masato: *See—*
- Komatsu, Koei; Okuya, Eitaro; Tomioka, Katsuyoshi; Sakai, Masato; Hayashi, Shigeki; Yasunaga, Hidetoshi; and Kogure, Akira, 3,669,943.
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- Sakai, Satoshi; Shirakawa, Kenzo; and Shimizu, Norio, to Matsushita Electric Works, Ltd. Magnetic escapement. 3,660,737, 5-2-72, Cl. 318-138.000.
- Sakai, Shigeru: *See—*
- Yamamoto, Hisao; Kitagawa, Sumio; Inaba, Shigeo; Sakai, Shigeru; Hirohashi, Toshiyuki; Maruyama, Isamu; Akatsu, Mitsunori; and Izumi, Takahiro, 3,641,002.
- Yamamoto, Hisao; Inaba, Shigeo; Arasaki, Seitetsu; Maruyama, Isamu; Takahashi, Kei; Saito, Chiharu; and Sakai, Shigeru, 3,651,230.
- Sakai, Shizuyoshi: *See—*
- Ishii, Yoshio; Sakai, Shizuyoshi; Fukuda, Nobuo; Shimada, Shoji; Kurokawa, Kikuro; and Suzuki, Rokuji, 3,654,156.
- Sakai, Shoji: *See—*
- Kometani, Yutaka; Tatemoto, Masayoshi; Okuda, Masahiro; Okuno, Chuzo; Sakata, Shinsuke; Sakai, Shoji; and Oka, Masahiko, 3,642,754.
- Sakai, Shoji, to Murata Machinery, Ltd. Automatic cop feeder. 3,704,810, 12-5-72, Cl. 221-236.000.
- Sakai, Shuzo; Miyake, Toshio; and Sato, Yoshinari, to Hayashibara Company. Process for producing ketose. 3,691,013, 9-12-72, Cl. 195-31.00r.
- Sakai, Tadao. Tone oscillator for an electronic musical instrument. 3,639,853, 2-1-72, Cl. 331-51.
- Sakai, Takamasa: *See—*
- Seko, Maomi; Ogawa, Shinsaku; Komori, Ryozi; Asuma, Masaro; Isoya, Toshiro; and Sakai, Takamasa, 3,674,653.
- Sakai, Tetsushi: *See—*
- Watanabe, Yoshio; and Sakai, Tetsushi, 3,640,806.
- Sakai, Tomoo: *See—*
- Fujii, Koichi; Sakai, Tomoo; and Kikuchi, Ichiro, 3,694,170.
- Sakai, Toshikiko: *See—*
- Nozaki, Choji; Kono, Kiichi; Sakai, Toshikiko; and Kamigaito, Osami, 3,696,604.
- Sakai, Toshinori, to Hitachi, Ltd. Microprogram-controlled data processing system capable of checking internal conditions thereof. 3,707,703, 12-26-72, Cl. 340-172.500.
- Sakai, Yasuhiro: *See—*
- Yoshikawa, Yoshio; and Sakai, Yasuhiro, 3,666,409.
- Sakai, Yoshikazu, to NGK Insulators, Ltd. Insulating spacer. 3,652,778, 3-28-72, Cl. 174-28.
- Sakaki, Hiroshi: *See—*
- Nakai, Taichiro; Sakaki, Hiroshi; Sato, Masanori; and Yuguchi, Hiroshi, 3,646,432.
- Sakaki, Naruhiko: *See—*
- Taki, Hiroyuki; Inouye, Kazuo; Sakaki, Naruhiko; and Futamata, Masayuki, 3,633,461.
- Sakakibara, Akira. Pipe coupling device. 3,653,688, 4-4-72, Cl. 285-105.
- Sakakibara, Hideo: *See—*
- Nagata, Akio; Ando, Takuji; Izumi, Rokuro; and Sakakibara, Hideo, 3,639,580.
- Sakakibara, Naoji: *See—*
- Kawabe, Tsuneo; Sakakibara, Naoji; and Kawabata, Yasuhiro, 3,694,039.
- Okamoto, Tosiaki; Inada, Masami; Takayama, Katuki; Hayashi, Tatsuo; Nishida, Koji; Sakakibara, Naoji; and Kamiya, Masao, 3,656,817.
- Sakakibara, Naoji, to Aisin Seiki Kabushiki Kaisha. Switching circuit for electrical devices of motor vehicles. 3,670,174, 6-13-72, Cl. 307-10.00r.
- Sakakibara, Shigeru: *See—*
- Noguchi, Masaaki; Sumiyoshi, Masaharu; Sakakibara, Shigeru; Ito, Osamu; and Kato, Takaaki, 3,667,322.
- Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,640,152.
- Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,653,281.
- Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,700,079.
- Sumiyoshi, Masaharu; Sakakibara, Shigeru; Ito, Osamu; and Kato, Takaaki, 3,640,151.
- Sumiyoshi, Masaharu; Sakakibara, Shigeru; Wakamatsu, Hisato; and Kato, Takaaki, 3,690,197.
- Sakakibara, Yasuhiro: *See—*
- Ohru, Tetsuya; and Sakakibara, Yasuhiro, 3,647,376.
- Sakakura, Akira; Yamamoto, Takaaki; Taguchi, Satoru; and Ueno, Kiyoshi, to Nippon Steel Corporation. Method for producing an electro-magnetic steel sheet of a thin sheet thickness having a high magnetic induction. 3,632,456, 1-4-72, Cl. 148-111.
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- Sakamaki, Hisashi: *See—*
- Kurahashi, Akira; Sakamaki, Hisashi; Kimura, Yoshimasa; and Kusunoki, Katsuo, 3,635,555.
- Sakamaki, Hisashi; Kimura, Yoshimasa; Sawamura, Osamu; and Sugura, Susumu, to Canon Kabushiki Kaisha. Electrophotographic apparatus. 3,693,969, 9-26-72, Cl. 271-57.000.
- Sakamoti, Kenro: *See—*
- Iwama, Masakuni; Inoue, Isaburo; Hanzawa, Teruo; Sakamoti, Kenro; and Endo, Takaya, 3,669,671.
- Sakamoto, Eiichi: *See—*

- Sakazume, Kaiichiro; Ito, Shigemasa; Sato, Shui; Sakamoto, Eiichi; and Oshima, Akio, 3,698,910.
- Sakazume, Kaiichiro; Sakamoto, Eiichi; Itoh, Shigemasa; Fujimori, Noboru; and Baba, Shigeji, 3,703,377.
- Sato, Shui; Sakamoto, Eiichi; Saito, Shizuo; and Sakazume, Kaiichiro, 3,660,099.
- Sato, Shui; Sakamoto, Eiichi; Saito, Shizuo; Sakazume, Kaiichiro; and Kaneko, Tokuzo, 3,663,210.
- Sato, Shui; Ishihara, Masao; Sakamoto, Eiichi; Shono, Masayuki; and Sugino, Osakazu, 3,663,230.
- Ushiyama, Rintaro; Sugino, Osakazu; Sato, Shui; Sakamoto, Eiichi; Yamada, Hiroshi; and Kikuchi, Shoji, 3,706,563.
- Sakamoto, Hiroshi: *See—*
- Yoshimura, Ipppei; Fukue, Norihiko; Sakamoto, Hiroshi; Murafushi, Hisashi; Hiya, Takami; and Matsunaga, Takao, 3,679,707.
- Sakamoto, Hitoshi: *See—*
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- Kikuchi, Katsumi; and Daigo, Koji, 3,689,630.
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Argraves, Neil E.; and Mann, David A. (said Neil & Argraves assor. to), 3,706,170.
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Prince, Martin; Blanck, Hillard; and Tarancon, Gregorio, 3,667,191.
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Reed, Gaylard O., 3,630,171.
Reed, Gaylard O., 3,664,395.
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Young, William G.; and Horning, Frederick G., 3,663,062.
Young, William G., 3,685,865.
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Wilson, Earl, 3,635,382.
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Gilmoure, Harold J., 3,675,356.
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Beth, Donald; Saliaris, George P.; and Welch, Ralph A., 3,650,774.
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Ullmann, Werner; Tadini, Costantino; and Salim, Ehsan, 3,655,937.
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Kargin, Valentin Alexeevich; Kabanov, Viktor Alexandrovich; Aliev, Kantamir Vagabovich; and Salimov, Rafail Mamed Ogly, 3,658,942.
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Atwell, William H.; Salingor, Rudolf M.; and Seibert, Richard P., 3,639,105.
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Ferris, James P., 3,670,007.
Orgel, Leslie E.; and Sanchez, Robert A., 3,658,788.
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McLain, Bruce H.; Sallee, John P.; and Ashton, Shirley B., 3,663,679.
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Krechmer, Kenneth Robert; and Salmon, Isidore William, 3,634,656.
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Hofmeister, Richard J.; and Salners, Edward A., 3,679,829.
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- Salomon, Georges Pierre Joseph. Adjustment of ski bindings. 3,686,950, 8-29-72, Cl. 73-379.00r.
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Walters, Anthony George, 3,672,485.
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Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Burtsev, Pavel Semenovich; Yanchevsky, Kazimir Stanislavovich; Saveliev, Leonid Ivanovich; Bolotin, Evgeny oiseevich; and Khaidurov, Leonid Konstantinovich, 3,656,810.
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Baron, Robert R.; Berndt, Edward W.; Van Essen, Harold E.; and Brunsting, Edwin L., 3,636,216.
Peterson, Oliver H., 3,706,663.
Welch, Dean E.; and Baron, Robert R., 3,632,777.
Welch, Dean E.; Nakae, Harry S.; and Vatne, Robert D., 3,642,784.
Welch, Dean E.; and Baron, Robert Richard, 3,689,556.
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Lawson, Darryl William; and Salter, David Stanley, 3,645,864.
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McClure, Glenn T.; and Salton, Robert B., 3,650,572.
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Bush, Stanley E.; Olson, David T.; and Saltus, George E., 3,649,761.
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Gilani, Syed S. H.; Murray, Donald W.; and Salva, Juan M., 3,681,242.
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Haglund, Bernard F.; and Salvarezza, Robert M., 3,675,257.
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Yorgin, Nick; and Salvati, John G., 3,632,939.
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Chiarelli, Robert; Rassat, Andre; Besson, Rene; and Salvi, Antoine, 3,702,831.
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Bedker, Bruce D.; and Wunderlich, Frederick C., 3,673,832.
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Bello, Phillip A.; and Salwen, Howard C., 3,689,841.
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Duncan, Richard D.; and Salzano, George H., 3,640,115.
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Hahn, Burkhard J.; Reise, Rolf M. E.; and Raschka, Walter R., 3,642,455.
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Bonis, Scott R.; Salzer, Thomas E.; and Robillard, David R., 3,635,333.
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Mahanty, Bhaskar Chandra; and Mahn, Gustav, 3,681,972.
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Odier, Jean; Samberth, Joerg; and Grundschober, Friedrich, 3,644,288.
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Odier, Jean; Sambeth, Joerg; and Grundschober, Friedrich, 3,644,286.
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Derr, Donald B.; Neff, Gordon W.; and Sambucetti, Carlos J., 3,707,455.
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Cecere, Andrew P., 3,685,108.
- Cohn, Eugene; and Catallo, Frank, 3,632,030.
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- Samluk, Stanley D., to Hercules Incorporated. Beater bar with dissimilar edges. 3,650,446, 3-21-72, Cl. 225-97.
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Boulanger, Gilbert; and Samoel, Alain, 3,678,735.
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Scherban, Alexandr Nazarevich; Furman, Neonil Izrailevich; Sotrichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Jury Ivanovich; Sutormin, Jury Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chaschinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna, 3,678,489.
- Samorian, James L.: *See*—
Keefer, Richard K.; and Samorian, James L., 3,661,018.
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Hara, Kazuo; Samoto, Mistunobu; Sawai, Masanobu; and Nakamura, Shiro, 3,704,168.
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Reinhard, John F.; Samour, Carlos M.; and Vida, Julius A., 3,663,699.
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Artaud, Maurice H.; Johnson, Ronald W.; and Sampath, Prativadi I., 3,674,354.
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White, Norman S., 3,670,730.
- Sampson, Gerald A.: *See*—
Schieven, Stanley R.; and Sampson, Gerald A., 3,669,448.
- Sampson, Ralph D. Mobile elevating scaffolds. 3,638,757, 2-1-72, Cl. 182-63.
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Robinson, Samuel M., 3,692,993.
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Sams, Gerald R.; and Watson, Robert H., 3,648,073.
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Klee, Gerhard, 3,646,963.
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Gery, Herbert C.; and Samson, Marvin S., 3,635,154.
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Klee, Gerhard, 3,633,604.
- Klee, Gerhard, 3,635,248.
- Klee, Gerhard, 3,643,435.
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Millette, Kenneth A., 3,695,072.
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- Uyeda, Tim M., 3,695,687.
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Holman, George; and Samuel, Eva Lea, 3,655,688.
- Samuel, Jon Michael Glen; and Rawlings, James Earl, to Diva Cars Limited; t/a Enfield Automotive. Method of making laminated motor land vehicle body. 3,686,051, 8-22-72, Cl. 156-212.000.
- Samuel, Ronald A. Electric typewriter key and keyboard arrangement. 3,633,724, 1-11-72, Cl. 197-100.
- Samuel, Trevor N.: *See*—
Eggleston, Donald A.; and Samuel, Trevor N., 3,700,839.
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Serino, Enrico; Antoniu, Demetrio; Magi, Mario; Ganzina, Fabrizio; and Samueli, Fabio, 3,651,059.
- Samuelian, Maurice P.: *See*—
Swanke, Roy L.; Valbona, Bruno M.; and Samuelian, Maurice P., 3,689,999.
- Valbona, Bruno M.; Emmons, Robert J.; and Samuelian, Maurice P., 3,667,084.
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- Samuels, Robert B.: *See*—
Holybee, Leslie D.; Faigh, Henry; and Samuels, Robert B., 3,645,698.
- Samuels, Ronald L., to TRW Inc. Radiant energy driven orientation system. 3,635,015, 1-18-72, Cl. 60-23.
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Samuels, Stanley J.; and Samuels, Samuel, 3,639,922.
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- Samuelson, Bruce E.; and Dunst, Robert A., to Whirlpool Corporation. Inlet valve and switch for central vacuum cleaner. 3,655,927, 4-11-72, Cl. 200-61.6.
- Samuelson, David W., to Samuelson Film Service Limited. Mounting brackets for cameras and other optical instruments. 3,638,889, 2-1-72, Cl. 248-206.
- Samuelson, Donald G., to Textron Inc. Integral disk brake apparatus for snowmobiles. 3,684,045, 8-15-72, Cl. 180-5.00r.
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Samuelson, David W., 3,638,889.
- Samuelson, Hans Olof: *See*—
Noreus, Sture Erik Olof; and Samuelson, Hans Olof, 3,639,205.
- Noreus, Sture Erik Olof; and Samuelson, Hans Olof, 3,652,385.
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- Samuelson, Leon C., to Johnson, S. C., & Son, Inc. Pressurized package. 3,647,119, 3-7-72, Cl. 222-402.18.
- Samuelsson, Bengt. 15, 19-Dihydroxy-9-keto-prostanoic acid. 3,657,316, 4-18-72, Cl. 260-468.
- Samuelsson, Lars-Gunnar: *See*—
Wennergren, Johan Jakob; and Samuelsson, Lars-Gunnar, 3,674,632.
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Ivanovichtrov, Vasily; Svetlichny, Boris Nikolaevich; Demidov, Jury Alexeevich; Elin, Nikolai Mikhailovich; Cherepanov, Vladimir Petrovich; Samuilov, Ivan Nikolaevich; and Cheprasov, Ivan Matveevich, 3,684,264.
- Samuilov, Nikolai Nikolaevich: *See*—
Chegolin, Petr Mikhailovich; Rimsky, Gennady Vasilievich; Leonovich, Eduard Nikolaevich; Milner, Fridrikh Grigorievich; Samuilov, Nikolai Nikolaevich; and Anishkevich, Nikolai Nikolaevich, 3,651,309.
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Aronson, Arthur H.; Lichy, Edward J.; Guess, Clifford A.; and Samways, Norman L., 3,661,537.
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Fitzsimons, Alan R.; and Phelps, Robert J., 3,647,983.
- Fitzsimons, Alan Rayment; and Phelps, Robert John, 3,649,772.
- Sana Products, Inc.: *See*—
Allard, Charles D.; and Allard, Eugene R., 3,694,653.
- Sanada, Akihiko: *See*—
Yonemitsu, Eiichi; Isshika, Tomiya; Suzuki, Tsuyoshi; and Sanada, Akihiko, 3,691,232.
- Sanada, Hisao: *See*—
Seki, Shigeru; and Sanada, Hisao, 3,644,319.
- Sanada, Noriaki; and Ito, Masaharu, to Canon Kabushiki Kaisha. Iris diaphragm for a camera. 3,675,562, 7-11-72, Cl. 95-64.00r.
- Sanborn, Charles E.: *See*—
Skinner, Jon R.; and Sanborn, Charles E., 3,658,928.
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Kalthoff, Robert J.; Sanborn, Frederic R. G.; and Bandenburg, Daniel J., 3,650,398.
- Sanchez, Albert A., to Litton Systems, Inc. Crane safety system. 3,638,211, 1-25-72, Cl. 340-267.
- Sanchez, Anastacio V. Clamp. 3,669,439, 6-13-72, Cl. 269-130.000.
- Sanchez, Anastacio V. Method of and apparatus for repairing deformed yieldable structures. 3,673,842, 7-4-72, Cl. 72-293.000.
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Soria, Alberto Olague; and Sanchez, Avelino Martinez, 3,648,435.
- Soria, Alberto Olague; and Sanchez, Avelino Martinez, 3,648,441.
- Sanchez, Edward J.: *See*—
Braun, Richard E.; Hopkins, Lionel G.; Sheehan, Neil J.; and Sanchez, Edward J., 3,678,576.
- Sanchez, Francois; and Jutras, Matial, to Chemcell Limited. Tool for removing ring travellers. 3,686,736, 8-29-72, Cl. 29-207.000.
- Sanchez Giraldez, Jose Humberto. Two-part lock button. 3,638,285, 2-1-72, Cl. 24-108.
- Sanchez, Jose: *See*—
Groepner, Jurgen; and Sanchez, Jose, 3,686,102.
- Sanchez, Jose, to Pennwalt Corporation. Liquid acyl sulfonyl peroxide-solvent compositions. 3,650,972, 3-21-72, Cl. 252-186.
- Sanchez, Jose Humberto Giraldez. Device for retaining a person on a support. 3,680,554, 8-1-72, Cl. 128-134.000.
- Sanchez, Manuel Rodriguez; and Baste, Jose Puigdomenech. Closure construction for plastic bags. 3,707,271, 12-26-72, Cl. 248-101.000.
- Sanchez, Moises G.: *See*—
Triggiani, Leonard V.; and Sanchez, Moises G., 3,671,453.
- Sanchez, Robert A.: *See*—
Orgel, Leslie E.; and Sanchez, Robert A., 3,658,788.
- Sanctuary, Clifford, to Del Mar Engineering Laboratories. Apparatus for automatically measuring and indicating blood pressure. 3,654,915, 4-11-72, Cl. 128-2.05.
- Sanctuary, Clifford, to Del Mar Engineering Laboratories. Remote scoring system for bombing or rocket range. 3,707,699, 12-26-72, Cl. 340-16.00m.
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Spaenig, Hermann; Steimmig, Anna; and Sand, Jakob, 3,652,581.
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Rother, Wolfgang; Mordig, Eberhard; Wenzel, Erwin; Cronert, Dieter; Sand, Karl; Kasbohm, Joachim; Henicke, Heinz; Landmann, Helmut; and Stocker, Winfried, 3,701,881.
- Sand, Robert T. Safety razor. 3,660,894, 5-9-72, Cl. 30-74.
- Sandbach, Peter, to Moore Business Forms Inc. Containers for transfer material webs. 3,687,386, 8-29-72, Cl. 242-55.000.
- Sandbank, Carl Peter, to ITT Industries, Inc. Solid state scanning by detecting the relief profile of a semiconductor body. 3,656,837, 4-18-72, Cl. 350-161.
- Sandberg, Bernard L.: *See*—
Duggan, Richard E.; Sandberg, Bernard L.; Reisner, Manfred; and Gascoigne, Allan J., 3,644,921.
- Sandberg, Eric A.: *See*—
Dahlquist, Ernst A.; and Sandberg, Eric A., 3,635,399.
- Sandberg, Harry W.: *See*—
Kendrick, Earl L.; and Sandberg, Harry W., 3,662,817.
- Sandberg, Kjell T-son: *See*—
Hagdorn, Manfred Otto; and Sandberg, Kjell T-son, 3,668,974.
- Sandberg, Rolf Henry: *See*—
Ringholm, Lars Gustav; and Sandberg, Rolf Henry, 3,658,236.
- Sandberg, Rune Verner, to Aktiebolaget Astra. Local anesthetics comprising α -phenyl- α -alkylsuccinimides. 3,636,221, 1-18-72, Cl. 424-274.
- Sandco Limited, mesne: *See*—
Torelli, Aldo; and Jacquemet, Andre, 3,667,626.
- Sandel, Herbert N. Box for holding tape cartridges. 3,675,763, 7-11-72, Cl. 206-45.140.
- Sandel Industries, Inc.: *See*—
Fritsche, Gale Ray, 3,650,311.
- Sandelman, Morris D., to Pale Corporation. Buckle. 3,685,106, 8-22-72, Cl. 24-265.0ws.
- Sandenburgh, George R., to Contromatics Corporation. Ball valve and pipe flange assembly. 3,643,916, 2-22-72, Cl. 251-151.
- Sandeno, James L.: *See*—
Miller, Harold J.; and Sandeno, James L., 3,658,965.
- Sander, Bruno: *See*—

- Becke, Friedrich; Fuchs, Friedrich; Kohlaupt, Reinhold; Sander, Bruno; and Thewis, Josef, 3,632,623.
Becke, Friedrich; and Sander, Bruno, 3,634,398.
Borchmann, Joern; Fuchs, Hugo; Goeschel, Gert; Sander, Bruno; and Sperber, Heinrich, 3,689,619.
Sander, Bruno; and Sperber, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Nonaqueous liquid pesticidal compositions. 3,639,630, 2-1-72, Cl. 424-325.
Sander, Bruno; Schmidt, Franz; and Sperber, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Stabilizing polyacetals. 3,641,196, 2-8-72, Cl. 260-849.
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Sander, Bruno; Sperber, Heinrich; Pommer, Ernst-Heinrich; Clad, Werner Helmut; and Wittmann, Otto, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Binders containing 1,3,5-trioxane for the production of processed wood materials. 3,651,006, 3-21-72, C. 260-3.2.
Sander, Hans Walter: *See—*
Sommer, Gunter; and Sander, Hans Walter, 3,675,465.
Sander, Hans-Georg, to VDO Tachometer Werke Adolf Schindling, GmbH. Moving coil measuring instrument. 3,706,034, 12-12-72, Cl. 324-154.00r.
Sander, Hans-Jurgen: *See—*
Lorenz, Hans Joachim; and Sander, Hans-Jurgen, 3,655,816.
Sander, Harry: *See—*
Pusche, Herbert; Sander, Harry; and Neuss, Hans-Wilhelm, 3,666,868.
Sander, Klaus: *See—*
Strobl, Georg; and Sander, Klaus, 3,666,990.
Sander, Otto; and Ulpe, Alexander, to Mannesmann Aktiengesellschaft. Offshore terminal. 3,668,875, 6-13-72, Cl. 61-46.000.
Sander, Paul F. Theft deterrent for office machines and small factory tools. 3,643,250, 2-15-72, Cl. 340-280.
Sander, Wendell B.; and Greene, Frank S., Jr., to Fairchild Camera and Instrument Corporation. Use of faulty storage circuits by position coding. 3,654,610, 4-4-72, Cl. 340-172.5.
Sander, Jiri, to Continental Device Corporation. Glass coated semiconductor. 3,632,432, 1-4-72, Cl. 117-201.
Sander, Jiri, to TRW Inc. Microalloy epitaxial varactor. 3,685,141, 8-22-72, Cl. 29-576.000.
Sander, Jiri, to TRW Inc. Method of making a semiconductor device. 3,689,392, 9-5-72, Cl. 204-192.000.
Sanderford, Freeman M.: *See—*
Valdo, Alex R.; and Sanderford, Freeman M., 3,704,117.
Sanderford, Freeman M.; and Ray, Jack C., to Kaiser Aluminum & Chemical Corporation. Surface modified alumina hydrate filler. 3,699,041, 10-17-72, Cl. 252-8.100.
Sanderford, Moses Vincent: *See—*
Inmon, Aubrey W.; and Sanderford, Moses Vincent, 3,688,458.
Sanders, Arthur Joseph, to Imperial Chemical Industries Limited. Bonded fibrous materials and methods for making them. 3,639,195, 2-1-72, Cl. 156-62.2.
Sanders Associates, Inc.: *See—*
Anderson, Glenn A., 3,662,455.
Babikyan, Jirair A., 3,656,040.
Baer, Ralph H.; Rusch, William T.; and Harrison, William L., 3,659,285.
Belluche, Robert A., 3,694,665.
Blitz, Daniel, 3,677,101.
Bouchard, Richard J.; and Belden, Richard C., 3,696,408.
Boucher, Gerald, 3,657,778.
Bourque, Edward L., 3,659,290.
Gabor, William D., 3,665,126.
Gabor, William D., 3,668,695.
Gabor, William D., 3,686,527.
Giles, George R.; and Shuda, Donald G., 3,656,064.
Godfrey, James P., 3,697,877.
Greenspan, Lawrence E.; and Whitaker, Earl J., 3,665,402.
Hale, David B., 3,668,687.
Hayner, Paul F.; and Brockway, Richard J., 3,688,800.
Hayner, Paul F.; and Eldridge, David G., 3,706,323.
Holmes, John F.; and Foudriat, Donald P., 3,633,884.
Johnson, Philip M.; Dudevior, Wilfried G.; and Northrup, Richard M., 3,704,070.
Jorgensen, Stig W.; and Johnson, Philip M., 3,662,180.
Laisi, Risto, 3,654,580.
Longland, John R.; Williams, Roy M., Jr.; Sutton, Howard D.; and Scopelite, Thomas M., 3,641,324.
Miller, Howard S.; and Shoorman, William, 3,665,409.
Misek, Victor A.; and Myers, Robert, 3,641,549.
Misek, Victor A., 3,677,647.
Naiman, Charles S.; and Pompian, Stuart D., 3,676,003.
Nicholson, James E.; and Adams, Richard H., 3,637,166.
Parkin, William J., 3,657,548.
Parkin, William J., 3,699,345.
Parkin, William J., 3,702,401.
Robbins, Robert; Whitty, Arthur R.; and Kachavos, Louis J., 3,697,876.
Rusch, William T., 3,659,284.
Stein, Bernard; and Davis, Sheridan, 3,699,343.
Stoddard, Robert D.; Schumacher, Arnold; Conley, Grant W.; and Williams, Roy M., Jr., 3,665,454.
Tauscher, Kenneth E.; Roome, Theodore F., Jr.; and Coon, David S., 3,699,449.
Tufts, Donald W.; Burt, Ralph E.; Davis, Victor I., Jr.; Queenan, James F.; Maloon, Richard A.; and Waterman, David W., 3,696,235.
Young, Donald S.; and Fricke, William C., 3,694,768.
Zebuhr, William Henry, 3,688,455.
Sanders Associates, Inc.: *mesne: See—*
Parkin, William J.; and Wilson, Joe C., Jr., 3,700,905.
Sanders, Bobby J., to Bendix Corporation, The. Superregenerative microwave receiver. 3,671,868, 6-20-72, Cl. 325-445.000.
Sanders, Charles J.: *See—*
Small, Rudolph E.; Bradley, John J.; Sanders, Charles J.; and Slawny, Howard J., 3,673,052.
Sanders, Charles J. Cylinder, sinkers, needle. 3,668,902, 6-13-72, Cl. 66-54.
Sanders, Dickerson H. Method and apparatus for gathering and confining live poultry. 3,672,335, 6-27-72, Cl. 119-82.000.
Sanders, Duane V., to Systematic Multi-Level Parking Company. Apparatus for transferring a vehicle to and from an elevator. 3,679,083, 7-25-72, Cl. 214-730.000.
Sanders, Frederick M. Decorative sheeting and garland. 3,637,452, 1-25-72, Cl. 161-15.
Sanders, Grady H.: *See—*
McCollough, John K.; Sanders, Grady H.; and Wethington, Charles A., 3,633,959.
Sanders, Grady H., to Deering Milliken Research Corporation. Ends down detector. 3,635,010, 1-18-72, Cl. 57-84.
Sanders, Graham Hodge, to Oceanography Mariculture Industries, Inc. Larvae rearing tank and circulation system for fish culture. 3,661,119, 5-9-72, Cl. 119-3.
Sanders, Graham Hodge, to Oceanography Mariculture Industries, Inc. Filtration and circulation system for maintaining water quality in mariculture tank. 3,661,262, 5-9-72, Cl. 210-169.
Sanders, Herbert L.; Swenson, Robert A.; and Braunwarth, John B., to Northern Petrochemical Company. Methyl ethers of polyalkoxylated polyols for removing acidic gases from gases. 3,653,183, 4-4-72, Cl. 55-56.
Sanders, James F.: *See—*
Donnelly, Charles A.; and Sanders, James F., 3,669,707.
Sanders, James F.; Baumgartner, Ronald R.; and Farago, Laszlo D., to Minnesota Mining and Manufacturing Company. Fusing process and device. 3,669,706, 6-13-72, Cl. 117-21.000.
Sanders, James Richard. Apparatus for generating high temperature steam. 3,636,929, 1-25-72, Cl. 122-460.
Sanders, James S., to Skid-Stack Corporation. Stackable pallet constructions. 3,664,272, 5-23-72, Cl. 108-53.000.
Sanders, James W.: *See—*
Gautraud, Michael G.; and Sanders, James W., 3,655,202.
Sanders, James W., to Brunswick Corporation. Golf game computer including improved drag circuit. 3,633,007, 1-4-72, Cl. 235-151.
Sanders, James W., to Brunswick Corporation. Golf game computer including bounce and roll generator. 3,633,008, 1-4-72, Cl. 235-151.
Sanders, James W., to Brunswick Corporation. Golf game computer including means for approximating the effects of backspin on range. 3,671,724, 6-20-72, Cl. 235-151.000.
Sanders, John L.: *See—*
Porter, Andrew W.; and Sanders, John L., 3,670,790.
Sanders, John Stewart; Savage, Donald Stanley; and Summerlin, Frederick Arthur, to Aerpat A.G., *mesne*. Lockbolt placing apparatus. 3,646,757, 3-7-72, Cl. 60-54.5.
Sanders, Kenneth Douglas; Botley, Geoffrey Sword; and Taylor, Jack William, to Credit Keys Limited. Lock controlled electric switch mechanisms. 3,705,507, 12-12-72, Cl. 70-364.00r.
Sanders, Lon L., to International Telephone and Telegraph Corporation. Aircraft electronic landing responder system using scanning pencil beam ground antenna. 3,648,285, 3-7-72, Cl. 343-6.5.
Sanders, Lon L., to International Telephone and Telegraph Corporation. Aircraft electronic landing responder system using airborne chirp interrogation. 3,680,089, 7-25-72, Cl. 343-6.50r.
Sanders, Lon L., to International Telephone and Telegraph Corporation. Instrument landing system using a retrodirective Sletten antenna responder. 3,699,571, 10-17-72, Cl. 343-6.50r.
Sanders, Neil Harrison: *See—*
Fritz, William Baird; Sanders, Neil Harrison; Reyner, Emerson Marshall, III; and Fox, Harry Alvin, Jr., 3,683,494.
Sanders, Niles G.: *See—*
Ballingall, Robert G.; and Sanders, Niles G., 3,680,448.
Sanders, Norman L.: *See—*
Wollney, John L.; Jawor, Ronald W.; and Sanders, Norman L., 3,646,680.
Sanders, Norman Thomas, to Needle Industries Limited. Machine for needling fabrics. 3,681,822, 8-8-72, Cl. 28-4.00r.
Sanders Nuclear Corporation: *See—*
Des Champs, Nicholas Howard; Mayo, Kenneth E.; Messier, Douglas Arthur; and James, Ronald William, 3,663,306.

- Deschamps, Nicholas H., 3,643,734.
Mayo, Kenneth E.; and Parker, Eugene K., 3,675,244.
Sanders, Ray W.; Keyes, Neil T.; and Quan, William, to Computer Transmission Corporation. Multiplexer. 3,665,405, 5-23-72, Cl. 340-172.5.
Sanders, Ray W.; Luce, David W.; and Quan, William, to Computer Transmission Corporation. Optical data transmission system. 3,705,986, 12-12-72, Cl. 250-199.000.
Sanders, Robert C., to Oxy-Dry Sprayer Corporation. Apparatus for powder removal. 3,680,528, 8-1-72, Cl. 118-50.000.
Sanders, Robert E.: *See—*
Iosue, Michael F.; and Sanders, Robert E., 3,652,897.
Sanders, Robert K.: *See—*
Nelson, Robert E.; Sanders, Robert K.; and Watts, Oran Alton, III, 3,636,332.
Nelson, Robert E.; Sanders, Robert K.; and Watts, Oran Alton, III, 3,636,335.
Sanders, Robert N.; and Johnston, James D., to Ethyl Corporation. Minerals separation process. 3,669,266, 6-13-72, Cl. 209-166.000.
Sanders, Terry D.: *See—*
Miller, Lalan G.; and Sanders, Terry D., 3,657,625.
Sanders, Vernard W.: *See—*
Fane, William J.; and Sanders, Vernard W., 3,653,235.
Sanders, Walter J., to Westinghouse Air Brake Company. Low oil pressure control system for compressors. 3,682,574, 8-8-72, Cl. 417-12.000.
Sanders, Wes E. Automatic locking movable bulkhead. 3,641,941, 2-15-72, Cl. 105-376.
Sanders, Wes E.; and Allen, John W., to Stanray Corporation. Hinge construction. 3,685,093, 8-22-72, Cl. 16-147.000.
Sanderson, Charles L.; and Sauer, Earl S., to Continental Oil Company. Process for the purification of alkylate. 3,671,601, 6-20-72, Cl. 260-671.00b.
Sanderson, Dewey S. C. Cabinet for storing microscopic slides. 3,674,358, 7-4-72, Cl. 312-126.000.
Sanderson Films, Inc.: *See—*
Mullins, Donald L., 3,638,967.
Sanderson, Frank T.: *See—*
Burns, Joseph P.; Feltzin, Joseph; and Sanderson, Frank T., 3,639,295.
Sanderson, Gary Warner: *See—*
Gurkin, Martin; Sanderson, Gary Warner; and Graham, Harold Nathan, 3,666,484.
Gurkin, Martin; Sanderson, Gary Warner; and Studer, Victor Vernon, 3,669,680.
Sanderson, George H., Jr. Snap-on spanner wrench. 3,693,484, 9-26-72, Cl. 81-90.00c.
Sanderson, Glenn A.: *See—*
O'Hanlon, James F., Jr.; and Sanderson, Glenn A., 3,648,688.
O'Hanlon, James F., Jr.; and Sanderson, Glenn A., 3,699,949.
Sanderson, John L.; and Swift, Edward W., to Shell Oil Company. Process for the oxidation of aryl alkyl sulfoxides to aryl alkyl sulfones. 3,699,171, 10-17-72, Cl. 260-607.00a.
Sanderson, Leon Franklin: *See—*
Hubbard, Arthur Lowell; and Sanderson, Leon Franklin, 3,643,407.
Sanderson, Robert A., to United Aircraft Corporation. Fuel cell system having a natural circulation boiler. 3,698,957, 10-17-72, Cl. 136-86.00c.
Sanderson, Thomas F., to Hercules Incorporated. Tall oil rosin of low sulfur content. 3,655,635, 4-11-72, Cl. 260-977.
Sandford, Dean: *See—*
Tucker, Eura, 3,659,868.
Sandhage, Ellsworth: *See—*
Taylor, Arthur Sinclair; Sandhage, Ellsworth; Bott, George; and Konazewski, William, 3,698,450.
Sandhage, Ellsworth Roland: *See—*
Taylor, Arthur Sinclair; and Sandhage, Ellsworth Roland, 3,656,517.
Sandhu, Jagtar S.: *See—*
Dhaka, Vir A.; Reuter, James L.; and Sandhu, Jagtar S., 3,634,204.
Lyons, Vincent J.; and Sandhu, Jagtar S., 3,658,606.
Reuter, James L.; and Sandhu, Jagtar S., 3,666,546.
Sandifer, Cecil W.: *See—*
Hardy, Richard W.; Knowlen, Robert B.; Sandifer, Cecil W.; and Plake, William C., 3,670,164.
Sandiford, Burton B., to Union Oil Company of California. Regulation of irrigation water. 3,633,310, 1-11-72, Cl. 47-58.
Sandler, Stanley R., to Borden Company, The. Polyvinyl acetate adhesives containing inorganic zirconium salts. 3,677,883, 7-18-72, Cl. 161-251.000.
Sandler, Stanley Robert, to Borden, Inc. Preparation of N-vinyl carbazole. 3,679,700, 7-25-72, Cl. 260-315.000.
Sandler, Yehuda L., to Westinghouse Electric Corporation. Hydrophobic layers for gas diffusion electrodes. 3,671,323, 6-20-72, Cl. 136-86.00d.
Sandler, Yehuda L., to Westinghouse Electric Corporation. Stabilization of silver catalyst in an air diffusion electrode. 3,682,707, 8-8-72, Cl. 136-86.00e.
Sandlin, Billy J.: *See—*
Hubbuck, Theodore; Murfree, James A., Jr.; Duncan, William A.; Sandlin, Billy J.; and Nappier, Henry A., 3,664,969.
Hubbuck, Theodore N.; Murfree, James A., Jr.; Duncan, William A.; Sandlin, Billy J.; and Nappier, Henry A., 3,667,231.
Murfree, James A., Jr.; Hubbuck, Theodore N.; Nappier, Henry A.; Duncan, William A.; and Sandlin, Billy J., 3,667,219.
Sando Iron Works Company Limited: *See—*
Sando, Yoshikazu; and Takasu, Masao, 3,651,671.
Sando, Yoshikazu; and Takasu, Masao, 3,686,900.
Sando, Yoshikazu; and Takasu, Masao, to Sando Iron Works Company Limited. High pressure steamer. 3,651,671, 3-28-72, Cl. 68-5.
Sando, Yoshikazu; Tsuchihashi, Takashi; and Ishidoshiro, Hiroshi, to Santo Iron Works Co., Ltd. Process for a liquid treatment of cloth. 3,655,328, 4-11-72, Cl. 8-149.1.
Sando, Yoshikazu; and Ishidoshiro, Hiroshi. Washing of a contaminated guide-roll and prevention therefrom in cloth treatments. 3,665,531, 5-30-72, Cl. 8-151.
Sando, Yoshikazu; and Takasu, Masao, to Sando Iron Works Company, Limited. Pressure sealing apparatus. 3,686,900, 8-29-72, Cl. 68-5.00e.
Sandor, Andrew J.: *See—*
Walsh, Kenneth A.; and Sandor, Andrew J., 3,642,463.
Sandor, Bela: *See—*
Brocbman, Henry J.; and Sandor, Bela, 3,679,251.
Campbell, Edward E.; and Sandor, Bela, 3,703,308.
Sandor, Bela Thomas, to Automated Feed Mills Limited. Disintegrating and mixing apparatus especially for animal foods. 3,705,695, 12-12-72, Cl. 241-34.000.
Sandor, Mirlos; Nyitray, Istvan; and Nemeth, Jozsef, to Borsodnadasdi Lemezyar. Method of improving refractory mouldings, particularly refractory bricks. 3,689,615, 9-5-72, Cl. 264-474.000.
Sandorf, Robert E.: *See—*
Algeri, Harvey R.; and Sandorf, Robert E., 3,682,131.
Sandoval, Antonio A.; and Donlavy, Donald J. Electromechanical base converter. 3,681,859, 8-8-72, Cl. 35-30.000.
Sandoz Limited: *See—*
Till, Heinrich, 3,650,682.
Sandoz Ltd.: *See—*
Altermatt, Rudolf; Entschel, Roland; and Mueller, Curt, 3,671,529.
Baumann, Hans-Peter; and Keller, Robert-Christian, 3,691,204.
Baumann, Hans-Peter; and Keller, Robert Christian, 3,706,530.
Bormann, Gerhard; and Troxler, Franz, 3,657,245.
Buecheler, Paul; and Mueller, Fred, 3,679,685.
Buecheler, Paul; and Steiner, Karl Ulrich, 3,703,350.
Ebner, Cuno; and Schuler, Max, 3,644,355.
Ehrhardt, Klaus; Geiger, Georg; and Kehrer, Fritz, 3,660,375.
Entschel, Roland; Kaeppli, Viktor; and Mueller, Curt, 3,632,302.
Entschel, Roland; Mueller, Curt; and Siegrist, Hans, 3,634,389.
Forster, Willy; Henrard, Armand; Kehrer, Fritz; Keller, Urs Martin; and Wasem, Hans, 3,671,514.
Frey, Wolfgang; and Schoenauer, Wolfgang, 3,646,071.
Groebke, Wolfgang, 3,632,801.
Hofer, Kurt, 3,707,565.
Hrach, Josef; and Wimmer, Theodor, 3,660,358.
Hrach, Joseph, 3,673,139.
Luecke, Juergen, 3,646,103.
Luecke, Juergen, 3,663,589.
Matter, Max; and Oberholzer, Rolf, 3,632,559.
Matter, Max; Weidele, Othmar; and Raspanti, Giuseppe, 3,639,642.
Mikula, Adam, 3,658,460.
Troxler, Franz; and Seemann, Fritz, 3,671,587.
Troxler, Franz, 3,696,121.
Troxler, Franz, 3,705,907.
Von Tobel, Hans, 3,668,218.
Von Tobel, Hans, 3,674,783.
von Tobel, Hans, 3,679,675.
Sandoz Ltd.; (a/k/a Sandoz A.G.): *See—*
Gutmann, Stephan; and Huguenin, Rene, 3,681,355.
Sandoz Ltd.; a/k/a Sandoz A.G.: *See—*
Altermatt, Ruedi, 3,637,669.
Bastian, Jean-Michel; and Schwarb, Gustav, 3,654,286.
Benz, Jakob; and Schweizer, August, 3,660,386.
Bollinger, Pietro; Harri, Eugen; and Sigg, Hans-Peter, 3,655,880.
Bormann, Gerhard; Gmunder, John; and Wilkens, Heinrich, 3,671,541.
Bormann, Gerhard; Gmunder, John; Wilkens, Heinrich; and Troxler, Franz, 3,674,801.
Closse, Annemarie; and Harri, Eugen, 3,697,650.
Ebnother, Anton; Bastian, Jean-Michel; and Gadiant, Fulvio, 3,678,057.
Ebnother, Anton; Bastian, Jean-Michel; and Rissi, Erwin, 3,678,058.
Entschel, Roland; and Steinemann, Willy, 3,674,772.
Frei, Alfred; and Schweizer, August, 3,700,653.
Gagnaux, Pierre, 3,678,050.
Gertisser, Berthold, 3,652,601.
Hunziker, Fritz; and Schmutz, Jean, 3,697,523.

- Jenny, Hanns; and Kieslinger, Georges, 3,707,395.
 Leber, Jean Pierre; and Lutz, Karl, 3,634,556.
 Leber, Jean-Pierre, 3,649,719.
 Leber, Jean-Pierre, 3,649,720.
 Milzner, Karlheinz; and Reisser, Fritz, 3,663,544.
 Mueller, Curt; and Zirngibl, Ulrich, 3,632,589.
 Neier, Reinhard, 3,632,568.
 Oppolzer, Wolfgang, 3,679,699.
 Petrzilka, Theodor; Hofmann, Albert; Schenk, Hansruedi; Troxler, Franz; Frey, Albert; and Ott, Hans, 3,647,801.
 Reisser, Fritz, 3,636,001.
 Schneider, Rupert, 3,705,159.
 Schweizer, August, 3,643,269.
 Seemann, Fritz; and Troxler, Franz, 3,699,123.
 Sigg, Hans-Peter; and Stoll, Christian, 3,651,007.
 Sigg, Hans-Peter; and Stoll, Christian, 3,659,005.
 Stadler, Paul; Hauth, Hartmut; Wersin, Gernot; Guttman, Stephan; Hofmann, Albert; Stutz, Peter; and Willems, Hans, 3,652,569.
 Stauffacher, Dietrich; and Hauth, Hartmut, 3,642,862.
 Trueb, Werner; and Reisser, Fritz, 3,634,435.
 Von Wartburg, Albert; Kuhn, Max; and Renz, Jany, 3,634,459.
 Sandoz Ltd., mesne: See—
 Okada, Hitoshi; Kaneko, Masaharu; Kato, Yoshiaki; and Honda, Hiroshi, 3,646,069.
 Sandoz-Wander, Inc.: See—
 Anderson, Paul L.; Houlihan, William J.; and Manning, Robert E., 3,706,690.
 Anderson, Paul L.; Houlihan, William J.; and Manning, Robert E., 3,706,744.
 Barcza, Sandor, 3,636,012.
 Barcza, Sandor, 3,636,025.
 Barcza, Sandor, 3,637,735.
 Barcza, Sandor, 3,637,782.
 Buzzolini, Mario G.; and Manning, Robert E., 3,658,964.
 Buzzolini, Mario G., 3,674,807.
 Cooke, George A.; Dugger, Harry A.; and Houlihan, William J., 3,657,268.
 Cooke, George A.; and Houlihan, William J., 3,686,178.
 Cooke, George A.; and Griot, Rudolf G., 3,687,973.
 Coombs, Robert V.; and Galantay, Eugene E., 3,655,652.
 Coombs, Robert V.; and Galantay, Eugene E., 3,661,940.
 Eberle, Marcel K.; and Houlihan, William J., 3,632,604.
 Eberle, Marcel K., 3,634,426.
 Eberle, Marcel K., 3,663,567.
 Eberle, Marcel K., 3,681,388.
 Eberle, Marcel K.; and Houlihan, William J., 3,682,897.
 Eberle, Marcel K.; and Houlihan, William J., 3,699,119.
 Gabel, Lloyd P.; and Simpson, William R. J., 3,637,699.
 Gabel, Lloyd P.; and Simpson, William R. J., 3,637,700.
 Gabel, Lloyd P.; and Simpson, William R. J., 3,637,701.
 Galantay, Eugene E., 3,632,853.
 Galantay, Eugene E.; and Ott, Hans, 3,641,133.
 Galantay, Eugene E., 3,651,141.
 Galantay, Eugene E., 3,651,143.
 Griot, Rudolf G., 3,660,579.
 Griot, Rudolf G., 3,668,234.
 Griot, Rudolf G.; and Buzzolini, Mario G., 3,671,583.
 Griot, Rudolf G., 3,681,365.
 Griot, Rudolf G., 3,683,086.
 Griot, Rudolf G., 3,703,560.
 Habeck, Dietmar A.; and Houlihan, William J., 3,660,402.
 Hardtmann, Goetz E., 3,642,897.
 Hardtmann, Goetz E.; and Ott, Hans, 3,644,354.
 Hardtmann, Goetz E., 3,660,414.
 Hardtmann, Goetz E., 3,660,415.
 Hardtmann, Goetz E.; and Huegi, Bruno S., 3,660,500.
 Hardtmann, Goetz E.; Ott, Hans; and Sandoz-Wander, Inc., 3,663,698.
 Hardtmann, Goetz E., 3,691,167.
 Hardtmann, Goetz E., 3,704,300.
 Houlihan, William J., 3,635,967.
 Houlihan, William J.; and Manning, Robert E., 3,635,984.
 Houlihan, William J.; and Manning, Robert E., 3,637,709.
 Houlihan, William J.; and Manning, Robert E., 3,637,849.
 Houlihan, William J.; and Manning, Robert E., 3,637,850.
 Houlihan, William J.; and Manning, Robert E., 3,642,777.
 Houlihan, William J.; and Eberle, Marcel K., 3,642,814.
 Houlihan, William J.; and Manning, Robert E., 3,644,369.
 Houlihan, William J.; and Manning, Robert E., 3,644,370.
 Houlihan, William J.; and Manning, Robert E., 3,655,648.
 Houlihan, William J., 3,657,239.
 Houlihan, William J., 3,657,242.
 Houlihan, William J., 3,657,269.
 Houlihan, William J.; and Manning, Robert E., 3,657,337.
 Houlihan, William J., 3,658,814.
 Houlihan, William J.; and Nadelson, Jeffrey, 3,661,910.
 Houlihan, William J., 3,663,536.
 Houlihan, William J.; and Manning, Robert E., 3,671,533.
 Houlihan, William J.; and Manning, Robert E., 3,671,534.
 Houlihan, William J., 3,674,882.
 Houlihan, William J., 3,678,111.
 Houlihan, William J.; and Manning, Robert E., 3,683,085.
 Houlihan, William J.; and Manning, Robert E., 3,686,207.
 Kathawala, Faizulla G., 3,678,166.
 Kornblum, Saul S., 3,632,739.
 Manning, Robert E., 3,635,995.
 Manning, Robert E., 3,644,343.
 Manning, Robert E., 3,652,577.
 Manning, Robert E., 3,659,016.
 Manning, Robert E., 3,660,418.
 Manning, Robert E., 3,671,526.
 Manning, Robert E., 3,686,309.
 Ott, Hans, 3,642,791.
 Sandquist, Alvin V.; and Becker, Floyd Walter, to Becker Drilling (Alberta) Ltd. Joint for double-walled drill pipe. 3,638,970, 2-1-72, Cl. 285-24.
 Sandquist, Alvin V., to Becker Drills Limited. Apparatus for recovering a drill stem. 3,638,989, 2-1-72, Cl. 294-86.24.
 Sandri, Joseph M.: See—
 Youngs, Roger W.; and Sandri, Joseph M., 3,660,073.
 Sandrone, Bruno: See—
 Ricciardi, Giuseppe; and Sandrone, Bruno, 3,646,268.
 Sandrud, Torsten: See—
 Gustafson, Manfred Wallace; and Sandrud, Torsten, 3,673,657.
 Sands, Arthur E., to United States of America, Atomic Energy Commission. Method for increasing the strength of carbon foam. 3,635,676, 1-18-72, Cl. 23-209.4.
 Sands, Asa D. Safety valve. 3,683,957, 8-15-72, Cl. 137-460.000.
 Sands, John L.: See—
 Thomas, Robert M.; and Sands, John L., 3,641,041.
 Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., 3,646,140.
 Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., 3,657,256.
 Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., 3,658,816.
 Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., 3,674,788.
 Sands Measurement Corporation: See—
 Raskin, Seymour H., 3,638,487.
 Sands, Seymour, to Du Pont de Nemours, E. I., and Company. Tufted carpet backsize with polymeric composition. 3,676,280, 7-11-72, Cl. 161-67.000.
 Sandstrom, James P., to Bissett-Berman Corporation, The. Electrolytic cell etching. 3,653,998, 4-4-72, Cl. 156-6.
 Sandstrom, Jan Olof: See—
 Sandstrom, Jan Olof; and Kjellin, Per Gunnar (said Sjellin assor. to said), 3,641,049.
 Sandstrom, Jan Olof; and Kjellin, Per Gunnar, said Sjellin assor. to said Sandstrom, Jan Olof. Imidazoline-2-thiones. 3,641,049, 2-8-72, Cl. 260-309.6.
 Sandstrom, Stig: See—
 Hampp, Wilhelm; and Sandstrom, Stig, 3,689,127.
 Sandstrom, Unto; Abramson, Nils; Sjolin, Ulf; Murray, Henrik; and Colding, Bertil. Device for controlling the frequency of a laser beam. 3,662,279, 5-9-72, Cl. 331-94.5.
 Sandusky, Bernard J., to Ford Motor Company. Rocker arm assembly including fulcrum mounted lubricant deflector. 3,667,434, 6-6-72, Cl. 123-90.350.
 Sandusky, Charles F.; and Susor, William C., to Reliance Electric and Engineering Company, The. Batch weighing with non-cumulative digital cutoff. 3,662,846, 5-16-72, Cl. 177-70.
 Sandvikens Jernverks Aktiebolag: See—
 Alfredsson, Stig Allan Junior, 3,666,080.
 Bergqvist, Mats Soren; Kallstrom, Olof Krister; Lagerberg, Per Goran Olof; and Okvist, Nils Axel Gunnar, 3,664,825.
 Carlen, Jan-Christer Henric Ove; and Bergqvist, Claes Bertil, 3,672,877.
 Edsmar, Kurt G., 3,667,096.
 Edstrom, John Olof; Innerman, Sven Eric; Berg, Bengt Henrik; and Mills, Brian Edward, 3,690,850.
 Egnell, Lennart Oskar, 3,694,271.
 Faber, Kurt H. A. E.; and Norgen, Lars E., 3,697,187.
 Jansson, Lars Olov Lennart; and Ljungstrom, Lars Gosta, 3,693,240.
 Johansson, Ernst Lennart; Lumen, Karl Lennart Gosta; and Lundstrom, Hans Per Olof, 3,645,570.
 Karlsson, Bengt Sigvard, 3,667,584.
 Lofberg, Jan Anders Sten; and Davidson, Per, 3,682,435.
 Lundstrom, Hans Per Olof; and Liljekvist, Bernt Soren, 3,666,321.
 Silfverlin, Ade William, 3,668,049.
 Sandvoss, Werner E.: See—
 Bruce, Harold William; and Sandvoss, Werner E., 3,661,759.
 Sandwiche (Glasgow) Limited: See—
 McMeekin, James Stark; and Galloway, James Wilson, 3,645,197.
 Sanechika, Noriaki: See—
 Mori, Ryoichi; Tajima, Hiroaki; Tsuji, Yoshio; and Sanechika, Noriaki, 3,681,616.

- Sanera, Arthur E., to Motorola, Inc. Production of fine single lines and of discrete closely spaced fine lines. 3,640,197, 2-8-72, Cl. 95-12.
 Sanford, Douglas C., to Honeywell Inc. Single conductor arrangement for powering and triggering flash lamps. 3,648,105, 3-7-72, Cl. 315-237.
 Sanford, Emil Ed., to Monsanto Company. Reflex type electron multiplier. 3,693,004, 9-19-72, Cl. 313-103.000.
 Sanford, Lloyd C., to Ittek Corporation. Sensitometer apparatus. 3,698,294, 10-17-72, Cl. 95-1.000.
 Sanford, Lloyd Clifford, to Ittek Corporation. Sensitometer light source apparatus. 3,677,150, 7-18-72, Cl. 95-10.00r.
 Sanford, Norman R., to Bendix Corporation, The. Electrical apparatus and gaging device using same. 3,665,506, 5-23-72, Cl. 324-103.00p.
 Sanford Research Company: See—
 Taylor, Guy A., 3,659,953.
 Taylor, Guy A., 3,707,241.
 Sanford, Robert A.: See—
 Matloff, Jack M.; and Sanford, Robert A., 3,692,648.
 Sanford, Robert A., to Meditech Energy and Environmental Corporation. Chromatic temperature indicator. 3,633,425, 1-11-72, Cl. 73-356.
 Sanford, Robert A.; Johnson, Robert Reiner; and Summers, Thomas Wade, to Brown and Williamson Tobacco Corporation. Cigarette with modified paper wrapper. 3,667,479, 6-6-72, Cl. 131-15.000.
 Sanford, Robert A.; Mooi, John; and Rogers, Edward S., to Sinclair Research, Inc. Extruded alumina catalyst support and the preparation thereof. 3,679,605, 7-25-72, Cl. 252-463.000.
 Sangamo Electric Company: See—
 Becker, Dale F., 3,646,539.
 Blase, Emil F., 3,670,210.
 Boggs, Albert, 3,646,464.
 Carney, Murray C.; and Speicher, Ellis, III, 3,667,700.
 Eggleston, Donald A.; and Samuel, Trevor N., 3,700,839.
 Findeisen, Heinz H.; Kallmeyer, James D.; Sokol David G.; Stein, James H.; Thomas, Thomas R.; and Bowers, Jack R., 3,676,854.
 Marsh, Norman F.; and Struck, Karl W., 3,643,063.
 McDonald, Jackie F.; and Midden, William E., 3,689,809.
 Willy, John Robert; and Blase, Emil F., 3,688,162.
 Sanger, David M.: See—
 Toepfen, Thurston H.; and Sanger, David M., 3,681,732.
 Sanger, Richard B.: See—
 Bunch, Raymond S.; and Sanger, Richard B., 3,648,205.
 Sangiolo, Thomas L.: See—
 Malcolm, Ronald D.; Phelan, William J.; and Sangiolo, Thomas L., 3,698,007.
 Sangouard, Paul: See—
 Meyer, Charles; Maison, Francois; and Sangouard, Paul, 3,651,513.
 Sangster, Arlon G.: See—
 McNamara, Thomas J.; and Sangster, Arlon G., 3,675,100.
 Sangster, Arlon G., to Jamesburg Corporation, mesne. Photoelectric tape reader having read head disposed above a line joining the topmost points of two drive sprockets. 3,691,372, 9-12-72, Cl. 250-219.00d.
 Sangster, Frederik L. J., to U.S. Philips Corporation. Delay device. 3,666,972, 5-30-72, Cl. 307-293.
 Sangster, Frederik Leonard Johan, to U.S. Philips Corporation. Charge amplifier for a bucket brigade capacitor store. 3,671,771, 6-20-72, Cl. 307-293.000.
 Sanin, Pafnuty Ivanovich: See—
 Bagry, Evgeny Ignatievich; and Sanin, Pafnuty Ivanovich, 3,637,876.
 Sanitary Controls, Inc.: See—
 Bausenbach, Arthur E.; and Palopoli, Frank, 3,695,175.
 Palopoli, Frank; and Palopoli, Salvatore, 3,662,680.
 Sanitary Scale Company: See—
 Karp, Edward C., 3,684,349.
 Sanjean, John: See—
 Cahoy, Roger P.; and Sanjean, John, 3,694,483.
 Sanjo, Sadao; Yamada Hiroshi; and Gono, Yoshio. Textile-forwarding units with pressure rollers operable jointly and individually. 3,701,608, 10-31-72, Cl. 226-155.000.
 Sankary, Morris: See—
 Stevens, Stephen S., 3,655,600.
 Sanken Electric Co., Ltd.: See—
 Yamachi, Yukio; Fujii, Hirohiko; Yamato-Machi, Kita; Kosuge, Hiroshi; and Morita, Koichi, 3,684,949.
 Sankey, Edward L.: See—
 Link, Edwin A.; and Sankey, Edward L., 3,686,604.
 Sanko Chemical Co., Ltd.: See—
 Saito, Toranosuke, 3,702,878.
 Sanko Engineering Company, Limited: See—
 Mizuno, Shuzo, 3,667,498.
 Sankus, Joseph G.: See—
 Amidon, Alan B.; Sankus, Joseph G.; Petruzzella, Nicholas L.; and Ewing, Joan R., 3,664,834.
 Sankyo Company, Limited: See—
 Ishibashi, Keijiro; Okaniwa, Tokio; Hattori, Atsushi; and Arai, Masatoshi, 3,702,805.
 Iwai, Issei; Kishida, Yukichi; and Iwashige, Tadairo, 3,700,688.
 Iwai, Issei; Kishida, Yukichi; Hirooka, Tetsuo; and Nakamura, Norio, 3,687,968.
 Jojima, Teruomi, 3,652,257.
 Kishida, Yukichi; Terada, Atsuke; Takagi, Hiromu; and Kamioka, Toshiharu, 3,644,531.
 Kishida, Yukichi; Soma, Nobuo; Nakazawa, Junichi; Sato, Yoshio; Matsuda, Hidebumi; Terada, Atsuke; Watanabe, Taiichiro; Sugimura, Yukio; Miyamura, Toshihide; Kaneko, Masanao; and Watatani, Mitsuo, 3,704,294.
 Kobayashi, Goro; Sugawara, Shinichi; and Nagawa, Masatoshi, 3,691,199.
 Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; Watanabe, Ichiro; Murayama, Keisuke; and Morimura, Syoji, 3,684,765.
 Matsui, Katsuaki; Kurumada, Tomoyuki; Watanabe, Ichiro; Ohta, Noriyuki; Murayama, Keisuke; and Morimura, Syoji, 3,705,126.
 Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kurumada, Tomoyuki; Watanabe, Ichiro; and Ohta, Noriyuki, 3,640,928.
 Murayama, Keisuke; Morimura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro, 3,645,965.
 Murayama, Keisuke; Toda, Toshimasa; Yamao, Eiko; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; and Watanabe, Ichiro, 3,663,558.
 Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; and Watanabe, Ichiro, 3,692,778.
 Murayama, Keisuke; and Morimura, Syoji, 3,705,166.
 Murayama, Keisuke; Morimura, Syoji; and Toda, Toshimasa, 3,639,409.
 Nakanishi, Kazuo; and Takei, Shuzo, 3,703,441.
 Ohki, Eiji; and Oida, Sadao, 3,657,274.
 Sato, Yasunobu; Takagi, Hiromu; Tanaka, Teruo; and Kamoshida, Katsuo, 3,644,376.
 Sato, Yasunobu; Kobayashi, Yutaka; Takagi, Hiromu; Kumakura, Seiji; Nakayama, Koichi; and Oshima, Takeshi, 3,663,570.
 Shirasaka, Makoto; Tanabe, Katsumi; Naito, Atsushi; and Ieki, Masako, 3,639,212.
 Tachikawa, Ryuji; Takagi, Hiromu; Kamioka, Toshiharu; Fukunaga, Mitsunobu; Kawano, Yoichi; and Miyadera, Tetsuo, 3,696,094.
 Takahashi, Shogo; Yamada, Takayasu; and Okudaira, Hiromi, 3,703,365.
 Torikata, Akio; Kayamori, Hisashi; Mase, Yasuo; Murata, Keijiro; and Maekawa, Reizo, 3,649,458.
 Sankyo Keiryoku Kabushiki Kaisha: See—
 Seto, Hiroshi; Ueda, Mituko; and Segawa, Humio, 3,704,625.
 Sankyo Kogaku Kogyo Kabushiki Kaisha: See—
 Moriyama, Hisao; and Takagi, Katsuhide, 3,643,574.
 Nozawa, Yoshikuni; Ishikawa, Mitsuo; and Kikuchi, Junjiro, 3,669,457.
 Sanlaville, Joseph, to Ugine Kuhlmann. Process for obtaining granular solids by the decomposition of gaseous reactants. 3,632,401, 1-4-72, Cl. 117-100.
 Sanmarco, Miguel E.: See—
 Philips, Charles M.; and Sanmarco, Miguel E., 3,678,922.
 Sanne, Walter: See—
 Fuerst, Ernst; Adam, Karl; Hoffmann, Herwig; Pilch, Kurt; Winderl, Siegfried; and Sanne, Walter, 3,649,627.
 Zirker, Guenter; Sanne, Walter; Pilch, Kurt; and Schulze, Gerhard, 3,695,841.
 Sanne, Walter; Koenig, Karl-Heinz; Pommer, Ernst-Heinrich; and Stummeyer, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Method of controlling fungi. 3,686,399, 8-22-72, Cl. 424-248.000.
 Sanner, Axel: See—
 Krauch, Carl Heinrich; and Sanner, Axel, 3,640,753.
 Sanner, Gary L.; and Hebel, Charles B., to Burroughs Corporation. Terminal message monitor. 3,701,971, 10-31-72, Cl. 340-172.500.
 Sanno, Yasushi: See—
 Fujino, Masahiko; Hatanaka, Chitoshi; Nishimura, Osamu; and Sanno, Yasushi, 3,651,039.
 Sannomiya, Isao: See—
 Sugimoto, Yoshitaka; Sannomiya, Isao; and Noumi, Kazunobu, 3,677,694.
 Sano, Chikara: See—
 Yanagi, Masana; Nakamura, Itaru; Ohosugi, Masayuki; Takizawa, Kiyos; Kakinami, Masanori; and Sano, Chikara, 3,658,634.
 Sano, Hideki: See—
 Sato, Yoshinari; Itoh, Hiroshi; Sano, Hideki; and Tanaka, Masao, 3,635,046.
 Sano, Kazuo: See—
 Shimotsuna, Teruo; Mori, Toshihiro; Sano, Kazuo; and Ando, Seigo, 3,635,085.

- Shimotsuma, Teruo; Mori, Toshihiro; and Sano, Kazuo, 3,644,667.
 Sano, Kazuya: *See—*
 Ohkubo Kinji; Hayashi, Katsumi; and Sano, Kazuya, 3,676,124.
 Oishi, Yasushi; Yoshida, Yoshinobu; and Sano, Kazuya, 3,642,485.
 Watanabe, Shigeru; Yasuda, Yukio; and Sano, Kazuya, 3,667,953.
 Sano, Kazuya; Yokota, Yukio; Oishi, Yasushi; and Nakazyoo, Kiyoshi, to Fuji Photo Film Co., Ltd. Color photographic silver halide light-sensitive materials containing p-amindienzoil acetanilide color couplers. 3,649,276, 3-14-72, Cl. 96-55.
 Sano, Keizo; Watanabe, Taigi; Tanaka, Michihiko; Ichikawa, Yoshimitsu; Kato, Koichi; and Matsuura, Hirokichi, to Toray Industries, Inc. Polyester filaments having an improved water-absorbing property. 3,682,846, 8-8-72, Cl. 260-2.50n.
 Sano, Kenji: *See—*
 Murakami, Masuo; Iwanami, Masaru; Kubo, Kazuo; Sano, Kenji; Kochiya, Masahiro; and Arima, Hideki, 3,665,037.
 Sano, Konosuke: *See—*
 Shio, Isamu; Sano, Konosuke; and Nakamori, Shigeru, 3,707,441.
 Sano, Ryujiro: *See—*
 Chibata, Ichiro; Tosa, Tetsuya; Sano, Ryujiro; and Ando, Katsuko, 3,652,402.
 Sano, Takezo: *See—*
 Nakaguchi, Kohei; Nishikida, Tomozumi; Kawasumi, Shohachi; Maemoto, Kenichi; Sano, Takezo; Fujii, Yoshikazu; Harada, Koichi; and Ueda, Keijyu, 3,669,945.
 Sano, Toshio: *See—*
 Iida, Eiichi; Komatsubara, Tsuneo; Ueno, Sadao; Takeuchi, Soichiro; Matui, Etuo; and Sano, Toshio, 3,654,248.
 Sano, Yoichi: *See—*
 Sato, Chosei; Furukawa, Akihisa; and Sano, Yoichi, 3,649,185.
 Sano, Yoshimoto: *See—*
 Hata, Toju; Matsumae, Akihiro; Abe, Kimihiko; Sano, Yoshimoto; Ohtani, Mariko; and Ohmura, Satoshi, 3,650,904.
 Sanrak Ocean Co., Ltd.: *See—*
 Ikeda, Shigeho; Ishizaki, Ayaaki; Hirose, Yoshio; and Shiro, Teruo, 3,674,639.
 Kono, Kageaki; Oki, Toshikazu; Kitai, Atsuo; and Ozaki, Asaichiro, 3,663,370.
 SanRoy Development Co., Inc.: *See—*
 Higuera, Robert E., 3,658,096.
 Sans, Claude M.; Leynaert, Jacky; and Meauze, Georges D., to Office National d'Etudes et de Recherches Aérospatiales (O.N.E.R.A.). Dynamic forced air intakes for vehicles. 3,652,036, 3-28-72, Cl. 244-53.
 Sansbury, John R.: *See—*
 Jacobson, Stanley I.; and Sansbury, John R., 3,674,227.
 Sansbury, Larry: *See—*
 Beuk, Ljubomir; Dogadko, Peter; and Sansbury, Larry, 3,669,086.
 Sanseiyusoki Co., Ltd.: *See—*
 Kojima, Masayoshi, 3,633,904.
 Kojima, Masayoshi, 3,635,185.
 Sansevero, Vincent J., Jr.: *See—*
 De Mattia, Victor A., Jr.; and Sansevero, Vincent J., Jr., 3,667,216.
 Sansom, John Norman: *See—*
 Smith, Raymond Anthony; and Sansom, John Norman, 3,652,210.
 Sansom, Keith Geoffrey: *See—*
 Neumann, Barbara Susan; and Sansom, Keith Geoffrey, 3,654,176.
 Sansom, Raymond E.: *See—*
 Finley, Robert L.; and Sansom, Raymond E., 3,643,969.
 Sansom, Richard E., Jr. Air navigation computer for windage problems. 3,654,436, 4-4-72, Cl. 235-78.
 Sanstrom, Grant H. Belt-pulley transmission. 3,636,784, 1-25-72, Cl. 74-217.
 Sansui Electric Co., Ltd.: *See—*
 Kikuchi, Takeo; and Hashino, Hisaaki, 3,669,215.
 Sugiura, Naokatsu, 3,702,908.
 Takahashi, Susumu, 3,678,297.
 Sansum, Robert David, to Gerrard Industries Limited. Package starting tools. 3,690,350, 9-12-72, Cl. 140-93.200.
 Santa Barbara Research Center: *See—*
 Buller, Joseph S.; Nagy, Michael J.; and Peterson, Eugene W., 3,640,091.
 Santa Cruz Aggregates Co.: *See—*
 Bentley, George L.; and Roe, Jonas L., 3,684,098.
 Santa Fe International Corporation: *See—*
 Christopher, John, 3,697,720.
 Doughty, Samuel Clifford, 3,680,644.
 Lloyd, Samuel H., 3,677,352.
 Lloyd, Samuel H., 3,704,596.
 Lloyd, Samuel H., III, 3,685,305.
 Santa Rita Technology, Inc.: *See—*
 Stewart, John L., 3,683,113.
 Santa Ynez Research Farm: *See—*
 Algeo, John W., 3,667,961.
 Santa-Maria, Enrique: *See—*
 Denel, Jean; Krebs, Jean-Pierre; and Santa-Maria, Enrique, 3,686,458.
 Paris, Jean Denel; Maly, Wissous; and Santa-Maria, Enrique, 3,701,906.
 Santacroce, Alfred Michael: *See—*
 Illig, Howard Clayton; Leher, Wilfred Emile, Jr.; Parker, James Daniel, III; Santacroce, Alfred Michael; and Sheridan, James Arthur, 3,698,533.
 Santala, Teuvo, to Texas Instruments, Incorporated. Composite metal cartridge case. 3,659,528, 5-2-72, Cl. 102-43.
 Santala, Teuvo J.; and Hirsbrunner, Hans G., to Texas Instruments, Incorporated. Silver-base alloy for making electrical contracts. 3,701,654, 10-31-72, Cl. 75-173.000.
 Santana, Gilbert L.: *See—*
 Godwin, Guy V.; Santana, Gilbert L.; and Santana, Raymond L., 3,648,413.
 Santana, Raymond L.: *See—*
 Godwin, Guy V.; Santana, Gilbert L.; and Santana, Raymond L., 3,648,413.
 Santangelo, Joseph Germano: *See—*
 Epstein, Martin Eden; Rosenthal, Arnold Joseph; and Santangelo, Joseph Germano, 3,669,934.
 Santangelo, Nicola: *See—*
 Pregaglia, Gianfranco; Agamennone, Marco; Santangelo, Nicola; and Croci, Mauro, 3,637,834.
 Pregaglia, Gianfranco; Agamennone, Marco; Santangelo, Nicola; and Matzuzi, Guglielmo, 3,660,480.
 Santangelo, Nicola; Battiston, Giancarlo; Pregaglia, Gianfranco; Cavaterra, Enrico; and Croci, Mauro; deceased (by Croci, Angelo; and Biagioni, Margherita, heirs), said Santangelo, Battiston, Pregaglia and Cavaterra assors. to Montecatini Edison S.p.A. Process for the preparation of acetic acid by catalytic oxidation of olefins in gaseous phase. 3,702,868, 11-14-72, Cl. 260-533.00r.
 Santarelli, Sandro. Raceway for beds of hospitals and the like. 3,692,920, 9-19-72, Cl. 174-48.000.
 Santarelli, Vincent. Combination cap and pump for sprayer apparatus. 3,690,516, 9-12-72, Cl. 222-340.000.
 Santeford, Henry S., Jr.; Meier, John G.; and Alger, George R., to Michigan Technological University, Board of Control of. Snow moisture integrator. 3,690,169, 9-12-72, Cl. 73-171.000.
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 Santho, Albert T. Cargo securing apparatus and methods. 3,704,672, 12-5-72, Cl. 105-369.00a.
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 Santiago, Andres; and Santiago, Enrique, to Zeuna-Staerker KG. Apparatus for the detoxification of exhaust gases of internal combustion engines. 3,703,082, 11-21-72, Cl. 60-282.000.
 Santiago, Enrique: *See—*
 Santiago, Andres; and Santiago, Enrique, 3,703,082.
 Santiago, Julio A.: *See—*
 Knutsen, Elliel F.; and Santiago, Julio A., 3,641,676.
 Santianni, Blaise F. Board game apparatus. 3,653,668, 4-4-72, Cl. 273-135.
 Santilli, Arthur A.: *See—*
 Kim, Dong H.; and Santilli, Arthur A., 3,635,975.
 Kim, Dong H.; and Santilli, Arthur A., 3,641,028.
 Kim, Dong H.; and Santilli, Arthur A., 3,649,641.
 Kim, Dong H.; and Santilli, Arthur A., 3,654,204.
 Kim, Dong H.; and Santilli, Arthur A., 3,654,205.
 Kim, Dong H.; and Santilli, Arthur A., 3,703,516.
 Kim, Dong H.; and Santilli, Arthur A., 3,703,517.
 Santilli, Arthur A.; and Kim, Dong H., to American Home Products Corporation. Thieno[2,3-d: 4,5-d']dipyrimidin-4(3H)-ones. 3,635,965, 1-18-72, Cl. 260-247.1.
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 Santilli, James N.: *See—*
 Innis, Robert T.; Berg, Alan J.; and Santilli, James N., 3,707,650.
 Santilli, Vincent J.; Vine, James; and Cotterman, James W. Electrostatic focused electron image device. 3,688,122, 8-29-72, Cl. 250-213.0vt.
 Santimauro, John F.; and Gerson, Herman, to Allied Chemical Corporation. Process for the preparation of N,N'-di-1-anthraquinonylphthalimide. 3,668,225, 6-6-72, Cl. 260-368.000.
 Santini, Aldo: *See—*

- Kemeny, Giulio; Gaboardi, Mario; Santini, Aldo; Testori, Mario; Reinhardt, Paul-Dietrich; Simoleit, Hartmut; and Walter, Ludwig, 3,652,217.
 Santini-Ormeries, Jean: *See—*
 Spenle, Rene, 3,633,910.
 Santirocco, Louis J.; Rose, Duane L.; and Scofield, John W., to United States of America, Commerce, mesne. Reversible, bypassable aperture card reader. 3,672,664, 6-27-72, Cl. 271-3.000.
 Santis, Dean: *See—*
 Wavre, Andre; and Santis, Dean, 3,654,607.
 Santo Iron Works Co., Ltd.: *See—*
 Sando, Yoshikazu; Tsuchihashi, Takashi; and Ishidoshiro, Hiroshi, 3,655,328.
 Santomieri, Louis S. Drip chamber and method. 3,664,339, 5-23-72, Cl. 128-214.
 Santore, David T.: *See—*
 Depositor, Edward L.; Shipley, Robert K.; and Santore, David T., 3,663,175.
 Santos, Charles: *See—*
 Cane, Andy C.; and Santos, Charles, 3,633,907.
 Santos, Gerard R.; and Herring, James M., Jr., to Boothe Airside Services, Inc., mesne. Hydraulic system for a vehicle. 3,674,107, 7-4-72, Cl. 180-79.20r.
 Santosuosso, Robert C. Fishing lure. 3,683,543, 8-15-72, Cl. 43-42.090.
 Santouris, Ioannis A. Apparatus for forming and stacking container lids. 3,650,655, 3-21-72, Cl. 425-289.
 Santovi, George A. Safety reflector device for vehicles. 3,658,408, 4-25-72, Cl. 350-97.
 Santry, George J., to Corning Glass Works. Structural grid for slab facing materials. 3,651,611, 3-28-72, Cl. 52-379.
 Santry, George J.; and Wecenske, Harold R., to Corning Glass Works. Gripping and sealing system for slab facing materials. 3,672,107, 6-27-72, Cl. 52-235.000.
 Santucci, Kenneth E. Support structure. 3,637,177, 1-25-72, Cl. 248-74.
 Santucci, Vincent J. Apparatus for treating foodstuff. 3,658,072, 4-25-72, Cl. 134-65.
 Santurri, Pasco R.; and Rother, John H. Laminable film having an integral glutinous ground coating. 3,690,920, 9-12-72, Cl. 117-45.000.
 Santway, Robert W.: *See—*
 Alwitt, Robert S.; and Santway, Robert W., 3,697,822.
 Sanwa Tetsuki Kogyo Kabushiki Kaisha: *See—*
 Hasumi, Kingo, 3,661,179.
 Sanyo Chemical Industries, Ltd.: *See—*
 Fujimoto, Takehiko; Nishimura, Mikio; and Takigawa, Shoji, 3,651,029.
 Kato, Tatsuya; Chikatsu, Nagoya; Suwada, Ataru; and Ohno, Satoyoshi, 3,658,766.
 Shibahara, Yasuo; Shimoyama, Yasohachi; and Otaki, Makoto, 3,692,877.
 Sanyo Electric Co., Ltd.: *See—*
 Iemura, Toshio; Doi, Masaru; and Shimizu, Yoshiaki, 3,674,944.
 Mashima, Fumio, 3,699,247.
 Miyake, Yuji; Kashiara, Hideo; Takahashi, Kazuyoshi; Yamamoto, Takamitsu; and Mizukawa, Ziyun, 3,653,189.
 Naito, Fumio; Kudo, Toshiyuki; and Kubosaki, Masanobu, 3,700,596.
 Narita, Fujiaki, 3,678,186.
 Nishimura, Satoshi, 3,634,873.
 Tada, Kiyoyuki, 3,662,346.
 Takemasa, Kazuo; and Komada, Hitoshi, 3,675,438.
 Tokunaga, Kenki, 3,642,226.
 Yamaguchi, Hiroshi, 3,646,544.
 Yasuoka, Yoshio; and Shirakami, Yoshiaki, 3,678,238.
 Yasuoka, Yoshio, 3,692,968.
 Sanyo Electric Works Ltd.: *See—*
 Miwa, Keiji, 3,655,461.
 Sanz, Manuel, to Micromedic Systems, Inc., mesne. Metering cum dispensing apparatus. 3,669,319, 6-13-72, Cl. 222-309.
 Sanz, Manuel Claude; and Weber, Rene, to Micromedic Systems, Inc. Distributor pump. 3,684,409, 8-15-72, Cl. 417-519.000.
 Sanz, Manuel Claude, to Micromedic Systems, Inc. Coagulumeter capsule. 3,692,487, 9-19-72, Cl. 23-253.00r.
 Sanz, Manuel Claude, to Micromedic Systems, Inc. Coagulumeter. 3,704,099, 11-28-72, Cl. 23-253.00r.
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 Saotome, Shigeo: *See—*
 Ohkubo, Hiroyuki; and Saotome, Shigeo, 3,688,541.
 Sapaly, Jean: *See—*
 Leipp, Emile A.; Castellengo, Michele M. T.; Lienard, Jean-Sylvain R.; Quinio, Jacques L.; Sapaly, Jean; and Teil, Daniel G., 3,632,887.
 Saparov, Valentin Vasilievich: *See—*
 Juzvuk, Diomid Ilich; and Saparov, Valentin Vasilievich, 3,669,889.
 Sapers, Ira, to Arkansas Company, Inc. Cycloalkanone or alkyl aryl ketone assisting cationic dye and aromatic polyamide dyeing therewith. 3,674,420, 7-4-72, Cl. 8-173.000.
 Sapino, Chester, Jr.; and Sleezer, Paul David, to Bristol-Myers Company. Process for the preparation of (4-pyridylthio) acetic acid. 3,644,377, 2-22-72, Cl. 260-294.8.
 Sapir, Said, to International Telephone and Telegraph Corporation. Spark generator and components therefor. 3,662,185, 5-9-72, Cl. 307-106.
 Sapkus, Jurgis: *See—*
 Lewis, J. Stephen; Collins, Harold B.; Sapkus, Jurgis; and Villanueva, Juanito O., 3,693,288.
 Lewis, J. Stephen; Sapkus, Jurgis; and Villasana, Armando P., 3,696,553.
 Lewis, J. Stephen; Sapkus, Jurgis; Antell, Earl O.; and Robson, George E., 3,699,715.
 Sapkus, Jurgis; and Bafza, Armando M., to Mattel, Inc. Extensible quick configuration-changing toy. 3,688,435, 9-5-72, Cl. 46-119.000.
 Sapkus, Jurgis, to Mattel, Inc. Doll with blinking eyelids moved by a pendulum. 3,699,707, 10-24-72, Cl. 46-166.000.
 Sapkus, Jurgis; Lewis, J. Stephen; and Sporrang, Robert N., to Mattel, Inc. Appendage animating means for figure toys. 3,699,713, 10-24-72, Cl. 46-119.000.
 Sapolin Paints, Inc.: *See—*
 Ribbecke, Lawrence F., 3,651,783.
 Saporiti, Elio: *See—*
 Tirelli, Paolo; and Saporiti, Elio, 3,701,366.
 Saporito, Anthony: *See—*
 Reimus, Richard G.; and Saporito, Anthony, 3,632,353.
 Sapunov, Georgy Konstantinovich: *See—*
 Kostin, Konstantin Fedorovich; Sapunov, Georgy Konstantinovich; Svirin, Alvan Afanasievich; Strakhov, Valery Ivanovich; and Shur, Grigory Isifovich, 3,648,091.
 Sapy, Jacques; and Legris, Andre, to Legris, Ste. Releasable coupling for fluid carrying tubes. 3,653,689, 4-4-72, Cl. 285-113.
 Saraber, Petrus Gerardus, to Gizeh-Werk G.m.b.H. Cigarette-making appliance. 3,699,975, 10-24-72, Cl. 131-70.000.
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 Sarafa, Hani N.: *See—*
 Bohan, William J.; and Sarafa, Hani N., 3,665,778.
 Sarafidis, Christos, to Du Pont de Nemours, E. I., and Company. Cobalt salt-phosphine-organoaluminum catalysts for preparing 1,4-dienes. 3,647,901, 3-7-72, Cl. 260-680.
 Sarah, Thomas F., to Shakespeare of Arkansas, Inc. Selectively manual or automatic shift control for a two speed drive in a fishing reel. 3,675,502, 7-11-72, Cl. 74-369.000.
 Sarai, Hiroshi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Vented fuel tank. 3,643,690, 2-22-72, Cl. 137-587.
 Saralidze, Anton Lavrentievich; and Efremidi, Anatoly Lazarevich. High-voltage semiconductor rectifier unit. 3,676,762, 7-11-72, Cl. 321-8.00r.
 Sarallo, John F.; and Shetzley, George W., to Motorola, Inc. Automatic encoder-decoder circuit for radio communications unit. 3,651,407, 3-21-72, Cl. 325-18.
 Saran, Herbert; and Budnowski, Manfred, to Henkel & Cie G.m.b.H. Molding materials based on epoxide compounds. 3,655,624, 4-11-72, Cl. 260-77.5.
 Saran, Herbert; and Budnowski, Manfred, to Henkel & Cie G.m.b.H. Molding materials based on epoxide compounds and process. 3,704,281, 11-28-72, Cl. 260-77.5nc.
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 Sarati, Luigi, to Societa Italiana Telecomunicazioni Siemens S.p.A. Radio telecommunication system with automatic replacement of defective channels. 3,681,694, 8-1-72, Cl. 325-2.000.
 Sarazen, John C.: *See—*
 Pierini, John M.; Sarazen, John C.; and Larsen, Reidar G., 3,689,865.
 Sarbach, Ronald A.; and Porter, Richard E., to Abex Corporation. Railway car retarder control with timed brake application. 3,633,026, 1-4-72, Cl. 246-182.
 Sarbach, Ronald A., to Westinghouse Air Brake Company. Brake control system utilizing fluidic logic elements. 3,653,728, 4-4-72, Cl. 303-22.
 Sarbach, Ronald A., to Westinghouse Air Brake Company. Apparatus for controlling car speed at coupling. 3,654,456, 4-4-72, Cl. 246-182.
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 Sarbacher, Robert I.: *See—*
 Bogue, John C.; and Sarbacher, Robert I., 3,666,961.
 Bogue, John C.; and Sarbacher, Robert I., 3,666,962.
 Bogue, John C.; and Sarbacher, Robert I., 3,693,068.
 Bogue, John C.; and Sarbacher, Robert I., 3,707,405.

- Sarbacher, Robert I., to Bogue, John S. Self powered refrigerated disposable container. 3,664,144, 5-23-72, Cl. 62-3.
- Sardinas, Joseph L., to Pfizer, Inc. Copper ions in carbomycin A fermentation. 3,658,652, 4-25-72, Cl. 195-80.
- Sardisco, John B.: *See—*
Drechsel, Erhart K.; Sardisco, John B.; and Stewart, James R., Jr., 3,697,246.
- Sarem, Amir M.: *See—*
Dvoracek, Louis M.; and Sarem, Amir M., 3,668,111.
- Sarem, Amir M., to Union Oil Company of California. Acrylic acid-acrylamide-diacetone acrylamide terpolymer. 3,663,490, 5-16-72, Cl. 260-29.6.
- Sarem, Amir M.; and Holm, Leroy W., to Union Oil Company of California. Process for recovering oil from heterogeneous reservoirs. 3,704,990, 12-5-72, Cl. 166-273.000.
- Sarett, Lewis H.: *See—*
Ruyle, William V.; Sarett, Lewis H.; and Matzuk, Alexander R., 3,674,870.
- Ruyle, William V.; Sarett, Lewis H.; and Matzuk, Alexander R., 3,681,445.
- Wagner, Arthur F.; Wittreich, Paul E.; and Sarett, Lewis H., 3,666,755.
- Sarett, Lewis H.; and Ruyle, William V., to Merck & Co., Inc. Thiazolylsulfonic acids. 3,676,451, 7-11-72, Cl. 260-302.00r.
- Sarett, Lewis H.; Hoff, Dale R.; and Henry, David W. 2-Aryl-5(or 4-) nitroimidazoles. 3,682,949, 8-8-72, Cl. 260-309.000.
- Sarett, Lewis H.; and Hannah, John. 5-Aryl and arylphenyl sulfonic acids in treating inflammation. 3,691,185, 9-12-72, Cl. 424-303.000.
- Sarett, Lewis H.; and Ruyle, William V. Derivatives of 2-alkanoyloxy and 2-hydroxy-3-phenylbenzoic acid. 3,692,821, 9-19-72, Cl. 260-473.00r.
- Saretzky, Simon. Permanent magnet motor having pole shoe rotor with laminations to retard eddy currents. 3,689,787, 9-5-72, Cl. 310-266.000.
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Verot, Jean-Louis; and Sarfati, Rene, 3,657,012.
- Sarfaty, Gordon A.; and Tregear, Geoffrey W., to Cancer Institute Board. Graft copolymers. 3,639,516, 2-1-72, Cl. 260-818.
- Sarff, Forest M.; and Birch, Silas B., Jr. Power-driven wire tying mechanism. 3,677,308, 7-18-72, Cl. 140-93.600.
- Sarge, Carmen R.: *See—*
Patil, Arvind S.; Veltman, Preston L.; Loder, Edwin R.; Sabatelli, Philip M.; and Sarge, Carmen R., 3,682,190.
- Sabatelli, Philip M.; Sarge, Carmen R.; Loder, Edwin R.; and Brungs, Charles A., 3,644,650.
- Sabatelli, Philip M.; Loder, Edwin R.; Brungs, Charles A.; and Sarge, Carmen R., 3,671,440.
- Sargeant, Archibald, to Wingard Limited. Inertia reels for safety belts. 3,664,600, 5-23-72, Cl. 242-107.4.
- Sargeant, Blaine W.: *See—*
Bailey, Robert C.; Estes, Harry A.; James, Glen S.; Klug, James R.; Montillon, Henry A.; Myring, Verne E.; Robertson, Orville H.; Sargeant, Blaine W.; and Sorensen, Neal E., 3,679,200.
- Sargeant, Jane L. Easel. 3,680,497, 8-1-72, Cl. 108-60.000.
- Sargeant, Ralph G. Apparatus for treating liquids with high frequency electrical energy. 3,641,302, 2-8-72, Cl. 219-10.65.
- Sargent & Company: *See—*
Allen, Irving, 3,704,620.
- Arnold, Douglas; and Faulconer, Harry A. (said Arnold assor to), 3,641,652.
- Filia, George J., 3,673,848.
- Ohno, Richard J., 3,675,359.
- Sargent, Donald E.: *See—*
Stackman, Robert W.; and Sargent, Donald E., 3,661,504.
- Sargent, Donald E., to Radiation Research Corporation. Polymerization of 2-pyrrolidone in the presence of carbonyl sulfide. 3,647,764, 3-7-72, Cl. 260-78.
- Sargent, Ellsworth B.: *See—*
Rochon, Donald J.; and Sargent, Ellsworth B., 3,648,850.
- Sargent Industries, Inc.: *See—*
Patterson, Donald S., 3,646,827.
- Patterson, Donald S., 3,678,776.
- Sargent Industries, Inc., mesne: *See—*
Chacko, Joseph, 3,702,623.
- Sargent, Jerald P., to Minnesota Mining and Manufacturing Company. Electrostatically-charged fluidized bed apparatus. 3,670,699, 6-20-72, Cl. 118-629.000.
- Sargent, Michael R.: *See—*
Privott, Wilbur J., Jr.; and Sargent, Michael R., 3,692,089.
- Sargent, Peter B.: *See—*
Barkdoll, Archie E.; and Sargent, Peter B., 3,634,525.
- Sargent, Ray. Anti-pollution apparatus. 3,706,182, 12-19-72, Cl. 55-124.000.
- Sargent, Raymond W., to Simmonds Precision Products, Inc. Flat scale rectilinear indicator. 3,634,764, 1-11-72, Cl. 324-132.
- Sargent, Thomas J. Molded granite. 3,703,433, 11-21-72, Cl. 161-162.000.
- Sargent-Welch Scientific Company: *See—*
Rosencranz, Robert, 3,704,950.
- Shapiro, Ascher H., 3,644,051.
- Trcka, Ronald; and Sherrick, Paul H., 3,672,838.
- Sarges, Reinhard. Aminobenzocycloalkae compounds. 3,637,740, 1-25-72, Cl. 260-326.
- Sargrove, John Adolph, to Imperial Tobacco Company (of Great Britain and Ireland) Limited, The. Apparatus for making cigar bunches. 3,703,902, 11-28-72, Cl. 131-22.00a.
- Sarka, Albert J., to Harris-Intertype Corporation. Chemical honing of dies. 3,690,199, 9-12-72, Cl. 76-107.00c.
- Sarkes Tarzian, Inc.: *See—*
Badger, Joe G.; and Valdetaro, Alarico A., 3,689,853.
- Krepps, James Edgar, Jr.; Chamberlain, Meredith K.; and Fisher, Robert D., 3,679,979.
- Tarr, William A., 3,646,393.
- Weigel, Morton L., 3,650,413.
- Sarkisian, Robert. Poster display device. 3,646,696, 3-7-72, Cl. 40-125.
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- Sarkisov, Rafael Tevosovich: *See—*
Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Idayatov, Tofik Kudrat Ogly; Proshian, Nea Eachevna; Sarkisov, Rafael Tevosovich; and Stepanian, Ernest Arakelovich, 3,651,774.
- Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Kamalov, Gennady Nikolaevich; Sarkisov, Rafael Tevosovich; Stepanian, Ernest Arakelovich; and Shakhmaliev, Rustam Makhmud Ogly, 3,656,381.
- Sarkissian, Vahe, to National Semiconductor Corporation. Multiplexing circuit with stage isolation means. 3,638,131, 1-25-72, Cl. 330-30.
- Sarkozi, Lewis P.: *See—*
Muellner, Frank E.; and Sarkozi, Lewis P., 3,679,546.
- Ransohoff, Jackson A.; and Sarkozi, Lewis P., 3,676,675.
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Szabo, Andras I.; and Sarkozi, Miklos, 3,705,365.
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Keilbach, Joseph R.; and Sarli, Vito J., 3,691,769.
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Fagan, Lloyd D.; Hadden, David R., Jr.; Haratz, David; and Sarlo, Lorenz M., 3,646,526.
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- Sarno, Richard L., to Leisure Products, Inc. Boat hoists. 3,697,048, 10-10-72, Cl. 254-148.000.
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Knothe, Erich Emil Karl; and Billin, Eckhard Otto Walter, 3,659,664.
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Knothe, Erich Emil; and Weickhardt, Ludwig, 3,656,567.
- Sartorius-Werke GmbH (und vormals Gottinger Prazisionswaagenfabrik GmbH): *See—*
Weickhardt, Ludwig, 3,661,222.
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Sakazaki, Katsuhiko; and Saruhashi, Shigeru, 3,682,491.
- Saruya, Kichitaro: *See—*
Fukawa, Mitsunosuke; Oishi, Haruo; Saruya, Kichitaro; Nagai, Akira; and Nagai, Yoshitaro, 3,669,766.
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Otsuka, Tokio; Sasabe, Shozo; and Nakagawa, Hiroyuki, 3,668,219.
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Kobayashi, Hidehiko; Sasaguri, Kiichiro; Komoto, Hiroshi; and Kawashima, Sukuo, 3,654,225.
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Nomura, Hirokazu; and Sasaki, Akira, 3,668,364.
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Shimizu, Teisuke; Sasaki, Atsuo; and Nagaki, Shigeo, 3,650,666.
- Sasaki, Hideaki: *See—*
Hojo, Toki; Sasaki, Toshio; Motojima, Hiroshi; and Sasaki, Hideaki, 3,681,171.
- Sasaki, Hiromi: *See—*
Hayashi, Yoshiki; Sasaki, Hiromi; and Matsumura, Toichi, 3,677,816.
- Sasaki, Hiromu: *See—*
Kurokawa, Eisuke; Matsuo, Yoshihiro; and Sasaki, Hiromu, 3,651,308.
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Nishizawa, Jun-ichi; Sasaki, Ichimon; Ishida, Katsuhiko; Tauchi, Syoji; Ishimura, Takeshi; Seki, Takeo; and Kozuma, Noboru, 3,634,849.
- Sasaki, Isao: *See—*
Takeishi, Yoshiyuki; Hara, Hisashi; Sato, Tai; and Sasaki, Isao, 3,636,421.
- Sasaki, Juntaro: *See—*
Wada, Shigeru; Oi, Hidesaburo; Matsuzawa, Norio; Nishimura, Hiroshi; and Sasaki, Juntaro, 3,701,763.
- Sasaki, Katuyoshi: *See—*
Senoo, Saburo; Fukuoka, Yohei; and Sasaki, Katuyoshi, 3,674,851.
- Sasaki, Kenichi: *See—*
Harada, Motoo; and Sasaki, Kenichi, 3,677,238.
- Sasaki, Kenkichi: *See—*
Hoshino, Masahiro; and Sasaki, Kenkichi, 3,695,044.
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Kawamatsu, Yutaka; Sasaki, Marekichi; and Morimoto, Hiroshi, 3,646,222.
- Sasaki, Minoru: *See—*
Sadakata, Kazuo; Sasaki, Minoru; Hirose, Masahiro; Nakamura, Yasuo; Mikida, Yukio; Ito, Kazuo; and Kimura, Kuninobu, 3,639,513.
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Takashashi, Yoshinori; Sasaki, Rokuro; Watanabe, Kikuo; and Takizawa, Masau, 3,685,618.
- Sasaki, Ryoichi: *See—*
Hachisu, Mikio; Nijima, Eisuke; Sasaki, Ryoichi; Hataya, Humio; and Fukui, Yutaka, 3,658,516.
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Suzuki, Kenzo; and Sasaki, Seiya, 3,640,700.
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Suzuki, Saburo; Isono, Kiyoshi; Nagatsu, Junsaku; Akashiba, Takeo; and Sasaki, Shigeki, 3,700,655.
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Kiyasu, Zen'iti; Kawashima, Masao; Sasaki, Shunroku; Mineshima, Yukihiko; and Kurita, Shyoichi, 3,699,567.
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Takasu, Itaru; Sasaki, Takaaki; and Yamamoto, Akira, 3,703,541.
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Yoshimoto, Toshio; Kaneko, Seiya; Sasaki, Takashi; Narumiya, Tsuneaki; Yoshii, Hiroshi; and Takamatsu, Tetsuya, 3,652,517.
- Sasaki, Takeshi: *See—*
Takahashi, Kazusaburo; Sasaki, Takeshi; Takeuchi, Hisauke; Morita, Keiichi; and Toda, Tadatashi, 3,652,904.
- Sasaki, Tatsuji: *See—*
Henmi, Zenzo; Sasaki, Tatsuji; Matsui, Yuji; Maegawa, Harumi; Sato, Yoshihiro; Gotoh, Tsuneyasu; and Komatsu, Masahiro, 3,686,042.
- Sasaki, Tetsuo: *See—*
Kobayashi, Tetsuji; Sasaki, Tetsuo; Takayanagi, Seiichi; and Sugita, Toru, 3,665,916.
- Sasaki, Toshiharu: *See—*

- Yamaguchi, Isao; Sasaki, Toshiharu; and Nakajima, Yasutaka, 3,683,852.
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Hojo, Toku; Sasaki, Toshio; Motojima, Hiroshi; and Sasaki, Hideaki, 3,681,171.
- Sasaki, Toshiyuki: See—
Shimada, Hiroshi; Nagai, Mitsuru; Ohfuji, Mitsuo; and Sasaki, Toshiyuki, 3,690,305.
- Sasaki, Yutaka: See—
Yoshino, Takachika; Saito, Shigeru; Sasaki, Yutaka; and Nakamura, Yoshimi, 3,657,155.
- Yoshino, Takachika; Saito, Shigeru; Ishikura, Jun; Sasaki, Yutaka; and Sobukawa, Masukuni, 3,668,147.
- Yoshino, Takachika; Saito, Shigeru; Sasaki, Yutaka; and Nakamura, Yoshimi, 3,686,138.
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- Sasame, Takao: See—
Matsuno, Akira; Sasame, Takao; Shimizu, Ikuzo; Kizu, Humio; and Kagawa, Hiroyuki, 3,660,173.
- Sasebo Heavy Industries, Co., Ltd.: See—
Morita, Schichiro, 3,704,613.
- Morita, Schichiro; Shimazu, Hiroshi; Saito, Tsutomu; Nakamura, Hiroshi; and Maeda, Torata, 3,647,149.
- Sasgawa, Kenji: See—
Kondo, Iwao; Taoka, Kenji; and Sasgawa, Kenji, 3,705,286.
- Sasgen, Peter J., to Power Parts Company. Dipstick assembly. 3,662,470, 5-16-72, Cl. 33-126.7.
- Sashihara, Thomas Fujio: See—
Hammer, Clarence Frederick; and Sashihara, Thomas Fujio, 3,657,202.
- Sashino, Shozzo: See—
Oishi, Asao; and Sashino, Shozzo, 3,669,560.
- Saskai, Toshio: See—
Yasui, Koichi; Yamamoto, Kazuo; Itami, Kazuo; Fujisawa, Kiyoshi; and Saskai, Toshio, 3,671,279.
- Saskatchewan Government Insurance Office, The: See—
Loos, Edwin; and Caudle, James William, 3,697,101.
- Sass, Allan S.: See—
Garrett, Donald E.; and Sass, Allan S., 3,698,882.
- Sass, Donald J.: See—
Phelps, Jerry A.; and Sass, Donald J., 3,646,931.
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- Sassaman, William O.: See—
Pearson, Charles J.; Robinson, Keith D.; and Sassaman, William O., 3,639,748.
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- Sasse, Klaus: See—
Kampfer, Helmut; von Konig, Anita; Ranz, Erwin; von Rintelen, Harald; Mayer, Dietmar; and Sasse, Klaus, 3,674,479.
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- Ranz, Erwin; Kampfer, Helmut; von Rintelen, Harald; Schutz, Heinz-Dieter; Mayer, Dietmar; and Sasse, Klaus, 3,660,093.
- Scheibitz, Maria; von Konig, Anita; Kampfer, Helmut; Mayer, Dietmar; Sasse, Klaus; Kolb, Gunter; Honig, Hans Ludwig; and Meiser, Werner, 3,690,884.
- Siegel, Edgar; and Sasse, Klaus, 3,666,747.
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- Sasser, Arthur R.: See—
McKissick, Robert T.; Sebastian, Vincent W.; Davis, Ray D.; and Sasser, Arthur R., 3,636,687.
- Sassin, Wolfgang: See—
Doose, Conrad; and Sassin, Wolfgang, 3,686,423.
- Doose, Conrad; and Sassin, Wolfgang, 3,697,665.
- Sassin, Wolfgang, to Kernforschungsanlage Julich, Gesellschaft mit beschränkter Haftung. Duct system for low-temperature fluids and thermally isolated electrical conductors. 3,693,648, 9-26-72, Cl. 137-375.000.
- Sassiver, Martin Leon: See—
Lewis, Benjamin Arthur; Sassiver, Martin Leon; and Shepherd, Robert Gordon, 3,641,015.
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- Sasso, Giovanni: See—
Middelhepek, Simon; and Sasso, Giovanni, 3,669,732.
- Sastri, Aiyaswami S.: See—
Fischbein, Irwin W.; Alexander, Ben H.; and Sastri, Aiyaswami S., 3,682,795.
- Sata, Toshikatsu: See—
Mizutani, Yukio; Yamane, Reiichi; Sata, Toshikatsu; and Izuo, Ryuji, 3,647,086.
- Sata, Toshio: See—
Miyashita, Yoshio; Nishikawa, Katuhiko; and Sata, Toshio, 3,647,425.
- Satake, Chikako: See—
Suekane, Mikio; and Satake, Chikako, 3,681,195.
- Satake, Toshihiko. System for preparing parboiled rough rice. 3,674,514, 7-4-72, Cl. 99-237.00r.
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- Satanovsky, Abram Lazarevich: See—
Dyskin, Ernest Matveevich; Raevsky, Georgy Vladimirovich; Biletsky, Semen Mikhailovich; Burmenko, Eduard Jurievich; Grosman, Erikh Ruvimovich; Satanovsky, Abram Lazarevich; Kremnev, Oleg Alexandrovich; Zhuravlenko, Viktor Yakovlevich; and Protysyn, Boris Nikolaevich, 3,687,434.
- Satas, Wallace J.: See—
Foley, John J.; Satas, Wallace J.; and Konkel, Joseph, 3,677,176.
- Konkel, Joseph; and Satas, Wallace J., 3,656,602.
- Satchell, Eric William, to Guest Keen & Nettlefolds (Aust.) Limited. Wall frame structures. 3,680,271, 8-1-72, Cl. 52-656.000.
- Satcher, James Ware, Jr.: See—
Pizzimenti, Roger Philip; and Satcher, James Ware, Jr., 3,697,157.
- Satchwell, David L., to Garrett Corporation, The. Modular heat exchanger. 3,635,283, 1-18-72, Cl. 165-37.
- Satco Inc.: See—
Looker, Robert, 3,698,677.
- Saternus, Joseph P., to Borg-Warner Corporation. Multi-position, multi-mount I.V. rod and holder. 3,653,617, 4-4-72, Cl. 248-42.
- Sather, Eugene; Stocker, Lester H.; and Hams, Kenneth A., to Bell and Howell Company. Selective insertion machine having verification and overweight diversion. 3,652,078, 3-28-72, Cl. 270-58.
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Morane, Bruno; Paoletti, Charles; Merrien, Louis; Maurelli, Manlio; and Sathicq, Robert, 3,635,261.
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- Morane, Bruno; Maurelli, Manlio; Paoletti, Charles; Merrien, Louis; and Sathicq, Robert, 3,667,652.
- Satic, Pierre-Louis Joseph: See—
Le Strat, Guy Jean; Lannion, Rene Francois; and Satic, Pierre-Louis Joseph, 3,692,961.
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- Sato, Akira: See—
Kimura, Shiro; Nakazawa, Yoshiyuki; Sato, Akira; and Nakamura, Yasuharu, 3,656,959.
- Nadazawa, Yoshiyuki; Nakamura, Yasuharu; Takei, Haruo; Sato, Akira; and Ikeda, Tadashi, 3,677,765.
- Nakamura, Hiroto; Doi, Ken-ichi; Sato, Akira; and Suzuki, Yushin, 3,660,708.
- Nakamura, Hiroto; Sato, Akira; and Doi, Ken-ichi, 3,671,794.
- Nakazawa, Giyoshiyuki; Nakamura, Yasuharu; Takei, Haruo; Sato, Akira; and Ikeda, Tadashi, 3,705,809.
- Nakazawa, Yoshiyuki; Nakamura, Yasuharu; Haruo, Takei; Sato, Akira; and Ikeda, Tadashi, 3,681,080.
- Nakazawa, Yoshiyuki; Sueyoshi, Tohru; Sato, Akira; and Nakamura, Yoshiharu, 3,706,570.
- Sakaguchi, Yoshikata; Sakai, Masakado; Ohki, Masanaga; Nakamura, Yasuharu; Tsubota, Motohiko; and Sato, Akira, 3,694,217.

- Shiba, Keisuke; and Sato, Akira, 3,632,349.
- Shiba, Keisuke; Hinata, Masanao; Sato, Akira; and Misu, Hiroshi, 3,649,288.
- Shiba, Keisuke; Hinata, Masanao; Tsuji, Nobuo; Miyazako, Takushi; and Sato, Akira, 3,650,762.
- Shiba, Keisuke; Sato, Akira; and Ideka, Tadashi, 3,666,480.
- Shiba, Keisuke; Hinata, Masanao; Tsuji, Nobuo; and Sato, Akira, 3,674,499.
- Shiba, Keisuke; Tsubota, Motohiko; Sato, Akira; Ikeda, Tadashi; and Ogawa, Akira, 3,679,428.
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Matsushita, Shigenori; Sato, Fumitaka; Chujo, Hisao; and Horiike, Minoru, 3,683,360.
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- Matsushita, Shigenori; Sato, Fumitaka; and Miura, Haruhisa, 3,696,340.
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Tsuneta, Asahide; Ohta, Yasuo; Ikegaki, Makoto; Sawagata, Shinichi; and Sato, Fumiyuki, 3,659,133.
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Ohfuka, Toshio; Sato, Hideo; and Sagara, Kazunori, 3,636,187.
- Ohfuka, Toshio; Sato, Hideo; and Uchida, Yasuo, 3,686,019.
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Morikawa, Kazumasa; Kobayashi, Makoto; Sato, Hiromitsu; and Nakazima, Jun, 3,698,652.
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Yagi, Yoshiharu; Kobayashi, Akira; Hirata, Itsuro; and Sato, Hiroshi, 3,681,315.
- Sato, Hiroyoshi: See—
Ayano, Hiroyoshi; Kibino, Yasuaki; Sato, Hiroyoshi; Ohta, Yukihiko; and Fukuhara, Minoru, 3,683,303.
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Haruna, Takashi; and Sato, Hitoshi, 3,654,412.
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Komori, Shigehiro; and Sato, Jiro, 3,637,303.
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Enomoto, Siegharu; Sato, Katsunobu; and Suzuki, Goichi, 3,704,302.
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Irie, Toshiaki; Sato, Katsuo; and Nanko, Yoshiyuki, 3,671,340.
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Toyonaga, Ryuya; and Sato, Kazuo, 3,672,989.
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Nagata, Minoru; and Sato, Kozi, 3,652,347.
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Ishida, Moriyo; Hori, Terutsugu; Otsuka, Yuzuru; Sato, Kunimitsu; Inoue, Katsuyuki; and Ogata, Yoshio, 3,702,341.
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Inoue, Takehisa; Sato, Masaki; and Hashiguchi, Takeshi, 3,671,602.
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Fukushima, Osamu; Sato, Masamichi; and Matsumoto, Seiji, 3,707,139.
- Honjo, Satoru; Tamai, Yasuo; Sato, Masamichi; Matsumoto, Seichi; and Takimoto, Masaaki, 3,689,260.
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- Matsuzaki, Soichiro; Sato, Masanobu; and Kato, Toshikazu, 3,643,562.
- Sato, Masanori: *See—*
- Kugita, Hiroshi; Takeo, Satoshi; Sato, Masanori; and Nagao, Taku, 3,646,008.
- Nakai, Taiichiro; Sakaki, Hiroshi; Sato, Masanori; and Yuguchi, Hiroshi, 3,646,432.
- Watanabe, Toshio; Tsukamoto, Goro; Hayashi, Kimiaki; Sato, Masanori; and Iwasawa, Yoshio, 3,647,799.
- Sato, Masashi: *See—*
- Miyazawa, Tatsuo; and Sato, Masashi, 3,652,852.
- Sato, Masatoshi: *See—*
- Hirokawa, Yoichi; and Sato, Masatoshi, 3,665,289.
- Hirokawa, Yoichi; and Sato, Masatoshi, 3,679,960.
- Kobayashi, Torao; and Sato, Masatoshi, 3,700,015.
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- Ishikawa, Hidehiko; Sato, Mikio; and Takada, Syun, 3,700,455.
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- Nakanishi, Atsuo; Izawa, Shinichi; and Sato, Mikio, 3,664,977.
- Ogata, Masatzugu; Sato, Mikio; Watanabe, Yutaka; and Suzuki, Hiroshi, 3,637,572.
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- Murakami, Yoshio; Higashinakagawa, Iwao; Yasuda, Nobuaki; and Sato, Motoharu, 3,653,007.
- Sato, Naotake: *See—*
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- Sakamoto, Tetsuzo; Torii, Akiomi; Yokota, Mituhisa; and Sato, Seiko, 3,688,095.
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- Sato, Shigehiko: *See—*
- Yokoyama, Fujihiko; Yoneyama, Tohru; and Sato, Shigehiko, 3,679,438.
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- Sato, Shizuo: *See—*
- Nishimura, Hiroshi; and Sato, Shizuo, 3,663,470.
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- Ohkawa, Masaaki; Matsuo, Masatoshi; Sakaguchi, Tadao; and Sato, Syozi, 3,682,907.
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- Maeda, Hajime; Takeishi, Yoshiyuki; Sato, Tai; Hara, Hisashi; and Okamoto, Yoshihiko, 3,634,737.
- Takeishi, Yoshiyuki; Hara, Hisashi; Sato, Tai; and Sasaki, Isao, 3,636,421.
- Sato, Takashi: *See—*
- Kubo, Keishi; Sakai, Kiyoshi; Sato, Takashi; and Kuniaki, Hakamada, 3,689,302.
- Mimura, Norihisa; Chikamasa, Hiroshi; Aso, Kotaro; and Sato, Takashi, 3,648,984.
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- Okamoto, Tosiaki; Mori, Koziro; Yamazaki, Hayao; Abu, Takao; and Sato, Takefumi, 3,706,971.
- Yamazaki, Toshio; Abu, Takao; Sato, Takefumi; Nishida, Koji; and Okamoto, Tosiaki, 3,652,133.

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- Sato, Tatsuhiro: *See—*
- Kajiwaru, Toshiyuki; Nakanishi, Tsuneo; and Sato, Tatsuhiro, 3,635,417.
- Sato, Teruo: *See—*
- Yoshiyama, Masami; Sato, Teruo; and Takeda, Hitoshi, 3,674,928.
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- Sato, Toru: *See—*
- Yamamoto, Katsuro; Obata, Kuniyoshi; and Sato, Toru, 3,694,986.
- Sato, Toshio: *See—*
- Yoshimori, Nobuo; Nagayama, Tsuguo; and Sato, Toshio, 3,680,695.
- Sato, Tsutomu: *See—*
- Katsuyama, Shigeo; Asami, Atsumi; Watanabe, Masahide; Sato, Tsutomu; Norimatsu, Toshiaki; and Nakajima, Eizo, 3,672,819.
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- Sato, Yasuhiro: *See—*
- Tsugawa, Kazuyuki; and Sato, Yasuhiro, 3,638,411.
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- Maegawa, Harumi; Sato, Yoshihiro; Furuhashi, Yasuo; and Kiumi, Takayuki, 3,641,522.
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- Hemmi, Zenzo; Sasaki, Tatsuji; Matsui, Yuji; Maegawa, Harumi; Sato, Yoshihiro; Gotoh, Tsuneyasu; and Komatsu, Masahiro, 3,686,042.
- Shimaya, Kazunori; Kaneko, Katsuzo; Fujio, Yoshinori; and Sato, Yoshihiro, 3,701,893.
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- Takahashi, Kentaro; and Sato, Yoshihito, 3,689,986.
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- Sato, Yoshikazu; and Tanaka, Masaru. Spindle orientated stop mechanism for machine tool. 3,637,058, 1-25-72, Cl. 192-146.
- Sato, Yoshikuni: *See—*
- Arakawa, Takaaki; Saeki, Kenji; Sato, Yoshikuni; and Kitazawa, Yoriya, 3,652,705.
- Sato, Yoshinari: *See—*
- Sakai, Shuzo; Miyake, Toshio; and Sato, Yoshinari, 3,691,013.
- Umio, Suminori; Ueda, Ikuo; Sato, Yoshinari; and Maeno, Shizuo, 3,704,245.
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Kuhner, Gerhard; Sauer, Heinrich; Jager, Gerhard; and Dusing, Gerhard, 3,701,480.
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Brown, George M.; and Newman, Phyllis L., 3,632,066.
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Cox, Norman R.; and Saunby, John B., 3,646,128.
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Elking, Alan H.; Groner, Warren; and Saunders, Alex M., 3,661,460.
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Saunders, Charles A., 3,703,771.
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Dobinson, Frank; and Saunders, James H., 3,697,486.
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Knight, Paul A.; Saunders, James R.; and Stapleton, Fred E., 3,700,066.
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Brown, Richard C.; and Saunders, Orson V., 3,667,249.
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Ford, James A.; Saunders, Stuart R.; Caule, Elmer J.; and McLain, Charles D., 3,646,946.
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Carlier, Claude, 3,633,726.
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Porter, Allan William Henry, 3,662,786.
Porter, Allan William Henry, 3,670,775.
Porter, Allan William Henry, 3,685,550.
- Sauro, Louisa J.: See—
Peterson, Laurence I.; and Sauro, Louisa J., 3,642,717.
Peterson, Laurence I.; and Sauro, Louisa J., 3,642,860.
- Sause, Henry William: See—
Lovell, Calvin; and Sause, Henry William, 3,637,679.
- Sausele, George J. H.: See—
Hanson, Ellis P.; and Sausele, George J. H., 3,688,672.
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Sausser, Alfred, 3,654,552.
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McAllister, William A.; and Sausville, Joseph W., 3,644,212.
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Schieff, Alfred, 3,662,159.
Wirth, Walter; and Kuhl, Burkhardt, 3,701,392.
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Kaske, Alan D.; and Sauter, Gerald F., 3,696,349.
Paul, Maynard C.; Sauter, Gerald F.; and Oberg, Paul E., 3,683,407.
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Capaul, Marcel; and Sauter, Hermann, 3,689,217.
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Peil, William; Daino, Peter R.; and Sauter, Lon J., 3,705,367.
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Nichols, Matthew, 3,657,055.
Nichols, Matthew, 3,694,295.
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Reuter, Wolfgang; Kutter, Eberhard; Sauter, Robert; Machleidt, Hans; and Wildfeuer, Alexander, 3,655,685.
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Ghose, Rabindra N.; and Sauter, Walter A., 3,699,444.
Martin, David R.; and Sauter, Walter A., 3,648,176.
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- Sauterel, Gerard; and Formerod, Andre, to Matisa Materiel Industriel S.A. Process for the alignment of railway tracks. 3,664,265, 5-23-72, Cl. 104-8.000.
- Sautter, Alton F.: See—
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- Sautter, Gerhard: See—
Meyer, Jurgen; and Sautter, Gerhard, 3,671,839.
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- Sauvage, Michel: See—
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- Sauvaget, Gaston. Apparatus for converting hydraulic or pneumatic energy into kinetic energy or vice versa, such as a rotary multi-chamber vane-type motor or pumps. 3,639,092, 2-1-72, Cl. 418-175.
- Sauvagnac, Robert: See—
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- Sauvan, Jacques Louis, to Societe Anonyme dite: Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, S.N.E.C.M.A. Active memory. 3,651,495, 3-21-72, Cl. 340-173.
- Sauvan, Jacques Louis; and Berthelemy, Jacques. Data processing apparatus. 3,688,278, 8-29-72, Cl. 340-172.500.

- Savage, Bruce Russell, to Bell Telephone Laboratories, Incorporated. Digital constant-percent-break pulse correcting signal timer. 3,700,821, 10-24-72, Cl. 179-16.00e.
- Savage, Deborah F.: See—
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- Savage, Donald Stanley: See—
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- Savage, Donald Stanley, to Aerpat A.G. Lockbolt swaging apparatus. 3,695,086, 10-3-72, Cl. 72-391.000.
- Savage, Eric John: See—
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- Savage, Harry A.: See—
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- Savage, Jack W., to General Motors Corporation. Method and apparatus for manufacture of a squirrel cage rotor. 3,665,593, 5-30-72, Cl. 29-598.000.
- Savage, James R.: See—
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- Savage, Joseph. Ferrule assembly for a push broom or the like. 3,682,516, 8-8-72, Cl. 306-30.000.
- Savage Laboratories, Inc.: See—
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- Savage, Michael Philip: See—
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- Savage, Paul E.; and Sperline, Paul D. Time delay control. 3,680,539, 8-1-72, Cl. 123-198.00b.
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- Savage, W. J., Co., Inc.: See—
Densmore, Richard M., 3,687,008.
- Savageau, Robert George: See—
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- Savant Instruments, Inc.: See—
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- Savard, Guy: See—
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- Savas, John, to Republic Steel Corporation. Heat treatable, high strength, high toughness, low carbon, NI-MO alloy steel. 3,645,721, 2-29-72, Cl. 75-123.
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- Bolotin, Evgeny Moiseevich; Ierusalimsky, Boris Nikolaevich; Ostrovsky, Igor Semenovich; Razmerov, Vladimir Ivanovich; Ratn, Valentin Isidorovich; Rivilis, Mikhail Evseevich; Saveliev, Leonid Ivanovich; Khaidurov, Leonid Konstantinovich; Khodosh, Vladimir Alexandrovich; and Pisarev, Nikolai Dmitrievich, 3,695,720.
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- Saveth, Ivan H., to Thermoformed Plastics Corporation. Cover for spool. 3,672,598, 6-27-72, Cl. 242-118.200.
- Savey, Lenfred L., to Philco-Ford Corporation. Panel room status indicator system and room unit therefor. 3,705,422, 12-5-72, Cl. 340-286.00r.
- Savickas, Anthony P. Machine for producing simulated bamboo. 3,632,273, 1-4-72, Cl. 425-392.
- Savides, Christos: See—
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- Savides, Savas P. Pocket noise making and alarm device. 3,670,321, 6-13-72, Cl. 340-384.000.
- Savidge, Alexander B. Speed measuring instrument. 3,636,775, 1-25-72, Cl. 73-507.
- Saville, Brian: See—
Cain, Maurice Edward; Saville, Brian; and Knight, Geoffrey Thomas, 3,689,513.
- Savin Business Machines Corporation: See—
Charlap, E. Paul; Baumgarten, Fritz; and Fischer, Lothar, 3,639,051.
- Savino, Henry C.: See—
Suoizzo, John; and Savino, Henry C., 3,648,805.
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Artioli, Louis J.; and Savioli, Giulio V., 3,645,160.
- Savit, Carl H., to Western Geophysical Company of America. Method of displaying seismic data. 3,662,325, 5-9-72, Cl. 340-15.5ds.
- Savit, Carl H., to Western Geophysical Company of America. Extended area acoustic impulse generator. 3,670,839, 6-20-72, Cl. 181-50h.
- Savit, Carl H., to Western Geophysical Company of America. Method for measuring the characteristics of mechanical-to-electrical transducers. 3,693,400, 9-26-72, Cl. 73-1.000.
- Savit, Carl H. Method of geophysical prospecting by measuring the attenuation of seismic waves in the earth. 3,706,069, 12-12-72, Cl. 340-15.5ep.
- Savit, Joseph; Guzik, Rudolph P.; Wayne, Harry A.; Saklikar, Arvind R.; and Van Eck, Jack M., to American Photocopy Equipment Company. Electrostatic developing system. 3,669,073, 6-13-72, Cl. 118-637.000.
- Savitsky, Evgeny Mikhailovich: See—
Stroganov, Genrikh Borisovich; Savitsky, Evgeny Mikhailovich; Tikhova, Nina Mikhailovna; Terekhova, Vera Fedorovna; Volkov, Mstislav Vasilievich; Sivash, Konstantin Mitrofanovich; and Borodkin, Vladislav Sergeevich, 3,687,135.
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- Savonkin, Nikolai Porfirievich: See—
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- Savor, Dennis E., to Combustion Engineering, Inc. Apparatus for initiating the heat generation phase of an electroslog refining process. 3,654,373, 4-4-72, Cl. 13-9.
- Savory, Anthony James, to Lucas, Joseph, (Industries) Limited. Apparatus for hot runner injection moulding. 3,669,596, 6-13-72, Cl. 18-30.
- Savory Equipment, Inc.: See—
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- Savote, Hilbert J., Jr. Underwater pipeline-riser clamps for use on oil and gas pipelines. 3,664,621, 5-23-72, Cl. 248-44.00r.
- Sawa, Kenneth B.: See—
Gomez, Ray J.; and Sawa, Kenneth B., 3,674,153.
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- Sawa, Kenneth B.; and Neti, Radhakrishna M., to Beckman Instruments, Inc. Electrochemical cell. 3,686,091, 8-22-72, Cl. 204-195.00f.
- Sawa, Yoichi: See—
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- Sawa, Yoshi; Itoh, Takashi; Kojima, Minoru; and Sotomura, Mikio, to Kanegafuchi Boseki Kabushiki Kaisha. Process for manufacturing fibrous structure having excellent recovery from extension by treatment with polyorganosiloxane and a polyethylene glycol or erivative thereof. 3,639,154, 2-1-72, Cl. 117-138.8.
- Sawa, Yoshiro; Maeda, Ryojo; and Tada, Haruhiko, to Shionogi & Co., Ltd. L-N Allylic-3-hydroxy-6-oxo-morphinans. 3,654,280, 4-4-72, Cl. 260-285.
- Sawa, Yoshiro; Maeda, Ryojo; and Irisawa, Junji, to Shionogi & Co., Ltd. Process for removing phenolic hydroxyl group from phenolic compounds. 3,707,470, 12-26-72, Cl. 260-285.000.
- Sawa, Yuji: See—
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- Sawada, Eiji, to Denki Onkyo Co., Ltd. Deflection yokes for cathode ray tubes. 3,671,894, 6-20-72, Cl. 335-210.000.
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- Sawada, Hiraki; and Masaki, Kenji. Engine exhaust gas oxidizing system. 3,662,541, 5-16-72, Cl. 60-30.00r.
- Sawada, Hiraki, to Nissan Motor Company, Limited. Air-pollution preventing system. 3,673,997, 7-4-72, Cl. 123-136.000.
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- Sawada, Kiyoshi: See—
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- Sawada, Toshio, to Aisin Seiki Kabushiki Kaisha. Control means for buttonhole zigzag sewing machine. 3,670,676, 6-20-72, Cl. 112-158.00b.

- Sawafuji Electric Co., Ltd.: See—
Hazumi, Kenji, 3,656,049.
- Sawagata, Shinichi: See—
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- Tsuneta, Asahide; and Sawagata, Shinichi, 3,667,824.
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- Sawaguchi, Etsuro: See—
Kodera, Yoichi; Kitamura, Tomosaburo; and Sawaguchi, Etsuro, 3,632,443.
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- Sawaka, Jiro; Misaki, Tetsuo; Okabe, Masao; Yasui, Hajime; Hanada, Kazunori; and Okazaki, Tadayasu, to Taisho Pharmaceutical Ltd. Process for the preparation of amylase. 3,652,400, 3-28-72, Cl. 195-66.
- Sawaki, Ryoichi: See—
Motoyama, Kazuyasu; Sawaki, Ryoichi; and Nakamura, Takeaki, 3,696,217.
- Sawaki, Teiji: See—
Sawaki, Teiji; and Otsuka, Sigenobu, 3,649,400.
- Sawaki, Teiji; and Otsuka, Sigenobu, 20% to Toa Wool Spinning & Weaving Co. Ltd., 40% to Sawaki, Teiji and 40% to Otsuka, Sigenobu. Method of manufacturing nonwoven fabric with pattern formed thereon. 3,649,400, 3-14-72, Cl. 156-148.
- Sawamura, Osamu: See—
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- Sawamura, Robert T., to Honeywell Inc. Transfer function monitoring apparatus. 3,643,073, 2-15-72, Cl. 235-150.2.
- Sawamura, Yasumasa: See—
Ishimitsu, Akitoshi; Furui, Takeo; Sato, Katsuhiko; and Sawamura, Yasumasa, 3,649,248.
- Sawano, Takahiro: See—
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- Sawato, Iwao: See—
Makino, Katsuo; and Sawato, Iwao, 3,679,405.
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Stolar, Morris Emmanuel; and Sawaya, Assad Sami, 3,651,218.
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Yamasaki, Hiroo; Kurita, Yoshio; Ishikawa, Yutaka; and Sawayama, Takehiro, 3,693,438.
- Sawazi, Masao: See—
Yamada, Keisho; Umemura, Sumio; Ohdan, Kyoji; Hidaka, Mikio; Fukuda, Kazuo; and Sawazi, Masao, 3,688,002.
- Sawazu, Toshihiko: See—
Oba, Harutaro; Sawazu, Toshihiko; Takeuchi, Sugio; and Chikata, Masaru, 3,670,957.
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Araujo, Roger J.; Sawchuk, Loris G.; and Seward, Thomas P., III, 3,703,388.
- Garfinkel, Harmon M.; Sawchuk, Loris G.; and Stookey, Stanley D., 3,656,923.
- Sawert, Walter, to Continental Can Company, Inc. Margin preparation machine. 3,651,606, 3-28-72, Cl. 51-80.
- Sawhill, Duane L.: See—
Long, Alfred; and Sawhill, Duane L., 3,639,284.
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- Sawicki, Frederick F.: See—
Redmond, Sanford; and Sawicki, Frederick F., 3,631,652.
- Sawicki, Joseph J.: See—
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- Sawko, Paul M., to United States of America, National Aeronautics and Space Administration. Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines. 3,663,464, 5-16-72, Cl. 260-2.5fp.
- Sawko, Paul M., to United States of America, National Aeronautics and Space Administration. Intumescent paint containing nitrile rubber. 3,702,841, 11-14-72, Cl. 260-2.50f.
- Sawmill Hydraulics, Inc.: See—
Helle, Gordon W., 3,640,323.
- Sawtelle, Donald W.: See—
Marovich, Frank A.; Bordeaux, Jean; and Sawtelle, Donald W., 3,694,321.
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Christianson, Floyd W.; Oakes, William J.; and Sawtelle, James T., 3,648,869.
- Sawyer, Arthur W.; and Csejka, David A., to Olin Corporation. Water-insensitive hydraulic fluids containing bis-borate esters or bridged-borate esters. 3,635,825, 1-18-72, Cl. 252-75.
- Sawyer, Arthur W.; and Csejka, David A., to Olin Mathieson Chemical Corporation. Borate esters prepared by successive reactions of boric acid with glycol monoethers and polyols. 3,637,794, 1-25-72, Cl. 260-462.
- Sawyer, Bruce A. Magnetic take-up device for umbilical cable or the like. 3,643,195, 2-15-72, Cl. 335-285.
- Sawyer, Carl B.: See—
Black, Thomas J.; and Sawyer, Carl B., 3,695,279.
- Sawyer, David W., to Aluminum Company of America. Extrusion lubricant. 3,637,498, 1-25-72, Cl. 252-30.
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- Sawyer, Edgar W., Jr.; and Dzierzanowski, Frank J. Paper containing electroconductive pigment and use thereof. 3,694,202, 9-26-72, Cl. 96-1.800.
- Sawyer, Elbert M.; and Haas, William M., to General Motors Corporation. Circuit for dissipating the potential induced in each phase winding of a cycloconverter operated motor upon termination of conduction therethrough. 3,684,935, 8-15-72, Cl. 318-227.000.
- Sawyer, Elbert M.; and Bourbeau, Frank J., to General Motors Corporation. Cycloconverter silicon controlled rectifier gate signal delay circuit. 3,689,813, 9-5-72, Cl. 318-227.000.
- Sawyer, Elbert M.; Brown, Joseph M.; Munden, Curtis D.; and Giles, Kenneth E., to General Motors Corporation. Cycloconverter silicon controlled rectifier gate-cathode circuit signal and power system. 3,702,429, 11-7-72, Cl. 318-227.000.
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- Sawyer, John M., to Goodyear Tire & Rubber Company. The Foam structure with protective overcoat. 3,698,927, 10-17-72, Cl. 117-33.000.
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Tibbetts, George C.; and Sawyer, Joseph A., 3,671,684.
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Roche, John M.; and Sawyer, Rene C., Jr., 3,659,945.
- Sawyer, Roy D., to Nalco Chemical Company. Corrosion inhibition. 3,649,167, 3-14-72, Cl. 21-2.5.
- Sawyer, Roy D.; and Tinsley, John D., to Nalco Chemical Company. Sewage treatment. 3,673,083, 6-27-72, Cl. 210-18.000.
- Sawyer, Samuel P.: See—
Kessler, Lawrence W.; and Sawyer, Samuel P., 3,707,323.
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- Saxe, Irving Henry: See—
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- Saxena, Arjun Nath, to RCA Corporation. Method of coating selective areas of the surface of a body. 3,687,722, 8-29-72, Cl. 117-212.000.
- Saxena, Arjun Nath, to RCA Corporation. Schottky barrier diode. 3,694,719, 9-26-72, Cl. 317-234.00r.
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- Saxer, Robert A. Splash arrester having impact member supported in housing. 3,705,672, 12-12-72, Cl. 222-567.000.
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Fluhmann, Werner; and Saxer, Walter, 3,660,251.
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- Saxon Industries, Inc.: *See*—
Van Auker, John; Kaufman, M. Gene; and Pfaff, William A., 3,677,637.
Van Auker, John A.; Kaufman, Mahlon Gene; and Blank, Fritz, 3,677,635.
- Saxton, Arthur L., to Esso Research and Engineering Company. Fluid coking process incorporating gasification of product ore. 3,661,543, 5-9-72, Cl. 48-206.
- Saxton, Arthur L., to Esso Research and Engineering Company. Two stage fluid coking. 3,671,424, 6-20-72, Cl. 208-127,000.
- Saxton, Arthur L.; and Jenkinson, Ronald J., to Esso Research and Engineering Company. Catalytic cracking process. 3,687,841, 8-29-72, Cl. 208-164,000.
- Saxton Products, Inc.: *See*—
Firestone, Jerome, 3,660,797.
Firestone, Jerome, 3,668,324.
Jarmalow, Benjamin, 3,680,810.
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- Say, Donald L., to GTE Sylvania Incorporated. Electrode alignment and assembling device. 3,702,020, 11-7-72, Cl. 29-25,190.
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Chilton, Henry Thomas Joseph; Everest, David Anthony; and Sayce, Ian George, 3,642,453.
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Leontaritis, Lambis; Schon, Nikolaus; Hoffmann, Hans; and Sayed, Aziz El, 3,696,498.
- Sayell, Emerson H.: *See*—
Bunker, James F.; Poland, James E.; Sayell, Emerson H.; and Schmidt, George V., 3,697,329.
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- Sayers, Ben, Limited: *See*—
Letters, Hope Lowrie, 3,685,135.
- Sayers, Eugene H.: *See*—
Buck, Robert E.; Metzger, Robert W., Jr.; Rittmann, Albert D.; and Sayers, Eugene H., 3,679,946.
- Sayers, George M.: *See*—
Walls, Henry M.; Sayers, George M.; and Walls, Noel B., 3,701,344.
- Sayers, Howard A.: *See*—
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Hayash, Edward F., Jr.; Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., 3,673,128.
Nashu, Abdul-Munim; Ulrich, Henri; and Sayigh, Adnan A. R., 3,652,738.
Rao, Durvasula V.; Sayigh, Adnan A. R.; and Ulrich, Henri, 3,644,413.
Rao, Durvasula V.; Sayigh, Adnan A. R.; and Ulrich, Henri, 3,676,436.
Rao, Durvasula V.; Sayigh, Adnan A. R.; and Ulrich, Henri, 3,682,954.
Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., 3,639,534.
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Muller, Leslie Dyne; Sayles, Charles Philip; and Mozley, Richard Henry, 3,674,144.
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McIntyre, John Armin; and Saylor, Dwight Proffer, 3,652,855.
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Marcus, Douglas Larry; and Sayre, Clifford L., Jr., 3,656,458.
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Sayre, David E., 3,691,050.
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Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Sazuo, Komishi, 3,642,900.
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Colombo, Umberto; Scacciati, Giovanni; Sironi, Giuseppe; and Vaschetti, Amos, 3,649,186.
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Micklewright, Percy Leonard; and Scaddan, Ernest Victor, 3,668,763.
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Breitkopf, Stephen H.; and Scaduto, Michael, 3,699,591.
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Motz, Jerome C.; and Scaffidi, Francis, 3,682,227.
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Sloane, Edwin A.; and Scaggs, Lee E., 3,670,326.
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Dixon, George D.; and Scala, Luciano C., 3,656,909.
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Roberts, Henry; Weirgin, Arthur R.; and Scala, Richard V., 3,649,756.
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Gondolfe, James D.; Scalan, Ruth; and Ward, Jeanne A., 3,687,660.
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Scarnecchia, Gregory; and Scalera, Frank T., 3,674,173.
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Mc Culler, James F., 3,697,639.
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Katz, Edward; Ehrenthal, Irving; and Scallet, Barrett L., 3,684,574.
Katz, Edward; Ehrenthal, Irving; and Scallet, Barrett L., 3,690,948.
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Hankins, Ronald A.; Culver, Donald W.; and Scammon, Harrison B., Jr., 3,702,174.
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Helfand, Fredric E.; and Baer, Marvin B., 3,639,728.
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Partin, Melvin E., 3,676,847.
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Forman, David; and Scandalis, Angelo C., 3,633,852.
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Alexander, James; and Higgins, Lester A., 3,688,467.
Anderson, Andrew W., 3,633,334.
Anderson, Andrew W., 3,654,829.
Anderson, Andrew W.; Alexander, James; Leszczynski, Martin E.; and Higgins, Lester A., 3,656,273.
Leszczynski, Martin E., 3,683,585.
- Scandimant Aktiebolag: *See*—
Lindstrom, Cedric E., 3,652,220.
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Lennox, Thomas M., 3,695,550.
Tramfrell, James R., 3,647,987.
Trammell, James R., 3,649,773.
Trammell, James R., 3,651,382.
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Pakutka, Willard M.; Cerulli, Nicholas F.; and Scanlon, Gerald T., 3,636,297.
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Clark, Burton P.; and Scanlon, James D., 3,690,215.
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Olson, Theodore A.; and Scanlon, John J., 3,679,781.
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Quinlan, Joseph B.; and Scanlon, John J., Jr., 3,705,549.
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Gentry, Charles B.; Scanlon, Robert M.; Rumery, Jerome; McDonald, Howard L.; and Keeler, Larry G., 3,668,910.
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Greengard, Julius Edward, Jr.; and Scannell, Thomas J., 3,653,595.
- Scanner, Inc.: *See*—
Acker, Norbert Karl, 3,632,993.
Acker, Norbert Karl, 3,701,098.
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Converse, Vernon G., III; Allington, George R.; and Mosher, Peter J., 3,631,967.
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Smith, Richard L.; and Sauerbrey, Dennis F., 3,697,865.
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Georgiev, Tancho D.; and Scanzani, Robert M., 3,665,882.
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Glatzer, Stephen G.; and Scappatura, Rocco, 3,665,315.
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Edmundson, Harold E., 3,633,793.
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Dederich, William J.; and Scar, Howard S., 3,650,532.
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Nord, Eric T.; Rosen, Samuel R.; Scarborough, Don R.; Vilagi, Burton J.; and Runstadler, Peter W., Jr., 3,635,400.
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Friedman, Cecil A.; Scarcello, Francis J.; Shultz, Andrew; and Walter, Julius E., 3,634,271.
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- Scarlett, Charles C.: *See*—
Boyer, John R.; and Scarlett, Charles C., 3,649,740.
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- Scarlett, Wallace W.: *See*—
Fritze, William R.; and Scarlett, Wallace W., 3,664,009.
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Peacock, Peter J.; and Scarnato, Thomas J., 3,672,135.
Tufts, Guy O.; Scarnato, Thomas J.; and Peacock, Peter J., 3,670,483.
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- Chorvat, Robert J.; Pappo, Raphael; and Scaros, Mike G., 3,644,342.
- Scarpelli, Joseph A., to National Cash Register Company. The. Enzymatic treatment of gelled proteinaceous film material. 3,639,259, 2-1-72, Cl. 252-316.
- Scarpellino, Richard: See—
- Bentz, Alan P.; and Scarpellino, Richard, 3,676,156.
- Parliment, Thomas H.; Clinton, William P.; Scarpellino, Richard; Soukup, Robert J.; and Epstein, Martin F., 3,655,397.
- Scarritt, Francis M., Sr. Hydra-cushion boat. 3,636,907, 1-25-72, Cl. 114-66.5.
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- Eig, Merrill; and Scavuzzo, John J., 3,677,063.
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- Black, Charles E., III; and Schaad, William J., 3,686,449.
- Schaad, William J., to Indak Manufacturing Corporation. Electrical switch with selective blocking action. 3,632,916, 1-4-72, Cl. 200-42.
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- Schindler, Werner; Schaaff, Karl; and Planitzer, Erich, 3,652,034.
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- Schaapveld, Arnoldus A. W.: See—
- Waning, Hendrik; Mannens, Hubertus A.; and Schaapveld, Arnoldus A. W., 3,667,194.
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- Schaar, Charles H., to Kendall Company. The. Baby panty. 3,650,273, 3-21-72, Cl. 128-287.
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- Schabacher, Werner: See—
- Schulze, Manfred; and Schabacher, Werner, 3,669,621.
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- Schabert, Hans-Peter: See—
- Harand, Elmar; and Schabert, Hans-Peter, 3,666,623.
- Kruger, Joachim; Schabert, Hans-Peter; Schubert, Franz; and Weber, Robert, 3,691,011.
- Pomer, Horst; Schabert, Hans-Peter; and Weber, Robert, 3,690,685.
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- Schachat, Norman: See—
- McNamee, Raymond W.; Mlynar, Lubomir; and Schachat, Norman, 3,671,472.
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- Schachowsky, Theodor: See—
- Demme, Ernst; Schachowsky, Theodor; Schuhmacher, Guenther; Fehlhaber, Jurgen; and Hartmann, Ludwig, 3,647,594.
- Schacht, Henry Neil. Method of cutting and packing poultry. 3,675,272, 7-11-72, Cl. 17-52.000.
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- Lindahl, Charles B.; Schack, Carl J.; and Pilipovich, Donald, 3,701,630.
- Pilipovich, Donald; and Schack, Carl J., 3,692,476.
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- Schade, Gustav, Maschinenfabrik: See—
- Potthoff, Ingo, 3,658,169.
- Schade, Johannes: See—
- Wittmoser, Adalbert; Schade, Johannes; and Krzyzanowski, Erich, 3,654,987.
- Schade, Kurt. Device for feeding palletes to a compression station of a roofing tile forming machine. 3,674,402, 7-4-72, Cl. 425-306.000.
- Schadel, Jurgen: See—
- Arndt, Heinz-Herbert; Schadel, Jurgen; and Muller, Dieter, 3,633,076.
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- Petzold, Jürgen; and Scheidler, Herwig, 3,642,504.
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- Davidson, Keith Vernon; and Schell, Donald H., 3,666,845.
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Birkholtz, Gottfried, 3,643,502.
Klinger, Friedrich, 3,696,663.
Maus, Otfried; Mueller, Martin; and Mueller, Robert, 3,698,828.
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Schenck, Robert L.; Schenck, George E.; and Senft, Frank W., 3,680,347.
- Schenck, George E.: See—
Schenck, Robert L.; Schenck, George E.; and Senft, Frank W., 3,680,347.
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Wenzel, Werner; and Schenck, Hermann, 3,647,379.
- Schenck, Jackson C.: See—
Morgan, Harvey E.; Suttle, Theodore; and Schenck, Jackson C., 3,646,984.
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Eisenan, Fred S., Jr.; Schenck, Leslie Millard; and Beiswanger, John P. G., 3,686,368.
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Gonzenbach, Carlos T.; and Jordan, Manuel A., 3,640,977.
Jordan, Manuel A.; Zaleski, Edmund J.; and Newell, Julian E., Jr., 3,646,374.
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Bauger, Louis Jules; Beyler, Roland Robert Charles; Le Guen, Henri; Pidebois, Jacques Eloi; and Schenher, Michel Bernard, 3,677,013.
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Urbutis, Algimantas P.; Schenk, Bernard H.; Risany, Joseph J.; and Marbach, Walter V., 3,704,483.
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Schenk, Robert E., 3,660,953.
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Petrzlika, Theodor; Hofmann, Albert; Schenk, Hansruedi; Troxler, Franz; Frey, Albert; and Ott, Hans, 3,647,801.
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Roth, Willi; and Schenk, Otto Erwin, 3,694,545.
Roth, Willi; and Schenk, Otto Erwin, 3,694,546.
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Bockler, Herbert, 3,662,894.
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Leimgruber, Willy; and Schenker, Fausto Eugenio, 3,661,913.
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Russakoff, Robert S.; De Luca, Carlo Bruno; Schenker, Henry; Henchcliffe, Alfred L.; and Williams, Dennis C., 3,694,694.
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- Scherb, Helmut: See—
Brandt, Hans-Walther; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; Schleppinghoff, Bernhard; and Schnuchel, Gunther, 3,655,806.
Schleppinghoff, Bernhard; Scherb, Helmut; and Puxbaumer, Hans, 3,674,883.
Schliebs, Reinhard; Brandt, Hans-Walther; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; and Schnuchel, Gunther, 3,686,349.
- Scherbakov, Jury Dmitrievich: See—
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Besedin, Leonid Nikolaevich; Zhurenko, Anna Timofeevna; Urvantsev, Leonid Mikhailovich; Scherbakov, Jury Dmitrievich; Yasyukevich, Boris Ivanovich; Demin, Anatoly Anisimovich; and Peshkov, Evgeny Iktorovich, 3,654,756.
- Scherban, Alexandr Nazarievich; Furman; Neonil Izrailevich; Sotnichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Jury Ivanovich; Sutormin, Jury Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chaschinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna. Apparatus for determining the concentration of combustible gases and vapours. 3,678,489, 7-18-72, Cl. 340-237.00r.
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- Schere, Jonathan L.: See—
Wohl, Charles J.; Schere, Jonathan L.; and Costello, Thomas V., 3,676,839.
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Beatenbough, Paul K.; and Scherer, Carl A., 3,702,066.
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Johnson, Virgil E., Jr.; Scherer, John O., Jr.; Miller, Eugene R.; and Blass, Viggo A., 3,635,253.
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Eggenmuller, Alfred; Scherer, Lorenz; Notter, Eugen; Bellan, Heinrich; and Wagler, Werner, 3,687,061.
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Moreland, Stephen T., 3,650,084.
- Scherer, Robert D.: See—
Velie, Wallace W.; and Scherer, Robert D., 3,637,336.
- Scherhag, Bernhard: See—
Hagedorn, Ferdinand; Wedemeyer, Karlfried; Scherhag, Bernhard; and Hausweiler, Arnold, 3,686,194.
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Albrecht, Rudolf; Kessler, Hans-Joachim; and Schroder, Eberhard, 3,660,385.
Albrecht, Rudolf; Kessler, Hans-Joachim; and Schroder, Eberhard, 3,671,520.
Berdt, Hans-Detlef; Steinbeck, Hermann; and Wiechert, Rudolf, 3,646,075.
Berndt, Hans Detlef; and Wiechert, Rudolf, 3,700,670.
Boroscowski, Gerhard; Arndt, Friedrich; and Rusch, Reinhart, 3,692,820.
Burba, Christian; Drawert, Manfred; Voigt, Hartmut; and Griebisch, Eugen, 3,697,458.
Buschhoff, Max, 3,671,561.
Clauss, Wolfgang; and Menz, Dieter, 3,661,596.
Dahms, Wolfgang, 3,649,373.
Engelfried, Otto; Neumann, Friedmund; and Wiechert, Rudolf, 3,641,013.
Gries, Heinz; Hader, Josef; and Steinbeck, Hermann, 3,691,213.
Gutsche, Klaus; and Muftic, Mahmud, 3,632,584.
Gutsche, Klaus; Albrecht, Rudolf; Kessler, Hans-Joachim; and Schroder, Eberhard, 3,707,485.
Hempel, Gerhard; Wieske, Reinhold; Krieger, Bernhard; and Kaspar, Emanuel, 3,700,660.
Henig, Hans L., 3,650,937.
Hoyer, Georg-Alexander; and Pieroh, Ernst Albrecht, 3,649,674.
Imoehl, Wolfgang; and Borner, Peter, 3,655,617.
Laurent, Henry; Steinbeck, Hermann; and Wiechert, Rudolf, 3,637,668.
Laurent, Henry; Kolb, Karl Heinz; and Wiechert, Rudolf, 3,678,034.
Laurent, Henry; Kolb, Karl H.; and Wiechert, Rudolf, 3,681,405.
Lehmann, Hans-Gunter, 3,632,576.
Lehmann, Hans-Gunter; Zollner, Georg; and Wiechert, Rudolf, 3,655,643.
Philippson, Rainer; Gibian, Heinz; Muftic, Mahmud; and Kaspar, Emanuel, 3,639,433.
Philippson, Rainer; Hauser, Helmut; Gibian, Heinz; Kaspar, Emanuel; and Kessler, Hans-Joachim, 3,674,815.
Raettig, Hansjurgen, 3,651,214.
Wiechert, Rudolf; and Laurent, Henry, 3,644,441.
Wiechert, Rudolf, 3,652,604.
Wiechert, Rudolf, 3,657,288.
Wiechert, Rudolf, 3,671,554.
Wieske, Reinhold, 3,681,404.
- Scherling A.G. Berlin und Bergkamen: See—
Kruger, Siegfried, 3,684,166.
- Scherling Corporation: See—
Fernandez, Raul O.; Cannito, Vincent F.; and Olsen, Oscar, 3,696,188.
Gold, Elijah H., 3,635,950.
Mallams, Alan K., 3,669,952.
- Mallams, Alan K., 3,669,953.
- Marquez, Joseph A.; Wagman, Gerald H.; and Cooper, David J., 3,651,042.
- Motola, Solomon, 3,634,393.
- Popper, Thomas L., 3,684,799.
- Popper, Thomas L.; Herzog, Hershel L.; and Shapiro, Elliot L., 3,707,487.
- Rausser, Richard C.; and Shapiro, Elliot L., 3,707,484.
- Reimann, Hans, 3,697,649.
- Shapiro, Elliot L., 3,673,223.
- Sherlock, Margaret H., 3,644,424.
- Sherlock, Margaret H.; and Sperber, Nathan, 3,674,832.
- Sherlock, Margaret H., 3,681,394.
- Sherlock, Margaret H., 3,686,406.
- Sherlock, Margaret H.; and Sperber, Nathan, 3,689,653.
- Sherlock, Margaret H., 3,697,533.
- Steinman, Martin, 3,663,602.
- Teusch, George J.; and Shapiro, Elliot L., 3,665,017.
- Topliss, John G., 3,641,017.
- Topliss, John G., 3,641,147.
- Walter, Lewis A., 3,642,807.
- Weinstein, Marvin J.; Luedemann, George M.; Wagman, Gerald H.; and Marquez, Joseph A., 3,632,750.
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Stone, Ellery W., 3,682,596.
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- Schermy Limited: See—
Bowring, Graeme, 3,685,451.
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Truppe, Meinhard; Scherthaner, Matthias; and Pofert, Gunter, 3,647,559.
Truppe, Meinhard; Scherthaner, Matthias; and Pofert, Gunter, 3,647,560.
Truppe, Meinhard; Scherthaner, Matthias; and Pofert, Gunter, 3,652,068.
- Scherr, R. P., Corporation, mesne: See—
Rolle, Fernand Jacques, 3,653,934.
- Scherrer, Donat: See—
Sauerbruch, Ernst; Scherrer, Donat; and Vogt, Willy, 3,674,400.
- Scherrer, Joseph H.: See—
Kincheloc, Richard D.; and Scherrer, Joseph H., 3,644,566.
- Schertz, Eugene P., to Dunkin Donuts Incorporated, mesne. Continuous doughnut making machine. 3,635,171, 1-18-72, Cl. 107-69.
- Scherz, Abraham Isaac: See—
Litvin, Noel, 3,640,107.
- Scherz, Peter: See—
Schwarz, Ernst; and Scherz, Peter, 3,659,996.
- Scherzberg, Herbert; Neumann, Herbert; Schnegg, Robert; and Dietrich, Theo, to Farbenfabriken Bayer Aktiengesellschaft. Method and an apparatus for the production of crimped synthetic filaments. 3,638,410, 2-1-72, Cl. 57-34.
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Parthasarathy, R.; Scherzer, Julius; and Warthen, John L., 3,652,459.
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- Schetinin, Anatoly Alexandrovich. Steam pressure and temperature reducing installation. 3,705,684, 12-12-72, Cl. 236-12.000.
- Schettl, Myron D.: See—
Bean, Donald E.; Engh, James T.; Hammer, James R.; Schettl, Myron D.; Tashjian, Harry J.; Ullmer, Richard J.; and Kerr, John W., 3,642,197.
Igel, John J.; and Schettl, Myron D., 3,665,403.
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- Scheu, Louis O., Jr.: See—
Parker, Samuel A.; and Wilding, Edwin L., 3,677,390.
- Scheu Manufacturing Company: See—
Dent, Charles E.; and Vaughn, Donald A., 3,645,512.

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- Scheuber, Konrad: *See—*
- Strebel, Albert; and Scheuber, Konrad, 3,653,211.
- Scheublein, William A.; Fister, Louis P.; Fitch, Lawrence H.; and Jeney, George K., to Moog Industries, Inc. Vehicle torsion spring suspension assembly. 3,658,312, 4-25-72, Cl. 267-57.
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- Scheuer, Nicholas G.: *See—*
- Mielback, Roger L.; and Scheuer, Nicholas G., 3,686,695.
- Scheuer, Raymond I.: *See—*
- Gray, Don N.; and Scheuer, Raymond I., 3,632,365.
- Thomas, Richard E.; Florence, Robert T.; Dalal, Rustom H.; and Scheuer, Raymond I., 3,632,364.
- Scheuerecker, Friedrich; and Schlagbauer, Johann, to Rohde & Schwarz. Directional-beam antenna. 3,686,673, 8-22-72, Cl. 343-807.000.
- Scheuerer, Guenter: *See—*
- Becke, Friedrich; Fischer, Adolf; Hagen, Helmut; and Scheuerer, Guenter, 3,668,260.
- Scheuerle, Willy. Driving device for heavy motor-trucks. 3,693,741, 9-26-72, Cl. 180-23.000.
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- Scheurer, Guenter: *See—*
- Glandorf, Kaete; and Scheurer, Guenter, 3,694,219.
- Scheurle, Bruno; and Kelker, Kans, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. p-Alkoxyphenyl esters of 4-capronyloxy benzoic acid. 3,689,525, 9-5-72, Cl. 260-473.00r.
- Scheurman, Clarence, III: *See—*
- McHugh, Neil Martin; Scheurman, Clarence, III; and Schulerud, Albert Lyle, 3,703,772.
- Schevey, William R.: *See—*
- Page, Walter; Schevey, William R.; and Vander Mey, John E., 3,655,533.
- Schevey, William R., to Allied Chemical Corporation. Electrodeposition of bright nickel. 3,661,731, 5-9-72, Cl. 204-49.
- Schewe, Millard F.: *See—*
- Laymon, Marvin D.; McCoy, Jerome D.; and Schewe, Millard F., 3,696,369.
- Schewefurth, Hans; and Lambach, Rolf, to Friedrich Uhde GmbH. Device for mixing granular and/or pulverized bulk material. 3,687,420, 8-29-72, Cl. 259-2.000.
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- Schexnayder, Lawrence F., to Caterpillar Tractor Company. Fluid motor control system. 3,654,836, 4-11-72, Cl. 91-448.
- Schey, John A.: *See—*
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- Kusich, Robert A., 3,652,807.
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- Carlson, Emil H.; Hammann, William C.; and Schisla, Robert M., 3,666,827.
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- Bertsch, Hans F.; Schlachtberger, Ottmar; and Graf, Horst, 3,635,013.
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- Nemec, Joseph W.; and Schlaefter, Francis W., 3,637,835.
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- Meininger, Fritz; and Schlafer, Ludwig, 3,637,649.
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- Furst, Stefan, 3,701,267.
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- Peschl, Ervin; Malasek, Frantisek; and Kolar, Vladimir, 3,681,944.
- Peschl, Ervin; and Skrepek, Jan, 3,688,524.
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- Reiners, Walter; Pesch, Albert Tho; and Bungter, Karl, 3,693,379.
- Schlaflly, Paul W.: *See—*
- Gano, John W.; and Schlaflly, Paul W., 3,666,125.
- Schlag, Siegfried: *See—*
- Staiger, Bruno; Schlag, Siegfried; and Hartl, Walter, 3,656,218.
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- Scheuerecker, Friedrich; and Schlagbauer, Johann, 3,686,673.
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- Nelson, Kenneth R., 3,673,831.
- Schlage, Ernest L., 3,664,007.
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- Schlain, David: *See—*
- McCawley, Frank X.; Wyche, Charlie; and Schlain, David, 3,697,390.
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- Kabas, Guglielmo; and Schlapfer, Hans, 3,658,833.
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- Schlatter, Gerald Lance: *See—*
- Miller, Charles Eveleigh; and Schlatter, Gerald Lance, 3,677,067.
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- Schlatter, James H.: *See—*
- Road, Richard A.; and Schlatter, James H., 3,657,651.
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- Mirviss, Stanley B.; and Schlechter, Melvin M., 3,682,905.
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- Anton, Eckhard; and Schlechtriem, Werner, 3,631,888.
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- Garrison, John W.; and Schlef, Charles L., 3,650,789.
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- Blose, Werner, 3,685,231.
- Paton, Douglas E., 3,656,202.
- Smoot, Edward H., 3,707,016.
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- Weaver, John L.; and Smoot, Edward H., 3,656,260.
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- Schlegel, Wallace Albert: *See—*
- Alles, David Shepard; Elek, John William; Nevis, Benjamin Edward; and Schlegel, Wallace Albert, 3,636,849.
- Schlegel, William L., to Komline-Sanderson Engineering Corporation. Articulated connector. 3,701,432, 10-31-72, Cl. 210-401.000.
- Schlegel, Wolfgang: *See—*
- Klaui, Heinrich; and Schlegel, Wolfgang, 3,637,772.
- Schleich, Fritz: *See—*
- Hoffmeister, Dietrich; and Schleich, Fritz, 3,657,085.
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- Cayle, Theodore; and Schleich, Hans, 3,684,710.
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- Lee, Richard G.; Schleicher, Allen K.; Panzer, Max L.; and Brock, John E., 3,650,566.
- Schleicher, Harold E., to Arrow-Hart, Inc. Electromagnetically releasable latching means with floating latch member. 3,634,795, 1-11-72, Cl. 335-170.
- Schleicher, Lowell: *See—*
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- Schleifenbaum, Karl, to Meteor-Siegen Apparatebau Paul Schmeck G.m.b.H. Paper feed mechanism for photocopying machine. 3,639,055, 2-1-72, Cl. 355-29.
- Schleifer, Klaus: See—
Zott, Ronald; and Schleifer, Klaus, 3,651,264.
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Glasow, Gunthard; Grosse, Klaus; Hykel, Knut; Schleifer, Werner; Karste, Eberhard; and Kliehe, Helmut, 3,696,766.
- Schlein, Seymour M., to Fanner Manufacturing Company, The. Location marker. 3,683,843, 8-15-72, Cl. 116-114.000.
- Schleinkofer, Rudi W.: See—
Luthi, Oscar; and Schleinkofer, Rudi W., 3,690,571.
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Imredy, Denis S.; and Schleipman, Fred P., 3,682,159.
- Schlemmer, Alfred H.; and Pearson, Melvin A., to Hamill, Ralph. Feeder and jacket applicator. 3,633,333, 1-11-72, Cl. 53-182.
- Schlemmer, Glen R.: See—
Glascock, James T.; and Schlemmer, Glen R., 3,645,426.
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- Schlender, Blair H.: See—
Barnes, Charles M.; and Schlender, Blair H., 3,662,370.
- Schlenker, Theodore R.: See—
Doran, Leo F.; and Schlenker, Theodore R., 3,673,817.
- Schlenz, Erich: See—
Rosch, Helmut; Neburg, Herbert; and Schlenz, Erich, 3,689,858.
- Schlenz, Frieda: See—
Rosch, Helmut; Neburg, Herbert; and Schlenz, Erich, 3,689,858.
- Schleppinghoff, Bernhard: See—
Brandt, Hans-Walter; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; Schleppinghoff, Bernhard; and Schnuchel, Gunther, 3,655,806.
- Schleppinghoff, Bernhard; Scherb, Helmut; and Puxbaumer, Hans, to Erdolchemie Gesellschaft mit beschränkter Haftung. Recovering cyclopentadiene values from C₅-fractions. 3,674,883, 7-4-72, Cl. 260-666.00a.
- Schlereth, Fritz H.: See—
Hesler, Joseph P.; McFadyen, Robert J.; and Schlereth, Fritz H., 3,654,563.
- Schlesinger, Kurt, to General Electric Company. High resolution electron optic system for camera tubes. 3,666,985, 5-30-72, Cl. 315-31.000.
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- Schlesinger, Robert J.; and Raabe, George A., to Schlesinger, Robert J., mesne. System for generating a hologram. 3,647,959, 3-7-72, Cl. 178-7.87.
- Schlesinger, Robert J., mesne: See—
Schlesinger, Robert J.; and Raabe, George A., 3,647,959.
- Schlesinger, Robert M. Catheter support. 3,702,612, 11-14-72, Cl. 128-350.00r.
- Schletzbaum, John Wayne; and Rodeghiero, Reno Antonio, to Deere & Company. Pressure-modulated hydraulic control valve. 3,667,496, 6-6-72, Cl. 137-116.300.
- Schleupen, Richard: See—
Junker, Jürgen; and Schleupen, Richard, 3,664,945.
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Lichtenvort, Uwe; Kluge, Johannes; and Schleyer, Meinolf, 3,704,355.
- Schleyer, Paul von R., to Union Carbide Corporation. Hexacyclotetradecanes. 3,673,268, 6-27-72, Cl. 260-666.0py.
- Schlicht, Raymond C.; Eckert, George W.; and Von Allmen, Ronald W., to Texaco, Inc. Fuel composition. 3,704,107, 11-28-72, Cl. 44-58.000.
- Schlichte, Max, to Siemens Aktiengesellschaft. Process and circuit arrangement for the transmission of message signals, in particular PCM message signals, from a transmission station to a receiving station. 3,686,442, 8-22-72, Cl. 179-15.0b.
- Schlichte, Max, to Siemens Aktiengesellschaft. PCM time division multiplex process. 3,688,049, 8-29-72, Cl. 179-15.0aq.
- Schlichter, Stephen L.: See—
Bergeron, Robert J.; and Schlichter, Stephen L., 3,700,466.
- Schlichter, William L., to Ford Motor Company. Door latch assembly. 3,666,305, 5-30-72, Cl. 292-48.000.
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- Schlichtig, Ralph C. Thermally powered diaphragm pump system for heat transfer. 3,699,779, 10-24-72, Cl. 62-324.000.
- Schlichting, Hans L.: See—
Weil, Edward D.; and Schlichting, Hans L., 3,639,487.
- Schlickeiser, Klaus, to Buhmann, Walter, Dipl.-Ing. Elektro-Apparatebau GmbH. Information retrieving arrangement. 3,652,996, 3-28-72, Cl. 340-172.5.
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- Schlicker, Volker: See—
Merkle, Alfred; Schlicker, Volker; and Wrobel, Gunter, 3,703,221.
- Peter, Kurt; Huhne, Gerd; Kauer, Harald; Overlach, Knud; and Schlicker, Volker, 3,638,212.
- Schlieben, Ernest William, to RCA Corporation. Bookbinding. 3,685,857, 8-22-72, Cl. 281-26.000.
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- Schliebs, Reinhard, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of dimethylthiophosphite or of organothiophosphonous acid O-monomethyl ester. 3,655,835, 4-11-72, Cl. 260-983.
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- Schlieckmann, Alfred: See—
Zippel, Bernd; and Schlieckmann, Alfred, 3,669,595.
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- Schliemann, Louis F.; and Borgos, Jerome E. Foldable etagere. 3,648,627, 3-14-72, Cl. 108-111.
- Schlienger, Max P. Centrifugally cleaned arc furnace electrode wheel. 3,649,733, 3-14-72, Cl. 13-18.
- Schlienger, Max P. Arc furnace electrode wheel mounting system. 3,651,238, 3-21-72, Cl. 13-9.
- Schlienger, Max P. Point cooled rotating wheel electrode. 3,651,239, 3-21-72, Cl. 13-18.
- Schlienger, Max P. Arc positioning system for rotating electrode wheel arc furnace. 3,683,094, 8-8-72, Cl. 13-9.000.
- Schliep, Hans-Joachim: See—
Koppe, Volker; Schulte, Karl; Schliep, Hans-Joachim; and Schorscher, Ernst, 3,649,631.
- Schlievert, Lester R. Seed suspending apparatus. 3,675,601, 7-11-72, Cl. 111-51.000.
- Schliffke, Warner F.: See—
Frey, Karl A.; and Schliffke, Warner F., 3,685,216.
- Schlight, Raymond C., to Texaco Inc. Friction reducing agent for lubricants. 3,702,824, 11-14-72, Cl. 252-49.800.
- Schlimgen, Lawrence: See—
Zehr, Richard M.; Mott, James; and Schlimgen, Lawrence, 3,665,399.
- Schlimme, Ewald, to Bosch, Robert, G.m.b.H. Electronic control system for shaping the fuel-speed characteristics of an internal combustion engine. 3,665,900, 5-30-72, Cl. 123-32.0ea.
- Schlinger, Warren G.: See—
Dille, Roger M.; and Schlinger, Warren G., 3,643,875.
- Slater, William L.; and Schlinger, Warren G., 3,688,438.
- Schlinger, Warren G.; and Kaufman, Harold C., to Texaco Inc. Manufacture of petroleum coke. 3,673,080, 6-27-72, Cl. 208-131.000.
- Schlinger, Warren G.; Slater, William L.; and Dille, Roger M., to Texaco Inc. Production of reducing gas. 3,694,373, 9-26-72, Cl. 252-373.000.
- Schlink, David J.: See—
Schwarz, Walter K.; and Schlink, David J., 3,680,775.
- Schlink, Laurence J.: See—
Heap, James C.; and Schlink, Laurence J., 3,631,815.
- Schlitt, James J.: See—
Stallman, James E.; Schlitt, James J.; Puetz, Jordan F.; and Arneberg, Don J., 3,643,187.
- Schlitt, Klaus. Soldering gun for one-handed manipulation. 3,707,258, 12-26-72, Cl. 228-52.000.
- Schlitz, Erwin: See—
Fink, Werner; Schlitz, Erwin; and Werner, Gunther, 3,652,137.
- Talebi, Abootaleb; and Schlitz, Erwin, 3,656,815.
- Schlitz, Erwin; Fink, Werner; and Werner, Gunther, to International Telephone and Telegraph Corporation. Antiskid brake system for vehicles. 3,652,136, 3-28-72, Cl. 303-21.
- Schlitz, Erwin; and Fink, Werner, to International Telephone and Telegraph Corporation. Braking system with deceleration derivative control. 3,656,816, 4-18-72, Cl. 303-21.
- Schlitz, Jos., Brewing Company: See—

- Constable, Charles F.; and Risley, Robert F., 3,650,371.
- Constable, Charles F., 3,667,589.
- Pagdin, William Gordon; Smith, Walter F.; Smith, Wayne A.; and Le Tendre, Eugene F., 3,669,244.
- Risley, Robert F.; and Smith, Wayne A., 3,643,781.
- Risley, Robert F., 3,643,782.
- Sauer, Henry, 3,649,993.
- Schlobohm, Roland T., to Shell Oil Company. Lubricant compositions. 3,660,290, 5-2-72, Cl. 252-51.5.
- Schloemann Aktiengesellschaft: See—
Benz, Willi, 3,650,137.
- Boesch, Albert, 3,691,812.
- Bollig, Georg B., 3,661,199.
- Fritz, Manfred, 3,672,242.
- Geipel, Hans; Schulz, Alfred; and Huber, Helmut, 3,646,655.
- Gipperich, Karl, 3,631,959.
- Gipperich, Karl; and Sippel, Egon, 3,648,827.
- Golde, Karl-Heinz; and Simons, Willi, 3,693,960.
- Groos, Horst Hans, 3,651,680.
- Groos, Horst Hans, 3,675,457.
- Hoffmann, Bernd; Bollig, Georg; and Dopfer, Otto, 3,645,805.
- Kaspers, Josef, 3,670,552.
- Knell, Bernhard; Desfossez, Paul; Hess, Walter; and Schulz, Hans-Dieter, 3,638,713.
- Kost, Erwin, 3,648,812.
- Leifeld, Klaus; Wochnik, Josef; and Stoy, Erich, 3,695,082.
- Muller, Willy; and Robra, Helmut, 3,670,557.
- Muller, Willy, 3,695,079.
- Pauels, Heinrich, 3,659,643.
- Pech, Hans Peter, 3,690,631.
- Priebe, Fritz, 3,685,333.
- Schulz, Hans-Dieter, 3,707,181.
- Simons, Willi, 3,638,715.
- Veltjens, Dieter, 3,675,458.
- Schloemer, Karl; Nagel, Otto; Platz, Rolf; and Weitz, Hans Martin, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Recovery of isobutylene from mixtures containing the same and butadiene. 3,657,374, 4-18-72, Cl. 260-677.
- Schlor, Egon; and Duchrau, Herbert, to Daimler-Benz Aktiengesellschaft. Safety installation at a motor vehicle tank. 3,687,159, 8-29-72, Cl. 137-563.000.
- Schlor, Hanshelmut: See—
Schliebs, Reinhard; Schlor, Hanshelmut; and Homeyer, Bernhard, 3,644,598.
- Schlor, Hanshelmut, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of alkyl-thiono-phosphonic acid dichlorides. 3,641,141, 2-8-72, Cl. 260-543.
- Schlor, Hanshelmut; Hammann, Ingeborg; and Homeyer, Bernhard, to Farbenfabriken Bayer Aktiengesellschaft. S-(2-Chloro-2-bromoethyl)-(di) thio-phosphoric and phosphonic acid. 3,641,223, 2-8-72, Cl. 260-961.
- Schlor, Hanshelmut; Hoffmann, Hellmut; Regel, Erik; and Scheinplung, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Trithiophosphoric acid esters. 3,705,930, 12-12-72, Cl. 260-964.000.
- Schlosburg, Burton E.: See—
Frey, Alexander H., Jr.; Schlosburg, Burton E.; and Tygielski, Ralph E., 3,648,237.
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Muzyka, Donald R.; and Schlosser, Donald K., 3,705,827.
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Beccone, John Peter; Kurokawa, Kaneyuki; and Schlosser, Wolfgang Otto, 3,656,069.
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Eicken, Heinz Ten, 3,659,692.
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Newman, Douglas A.; and Schlotzhauer, Allan T., 3,669,713.
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Jager, Karel; Schlotzka, Jaroslava; and Kober, Zdenek, 3,659,411.
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Grandel, Leonard F.; Schluckebier, Floyd A.; and Kimberlin, Dan R., 3,643,981.
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Kimberlin, Dan R.; and Schluckerbier, Floyd A., 3,648,490.
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Herubel, Jean Frederic, 3,636,591.
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Glathe, Wolfgang, 3,678,294.
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Hugonin, Gerald H., 3,683,188.
- Planche, Jean, 3,685,158.
- Schlumberger Technology Corporation: See—
Allaud, Louis A., 3,683,688.
- Anderson, Ronald A.; and Whitten, Frank R., 3,653,436.
- Antkiw, Stephen; and Tittman, Jay, 3,633,030.
- Antkiw, Stephen, 3,688,115.
- Beene, Calvin D., 3,675,950.
- Belorgey, Roger, 3,661,205.
- Berryman, William O., 3,658,140.
- Bonnet, Jean-Loup, 3,678,760.
- Brieger, Emmet F., 3,633,674.
- Brieger, Emmet F., 3,659,658.
- Brunn, Theodore F., 3,680,042.
- Cram, Milton E., 3,638,106.
- Cubberly, Walter E., Jr., 3,673,864.
- Davis, Billy W., 3,675,193.
- Dodson, A. C., 3,636,875.
- Frentrop, Arthur H.; and Wahl, John S., 3,662,179.
- Graff, Jerry C., 3,684,042.
- Hugonin, Gerald H., 3,684,887.
- Ingram, John D., 3,697,937.
- Kerr, Wayne L., 3,685,004.
- Kisling, James W., III, 3,643,505.
- Kisling, James W., III, 3,653,439.
- Kisling, James W., III, 3,662,833.
- Kisling, James W., III, 3,674,091.
- Kisling, James W., III, 3,685,599.
- Kisling, James W., III; and Nutter, Benjamin P., 3,690,122.
- LaFleur, Clovis L., 3,696,884.
- LaFont, Guy, 3,707,700.
- Laumon, C. P., II, 3,695,368.
- Laumon, C. P., II, 3,707,195.
- Lee, Jimmy G., 3,676,842.
- Mc Gill, Howard L., 3,645,334.
- McGill, Howard L., 3,631,924.
- McGill, Howard L., 3,695,352.
- Miller, Gerald K., 3,648,278.
- Mullins, Albert A., 3,687,196.
- Nicolas, Yves; and Bonnet, Jean-Loup, 3,664,416.
- Nicolas, Yves, 3,705,979.
- Nutter, Benjamin P., 3,631,925.
- Nutter, Benjamin P., 3,662,825.
- Nutter, Benjamin P., 3,685,598.
- Nystrom, Horace A., 3,675,478.
- Owens, Nevel G., 3,650,325.
- Owens, Nevel G., 3,666,011.
- Owens, Nevel G., 3,679,812.
- Regat, Charles Y., 3,706,025.
- Schafer, Clifford O., 3,634,865.
- Schuster, Nick A., 3,638,105.
- Schuster, Nick A., 3,691,518.
- Schuster, Nick A., 3,706,340.
- Schwartz, Robert J., 3,673,559.
- Tittman, Jay; Nelligan, William B.; Wahl, John S.; and Sherman, Harold, 3,654,467.
- Tixier, Maurice P., 3,638,484.
- Tompkins, David R., 3,683,187.
- Tompkins, David T., 3,683,186.
- Urbanosky, Harold J., 3,664,421.
- Urbanosky, Harold J., 3,674,090.
- Vermette, Clifford, 3,670,185.
- Volkel, George D.; and Cram, Milton E., 3,701,006.

- Warren, John P., 3,691,456.
 Whitfill, William A., Jr., 3,640,181.
 Young, David E., 3,631,926.
 Young, David E., 3,631,927.
 Young, David E.; Kisling, James W., III; and Nutter, Benjamin P., 3,662,826.
 Young, David E., 3,662,834.
 Schlumbom, Peter; and Gordon, David A., to Geigy Chemical Corporation. Copolymers of halfesters of maleic anhydride and 2-alkoxypropene. 3,635,916, 1-18-72, Cl. 260-78.5.
 Schlumbom, Peter Christoph: *See—*
 Regenass, Franz; Schlumbom, Peter Christoph; and Heller, Hansjörg, 3,669,936.
 Schlumpf, Arthur A.: *See—*
 Morrison, Richard J.; Schlumpf, Arthur A.; and Martino, Albert J., 3,683,450.
 Schlunk, Rainer W.: *See—*
 Lippitt, David L.; and Schlunk, Rainer W., 3,660,256.
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 Schlunke, Jürgen: *See—*
 Junk, Dieter; Schlunke, Jürgen; and Boixen, Heinz, 3,672,018.
 Schlunke, Jürgen, to Kleinewefers, Joh., Sohne. Protective shield for use at the bite of rollers for paper and textile calendars. 3,665,846, 5-30-72, Cl. 100-162.
 Schlunke, Jürgen; and Junk, Dieter, to Kleinewefers, Joh., Sohne Maschinenfabrik. Smoothing ruler for paper glazing calendars. 3,667,380, 6-6-72, Cl. 100-161.
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 Schluntz, Gary L.: *See—*
 Vlach, John J.; Baker, James B.; Burnham, Edward H.; Lavander, Edward J.; and Schluntz, Gary L., 3,649,114.
 Schlup & Cie, S.A.: *See—*
 Lederrey, Marc; and Grenchen, Canton, 3,640,065.
 Schlupp, Rudolf: *See—*
 Dietrich, Walter; and Schlupp, Rudolf, 3,634,823.
 Schlusnus, Karl-Heinz: *See—*
 Bottcher, Wolfgang; Kopineck, Hermann-Josef; Schlusnus, Karl-Heinz; and Sommerkorn, Gernot, 3,685,348.
 Schlusser, Hans-Joachim, to Henkel & Cie G.m.b.H. Inhibitor for aluminum in alkaline solutions. 3,672,821, 6-27-72, Cl. 21-2.700.
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 Schluter, Heinz; and Schöne Meyer, Hilmar, to International Standard Electric Corporation. Common control telephone switching system employing added data wire. 3,660,612, 5-2-72, Cl. 179-18.
 Schluter, Kurt: *See—*
 Widmann, Dietrich; Kappelmeyer, Rudolf; Schluter, Kurt; and Steggewentz, Hermann, 3,644,134.
 Schluter, Wolfram, to Armstrong Cork Company. Sub-ceiling for buildings. 3,696,571, 10-10-72, Cl. 52-144.000.
 Schlutz, Charles A.; and Bellamy, David, Jr., to Baxter Laboratories, Inc. Rotary fluid seal and distribution means for centrifuges. 3,672,564, 6-27-72, Cl. 233-26.000.
 Schmadel, Edmund: *See—*
 Stimberg, Hans-Joef; Galinke, Joachim; and Schmadel, Edmund, 3,691,082.
 Schmadel, Edmund, to Henkel & Cie G.m.b.H. Washing and cleansing agents with polyamides having improved dirt-carrying capacity. 3,663,444, 5-16-72, Cl. 252-99.
 Schmaeng, John F., to Beloit Corporation. Fluid control of headbox slice opening. 3,645,843, 2-29-72, Cl. 162-347.
 Schmalbach-Lubeca-Werke: *See—*
 Baumeier, Martin; and Neben, Luebeck Wilhelm, 3,693,827.
 Schmalbach-Lubeca-Werke Aktiengesellschaft: *See—*
 Fahlbush, Hans Joachim, 3,674,171.
 Richter, Wolfgang Max Egon; Lab, Edgar; and Sieblist, Hans Werner, 3,668,959.
 Schmalldienst, Peter: *See—*
 Struber, Gunter; and Schmalldienst, Peter, 3,704,701.
 Schmalfeld, Paul: *See—*
 John, Willibald; Schmalfeld, Paul; Lange, Paul; and Rammler, Roland, 3,700,564.
 Rammler, Roland; and Schmalfeld, Paul, 3,703,442.
 Schmalfeld, Paul; Sommers, Hans; and Janssen, Heinrich, to Metallgesellschaft Aktiengesellschaft and Ruhrgas Aktiengesellschaft. Retort system for oil shales and the like. 3,655,518, 4-11-72, Cl. 202-108.
 Schmalfeld, Paul; Janssen, Heinrich; Bock, Burkhard; Peters, Werner; and Ahland, Erwin, to Metallgesellschaft Aktiengesellschaft and Bergwerks-Verban. Process of briquetting fine-grained cokes with caking coal in a plastic state. 3,674,449, 7-4-72, Cl. 44-0.00r.
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 Schmall, Margrit (nee Mutscher): *See—*
 Schmidt, Claus, 3,651,505.
 Schmank, Horst W.; and Gross, Benjamin H., to Chattem Chemicals; division of Chattem Drug & Chemical Company. Monoglycol ether derivatives of aluminum halides. 3,639,664, 2-1-72, Cl. 260-448.
 Schmauder, Theodor: *See—*
 Gretschel, Herbert; Schneider, Walter; and Schmauder, Theodor, 3,645,211.
 Schmaus, Robert Leslie, to Parker-Hannifin Corporation. Hydraulic press. 3,647,332, 3-7-72, Cl. 425-78.
 Schmeck, Robert E.: *See—*
 Garfinkle, Marvin E.; Schmeck, Robert E.; and Tangard, Einar W., 3,633,693.
 Schmeckenbecher, Arnold F.: *See—*
 Hall, David W.; Lindholm, John A.; Romankiw, Lubomyr T.; and Schmeckenbecher, Arnold F., 3,702,263.
 Oktay, Sevgin; and Schmeckenbecher, Arnold F., 3,706,127.
 Schmedding, Herbert. Method of manufacturing a block bottom bag. 3,690,221, 9-12-72, Cl. 93-35.0rb.
 Schmedes, Robert; and Nelson, John M., to Bernzomatic Corporation. Insecticidal jet fogger. 3,656,254, 4-18-72, Cl. 43-129.
 Schmeer, Arline Catherine. Clam extract effective against sarcoma 180 and krebs 2 carcinoma in mice. 3,655,875, 4-11-72, Cl. 424-106.
 Schmeisser, Manfred H.: *See—*
 Lesser, Herbert F.; Schmeisser, Manfred H.; and Kamp, Artur F., 3,686,881.
 Schmeling, Gerhard: *See—*
 Peters, Werner; Luther, Horst; Langhoff, Josef; Abel, Otto; and Schmeling, Gerhard, 3,661,722.
 Schmeling, Per Erik, to Aktiebolaget Atomenergi. Apparatus for producing gaseous fission products, particularly Xe-133. 3,680,284, 8-1-72, Cl. 55-208.000.
 Schmelzer, Hans-Georg: *See—*
 Golitz, Hans Dietrich; Degener, Eberhart; Oertel, Gunter; Schmelzer, Hans-Georg; and Simmler, Walter, 3,657,303.
 Golitz, Hans Dietrich; Degener, Eberhart; Oertel, Gunter; Schmelzer, Hans-Georg; and Simmler, Walter, 3,676,478.
 Schmelzer, Hans-Georg; Gertel, Gunter; Degener, Eberhart; and Dahm, Manfred, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of low molecular weight mono- and polyisocyanates containing tertiary amino groups. 3,644,490, 2-22-72, Cl. 260-482.
 Schmenzfeier, Otto K., to Shell Oil Company. Hydraulic sonic oscillator. 3,678,803, 7-25-72, Cl. 91-39.000.
 Schmerling, Louis: *See—*
 Vesely, Jerome A.; and Schmerling, Louis, 3,678,104.
 Schmerling, Louis, to Universal Oil Products Company. Preparation of N-alkylcarboxamides. 3,634,510, 1-11-72, Cl. 260-561.
 Schmerling, Louis, to Universal Oil Products Company. Alkylation of aromatic compounds. 3,637,883, 1-25-72, Cl. 260-671.
 Schmerling, Louis, to Universal Oil Products Company. Process for the preparation of organic halides and organic ethers. 3,641,159, 2-8-72, Cl. 260-611.
 Schmerling, Louis; and Dombro, Robert A., to Universal Oil Products Company. Preparation of alcohols. 3,641,165, 2-8-72, Cl. 260-618.
 Schmerling, Louis, to Universal Oil Products Company. Isomerization of alkyl halides. 3,644,547, 2-22-72, Cl. 260-658.
 Schmerling, Louis, to Universal Oil Products Company. Preparation of ethers. 3,649,697, 3-14-72, Cl. 260-611.
 Schmerling, Louis, to Universal Oil Products Company. Preparation of haloalkanes. 3,649,698, 3-14-72, Cl. 260-648.
 Schmerling, Louis; and Dombro, Robert A., to Universal Oil Products Company. Preparation of alcohols. 3,652,684, 3-28-72, Cl. 260-617.
 Schmerling, Louis, to Universal Oil Products Company. Alkylation process. 3,655,797, 4-11-72, Cl. 260-671.
 Schmerling, Louis, to Universal Oil Products Company. Preparation of tri- and tetrahydro-substituted aromatic compounds. 3,660,473, 5-2-72, Cl. 260-515.
 Schmerling, Louis, to Universal Oil Products Company. Preparation of sulfides and sulfoxides. 3,660,496, 5-2-72, Cl. 260-607.
 Schmerling, Louis, to Universal Oil Products Company. Metal salts of halo-substituted polyhydricpolycyclicdicarboxylic acids. 3,678,087, 7-18-72, Cl. 260-435.00r.
 Schmerling, Louis, to Universal Oil Products Company. Allylation or benzylation of aromatic compounds. 3,678,122, 7-18-72, Cl. 260-671.00a.
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 Schmermund, Alfred. Control arrangements for an automatic machine tool. 3,675,537, 7-11-72, Cl. 90-13.900.
 Schmermund, Alfred. Arrangement for testing cigarettes. 3,677,068, 7-18-72, Cl. 73-41.000.
 Schmermund, Alfred. Machines for wrapping block-line articles. 3,693,316, 9-26-72, Cl. 53-52.000.

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 Schmermund, Alfred. Control arrangements for an automatic machine tool. 3,702,574, 11-14-72, Cl. 90-13.00b.
 Schmiersal, Larry J.: *See—*
 Johnson, William E.; and Schmiersal, Larry J., 3,673,460.
 Schmiersal, Larry J.; Miavec, Joseph L.; Pierce, Edward W.; and Wojcik, David S., to Owens-Illinois, Inc. Binary addressable magnetically multiplex discharge manipulation system for multiple gaseous discharge display/memory panel. 3,665,455, 5-23-72, Cl. 30-343.
 Schmiersal, Larry J., to Owens-Illinois, Inc. Gas discharge display and memory panel having addressing and interface circuits integral therewith. 3,668,688, 6-6-72, Cl. 340-324.00r.
 Schmiersal, Larry J., to Owens-Illinois, Inc. Gas discharge display/memory panels and selection and addressing circuits therefor. 3,684,918, 8-15-72, Cl. 315-169.00r.
 Schmialek, Peter: *See—*
 Ruegg, Rudolf; and Schmialek, Peter, 3,665,040.
 Schmick, Hayes J., to Phillips Fibers Corporation. Steam crimping of yarn. 3,643,298, 2-22-72, Cl. 28-1.4.
 Schmid & Wezel, Firma: *See—*
 Wezel, Hans Georg, 3,646,675.
 Schmid, Adolf; and Kuhn, Rudolf, to Martini-Buchbindereimaschinenfabrik AG. Book sheet testing apparatus. 3,678,740, 7-25-72, Cl. 73-93.000.
 Schmid, Albrecht: *See—*
 Reischer, Josef; and Schmid, Albrecht, 3,691,914.
 Schmid, Alfred: *See—*
 Boke, Reinhard; Schmid, Alfred; and Wilke, Heinz, 3,643,326.
 Schmid, Bruce K.: *See—*
 Bull, Willard C.; and Schmid, Bruce K., 3,640,816.
 Schmid, Dieter: *See—*
 Edl, Wolfgang; Meyer, Heinz W.; and Schmid, Dieter, 3,639,370.
 Meyer, Heinz; Schmid, Dieter; Schwarzer, Hans; and Twittenhoff, Hansjoachim, 3,644,612.
 Schmid, Donald E., to Republic Packaging Corporation. Pallet. 3,683,823, 8-15-72, Cl. 108-56.000.
 Schmid, Erich: *See—*
 Graf, Wilfried; and Schmid, Erich, 3,646,022.
 Schindler, Walter; and Schmid, Erich, 3,646,037.
 Schindler, Walter; and Schmid, Erich, 3,686,402.
 Schindler, Walter; Schmid, Erich; and Zust, Armin, 3,699,104.
 Schindler, Walter; Schmid, Erich; and Zust, Armin, 3,699,107.
 Schmid, Ernest Jakal, to Edouard Dubied & Cie S.A. Lathes. 3,650,166, 3-21-72, Cl. 82-32.
 Schmid, Frederick; and Viechnicki, Dennis J., to United States of America, Army. Apparatus and method for unidirectionally solidifying high temperature material. 3,653,432, 4-4-72, Cl. 165-61.
 Schmid, Guenther: *See—*
 Leibfried, Wolfgang; Schmid, Guenther; Ortlieb, Alfred; Hartmann, Horst J.; and Tittes, Eberhard, 3,648,915.
 Schmid, Gunther, to Bosch, Robert, G.m.b.H. Apparatus for making hollow plastic articles. 3,650,656, 3-21-72, Cl. 425-387.
 Schmid, Hans; Feldhoff, Heinrich; Martin, Wolfgang; Fessmann, Heinz; and Hahn, Edeleried, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process and apparatus for crimping yarns and the like. 3,640,063, 2-8-72, Cl. 57-140.
 Schmid, Hans, to Mono-Sport GmbH. Ski. 3,685,846, 8-22-72, Cl. 280-11.13w.
 Schmid, Heinrich, vorm. Schmid & Sohn: *See—*
 Rosch, Jakob, 3,645,395.
 Schmid, Hermann: *See—*
 Boeters, Karl-Ernst; Streit, Klaus; Conzelmann, Gerhard; Schmid, Hermann; and Fleischer, Hans-Joachim, 3,662,720.
 Mitchell, Roy O.; and Schmid, Hermann, 3,696,305.
 Schmid, Hermann, to General Electric Company. Limited average voter circuitry. 3,686,493, 8-22-72, Cl. 235-193.000.
 Schmid, John H.; and Thomas, Arthur E., to Zurn Industries, Inc. Water closet. 3,638,244, 2-1-72, Cl. 4-17.
 Schmid, Julius, Inc.: *See—*
 Gordon, Harry W.; and Fingado, Gustav, 3,660,242.
 Gordon, Harry W., 3,664,341.
 Schmid, Karl: *See—*
 Maeder, Erwin; Anliker, Rudolf; Schmid, Karl; and Siegrist, Adolf Emil, 3,650,973.
 Maeder, Erwin; Anliker, Rudolf; Schmid, Karl; and Siegrist, Adolf Emil, 3,666,683.
 Schmid, Leopold F. Rack steering mechanism with hydraulic or pneumatic steering assistance, particularly for motor vehicles. 3,638,750, 2-1-72, Cl. 180-79.2.
 Schmid, Leopold F. Ball joint, especially for the steering linkage of motor vehicles. 3,650,552, 3-21-72, Cl. 287-90.
 Schmid, Leopold F. Synchronous universal coupling. 3,668,893, 6-13-72, Cl. 64-21.000.
 Schmid, Leopold F. Steering linkage for motor vehicles. 3,689,100, 9-5-72, Cl. 280-95.00r.
 Schmid, Norbert: *See—*
 Richter, Gerhard; and Schmid, Norbert, 3,640,105.
 Schmid, Richard O.; and Alda, Harold, to Union Carbide Corporation. Palletized packaging of cylindrical objects. 3,638,790, 2-1-72, Cl. 206-655.
 Schmid, Rolf: *See—*
 Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,655,817.
 Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,674,746.
 Lohse, Friedrich; Schmid, Rolf; Fisch, Willy; and Batzer, Hans, 3,678,009.
 Schmid, Rolf; Bucher, Ingrid; Fisch, Willy; and Batzer, Hans, to Ciba Limited. Thermocurable polyester-diepoxy compositions. 3,641,194, 2-8-72, Cl. 260-835.
 Schmid, Rolf; Lohse, Friedrich; Fisch, Willy; and Batzer, Hans, to Ciba Limited. Adducts, containing epoxide groups, from polyepoxide compounds and acid polyesters of aliphatic-cycloaliphatic dicarboxylic acids. 3,642,674, 2-15-72, Cl. 260-22.
 Schmid, Rolf; Lohse, Friedrich; Fisch, Willy; and Batzer, Hans, to Ciba Limited. Storage-stable, heat-curable soluble and fusible precondensates based on polyepoxide compound acid polyesters and anhydride curing agents. 3,642,938, 2-15-72, Cl. 260-835.
 Schmid, Rolf; Lohse, Friedrich; and Batzer, Hans, to Ciba-Geigy AG. Carboxy terminated polyamides and diepoxides. 3,678,127, 7-18-72, Cl. 260-830.00p.
 Schmid, Rudolf, to Siemens Aktiengesellschaft. Ferromagnetic storage cores and process of making the same. 3,637,504, 1-25-72, Cl. 252-62.61.
 Schmidbauer, Hans. Apparatus for cleaning small parts. 3,656,319, 4-18-72, Cl. 64-23.6.
 Schmidhammer, Ludwig: *See—*
 Fruhwirth, Otto; and Schmidhammer, Ludwig, 3,647,895.
 Schmidhammer, Ludwig, to Wacker-Chemie G.m.b.H. Metal degreasing agents. 3,642,645, 2-15-72, Cl. 252-162.
 Schmidhauser, Rolf, to Hewlett-Packard Company. Voltage to pulse-ratio converter. 3,639,843, 2-1-72, Cl. 328-116.
 Schmidl, Ernst: *See—*
 Boldingh, Jan; Heslinga, Lammert; Schmidl, Ernst; and Syrovataka, Rudolf, 3,686,127.
 Schmidlin, Albertus E., to TPI & Company. Control device for a reciprocating machine. 3,696,709, 10-10-72, Cl. 91-3.000.
 Schmidlin, Fred W., to Xerox Corporation. Lift off electrode. 3,684,364, 8-15-72, Cl. 355-3.000.
 Schmidlin, Hans. Window unit. 3,641,705, 2-15-72, Cl. 49-256.
 Schmidlin, Raymond J.: *See—*
 Mignone, Albert E.; Miller, Donald J.; and Schmidlin, Raymond J., 3,631,800.
 Miller, Donald J.; and Schmidlin, Raymond J., 3,649,005.
 Miller, Donald J.; and Schmidlin, Raymond J., 3,664,260.
 Schmidt, Adrian J.: *See—*
 Silver, Robert L.; and Schmidt, Adrian J., 3,669,298.
 Schmidt, Albert F., to Ressorts Du Nord S.A. Tap. 3,648,971, 3-14-72, Cl. 251-252.
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Schmidt, Ethan R.: *See*—
Scheffel, John W.; Fischer, Paul W.; and Schmidt, Ethan R., 3,684,012.
Schmidt, Felix Helmut: *See*—
Stork, Harald; and Schmidt, Felix Helmut, 3,645,692.
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Bruggeman, Frans; and Schmidt, Fernand, 3,690,301.
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De Lano, Don L.; and Schmidt, Francis C., 3,646,499.
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Matthaus, Gunther; and Schmidt, Fritz, 3,657,467.
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Zieg, Wilhelm; Schmidt, Georg; Hauck, Edgar; Massell, Ingo; and Greubel, Gustav, 3,635,111.
Schmidt, George V.: *See*—
Bunker, James F.; Poland, James E.; Sayell, Emerson H.; and Schmidt, George V., 3,697,329.
Schmidt, Gerald W.: *See*—
Jones, Lawrence Temple; Schmidt, Gerald W.; and Smith, Jay, III, 3,640,019.
Smith, Jay, III; Schmidt, Gerald W.; and Jones, Lawrence T., 3,701,216.
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Fink, Hans-Ferd; Koerner, Gotz; Rossmly, Gerd; and Schmidt, Gunter, 3,655,554.
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Fernholz, Hans; Schmidt, Hans-Joachim; and Wunder, Friedrich, 3,670,014.
Hornig, Lothar; Fernholz, Hans; Schmidt, Hans-Joachim; Wunder, Friedrich; and Quadflieg, Therese, 3,658,888.
Schmidt, Hans-Robert: *See*—
Wiesner, Max; Sonne, Herbert; and Schmidt, Hans-Robert, 3,653,604.
Schmidt, Harry: *See*—
Doring, Wolfgang; Frenzel, Bertram; Hentschel, Hans-Dieter; Kemter, Heinz; Mickenautsch, Werner; and Schmidt, Harry, 3,665,732.
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Cavil, David T.; Krueger, William R.; and Schmidt, Henry J., 3,662,243.
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Behrmann, Georg, 3,658,377.
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Behrmann, Georg; and Schubart, Rudolf, 3,651,528.
Schmidt, Karl-Julius: *See*—
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Schmidt, Kranz, & Co., GmbH: *See*—
Hoffmann, Ernst, 3,679,241.
Schmidt, Kurt: *See*—
Nordmann, Harald; and Schmidt, Kurt, 3,665,576.
Schmidt, Louis F.: *See*—
United States of America, National Aeronautics and Space Administration, 3,663,753.
Schmidt, Michael R.: *See*—
Matthews, Ralph W.; Bernhoft, Gerald W.; and Schmidt, Michael R., 3,633,700.
Matthews, Ralph W.; Bernhoft, Gerald W.; and Schmidt, Michael R., 3,670,823.
Schmidt, Morris M.: *See*—
Russ, Bobby L.; and Schmidt, Morris M., 3,655,107.
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Schmidt, Otto Karl: *See*—
Blewitt, Donald Joseph; and Schmidt, Otto Karl, 3,646,943.
Schmidt, Paul: *See*—
Druey, Jean; and Schmidt, Paul, 3,682,918.
Schweizer, Ernst; Schmidt, Paul; and Eichenberger, Kurt, 3,634,427.
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Dixon, Paul H.; and Schmidt, Paul R., 3,688,032.
Schmidt, Peter: *See*—
Keller, Wilhelm; Kallenowski, Peter; and Schmidt, Peter, 3,669,603.
Schmidt, Peter J.: *See*—
Walchle, David L.; and Schmidt, Peter J., 3,670,071.
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Ruhland, Felix H.; and Schmidt, Raymond H., 3,683,991.
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Huthner, Gerhard; Roder, Rolf; and Schmidt, Ulrich, 3,704,954.
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Pondelick, William J.; and Schmidt, Vernon F., 3,645,319.
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Colditz, Armin O.; and Schmidt, Werner, 3,643,067.
Schmidt, Werner Hans: *See*—
Reh, Lothar; Schmidt, Werner Hans; and Rosenthal, Karlheinz, 3,672,069.
Schmidt, Wilhelm: *See*—
Von Roepenack, Adolf; Wuethrich, Hans; and Schmidt, Wilhelm, 3,691,038.
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Kaempgen, Dieter; Schmidt, Willi J.; and Seifried, Walter, 3,653,948.
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Huwylar, Sebastian; and Schmidt-Hatting, Wolfgang, 3,688,559.
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Grundmann, Ekkehard; and Schmidt-Kastner, Gunther, 3,682,776.
Schmidt-Thomee, Georg: *See*—
Mueller, Gerhard; Doerfel, Helmut; and Schmidt-Thomee, Georg, 3,700,751.
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Bauhus, Gunter; and Schmidtchen, Hans, 3,665,774.
Schmidtke, Martin; Rutenauer, Winfried; Penzl, Reinhold; and Vollmer, Brigitte, to Siemens Aktiengesellschaft. Process for reducing transition resistance between two superimposed, conducting layers of a microelectric circuit. 3,646,305, 2-29-72, Cl. 219-5.
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Bergmeister, Eduard; Lieb, Erwin; Schmidt-konz, Christian; and Wiest, Hubert, 3,654,209.
Schmidts, Kurt: *See*—
Schindler, Robert; Schmidts, Kurt; and Wiegell, Wolfgang, 3,685,684.
Schmidt'sche Heissdampf-GmbH: *See*—
Claus, Gerhard; and Herrmann, Helmut, 3,682,241.
Schmied, Rudolf: *See*—
Loliger, Willi; and Schmied, Rudolf, 3,692,468.
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Costa, Charles; Loupere, Andre; Monsel, Philippe; and Schmitt, Bertrand, 3,679,272.
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Kopeck, John C.; Schmitt, Henry O., Jr.; and Tenney, Frederick H., 3,699,892.
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Knirsch, Gunther; and Schmitt, Herrmann, 3,691,489.
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Hackmann, Larry G.; and Schmitt, James L., 3,691,908.
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- Schmitt, William C., to Milwaukee Faucets, Inc. Non-rise valve for faucets and the like. 3,645,289, 2-29-72, Cl. 137-454.2.
- Schmitt, William C., to Milwaukee Faucets, Inc. Faucet mounting means. 3,669,141, 6-13-72, Cl. 137-359.
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- Schmitz, Henry, to Bristol-Myers Company. Kasugamycin substituted antibacterial agents. 3,647,779, 3-7-72, Cl. 260-210.
- Schmitz, Josef: See—
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- Schmitz, Joseph F.; and Hilmanowski, James R., to Whirlpool Corporation. Vacuum cleaner nozzle. 3,633,241, 1-11-72, Cl. 15-364.
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- Schmitz, Robert D., to Hodges Chemicals Company. Decorative panel. 3,700,533, 10-24-72, Cl. 161-5.000.
- Schmitz, Rudolf: See—
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Gruber, Hermann; and Schmitz-Josten, 3,686,140.
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- Schmolka, Irving, to BASF Wyandotte Corporation. Stable hydrogen peroxide gels. 3,639,574, 2-1-72, Cl. 424-78.
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Schack, Warren R.; Schmoller, Eugene G.; Shanks, Thomas K.; and Metzger, Philip C., 3,661,073.
- Schmollinger, Tassilo: See—
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Murawski, Kurt; Schmucker, Anton; Sensburg, Bernd; and Lanzendorfer, Josef, 3,662,667.
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- Schmunk, John D., to Hancock Brick & Tile Company, The. Modular cellular conduit assembly. 3,693,664, 9-26-72, Cl. 138-111.000.
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- Schmutzler, David L.; and Schmutzler, John H., to Jadair, Incorporated. Method and apparatus for clarifying liquids. 3,674,145, 7-4-72, Cl. 210-73.000.
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- Schnabel, Wilhelm J.: See—
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Schlegel, Earl S.; and Schnable, George L., 3,644,804.
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- Schneer, Donald M., to Kohlenberger, Inc. Fluid compressor apparatus. 3,692,434, 9-19-72, Cl. 417-360.000.
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- Schneck, James F., to Western Electric Company, Incorporated. Thin-film circuit formation. 3,649,392, 3-14-72, Cl. 156-3.
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Neumann, Hans; and Schnee, Walter, 3,658,013.
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- Schneeberger, Richard F., to Cornell Aeronautical Laboratory, Inc. Rotating cup particle sizing sampling apparatus. 3,678,759, 7-25-72, Cl. 73-432.00s.
- Schneeberger, Robert J.: See—
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Noster, Heinz Gunter; and Schnegelberger, Harald, 3,671,654.
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- Schneider, Arthur F. Self propelled land clearing and plowing apparatus. 3,675,724, 7-11-72, Cl. 172-116.000.
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- Schneider, George, to Amchem Products, Inc. Metal coating rinse composition. 3,647,569, 3-7-72, Cl. 148-6.16.
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 Schmidt, Karl Gunther; Joos, Alfred; Mohr, Gunther; and Schneider, Gerhart, 3,634,443.
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 Scherer, Otto; Hahnle, Reinhard; and Schneider, Gunter, 3,681,422.
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- Schneider, Helmut E., to Werner & Mertz GmbH, Firma. Apparatus for producing an assembly of interconnected and relatively movably displaceable molded parts. 3,685,933, 8-22-72, Cl. 425-109.000.
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- Schneider, Herbert Anton, to Bell Telephone Laboratories, Incorporated. Regenerative circuit comprising complementary transistor pairs. 3,679,914, 7-25-72, Cl. 307-288.000.
- Schneider, Herman, to Components, Incorporated, mesne. Non-polar solid electrolytic capacitor. 3,649,878, 3-14-72, Cl. 317-230.
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 de Jong, Bernulphus A., 3,669,372.
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- Schneider, Johannes; and Pungs, Wolfgang, to Dynamit Nobel Aktiengesellschaft. Polyamide containers of 2,2,4 and/or 2,4,4 trimethyl hexamethylene diamine. 3,646,156, 2-29-72, Cl. 260-857.
- Schneider, John A.; and Moran, John B., to Dow Chemical Company, The. Extreme pressure lubricants containing dialkyl 1,2,2,2-tetrahaloethyl phosphates. 3,640,857, 2-8-72, Cl. 252-49.9.
- Schneider, John M.; and Lennon, John, to Xerox Corporation. Electrostatic charging apparatus. 3,688,107, 8-29-72, Cl. 250-49.500.
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 Bardutzky, Klaus, 3,668,995.
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 Hess, Karl Gunter, 3,673,483.
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 Eberhardt, Toni, 3,706,437.
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 Hurst, George S.; Thennard, Norbert; and Schneider, Karl A., 3,679,902.
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 Muller, Paul C.; and Schneider, Karl H., 3,666,905.
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 Schneider, Wolfgang; and Schneider, Klaus, 3,655,318.
- Schneider, Wolfgang; and Schneider, Klaus, 3,659,979.
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- Strauss, Gunther; Schneider, Klaus; and Jacquemin, Werner, 3,651,153.
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 Gehm, Robert; Kastning, Ernst-Guenther; and Schneider, Kurt, 3,642,665.
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- Reinking, Klaus; Vogel, Helmut; Hechelhammer, Wilhelm; and Schneider, Kurt, 3,676,544.
- Schneider, Lisa: *See—*
 Schneider, Rudi; Schneider, Lisa; and Bauer, Werner, 3,656,193.
- Schneider, Louis: *See—*

- Barabas, Eugene S.; Grosser, Frederick; and Schneider, Louis, 3,677,990.
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 Esser, Harold H.; and Olson, Ralph B., 3,651,656.
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 Bouricius, Willard G.; Carter, William C.; Roth, John P.; and Schneider, Peter R., 3,665,173.
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- Bouricius, Willard G.; Carter, William C.; Roth, John P.; and Schneider, Peter R., 3,665,175.
- Carter, William C.; and Schneider, Peter R., 3,634,665.
- Carter, William C.; and Schneider, Peter R., 3,701,892.
- Schneider, Peter Robert: *See—*
 Bouricius, Willard G.; Carter, William Caswell; Roth, John P.; and Schneider, Peter Robert, 3,665,418.
- Schneider, Raymond C., to Twin Disc, Incorporated. Aerodynamic torque converter. 3,677,003, 7-18-72, Cl. 60-54.000.
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 Stumphauzer, William C.; Hogstrom, Edwin F.; Nord, Eric T.; Schneider, Richard E.; and Rood, Alvin A., 3,697,313.
- Schneider, Robert A., to Spin Physics, Inc. Transducer head with laminated pole tips for wideband transducer system. 3,663,765, 5-16-72, Cl. 179-100.2.
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 Schulz, Hansrichard; Bulow, Joachim; Schmitt, Berthold; and Schneider, Rudolf, 3,662,079.
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 Gretzschel, Herbert; Schneider, Walter; and Schmauder, Theodor, 3,645,211.
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- Schneider, Wilhelm A.: *See—*
 Acker, Morris; Ikrath, Kurt; and Schneider, Wilhelm A., 3,646,562.
- Schneider, William A.: *See—*
 Backus, Milo M.; and Schneider, William A., 3,688,249.
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 Pike, John E.; and Schneider, William P., 3,639,463.
- Schneider, Willy. Repair piece for automobile bodies. 3,695,796, 10-3-72, Cl. 425-12.000.
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 Feinauer, Roland; Thier, Werner; and Schneider, Wolfgang, 3,679,468.
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 Birtchet, Ralph D., 3,673,930.
- Birtchet, Ralph D., 3,680,451.
- Schneiderhan, Edward M.: *See—*
 Marsh, Lynn W.; and Schneiderhan, Edward M., 3,699,884.
- Schneidhofer, Adolf: *See—*
 Plockinger, Erwin; Holzgruber, Wolfgang; and Schneidhofer, Adolf, 3,643,726.
- Schneidinger, Frank: *See—*
 Bornarth, Dennis M.; and Schneidinger, Frank, 3,652,271.
- Schneier, Michael L.: *See—*
 Anderson, Edgar L.; and Schneier, Michael L., 3,683,944.
- Schneier, Michael Lawrence, to Sybron Corporation. Stepping switch system. 3,697,769, 10-10-72, Cl. 307-41.000.
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 Krimm, Heinrich; Botta, Artur; and Schneill, Hermann, 3,670,024.
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- Schneiter, John W.: *See—*
 Sellers, John C.; and Schneiter, John W., 3,703,427.
- Schnell, Georg: *See—*
 Hartmann, Hans Joerg; Schnell, Georg; Werst, Gerhard; Gros-seltinger, Horst; Hartmann, Job-Werner; and Bipp, Hansjoerg, 3,704,152.
- Hartmann, Heinrich; Hartmann, Job-Werner; Wilhelm, Hans; Schnell, Georg; Wolfram, Kittler; Werst, Gerhard; and Baur, Reinhold, 3,690,946.
- Hartmann, Job-Werner; Hartmann, Hans Joerg; Schnell, Georg; Falk, Roland; and Balz, Werner, 3,687,725.
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- Schnell, Gerhard: *See—*
 Wilke, Gerhard; Schnell, Gerhard; and Hoyer, Karl, 3,647,014.
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 Darsow, Gerhard; Bottenbruch, Ludwig; and Schnell, Hermann, 3,634,354.
- Dhein, Rolf; Meibner, Hans-Jurgen; and Schnell, Hermann, 3,660,330.
- Fuhr, Karl; Rudolph, Hans; Schnell, Hermann; and Patheiger, Manfred, 3,639,321.
- Fuhr, Karl; Vernaleken, Hugo; Heine, Hans-Georg; Rudolph, Hans; and Schnell, Hermann, 3,664,937.
- Gilch, Heinrich; Darsow, Gerhard; Bottenbruch, Ludwig; Lorenz, Gunter; Kunzel, Hans Egon; Nischk, Gunther; and Schnell, Hermann, 3,642,882.
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- Gilch, Heinz; and Schnell, Hermann, 3,686,266.
- Guhr, Karl; Vernaleken, Hugo; Heine, Hans-Georg; Rudolph, Hans; and Schnell, Hermann, 3,636,026.
- Heine, Hans-Georg; Fuhr, Karl; Rudolph, Hans; and Schnell, Hermann, 3,657,088.
- Hermann, Karl Heinz; and Schnell, Hermann, 3,635,913.
- Krimm, Heinrich; Schnell, Hermann; and Lenz, Gunther, 3,639,341.
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- Krimm, Heinrich; Buysch, Hans Josef; and Schnell, Hermann, 3,654,336.
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- Morgenstern, Karl; Schnell, Hermann; Bottenbruch, Ludwig; Court, Otto; Schwarz, Hans-Helmut; and Vernaleken, Hugo, 3,666,719.
- Ruppert, Heinrich; and Schnell, Hermann, 3,689,572.
- Vernaleken, Hugo; Malamet, Georg; Bottenbruch, Ludwig; Krimm, Heinrich; and Schnell, Hermann, 3,687,895.

- Weirauch, Kurt; Krimm, Heinrich; Lenz, Gunther; and Schnell, Hermann, 3,657,198.
- Schnell, Hermann; Czesla, Manfred J.; and Bottenbruch, Ludwig, to Farbenfabriken Bayer Aktiengesellschaft. Polymeric thermoplastic compounds derived from substantially linear polycarbonates and process for the production thereof. 3,692,870, 9-19-72, Cl. 20-861,000.
- Schnelle, Herbert, Velox-Werk: See—
Schnelle, Klaus, 3,647,274.
- Schnelle, Klaus, to Schnelle, Herbert, Velox-Werk. Tubular frame for furniture. 3,647,274, 3-7-72, Cl. 312-257.
- Schneller, Heinz: See—
Ryffel, Kaspar; and Schneller, Heinz, 3,647,758.
- Schneller, John, III; and Todd, Teruko I., to American Cyanamid Company. Process for removing inhibitors from alkenyl monomers. 3,632,626, 1-4-72, Cl. 260-465.9.
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Von, Angerer Roland; and Gillig, Witmar, 3,701,183.
- Schnepel, Lawrence S. Torque release adapter. 3,662,628, 5-16-72, Cl. 81-52.4.
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- Schnepfe, Robert W.: See—
Barr, Irwin R.; and Schnepfe, Robert W., 3,656,435.
- Schnepf, Bradley A.: See—
Brown, Gaylord W.; Russell, Edward J.; Howe, Charles E.; and Schnepf, Bradley A., 3,669,594.
- Schnepfer, Russel F., to Whirlpool Corporation. Mechanism for forming a corner joint flange. 3,659,539, 5-2-72, Cl. 113-1,000.
- Schnettler, Richard A.: See—
Suh, John T.; and Schnettler, Richard A., 3,654,284.
Suh, John T.; and Schnettler, Richard A., 3,655,671.
Suh, John T.; and Schnettler, Richard A., 3,661,915.
Suh, John T.; and Schnettler, Richard A., 3,665,006.
- Schnettler, Robert W.: See—
Gimler, John R.; Jurman, Stephen E.; and Schnettler, Robert W., 3,662,127.
- Schnetzinger, Richard W.: See—
Pum, Franz J.; and Schnetzinger, Richard W., 3,654,363.
- Schneyour, Amir; and Avron, Mordhay. Process for the disrupting of biological material. 3,679,139, 7-25-72, Cl. 241-2,000.
- Schnick, Arthur Warren: See—
Barnes, Robert Gilbert, Jr.; and Schnick, Arthur Warren, 3,662,153.
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- Schnitta, Edward: See—
Greenwood, Arthur R.; Heinze, Walter W.; Schnitta, Edward; and Boyd, David M., 3,706,536.
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- Schnitzler, Erwin, Dr.: See—
Schnitzler, Ulrich, 3,655,098.
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- Schnizer, Arthur W.: See—
Witt, Enrique R.; Humphrey, William J.; and Schnizer, Arthur W., 3,654,352.
- Schnizler, Albrecht, Jr., to Metabowerke KG Closs, Rauch & Schnizler. Heat insulation means for power tools. 3,695,344, 10-3-72, Cl. 165-147,000.
- Schnoes, Heinrich K.: See—
De Luca, Hector F.; Schnoes, Heinrich K.; and Holick, Michael F., 3,697,559.
- Schnuchel, Gunther: See—
Brandt, Hans-Walther; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; Schlepplinghoff, Bernhard; and Schnuchel, Gunther, 3,655,806.
- Schliebs, Reinhard; Brandt, Hans-Walther; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; and Schnuchel, Gunther, 3,686,349.
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- Schnurrbusch, Karl: See—
Steinbach, Hans-Horst; Theuer, Werner; and Schnurrbusch, Karl, 3,650,979.
- Schnyder, Conrad W.; and Schnyder, Katrin. Toilet paper dispenser. 3,656,699, 4-18-72, Cl. 242-55.3.
- Schnyder, Katrin: See—
Schnyder, Conrad W.; and Schnyder, Katrin, 3,656,699.
- Schobel, Karl; and Becker, Werner, to Messer Griesheim GmbH. Device for electrical protective gas welding. 3,665,147, 5-23-72, Cl. 219-131.
- Schober, Elmer A.: See—
Polenz, Thomas R.; and Schober, Elmer A., 3,659,114.
- Schober, Horst A.: See—
Hoppmann, Kurt H.; and Schober, Horst A., 3,669,260.
- Schober, Joachim: See—
Gottweis, Gert; Herrlich, Michael; Klas, Gunther; Schober, Joachim; Thiede, Peter; and Zschaus, Eberhard, 3,676,978.
- Schober, Thomas G., to Houdaille Industries, Inc. Turret indexing control circuit. 3,673,393, 6-27-72, Cl. 235-151.100.
- Schoberle, Robert. Electrode assembly for compensating thermal expansion in an electrolytic cell. 3,658,686, 4-25-72, Cl. 204-286.
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- Schocher, Arno Johannes: See—
Batcho, Andrew David; Berger, Julius; Furlenmeier, Andre; Keller, Oscar; Pecherer, Benjamin; Schocher, Arno Johannes; Spiegelberg, Hans; and Vaterlaus, Bruno Peter, 3,706,729.
- Becher, Elisabeth; Els, Hans; and Schocher, Arno Johannes, 3,634,461.
- Furst, Andor; Muller, Marcel; Muller, Peter; Schocher, Arno Johannes; and Bacher, Elisabeth, 3,700,702.
- Schock, Carlyle E. Tree jack directional frame system. 3,685,800, 8-22-72, Cl. 254-93,000.
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- Schoefer, Peter B.: See—
Berkman, Richard M.; and Schoefer, Peter B., 3,701,620.
- Schoeffel, James A.: See—
Koenig, Jude H.; Schoeffel, James A.; Carron, Gene J.; and Walford, Lionel K., 3,663,812.
- Schoeffler, William N. Breakaway conductor pipe. 3,703,190, 11-21-72, Cl. 137-375,000.
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- Schoeller-Bleckman Stahlwerke Aktiengesellschaft: See—
Souresny, Herbert, 3,659,882.
- Schoelz, Willy A. E.: See—
Schoelz, Willy A. E.; and Tidland, John W. (said Tidland assor. to said), 3,649,964.
- Schoelz, Willy A. E.; and Tidland, John W., said Tidland assor. to said Schoelz, Willy A. E. Ventilated welders face mask. 3,649,964, 3-21-72, Cl. 92-8.
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- Schoen, Karl: See—
Pachter, Irwin J.; and Schoen, Karl, 3,636,042.
Pachter, Irwin J.; and Schoen, Karl, 3,642,794.
Pachter, Irwin J.; and Schoen, Karl, 3,642,819.
Pachter, Irwin J.; and Schoen, Karl, 3,644,386.
Pachter, Irwin J.; and Schoen, Karl, 3,651,086.
- Schoen, Kurt, to Contraves AG. Conductivity cell for particle counting apparatus. 3,665,295, 5-23-72, Cl. 324-30,00b.
- Schoen, William: See—
Maddox, Jim, Jr.; and Schoen, William, 3,687,847.
- Schoen, William; and Landau, Leo, to Texaco Inc. Demulsifier for water-petroleum emulsions. 3,682,990, 8-8-72, Cl. 260-410,500.
- Schoenauer, Wolfgang: See—

- Frey, Wolfgang; and Schoenauer, Wolfgang, 3,646,071.
- Schoenbeck, Delbert L.; and Kincaid, Reece, to Richardson Chemical Cleaning Service, Inc. Integrated chemical cleaning apparatus. 3,667,487, 6-6-72, Cl. 134-108.
- Schoenberg, Jules Ernest: See—
Schrage, Albert; and Schoenberg, Jules Ernest, 3,671,505.
- Schoenberg, Leonard Norman: See—
Koonz, Donald Eldridge; Schoenberg, Leonard Norman; and Turner, Dennis Robert, 3,654,095.
- Schoenberger, Nicholas D.: See—
Herte, Lawrence; Softky, Sheldon D.; and Schoenberger, Nicholas D., 3,649,502.
- Schoenborn, William E.: See—
Anderson, Bernard J.; and Schoenborn, William E., 3,661,475.
- Schoenbrod, Michael P., to Aircheck, Inc. Roller assembly for sliding panels. 3,688,340, 9-5-72, Cl. 16-91,000.
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- Schoene, Kenneth Fred: See—
Sepulveda, Ralph Raymond; and Schoene, Kenneth Fred, 3,660,286.
- Schoenewaldt, Edwin F., to Merck & Co., Inc. 2-Halo-1,2-epoxypropylphosphonic acid and derivatives. 3,689,508, 9-5-72, Cl. 260-348,000.
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- Schoenfield, Palmer J.: See—
Glass, Marvin I.; and Schoenfield, Palmer J., 3,634,678.
- Schoengold, Herbert: See—
Grieg, Donald D.; and Schoengold, Herbert, 3,696,885.
- Schoenhals, Robert J.: See—
Palmer, Roy M.; and Schoenhals, Robert J., 3,653,613.
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- Schoenherr, Robert O.: See—
Schoenherr, Leonard W.; Schoenherr, Robert O.; and Schmock, John W., 3,647,604.
- Schoening, Werner P.: See—
Allen, Gordon H.; Hosack, Robert C.; Schoening, Werner P.; and Yaeger, Luther L., 3,633,533.
- Schoenlaub, Robert A., to Orton, Edward, Jr., Ceramic Foundation, The. Apparatus for thermal analysis. 3,667,294, 6-6-72, Cl. 73-190,000.
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Hoffman, Herwig; Jescher, Gerhard; Kuerzinger, Alfred; Schmidt, Erwin; Schoenleben, Willibald; Voges, Dieter; and Winderl, Siegfried, 3,691,205.
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Mulqueen, John J.; and Schoettly, Edward, 3,676,824.
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Phillips, James A.; Schofield, Aldred E.; and Briscoe, William L., 3,667,059.
- Schofield, Arthur T., to Manufacturers Brush Company, The. Brush construction. 3,641,611, 2-15-72, Cl. 15-180.
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Harwood, Mervyn Geoffrey; and Schofield, John, 3,699,346.
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Donninger, Cyril; and Schofield, John A., 3,636,037.
Donninger, Cyril; Schofield, John A.; and Hawes, John E., 3,701,779.
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Schoger, Henry L., 3,645,292.
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- Schoij, Edgar, to Union Special Machine Company, Thread control device for sewing machines. 3,683,832, 8-15-72, Cl. 112-242.000.
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Lacovich, Rodolfo L.; and Schoijett, Horacio N., 3,642,551.
- Schokbeton Products Corporation: See—
Mc Caul, James F., III; and Compton, Lloyd A., 3,702,523.
- Schold, George R. Apparatus for dispersing finely divided solid particles in a liquid vehicle. 3,653,600, 4-4-72, Cl. 241-74.
- Scholdstrom, Karl O. R., to Aga Aktiebolag, Optical range finder. 3,634,011, 1-11-72, Cl. 356-5.
- Scholdstrom, Karl O. R., to AGA Aktiebolag, Scrambled-phase light signalling device. 3,657,544, 4-18-72, Cl. 250-199.
- Scholdstrom, Karl Otto Ragnar, to Aga Aktiebolag, Light signal apparatus. 3,656,828, 4-18-72, Cl. 350-7.
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Fullers, Detlef; and Schubel, Friedrich, 3,666,196.
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Miner, William Wiley; Scholer, Henry Gardner; and Collins, Stephen Richard, 3,683,796.
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Richter, Friedrich; and Steiner, Rudolf, 3,640,103.
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Scholl, Carl W.; and Raffaelli, Milo L., Sr., 3,701,707.
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United States of America, National Aeronautics and Space Administration, 3,658,974.
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Henke, Erich G.; Braun, Helmut F.; Scholl, Karl L.; and Schubert, Rudolf, 3,651,743.
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Raguse, Roger C., 3,660,323.
- Schickedanz, Erich, 3,658,971.
- Scholl, Carl W.; and Raffaelli, Milo L., Sr., 3,655,477.
- Scholl, Richard: See—
Trieschmann, Hans-Georg; Wisseroth, Karl; Scholl, Richard; and Herbeck, Rudolf, 3,639,377.
- Wisseroth, Karl; and Scholl, Richard, 3,655,834.
- Wisseroth, Karl; Trieschmann, Hans-Georg; Dodel, Peter; Hoehr, Lothar; Herbeck, Rudolf; and Scholl, Richard, 3,687,917.
- Scholl, Robert F., to Monsanto Company, Web marking device. 3,670,615, 6-20-72, Cl. 83-367.000.
- Scholl, Roland D.: See—
Page, Russell D.; Klingaman, Dean C.; and Scholl, Roland D., 3,703,931.
- Scholl, Roland D., to Caterpillar Tractor Company, Durable electrical switch. 3,675,169, 7-4-72, Cl. 335-205.000.
- Scholl, Ronald F.: See—
Bleha, William P., Jr.; and Scholl, Ronald F., 3,681,638.
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Brockway, Charles E.; Schollenberger, Charles S.; and Sachara, Eugene F., 3,692,597.
- Scholler, Ami: See—
Piquerez, Ervin, 3,683,615.
- Piquerez, Ervin, 3,699,767.
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- Schollhamer, George R., to Rudd-Melikian, Inc. Filter. 3,651,947, 3-28-72, Cl. 210-474.
- Schollhorn, Martin: See—
Jahnert, Fritz; and Schollhorn, Martin, 3,643,283.
- Schollmeyer, William A. Spring type resistance exercising device. 3,687,450, 8-29-72, Cl. 272-83.00r.
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Dolfing, Thale; and Lolkema, Jan (said Lolkema assor. to), 3,690,107.
- Scholten, Paul: See—
Holler, Paul; and Scholten, Paul, 3,657,638.
- Holler, Paul; and Scholten, Paul, 3,693,074.
- Scholten Research N.V.: See—
Beersma, Pieter Johannes Adrianus; and Veening, Albert Hendrik, 3,640,756.
- Dijkhuizen, Willem; and Beersma, Pieter Johannes Adrianus, 3,664,863.
- Scholten-Honig Research N.V.: See—
Smit, Gesienus, 3,682,733.
- Scholtis, Walter; Ploch, Siegfried; Schattauer, Friedrich; Schonfuss, Martin; and Heilmann, Horst, to Forschungsinstitut für Textiltechnologie Karl-Marx-Stadt, Method and apparatus for producing knitted fleeces on multi-needle knitting machines. 3,646,781, 3-7-72, Cl. 64-85.
- Scholven-Chemie Aktiengesellschaft: See—
Ibing, Gunther; and Neubold, Kurt, 3,697,541.
- Schmitt, Karl; Gude, Fritz; and Brandt, Siegfried, 3,673,273.
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- Scholz, Heinrich: See—
Hoffmann, Herwig; Lissner, Oskar; Merkel, Karl; and Scholz, Heinrich, 3,658,728.
- Scholz, Heinz Paul, to Gerdt, Gustav F., KG. Check valve. 3,633,614, 1-11-72, Cl. 137-543.19.
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Scholz, Donald T., 3,679,177.
- Scholz, Klaus L. J.; and Psader, Josef, to Polychemie G.m.b.H. Augabury. Lead dioxide stabilization. 3,661,804, 5-9-72, Cl. 252-441.
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- Scholz, Paul W.; and Czusak, Charles C., to Carrier Corporation, Valve construction. 3,652,055, 3-28-72, Cl. 251-67.
- Scholz, Rudolf O.: See—
Schmermund, Alfred; and Scholz, Rudolf O., 3,696,910.
- Scholz, Walter: See—
Linde, Gerhard; Scholz, Walter; and Becker, Rudolf, 3,649,558.
- Scholz, Werner: See—
Boehm, Otto; and Scholz, Werner, 3,703,214.
- Scholze, Arlene E.: See—
Mizuno, William G.; Copeland, James L.; and Scholze, Arlene E., 3,700,599.
- Schomburg, Noel L., to Monsanto Company, Cleansing and soil preventive composition. 3,679,592, 7-25-72, Cl. 252-153.000.
- Schomer, Raymond A.: See—
Yasenachak, Richard W.; Schomer, Raymond A.; and Harper, Ernest V., 3,665,148.
- Schommer, Alfred: See—
Oberst, Hermann; Reihls, Leonhard; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,830.
- Oberst, Hermann; Reihls, Leonhard; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,833.
- Oberst, Hermann; Reihls, Leonhard; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,834.
- Oberst, Hermann; Leonhard, Hofheim; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,835.
- Oberst, Hermann; Reihls, Leonhard Hofheim; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,640,836.
- Oberst, Hermann; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,674,624.
- Oberst, Hermann; Ebigt, Joachim; Duve, Gunther; and Schommer, Alfred, 3,674,625.

- Schon & Cie Gesellschaft mit beschränkter Haftung, Firma: See—
Schindler, Herbert; and Winter, Gerhard, 3,654,651.
- Schindler, Herbert; and Winter, Gerhard, 3,657,756.
- Schindler, Herbert; and Winter, Gerhard, 3,685,072.
- Schon, Franz: See—
von der Eltz, Hans-Ulrich; Birke, Walter; Kunze, Wolfgang; Taunus, Hofheim; and Schon, Franz, 3,679,349.
- Schon, Kenneth A. Exercise apparatus and method for paralytic patients. 3,693,614, 9-26-72, Cl. 128-25.000.
- Schon, Nikolaus: See—
Leontaritis, Lambis; Schon, Nikolaus; Hoffmann, Hans; and Sayed, Aziz El, 3,696,498.
- Leontaritis, Lambis; Schon, Nikolaus; and Hoffmann, Hans, 3,706,124.
- Witte, Josef; Pampus, Gottfried; Schon, Nikolaus; and Marwede, Gunter, 3,692,760.
- Schon, Siegfried, to Siemens Aktiengesellschaft, Circuit arrangement for telephone private branch exchanges permitting conference calls between subscriber sets having video transmission. 3,678,207, 7-18-72, Cl. 179-18.0bc.
- Schonart, Edgar: See—
Adler, Karl-Heinz; Locher, Johannes; Lemanczyk, Rudolf; and Schonart, Edgar, 3,699,935.
- Schonbeck, Rupert; and Kloimstein, Engelbert, to Österreichische Stickstoffwerke Aktiengesellschaft, Process for the preparation of pyridazine derivatives. 3,663,546, 5-16-72, Cl. 260-250.
- Schonberg, Erik, to AB Gustavabergs Fabriken, Room wall building element including a door-frame. 3,687,052, 8-29-72, Cl. 98-32.000.
- Schonberger, Helmut: See—
Otto, Herbert; and Schonberger, Helmut, 3,666,037.
- Schone, Dieter: See—
Witschel, Klaus; and Schone, Dieter, 3,656,269.
- Schone, Hans-Hermann: See—
Geiger, Rolf; Pfaff, Werner; Eander, Alfred; Schone, Hans-Hermann; and Mager, Adolf, 3,684,791.
- Schone, Helmut; Weisbach, Gunter; John, Hans; Kuhn, Fritz; and Lein, Werner, to VEB Polygraph-Leipzig-Kombinat für Polygraphische Maschinen und Ausrüstungen, Method and apparatus for feeding of sheets fittingly aligned to a machine. 3,647,205, 3-7-72, Cl. 71-57.
- Schone, Helmut; Henkenhae, Horst; Vetter, Lothar; and Krause, Horst, to VEB Polygraph Leipzig, Kombinat für Polygraphische Maschinen und Ausrüstungen, Humidity regulating system for printing machine. 3,686,771, 8-29-72, Cl. 34-44.000.
- Schoneborn, Hellmuth, to Messerschmitt-Bölkow-Blohm Gesellschaft mit beschränkter Haftung, Method and apparatus for searching, selecting and tracking targets utilizing a radar having a range gate. 3,648,286, 3-7-72, Cl. 343-7.3.
- Schonegg, Louis E.: See—
Hoffman, Stephen J.; and Schonegg, Louis E., 3,665,318.
- Schonemeyer, Hilmar: See—
Schluter, Heinz; and Schonemeyer, Hilmar, 3,660,612.
- Schonethaler, David, to Western Electric Company, Incorporated, Radiant energy soldering. 3,649,811, 3-14-72, Cl. 219-349.
- Schonewald, Roger L.; and Kevorkian, Victor, to Ingersoll-Rand Research Inc. Gasoline vapor recovery. 3,648,436, 3-14-72, Cl. 55-88.
- Schonfeld, Steven Edward, to Firestone Tire & Rubber Company, The. Catalysis of polyamide formation. 3,705,881, 12-12-72, Cl. 260-78.001.
- Schonfuss, Martin: See—
Scholtis, Walter; Ploch, Siegfried; Schattauer, Friedrich; Schonfuss, Martin; and Heilmann, Horst, 3,646,781.
- Schönherr, Erich: See—
Lettenmayer, Rolf-Dieter; Schönherr, Erich; and Tittmann, Egon, 3,644,065.
- Schonholtz, George J. Surgical glove. 3,633,216, 1-11-72, Cl. 2-168.
- Schonhorn, Harold: See—
Hara, Katsuyuki; and Schonhorn, Harold, 3,676,289.
- Ryan, Francis W.; and Schonhorn, Harold, 3,635,938.
- Schonhuber, Max-Josef, to Siemens Aktiengesellschaft, Vacuum circuit breaker. 3,702,911, 11-14-72, Cl. 200-144.00b.
- Schonitz, Egon: See—
Oppermann, Willi; Schonitz, Egon; and Wagner, Werner, 3,648,007.
- Schonwald, Siegfried, to Siemens Aktiengesellschaft, Device for automatically stopping delivery of liquid by a centrifugal pump during reverse operation thereof. 3,659,955, 5-2-72, Cl. 415-116.
- Schonzin Klein & Becker, Aktiengesellschaft: See—
Holz, Hans; Kleep, Christian; and Koll, Gunter, 3,706,513.
- Schoohf, Karl Ewald: See—
Zwahlen, Guenther; Retch, Ernst; and Schoohf, Karl Ewald, 3,705,816.
- Schoolcraft, Ralph W., to Magnavox Company, The. Voice transmission and receiving system employing pulse duration modulations with a suppressed clock. 3,667,046, 5-30-72, Cl. 325-38.
- Schooley, James A.: See—
Bond, Kenneth L.; and Schooley, James A., 3,662,402.
- Schools, Rodman S.: See—
Chang, David C.; Schools, Rodman S.; Sincerbox, Glenn T.; and Tao, Tien-Yu, 3,632,214.
- Schoonmaker, Donald: See—
Woodruff, George M.; Schoonmaker, Donald; Daniels, David; and Waxler, Burton S., 3,691,718.
- Schoonmaker, Edward Balmor: See—
Wiegert, Albert Carl; and Schoonmaker, Edward Balmor, 3,700,232.
- Schoonmaker, Edward F. Drum holder. 3,690,075, 9-12-72, Cl. 51-368.000.
- Schoonmaker, Townsend L. Stationary dredging apparatus. 3,638,432, 2-1-72, Cl. 61-2.
- Schoonman, Willem; and Oey, Djin Kian, to Lummus Nederland N.V. Device for sealingly closing a metal pressure vessel. 3,690,505, 9-12-72, Cl. 220-46.0ms.
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- Schoonover, Richard H. A., to Formac International, Inc., mesne. Track assembly for tracked vehicles. 3,703,321, 11-21-72, Cl. 305-38.000.
- Schoonover, Stanley C.; and Luckenbach, Lester R., to Litton Industries, Inc. Offset size adjustment circuit for grinding machines. 3,694,970, 10-3-72, Cl. 51-165.710.
- Schoot, Cornelis Johannes: See—
Engelsman, Jan Johannes; and Schoot, Cornelis Johannes, 3,642,590.
- Schoots, Peter J.; Brugmans, Johannes Thomas; and Hoogenhout, Klaas, to Lurex, N.V. Metallic yarn. 3,702,053, 11-7-72, Cl. 57-154.000.
- Schopf, Albert: See—
Meyer, Gerhard; Grotjahn, Heinz; Magerlein, Helmut; Rupp, Hans-Dieter; Michael, Erlenbach; and Schopf, Albert, 3,661,502.
- Schopf, Albert; Wallrabenstein, Michael; Rupp, Hans-Dieter; Magerlein, Helmut; Grotjahn, Heinz; and Meyer, Gerhard, to Glanzstoff AG, Metal-containing polycyclohexylamidrazones. 3,661,836, 5-9-72, Cl. 260-37.
- Schopp, Frederick Ralph: See—
Perrault, Delphus Eugene; and Schopp, Frederick Ralph, 3,686,863.
- Schoppe, Fritz E. Method of stirring materials and apparatus therefor. 3,685,806, 8-22-72, Cl. 259-108.000.
- Schoppe, Gunter: See—
Beyer, Hermann; and Schoppe, Gunter, 3,637,280.
- Schor, Ferdinand William, to AMP Incorporated, Filters for interconnection systems. 3,702,422, 11-7-72, Cl. 317-101.0cc.
- Schora, Frank C., Jr.: See—
Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B., 3,700,421.
- Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B., 3,700,422.
- Lee, Bernard S.; and Schora, Frank C., Jr., 3,632,479.
- Lee, Bernard Shing-Shu; and Schora, Frank C., Jr., 3,640,016.
- Schorer, Gustav: See—
Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Schorer, Gustav; Hovy, Jan Willem Herman; and Schorscher, Ernst, 3,669,973.
- Schormann, Urmas: See—
Smith, James W., Sr.; Evans, Benjamin E.; Riggles, William M., Jr.; and Schormann, Urmas, 3,664,456.
- Schornstadt, Peter: See—
Konig, Gottfried; and Schornstadt, Peter, 3,691,922.
- Schorr, Herbert: See—
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- Plumat, Emile; Toussaint, Francois; and Schottey, Jean, 3,639,198.
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- Hoffman, Bernard A., 3,655,001.
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- Schramm, James N.: See—
- Kropscott, Earle L.; Blanchard, Robert R.; and Schramm, James N., 3,687,873.
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- Schraven, Eckard: See—
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- Schreiber, Ronald S.: See—
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- Wiltz, Robert E.; Schreiner, Edmund D.; and Winsor, Malcolm C., 3,656,172.
- Schreiner, Gehart: See—
- Stocker, August; Marti, Othmar; Pfammatter, Theodul; and Schreiner, Gehart, 3,657,259.
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- Forst, Donald L.; and Schrengauer, Edwin B., 3,638,674.
- Schrenk, Walter J.: See—
- Chisholm, Douglas S.; and Schrenk, Walter J., 3,645,837.
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Pfeiffer, Gerd; Biller, Horst; Schrey, Claus; and Schmitz, Alfred, 3,645,121.
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Landwehrkamp, Hans; Schreyer, Franz; and Handschuch, Karl, 3,685,267.
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Schmitt, Charles R.; and Schreyer, James M., 3,632,385.
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Vogt, John W.; and Schrier, Peter G., 3,698,392.
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De Boeck, Paul; Marteel, Bernard; and Schrijvers, Jozef, 3,669,833.
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Wysong, Paul V., 3,667,311.
Wysong, Paul V., 3,669,460.
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Block, Fred B.; and Schroder, Arthur H., 3,687,957.
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Albrecht, Rudolf; Kessler, Hans-Joachim; and Schroder, Eberhard, 3,660,385.
Albrecht, Rudolf; Kessler, Hans-Joachim; and Schroder, Eberhard, 3,671,520.
Gutsche, Klaus; Albrecht, Rudolf; Kessler, Hans-Joachim; and Schroder, Eberhard, 3,707,485.
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Radschelt, Kurt; Fritsch, Werner; Haede, Werner; Stache, Ulrich; and Schroder, Hans-Georg, 3,657,434.
Stache, Ulrich; Haede, Werner; Fritsch, Werner; Radschelt, Kurt; and Schroder, Hans-Georg, 3,663,579.
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Barteleit, Ulrich; Regenscheit, Walter; Schroder, Helmut; and Wolf, Erich, 3,643,585.
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Kind, Guntram; Schroder, Karl-Heinz; and Busse, Rido, 3,655,039.
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Engelsmann, Dieter; Maas, Dieter; Schroder, Rolf; and Linke, Gerda, 3,667,366.
Engelsmann, Dieter; and Schroder, Rolf, 3,668,988.
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Buth, Roy C.; and Schroeder, Arthur F., 3,673,047.
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Barthe, Henry P., 3,656,621.
Schroeder, William E., 3,683,255.
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Hwa, Chih M.; Bodach, Charles M.; and Schroeder, C. D., 3,666,404.
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Halasa, Adel F.; and Schroeder, Ervin E., 3,661,873.
Oberster, Arthur E.; and Schroeder, Ervin E., 3,657,170.
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Hunter, James R.; Dinerman, Bernard B.; Mann, Abe; and Schroeder, Franklin T., 3,696,946.
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Alexander, Roy P.; and Schroeder, Hans Jürgen A., 3,637,836.
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Showalter, Guy M.; Schroeder, Harry C.; and Gause, Kermit, 3,632,717.
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Shirey, James W., 3,697,930.
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Brown, Sherman D.; Schroeder, Thomas F.; and Conabee, Earl E., 3,657,063.
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Pritchard, John P., Jr.; and Schroen, Walter H., 3,673,071.
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Hoelzinger, Walther J.; Wenninger, Johann; Mayer, Walter; Zoegernitz, Karl; Schroetter, Hermann; and Braun, Werner, 3,669,064.
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Mentrup, Anton; Schromm, Kurt; Zeile, Karl; and Thoma, Otto, 3,657,244.
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Dieterich, Donald B.; and Schrum, George L., 3,647,126.
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Nast, Roland; Dahm, Manfred; Ley, Kurt; and Schubart, Rudiger, 3,687,875.
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Behrmann, Georg; and Schubart, Rudolf, 3,651,528.
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Fullers, Detlef; and Schubel, Friedrich, 3,666,196.
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Landwehrkamp, Hans, 3,680,300.
- Schubert & Salzer Maschinenfabrik Aktiengesellschaft: See—
Landwehrkamp, Hans, 3,640,061.
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Boy, Peter; Kohler, Heinz; and Lucke, Heinz, 3,648,485.
Furtmeier, Hans; and Arnold, Rudolf, 3,681,905.
Hubel, Egon; and Hoeber, Gerhard, 3,670,237.
Landwehrkamp, Hans; Schreyer, Franz; and Handschuch, Karl, 3,685,267.
Landwehrkamp, Hans, 3,695,022.
Niestroj, Heinrich; and Tille, Hans, 3,650,127.
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Schubert, Bernhard; Schubert, Alfred; and Berlin, Herbert, 3,664,891.
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Plasser, Franz; Theurer, Josef; and Schubert, Egon, 3,643,503.
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Kruger, Joachim; Schabert, Hans-Peter; Schubert, Franz; and Weber, Robert, 3,691,011.
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Moederndorfer, Herbert; and Schubert, George E., 3,661,234.
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Stauff, Emil; Guillot, Jean; Allard, Pierre; Schubert, Johannes; Topfer, Heinz; and Prier, Erich, 3,653,288.
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Schneider, Theodor; Schubert, Karl-Friedrich; and Jakob, Heinz, 3,694,723.
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Wagner, Karl; Nicolay, Klaus; Schuchardt, Gerhard; and Putscher, Johann, 3,705,539.
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Perrot, Alexander; and Schucker, Emil, 3,647,140.
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Bertele, Erhard; and Schudel, Peter, 3,699,169.
Lamparsky, Dietmar; and Schudel, Peter, 3,660,489.
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Davidson, Robert W.; and Schuerch, Conrad, 3,642,042.
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Gebhard, Harold C.; and Schueren, William B., 3,670,454.
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Jankowski, Alfons; and Schuermann, Fritz, 3,705,646.

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Godefroi, Erik Fred; and Schuermans, Josephus Leo L.C.M., 3,658,813.
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Johnson, John A.; Alberti, Nicholas F.; and Schuette, Joseph E., 3,659,333.
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Kelch, Heinz; and Schuh, Eduard, 3,698,627.
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Allen, William G.; Le Velle, James A.; and Schuh, Frank J., 3,680,631.
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Schmidt, Helmut; and Schuhmacher, Alfred, 3,657,283.
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Schnell, Georg; Woellhaf, Josef; Richter, Volker; Schuhmacher, Gerd; and Sobotta, Erich Albert, 3,688,289.
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Demme, Ernst; Schachowsky, Theodor; Schuhmacher, Guenther; Fehlhaber, Juergen; and Hartmann, Ludwig, 3,647,594.
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Nollen, Bernard; and Schuhmann, Hans, 3,631,721.
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Hahn, Helmut; Rebsdat, Siegfried; Ruchlak, Kasimir; and Schuieler, Erich, 3,681,426.
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Skulsky, Jury Valentinovich; Boretzky, Vasily Grigorievich; Sakhamov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievich; Schukin, Pavel Ivanovich; Danilkiv, Ivan Petrovich; Zelensky, Vladimir Filippovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgarnovich; and Sokirko, Vasily Andreevich, 3,657,962.
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Bimber, Russell M.; and Schuldt, Paul H., 3,637,716.
- Schulenberg, John W.: *See—*
Archer, Sydney; and Schulenberg, John W., 3,676,444.
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Hofer, Franz; and Schuler, Claus, 3,684,499.
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Bieker, Lawrence W.; Schuler, Harold E.; and Kinghorn, Mark D., 3,666,158.
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Aschkepasy, Herbert; Schuler, John Joseph, Jr.; and Bower, Jerry Efton, 3,677,984.
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Dietrich, Hermann; Schuler, Karl; and Meese, Heinz Gunter, 3,665,352.
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Bergmann, Ewald; and Bareis, Alfred, 3,696,983.
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Ebner, Cuno; and Schuler, Max, 3,644,355.
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McHugh, Neil Martin; Scheurman, Clarence, III; and Schulerrud, Albert Lyle, 3,703,772.
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Uebel, Philipp; Heckner, Helmut; and Schulin, Gotthilf, 3,651,873.
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Dickopp, Gerhard; Klemp, Hans-Joachim; Redlich, Horst; and Schuller, Eduard, 3,652,809.
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Shaver, William R.; and Schuller, James J., 3,693,839.
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Berry, David A.; Bunk, Albert R.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., 3,652,474.
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Schuller, Wolfgang; and Hohlfield, Harald, 3,676,096.
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Wallace, George O., 3,654,871.
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Lindstrom, Gunnar; and Schullstrom, Gunde, 3,636,318.
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Dengler, Herbert P.; and Schulman, Bernard L., 3,652,446.
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Eacho, William H., 3,637,300.
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Van-Essen, Christopher Geoffrey; Schulson, Erland Maxwell; and Donaghy, Richard Hugh, 3,702,398.
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Schulte, Charles A., 3,659,958.
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Koppe, Volker; Schulte, Karl; Schliep, Hans-Joachim; and Schorschner, Ernst, 3,649,631.
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Mund, Konrad; and Schulte, Rolf-Winfried, 3,684,579.
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Rayport, Mark; and Schulte, Rudolf R., 3,687,131.
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Robin, Michael; and Schulte, Sheldon R., 3,676,530.
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Huber, Wolfgang; and Schulte, Thomas L., 3,637,641.
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Kleinschmidt, Hans-Joachim; and Schultenkamper, Josef, 3,704,922.
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Grigat, Ernst; Schultheis, Heinz; Bock, Eugen; and Dollhausen, Manfred, 3,658,623.
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Jurkovic, Joseph W., Sr.; and Schultz, Donald E., 3,653,519.
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Hopeman, Albert A., Jr.; Shiftlet, Frank L.; and Schultz, Howard G., 3,651,776.
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Flournoy, Norman E.; Eisenlohr, Gerald M.; Black, Frank R., Jr.; and Schultz, James E., 3,683,846.
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Bell, Harry F.; Lazzarini, Donald J.; and Schultz, Lewis K., 3,699,029.
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Maurer, Robert D.; and Schultz, Peter C., 3,659,915.
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Duffy, Daniel P., 3,684,116.
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Winston, Ronald H.; Schultz, Stephen; and Garvey, Thomas Q., III, 3,657,056.
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Bushman, Bliss M.; and Schultz, William D., 3,671,100.
- Schultz, William H.: *See—*
Gronke, Ronald E.; and Schultz, William H., 3,701,369.
- Schultz, Wilmer R.: *See—*
Tipton, Max E.; and Schultz, Wilmer R., 3,702,204.
- Schultz, Wilmer R., mesne: *See—*

Tipton, Max E.; and Schultz, Wilmer R., 3,702,204.
 Schultze, Ernst-Christian: *See*—
 Riemhofer, Franz; Dittmann, Walter; Biethan, Uwe; Hornung, Karl-Heinz; and Schultze, Ernst-Christian, 3,678,128.
 Schultze, Hans-Joachim, to Inventa AG. Apparatus for separating crystals from a melt. 3,705,682, 12-12-72, Cl. 233-11.000.
 Schulz, Alfred: *See*—
 Geipel, Hans; Schulz, Alfred; and Huber, Helmut, 3,646,655.
 Hellbarth, Heinz; Wendel, Wolfram; and Schulz, Alfred, 3,646,449.
 Schulz, Arthur A.: *See*—
 Boyer, Robert A.; Schulz, Arthur A.; and Schatzman, Edmond A., 3,644,121.
 Boyer, Robert A.; Schulz, Arthur A.; Oborsh, Edward V.; and Brown, Arthur V., 3,662,673.
 Schulz, Eckhard: *See*—
 Neissner, Rudolf; and Schulz, Eckhard, 3,689,514.
 Schulz, Egon; Bolega, Ulrich; and Lang, Johann, to International Telephone and Telegraph Corporation. Semiconductor device showing at least three successive zones of alternate opposite conductivity type. 3,684,933, 8-15-72, Cl. 317-235.00r.
 Schulz, George H.: *See*—
 Jackson, Richard H.; and Schulz, George H., 3,687,464.
 Lojkutz, Bruno V.; Warner, Dale J.; and Schulz, George H., 3,647,227.
 Schulz, Gerald L.; and Mansur, Raymond T., to United States of America, Army. Heat sealer. 3,673,041, 6-27-72, Cl. 156-306.000.
 Schulz, Gerhard: *See*—
 Berding, Christoph; Guenther, Paul; Koehler, Waldemar; and Schulz, Gerhard, 3,668,246.
 Berding, Christoph; Guenther, Paul; Schulz, Gerhard; and Koehler, Waldemar, 3,689,543.
 Schulz, Gerhard; and Matthias, Guenther, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of esters of acetic acid. 3,679,739, 7-25-72, Cl. 260-488.00f.
 Schulz, Gerhard; Harter, Erich; and Matthias, Guenther. Production of cyclohexenyl acetate. 3,696,142, 10-3-72, Cl. 260-488.00r.
 Schulz, Gordon R., to Odetics, Inc. Tape reel clamp. 3,653,603, 4-4-72, Cl. 242-68.3.
 Schulz, Gunter: *See*—
 Sauer, Theo; and Schulz, Gunter, 3,655,166.
 Sauer, Theo; Posse, Rolf-Fred; and Schulz, Gunter, 3,692,283.
 Schulz, Gunter; Himmelmann, Wolfgang; and Randolph, August, to Agfa-Gevaert Aktiengesellschaft. Epoxide hardener in silver halide emulsion layer and formaldehyde and/or glyoxal hardener in adjacent protective layer. 3,676,144, 7-11-72, Cl. 96-111.000.
 Schulz, Hans: *See*—
 Glatzel, Erhard; and Schulz, Hans, 3,661,447.
 Schulz, Hans-Dieter: *See*—
 Knell, Bernhard; Desfossez, Paul; Hess, Walter; and Schulz, Hans-Dieter, 3,638,713.
 Schulz, Hans-Dieter, to Schloemann Aktiengesellschaft. Safety system for continuous casting machine. 3,707,181, 12-26-72, Cl. 164-152.000.
 Schulz, Hans-Peter: *See*—
 Kraemer, Friedrich; Mandel, Jörn; Mayer, Siegfried; Rohrig, Klaus; Schulz, Hans-Peter; Weidenmüller, Hilmar; Haverkamp, Klaus Dieter; and Motz, Jürgen, 3,664,826.
 Schulz, Hans-Peter; and Mandel, Jörn, to Rhein Stahl Huttenwerke AG. Method of and apparatus for desulfurizing pig iron. 3,687,430, 8-27-72, Cl. 266-34.00a.
 Schulz, Hansrichard, to SABA Schwarzwälder Apparate-Bau-Anstalt August Schwer Sohle GmbH. Negative resistance antenna amplifier arrangement. 3,633,109, 1-4-72, Cl. 325-373.
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 Schulz, Hansrichard; Bulow, Joachim; Schmitt, Berthold; and Schneider, Rudolf, to Saba Schwarzwälder Apparate-Bau-Anstalt August Schwer Sohle G.m.b.H., Firma. Teaching aid for audibly and visually illustrating the notes of the staff. 3,662,079, 5-9-72, Cl. 84-471.
 Schulz, Heinrich: *See*—
 Beck, Erich; and Schulz, Heinrich, 3,685,748.
 Schulz, Heinz-Dieter: *See*—
 Glatzel, Erhard; and Schulz, Hans, 3,661,447.
 Schulz, Helga: *See*—
 Mager, Elisabeth; Schulz, Helga; and Schulz, Peter, 3,669,112.
 Schulz, Herbert. Centrifuge comprising a slowly rotating drum in a casing revolving at high speed. 3,684,162, 8-15-72, Cl. 233-32.000.
 Schulz, Horst: *See*—
 Schwerdhofer, Hans; and Schulz, Horst, 3,661,034.
 Schulz, Horst, to Fichtel & Sachs AG. Centrifugally operated clutch in a two-speed bicycle hub. 3,659,688, 5-2-72, Cl. 192-105.
 Schulz, Horst, to Fichtel & Sachs AG. Multiple speed hub with automatic gear change and manual override. 3,701,292, 10-31-72, Cl. 74-752.00e.
 Schulz, Jay R.; and Clark, William H., to Dow Corning Corporation. Room temperature vulcanizable silicone rubber with unprimed adhesion. 3,647,917, 3-7-72, Cl. 260-825.

Schulz, Johann G. D.: *See*—
 Joyce, Thomas P., Jr.; Lagally, Ralph W.; and Schulz, Johann G. D., 3,671,579.
 Onopchenko, Anatoli; Schulz, Johann G. D.; and Seekircher, Richard, 3,641,135.
 Onopchenko, Anatoli; Schulz, Johann G. D.; and Seekircher, Richard, 3,641,136.
 Onopchenko, Anatoli; Schulz, Johann G. D.; and Seekircher, Richard, 3,644,512.
 Onopchenko, Anatoli; Schulz, Johann G. D.; and Williamson, Roger C., 3,676,488.
 Onopchenko, Anatoli; and Schulz, Johann G. D., 3,692,828.
 Schulz, Johann G. D.; and Seekircher, Richard, to Gulf Research & Development Company. Process for obtaining nitro benzophenones. 3,641,132, 2-8-72, Cl. 260-517.
 Schulz, John C., to General Motors Corporation. Engine mount assembly. 3,702,178, 11-7-72, Cl. 248-9.000.
 Schulz, Leo J.; and Warner, George L., to Minnesota Mining and Manufacturing Company. Collator. 3,638,937, 2-1-72, Cl. 270-58.
 Schulz, Manfred, to General Signal of Canada, Ltd. Annunciator system with circuitry producing an output alarm signal for a discontinuous lamp. 3,686,667, 8-22-72, Cl. 340-409.000.
 Schulz, Max W., Jr., to General Electric Company. Free and loose object detection system. 3,681,976, 8-8-72, Cl. 73-67.000.
 Schulz, Peter: *See*—
 Mager, Elisabeth; Schulz, Helga; and Schulz, Peter, 3,669,112.
 Schulz, Robert D., Jr. Integral tops and bowls for sinks and the like and methods of making the same. 3,673,617, 7-4-72, Cl. 4-187.000.
 Schulz, Walter F.; and Vogt, Herwart C., to BASF Wyandotte Corporation. Sterically hindered secondary diamine curing agents for polyurethane compositions. 3,657,192, 4-18-72, Cl. 260-77.5.
 Schulz, Werner: *See*—
 Walther, Gerhard; Bauer, Rudolf; Schulz, Werner; and Sirenberg, Walther, 3,703,523.
 Zeile, Karl; Schulz, Werner; Banholzer, Rolf; and Wick, Helmut, 3,681,500.
 Schulze & Burgess Company: *See*—
 Ellis, Walter S., 3,698,052.
 Schulze, Bernd: *See*—
 Henniges, Karin; and Schulze, Bernd, 3,643,671.
 Schulze, Ernst: *See*—
 Hoehn, Hans; and Schulze, Ernst, 3,669,950.
 Hoehn, Hans; and Schulze, Ernst, 3,697,527.
 Hoehn, Hans; and Schulze, Ernst, 3,697,532.
 Schulze, Gerhard: *See*—
 Jestrzemiński, Fritz; Korbus, Dieter; and Schulze, Gerhard, 3,634,805.
 Zirker, Guenter; Sanne, Walter; Pilch, Kurt; and Schulze, Gerhard, 3,695,841.
 Schulze, Gerhard. Fan motor bearing assembly. 3,701,912, 10-31-72, Cl. 310-90.000.
 Schulze, Heinz: *See*—
 Klein, Howard Paul; Schulze, Heinz; and Speranza, George Philip, 3,654,183.
 Schulze, Heinz, to Jefferson Chemical Company, Inc. Process for preparing aryloxyalkanols. 3,642,911, 2-15-72, Cl. 260-613.
 Schulze, Heinz; and Cuscrida, Michael. Rapid drying moisture cured coatings. 3,691,135, 9-12-72, Cl. 260-77.5ap.
 Schulze, Helmut; and Pfistermeister, Martin, to Glanzstoff AG. Process for the production of polyurethanes. 3,635,907, 1-18-72, Cl. 260-77.5.
 Schulze, Helmut; and Seibert, Gerhard. Process for production of an artificial leather and product. 3,645,775, 2-29-72, Cl. 117-63.
 Schulze, James L., Sr.: *See*—
 Barnett, Richard C.; Dark, Joe W.; and Schulze, James L., Sr., 3,674,005.
 Brandt, Theodore C.; and Schulze, James L., Sr., 3,695,811.
 Schulze, James L., Sr., to General Electric Company. Apparatus for adding moisture to air. 3,643,930, 2-22-72, Cl. 261-97.
 Schulze, John J.: *See*—
 Lux, George K.; Ellis, James B.; and Schulze, John J., 3,685,894.
 Schulze, John J., to Addressograph-Multigraph Corporation. Method and apparatus for applying liquid developer to copy sheets. 3,672,326, 6-27-72, Cl. 118-8.
 Schulze, Kurt-Jürgen, to Glanzstoff AG. Process and apparatus for electrolytic treatment of transported wires. 3,645,856, 2-29-72, Cl. 204-28.
 Schulze, Kurt-Jürgen; and Jung, Joachim, to Glanzstoff AG. Patenting of steel wires with lead. 3,669,761, 6-13-72, Cl. 148-15.000.
 Schulze, Manfred; and Schabacher, Werner, to Farbenfabriken Bayer Aktiengesellschaft. Process for producing a substantially phosphate ion-free ammonium fluoride solution. 3,669,621, 6-13-72, Cl. 23-88.000.
 Schulze, Martin: *See*—
 Preusser, Gerhard; Schulze, Martin; and Richter, Klaus, 3,673,081.
 Preusser, Gerhard; Schulze, Martin; and Richter, Klaus, 3,679,579.
 Schulze, Peter: *See*—

Hoffmann, Manfred; and Schulze, Peter, 3,702,425.
 Holtz, Joachim; and Schulze, Peter, 3,683,261.
 Schulze, Reinhold, to Norddeutsche Affinerie. Process for preventing supersaturation of electrolytes with arsenic, antimony and bismuth. 3,696,012, 10-3-72, Cl. 204-108.000.
 Schulze, Roy E.: *See*—
 Yancik, Joseph J.; Schulze, Roy E.; and Rydlund, Paul H., 3,640,784.
 Schulze, Thomas: *See*—
 Graham, David E.; Schulze, Thomas; and Fein, Marvin M., 3,681,429.
 Schulze, Ulrich; and Meyer, Gerhard, to Glanzstoff AG. N,N'-Bis-(phenyl)-oxamidrazone. 3,647,878, 3-7-72, Cl. 260-564.
 Schulze-Berge, Karl J., to AMF Incorporated. Adjustable timer cam assembly spring biased by contacts for normal engagement with synchronous motor driven gear. 3,700,837, 10-24-72, Cl. 200-38.00r.
 Schulze-Robbecke, Hans; and Tiedtke, Alfred, to Riloga-Werk Julius Schmidt. Curtain suspension devices with an electric motor drive. 3,672,425, 6-27-72, Cl. 160-331.000.
 Schuma, Richard F.: *See*—
 Watkins, Robert A.; and Schuma, Richard F., 3,632,871.
 Schumacher, Arnold: *See*—
 Stoddard, Robert D.; Schumacher, Arnold; Conley, Grant W.; and Williams, Roy M., Jr., 3,665,454.
 Schumacher, Edward R. Laser stimulator assembly. 3,668,546, 6-6-72, Cl. 331-94.500.
 Schumacher, Ferdinand; Weiste, Heinrich; and Weiste, Helmut. Dosage device for pneumatically operating distribution systems. 3,656,661, 4-18-72, Cl. 222-194.
 Schumacher, Gunter. Grain-lifter adjusting devices. 3,633,350, 1-11-72, Cl. 56-313.
 Schumacher, Gustav A.: *See*—
 Bier, Kenneth C.; Frankowski, Jerome J.; and Schumacher, Gustav A., 3,646,600.
 Schumacher, Harold W. Silo unloader discharge tubes. 3,655,245, 4-11-72, Cl. 302-59.
 Schumacher, Heinz Otto. Process and apparatus for de-sliming vegetable oils. 3,696,030, 10-3-72, Cl. 210-21.000.
 Schumacher, Ignatius; and Baker, Joseph W., to Monsanto Company. Halogenated mandelanilide carbanilates. 3,632,829, 1-4-72, Cl. 260-472.
 Schumacher, James D.: *See*—
 Jacobs, Harold; Kerecman, Albert J.; and Schumacher, James D., 3,691,478.
 Schumacher, Joseph S., to International Minerals & Chemical Corporation. Method for reducing pollution in foundries. 3,646,987, 3-7-72, Cl. 164-5.
 Schumacher, Percy W., Jr., to Murphy, G. W., Industries, Inc. Drill bit. 3,658,141, 4-25-72, Cl. 175-364.
 Schumacher, Stephen J.: *See*—
 Iantorno, James F.; Wagner, John; and Schumacher, Stephen J., 3,671,920.
 Schumacher, Walter, to Alberts Plating Works, Inc. Conversion kit for electroplating apparatus. 3,663,410, 5-16-72, Cl. 204-213.000.
 Schumacher, Walter C., to General Electric Company. Reinforced electrical contact. 3,662,324, 5-9-72, Cl. 339-255.
 Schumacher, Walter C., to General Electric Company. Grounding device for mounting strap. 3,680,031, 7-25-72, Cl. 339-14.00r.
 Schumacher, Warren C.: *See*—
 Maca, Paul Donald; and Schumacher, Warren C., 3,653,108.
 Schumag Schumacher Metallwerke Gesellschaft mit beschränkter Haftung: *See*—
 Greven, Johann, 3,693,395.
 Hilgers, Arnold, 3,690,133.
 Schumaker, Norman Edwin: *See*—
 Kuhn, Matthew; and Schumaker, Norman Edwin, 3,667,004.
 Schuman, Leroy J.: *See*—
 Dediemar, Ronald B.; and Schuman, Leroy J., 3,700,182.
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 Schumann, John L.; Schindeler, John W.; and Rosen, Milton, to Belco Pollution Control Corporation. Pulse operated electrostatic precipitator. 3,641,740, 2-15-72, Cl. 55-105.
 Schumann, Joseph M.: *See*—
 Cook, Ralph J.; Moline, Clifford C.; and Schumann, Joseph M., 3,707,146.
 Schumann, Paul A., Jr.: *See*—
 Duffy, Michael C.; Schumann, Paul A., Jr.; and Yeh, Tsu-Hsing, 3,655,457.
 Schumann, Robert J.; and Priest, Wayne A., to Durwood, Inc. Automatic control system for programming electrically operated theatre equipment. 3,663,826, 5-16-72, Cl. 307-39.
 Schumann, Robert T.: *See*—
 Lieberman, Lee M.; and Schumann, Robert T., 3,655,288.
 Schumann, Robert W., to Fabri-Tek Instruments, Inc. Information display system. 3,662,373, 5-9-72, Cl. 340-324.
 Schummer, Anton: *See*—
 Kapell, Gerhard; and Schummer, Anton, 3,693,236.
 Schunack, Ingenieur Johannes, to Morat, Franz, GmbH., Firma. Method for making a steering strip for the automatic control of machines. 3,643,010, 2-15-72, Cl. 178-5.2.
 Schunda, Anton: *See*—
 Bleibtreu, Alexander; Schunda, Anton; and Poppl, Max, 3,632,908.
 Schundehutte, Karl-Heinz; and Trautner, Kersten. Dyestuffs and processes for their production and use. 3,687,964, 8-29-72, Cl. 260-303.000.
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 Clossner, John J.; Schupack, Morris; and Marlowe, Eugene W., 3,633,328.
 Schupan, Fred A., to AMF Incorporated. Centrifugal clutch assembly. 3,680,403, 8-1-72, Cl. 74-230.17e.
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 Schur, Barbara Ellen. Board game apparatus. 3,674,274, 7-4-72, Cl. 273-135.0ac.
 Schuran, Fred A., to AMF Incorporated. Racing centrifugal clutch assembly. 3,685,366, 8-22-72, Cl. 74-230.17e.
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 Schuringa, Leffert: *See*—
 Spiessens, Raymond Francois; Schuringa, Leffert; and Verboven, Ghislain Felix Alfons Arthur, 3,646,308.
 Schurman, Peter T., to Plastic Forming Company, Inc., The. Apparatus for molding container parts. 3,659,999, 5-2-72, Cl. 425-326.
 Schurman, Walter R., to United States of America, Atomic Energy Commission. Method for making flexible electrical connections. 3,639,978, 2-8-72, Cl. 29-628.
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 Schurr, Robert E., to Rieke Corporation. Fluid pump. 3,661,478, 5-9-72, Cl. 417-555.000.
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 Schurter, Gary Lee: *See*—
 Cooper, James Joseph, Jr.; and Schurter, Gary Lee, 3,699,497.
 Schussler, Hans-Joachim; and Scharf, Rolf, to Henkel & Cie G.m.b.H. Anti-foaming compositions and cleaning compositions containing them. 3,696,057, 10-3-72, Cl. 252-544.000.
 Schussler, Robert J., to Schussler, Robert J., mesne. Rotary work table. 3,633,443, 1-11-72, Cl. 74-822.
 Schussler, Robert J.: *See*—
 Schussler, Robert J., 3,633,443.
 Schuster, Donald E. Bolster hoist for a dump vehicle. 3,704,913, 12-5-72, Cl. 298-22.00j.
 Schuster, Donald R.: *See*—
 Buhl, Donald E.; and Schuster, Donald R., 3,634,608.
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 Schuster, Gregor: *See*—
 Eckert, Konrad; Knapp, Heinrich; Schwartz, Reinhard; and Schuster, Gregor, 3,680,535.

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 Schafer, Karl; Reich, Friedrich; and Schuster, Hans, 3,653,957.
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 Ott, Karl-Heinz; Schuster, Herbert; Meckel, Walter; Dinges, Karl; and Muller, Erwin, 3,641,209.
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 Falkenstein, Georg; Peine, Hans Georg; Doerfel, Helmut; Raff, Paul; and Schuster, Ludwig, 3,703,595.
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 Rocher, Edouard Y.; and Schuster, Stanley E., 3,657,699.
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 Blachut, Theodore J.; Smialowski, Antoni J.; Schut, Gerhardus H.; and Carman, Philip D., 3,692,405.
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 Stewart, John L.; Mazzoni, Renato J.; and Schutrum, Lester F., 3,683,974.
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 Bjelland, John Louis; Flynn, Floyd W.; and Schutt, Norman C., 3,690,780.
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 Triolo, Peter T.; and Schutte, Harlan H., 3,672,806.
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 Schutte, Harry D., 3,677,478.
- Schutter, Dieter, to Berstorff, Hermann, Maschinenbau G.m.b.H. Extruder screen plate change-over mechanism. 3,653,419, 4-4-72, Cl. 146-174.
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- Schutz, Gerbard Alfred: *See*—
 Huber, Max; and Schutz, Gerbard Alfred, 3,681,932.
- Schutz, Heinz-Dieter: *See*—
 Neumann, Wolfram; Muller, Gerhard; Ranz, Erwin; Von Rintelen, Harald; and Schutz, Heinz-Dieter, 3,671,252.
- Ranz, Erwin; Kampfer, Helmut; Von Rintelen, Harald; Schutz, Heinz-Dieter; Mayer, Dietmar; and Sasse, Klaus, 3,660,093.
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 Riemhofer, Franz; Dittmann, Walter; Hornung, Karl-Heinz; and Schutze, Ernst-Christian, 3,668,275.
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 Bown, Delos E.; Neureiter, Norman P.; Schutze, Henry G.; and Williams, Herschel, 3,691,132.
- Schutze, Horst, to Vereinigte Flugtechnische Werke-Fokker G.m.b.H. Two-way valve. 3,645,287, 2-29-72, Cl. 137-219.
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 Castner, Charles S., 3,631,625.
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- Castner, Charles S., 3,654,327.
- Castner, Charles S., 3,679,609.
- Castner, Charles S., 3,694,365.
- Schuyler, Jacque G.: *See*—
 Schuyler, Richard C.; Schuyler, Jacque G.; Griffin, Margaret E.; Tobias, William E.; and Finney, Jack R., 3,643,395.
- Schuyler, Peter M.: *See*—
 Grego, Peter; Kozlowski, Theodore R.; and Schuyler, Peter M., 3,650,720.
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 Mecca, Sebastian B., 3,632,596.
- Schwab, Andath M. Apparatus and method for applying sterile cover to temperature sensitive probe. 3,650,153, 3-21-72, Cl. 73-343.
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 Janzon, Karl-Heinz; Simon, Eugen Meyer; and Schwab, Heinrich, 3,691,089.
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 Haucke, Paul A.; Rosenfeld, Seymour; Schwab, Ronald W.; and Mazzeo, Charles F., 3,664,173.
- Schwabe, Herman, Inc.: *See*—
 Haas, Edgar; and Kottsieper, Edward, 3,682,029.
- Schwabische Huttenwerke Gesellschaft mit beschränkter Haftung: *See*—
 Gessler, Hans, 3,666,117.
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 Rogers, Alan B.; and Schwall, Donald V., 3,681,094.

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 Webb, Bryant F.; and Schwalm, Bruce D., 3,640,473.
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 Davis, Donald A.; and Galluzzo, Anthony, 3,700,300.
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 Porter, Ralph Frederick; Schwan, Judith A.; and Gates, John W., Jr., 3,639,417.
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 Burch, Homer A.; and Schwan, Thomas J., 3,665,032.
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- Schwan, Werner: *See*—
 Ramisch, Emil; and Schwan, Werner, 3,637,532.
- Schwanck, Gunter: *See*—
 Ruster, Heinz; and Schwanck, Gunter, 3,637,949.
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 Heppelmann, Arnold A.; Judd, James L.; and Schwanke, Paul J., 3,632,054.
- Schwarb, Gustav: *See*—
 Bastian, Jean-Michel; and Schwarb, Gustav, 3,654,286.
- Bourquin, Jean-Pierre; Schwarb, Gustav; and Waldvogel, Erwin, 3,682,930.
- Schwarckopf Development Corporation: *See*—
 Palme, Rudolf, 3,660,053.
- Schwartz, Albert B.: *See*—
 Sherry, Howard S.; and Schwartz, Albert B., 3,677,698.
- Schwartz, Anthony M.: *See*—
 Fischbein, Irwin W.; Galligan, John D.; Schwartz, Anthony M.; and Youngquist, William S., 3,638,308.
- Schwartz, Benjamin S.: *See*—
 Evans, George L.; Kronish, Donald P.; Prevorsek, Metka; Schwartz, Benjamin S.; and Zuriff, Lee S., 3,649,461.
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 Berman, Richard M.; Schwartz, Bernard; and Bethke, Lyman W., 3,636,549.
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 Schwartz, George C., 3,697,220.
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 Reimpel, Uwe; Scheidig, Helmut; Wolfgang, Hans Friedrich; and Schwartz, Domke, 3,689,680.
- Schwartz, Edwin L., to Rite Autotronics Corporation. Electrical connector assembly and timing light embodying same. 3,668,611, 6-6-72, Cl. 339-75.00r.
- Schwartz, Eli: *See*—
 Chin, James; Witt, Harry S.; and Schwartz, Eli, 3,700,481.
- Schwartz, Erich: *See*—
 Ricker, Ernst; Schmidt, Franz; and Schwartz, Erich, 3,640,945.
- Schwartz, Frank R.: *See*—
 Aaronson, Henry A.; Schwartz, Frank R.; and Sukornick, Bernard, 3,636,882.
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 Erich, Rosenthal, 3,695,392.
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 Brune, Werner; Schwartz, Gunter; Dull, Ernst Hermann; and Polly, Edgar, 3,665,393.
- Schwartz, Hans-Jurgen: *See*—
 Winsel, August; and Schwartz, Hans-Jurgen, 3,649,467.
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 Arsem, Alvan D.; Schwartz, Harold O.; and Ippolito, Anthony C., 3,706,837.
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 Tucker, Harold H.; and Schwartz, Irwin, 3,632,290.
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 Lee, Robert L.; Schwartz, Jacob L.; and Klepa, Peter P., 3,694,919.
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 Robinder, Ronald C.; Rowe, William A.; and Schwartz, James W., 3,672,893.
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 Spanel, Abram N.; and Schwartz, John L., 3,670,672.
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 Maffia, Doro; and Schwartz, Linus G., 3,666,032.
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 Womble, George E.; and Schwartz, Lorin H., 3,633,680.
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 Zinnes, Harold; Schwartz, Martin L.; and Shavel, John, Jr., 3,704,298.
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Bauer, Erich; Reichard, Franz; and Schwarz, Ferdinand, 3,702,308.
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Kurtz, Peter; and Schwarz, Herbert, 3,688,003.
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Engel, Walter; Flachsbarth, Dieter; and Schwarz, Hermann, 3,667,042.
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Chien, James C. W.; and Schwarz, Robert J., 3,640,946.
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Eck, Herbert; Schwarzbauer, Hans; and Spes, Hellmuth, 3,647,871.
- Schwarzbeck, John G., to Western Gear Corporation. Torque controlled power roller for conveyor system. 3,698,539, 10-17-72, Cl. 198-127.000.
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Peterli, Hans Jakob; Keller, Ernst; and Schwarzenbach, Kurt, 3,665,031.
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Busch, Walter; and Schwarzer, Franz, 3,703,570.
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Meyer, Heinz; Schmid, Dieter; Schwarzer, Hans; and Twittenhoff, Hansjoachim, 3,644,612.
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Schwarzkopf, Anton, 3,698,710.
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Genwerich, Max; Wagner, Siegfried; and Schwarzkopf, August, 3,688,974.
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Benesovsky, Friedrich, 3,689,795.
- Bodem, Johann, 3,688,368.
- Hennig, Walter, 3,649,355.
- Koelbl, Franz, 3,684,463.
- Machenschalk, Rudolf; and Wagner, Herbert, 3,697,798.
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Lange, Fritz-Walter, 3,647,351.
- Schwarzler, Hans-Jürgen, to Vereinigte Flugtechnische Werke-Fokker GmbH. Control flap arrangement. 3,677,504, 7-18-72, Cl. 244-42.0cc.
- Schwarzmann, Matthias: See—
Fromm, Hermann Dieter; Leonhard, Karl Wilhelm; Mohr, Rudolf; Schwarzmann, Matthias; and Woehle, Horst, 3,657,236.
- Hartmann, Hans Joerg; Leonhard, Karl Wilhelm; Ohlinger, Manfred; and Schwarzmann, Matthias, 3,687,851.
- Schwarzott, Carol J.: See—
Patterson, James A.; McMurray, Raymond C.; and Schwarzott, Carol J., 3,632,496.
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Dohmeier, Arnold; and Schwedhelm, Diether, 3,673,765.
- Schwedland, Ronald P.: See—
Giesman, Richard C.; and Schwedland, Ronald P., 3,635,587.
- Schwee Leonard J.: See—
Irons, Henry R.; and Schwee Leonard J., 3,660,828.
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Sizer, Phillip S.; and Schwegman, Harry E., 3,637,012.
- Sizer, Phillip S.; and Schwegman, Harry E., 3,669,190.
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Browatzki, Kurt; Gref, Hans; Herzhoff, Peter; Maus, Fritz; Platz, Stephan; Schaum, Gustav; Schweicher, Wolfgang; and Wasser, Willi, 3,676,178.
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Zuhlike, Gerhard, 3,705,454.
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Best, Peter; and Schweigl, Othmar Friedrich, 3,684,723.
- Schweiker, George C.: See—
Chadha, Rajendra N.; Arthur, Ralph P.; and Schweiker, George C., 3,697,489.
- Schweiker, Malcolm A.; and Watson, Wayne C., to American Olean Tile Company, Inc. Tile edge grinding machine. 3,631,632, 1-4-72, Cl. 51-76.
- Schweikert, Karl: See—
Bauerle, Oskar; Kubel, Wilfried; Munster, Ernst; Schweikert, Karl; and Strobl, Georg, 3,705,997.
- Schweikher, Ernest W., to Chromium Corporation of America. Method of producing cylinder liners with different degrees of roughness in high and low pressure areas. 3,657,078, 4-18-72, Cl. 204-35.
- Schweikl, Ludwig: See—
Leibach, Heinrich; Schweikl, Ludwig; and Lottes, Paul, 3,685,738.
- Schweis, Robert W., to Crutcher-Resources Corporation. Side-loading self-propelled material transporting device. 3,685,673, 8-22-72, Cl. 214-77.000.
- Schweiss, Dieter; and Long, Loren M., to Parke, Davis & Company. Novel xanthine compounds and means for obtaining the same. 3,641,010, 2-8-72, Cl. 260-240.
- Schweitzer, Bernard P.: See—
Zimmerman, Robert L.; Schweitzer, Bernard P.; Garvin, Hugh L.; Pedinoff, Melvin E.; and Waldner, Michael, 3,668,662.
- Schweitzer, Bernard P., to Hughes Aircraft Company. Non-interacting complementary coding system. 3,681,579, 8-1-72, Cl. 235-181.000.
- Schweitzer, Cameron C.: See—
Callender, Jack E.; Halbedel, Don Edward; Bagwell, Benjamin J.; Horning, James Leroy; Lissakers, Erik Axel; Long, Joseph Harold; and Schweitzer, Cameron C., 3,702,381.
- Schweitzer, E. O., Manufacturing Co., Inc.: See—
Schweitzer, Edmund O., Jr., 3,676,740.
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Schweitzer, Hans E.; and Huber, Ernst, 3,634,988.
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- Schweizeische Aluminum AG: See—
Limpinsel, Gunter; and Fricker, Karl, 3,658,261.
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Benz, Jakob; and Schweizer, August, 3,660,386.
- Frei, Alfred; and Schweizer, August, 3,700,653.
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- Schweizer, Ernst: See—

- Schmidt, Paul; Eichenberger, Kurt; and Schweizer, Ernst, 3,636,041.
 Schmidt, Paul; Eichenberger, Kurt; and Schweizer, Ernst, 3,658,807.
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 Schweizer, Gottfried: See—
 Smolka, Thomas G.; and Schweizer, Gottfried, 3,685,847.
 Schweizer, Max Norman; and Moran, Arthur Stone. Self-lubricated shaft bearing for linear and rotary motion. 3,674,324, 7-4-72, Cl. 308-6.00r.
 Schweizer, Max Norman. Shaft bearing assembly having interchangeable parts. 3,687,509, 8-29-72, Cl. 308-72.000.
 Schweizer, Peter; and Thaler, Hans, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the condensation in the solid state of condensation polymers or the initial products thereof. 3,657,388, 4-18-72, Cl. 260-873.
 Schweizer, Rolf, to Fahrni, Fred. Apparatus for feeding and/or discharging a press. 3,661,074, 5-9-72, Cl. 100-215.
 Schweizer, Walter: See—
 Haide, Karl; and Schweizer, Walter, 3,633,364.
 Schweizerhof, Sigfrid, to Licentia Patent-Verwaltungs-G.m.b.H. Electroplating apparatus. 3,642,602, 2-15-72, Cl. 204-211.
 Schweizerische Industrie-Gesellschaft: See—
 Bolli, Hans-Ulrich, 3,638,522.
 Egli, Alwin, 3,667,351.
 Fluck, Rene, 3,638,391.
 Fluck, Rene, 3,638,777.
 Heinzer, Hans, 3,672,120.
 Kneller, Klaus; Poncet-Montange, Daniel; Prost, Jean-Louis; and Trub, Jean, 3,704,972.
 Kopp, Georg, 3,631,651.
 Loewenthal, Horst, 3,667,653.
 Otto, Alfred; Klassen, Horst; and Steiner, Daniel, 3,645,364.
 Schwellenbach, Donald D. Apparatus for making concrete blocks. 3,671,165, 6-20-72, Cl. 425-445.000.
 Schwemer, Warren C.: See—
 Reed, Madison W., Jr.; and Schwemer, Warren C., 3,647,551.
 Schwemin, Arnold J., to Optical Research and Development Corporation. Binoculars having stabilizing reflectors. 3,677,618, 7-18-72, Cl. 350-16.000.
 Schwemmer, Martin W.: See—
 Calzaferri, Hans; Kunz, Werner; Schwemmer, Martin W.; and Wyler, Max, 3,647,353.
 Schwencke, Herman F., to Shell Oil Company. Method and apparatus for winding resin-impregnated filaments to reduce entrained air. 3,649,402, 3-14-72, Cl. 156-175.
 Schwendeman, Wayne C., Jr. Key actuated switch. 3,705,369, 12-5-72, Cl. 335-206.000.
 Schwenden, Carl A. Multi-purpose, multi-voltage transformer. 3,657,678, 4-18-72, Cl. 336-160.
 Schwender, Charles F.: See—
 Shavel, John, Jr.; and Schwender, Charles F., 3,649,691.
 Schweng, Otto; Smejkal, Hellmuth; Vereb, Hans; and Eicher, Karl, to Vereinigte Österreichische Eisen- und Stahlwerke Aktiengesellschaft. Method for producing a nozzle-head for a water-cooled blowing lance. 3,662,447, 5-16-72, Cl. 29-157.
 Schwengel, Steven: See—
 Hatch, Edwin B.; and Schwengel, Steven, 3,651,880.
 Schwenger, Willi: See—
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 Schwenk, Arthur; Baron, Herschel; and Jacobs, Herbert V., to Jacobs Machine Corporation. Modified stacker. 3,632,106, 1-4-72, Cl. 271-68.
 Schwenk, William E., to International Paper Company. Method of making side seam sealed container. 3,654,842, 4-11-72, Cl. 93-94.
 Schwenker, David G.: See—
 Guilbault, Lawrence J.; and Schwenker, David G., 3,660,136.
 Schwer, Frederick W.; and Kean, Chester E., to California and Hawaiian Sugar Company. Method of making sugar and sugar products. 3,655,442, 4-11-72, Cl. 127-58.
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 Schwerdhofer, Hans; and Schulz, Horst, to Fichtel & Sachs AG. Multiple-speed hub. 3,661,034, 5-9-72, Cl. 74-752.
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 Schwerdhofer, Hans Joachim, to Fichtel & Sachs AG. Two speed bicycle transmission with brake. 3,648,809, 3-14-72, Cl. 192-6.
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 Schwerdhofer, Hans Joachim; and Wolf, Gerhard Max, to Fichtel & Sachs AG. Bicycle and gear shifting arrangement for the same. 3,701,546, 10-31-72, Cl. 280-289.000.
 Schwerdt, Paul: See—
 Burckhardt, Manfred H.; and Schwerdt, Paul, 3,651,901.
 Burckhardt, Manfred H.; and Schwerdt, Paul, 3,653,471.
 Schwerdtel, Wulf: See—
 Swodenk, Wolfgang; Schwerdtel, Wulf; Losacker, Paul; and Engelhard, Bruno, 3,673,265.
 Schwerdtfeger, Gunter; and Kammerling, Bruno. Adjustable impact casing for a shaft furnace. 3,693,952, 9-26-72, Cl. 263-29.000.
 Schweri, Raphael Joseph, to Celanese Coatings Company. Post-dipping of acidic deposition coatings. 3,647,567, 3-7-72, Cl. 148-6.15.
 Schwerin, Gunther, to Bosch, Robert, G.m.b.H. Apparatus for regulating a first flow depending on a controlled second flow. 3,680,581, 8-1-72, Cl. 137-101.000.
 Schwerfeger, Owen J.; and Brill, Frank D., to Seeburg Corporation of Delaware. The Apparatus for providing a predetermined volume of liquid. 3,672,479, 6-27-72, Cl. 194-13.000.
 Schweser, Frederick G. Floating wheel and power assembly motorcycles. 3,631,936, 1-4-72, Cl. 180-32.
 Schweser, Frederick G. Fun bubby vehicle. 3,632,156, 1-4-72, Cl. 296-31.
 Schwiebert, Phillip D.; and Steck, Edward S., to MacLean-Fogg Lock Nut Co. Container retaining latch mechanism. 3,667,401, 6-7-72, Cl. 105-366.00d.
 Schwiener Engineering, Inc.: See—
 Hadley, Benjamin H., 3,645,135.
 Schwienerbaker, Georg, to Ciba-Geigy AG. Process for the development of exposed photographic material containing silver halide. 3,694,209, 9-26-72, Cl. 96-50.000.
 Schwieter, Ulrich: See—
 Chodnek, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; Schwieter, Ulrich; and Suchy, Milos, 3,686,222.
 Chodnek, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; and Schwieter, Ulrich, 3,705,187.
 Chodnek, Madhukar Subraya; Thommen, Hans; and Schwieter, Ulrich, 3,705,177.
 Gutmann, Hugo; Marbet, Roman; and Schwieter, Ulrich, 3,687,990.
 Manz, Ulrich; and Schwieter, Ulrich, 3,659,024.
 Pfiffner, Albert; and Schwieter, Ulrich, 3,697,543.
 Ruegg, Rudolf; and Schwieter, Ulrich, 3,665,039.
 Schwieter, Ulrich; Thommen, Hans; and Weiser, Harald, to Hoffman-La Roche Inc. Pigmentation of egg yolk. 3,681,082, 8-1-72, Cl. 99-4.000.
 Schwieterman, Richard A.: See—
 Broman, Carl L.; and Schwieterman, Richard A., 3,688,560.
 Schwind, Herbert. Appliance for diagnosis and therapeutic eye treatment. 3,647,287, 3-7-72, Cl. 351-38.
 Schwing, Friedrich. Bucket mounting for trench hoe. 3,656,640, 4-18-72, Cl. 214-138.
 Schwing, Friedrich; and Meinken, Bernard. Device for the spreading of concrete. 3,685,543, 8-22-72, Cl. 137-615.000.
 Schwing, Friedrich W.: See—
 Verheul, Cornelis, 3,640,303.
 Schwinn Bicycle Company: See—
 Fritz, Albert J.; and Schwinn, Rudolph L., 3,664,027.
 Schwinn, Rudolph L.: See—
 Fritz, Albert J.; and Schwinn, Rudolph L., 3,664,027.
 Schwinum, Ernst: See—
 Mader, Rudolf Mayer; and Schwinum, Ernst, 3,704,283.
 Schwisow, Vern L., to Hydro Drive Corporation. Interlocking variable pitch propeller assembly. 3,645,644, 2-29-72, Cl. 416-157.
 Schwizer, Kilian: See—
 Koch, Evaristo, 3,664,475.
 Schwochow, Friedrich; Heinze, Gerhard; and Weber, Horst, to Farbenfabriken Bayer Aktiengesellschaft. Process for preparation of faujasites-type zeolites. 3,685,963, 8-22-72, Cl. 423-329.00n.
 Schwoegler, Edward J., to Cupples Container Co. Method for impregnating polymer beads with a blowing agent. 3,650,992, 3-21-72, Cl. 260-2.5.
 Schwoegler, Edward J.; and Ronden, Clifford P., to Cupples Container Co. Expandable polystyrene and method for producing same. 3,682,844, 8-8-72, Cl. 260-2.50b.
 Schworer, Emil, to Apparatebau Aktiengesellschaft. Double combustion firing. 3,669,041, 6-13-72, Cl. 110-18.
 Schwoyer, William L., to Commercial Solvents Corporation. Explosive slurry having constant detonation velocity over a wide temperature range. 3,676,234, 7-11-72, Cl. 149-38.000.
 Schwuttke, Guenter H.: See—
 Hoogendoorn, Cornelius; Moody, Mattie; and Schwuttke, Guenter H., 3,644,154.
 Schwuttke, Guenter H.: See—
 Brack, Karl; Gorey, Edward F.; and Schwuttke, Guenter H., 3,666,548.
 Schwyn, Raymond E.; and Berg, Morris, to General Motors Corporation. Metallizing process for glass-free ceramics. 3,637,435, 1-25-72, Cl. 117-227.

- SCI Systems, Inc.: See—
 Coe, Ronald J., 3,678,291.
 Sci-Med, Inc., mesne: See—
 Blomquist, Arnold W., 3,675,490.
 Sci-Tek Computer Center, Inc.: See—
 Andreas, Henry L., 3,705,772.
 Sciaccero, Rinaldo: See—
 Dominick, George G.; Sciaccero, Rinaldo; Wimpffen, George I.; and Kardos, Theodore L., 3,670,955.
 Dominick, George G.; Sciaccero, Rinaldo; Weber, Leonard J.; Wimpffen, George I.; and Kardos, Theodore Louis, 3,693,870.
 Sciaky, Roberto: See—
 Baldrati, Giuliana; Consonni, Alberto; and Sciaky, Roberto, 3,674,817.
 Sciambi, Attilio F., Jr., to Radiation Incorporated. Independent mode antenna feed system. 3,696,434, 10-3-72, Cl. 343-776.000.
 Sciavolino, Frank C.; Routien, John B.; Tynan, Edward J.; and Celmer, Walter D., to Pfizer Inc. Antibiotic CP-21,635. 3,655,876, 4-11-72, Cl. 424-117.
 Scibilia, Peter A.: See—
 Reed, John M.; Reynard, John M.; and Scibilia, Peter A., 3,705,540.
 Science Accessories Corporation: See—
 Whetstone, Albert L., 3,647,962.
 Whetstone, Albert L.; and Fine, Samuel, 3,648,277.
 Science Associates, Inc.: See—
 Hart, Richard T., 3,685,040.
 Science Research Council: See—
 Sheldon, Robert; and Stapleton, Geoffrey Brian, 3,656,231.
 Wilson, Martin Norman; Smith, Peter Faraday; Walters, Colin Russell; Lewin, John David; Broomfield, Robert Walter; and Graham, Robert Leslie, 3,662,093.
 Science Spectrum Inc.: See—
 Berkman, Richard M.; and Schoefer, Peter B., 3,701,620.
 Wyatt, Philip J.; Trundle, Albert S.; and Bruckner, Judith B., 3,654,437.
 Wyatt, Philip J.; Trundle, Albert S.; and Bruckner, Judith B., 3,654,438.
 Science Union et Cie, Societe Francaise de Recherche Medicale: See—
 Beregi, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Laubie, Michel, 3,651,122.
 Malen, Charles; and Laubie, Michel, 3,657,276.
 Malen, Charles; Danree, Bernard; and Laubie, Michel, 3,705,167.
 Scieno, Inc.: See—
 Vanderjagt, John A., 3,700,359.
 Sciencetech, Inc.: See—
 Zimmerer, Robert W., 3,680,650.
 Scientific and Applied Research Ltd., Center of: See—
 Delmouso, Alkis Alexander, 3,692,639.
 Scientific Angius Inc.: See—
 Martuch, Leon L., 3,653,143.
 Scientific Research Instruments Corporation: See—
 Fergusson, Gordon J.; and Wahrhaftig, Austin L., 3,658,053.
 Scientific Security Systems, Incorporated: See—
 Riley, Robert E., Jr., 3,665,445.
 Scientific Specialties, Ltd.: See—
 Katz, George M.; and Levy, Arthur L., 3,656,856.
 Scientific Tube Products, Inc.: See—
 Flynn, Vincent J., 3,645,955.
 Scientific-Atlanta, Inc.: See—
 Hart, James A., Jr.; and Clayton, Lorimer, Jr., 3,636,457.
 Hart, James A., Jr., 3,636,460.
 Robinson, Glen P., Jr.; and Hutchins, Samuel F., 3,646,565.
 Scieszinski, James Leo: See—
 Zoot, Robert M.; and Scieszinski, James Leo, 3,679,307.
 Scigliano, Joseph J.: See—
 Steele, Roger B.; Katzakian, Arthur, Jr.; Scigliano, Joseph J.; and Barry, Jude W., 3,635,869.
 Scinta, Anthony C., to Trico Products Corporation. Wiper arm. 3,660,862, 5-9-72, Cl. 15-250.23.
 Scintrex Limited: See—
 Seigel, Harold O., 3,636,435.
 Scio Cabinet Company: See—
 Loy, George W., 3,690,995.
 Scipioni, Andrea; and Gambaretto, Giampaolo, to Montecatini Edison S.p.A. Process for the production of 1,1,1-trifluoro-2-monochloro-2-monobromoethane by debromination of 1,1,1-trifluoro-2-monochloro-2,2-dibromoethane. 3,636,169, 1-18-72, Cl. 260-653.
 Scislowicz, Henry M., to Abbott Laboratories. Retaining clip for catheter sheath. 3,672,367, 6-27-72, Cl. 128-214.4.
 Sciuchetti, Larry L., to Burroughs Corporation. Switching matrix control circuit for handling requests on a first-come first serve priority basis. 3,689,897, 9-5-72, Cl. 340-172.500.
 Sciorba, Edward; and Chiappone, Sal, to Ring Products, mesne. Finger glide bar. 3,638,525, 2-1-72, Cl. 84-319.
 Sciuto, Joseph, Jr.: See—
 Hartman, Leonard; and Sciuto, Joseph, Jr., 3,674,052.
 Hartmann, Leonard; and Sciuto, Joseph, Jr., 3,648,970.
 Sciuto, Joseph S., Jr.: See—
 Hartmann, Leonard; and Sciuto, Joseph S., Jr., 3,684,241.
 Sciafani, Ben J., to Scovill Manufacturing Company, mesne. Attaching apparatus for chandelier arms. 3,683,171, 8-8-72, Cl. 240-78.00f.
 SCM Corporation: See—
 Anderson, Carl P.; and Hanson, Thomas E., 3,643,777.
 Anderson, Carl P., 3,643,778.
 Anderson, Carl P.; Kennedy, Charles H.; and Perry, Donald S., 3,643,779.
 Baum, Harold M., 3,636,927.
 Bledsoe, James O., Jr., 3,671,551.
 Bordenca, Carl, 3,658,902.
 Bordenca, Carl, 3,681,462.
 Bordenca, Carl, 3,703,554.
 Bordenca, Carl; and Derfer, John M., 3,644,645.
 Cappotto, Samuel D.; Diamond, Herrick R.; and Zeamer, Aaron C., 3,642,109.
 Cermak, Robert E., 3,647,480.
 De Weese, Duane G.; and Hanck, Ronald C., 3,676,148.
 Eppler, Richard Andrew, 3,676,204.
 Eppler, Richard Andrew, 3,679,464.
 Gary, Wilbur, 3,676,487.
 Gibson, Elmer B.; and Stark, Eric K., 3,650,444.
 Gilchrist, Allan E., 3,671,464.
 Gilchrist, Allan E., 3,679,565.
 Gilchrist, Allan E., 3,682,814.
 Guzak, John, Jr., 3,648,247.
 Guzak, John, Jr., 3,673,957.
 Hall, Roger P., 3,644,161.
 Hall, Roger P., 3,655,481.
 Hall, Roger P., 3,658,620.
 Hall, Roger P., 3,666,591.
 Hall, Roger P.; Pratt, Ivor; and Young, Richard A., 3,669,796.
 Hall, Roger P., 3,669,825.
 Hamby, Clayton B.; Barrett, Charles W.; and Derfer, John M., 3,660,512.
 Harwood, James, 3,637,523.
 Hedman, Clarence L., Jr., 3,663,388.
 Hedman, Clarence L., Jr.; and Myrenne, Karl-Dieter S., 3,674,341.
 Holicky, Donald F.; Hahn, Kenneth G.; and Gasman, Robert C., 3,632,796.
 Holicky, Donald F.; and Hall, Roger P., 3,658,670.
 Jalics, George, 3,637,597.
 Kuksa, Henry R., 3,689,064.
 Marshall, Ray A., 3,639,729.
 Marshall, Ray A., 3,659,176.
 McGinniss, Vincent D., 3,702,812.
 Meyers, Raymond E.; and Eubanks, Edgar W., 3,678,004.
 Mihojevich, Steven; Zerfans, Arthur S.; Ostensen, Ralph G.; Berggren, Albin F., Jr.; and Glaser, Ronald A., 3,698,706.
 Miller, George J., 3,667,987.
 Miller, George J., 3,687,708.
 Nikoloff, Christian, 3,665,855.
 Norris, Max E., 3,671,459.
 Norris, Max E., 3,702,307.
 Page, Ray A., 3,657,788.
 Puhk, Heino, 3,678,097.
 Raymond, Douglas G., 3,669,727.
 Reynolds, Eugene E., 3,668,378.
 Sato, Jack, 3,669,644.
 Watson, James W.; and Payne, Billy D., 3,702,777.
 Zimmerman, Robert C.; and Lindsay, James R., 3,663,781.
 SCM Corporation, mesne: See—
 Harwood, James, 3,634,473.
 Scodeller, Gino L. Reversible ratchet wrench with interlocked assembly. 3,659,484, 5-2-72, Cl. 81-63.000.
 Scofield, John W.: See—
 Santirocco, Louis J.; Rose, Duane L.; and Scofield, John W., 3,672,664.
 Scoggin, Barry A.: See—
 Knell, Harvey A.; Olthoff, James A.; Scoggin, Barry A.; and Smith, Roger M., 3,706,143.
 Scoggin, Baxter I., Jr.; Vaughan, Woodrow E.; and Reed, Gerald D., to Modern Plastic Sales. Rake head. 3,654,754, 4-11-72, Cl. 56-400.17.
 Scoggin, Jack S., to Phillips Petroleum Company. Production and recovery of a solid mixed homo-and copolymer. 3,644,583, 2-22-72, Cl. 260-878.
 Scoggin, Jack S., to Phillips Petroleum Company. Polymerization of olefins. 3,658,780, 4-25-72, Cl. 260-93.7.
 Scogin, Clifford A. Incinerator. 3,631,823, 1-4-72, Cl. 110-8.
 Scola, Daniel A.; and Roth, Hilton A., to United Aircraft Corporation. Treatment of carbon fibers. 3,660,140, 5-2-72, Cl. 117-47.
 Solar Press Limited, The: See—
 Alderton, Brian, 3,635,557.
 Scolaro, Donald A.: See—
 Sullivan, Wayne A.; and Scolaro, Donald A., 3,648,067.
 Scolastico, Carlo: See—
 Gomarasca, Piero; and Scolastico, Carlo, 3,694,470.

- Scole, Adrien: *See*—
Bernard, Georges; and Scole, Adrien, 3,633,069.
- Scollick, Neil Montgomery; and Thorpe, Eric Frederick James, to Pfizer Inc. Preparation of N-(2-alkylthioethyl) nitroimidazoles. 3,689,502, 9-5-72, Cl. 260-309.000.
- Scollins, John A., to United States of America, Army. Sectioned rotating ring. 3,687,079, 8-29-72, Cl. 102-49.200.
- Scope Incorporated: *See*—
Drapeau, Raul E., 3,646,570.
Williams, Richard E.; and Gartzke, Fred J., 3,649,920.
Williams, Richard E.; and Holford, Warren L., 3,668,559.
- Scope Incorporated, *mesne*: *See*—
Rott, John G., 3,685,629.
- Scope Lock, Inc.: *See*—
Boots, Patrick R.; and Gaddis, Kenneth W., 3,698,135.
- Scopelite, Thomas M.: *See*—
Longland, John R.; Williams, Roy M., Jr.; Sutton, Howard D.; and Scopelite, Thomas M., 3,641,324.
Stockham, John D.; Townsend, Lawrence B.; Ohlhaber, Ronald L.; and Scopelite, Thomas M., 3,641,320.
- Scordalides, Constantios A.; and Papageorgiou, Dimitri G. Permanently shaped wig article. 3,665,940, 5-30-72, Cl. 132-53.
- Scot Meat Products Limited: *See*—
Ackroyd, Harry Briggs, 3,638,554.
- Scotland, John Louis, to British Resin Products Limited: Plastics containers for fuel storage. 3,647,613, 3-7-72, Cl. 161-165.
- Scott & Fetzer Company, The: *See*—
Bowman, Joe; and Edwards, James D., 3,683,711.
Burgoon, Jack L., 3,663,985.
Mac Farland, Charles H., 3,636,584.
Mac Farland, Charles H., 3,683,710.
MacFarland, Charles H., 3,646,632.
- Scott & Williams, Inc.: *See*—
Miller, John J., 3,685,321.
- Scott, Alan N.: *See*—
Kollonitsch, Janos; and Scott, Alan N., 3,666,644.
- Scott, Albert Rockwood. Automobile towing assembly. 3,667,630, 6-6-72, Cl. 214-86.00a.
- Scott, Allan W.: *See*—
Burgess, James E.; Falce, Louis R.; Graham, Robert L.; and Scott, Allan W., 3,691,630.
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- Scott, Allan W. Microwave generator with interleaved focusing and interaction structures. 3,705,327, 12-5-72, Cl. 315-3.500.
- Scott, Arthur A., to Eaton Yale & Towne, Inc. Throttling butterfly valve. 3,666,235, 5-30-72, Cl. 251-205.
- Scott, Benton Boyd: *See*—
Neal, Charles Bailey; and Scott, Benton Boyd, 3,706,849.
- Scott, Charles E., to Cities Service Company. Mercapto carboxylic acid modified butyl rubber. 3,645,935, 2-29-72, Cl. 260-5.
- Scott, Charles E., to Cities Service Company. Waste rubber disposal. 3,700,615, 10-24-72, Cl. 260-2.300.
- Scott, Dale Keith: *See*—
Calvert, Rodney K.; and Scott, Dale Keith, 3,691,808.
- Scott, Daniel G.: *See*—
Mayer, Gary T.; and Scott, Daniel G., 3,639,010.
- Scott, Daniel G., to Westinghouse Air Brake Company. Empty-load changeover apparatus. 3,671,086, 6-20-72, Cl. 303-23.
- Scott, Donald R.: *See*—
Singh, Kanwal N.; Cremean, Stephen P.; and Scott, Donald R., 3,672,442.
- Scott, Donald W., to Quaker Oats Company, The. Audio-visual toy. 3,659,030, 4-25-72, Cl. 35-8.
- Scott, Douglas R., to Robertshaw Controls Company. Pneumatic control system unit and device for receiving the same. 3,633,620, 1-11-72, Cl. 137-613.
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- Scott, Douglas R. Pneumatically actuated timer programming cam mechanism and switch. 3,705,278, 12-5-72, Cl. 200-33.00b.
- Scott, E. Walter: *See*—
Tucker, Council A., 3,664,073.
- Scott, Edwin M., Jr. Process for die casting brass using a silicone lubricant. 3,654,985, 4-11-72, Cl. 164-72.
- Scott Engineering, Inc.: *See*—
Collister, Robert A., 3,643,009.
- Scott Equipment Company: *See*—
Karman, Lawrence P.; and Klein, Morris R., 3,636,708.
Karman, Lawrence P., 3,667,225.
- Scott Equipment Company, Inc.: *See*—
Scott, Joe, 3,663,009.
- Scott, Ernest R., to General Electric Company. Vacuum cleaner. 3,654,661, 4-11-72, Cl. 15-333.
- Scott, Eugene W., to Westinghouse Electric Corporation. Reversible wall box for recessed water cooler. 3,704,925, 12-5-72, Cl. 312-228.900.
- Scott, Floyd Logan, Jr.: *See*—
Litchfield, Mason Rawleigh; and Scott, Floyd Logan, Jr., 3,698,426.
- Scott, Francis A. Electrical alarm system. 3,705,401, 12-5-72, Cl. 340-412.000.
- Scott, George B.: *See*—
Dukes, Clifford F.; and Scott, George B., 3,637,902.
- Scott, George V.: *See*—
Robbins, Clarence R.; Grey, Seymour; and Scott, George V., 3,634,022.
- Scott, George Vane: *See*—
Wixon, Harold Eugene; and Scott, George Vane, 3,639,234.
- Scott, George W., to Textron, Inc. Needle loom. 3,682,205, 8-8-72, Cl. 139-124.00a.
- Scott, Gerald C., to Ford Motor Company. Ranging system using phase detection. 3,680,092, 7-25-72, Cl. 343-7.00a.
- Scott, Gerald L.: *See*—
Genrich, Kurt; and Scott, Gerald L., 3,633,895.
- Scott, H. H., Inc.: *See*—
Von Recklinghausen, Daniel R., 3,662,113.
Von Recklinghausen, Daniel R., 3,668,545.
- Scott, Harley D., to Smith, Elwin G., & Company, Inc. Insulated wall panel. 3,678,642, 7-25-72, Cl. 52-588.000.
- Scott, Harold W.; and Kelemencky, Monroe R., to Electrex Corporation. Electric shaver. 3,631,595, 1-4-72, Cl. 30-45.
- Scott, Harold W.; and Smith, Avery B., to Resource Control, Inc. Airborne contaminant removal by electro-photoionization. 3,653,185, 4-4-72, Cl. 55-103.
- Scott, Harry B.: *See*—
Tisdell, Lawrence C.; and Scott, Harry B., 3,679,371.
- Scott, Henry George, to Midland Silicones Limited. Cross-linking of a polyolefin with a silane. 3,646,155, 2-29-72, Cl. 260-827.
- Scott, Henry H., to Dow Chemical Company, The. Crop culture with 4H-1,2,4-triazoles. 3,697,244, 10-10-72, Cl. 71-1.000.
- Scott, Henry H. Crop culture with 1h-1,2,4-triazoles. 3,701,645, 10-31-72, Cl. 71-1.000.
- Scott, Herbert W., to Gilbey Equipment Ltd. Wire forming machine. 3,664,384, 5-23-72, Cl. 140-92.940.
- Scott, Hollis C.: *See*—
Birkemeier, George R.; and Scott, Hollis C., 3,635,509.
- Scott, Howard L.: *See*—
McClain, James E.; Parks, Arcus F.; and Scott, Howard L., 3,685,035.
- Scott, Howard L., to Fidelity Bank, The. Apparatus for treating natural and synthetic hair. 3,660,634, 5-2-72, Cl. 219-222.
- Scott, Howard Mulder; and Corson, Carl Rutherford, to RCA Corporation. Vector generator. 3,638,214, 1-25-72, Cl. 340-324.
- Scott, Hugh D., to Simplimatic Engineering Co. Missing container detector having integrated circuit modules. 3,665,444, 5-23-72, Cl. 340-259.
- Scott, Hugh M.: *See*—
Poindexter, Everton G.; and Scott, Hugh M., 3,643,376.
- Scott, J. O.; and Hern, Charles L., to Cities Service Oil Company. Control of gravity segregation by high density fluid injection. 3,661,208, 5-9-72, Cl. 166-274.
- Scott, J. O., to Cities Service Oil Company. Permafrost stabilization for bearing heavy structures. 3,699,685, 10-24-72, Cl. 61-36.00a.
- Scott, James B.: *See*—
Smith, Lloyd M.; Scott, James B.; and Wertz, William H., 3,704,346.
- Scott, James W., to Owens-Corning Fiberglass Corporation. Self cleaning hood structure. 3,640,793, 2-8-72, Cl. 25-83.
- Scott, Joe, to Scott Equipment Company, Inc. Sheet feeding apparatus. 3,663,009, 5-16-72, Cl. 271-11.000.
- Scott, John A.: *See*—
Rao, Velliyur Nott Padmanabha; Scott, John A.; and Surowiecki, Benjamin M., Jr., 3,674,827.
- Scott, John Grayson. Self-releasing attachment device for fishing. 3,685,196, 8-22-72, Cl. 43-43.120.
- Scott, John M. Electrical switch. 3,644,856, 2-22-72, Cl. 335-207.
- Scott, John W.: *See*—
Mitchell, David S.; Bridge, Alan G.; and Scott, John W., 3,674,682.
- Scott, John W. Method for oxidizing a mercaptan compound dispersed in air. 3,657,087, 4-18-72, Cl. 204-158.
- Scott, John William: *See*—

- Saucy, Gabriel; and Scott, John William, 3,691,190.
- Saucy, Gabriel; and Scott, John William, 3,700,661.
- Scott, Joseph Hurlong: *See*—
Burns, Joseph Richard; and Scott, Joseph Hurlong, 3,636,418.
- Scott, Junius D., to FMC Corporation. SCR control for inductive power circuit. 3,634,734, 1-11-72, Cl. 317-148.5.
- Scott, Kelley E., Jr.; Kemper, Daryl M.; Grove, Lloyd E.; and Kiess, Ronald J., to CTS Corporation. Method of making piezoelectric crystal units. 3,656,217, 4-18-72, Cl. 29-25.35.
- Scott, Kenneth A.: *See*—
Davis, Ronald I.; and Scott, Kenneth A., 3,665,043.
Davis, Ronald I.; and Scott, Kenneth A., 3,665,045.
Hollstein, Elmer J.; and Scott, Kenneth A., 3,681,387.
- Scott, Kenneth A., to Sun Oil Company. Fractionation of C₁₂ bicyclic aromatic hydrocarbons by 2-chloro, 4-nitrobenzoic acid complex formation. 3,665,044, 5-23-72, Cl. 260-674.00n.
- Scott, Kenneth N. Data strip copying attachment for a photocopying machine. 3,669,536, 6-13-72, Cl. 355-40.000.
- Scott, Kenneth W.: *See*—
Calderon, Nissim; and Scott, Kenneth W., 3,692,872.
- Scott, Leonard E. Fishing apparatus. 3,665,633, 5-30-72, Cl. 43-19.200.
- Scott Machine Development Corporation: *See*—
Schmutzler, Richard W.; Scott, Merton E.; Page, Kenneth J.; and Van Buren, Edgar S., 3,662,467.
- Scott, Merton E.; Schmutzler, Richard W.; and Cleminshaw, Douglas R., 3,685,097.
- Scott, Merton E.: *See*—
Schmutzler, Richard W.; Scott, Merton E.; Page, Kenneth J.; and Van Buren, Edgar S., 3,662,467.
- Scott, Merton E.; Schmutzler, Richard W.; and Cleminshaw, Douglas R., to Scott Machine Development Corporation. Clam opener tools. 3,685,097, 8-22-72, Cl. 17-75.000.
- Scott, Michael A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Transfer elements and process for preparing same. 3,689,301, 9-5-72, Cl. 117-36.400.
- Scott, Milton J.: *See*—
Albert, Milton P.; and Scott, Milton J., 3,632,317.
- Scott, Milton J.; and Stenzel, Jürgen A., to Monsanto Company. Processing of ferrophosphorus. 3,650,732, 3-21-72, Cl. 75-129.
- Scott, Myrskyl W., and Stelzer, Ernest L., to Honeywell Inc. Multicolor photovoltaic device. 3,638,026, 1-25-72, Cl. 250-211.
- Scott, O. M., & Sons Company, The: *See*—
Gaskin, Timothy Allen; and Bell, Robert Joseph, 3,632,328.
- Wietelmann, Ronald E.; and Wittenbrook, Lawrence S., 3,637,366.
- Scott, O. M., & Sons Company, The: *See*—
Czurak, Richard H.; and Thompson, Robert M., 3,705,794.
- Scott, Page N.: *See*—
Clark, Warren R.; Clark, Warren G.; and Scott, Page N., 3,662,775.
- Scott Paper Company: *See*—
Adams, Whitney B., 3,676,173.
Adams, Whitney R., 3,667,984.
- Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., 3,661,282.
- Buteau, Roland N.; and Taylor, Ruel E., Jr., 3,654,011.
- Gipe, Harry F., 3,677,178.
- Gipe, Harry Frank, 3,632,375.
- Jarusik, Paul; and Pociluyko, Alexander, 3,693,621.
- Kelly, David John, 3,681,273.
- Kirk, Mahlon Randall, 3,674,726.
- Kitch, Paul E., 3,640,613.
- Kitch, Paul E., 3,642,359.
- Kitch, Paul E., 3,704,069.
- Peterson, John O. H., 3,637,390.
- Pociluyko, Alexander, 3,658,064.
- Price, Lawrence, 3,649,284.
- Ramaika, Lawrence T., 3,651,181.
- Spengos, Aris C.; and Kaiser, Richard B., 3,652,391.
- Wade, Gordon E., 3,703,255.
- Ward, Franklin J., 3,667,994.
- Weinstein, James D.; and Davidson, Barry A., 3,689,949.
- Wolkowicz, Richard I., 3,703,569.
- Scott, Perry E., to Crompton & Knowles Corporation. Needle board. 3,680,182, 8-1-72, Cl. 28-4.00r.
- Scott, Peter H.: *See*—
Churchill, John W.; Kober, Ehrenfried H.; and Scott, Peter H., 3,639,482.
- Pitts, James J.; and Scott, Peter H., 3,697,456.
- Scott, Ralph A., Jr. Laser plant control. 3,652,844, 3-28-72, Cl. 240-1.
- Scott, Ralph K., to Columbia Fabricators, Inc. Process for casting concrete members. 3,689,626, 9-5-72, Cl. 264-317.000.
- Scott, Ray A.: *See*—
Sorenson, Billy L.; and Scott, Ray A., 3,669,175.
- Scott, Raymond: *See*—
Priessnitz, Edmund F.; and Scott, Raymond, 3,684,889.
- Scott Research Laboratories, Inc.: *See*—
Zegel, William C., 3,687,631.
- Scott, Richard D., to Teletype Corporation. Inductor surge protection for transistors. 3,641,407, 2-8-72, Cl. 317-43.
- Scott, Richard David, to RCA Corporation. Aerial photography. 3,707,254, 12-26-72, Cl. 226-97.000.
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- Scott, Robert L.: *See*—
Larsson, Robert W.; and Scott, Robert L., 3,649,826.
- Scott, Robert T.: *See*—
Shmueli, Kalman; Scott, Robert T.; and Mills, Wallace R., 3,640,318.
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- Scott, Thomas H., to M-R-S Manufacturing Company. Earth moving vehicle dumping structure. 3,680,234, 8-1-72, Cl. 37-129.000.
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McKee, Clyde M.; Provenzano, Andrew V.; and Scott, Ward, 3,640,608.
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- Scott, Warren J. Method for making dental coping. 3,685,115, 8-22-72, Cl. 29-160.600.
- Scott, William Anthony, to Beckman Instruments, Ltd. Radiation attenuating comb assembly. 3,685,885, 8-22-72, Cl. 350-271.000.
- Scott, William Bruce: *See*—
Pincok, Richard E.; and Scott, William Bruce, 3,649,702.
- Scott, William Bruce; and Simpson, Peter Laurence, to Gulf Oil Canada Limited. Dibenzothiophene sulfonyl halides. 3,705,909, 12-12-72, Cl. 260-329.300.
- Scott, William Bryson: *See*—
Lynch, John F.; Scott, William Bryson; and Paoletti, Alfred J., 3,671,206.
- Lynch, John F.; Scott, William Bryson; and Paoletti, Alfred J., 3,671,207.
- Scott, William G.: *See*—
Westerman, Charles Webster; Scott, William G.; and Wales, William S., 3,633,210.
- Scott, William H., to Sunbeam Corporation. Hair dryer and facial sauna. 3,645,007, 2-29-72, Cl. 34-60.
- Scott, William Kenneth, to United States of America, Army. Method for the detection and classification of defects in internal combustion engines. 3,677,075, 7-18-72, Cl. 73-117.300.
- Scott, William P.; and Rogers, Lynn C., to Continental Oil Company. Grease compositions containing polymers. 3,671,012, 6-20-72, Cl. 252-33.400.
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- Scott-Monck, John A.; and Learn, Arthur J., to TRW Inc. Method for producing improved semiconductive diodes. 3,660,154, 5-2-72, Cl. 117-200.000.
- Scotti, Tullio: *See*—
Amici, Alba-Maria; Minghetti, Anacleto; Scotti, Tullio; and Spalla, Celestino, 3,658,653.
- Scottish Agricultural Industries Limited: *See*—
Jack, James; Drake, John; Thompson, David Crompton; and Harris, Frederick John, 3,679,391.
- Scovil, Henry Evelyn Derrick: *See*—
Bobeck, Andrew Henry; and Scovil, Henry Evelyn Derrick, 3,703,712.
- Scovill Manufacturing Company: *See*—
Ackermann, Walter Thomas; and Daley, Thomas Joseph, 3,703,148.
- Bauer, Charles L., 3,668,348.
- Brake, Cecil Clifford, 3,696,889.
- Brown, Hugh Clifford, 3,656,497.
- Burbank, John Emerson; Lautenberger, William Henry; and Fasciano, Patrick John, 3,634,922.
- Campbell, Lawrence Frank, 3,657,966.
- Cooper, Joseph, 3,666,087.
- Doutt, Kingsley A., 3,678,809.
- Drude, Edward H.; and Mangum, Bennie Franklin, 3,647,142.
- Foults, Jonathan Asa, 3,700,166.
- Hahn, James H., 3,689,998.
- Jones, Arthur Llewellyn, 3,696,473.
- Kruger, James B.; and Cooper, Joseph, 3,648,331.
- Passaggio, Charles, 3,664,377.
- Shay, Joseph John, 3,653,558.
- Sitterly, Charles K., 3,662,494.
- Triolo, Peter T.; and Schutte, Harlan H., 3,672,806.
- Weber, Robert L., 3,672,354.
- Weber, Robert L., 3,696,818.
- Scovill Manufacturing Company, *mesne*: *See*—

- Noakes, Thomas E.; Konen, Thomas P.; Kokalari, Albert; and Duggan, Robert B., 3,696,611.
 Scalfani, Ben J., 3,683,171.
 Scovill, Warner E.; and Day, Donald R., to Standard Oil Company, The (Ohio). Process for manufacture of improved needle coke from petroleum. 3,704,224, 11-28-72, Cl. 208-131.000.
 Scoville, Andrew E.: See—
 Ambler, Edward Curtis; and Scoville, Andrew E., 3,668,470.
 Ambler, Edward Curtis; Bush, Walter R.; and Scoville, Andrew E., 3,668,471.
 Scoville, Andrew E., to American Multi-Lert Corporation. Self-aligning motion detectors. 3,674,950, 7-4-72, Cl. 200-61.480.
 Scowcroft, Hector; Cartledge, Albert J.; and Greenwood, Frank, to T.M.M. (Research) Limited. Wad or plug control for stuffer-box crimping apparatus. 3,688,356, 9-5-72, Cl. 28-1.700.
 Scragg, Ernest, & Sons Limited: See—
 Kneafsey, Adrian W., 3,670,490.
 Lee, Harold William, 3,660,051.
 Mattingly, Denis Albert Edward, 3,635,009.
 Mattingly, Denis Albert Edward, 3,657,872.
 Waterhouse, George, 3,649,404.
 Scrambler and Seismic Sciences, Inc.: See—
 Rivkin, Bernard W., 3,651,268.
 Scranton, Robert J.: See—
 Parks, Miles E.; and Scranton, Robert J., 3,677,453.
 Scray, Eugene J., Jr.: See—
 Green, Richard F.; Scray, Eugene J., Jr.; and Wilder, Donald L., 3,659,087.
 Scremin, Eric H.: See—
 Prah, Walter H.; Eggert, Jay P.; Lederman, Sol J.; Scremin, Eric H.; and Ulrich, Albert C., 3,644,542.
 Screttas, Constantinos G., to Lithium Corporation. Preparation of microcrystalline waxes. 3,639,380, 2-1-72, Cl. 260-94.9.
 Screttas, Constantinos G. Metalation of alkyl side chains of alkyl pyridines, alkyl quinolines and alkyl isoquinolines. 3,691,174, 9-12-72, Cl. 260-290.00r.
 Scribner, David L.: See—
 Beny, Janos; Kingsbury, LC James; and Scribner, David L., 3,678,618.
 Scribner, Richard M., to Du Pont de Nemours, E. I., and Company. C-21 lower alkylsulfinyl esters of certain 21-hydroxycorticosteroids. 3,673,179, 6-27-72, Cl. 260-239.550.
 Scribner, Richard M., to Du Pont de Nemours, E. I., and Company. C-21 Lower alkylsulfinyl esters of certain 6 α -fluoro-21-hydroxycorticosteroids. 3,681,338, 8-1-72, Cl. 260-239.55d.
 Scrine, Gerald Robin: See—
 Hale, Kenneth Calvert; and Scrine, Gerald Robin, 3,699,694.
 Hales, Kenneth Calvert; and Scrine, Gerald Robin, 3,673,810.
 Scripto, Inc.: See—
 Fuller, David L., 3,663,096.
 Fuller, David L., 3,669,527.
 Lockwood, John C., 3,639,068.
 Payne, William B., 3,643,319.
 Scrivani, Pietro: See—
 Vitali, Tullio; Scrivani, Pietro; Ponci, Riccardo; Pellegrini, Giovanni; Gialdi, Franco; and Arsur, Emilio, 3,657,263.
 Scriven & Paget Limited: See—
 Scriven, Eric Thomas; and Paget, Arthur Averil, 3,631,665.
 Scriven, Eric Thomas; and Paget, Arthur Averil, to Scriven & Paget Limited. Spindle driving and support mechanism. 3,631,665, 1-4-72, Cl. 57-77.45.
 Scrivener, Samuel, Jr., mesne: See—
 Campbell, Joseph R., 3,631,619.
 Scroop, Francis R.; and Gebhard, John F., to Whirlpool Corporation. Article washing apparatus. 3,650,129, 3-21-72, Cl. 68-23.5.
 Scruggs, Donald E., to Industrial Brush Company. Rotary brush core construction with integral tangs. 3,633,236, 1-11-72, Cl. 15-182.
 Scruggs, Jack G.; and Brady, Donnie G., to Phillips Petroleum Company. Synthesis of hydroxyalkyl esters of carboxylic acids. 3,676,484, 7-11-72, Cl. 260-475.00p.
 Scruggs, James A., to United States of America, Army, mesne. Preparation of aluminum hydride by hydrogenation of aluminum in presence of a dialkyl aluminum hydride. 3,664,811, 5-23-72, Cl. 23-204.
 Scrutton, Anthony: See—
 Entwisle, John Hubert; Lee, Denis; and Scrutton, Anthony, 3,701,724.
 Scrutton, Simon Lindsay: See—
 Hercock, Robert James; and Scrutton, Simon Lindsay, 3,701,731.
 Seudder, Philmore M., to Sun Oil Company. Thiourea pseudocumene adduct. 3,703,503, 11-21-72, Cl. 260-96.50t.
 Seuderi, Santi. Automatic accident signalling apparatus for motor vehicles. 3,646,583, 2-29-72, Cl. 340-52.
 Scuffham, James Barrie; and Rowden, George Allan, to Power-Gas Limited. Metal separation. 3,663,169, 5-16-72, Cl. 23-200.
 Scull, William L.: See—
 Muller, John Thomas; Scull, William L.; Cooper, James H.; and Soderberg, Curt A., 3,642,021.
 Scullian Steel Company: See—
 Gutmann, Paul F., Jr.; and Mueller, Thomas L., 3,690,270.
 Scully, John W., to Pneumatic Scale Corporation. Carton having a hinged end closure. 3,642,194, 2-15-72, Cl. 229-51.
 Scully, John W., to Pneumatic Scale Corporation. Carton having a hinged end closure. 3,653,582, 4-4-72, Cl. 229-51.
 Scully, John W., to Pneumatic Scale Corporation. Apparatus for producing cartons. 3,656,417, 4-18-72, Cl. 93-52.
 Scully, Thomas A.: See—
 Edwards, Webster H.; Miller, Earl A.; Scully, Thomas A.; Vining, Roy H.; and Wittman, David, 3,686,023.
 SDS Data Systems, Inc., mesne: See—
 Sherer, Paul; and Halverson, Phillip C., 3,685,047.
 S.E. Laboratories(Holdings) Limited: See—
 Talbert, David Godwin, 3,648,098.
 Sea and Air Inc.: See—
 Javes, Arthur, 3,665,885.
 Sea-Land Service, Inc.: See—
 Bodenheimer, Bert A., 3,646,609.
 Bodenheimer, Bert A., 3,650,416.
 Bodenheimer, Bert A., 3,696,952.
 Shahani, Prakash W., 3,664,539.
 Seabeck, Lee A.: See—
 Krechmery, Roger L.; and Seabeck, Lee A., 3,707,675.
 Seabek Products, Inc.: See—
 Tinsley, Cleere B.; and Graham, Edward K., Jr., 3,659,881.
 Seaberg, David H., to Case, J. I., Company. Hydraulic control system for backhoes. 3,680,723, 8-1-72, Cl. 214-138.00r.
 Seaberg, David H., to Case, J. I., Company. Hydraulic tilt and pitch control for dozer blade. 3,705,631, 12-12-72, Cl. 172-804.000.
 Seaberg, Lewis A. Composite valve stem. 3,670,688, 6-20-72, Cl. 116-34.000.
 Seaboard Fabricators, Inc.: See—
 Van Dalen, Leonard; and Gadren, George S., 3,636,798.
 Seabury, William A., III. Modular matrix with plug interconnection. 3,670,207, 6-13-72, Cl. 317-101.
 Seachman, Ned Jay, to Xerox Corporation. Electrometer amplifier circuits. 3,667,036, 5-30-72, Cl. 324-72.
 Seaco Computer-Display Incorporated: See—
 Evans, William E.; and Harding, Robert C., 3,668,465.
 Seader, Junior DeVere, to University of Utah. Reduction of char depth in ablative composites. 3,652,320, 3-28-72, Cl. 117-46.
 Seader, William R., to General Electric Company. Direct drive vertical deflection system utilizing a storage capacitor and discharge tube in place of an output transformer. 3,654,510, 4-4-72, Cl. 315-29.
 Seafarro, Inc.: See—
 Spillman, William B., 3,683,577.
 Seafoods Automation Corporation: See—
 Letchworth, Herman R., 3,696,466.
 Seager, James Barry: See—
 Thomas, David; and Seager, James Barry, 3,651,699.
 Seager, Ronald W., to Raytheon Company. Transistor switching circuitry for phased array antenna systems. 3,697,783, 10-10-72, Cl. 307-300.000.
 Seagle, Stanley R.: See—
 Bomberger, Howard B., Jr.; and Seagle, Stanley R., 3,679,403.
 Seagreaves, George F., to General Motors Corporation. Method for making fiber optic assembly with crimped end connector. 3,655,275, 4-11-72, Cl. 350-320.
 Seal Spout Europe S.p.A.: See—
 Taddei, Carlo, 3,673,663.
 Seal-Spout Corporation: See—
 Klausmann, Milton H.; and Brucker, Henry J., 3,690,223.
 Seale, Virgil L.; Moreland, Billy Ray; and De Shazo, James Derwin, to Nalco Chemical Company. Products of reaction of polyoxalkylene alcohols and di-glycidyl ethers of bis-phenol compounds. 3,676,501, 7-11-72, Cl. 260-613.00b.
 Sealectro Corporation: See—
 Berezowski, Jaroslaw, 3,641,286.
 Deakin, Stanley Thomas, 3,677,471.
 Iantorno, James, 3,706,957.
 Iantorno, James F.; Wagner, John; and Schumacher, Stephen J., 3,671,920.
 Stand, Mille, 3,676,638.
 Sealed Power Corporation: See—
 Davis, Lewis M.; and Hesling, Donald M., 3,695,622.
 Davis, Lewis M.; and Warrick, Frank G., 3,707,027.
 Overway, Roy E., 3,646,797.
 Overway, Roy E.; and Warrick, Frank G., 3,701,275.
 Warrick, Frank G., 3,633,260.
 Sealmaster Limited: See—
 Dixon, Bernard, 3,659,382.
 Sealol, Inc.: See—
 Greenawalt, Robert Gordon, 3,689,083.
 Muller, Heinz K., 3,659,860.
 Stevens, Justus Bickford; Meyer, Walter William; and Howland, John Sinclair, 3,658,349.
 Seals, Calvin L. Nature art wood grain painting kit. 3,704,531, 12-5-72, Cl. 35-26.000.
 Seals, William O.: See—

- Picard, Jean P.; Seals, William O.; and Pell, Lawrence W., 3,696,748.
 Sealth Aero Marine Company: See—
 Andrews, Weldon R., 3,659,886.
 Day, John W., Jr., 3,697,145.
 Sealtronics, Inc.: See—
 Williams, Neal T., 3,636,235.
 Sealy, Inc.: See—
 Basner, Ernest L., 3,665,530.
 Davis, Wilton J., 3,653,081.
 Davis, Wilton J., 3,653,082.
 Seaman, James A.: See—
 Ratteree, James; and Seaman, James A., 3,677,655.
 Ratteree, James; and Seaman, James A., 3,691,880.
 Seaman, Robert W.: See—
 Hanley, John P.; and Seaman, Robert W., 3,683,236.
 Seaman, Russell: See—
 Cresswell, Ronald M.; Mentha, John W.; and Seaman, Russell, 3,682,957.
 Seaman, Russell L.: See—
 Cresswell, Ronald M.; Mentha, John W.; and Seaman, Russell L., 3,697,512.
 Seaman, Wendell L.; and Etter, William A., to Fisher Controls Company, Inc., mesne. Safety control valve. 3,631,893, 1-4-72, Cl. 137-630.
 Seaman, William J., to Chrysler Corporation. Wide angle biocular eyepiece. 3,658,412, 4-25-72, Cl. 350-220.
 Seamands, Robert E.: See—
 Toering, Robert J.; and Seamands, Robert E., 3,698,284.
 Seauist Valve Company: See—
 Ewald, Ronald F.; and Platt, Norman E., 3,648,932.
 Seauist Valve Company, division of Pittway Corporation: See—
 Evesque, Roger A., 3,674,185.
 Ewald, Ronald F., 3,674,186.
 Ewald, Ronald F., 3,690,515.
 Seauist Valve Corporation: See—
 Ewald, Ronald F., 3,658,215.
 Sear, Reginald; and Dean, Peter Mervyn, to National Research Development Corporation. Radio-isotope scanning machine for more clearly representing contours of equal radiation intensity. 3,655,973, 4-11-72, Cl. 250-71.5.
 Search, Robert L.: See—
 Broyles, William R.; and Search, Robert L., 3,686,043.
 Searcy, Ronald: See—
 Cekoric, Thomas, Jr.; Evans, George; and Searcy, Ronald, 3,668,075.
 Cekoric, Thomas, Jr.; Evans, George; and Searcy, Ronald, 3,671,399.
 Searcy, Ronald Loy: See—
 Klein, Bernard; and Searcy, Ronald Loy, 3,694,318.
 Searer, Glenn V.; and Searer, Vernon A. Conductor protecting fixture. 3,689,681, 9-5-72, Cl. 174-48.000.
 Searer, Vernon A.: See—
 Searer, Glenn V.; and Searer, Vernon A., 3,689,681.
 Searle, Campbell L., to Alden Self-Transit Systems Corporation. Transportation system. 3,661,093, 5-9-72, Cl. 104-148.
 Searle, Clark A., to Eaton Yale & Towne, Inc. Pump assembly. 3,632,238, 1-4-72, Cl. 418-15.
 Searle, Eric H.; and Goud, Eric G., to Dunlop Holdings Limited. Method and apparatus for detecting reinforcement spacing variation by microwave diffraction. 3,648,164, 3-7-72, Cl. 324-58.5.
 Searle, G. D., & Co.: See—
 Baran, John S.; and Laos, Ivar, 3,652,606.
 Baran, John S.; and Laos, Ivar, 3,682,986.
 Beltran, Humberto Flores, 3,682,883.
 Benn, Walter R., 3,639,435.
 Chorvat, Robert J.; Pappo, Raphael; and Scaros, Mike G., 3,644,342.
 Colton, Frank B.; Marsheck, William J.; and Miyano, Masateru, 3,687,811.
 Colton, Frank B.; Mikulec, Richard A.; and Nicholson, Robert T., 3,697,509.
 Coyne, William E.; and Cusic, John W., 3,658,908.
 Cusic, John W.; and Levon, Ernest F., 3,642,836.
 Cusic, John W.; and Coyne, William E., 3,644,346.
 Cusic, John W.; and Yen, Chung Hwai, 3,660,485.
 Dryden, Hugh L., Jr., 3,678,082.
 Dryden, Hugh L., Jr., 3,682,894.
 Hamilton, Robert W., 3,668,251.
 Hershenson, Fred M., 3,646,035.
 Hershenson, Fred M., 3,694,432.
 Hershenson, Fred M., 3,706,766.
 Johns, William F., 3,646,074.
 Klimstra, Paul D., 3,636,014.
 Klimstra, Paul D., 3,639,598.
 Klimstra, Paul D., 3,641,068.
 Klimstra, Paul D., 3,657,289.
 Klimstra, Paul D., 3,658,853.
 Klimstra, Paul D., 3,682,898.
 Klimstra, Paul D., 3,682,922.
 Klimstra, Paul D., 3,691,207.
 Kraychy, Stephen; Marsheck, William J.; and Muir, Robert D., 3,684,657.
 Kreider, Eunice M.; and Tweit, Robert C., 3,679,697.
 Kreider, Eunice M., 3,682,951.
 Krimmel, Carl Peter, 3,657,273.
 Krimmel, Carl Peter, 3,663,565.
 Krimmel, Carl Peter, 3,671,527.
 Krimmel, Carl Peter, 3,704,306.
 Krimmel, Carl Peter, 3,705,141.
 Laos, Ivar, 3,646,036.
 Laos, Ivar; and Baran, John S., 3,657,290.
 Lovell, Calvin; and Sause, Henry William, 3,637,679.
 Mazur, Robert H.; and Jones, David A., Jr., 3,707,559.
 Miyano, Masateru, 3,696,144.
 Nysted, Leonard N., 3,634,469.
 Pappo, Raphael; and Prekel, Patricia A., 3,686,226.
 Robinson, Richard A., 3,666,801.
 Schlatter, James M., 3,642,491.
 Sprenger, William K., 3,663,547.
 Sprenger, William K., 3,692,799.
 Yonan, Peter, 3,636,094.
 Searle, Harold Trevor: See—
 Proctor, James Ernest; Paddock, Norman Lovelace; and Searle, Harold Trevor, 3,667,922.
 Searle, John Albert; and Perrin, Dennis William, to Motor Industry Research Association. Human simulations (dummies). 3,664,038, 5-23-72, Cl. 35-17.
 Searle, John Gilbert, to Allwood Searle & Timney Limited. Friction welding apparatus. 3,705,678, 12-12-72, Cl. 228-2.000.
 Searle, Martin: See—
 Miller, John; and Searle, Martin, 3,678,114.
 Searle Medidata Inc.: See—
 Rawson, Edward B.; and Dowling, John B., 3,679,875.
 Rawson, Edward B.; and Dowling, John B., 3,693,166.
 Searle, Norman; and Tatom, John W., to Lockheed Aircraft Corporation. Thrust reverser for asymmetric exhaust efflux deflection. 3,640,468, 2-8-72, Cl. 239-265.29.
 Searle, Robert F.: See—
 Hendershot, James R.; and Searle, Robert F., 3,680,671.
 Hendershot, James R., Jr.; and Searle, Robert F., 3,664,473.
 Searle, Simon M. St. L.; and Walker, Christopher H. C., to Smiths Industries Limited. Display systems. 3,679,297, 7-25-72, Cl. 353-14.000.
 Searles, John J., to Ford Motor Company. Compound governor valve mechanism. 3,642,014, 2-15-72, Cl. 137-54.
 Searponi, Tito: See—
 Hurlbutt, Duane; and Searponi, Tito, 3,651,455.
 Sears, Bobby Joe; and Looker, Olin L., to FMC Corporation. Corn picker head with reversible rotor blades. 3,633,348, 1-11-72, Cl. 56-104.
 Sears, Bobby Joe, to FMC Corporation. Corn picker head with spring biased butt stops. 3,648,443, 3-14-72, Cl. 56-111.
 Sears, Charles K., to Jackson Controls Company, Inc. Operative winding separator. 3,661,342, 5-9-72, Cl. 242-118.410.
 Sears, Hartley M.; and Schrader, Clarence O., to Frawley Enterprises, Inc. Arrangement for preventing leakage from ball-point pen cartridges. 3,698,825, 10-17-72, Cl. 401-217.000.
 Sears, Isaac W., Jr. Seat fabric cover fastener. 3,633,968, 1-11-72, Cl. 297-458.
 Sears, James Kern, to Monsanto Company. Phthalimide plasticizer and non-proteinaceous resin mix. 3,652,312, 3-28-72, Cl. 106-176.
 Sears, Paul G.; and Vandersall, Howard L., to Monsanto Company. Ammonium pyrophosphates, processes for preparing, and uses. 3,645,675, 2-29-72, Cl. 23-106.
 Sears, Richard G.: See—
 Best, Roger J.; and Sears, Richard G., 3,658,183.
 Sears, Richard P.: See—
 Chamberlain, Terrance L.; Sears, Richard P.; and Fletcher, Ivan H., Jr., 3,697,360.
 Sears, Roebuck and Co.: See—
 Collins, Edward C.; and Hittle, Eugene C., 3,698,780.
 Duncan, Alan W., 3,699,615.
 Gilbert, Arthur E., 3,698,672.
 Little, John W.; and Cebula, Thaddeus J., 3,698,014.
 Senser, Karl E., 3,706,103.
 Shanks, Harry R., 3,680,941.
 Sease, John D.: See—
 Pechin, William H.; Bradley, Ronnie A.; and Sease, John D., 3,689,428.
 Seasholtz, Elwood F., to Bethlehem Steel Corporation. Strip flatness inspection method. 3,666,370, 5-30-72, Cl. 356-200.
 Seat Marker, Inc.: See—
 Pfeiffer, Irving W., 3,702,034.
 Seatech Corporation: See—
 Peroni, George J., 3,685,480.
 Seatech Engineering, Inc.: See—
 Bildsoe, Jorgen S., 3,685,637.
 Seating Company of America, Inc.: See—
 Tipton, Max E., 3,657,854.

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Frankel, Ernst G., 3,664,388.
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Allen, William J.; and Barber, Michael D., 3,675,923.
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- Seay, Philip B., to Inta-Roto, Inc. Web handling apparatus and spindle chuck therefor. 3,670,979, 6-20-72, Cl. 242-64.
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McKissick, Robert T.; Sebastian, Vincent W.; Davis, Ray D.; and Sasser, Arthur R., 3,636,687.
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Gruska, Ralph, 3,706,354.
Gruska, Ralph, 3,706,500.
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- Sebek, Oldrich K.; and Meyer, Curtis E., to Upjohn Company. The. Tirandamycin and process for making same. 3,671,628, 6-20-72, Cl. 424-120.000.
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Bukac, Zbynek; and Sebenda, Jan, 3,639,360.
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- Sebastian, Allison, to GAF Corporation. Rotating shaft stuffing box. 3,659,862, 5-2-72, Cl. 277-106.
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Varadi, Peter F.; and Sebestyen, Laslo G., 3,641,281.
- Sebestyen, Zsigmond: See—
Nagy, Zoltan; Szepes, Laszlo; Kovacs, Attila; and Sebestyen, Zsigmond, 3,644,555.
- Sebold, Clarence V.: See—
Criswell, Daryl L.; and Sebold, Clarence V., 3,681,604.
- Sebon Corporation, The: See—
Szpur, Roman, 3,699,961.
- Sebring, Michael: See—
Rogers, Alan B.; Sebring, Michael; and Kline, Ralph W., 3,658,558.
Rogers, Alan B.; and Sebring, Michael, 3,697,283.
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Ferm, Carl W.; and Sechler, Fred R., 3,677,409.
- Sechler, Robert F., to International Business Machines Corporation. Independent read-write monolithic memory array. 3,675,218, 7-4-72, Cl. 340-173.0ff.
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Huboi, Robert W.; Waz, Edward M.; and Seckel, Thomas G., 3,644,664.
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Nelson, Arvid L.; and Seckman, John E., 3,632,237.
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Stewart, William K., 3,701,599.
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Morley, John Godfrey, 3,637,325.
- Secrist, Duane R.: See—
Ruszczky, James F.; and Secrist, Duane R., 3,670,112.
Ruszczky, James F.; and Secrist, Duane R., 3,681,044.
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- Secunda, Kenneth, to Federal-Mogul Corporation. Roller bearing assembly fixture. 3,673,661, 7-4-72, Cl. 29-201.000.
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Tike, Elmer A., 3,702,331.
- Security Pacific National Bank, mesne: See—
Metzner, Robert; Dashew, Stanley A.; and Varney, Justin A., 3,648,617.
- Security Systems, Inc.: See—
Devine, Edward, 3,677,370.
Miller, Peter; and Call, Charles G., 3,688,298.
- Sedaris, Louis H.: See—
Harris, Richard H.; and Sedaris, Louis H., 3,694,606.
- Sedberry, Donald C.: See—
Class, Charles A., Jr.; Van Zyl, Robert M.; and Sedberry, Donald C., 3,644,980.
- Sedes, Pierre H.: See—
Basard, Robert; Stoll, Pierre E. C.; and Sedes, Pierre H., 3,665,616.
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Green, James M., II; Sedgwick, Thomas O.; and Silvestri, Victor J., 3,661,636.
- Sedimmed Societe d'Exploitation d'Inventions Metallurgiques Mecaniques et Chimiques: See—
Monne, Maxine, 3,693,249.
- Sedivy, George F.; and Sutterer, William F., to Waters Company. The. Method and apparatus utilizing electrical resistance ratios derived from bloodness and blood data for determining the percentage oxygen saturation in blood. 3,632,211, 1-4-72, Cl. 356-41.
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Vischulis, George; and Sedlak, Charles K., 3,635,240.
Vischulis, George; and Sedlak, Charles K., 3,647,600.
- Sedlarik, Jaroslav: See—
Havlas, Jiri; Kostecky, Premysl; and Sedlarik, Jaroslav, 3,673,649.
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Kirchhoff, Horst-Guenter; Pfabe, Peter; and Sedlmayr, Gerhard, 3,698,657.
- Sedor, Edward A.: See—
Culbertson, Billy M.; McKillip, William J.; and Sedor, Edward A., 3,641,145.
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Cowell, Robert L.; May, Richard L.; See, Thomas E.; and Stastny, Edwin O., 3,633,924.
- Seebald, Francis W. Multi-purpose utility device. 3,680,504, 8-1-72, Cl. 111-6.000.
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Carroll, Francis Emery; and Seebold, Walter Charles, 3,671,630.
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Britton, Leon R.; and Semerjian, Joseph K., 3,706,863.
Jachimek, Thomas P.; and Wrabel, James A., 3,665,208.
Jachimek, Thomas P.; and Murrell, Thomas A., 3,701,970.
Jachimek, Thomas P.; and Mulford, Jack A., 3,705,423.
Kordek, Steven F., 3,642,284.
Schwertfeger, Owen J.; and Brill, Frank D., 3,672,479.
Wrabel, James A.; and Casimer, Joseph, 3,668,476.
Wrabel, James A., 3,703,648.
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Wangard, William, 3,688,009.

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- Seedorf, Robert R., to Moffitt, Roy M., Company, The. Heat transfer device for tubular material. 3,653,129, 4-4-72, Cl. 34-155.
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Hansen, Guenter; and Seefelder, Matthias, 3,635,955.
Scheuermann, Horst; and Seefelder, Matthias, 3,652,636.
- Seefelder, Matthias; and Mueller, Hans-Richard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of formyl-methylenephthalimides. 3,660,428, 5-2-72, Cl. 260-325.
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Beare, Gene K.; Kopelman, Bernard; and Seeger, Donald E., 3,676,663.
- Seeger, Ernst: See—
Nickl, Josef; Engel, Wolfhard; Eckenfels, Albrecht; Seeger, Ernst; and Engelhardt, Gunther, 3,655,743.
- Seeger, Ernst; Engel, Wolfhard; Teufel, Helmut; Machleidt, Hans; Ueberberg, Heinrich; and Ihring, Hanns, to Boehringer Ingelheim G.m.b.H. N-Substituted 1-(pyridyl-2')-1,2,3,4-tetrahydro-isquinolines and salts. 3,642,801, 2-15-72, Cl. 260-287.
- Seeger, Horst K.: See—
Carter, Edward H., Jr.; Park, Vernon K.; and Seeger, Horst K., 3,674,765.
- Seegmiller, David W.: See—
King, Lowell A.; and Seegmiller, David W., 3,671,322.
- Seegmiller, Wan: See—
Young, Bruce O.; Walker, Grant W.; Ford, Duane B.; and Seegmiller, Wan, 3,672,657.
Young, Bruce O.; Walker, Grant W.; Ford, Duane B.; and Seegmiller, Wan, 3,674,115.
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- Seekircher, Richard: See—
Ellis, Alan F.; Kresge, Alfred N.; and Seekircher, Richard, 3,676,489.
Ellis, Alan F.; and Seekircher, Richard, 3,691,233.
Murphy, Clarence R.; Onopchenko, Anatoli; Piatt, John M.; and Seekircher, Richard, 3,644,499.
Onopchenko, Anatoli; Schulz, Johann G. D.; and Seekircher, Richard, 3,641,135.
Onopchenko, Anatoli; Schulz, Johann G. D.; and Seekircher, Richard, 3,641,136.
Onopchenko, Anatoli; Schulz, Johann G. D.; and Seekircher, Richard, 3,644,512.
Schulz, Johann G. D.; and Seekircher, Richard, 3,641,132.
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- Seeland, Karl H.; and Wentworth, Hobart L., to Sola Basic Industries, Inc. Internally heated rotary drum furnace with smoke abater. 3,705,711, 12-12-72, Cl. 263-32.00r.
- Seelbach, Walter C.; and Lampathakis, Kyriakose, to Motorola, Inc. Voltage distribution for integrated circuits. 3,706,130, 12-19-72, Cl. 29-584.000.
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- Seelenbinder, Terrence G., to Addressograph-Multigraph Corporation. Automatic sheet separating apparatus. 3,655,184, 4-11-72, Cl. 271-64.
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Goetz, Fred E.; Druzba, Perry R., Jr.; Hause, James R.; and Seeley, Gerard, 3,659,386.
- Seeley, Harvey E., Jr., to American Pollution Controlled, Inc. Method and apparatus for mixing and metering fuel in an internal combustion engine. 3,664,648, 5-23-72, Cl. 261-41.
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Simeth, Peter G.; and Seeley, Richard C., 3,645,133.
- Seeley, William G.: See—
Lehovec, Kurt; and Seeley, William G., 3,704,376.
- Seelig, Wolfgang Hagen: See—
Banse, Karlheinz Victor Hermann; Seelig, Wolfgang Hagen; Steinger, Jurg Hugo; and Herziger, Gerd Bernd, 3,705,999.
- Seeliger, Horst: See—
Genz, Heinz; Berger, Dieter; Pfeleiderer, Dieter; and Seeliger, Horst, 3,639,207.
Genz, Heinz; Berger, Dieter; Seeliger, Horst; and Schmidt, Karl, 3,642,573.
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- Seelinger, Richard W., to Ovitron Corporation. Package steam generator. 3,664,309, 5-23-72, Cl. 122-336.
- Seely, Robert M., to General Steel Industries, Inc. Resiliently supported articulated railway vehicle. 3,650,219, 3-21-72, Cl. 105-4.
- Seeman, Stephen E.: See—
Olsen, Larry C.; Seeman, Stephen E.; Griffin, Bobby L.; and Ambrose, Charles J., 3,706,893.
- Seemann, Fritz: See—
Troxler, Franz; and Seemann, Fritz, 3,671,587.
Troxler, Franz; and Seemann, Fritz, 3,692,836.
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Ashley, Eugene; Tassie, Douglas P.; and Seemann, James M., 3,698,283.
Ashley, Eugene; Tassie, Douglas P.; and Seemann, James M., 3,706,259.
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- Seeter, Richard E., Jr.; and Hodgson, George T., Jr., to Chomerics, Inc. Keyboard switch assembly with conductive plastic contactor and actuator spring sleeve biasing means. 3,705,276, 12-5-72, Cl. 200-5.00a.
- Seewer, Gustave A.: See—
Jager, Hans-Joachim, 3,659,753.
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Hebert, Richard A.; Moynihan, Daniel J.; Paul, Donald E.; Petrovic, Louis J.; Rubel, Peter A.; and Seferian, Ralph, 3,663,283.
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Ochi, Shikanosuke, 3,635,477.
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Friedman, David; and Segal, Bernard Mortimer, 3,694,935.
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Powers, Allen E.; and Segal, Robert, 3,660,841.
- Segall, Paul E. Preservation and storage of biologic materials. 3,677,024, 7-18-72, Cl. 62-64.000.
- Segalman, Irwin: See—
Goldberg, Perry; and Segalman, Irwin, 3,706,203.
- Segar, Lawrence P.: See—
Dym, Herbert; Mazza, Robert V.; and Segar, Lawrence P., 3,662,377.
Hall, Richard E.; and Segar, Lawrence P., 3,701,099.
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Pruitt, Charles N.; Segars, Douglas L.; and Miller, Walter L., 3,647,336.
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Nakatani, Taro; Nishimoto, Masaki; Segawa, Hiromi; and Yamamoto, Hiroshi, 3,660,836.
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Matsubayashi, Kanji; and Segawa, Hiroyuki, 3,679,633.
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Tanabe, Kenichi; Itoi, Kazuo; and Segawa, Hirozo, 3,651,017.
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Seto, Hiroshi; Ueda, Mituko; and Segawa, Humio, 3,704,625.
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Kusuno, Hideaki; Uchida, Miyoji; Segawa, Masahiro; and Kawakami, Yukichika, 3,642,684.
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Irakura, Tsutomu; Kasuga, Kazuga; and Segawa, Mitsuru, 3,647,805.
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Ishihara, Kazuo; Segawa, Toyoo; and Zaita, Hiroaki, 3,645,525.

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Bol, Jan Paul; Gebhart, Joseph; and Seger, Gunther, 3,695,765.
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Kraemer, Stefan; Seidl, Alois; and Seger, Michael, 3,652,310.
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Kuhre, Calvin J.; and Segerstrom, Clifford C., 3,663,478.
- Segerstrom, Richard J., to Video Logic Corporation. Video tape recorder system having means for suppressing video track crossover noise during slow and fast motion operation. 3,662,101, 5-9-72, Cl. 178-6.6.
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Krynski, John E.; and Seggebruch, Ernie G., 3,648,844.
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Henggeler, Aldo; Furter, Oskar; Crottaz, Roland; and Seghizzi, Hans, 3,694,987.
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Sucher, Josef; and Segieth, Oswald, 3,665,575.
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- Segmuller AG: See—
Segmuller, Bruno, 3,653,529.
Segmuller, Bruno, 3,661,289.
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Saumsiegle, Robert W.; and Segmuller, Bruno J., 3,694,124.
- Segre, Joseph P., to American Optical Corporation. Symmetrically pumped slab laser. 3,646,474, 2-29-72, Cl. 331-94.5.
- Segre, Joseph P., to American Optical Corporation. Electro-optical device for conversion of tangential and radial polarization components to rectangular coordinate components. 3,702,214, 11-7-72, Cl. 350-150.000.
- Segredo, John D., to International Harvester Company. Multiple row forage harvester. 3,654,752, 4-11-72, Cl. 56-98.
- Segro, Basil S., to Parker-Hannifin Corporation. Method and apparatus for setting the flow rate of a fuel injection nozzle. 3,641,802, 2-15-72, Cl. 72-377.
- Segro, Nicholas Richard, to FMC Corporation. Diallyl phthalate molding compositions. 3,689,453, 9-5-72, Cl. 260-41.00g.
- Segrove, Herbert Daymond, to British Industrial Sand Limited. Purification of sand. 3,634,032, 1-11-72, Cl. 23-182.
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Duthion, Louis; and Seguela, Claude Jean-Marie, 3,658,302.
- Seguin, Albert Charles Edward, to Lever Brothers Company. Method for loading containers with articles. 3,683,582, 8-15-72, Cl. 53-26.000.
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Mueller, David E.; and Segura, Marnell A., 3,690,930.
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- Seharada, Saburo: See—
Takamura, Akira; Kunii, Kazushi; Seharada, Saburo; and Nakatani, Hiroshi, 3,669,222.
- Sehlbach, Herbert, K.G., Firma: See—
Berns, Harald, 3,685,778.
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De Witt, Elmer J.; and Sehm, Eugene J., 3,632,679.
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Boksjo, Carl Ingvar; and Sehman, Bengt Allan, 3,670,217.
- Sehnal, Jan: See—
Zaruba, Wenzel; and Sehnal, Jan, 3,673,874.
- Sehnert, Robert J.: See—
Higgason, Frank G., Jr.; and Sehnert, Robert J., 3,664,577.
- Sehring, Richard: See—
Becher, Heinz-Manfred; and Sehring, Richard, 3,655,717.
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Reid, John D.; and Seibel, Arthur C., 3,648,968.
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Eggerlsen, Frank T.; Seibert, Elmer E.; and Stross, Fred H., 3,661,527.
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Schulze, Helmut; and Seibert, Gerhard, 3,645,775.
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Atwell, William H.; Salinger, Rudolf M.; and Seibert, Richard P., 3,639,105.
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Takada, Sadaharu, 3,680,851.
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Narabu, Jiro, 3,690,280.
- Seibury, William A., III, to Varifab, Inc. Print storage unit for data recording systems. 3,650,206, 3-21-72, Cl. 101-93.
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Packin, Milton; and Seid, Bernard, 3,683,181.
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Pommer, Horst; Seid, Bernhard; Nuerrenbach, Axel; Klotmann, Georg; and Grassner, Hans, 3,681,466.
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Abeck, Wilhelm; Kober, Heinrich; and Seidel, Bernhard, 3,652,334.
- Seidel, Charles S.: See—
Maule, Warren E.; and Seidel, Charles S., 3,637,253.
- Seidel, David Paul: See—
Meyer, Dolph Allan; Phelps, Ross Leslie; Seidel, David Paul; Dykes, Edward Henry; Clipsham, Ian Sweet; Gray, Donald; and Ractivand, Theodore Demetrius, 3,636,686.
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Beurrier, Henry R.; and Seidel, Harold, 3,638,134.
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Knufelmann, Manfred; and Seidel, Ingo, 3,684,888.
- Seidel, Joseph: See—
Foster, Karl; and Seidel, Joseph, 3,670,278.
- Foster, Karl; and Seidel, Joseph, 3,687,742.
- Seidel, Kendall R. Tilt-and-rotate bracket assembly. 3,650,503, 3-21-72, Cl. 248-285.
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Diery, Helmut; Kiefer, Bernhard; Rittner, Siegfert; and Seidel, Manfred, 3,671,308.
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Eckert, Theodor; and Seidel, Roland, 3,632,742.
- Seidel, Ulrich: See—
Belart, Juan; and Seidel, Ulrich, 3,670,122.
- Seidel, William C.: See—
Mitchell, William A.; and Seidel, William C., 3,657,010.
- Seiden, Lewis J.: See—
Lambert, James B.; Seiden, Lewis J.; and Morgan, Henry A., 3,689,856.
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Kraemer, Stefan; Seidl, Alois; and Seger, Michael, 3,652,310.
- Kraemer, Stefan; and Seidl, Alois, 3,707,385.
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Prochazka, Miloslav; Seidl, Karel; and Cesenek, Bedrich, 3,678,673.
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Seifert, Erich R., 3,694,843.
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- Seifert, Friedrich: See—
Rombusch, Konrad; Seifert, Friedrich; and Eichers, Ursula, 3,634,380.
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Landt, Uwe; Seifert, Helmut; and Bretschneider, Otto, 3,700,430.
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Gifford, Maurice J.; and Seiferth, Oscar E., 3,648,834.
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- Seiffarth, Werner: See—
Peché, Gerhard; and Seiffarth, Werner, 3,651,380.
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Haeusler, Jochen; Marz, Gunther; and Seiffert, Helmut, 3,680,397.
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Seiford, Donald S., Sr.; and Seiford, Robert R., 3,691,974.
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Kaempgen, Dieter; Schmidt, Willi J.; and Seifried, Walter, 3,653,948.
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Yoshifumi, Saeki; and Seiichiro, Kurihara, 3,688,199.
- Seike, Shoji: See—
Ogawa, Yutaka; Ogasawara, Takayuki; and Seike, Shoji, 3,658,583.
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- Seiki, Hajime: See—
Kanazawa, Kay Keiji; Seiki, Hajime; and Street, George Bryan, 3,700,498.
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Nemoto, Kenji, 3,685,111.
- Seil, Kenneth F.: See—
Colt, Ralph C.; and Seil, Kenneth F., 3,647,499.
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- Seiler, Charles J.: See—
Malloy, John F.; and Seiler, Charles J., 3,637,359.
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Ackermann, Hans; Seiler, Herbert; and Meindl, Hubert, 3,660,393.
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Venerable, James T.; Miyashiro, James; and Seiling, Alfred W., 3,647,849.
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- Seino, Kuniki, to Minolta Camera Kabushiki Kaisha. Method and apparatus for masking images by polarization. 3,671,104, 6-20-72, Cl. 350-157.000.
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- Green, Joseph; Roth, Shirley H.; and Seipel, John J., 3,703,487.
- Seipp, William H., to Gulf & Western Industries, Inc. High accuracy solid state timer. 3,671,817, 6-20-72, Cl. 317-141.00s.
- Seismic Computing Corporation: *See—*
- Taner, Mehmet Turhan, 3,697,938.
- Seismograph Service Corporation: *See—*
- Broding, Robert A., 3,701,968.
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- Zabroski, Frank; McDonald, Walter; and Seitel, Norbert J., 3,658,167.
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- Seiter, Hartmut: *See—*
- Sirtl, Erhard; and Seiter, Hartmut, 3,653,991.
- Seiter, Hartmut, to Siemens Aktiengesellschaft. Method of producing thin layer components with at least one insulating intermediate layer. 3,655,439, 4-11-72, Cl. 117-212.
- Seitz, August: *See—*
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- Seitz, Eugene W.: *See—*
- Pittet, Alan O.; and Seitz, Eugene W., 3,687,692.
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- Unger, Richard; Seitz, Georg; Klockow, Michael; and Mehrhof, Werner, 3,686,164.
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- Seitz, Martin A.: *See—*
- Jaskolski, Stanley V.; and Seitz, Martin A., 3,671,193.
- Seitz-Werke G.m.b.H.: *See—*
- Ahlers, Egon, 3,683,588.
- Kaiser, Klaus, 3,633,635.
- Thomas, Friedrich, 3,658,073.
- Seitzer, Dieter: *See—*
- Closs, Felix H.; Seitzer, Dieter; and Stucki, Peter, 3,647,949.
- Seitzer, Walter H., to Sun Oil Company. Coal dissolution process. 3,642,607, 2-15-72, Cl. 208-8.
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- Habermeier, Juergen; Porret, Daniel; and Seiz, Wolfgang, 3,644,365.
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- Seki, Hideo Company: *See—*
- Ueno, Katsumi; Oshima, Takao; and Seki, Hideo Company, 3,697,496.
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- Hayashi, Masahiro; Seki, Koichi; and Chinbe, Hiroshi, 3,689,126.
- Taniguchi, Tetsuji; Fukui, Kakichi; Imai, Shiro; Hayashi, Masahiro; and Seki, Koichi, 3,678,722.
- Seki, Kunio: *See—*
- Matsumura, Koji; and Seki, Kunio, 3,643,152.
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- Kosui, Tsuguo; Seki, Masahiro; Takamatsu, Shuji; and Kojima, Sakusaburo, 3,682,196.
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- Nakagami, Norihiko; Tanaka, Yasuyuki; Kotaka, Katsuhiko; and Seki, Masamitsu, 3,652,806.
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- Nishizawa, Jun-ichi; Sasaki, Ichimon; Ishida, Katsuhiko; Tsuchi, Syoji; Ishimura, Takeshi; Seki, Takeo; and Kozuma, Noboru, 3,634,849.
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- Kawakami, Yohei; Seki, Toshio; and Suzuki, Kozaburo, 3,682,992.
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- Kiyono, Hiroshi; and Sugiyama, Kohei, 3,679,788.
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- Fukuda, Tadanori; Takahashi, Masao; Ogihara, Shoji; and Sekiya, Masato, 3,706,589.
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- Lichtman, Irwin A.; Johnson, Milton R.; Sekula, Leo F.; and Dorn, Robert W., 3,639,616.
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- Hasselbach, Werner; and Pompili, Peter L., 3,691,441.
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- Johnson, James H.; and McGuire, William C., 3,647,118.
- Selectile Company, Inc.: *See—*
- Winnick, Jack M., 3,646,180.
- Selegny, Eric: *See—*
- Korngold, Emmanuel; and Selegny, Eric, 3,686,089.
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- Berne, Adriano; Cesarotti, Mario; and Benedetti Michalagelli, Glauco, 3,668,537.
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- Selig, Ernest T.: See—
Grangaard, Orrin H., Jr.; and Selig, Ernest T., 3,678,739.
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Goldberg, A. George, 3,667,691.
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Evans, Milton L.; Mitchell, Tyrone D.; and Selin, Terry G., 3,646,084.
Hamilton, Stephen B.; Beers, Melvin D.; Berger, Abe; and Selin, Terry G., 3,661,817.
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Holub, Fred F.; Berger, Abe; and Selin, Terry G., 3,657,304.
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Finger, Carl; Selinko, George J.; and Yeager, Stanley A., Jr., 3,634,732.
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Day, Leon E., 3,700,263.
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Taylor, Robert W.; and Sellers, Jerry W., 3,699,655.
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Barron, Norman, 3,696,395.
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Swanson, Forrest V.; and Sellon, Raymond N., Jr., 3,692,083.
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Bogash, Richard; Wolf, Milton; and Sellstedt, John H., 3,669,980.
Wolf, Milton; and Sellstedt, John H., 3,635,953.
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Anderson, Marshall N., 3,661,225.
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Darling, Alan Sydney; and Selman, Gordon Leslie, 3,672,880.
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Summers, Stanley E.; and Seltzer, Clyde W., 3,675,282.
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Evans, Ross Hugh; Seltzer, Daniel Arron; and Young, Robert Leonard, 3,700,816.
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Considine, William J.; and Seltzer, Raymond, 3,686,196.
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Anhalt, John W.; Maston, James W.; and Selvin, Gerald J., 3,656,091.
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Howes, John Gordon Bernard; and Selway, Rupert Aleck, 3,649,637.
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Bacha, John D.; and Selwitz, Charles M., 3,641,168.
Bacha, John D.; and Selwitz, Charles M., 3,655,783.
Bacha, John D.; and Selwitz, Charles M., 3,686,314.
Notaro, Vincent A.; and Selwitz, Charles M., 3,636,170.
Notaro, Vincent A.; and Selwitz, Charles M., 3,644,543.
Notaro, Vincent A.; Selwitz, Charles M.; and Walsh, William L., 3,644,552.
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Bufton, Richard G.; Semancik, John R.; and King, George G., 3,647,769.
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Tobinick, Sidney; and Semenoff, Arnold, 3,702,484.
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- Semenov, Mikhail Ivanovich: See—
Britvin, Lev Nikolaevich; Sergeev, Vitaly Andreevich; Spassky, Konstantin Semenovich; Smirnov, Igor Nikolaevich; Scheglov, Gennady Mikhailovich; Shtelmakh, Alexandr Alexandrovich; Prudovsky, Boris Moiseevich; Karakhanian, Vladimir Karpovich; Ivanov, Viktor Vasilievich; and Semenov, Mikhail Ivanovich, 3,659,969.
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Pluzhnikov, Viktor Mikhailovich; Kalantarov, Karl Davidovich; Gugin, Jury Yakovlevich; Semenov, Valentin Sergeevich; Zelenina, Valentina Vasilievna; and Filatov, Albert Ivanovich, 3,690,309.
- Semenov, Viktor Nikolaevich: See—
Kalner, Veniamin Davidovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Ryskind, Alexandr Moiseevich; Semenov, Viktor Nikolaevich; Stepin, Anatoly Loginovich; Surov, Mikhail Andreevich; Shepelyakovsky, Konstantin Zakharovich; and Shklyav, Isaak Nakhimovich, 3,696,225.
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Arkhangelsky, Lev Arkadievich; and Semenova, Ljubov Mikhailovna, 3,704,521.
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Schroeder, Hansjuergen A.; and Semenuk, Nick S., 3,634,505.
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- Semerjian, Joseph K.: See—
Britton, Leon R.; and Semerjian, Joseph K., 3,706,863.
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Economopoulos, Panayotis C.; and Hart, Thomas W., Jr., 3,636,377.
- Hart, Thomas W., Jr.; and Economopoulos, Panayotis C., 3,694,763.
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Perrinet, Paul Marie, 3,640,458.
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Nishizawa, Jun-ichi; and Sukegawa, Tokuzo, 3,633,059.
Nishizawa, Jun-ichi; Sasaki, Ichimon; Ishida, Katsuhiko; Tauchi, Syoji; Ishimura, Takeshi; Seki, Takeo; and Kozuma, Noboru, 3,634,849.
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Schäfer, Horst, 3,673,468.
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Schierz, Winfried, 3,691,629.
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Ioffe, Vladimir Fedorovich; Roitshtein, Garri Shmilevich; Vyat-skin, Iosif Yakovlevich; Tsyplin, Vladimir Grigorievich; Alex-androv, Vladimir Nikolaevich; and Semin, Gennady Gavrilovich, 3,659,070.
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Levin, Jordan J.; Semlitz, Edward F.; and Zinamon, Martin, 3,658,019.
- Semmens, Richard W. Floating game target. 3,652,090, 3-28-72, Cl. 273-104.
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Ernst, Hans; Semmler, Jürgen; Vohler, Otto; and Rubisch, Ott-mar, 3,659,139.
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Schwab, Johann; and Magritsch, Anna, 3,667,308.
Schwab, Johann; Buchel, Kurt; Eder, Otto; Hascic, Wladimir; and Marek, Ludwig, 3,698,027.
- Semperit Österreichisch-Amerikanische Gummiwerke Aktien-gesellschaft: See—
Brunner, Adolf, 3,698,108.
Jost, Wolf-Dieter; and Moritz, Karl-Gunter, 3,698,731.
Schwab, Johann; and Putz, Walter, 3,635,445.
Schwab, Johann; and Grill, Robert, 3,652,468.
Schwab, Johann, 3,662,478.
Schwab, Johann; and Hascic, Wladimir, 3,690,800.
Schwarz, Ernst; and Scherz, Peter, 3,659,996.
Wollmann, Ernest; and Zartl, Josef, 3,662,054.
- Semplonius, Frans; and Kolk, Stephen B., to Steelcase, Inc. Chair. 3,669,499, 6-13-72, Cl. 297-455.000.
- Semrow, Robert A.: See—
Dube, Milford J.; and Semrow, Robert A., 3,686,514.
- Semsel, Andrew Milo: See—
Rauhut, Michael McKay; and Semsel, Andrew Milo, 3,671,450.
- Semyachko, Rostislav Yakovlevich: See—
Emelyanov, Nester Petrovich; Belskaya, Rogneda Ivanovna; and Semyachko, Rostislav Yakovlevich, 3,652,460.
- Sen Electronique: See—
Gutmann, Johannes, 3,665,188.

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- Baum, Robert E., 3,688,184.
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- Mitchell, Robert W., 3,653,753.
- Senentz, Irwin M., Jr.: *See*—
- Notley, Norman T.; and Senentz, Irwin M., Jr., 3,653,902.
- Senes, Michel: *See*—
- Lhonore, Pierre; Quibel, Jacques; and Senes, Michel, 3,644,100.
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- Holm, Barry Douglas; and Senese, Daniel John, 3,649,963.
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- Schenck, Robert L.; Schenck, George E.; and Senft, Frank W., 3,680,347.
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- Duffey, Dick; Wiggins, Peter F.; and Senftle, Frank E., 3,638,020.
- Tanner, Allan B.; Senftle, Frank E.; and Moxham, Robert M., 3,702,932.
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- Meinhardt, James R., 3,675,887.
- Mikos, Aloysius J.; and Kubacki, Jerzy K., 3,637,185.
- Mikos, Aloysius J.; and Dlugosinski, Theodore, 3,694,828.
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- Ley, Kurt; Eholzer, Ulrich; Nast, Roland; and Seng, Florin, 3,660,398.
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- Seng, Florin; and Ley, Kurt, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of quinoxaline-di-N-oxide-aldehyde. 3,642,796, 2-15-72, Cl. 260-250.
- Seng, Florin; and Ley, Kurt, to Farbenfabriken Bayer Aktiengesellschaft. Quinoxaline-di-N-oxide-hydroxy-lactone and its production. 3,660,399, 5-2-72, Cl. 260-250.
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- Foster, Manus R.; Kerns, Clyde W.; and Sengbush, Raymond L., 3,689,874.
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- Senge, Ferdinand; Weirauch, Kurt; and Bottenbruch, Ludwig, to Farbenfabriken Bayer Aktiengesellschaft. Carbonate containing copolymerisation products and process for their production. 3,670,051, 6-13-72, Cl. 260-873.000.
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- Tanaka, Jun; and Nishibori, Yoshihiro, 3,684,496.
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- Senn, Charles A., III: *See*—
- Parker, Levi C.; and Senn, Charles A., III, 3,662,018.
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- Groves, Richard N., Jr.; Cain, Robert L.; and Senn, Robert F., 3,683,792.
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- Sennefelder, Anton: *See*—
- Bock, Helmuth-Joachim; and Sennefelder, Anton, 3,705,274.
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- Baader, Herbert; Sennewald, Kurt; Reis, Helmut; and Viertel, Gunther, 3,649,700.
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- Sennewald, Kurt; Hauser, Alfred; and Lork, Winfried, to Knapsack Aktiengesellschaft. Process for the manufacture of acrylic acid by the oxidation of propylene and/or acrolein. 3,647,867, 3-7-72, Cl. 260-530.
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- Healy, Mark, 3,666,181.
- Senninger, Carl J., 3,669,356.
- Sennowitz, Kurt H., to Elox Inc. Protective system for electrical discharge machining power supply circuit. 3,649,802, 3-14-72, Cl. 219-69.
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- Takehisa, Masaaki; Senrui, Shiro; and Nakajima, Hayato, 3,676,419.
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- Dalton, Wayne D.; Mackzum, Stanley C.; Mann, Friedrich H.; and Sensabaugh, Paul F., 3,644,873.
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- Sensburg, Bernd: *See*—
- Murawski, Josef; Schmucker, Anton; Sensburg, Bernd; and Lanzendorfer, Josef, 3,662,667.
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- Maggi, Nicola; and Sensi, Piero, 3,686,166.
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- Campton, Joseph M.; and Hammerslag, Julius G., 3,681,993.
- Sensney, Cleatus R., to Litton Systems, Inc. Laser marksmanship trainer. 3,633,285, 1-11-72, Cl. 35-25.
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- Bornemeier, Dwight D., 3,650,397.
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- Bergem, Normann; Blindheim, Ulf; Onsager, Olav-Torgeir; and Wang, Hagbarth, 3,652,687.
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- Winkler, John C.; and Senyard, Corley P., 3,676,412.
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- Rozkydalek, Jiri, 3,687,298.
- Seppo: *See*—
- Estis, Lonnie J., 3,687,598.
- Septon, Hugo H. Vortex flow process and apparatus for enhancing interfacial surface and heat and mass transfer. 3,648,754, 3-14-72, Cl. 159-13.
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- Seppie, Robert E., to Bendix Corporation. The. Method and apparatus for hardness testing. 3,690,157, 9-12-72, Cl. 73-78.000.
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- Septier, Louis: *See*—
- Percheron, Jean-Claude G.; and Septier, Louis, 3,661,566.
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- Lamberti, Vincent; and Sepulveda, Ralph R., 3,644,203.
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- Serafini, Marian; and Decubber, Maurice, to Societe Anonyme de Traverses en Beton Arme Systeme Vagneux. Railway sleeper and clip for securing a rail thereto. 3,658,247, 4-25-72, Cl. 238-349.000.
- Serafini, Angelo: *See*—
- Ciampa, Fred A.; Serafini, Angelo; and Mazzarella, Louis, 3,681,794.
- Serafini, Anthony R.; Balkovic, Joseph A.; Waller, Richard E.; and Wunch, Karl A. Food compacting and dispensing machine. 3,636,855, 1-25-72, Cl. 99-234.
- Seragnoli, Ariosto, to G. D. Societa in Accomandita Semplice di Enzo Seragnoli e Ariosto Seragnoli. Conveyor device having containers for storing and assembling overlying layered sets of side arranged cigarettes for packing up thereof as packets in cigarette packaging machines. 3,707,219, 12-26-72, Cl. 198-131.000.
- Seragnoli, Ariosto, to G. D. Societa in Accomandita Semplice di Enzo Seragnoli e Ariosto Seragnoli. Device for arranging articles supplied in bulk and individually and sequentially delivering them in alignment to wrapping up machines. 3,640,373, 2-8-72, Cl. 198-30.
- Seragnoli, Ariosto, to G. D. Societa in Accomandita Semplice di Enzo e Ariosto Seragnoli. Stabilizing device for cigarette packaging machines. 3,642,112, 2-15-72, Cl. 198-24.
- Seragnoli, Ariosto, to G. D. Societa in Accomandita Semplice di Enzo Seragnoli e Ariosto Seragnoli. Machine for forming and wrapping up individual articles such as candies. 3,670,475, 6-20-72, Cl. 53-234.000.
- Seragnoli, Ariosto, to G. D. Societa in Accomandita Semplice di Enzo Seragnoli e Ariosto Seragnoli. Apparatus for feeding cigarette containers to the hopper loading mechanism of a cigarette packaging-conditioning machine. 3,679,079, 7-25-72, Cl. 214-302.00.
- Serati S.P.R.L.: *See*—
- Lekane, Louis L., 3,645,383.
- Serata, Shosei. Method of controlling long term safety of underground entry system by regulating formation of stress envelopes. 3,673,807, 7-4-72, Cl. 61-35.000.
- Serck Industries Limited: *See*—
- Walton, Peter, 3,664,235.
- Walton, Peter, 3,677,297.
- Williams, William, 3,698,686.
- Serco Engineering Limited: *See*—
- Brooks, David; and Reteff, Arthur L., 3,662,416.
- Serdex-Societe d'Etudes de Recherches de Diffusion et d'Exploitation: *See*—
- Queval, Pierre J.; and Falconnet, Bernard L. M., 3,654,310.
- Serebrin, David, to Venture Enterprises, Inc. Wiglet attaching device. 3,669,129, 6-13-72, Cl. 132-46.
- Seree De Roch: *See*—
- Rouchaud, Jean; and Seree De Roch, 3,641,066.
- Seregely, Daniel W., to Gillette Company. The. Ball point pen ink reservoir containing an improved ink follower. 3,656,857, 4-18-72, Cl. 401-142.
- Sereno, John F.: *See*—
- Lund, Richard B.; Vitrone, John; and Sereno, John F., 3,634,523.
- Seres, Alex, to Incoe Corporation. Nozzle for an injection molding machine. 3,707,265, 12-26-72, Cl. 239-601.000.
- Serfahs, Arthur S.; and Patzke, Robert C., to Addressograph-Multi-graph Corporation. Copy sheet transport apparatus. 3,653,755, 4-4-72, Cl. 355-3.
- Sergan, Anthony J., to Raymond Engineering, Inc. Mechanical torque wrench and a hydraulic readout therefor. 3,683,686, 8-15-72, Cl. 73-139.000.
- Sergan, Micheline: *See*—
- Eberle, Jeannine; Sergan, Micheline; Faurian, Claude; and Huguet, Gerard M., 3,639,476.
- Sergant, Micheline Y.: *See*—
- Eberle, Jeannine A.; Sergant, Micheline Y.; Fauran, Claude P.; and Huguet, Gerard J., 3,642,898.

- Sergeev, Alexandr Georgievich: *See*—
Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Idelevich; Zhabin, Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhikhin, Vladimir Petrovich; Rubnikovich, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Ussyaslav Iosifovich; Sharipova, Raviya Davlyatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorievich, 3,654,325.
- Sergeev, Vitaly Andreevich: *See*—
Britvin, Lev Nikolaevich; Sergeev, Vitaly Andreevich; Spassky, Konstantin Semenovich; Smirnov, Igor Nikolaevich; Scheglov, Gennady Mikhailovich; Shtelmakh, Alexandr Alexandrovich; Prudovsky, Boris Moiseevich; Karakhanian, Vladimir Karlovich; Ivanov, Viktor Vasilievich; and Semenov, Mikhail Ivanovich, 3,659,969.
- Sergeev, Vladimir Alexandrovich: *See*—
Korshak, Vasily Vladimirovich; Volpin, Mark Efimovich; Sergeev, Vladimir Alexandrovich; Shitikov, Valentin Kuzmich; and Kolomnikov, Igor Sergeevich, 3,705,131.
- Sergeev, Vyacheslav Mikhailovich: *See*—
Tsenter, Boris Ioselevich; Sergeev, Vyacheslav Mikhailovich; and Kloss, Alexandr Ilich, 3,669,744.
- Sergerie, Felix Antoine, to Alcan Research and Development Limited. Apparatus for continuous casting of metal ingots. 3,702,631, 11-14-72, Cl. 164-274.000.
- Sergi Bros., Inc.: *See*—
Cappella, Michael, 3,667,633.
- Sergo, John Robert, Jr., to Bell Telephone Laboratories, Incorporated. Analog to digital encoder. 3,668,691, 6-6-72, Cl. 340-347.0ad.
- Serino, Enrico; Antoniu, Demetrio; Magi, Mario; Ganzina, Fabrizio; and Samuelli, Fabio, to S.I.R. Laboratori Chimico-Biologici S.p.A. Derivatives of norbornene-2,3-dicarboxyimide and of norbornene-2,3-dicarboxyimide and method for preparing them. 3,651,059, 3-21-72, Cl. 260-247.2.
- Serkov, Anatoly Gavrilovich: *See*—
Berlin, Zalman Leivikovich; Bagrov, Oleg Nikolaevich; Maslovsky, Gennady Vasilievich; Serkov, Anatoly Gavrilovich; and Yakimovich, Viktor Yakovlevich, 3,673,988.
- Serlin, Irving, to Monsanto Company. Treatment of glass cloth. 3,661,617, 5-9-72, Cl. 117-54.
- Sermons, Gunar Yanovich: *See*—
Ioffe, Benjamin Alexandrovich; Lapidus, Mikhail Khaimovich; Preis, Vladimir Viktorovich; Kalnin, Robert Karlovich; Sermons, Gunar Yanovich; Dorofeev, Vyacheslav Semenovich; Zheigur, Bruno Domenikovich; Shevchenko, Alexandr Alexandrovich; Denisov, Gennady Alexandrovich; Mikelson, Artur Eduardovich; and Makhlin, Aron Judovich, 3,662,302.
- Serniuk, George E.: *See*—
Powers, Kenneth W.; and Serniuk, George E., 3,660,160.
- Serota, Samuel; and Rothman, Edward S., to United States of America, Agriculture. Process for the preparation of isopropenyl stearate. 3,666,781, 5-30-72, Cl. 260-410.90n.
- Serowiecki, Gilbert J. Clamping unit and drain filter for washing machine drain lines. 3,638,799, 2-1-72, Cl. 210-462.
- Serpas, Luis B.: *See*—
Ellers, Frederick S.; Small, Sam W.; and Serpas, Luis B., 3,674,062.
- Serra, Guy: *See*—
Allen, William S.; and Serra, Guy, 3,642,587.
- Serra, Juan Duarry. Collapsible inflatable boat. 3,694,836, 10-3-72, Cl. 9-2.00a.
- Serra, Primo, to Olivetti, Ing. C., & C., S.p.A. Device for locking a tool on a spindle of a machine tool. 3,684,303, 8-15-72, Cl. 279-82.000.
- Serracchioli, Francesco; and Bartocci, Antonio, to Olivetti, Ing. C., & C., S.p.A. Terminal apparatus for transmitting and receiving information. 3,648,251, 3-7-72, Cl. 340-172.5.
- Serracchioli, Francesco; and Restivo, Francesco, to Olivetti, Ing. C., & C., S.p.A. Terminal apparatus. 3,678,179, 7-18-72, Cl. 178-4.100.
- Serrano, Francisco M.: *See*—
Marion, Henri A.; Orioux, Pierre P.; and Serrano, Francisco M., 3,652,196.
- Serrano, Francisco M., to Compagnie Francaise des Petroles. Mobile carrying system for depositing loads on the ocean bottom. 3,633,529, 1-11-72, Cl. 114-16.
- Serrano, Francisco M., to Compagnie Francaise des Petroles Societe Anonyme. Fluid controlled pipe connector. 3,638,969, 2-1-72, Cl. 285-18.
- Serrano, Francisco M., to Compagnie Francaise des Petroles. Devices and methods of connecting two inhabitable enclosures under water. 3,640,078, 2-8-72, Cl. 61-69.
- Serrano, Francisco M., to Compagnie Francaise des Petroles. System for joining the lock chambers of a submarine and an underwater enclosure. 3,656,308, 4-18-72, Cl. 61-69.
- Serrano, Leonardo V., to Rosemount Inc. Measurement apparatus having non-contact electrical coupling to components on a moving surface. 3,674,963, 7-4-72, Cl. 219-10.610.
- Serrell, John L., to Parke, Davis & Company, mesne. Pharmacal package construction. 3,659,706, 5-2-72, Cl. 206-56.
- Serrell, Peter V. H. Orbiting roller mechanical vibration generator. 3,659,467, 5-2-72, Cl. 74-87.
- Serres, Carl, Jr.: *See*—
Morello, Edwin F.; and Serres, Carl, Jr., 3,652,498.
- Serres, Carl, Jr.; and Bolton, Benjamin A., to Standard Oil Company. Use of phosphorus compounds as stripping agents for polyamide-imide films. 3,691,136, 9-12-72, Cl. 260-78.0tf.
- Serrie, Shelagh; Mc Grady, Seamus; and Bloomer, Richard. Apparatus to match levels of reading ability to corresponding levels of reading matter. 3,680,229, 8-1-72, Cl. 35-35.00r.
- Sersale, Riccardo; Franco, Enrico; Jello, Rosario; and Colella, Carmine, to Snam Progetti, S.p.A. Process for producing synthetic zeolite. 3,694,152, 9-26-72, Cl. 423-329.0on.
- Sertna, Societe d'Etudes et de Recherches de Techniques Nouvelles Appliquees S.A.: *See*—
Meunier, Renee J. Louise; and Marmonier, Monique Adele, 3,664,506.
- Servadio, Robert. Automatic safety seat clamp. 3,700,281, 10-24-72, Cl. 297-390.000.
- Servais, Albert: *See*—
Plumat, Emile; Bohain, Pierre; and Servais, Albert, 3,683,848.
- Servco Company, The: *See*—
Van Note, Charles O., 3,642,079.
- Servi, Italo S. Article of manufacture and process of making it. 3,649,254, 3-14-72, Cl. 75-154.
- Service (Engineers) Limited: *See*—
Bradshaw, Arthur; and Meadows, Frank William, 3,655,319.
- Bradshaw, Arthur; and Podmore, Dennis, 3,685,940.
- Service d'Exploitation Industrielle des Tabacs et des Allumettes: *See*—
Anfossi, Henri, 3,690,434.
- Service d'Exploitation Industrielle des Tabacs et des Allumettes: *See*—
Bonneric, Francis, 3,682,263.
- Caron, Jean, 3,695,151.
- Godet, Jean, 3,646,971.
- Pietrucci, Andre; and Imbert, Pierre, 3,659,620.
- Pietrucci, Andre, 3,661,159.
- Poupin, Raymond, 3,631,749.
- Prigent, Claude, 3,642,115.
- Service Dynamics, Inc.: *See*—
Grazier, Robert L.; and Kudingo, Kenneth F., 3,670,512.
- Service National dit: Gaz de France: *See*—
Vignes, Roger, 3,635,209.
- Vignes, Roger, 3,687,602.
- Servo Corporation of America, mesne: *See*—
Reynolds, Christopher C., 3,700,860.
- Servodyne Corporation: *See*—
De Baum, Kenneth W., 3,707,046.
- Servotronics, Inc.: *See*—
Trbovich, Nicholas D.; Meyer, William H.; and Bauer, Paul R. (said Meyer and said Bauer assors. to), 3,639,871.
- Sesame, John Kraft, Corporation: *See*—
Kraft, John H., 3,669,678.
- Sese, Kiyoaki, to Asahi Glass Co., Ltd. Method for the manufacture of magnesium hydroxide. 3,658,473, 4-25-72, Cl. 23-201.
- Sesko, William J.: *See*—
Morrow, Robert D.; and Sesko, William J., 3,682,183.
- Sesko, William J. Fare box with belt conveyor and coin size detector. 3,667,485, 6-6-72, Cl. 133-8.000.
- Sesky, Julius; and Clark, Charles J. Traction attachment for vehicles. 3,695,727, 10-3-72, Cl. 301-43.000.
- Sessions, Donald W. Hulls in water craft. 3,704,473, 12-5-72, Cl. 9-2.00s.
- Sessler, Donald R., to Dynametric, Inc. Method for detecting aging of articles. 3,638,495, 2-1-72, Cl. 73-362.
- Sessler, Gerhard M.; and West, James Edward, to Bell Telephone Laboratories, Incorporated. Method for producing permanent electret charges in dielectric materials. 3,644,605, 2-22-72, Cl. 264-22.
- Sessler, Gerhard Martin; and West, James Edward, to Bell Telephone Laboratories, Incorporated. Method and apparatus for measurement of surface charge of an electret. 3,652,932, 3-28-72, Cl. 324-72.
- Sessler, Gerhard Martin; Wallace, Robert Lee, Jr.; and West, James Edward, to Bell Telephone Laboratories, Incorporated. Touch-sensitive switch employing electret foil. 3,668,417, 6-6-72, Cl. 307-113.000.
- Sessler, Gerhard Martin; and West, James Edward, to Bell Telephone Laboratories, Incorporated. Preparation of electret transducer elements by application of controlled breakdown electric field. 3,705,312, 12-5-72, Cl. 307-88.0et.
- Sessody, Donald W., to Applied Power Industries, Inc. Fluid operated vise. 3,632,102, 1-4-72, Cl. 269-25.

- Sessody, Donald W., to Applied Power Industries, Inc. Multiple collet chuck. 3,632,122, 1-4-72, Cl. 279-4.
- Sessody, Donald W., to Applied Power Industries, Inc. Traversing workholding clamp. 3,700,227, 10-24-72, Cl. 269-24.000.
- Sestanji, Kazimir; and Chomedey, Laval, to Ayerst, McKenna & Harrison Limited. Dimethylbenzodithian-2-oxide. 3,682,963, 8-8-72, Cl. 260-327.00r.
- Sesti, Ferdinand: *See*—
Sesti, Joseph J.; and Sesti, Ferdinand, 3,706,456.
- Sesti, Joseph J.; and Sesti, Ferdinand. Board game apparatus. 3,706,456, 12-19-72, Cl. 273-135.0ac.
- Sestrich, Donald E., to Westinghouse Electric Corporation. Pyrolytic deposition of silicon nitride films. 3,637,423, 1-25-72, Cl. 117-106.
- Seta, Shigetoshi: *See*—
Seko, Maomi; Yomiyama, Akira; Takahashi, Yasunobu; Seta, Shigetoshi; and Nakagawa, Koji, 3,664,936.
- Setescak, Linda Louise: *See*—
Narayanan, Venkatachala Lakshmi; Setescak, Linda Louise; and Weisenborn, Frank Lee, 3,668,206.
- Seth, Kishan K.: *See*—
Frey, Frederick W., Jr.; Hutchinson, Donald O.; and Seth, Kishan K., 3,661,561.
- Seth, Kishan K.; and Lanier, Carroll W., to Ethyl Corporation. Reactor and method of making aluminum-silicon alloys. 3,661,562, 5-9-72, Cl. 75-68.
- Seth, Ram Gopal, to American Standard, Inc. Water heater having fluidized bed combustion and heat exchange region. 3,645,237, 2-29-72, Cl. 122-4.
- Setina, John R. Automobile partition apparatus having horizontal sliding window portion mounted on guard plate. 3,667,801, 6-6-72, Cl. 296-24.00r.
- Setnik, Harry A., to United States of America, Air Force, mesne. Mandrels. 3,652,024, 3-28-72, Cl. 242-1.
- Setnikar, Ivo: *See*—
Bonola, Giuseppe; Da Re, Paolo; and Setnikar, Ivo, 3,637,681.
- Seto, David K.: *See*—
Doo, Ven Y.; Regh, Joseph; and Seto, David K., 3,701,659.
- Seto, Hiroshi; Ueda, Mituko; and Segawa, Humio, to Sankyo Keiryokai Kabushiki Kaisha. Thermometer using liquid crystal compositions. 3,704,625, 12-5-72, Cl. 73-356.000.
- Seto, Tetsuki: *See*—
Hamada, Takaki; Nakashio, Seizo; Maruta, Isao; Hayatsu, Kazuo; Seto, Tetsuki; and Kono, Yoichi, 3,700,630.
- Seto, Yoshihiro, to Fuji Photo Film Co., Ltd. Light-intercepting composition for photographic light-sensitive film. 3,660,153, 5-2-72, Cl. 117-155.
- Setoguchi, Shinro: *See*—
Nakanishi, Michio; Munakata, Tomohiko; and Setoguchi, Shinro, 3,706,764.
- Setone, Isami; and Yoshino, Akira, to Matsushita Electric Works, Ltd. Circuit protector. 3,689,855, 9-5-72, Cl. 335-63.000.
- Setser, Donald D., to Dow Chemical Company, The. Sleep sensing apparatus for use on automotive vehicles. 3,678,494, 7-18-72, Cl. 340-279.000.
- Setser, James L.; and Schneider, Eugene P., Jr., to General Electric Company. Combined wastewater treatment and power generation. 3,635,764, 1-18-72, Cl. 136-86.
- Setsuda, Kiyosuke; and Sugiyama, Iwakichi, to Matsumoto Seiyaku Kogyo Kabushiki Kaisha. Adhesive composition containing a cyanoacrylate as its main ingredient. 3,692,752, 9-19-72, Cl. 260-78.500.
- Settanni, Richard: *See*—
Lee, Donald S.; and Settanni, Richard, 3,692,250.
- Settele, Helmut: *See*—
Gotschel, Hans; and Settele, Helmut, 3,680,620.
- Setterquist, Robert Alton, to Du Pont de Nemours, E. I., and Company. Method for preparing random copolymers of formaldehyde and olefin oxides and/or vinyl ethers. 3,661,854, 5-9-72, Cl. 260-67.
- Settimi, Raymond J. Restraint apparatus. 3,679,228, 7-25-72, Cl. 280-150.0sb.
- Settineri, William J.: *See*—
Wessling, Ritchie A.; and Settineri, William J., 3,697,398.
- Settineri, William J.; and Wessling, Ritchie A., to Dow Chemical Company, The. Process for producing bisorganomercury compounds by the electroreduction of sulfonium compounds. 3,649,483, 3-14-72, Cl. 204-72.
- Settineri, William J.; and Wessling, Ritchie A., to Dow Chemical Company, The. Electrolytic process for the preparation of α -methylbenzyl dimers from sulfonium compounds. 3,660,257, 5-2-72, Cl. 204-72.
- Settineri, William J.; and Wessling, Ritchie A., to Dow Chemical Company, The. Process for producing bisorganomercury compounds. 3,681,419, 8-1-72, Cl. 260-433.000.
- Settipani, Antoine: *See*—
Gaggero, Giancarlo; Mongini-Tamagnini, Carla; and Settipani, Antoine, 3,700,162.
- Settlage, Paul Herman; and Thornton, Roger Lea, to Du Pont de Nemours, E. I., and Company. Process for preparing a coating composition of copolymeric vinylidene chloride. 3,701,745, 10-31-72, Cl. 260-28.50r.
- Setty, Richard D.: *See*—
Werner, Ben E.; and Setty, Richard D., 3,669,308.
- Setzer, Henry J., to Dennison Manufacturing Company. Precut composite tape structure. 3,690,999, 9-12-72, Cl. 161-39.000.
- Setzer, Herbert J., to United Aircraft Corporation. Hydrogen generator desulfurizer employing feedback ejector. 3,655,448, 4-11-72, Cl. 136-86.
- Setzler, Paul C., to Heli-Coil Corporation. System for insertion tool control. 3,654,688, 4-11-72, Cl. 29-240.
- Seuferer, Paul A.: *See*—
Martin, Kenneth G.; and Seufferer, Paul A., 3,701,936.
- Seufert, Ludwig E.: *See*—
Blume, Roe C.; and Seufert, Ludwig E., 3,651,199.
- Seulen, Gerhard; and Reinke, Friedhelm, to AEG-Elotherm G.m.b.H. Method and apparatus for hot straightening elongated metal workpieces. 3,631,698, 1-4-72, Cl. 72-56.
- Seulen, Gerhard; Reinke, Friedhelm H.; and Stengel, Edgar, to AEG-Elotherm G.m.b.H. Process for the improvement of the development of the texture of inductive surface-hardened steel parts. 3,682,721, 8-8-72, Cl. 148-131.000.
- Seulen, Gerhard; and Von Starck, Axel, to AEG-Elotherm G.m.b.H. Method for casting metered quantities of liquid metals. 3,696,858, 10-10-72, Cl. 164-49.000.
- Seus, Edward J.: *See*—
Herz, Arthur H.; Burness, Donald M.; and Seus, Edward J., 3,706,562.
- Sevag, Manasseh G., to University of Pennsylvania. The trustees of the. Antimutagenic treatment of bacteria. 3,689,646, 9-5-72, Cl. 424-181.000.
- Sevaon Engineering Limited: *See*—
Sloan, Albert Everett; and Turnbull, Alistair Gordon, 3,699,416.
- Sevc, John M.; and Pierce, Howard E., Jr., to Litton Systems, Inc. Apparatus and method for aligning a plurality of connector mounted pins by deformation and reformation thereof. 3,664,016, 5-23-72, Cl. 29-628.
- Sevcon Engineering Limited: *See*—
Gurwicz, David, 3,646,414.
- Gurwicz, David, 3,648,151.
- Sevensh, Theodor: *See*—
Fabian, Wolfgang; Sevenich, Theodor; and Kuhn, Klaus, 3,648,861.
- Nellen, Wilhelm; Sevenich, Theodor; and Wladika, Hans, 3,693,393.
- Sevenich, Theodor; Zahn, Friedrich; and Zens, Peter, to Maschinen- und Werkzeugbau GmbH. System for the replacement of rolling-mill rolls. 3,695,080, 10-3-72, Cl. 72-239.000.
- Sevenich, Theodor Josef; Fabian, Wolfgang; and Kuhn, Klaus, to Maschinen- und Werkzeugbau GmbH. Pusher-type furnace. 3,700,122, 10-24-72, Cl. 214-24.000.
- Sevenska Dalaregister AB: *See*—
Skoog, Hilding G. A., 3,675,109.
- Severance, William A. N., to Du Pont de Nemours, E. I., and Company. Photographic emulsion silver gage. 3,688,110, 8-29-72, Cl. 250-51.500.
- Severini, Febo; Valvassori, Alberto; and Tavazzani, Carlo, to Montecatini Edison S.p.A. Preparation of polymeric compositions of high anti-impact resistance. 3,676,528, 7-11-72, Cl. 260-878.00r.
- Severino, Regina. Adhesively attached slide fastener and tape assembly. 3,685,103, 8-22-72, Cl. 24-205.160.
- Severn, Alpha, 1/2 to Coon, James A. and 1/2 to Theobald, Edwin. Carburetor and dash pot control therefor. 3,682,449, 8-8-72, Cl. 261-23.00a.
- Severn, Arthur Charles, to Lucas, Joseph, (Industries) Limited. Warning circuits for road vehicles. 3,649,960, 3-14-72, Cl. 340-52.
- Severodonetsky Filial Niihimash: *See*—
Bodonov, Igor Vasilievich; Modestov, Boris Sergeevich; and Ivanchenko, Viktor Vasilievich, 3,704,076.
- Severson, Kermit H. Tablet container with closure element. 3,651,979, 3-28-72, Cl. 220-41.
- Severus, Harald: *See*—
Schrade, Jean; Severus, Harald; and Muller, Walter, 3,660,207.
- Severynse, Gerard T.: *See*—
Fisher, Donald J.; and Severynse, Gerard T., 3,655,373.
- Severynse, Gerard T., to Xerox Corporation. Ionized air cleaning device. 3,668,008, 6-6-72, Cl. 134-1.000.
- Severynse, Gerard T., to Xerox Corporation. Imaging system. 3,697,408, 10-10-72, Cl. 204-300.000.
- Sevilla, Ernesto G.: *See*—
Breslin, Mary Anne; Cogar, George R.; Lee, Charles A.; Nedenriep, Donald O.; Romeo, Albert J.; Sevilla, Ernesto G.; and Sekse, Torkjell, 3,670,144.
- Sevilla, Ernesto G., to Singer Company, The. Relaxation oscillator with output frequency selectively shiftable between two limits. 3,633,128, 1-4-72, Cl. 331-111.
- Sevilla, Ernesto G. Data recovery timing control circuit. 3,693,098, 9-19-72, Cl. 328-130.000.

- Sevin, Rene G.: *See*—
Cintract, Bernard G.; and Sevin, Rene G., 3,682,259.
Cintract, Bernard G.; and Sevin, Rene G., 3,702,640.
- Sevy, William R.: *See*—
Johnson, William R.; Sevy, William R.; Weigel, James E.; and
Taller, Robert A., 3,701,746.
- Sew Fit Co.: *See*—
Oblander, Ruth, 3,685,155.
Oblander, Ruth, 3,694,921.
- Sewall, Ivan, Inc.: *See*—
Blum, Josef, 3,706,413.
- Seward, Thomas P., III: *See*—
Araujo, Roger J.; Sawchuk, Lorin G.; and Seward, Thomas P.,
III, 3,703,388.
- Sewelin, Ernest R.: *See*—
Graham, Stanford G.; Sewelin, Ernest R.; Staadt, Richard L.;
and Pinney, Jimmie D., 3,638,749.
- Sewell, Curtis O.: Door threshold and fastener assembly. 3,667,192,
6-6-72, Cl. 52-213.
- Sewell, Ernest.: Crease-resistant woven cotton sheeting and a process
for its production. 3,689,313, 9-5-72, Cl. 117-139.400.
- Sewell, Frank A., Jr.: to Sperry Rand Corporation. Optical memory
circuit. 3,648,258, 3-7-72, Cl. 340-173.
- Sewell, Kenneth G.: *See*—
Boatner, Lynn A.; and Sewell, Kenneth G., 3,651,426.
- Sewell, Kenneth G.: to Advanced Technology Center, Inc., mesne.
Logic device employing light-controlled Gunn-effect oscillations.
3,651,423, 3-21-72, Cl. 331-66.
- Sewprima Limited: *See*—
Sturges, Nigel; and Nutton, Leonard Charles, 3,636,901.
- Sexauer, Richard F.: Removable self-jetting pile. 3,664,139, 5-23-72,
Cl. 61-53.74.
- Sexsmith, Frederick H.: *See*—
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- Sexsmith, Frederick H.: to Millmaster Onyx Corporation. Method of
manufacturing ready-to-wear crease-retentive garments. 3,660,009,
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- Sextone, John H.: to Brown and Williamson Tobacco Corporation.
Cigarette paper tube manufacture. 3,693,313, 9-26-72, Cl. 53-
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- Sexton, Charles W., Jr.: to General Electric Company. Temperature
compensation means for electronic circuit. 3,686,517, 8-22-72, Cl.
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Mokrzycki, Stanley Martin; Sexton, Edwin Leon; Powers,
Thomas George; and Melnick, Daniel, 3,677,768.
- Sexton, Paul A.: Hand type fish scaling device. 3,667,086, 6-6-72, Cl.
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- Seya, Hiromichi: *See*—
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Mikio, 3,645,700.
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- Seyb, Edgar John, Jr.: *See*—
Waggoner, Terry Bill; and Seyb, Edgar John, Jr., 3,639,153.
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Bossard, Hans Heinrich; Leifels, Klaus-Dieter; and Seyberlich,
Bernd, 3,682,682.
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Lindenberg, Hans-Georg; and Seyberlich, Rolf, 3,689,322.
- Seybold, Frederick W.: Varying motion planetary gear drive.
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Fischer, Robert E.; Raiff, Lawrence C.; Seybold, James M.; and
Zimmerle, Donald F., 3,674,924.
- Seybold, Rolf.: Attachment device for a retaining belt. 3,680,913, 8-
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- Seybolt, Alan U.: to General Electric Company. Chromium-contain-
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- Seyfarth, Robert.: to General Motors Corporation. System for mixing
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(trihalomethyl) mercury compounds. 3,658,861, 4-25-72, Cl. 260-
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tries, Inc. Apparatus for inductively heating an elongated work-
piece. 3,648,995, 3-14-72, Cl. 266-4.
- Seyfried, Richard F.; and Balzer, Norbert R.: to Park-Ohio Indus-
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- Seyfried, Richard F.: to Park-Ohio Industries, Inc. Method and ap-
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seat. 3,684,852, 8-15-72, Cl. 219-10.570.
- Seyl, Robert G.: Method of measuring accelerated corrosion rate.
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- Seymour, Donald E.: Composite fuel article. 3,635,684, 1-18-72, Cl.
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- Seymour, Errol V.; Davison, Sol; and Haeefe, Walter R.: to Shell
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hydrocarbon liquids. 3,682,187, 8-8-72, Cl. 137-13.000.
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Willsey, Charles H., 3,699,744.
- Seymour, Fredrick C.: *See*—
Rothschild, Bill F.; Seymour, Fredrick C.; and Thomas, Jon G.,
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- Seymour, Glenn C.: 51% to Clapp, George R. Vehicle wheel dolly.
3,653,527, 4-4-72, Cl. 214-331.
- Seymour, Lee J.: *See*—
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J.; and Seymour, Lee J., 3,648,819.
- Seymour, Malcolm.: to Prototypes, Inc. Navigational distance com-
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H., 3,697,388.
- Seymour, Shaun A.; and Smith, Hugh E.: to Sperry Rand Corpora-
tion. Independent front and rear lift system. 3,658,137, 4-25-72,
Cl. 172-300.000.
- Seymour, William D.: Baton and ring game. 3,659,849, 5-2-72, Cl.
273-96.
- Sezzi, Franco: *See*—
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Inc. Preparation of a caramel flavored protein hydrolysate.
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- SFB Spezial-Filtesbau M. Ofner K.G.: *See*—
Leonberg, Max Ofner, 3,694,242.
- Sfinteanu, Dragos; and Paul, Marius Angelo, to Uzina 23 August.
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- SFM Corporation: *See*—
Smith, Edwin R.; and Cafolla, Constantine F., 3,667,114.
- Sformo, James P.: *See*—
Goode, John P.; Saeli, John J.; and Sformo, James P.,
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- Sgambati, Anthony P.: *See*—
Kamenia, Fred; and Sgambati, Anthony P., 3,688,543.
- Shabad, Zygmund: *See*—
Herrmann, Frank A.; and Shabad, Zygmund, 3,683,290.
- Shabarack, John: *See*—
Pryor, Michael J.; Shapiro, Stanley; Tyler, Derek E.; and
Shabarack, John, 3,676,088.
- Shabe, John Edward: *See*—
Blackwell, Wayne Waldo; Earle, John Goodell; O'Connell, John
Joseph; Pierce, Edwin Bruce; and Shabe, John Edward,
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Emmons, William D.; Moser, Vincent J.; Brodnyan, John G.;
and Shachat, Norman, 3,705,053.
- Shachat, Norman; Haggard, Richard A.; and Lewis, Sheldon N.: to
Rohm & Haas Company. Method of producing betaines,
monomers and polymers containing betaine-type units and novel
and useful copolymers thereby obtained. 3,689,470, 9-5-72, Cl.
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- Shachter, Moses, to Ford Motor Company. Steering system with
powered recovery mechanism. 3,654,820, 4-11-72, Cl. 74-495.
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Criss, William H.; and Shackelford, John R., 3,699,877.
- Shackelford, Ronald E.: *See*—
Leffingwell, John C.; and Shackelford, Ronald E., 3,689,562.
- Shackelford, William E.; and Fullen, Warren J.: Polyurea polymer
preparation from organic polyisocyanates and complex derivatives
of polyamines wherein the primary amine groups thereof are con-
verted to aldimine or ketimine groups and the secondary amine
group or groups thereof have been reacted with organic iso-
cyanates. 3,682,867, 8-8-72, Cl. 260-77.5ch.
- Shackelford, Ralph Edward: *See*—
Whitton, Richard Wilfred; Southall, Ronald Herbert; McKenzie,
Michael William; and Shackelford, Ralph Edward, 3,653,979.
- Shacklock, Frank W.: *See*—
Melville, Alfred W.; Shacklock, Frank W.; and O'Hare, David
H., 3,638,926.
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sewer pipe cleaner. 3,658,589, 4-25-72, Cl. 134-10.
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tandem piston pump. 3,700,360, 10-24-72, Cl. 417-404.000.
- Shadduck, Laurine R.: Food chopper. 3,667,519, 6-6-72, Cl. 146-
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mesne. Bidirectional waveform generator with switchable input.
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- Shader, Benjamin A.: to Eversman Mfg. Company, The. Photo-elec-
tric plant thinners. 3,654,998, 4-11-72, Cl. 172-6.
- Shadle, Paul W.: to United States of America, Air Force. Method
and system of surveillance processing. 3,699,577, 10-17-72, Cl.
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Casson, Edward A., Jr.; Gaul, Albrow T.; Langlais, Eugene L.;
Shadlen, Gerald; and Vanaver, Eugene L., 3,658,662.
- Shaefer, Lewis H.: *See*—
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Quadrupole fail safe insulator. 3,634,610, 1-11-72, Cl. 174-184.
- Shafer, John I.: *See*—
Bailey, Richard L.; Dowler, Warren L.; and Shafer, John I.,
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Budzak, Steve, 3,674,259.
- Shafer, Merrill W.: to International Business Machines Corporation.
Anionic doped divalent europium chalcogenides. 3,704,278, 11-
28-72, Cl. 252-62.510.
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Cortorillo, Salvatore; Shaffer, George A.; and Strauss, Herbert
S., 3,636,401.
- Shaffer, Harry L.: *See*—
Manley, Harold J.; and Shaffer, Harry L., 3,681,530.
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decoding utilizing symmetry. 3,634,668, 1-11-72, Cl. 235-156.
- Shaffer, Howard A.: *See*—
Weaver, Galen K.; Shaffer, Howard A.; and Coughlin, Stephen
A., 3,676,575.
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Grytko, Carl E.; and Shaffer, Howard R., 3,703,691.
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Cl. 425-276.000.
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W., 3,667,992.
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and method of preparing and applying fulminating material.
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- Shaffer, John W.: and McDonough, Thomas B.: to GTE Sylvania In-
corporated. Photographic flashlamp unit. 3,665,176, 5-23-72, Cl.
240-1.300.
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lamp. 3,674,411, 7-4-72, Cl. 431-93.000.
- Shaffer, John W.; and Bennett, Sedgwick R.: to Sylvania Electric
Products, Inc. Photographic flashlamp unit. 3,692,996, 9-19-72,
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- Shaffer, John W.: to Sylvania Electric Products, Inc. Photoflash lamp
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- Shaffer, Roy E.: to United States of America, Army. Frangible glass
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- Shaffer, Walter M.: to Towmotor Corporation. Control for hydro-
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179-16.00e.
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Perkins, Carroll R.; Shaffstall, Everett L.; Yoder, Robert N.; and
Gundersen, James L., 3,659,286.
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field effect transistor switch resistors. 3,646,587, 2-29-72, Cl. 340-
347.
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Garnish, Artur Maximovich; Shafransky, Lev Moiseevich; and
Ischerikova, Galina Antonovna, 3,679,603.
- Shafer Concrete Pipe Co.: *See*—
Ogle, Robert K., 3,668,879.
- Shagabutdinov, Ramil Iskandarovich: *See*—
Morotsky, Nikolai Stepanovich; Emelianenko, Natalia Lvovna;
and Shagabutdinov, Ramil Iskandarovich, 3,684,743.
- Shagurin, Anatoly Alexeevich: *See*—
Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinoku-
rov, Vasily Ivanovich; Trofimov, Mikhail Georgievich;
Kostechko, Roza Fedorovna; Pyanov, Valentin Nikiforovich;
Golovkin, Jury Ivanovich; Abakumov, Vladimir Borisovich;
Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich;
Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Ser-
geevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.
- Shah, Ashok C.: *See*—
Stapfer, Christian H.; and Shah, Ashok C., 3,654,222.
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Whisler, Howard E.; Shah, Bhupendra Umedchand; Jeskey,
Gerald Vernon; and Bloom, Ray Albert, 3,703,924.
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Lynch, Thomas; and Shah, Dineshchandra S., 3,655,033.
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method of forming. 3,655,349, 4-11-72, Cl. 29-196.4.
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Radiation measurement system with MOSFET electrometer circuit
which is protected against voltage transients. 3,654,468, 4-4-72,
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- Shah, Gautham C.: to Burroughs Corporation. Web tensioning
device. 3,647,128, 3-7-72, Cl. 226-195.
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Worden; and O'Connor, Michael Niall Desmond, 3,634,944.
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containing polytetrafluoroethylene. 3,679,614, 7-25-72, Cl. 260-
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1,3,5(10)-triene-steroids and process thereof. 3,689,512, 9-5-72,
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Removal of sulfur dioxide from gas streams. 3,653,823, 4-4-72, Cl.
23-129.
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Cl. 23-129.
- Shah, Indravadan S.: to Chemical Construction Corporation. Ther-
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Nguyen, Van-Tran; and Shah, Jagdeep Chandravadan,
3,679,994.
- Shah, Rasik P.: *See*—
Ringwall, Carl G.; and Shah, Rasik P., 3,672,388.
- Shaham, Ilan: *See*—
Waterman, Jacques Abraham; Shaham, Ilan; and Shorr, Leonard
M., 3,674,756.
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Chandra, to University of Nebraska, The. Antibiotic acidophiles
and process of preparing the same. 3,689,640, 9-5-72, Cl. 424-
118.000.
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assembly for open top containers. 3,664,539, 5-23-72, Cl. 220-
24.000.
- Shaheen, Donald G.: *See*—
Fein, Marvin; Loprest, Frank; and Shaheen, Donald G.,
3,698,969.
- Shaheen, Eugene G.: *See*—
Larson, Leland B.; and Clement, Clyde H., 3,670,959.
- Shaheen, John.: Remote vehicle starting system. 3,675,032, 7-4-72,
Cl. 290-38.00c.
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Rockwell Corporation. Interstitial conductors between plated
memory wires. 3,641,520, 2-8-72, Cl. 340-174.
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Rockwell Corporation. Process for forming interstitial conductors
between plated memory wires. 3,657,807, 4-25-72, Cl. 29-
604.000.
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Rockwell Corporation. Interstitial conductors between plated
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Rockwell Corporation. Method of making interstitial conductors
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Corporation. Method of providing interstitial conductors between
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- Shaines, Alfred; Kalish, Robert L.; and Hamer, Edward A. G., to Abcor Water Management Company, Inc., mesne. Support for semi-permeable membrane. 3,695,964, 10-3-72, Cl. 156-161.000.
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- Shair of Canada Limited: See—
Gray, Dan E., 3,677,359.
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Salutsky, Murrell L.; and Shair, Salem, 3,690,860.
- Shakesby, Leonard, to Esso Research and Engineering Company. Coupling for plastic pipe. 3,640,551, 2-8-72, Cl. 285-39.
- Shakespeare Company: See—
Hardesty, Benjamin T., 3,659,855.
- Shakespeare of Arkansas, Inc.: See—
Sarah, Thomas F., 3,675,502.
- Shakespeare, William B. J., to TRW Inc. Lightweight composite reflector dish. 3,694,059, 9-26-72, Cl. 350-310.000.
- Shakhmaliev, Rustam Makhmud Ogly: See—
Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Kamalov, Gennady Nikolaevich; Sarkisov, Rafael Tevosovich; Stepanian, Ernst Arakelovich; and Shakhmaliev, Rustam Makhmud Ogly, 3,656,381.
- Shakhov, Vasily Ivanovich: See—
Shepelyakovskiy, Konstantin Zakharovich; Ushakov, Boris Konstantinovich; Devyatkin, Vasily Petrovich; Devyatkov, Vladimir Fedorovich; Shakhov, Vasily Ivanovich; Kachkanov, Nikolai Nikolaevich; Gazarov, Leon Alexandrovich; Pchelkina, Valentina Mikhailovna; Drbnov, Mikhail Alexandrovich; and Vologdin, Vladislav Valentinovich, 3,682,519.
- Shakhova, Alexandra Filipovna: See—
Mitkova, Eduard Mikhailovich; Korobanov, Vladimir Nikolaevich; Babkina, Vera Jurievna; Shakhova, Alexandra Filipovna; Mefodiev, Vladimir Nikolaevich; and Gaidash, Nikolai Ivanovich, 3,682,602.
- Shakiba, Hosein M. Flash vapor burner. 3,647,347, 3-7-72, Cl. 431-37.
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- Shalders, Alan John, to A.C.E. Machinery Limited. Cage gate lock mechanisms. 3,659,677, 5-2-72, Cl. 187-61.
- Shaler, Amos J.; and Clancy, William E., to Stackpole Carbon Company. Apparatus for removing oil floating on water. 3,659,715, 5-2-72, Cl. 210-242.
- Shaler, David; and Varrichio, Ralph A., to EG & G, Inc., mesne. Electrostatic recording paper toner section. 3,664,299, 5-23-72, Cl. 118-637.000.
- Shalit, Harold: See—
Rieve, Robert W.; and Shalit, Harold, 3,635,814.
- Rieve, Robert W.; and Shalit, Harold, 3,660,267.
- Rosenthal, Rudolph; Bonetti, Giovanni A.; and Shalit, Harold, 3,663,642.
- Shalley, Henry M., to Glazo Laboratories Limited. Dextrinization of starch with X-amylase from bacillus coagulans. 3,697,378, 10-10-72, Cl. 195-31.00r.
- Shaltis, Robert J.: See—
Alexander, Willis; and Shaltis, Robert J., 3,645,402.
- Shaltis, Robert J., to Hastings Manufacturing Company. Oil Filter with improved anti-drainback valve. 3,695,437, 10-3-72, Cl. 210-136.000.
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Vagin, Alexei Alexeevich; Shalygin, Veniamin Nikolaevich; Shiborin, Viktor Ivanovich; Murakhver, Vladimir Ilich; and Sharov, Nikolai Grigorievich, 3,682,569.
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- Shamay, Menashe. Photographic film roll. 3,647,465, 3-7-72, Cl. 96-78.
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Ballentine, John W.; and Chaffin, Frank R., 3,698,257.
- Traub, Henry A., 3,663,024.
- Shambaugh, Howard G. Golfing aid. 3,679,206, 7-25-72, Cl. 273-32.00r.
- Shames, Harold: See—
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- Shames, Sidney J.: See—
Shames, Harold; Shames, Sidney J.; and Logan, John F., 3,637,143.
- Shames, Sidney J.; and Shames, Harold. Aerator construction. 3,635,405, 1-18-72, Cl. 239-428.5.
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- Shamoo, Adil E. Liquid scintillators. 3,676,360, 7-11-72, Cl. 252-301.20r.
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Tatiano, Nikolai Vasilievich; Tsybal, Alexandr Gavrilovich; Stetsenko, Vladimir Vasilievich; Isikov, Sergei Alexandrovich; Rodenko, Fedor Leontievich; Betcher, Alexandr Samuilovich; Shamrai, Petr Dmitrievich; Dulya, Mikhail Afanasievich; Dudka, Viktor Vailievich; Klimchuk, Ivan Petrovich; and Dolgov, Anatoly Mikhailovich, 3,664,431.
- Shanahan, John L. Friction drive rotary engine. 3,650,632, 3-21-72, Cl. 415-90.
- Shanahan, William J.; Zopf, Vincent R.; and Loshin, Albert M., to Skiatron Electronics & Television Corporation. Communications secrecy system. 3,689,688, 9-5-72, Cl. 178-5.100.
- Shanbrom, Edward: See—
Fekete, Lajos F.; and Shanbrom, Edward, 3,682,881.
- Shandlay, John J. Inventory control system. 3,651,478, 3-21-72, Cl. 340-172.5.
- Shando, Joseph G.: See—
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Boassy, Emil J.; and Shanni, Vincent, 3,673,751.
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Niemann, George W.; and Shannon, Charles N., 3,676,780.
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Funk, Charles F., 3,633,866.
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Massover, Hyman A., 3,686,660.
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Popper, Thomas L.; Herzog, Hershel L.; and Shapiro, Elliot L., 3,707,487.
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Gore, William C.; and Shapiro, Eugene B., 3,696,639.
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Elperin, Bill; Shapiro, Harris J.; and Soloway, Harold, 3,651,134.
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Bradshaw, Robert S.; Golden, Donald M.; and Shapiro, Marvin, 3,648,839.
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McKee, Clyde M.; Provenzano, Andrew V.; and Scott, Ward, 3,640,608.
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McKee, Clyde M.; Provenzano, Andrew V.; and Scott, Ward, 3,640,609.
- Shapiro, Scott N.: See—
Shapiro, Scott N.; and Wilkin, William G. (said Wilkin assor. to said), 3,638,997.
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Andrzejak, Sigmund L.; Orchoski, Michael A.; and Shapland, James T., 3,684,267.
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Scherban, Alexandr Nazarievich; Furman, Neonil Izrailevich; Sotnichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Jury Ivanovich; Sutormin, Jury Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chaschinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna, 3,678,489.
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- Shariff, Sadig A.: See—
- Wilson, John R.; and Shariff, Sadig A., 3,676,749.
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- Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Idelevich; Zhabin, Yuri Alekseevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhekhin, Vladimir Petrovich; Rubnikov, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trisko, Ussyaslav Iosifovich; Sharipova, Raviya Davlyatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorievich, 3,654,325.
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- Hudson, Sharon J., Jr., 3,643,687.
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- Vagin, Alexei Alekseevich; Shalygin, Veniamin Nikolaevich; Shaborin, Viktor Ivanovich; Murakhver, Vladimir Ilich; and Sharov, Nikolai Grigorievich, 3,682,569.
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- Baldwin, Wiley M.; Fuchs, Edward O.; and Sharp, Donald J., 3,697,255.
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- Nakamura, Tutomu; Matsuda, Saburo; and Ito, Yoichi, 3,655,988.
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- Freeman, Peter Frank Hilary; Markey, Roger Franklin Joseph; Peacock, Frederick Charles; and Sharpe, Stuart Peter, 3,657,247.
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- Bond, Milton F.; and Shatford, John F., 3,694,807.
- Shatila, Mounir Ahmad: See—
- Beck, Roderick Gerald; Parks, Lyle Homer; and Shatila, Mounir Ahmad, 3,634,105.
- Shattalene Limited: See—
- Tugwell, Lewen B. O., 3,639,549.
- Shatterproof Glass Corporation: See—
- Chase, William B.; Jendrisak, Joseph E.; and Kelvey, Harold E., 3,692,015.
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- Champ, Robert Bruce; and Shattuck, Meredith David, 3,634,079.
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- Geering, Emil J.; Shatz, Malcolm H.; and Leon, Edward, 3,684,587.
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- Bennett, Sydney, 3,654,760.
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- Feinleib, Julius; and Shaw, Robert F., 3,696,344.
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- Shaw, Donald George, 3,633,702.
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- Harty, M Fillmore, 3,637,256.
- Rieckmann, Robert, 3,683,826.
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- Suzuki, Munehiko; Hosokawa, Etsuo; Waki, Misao; and Fukushima, Masatada., 3,666,709.
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- Shea, Evan P.: *See—*
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- Tarbell, Harlan E.; Mogg, Donald W.; and Shea, Frederick L., 3,644,240.
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- Sheahan, Desmond F.: *See—*
- Orchard, Henry J.; and Sheahan, Desmond F., 3,676,806.
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- Krauth, Charles A.; Shealy, Yoder Fulmer; and O'Dell, Clinton Allen, 3,649,613.
- Krauth, Charles A.; Shealy, Yoder Fulmer; and O'Dell, Clinton Allen, 3,654,257.
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- Everett, Samuel R.; Shear, Wayne G.; and Ardila, Jorge E., 3,636,336.
- Shearer, Bruce. Musical rolling hoop. 3,676,951, 7-18-72, Cl. 46-114,000.
- Shearer, George: *See—*
- Mc Culler, James F., 3,697,639.
- Shearer, Jack F., to Hubbell, Harvey, Incorporated, mesne. Disposable reflectors for lighting fixtures. 3,679,892, 7-25-72, Cl. 240-103,000.
- Shearin, Edwin A.: *See—*
- Geohegan, Kenneth P., Jr.; and Shearin, Edwin A., 3,634,625.
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- Sheedy, Patrick T.: *See—*
- Dempsey, George A., Jr.; Koenig, Martin F.; and Issa, Manuel, 3,639,676.
- Sheedy, Richard E., to Fiberglass Resources Corporation. Insulated heat packs. 3,663,335, 5-16-72, Cl. 156-380,000.
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- Roe, George Ryburn; Sheehan, Gerard Martin; and Knapp, Donald Edward, 3,649,323.
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- Sheehan, Neil J.: *See—*
- Braun, Richard E.; Hopkins, Lionel G.; Sheehan, Neil J.; and Sanchez, Edward J., 3,678,576.
- Sheehan, Robert F., to National Blank Book Company, Inc. Tilting rack for binder files. 3,686,780, 8-29-72, Cl. 40-104,140.
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- Levine, Nathan B.; Green, Joseph; and Sheehan, William R., 3,649,609.
- Sheel, Harold R., to Badger Company, Inc., The. Fluid bed reactors. 3,639,103, 2-1-72, Cl. 23-288.
- Sheena, David: *See—*
- Chabot, Ronald W.; Leonard, George S.; and Sheena, David, 3,699,856.
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- Hall, George Ernest Herbert, 3,641,882.
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- Sheer, Charles; and Korman, Samuel, 3,644,781.
- Sheer, Charles; and Korman, Samuel, 3,644,782.
- Sheers, Edward Helmut: *See—*
- Arlt, Herbert George, Jr.; and Sheers, Edward Helmut, 3,649,580.
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- Sheets, Edward G.: *See—*
- Carlson, Ernest C.; Howells, Arthur J., Jr.; Jennings, Marvin D.; Eastman, Donald R.; and Sheets, Edward G., 3,698,580.
- Sheets, Harry L.; and Booth, Robert W. Football blocking and tackling sled. 3,674,265, 7-4-72, Cl. 273-55,000.
- Sheets, Herbert D., Jr.: *See—*
- Lankard, David R.; and Sheets, Herbert D., Jr., 3,640,737.
- Sheets, Ronald E., to Tamarack Scientific Company, Inc. Jet pinched plasma arc lamp and method of forming plasma arc. 3,686,528, 8-22-72, Cl. 315-111,000.
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- Sheetz, Charles E., to FMC Corporation. Bin filling apparatus. 3,656,272, 4-18-72, Cl. 53-35.
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- Saunders, Frank L.; and Sheetz, David P., 3,673,142.
- Wang, Chun-Shan; and Sheetz, David P., 3,660,353.
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- Longsderff, Richard W.; and Sheetz, Robert Shirk, 3,702,408.
- Sheffer, Ralph L., Jr., to Omark-Winslow Aerospace Tool Co. Machine for riveting nutplates to support structures. 3,646,660, 3-7-72, Cl. 29-243.53.
- Sheffield, Bascom C.: *See—*
- Murphey, Carey E., Jr.; and Sheffield, Bascom C., 3,641,678.
- Sheffield, Henry F., to Summit Research Laboratories, Inc. Complexes containing aluminum chlorhydroxide. 3,634,480, 1-11-72, Cl. 260-429.9.
- Sheffield, Jackson George: *See—*
- Sturgeon, George Mc Hardy; and Sheffield, Jackson George, 3,674,390.
- Sheffield, Raymond A., to Anti-Pollution Incinerators. Hollow grate incinerator. 3,688,709, 9-5-72, Cl. 110-8,000.
- Sheller, Sydney, to United States of America, Navy. Chemiluminescent spray formulation. 3,697,434, 10-10-72, Cl. 252-188,300.
- Shesiek, Paul K.: *See—*
- Speidel, Thomas O. P.; Trotter, Edward E.; and Shesiek, Paul K., 3,663,798.
- United States of America, National Aeronautics and Space Administration, 3,702,762.
- Sheldlower, Stanley S.; and Glanz, Elliot S. Entomological observation device. 3,653,357, 4-4-72, Cl. 119-1.
- Sheikovsky, Dmitry Alexeevich: *See—*
- Pentegov, Igor Vladimirovich; Semergeev, Stepan Ivanovich; Sheikovsky, Dmitry Alexeevich; Mescheryak, Sergei Nikolaevich; Stenkovsky, Evgeny Petrovich; Litvin, Leonid Vladimirovich; and Shelest, Nikolai Antonovich, 3,663,909.
- Shelke, Jacob; and Ray, George H., Jr., to Spencer-Kennedy Laboratories, Inc. Multi-carrier transmission system. 3,639,840, 2-1-72, Cl. 325-308.
- Shekherev, Dmitry Nikolaevich: *See—*
- Demidov, Vladimir Vasilievich; Goldstein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov, Nikolai Nikolaevich; Purnalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Deretsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev, Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and rits, Leonid Borisovich, 3,683,683.
- Shekhodanov, Mikhail Petrovich: *See—*
- Lutchenkov, Anatoly Matveevich; Shekhodanov, Mikhail Petrovich; Siyanov, Sergei Alexandrovich; Korovin, Ivan Stepanovich; Kholstova, Nonna Alexandrovna; Kreptseva, Valentina Nikolaevna; and Leskovskaya, Nina Petrovna, 3,671,125.
- Shelander, Charles P., to Preload Company, Inc. Storage tank. 3,638,431, 2-1-72, Cl. 61-5.
- Shelburg, William D.: *See—*
- Schuetz, James E.; and Shelburg, William D., 3,642,743.
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- Shelby, Richard K., to Monsanto Company. Shielding apparatus for plastic articles. 3,682,135, 8-8-72, Cl. 118-503,000.
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- Sheldon, Donald E., to United Aircraft Corporation. Combustion chamber support. 3,670,497, 6-20-72, Cl. 60-39,320.
- Sheldon, E. H., and Company: *See—*
- Berry, Hammond A., 3,685,851.
- Black, Colon C., 3,639,028.
- Sheldon, Edward Emanuel. Opto-electric screens provided with light conducting members. 3,636,366, 1-18-72, Cl. 250-227.
- Sheldon, Edward Emanuel. Devices of fiberoptic and vacuum tube construction. 3,676,671, 7-11-72, Cl. 250-71,000.
- Sheldon, Edward J.: *See—*
- Hatcher, Burrell R.; Miccioli, Aldo R.; Mohr, Max C.; and Sheldon, Edward J., 3,706,998.
- Sheldon, Gary S., to General Electric Company. Semiconductor passivating process. 3,642,597, 2-15-72, Cl. 204-181.
- Sheldon, Gary S. Semiconductor passivating process and product. 3,644,801, 2-22-72, Cl. 317-235.
- Sheldon, Marvin. Folding table. 3,683,825, 8-15-72, Cl. 108-33,000.
- Sheldon, Richard, to Litvak Meat Company Inc. Method for preparing beef feet products. 3,676,153, 7-11-72, Cl. 99-107,000.

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Sheldon's, Inc.: See—
Sheldon, A. L., 3,690,450.
Sheldrake, Leonard J.: See—
Huntzinger, Gerald O.; and Sheldrake, Leonard J., 3,671,843.
Sheldrake, Leonard J., to General Motors Corporation. Control circuit for automatically shutting off the windshield wipers subsequent to washer operation. 3,691,442, 9-12-72, Cl. 318-443.000.
Shelest, Nikolai Antonovich: See—
Pentegov, Igor Vladimirovich; Semergeev, Stepan Ivanovich; Sheikovskiy, Dmitry Alexeevich; Mescheryak, Sergei Nikolaevich; Stenkovskiy, Evgeny Petrovich; Litvin, Leonid Vladimirovich; and Shelest, Nikolai Antonovich, 3,663,909.
Shelffo, Loren E.: See—
Baltazzi, Evan S.; Shelffo, Loren E.; and Moduthagam, Michael, 3,646,866.
Shell, Francis J.; and Zetmeir, Norris D., to Phillips Petroleum Company. Refining crude amorphous polyolefins. 3,661,884, 5-9-72, Cl. 260-93.7.
Shell, Irving W. Locking shelf bracket support structure. 3,697,034, 10-10-72, Cl. 248-243.000.
Shell Oil Company: See—
Alkema, Henk J.; Medema, Dirk; and Wattimena, Freddy, 3,634,539.
Allimon, Willard F., 3,667,544.
Anderson, Victor F., 3,639,001.
Anderson, Victor F., 3,658,382.
Anderson, Victor F., 3,698,150.
Anderson, William S., 3,632,800.
Anderson, William S., 3,644,301.
Anderson, William S., 3,668,125.
Arabian, Karekin G.; and Leary, Arvid K., 3,654,207.
Ayers, Ray R.; Titus, Paul E.; and Hanson, James R., 3,664,504.
Ayers, Ray R., 3,684,095.
Babcock, Lyndon R., Jr.; and Walker, Dale A., 3,676,527.
Badrian, Willy H. J., 3,705,835.
Bagge, Leonard P., 3,644,076.
Bagge, Leonard P.; and Kear, Robert W., 3,663,153.
Bakker, Johannes M. B., 3,634,683.
Barker, Michael D.; and Kirby, Peter, 3,666,768.
Bauer, Robert F.; McNeill, Robert C.; and Ledbetter, Jerry T., 3,682,243.
Bauer, Ronald; Chung, Harold; Cannell, Lawrence George; Keim, Wilhelm; and Van Zwet, Henry, 3,637,636.
Bauer, Ronald; Chung, Harold; Keim, Wilhelm; and Van Zwet, Henry, 3,661,803.
Bauer, Ronald; Chung, Harold; Barnett, Kenneth W.; Glockner, Peter W.; and Keim, Wilhelm, 3,686,159.
Bauer, Ronald S.; Chung, Harold; Glockner, Peter W.; Keim, Wilhelm; and Van Zwet, Henry, 3,635,937.
Bauer, Ronald S.; Chung, Harold; Glockner, Peter W.; Keim, Wilhelm; and Van Zwet, Henry, 3,644,563.
Bauer, Ronald S.; Glockner, Peter W.; Keim, Wilhelm; and Mason, Ronald F., 3,647,915.
Bean, Arthur R., Jr.; Papavasiliou, Mary J.; and Snyder, John L., 3,651,025.
Beard, Thomas N., 3,666,014.
Bell, Charles S.; and Wulff, Harald P., 3,702,855.
Bell, Howard F.; and Scheineman, John A., 3,677,292.
Berry, Thomas E., 3,654,185.
Bezemer, Cornelis; Tadema, Harco J.; and Houbolt, Jacob J.H.C., 3,700,593.
Bickham, Kenneth L., 3,634,256.
Bishop, Eugene T.; Haeefe, Walter R.; and Hendricks, Willis R., 3,639,163.
Bittner, Clarence W., 3,694,345.
Blytas, George C., 3,656,886.
Blytas, George C., 3,658,512.
Blytas, George C., 3,703,573.
Bowers, Richard Charles, 3,633,091.
Bowman, Ronald W.; and Hall, Alvin Lee, 3,682,244.
Breithaupt, John T.; and Garcia, Raymond T., 3,692,111.
Brink, Robert E., 3,657,570.
Brook, James H. T.; and Williams, Joyce, 3,679,585.
Brunner, Guido, 3,706,142.
Buls, Vernon W.; and Grimsby, F. Norman, 3,647,639.
Burnside, Floyd D., 3,650,327.
Campen, Jan P.; and Kok, Riekert, 3,700,767.
Cannell, Lawrence G., 3,692,854.
Carswell, William D., 3,663,436.
Carter, Melvin K., 3,634,348.
Chapman, Ronald W., 3,696,865.
Chase, Curtis A., Jr.; and Prats, Michael, 3,690,167.
Christensen, Alton O., 3,638,046.
Christensen, Alton O., 3,643,114.
Christensen, Alton O.; and Brink, Robert E., 3,657,574.
Christensen, Alton O., 3,686,644.
Christensen, Alton O., 3,691,402.

Chung, Harold; and Keim, Wilhelm, 3,636,162.
Closmann, Philip Joseph, 3,682,246.
Coffman, Paul M.; and Johnson, Herbert G., 3,684,258.
Colby, Thomas H., 3,696,176.
Coles, Roy D.; and Richardson, Edwin A., 3,669,188.
Collins, Michael H., 3,661,542.
Coyle, James, 3,699,175.
Creaser, Leonard F., 3,682,824.
Czerski, Jan, 3,698,849.
Darley, Henry C. H., 3,640,343.
Darley, Henry C. H.; and Jackson, Jack M., 3,689,410.
De Geeter, Pieter J., 3,659,425.
De Grob, Johannes H.; Scheffer, Hendrik J.; and Smit, Willem H., 3,647,192.
De La Mare, Harold E.; and Shaw, Alfred W., 3,670,054.
De Vries, Douwe, 3,685,580.
deCarpentier, Pieter, 3,644,308.
Desgurse, Paul J. A.; and Rogaar, Harm P., 3,669,940.
Dewhurst, Kenneth C., 3,639,439.
Dewhurst, Kenneth C.; Keim, Wilhelm; and Thyret, Helmut E., 3,652,614.
Dilgren, Richard E.; and Drinkard, Gary, 3,695,354.
Donninger, Cyril; and Schofield, John A., 3,636,037.
Donninger, Cyril; Davies, John H.; and Davis, Royston H., 3,639,620.
Donninger, Cyril; Schofield, John A.; and Hawes, John E., 3,701,779.
Dowd, Robert T.; and Clark, Thomas D., 3,634,542.
Dun, Peter W.; and Van Hemert, Formijn J., 3,663,422.
Dun, Peter W.; and Van Weeren, Pieter A., 3,682,813.
Dunlop, Arthur K., 3,634,232.
Eckert, Rudolf J. A.; and Wortel, Johannes M., 3,642,633.
Eggersen, Frank T.; Seibert, Elmer E.; and Stross, Fred H., 3,661,527.
Engel, Robert F., 3,704,567.
Evans, Charles C.; and Sommer, Harry J., 3,664,856.
Farley, Francis F., 3,647,906.
Farmer, Robert F., III; and Lawson, Jimmie B., 3,675,716.
Feenstra, Robijn, 3,640,356.
Finch, Albert M. T., Jr., 3,700,637.
Fraser, John P.; and Hartman, David E., 3,676,091.
Gaertner, George W., 3,699,194.
Garbett, Charles Richard, 3,634,225.
Gatti, Anthony R., 3,686,137.
Gautier, Pieter A.; and Verbrugge, Herman, 3,642,716.
Gersmann, Hans A.; Oosterhof, Hendricus A.; and Strang, Aart, 3,663,596.
Gibbs, Sam G., 3,635,081.
Glockner, Peter W.; Keim, Wilhelm; and Mason, Ronald F., 3,647,914.
Goolsby, Alvin D., 3,659,943.
Grimes, Donald W.; and Michael, Wayne P., 3,632,004.
Grimm, Werner; Hasserodt, Ulrich; and Olschewski, Karl-Heinz, 3,679,086.
Grimm, Werner; Olschewski, Karl H.; and Sack, Rolf E., 3,706,520.
Grinstein, Reuben H., 3,646,227.
Groothuis, Hendrik; and Van de Vusse, Jan G., 3,643,453.
Haar, Leonard W., 3,662,717.
Haase, Richard J.; and Roeber, William L., 3,701,088.
Hamby, Tyler W., Jr.; and Strickland, William T., Jr., 3,646,999.
Hardesty, Donald E.; and Rodgers, Thomas A., 3,677,932.
Hassell, Howard L., 3,644,588.
Haycock, Ernest W., 3,674,662.
Haycock, Ernest W.; and Prober, Richard, 3,703,446.
Haynes, Peter, 3,699,079.
Hayter, Roy G.; and Bishop, Eugene T., 3,639,523.
Hemwall, Robert W., 3,656,881.
Hendal, Willem P.; and Prew, Lionel R., 3,659,817.
Henle, Walter K.; and Smutny, Edgar J., 3,666,416.
Hill, Harold J., 3,638,728.
Holler, Howard V., 3,701,762.
Hoory, Sadok E.; and Newman, Stanley F., 3,632,482.
Hop, Adrianus G., 3,640,134.
Horne, Charles A., Jr., 3,657,451.
Hull, Colin G., 3,699,144.
Hull, Colin G.; and Boor, John, Jr., 3,706,713.
Jenkins, John W., 3,666,824.
Johnson, Herbert G., 3,642,415.
Kenzie, Nozaki, 3,694,412.
Kiovisky, Thomas E.; and Petzny, Wilfried J., 3,657,108.
Kiovisky, Thomas E.; and Wald, Milton M., 3,663,452.
Kiovisky, Thomas E.; and Wald, Milton M., 3,668,109.
Kiovisky, Thomas E.; and Petzny, Wilfried J., 3,685,962.
Kirby, Peter, 3,637,724.
Kodama, Jiro K.; Haynes, George R.; and Albert, James R., 3,658,993.
Kravetz, Louis; and Ferrante, Gerald R., 3,682,583.
Krikorian, Robert R., 3,694,407.
Kruka, Vitold R.; and Meier, Dale J., 3,687,148.

Kubasta, James W., 3,659,877.
Kubasta, James W., 3,666,395.
Kuhre, Calvin J.; and Segerstrom, Clifford C., 3,663,478.
Kuo, Chiang-Hai; Nordgren, Ronald P.; and Vogiatzis, John P., 3,636,762.
Kwantes, Arien; and Stouthamer, Bernhard, 3,634,495.
Kwantes, Arien; and Stouthamer, Bernhard, 3,671,559.
La Heij, Gerardus E.; and Amerongen, Gerrit J. Van, 3,632,549.
La Heij, Gerardus E.; and Van Amerongen, Gerrit J., 3,642,762.
La Heij, Gerardus E.; and Van Amerongen, Gerrit J., 3,700,757.
Lamb, Thomas W.; Lee, Robert E.; Montgomery, William C., Jr.; Orr, William R.; and Vogel, Charles B., 3,651,450.
Langner, Carl G.; and Visser, Robert C., 3,699,691.
Lauck, John D., 3,684,783.
Levinson, Gerald S., 3,673,112.
Lewis, Donald R., 3,678,273.
Lichtman, Irwin A.; Johnson, Milton R.; Sekula, Leo F.; and Dorn, Robert W., 3,639,616.
Lilley, G. C.; and Kolb, Robert Herrick, 3,678,257.
Loeffler, Donald E., 3,689,413.
Lopez, John A., 3,706,684.
Lovelock, James E.; Davies, Albert J.; and Ferris, Frank R., 3,634,754.
Luijk, Pieter; Van Gelderen, Evert; and Schipper, Gervinus P., 3,644,248.
MacPhail, Alexander C. B.; Lauck, John E.; and Wendler, Kenneth T., 3,634,239.
Macphail, Alexander C. B.; and Keddie, Ian, 3,642,630.
Magoon, Eugene F., 3,697,611.
Maichen, Karl, 3,659,469.
Martin, Godfrey Q., 3,677,528.
Mason, Ronald F., 3,676,523.
Mason, Ronald F., 3,686,351.
May, Clayton A., 3,637,618.
Mayne, Neil R.; and Van Olmen, Johan, 3,681,267.
McClure, James D.; and Slaugh, Lynn H., 3,646,116.
McLamore, Roy T., 3,637,020.
McMeekin, Samuel; and Dekker, Jan, 3,658,221.
Medema, Dirk; Brunmayer-Schilt, Willy; and Van Helden, Robert, 3,647,908.
Medema, Dirk; Alkema, Henk J.; and Van Helden, Robert, 3,649,709.
Miller, James R., 3,657,133.
Mills, Walter D., 3,669,627.
Montagne, Johannes Th. W.; and Dunn, Christopher L., 3,642,988.
Montagne, Johannes Th. W.; and Van Tongeren, Willem A., 3,663,707.
Montgomery, William C., Jr.; and Vogel, Charles B., 3,699,325.
Montgomery, William C., Jr.; and Vogel, Charles B., 3,700,871.
Moore, Howard D.; Padmore, Ernest L.; and Whittle, John, 3,663,437.
Morales, Juan G., 3,632,692.
Morris, Dennis E., 3,636,528.
Morris, Rupert C.; and Mason, Ronald F., 3,673,231.
Moseley, John C.; Schaffer, Rupert E.; and Radziwill, Anthony N., 3,647,527.
Murphey, Carey E., Jr.; and Sheffield, Bascom C., 3,641,678.
Murphey, Carey E., Jr.; Simon, Theodore Andrew; and Torrest, Robert Steven, 3,692,114.
Murphey, Carey E., Jr., 3,706,348.
Nakamaye, Kay L.; Slaugh, Lynn H.; Spooncer, William W.; and Volger, Hendrik C., 3,641,170.
Neal, William J., 3,640,080.
Neal, William J., 3,650,114.
Neal, William J.; Richardson, Jacob C.; and Vining, Thomas F., 3,658,149.
Neel, Emmanuel E. A.; Gaucher, Michel; and Clement Claude J., 3,684,695.
Newey, Herbert A.; and Holler, Howard V., 3,692,705.
Nielsen, Robert P., 3,702,259.
Nihof, Hendrikus J.; and Borsboom, Albertus C. H., 3,640,120.
Nozaki, Kenzie, 3,689,460.
Ongkiehong, Leo, 3,636,463.
Papadopoulos, Michael N.; and Ueber, Russell C., 3,700,280.
Parry, Harvey L.; and Landua, Alton J., 3,635,843.
Payne, George B., 3,644,487.
Pearson, David L.; and Fehring, Bernard G., 3,632,694.
Petersen, William H., 3,695,350.
Pilgram, Kurt H.; and Skiles, Richard D., 3,658,830.
Pilgram, Kurt H. G., 3,657,355.
Pilgram, Kurt H. G., 3,692,805.
Poel, Dirk E.; Medema, Dirk; Van Helden, Robert; Ferkes, Nanno; Bergmann, Elliot; and Wood, Jack, 3,658,953.
Pollock, Floyd M., Jr.; and Neal, William J., 3,656,552.
Prats, Michael, 3,707,189.
Quick, Carolyn M., 3,646,211.
Quist, Bernardus B.; and Smit, Jacobus A. J., 3,643,929.
Reisberg, Joseph, 3,653,440.
Reman, Gerrit H.; and Verkoren, Henri, 3,672,853.
Richardson, Edwin A.; and Ueber, Russell C., 3,672,449.

Richardson, Edwin A., 3,685,582.
Richardson, Edwin A.; and Barnes, Herbert W., 3,701,383.
Robinson, John K.; and Voge, Hervey H., 3,700,749.
Robinson, Joseph D.; Loren, Jay D.; and Higdon, William T., 3,657,730.
Roza, Abraham Gerrit Alexander, 3,673,077.
Rutten, Hendrikus S.; Kruisman, Gerard; de Groot, Johan; Westra, Simon; and Bavelaar, Abraham P., 3,651,525.
Sanderson, John L.; and Swift, Edward W., 3,699,171.
Saucier, Randolph J., 3,670,817.
Schlobohm, Roland T., 3,660,290.
Schmenezfeier, Otto K., 3,678,803.
Schutt, Hans U., 3,673,108.
Schwencke, Herman F., 3,649,402.
Sequeira, Robert M., 3,686,365.
Seymour, Errol V.; Davison, Sol; and Haeefe, Walter R., 3,682,187.
Shaw, Alfred W.; and Bishop, Eugene T., 3,634,549.
Shaw, Alfred W., 3,694,521.
Simon, Theodore A., 3,653,254.
Simon, Theodore A., 3,685,133.
Simpson, Samuel W., 3,643,492.
Simpson, Samuel W., 3,667,280.
Simpson, Samuel W., 3,677,064.
Singleton, David M., 3,637,893.
Skinner, Jon R.; and Sanborn, Charles E., 3,658,928.
Skoroszewski, Wladyslaw H.; and Stones, Dennis S., 3,697,636.
Smid, Jacoba P. E.; van der Ven, Servaas; van der Vliet, Hendrik; and Van Acker, Eduard M. A. A. J., 3,632,552.
Smith, George; and Wortel, Johannes M., 3,682,823.
Smith, George; Sawyer, Webster M., Jr.; and Morris, Rupert C., 3,682,849.
Smith, Hubert Irvin, 3,638,730.
Smith, Joshua D.; and Clifton, Marior A., 3,663,438.
Smith, Noyes D., Jr., 3,673,557.
Smith, Noyes D., Jr., 3,680,041.
Smith, Terry K.; Chiu, Ying-Chech; and Lawson, Jimmie B., 3,707,193.
Snoek, Jacobus; and Naber, Jaap E., 3,692,480.
Soloway, Samuel B.; and Rosinger, Herbert P., 3,658,869.
Soloway, Samuel B.; and Morales, Juan G., 3,701,818.
Son, Jaime S., 3,702,619.
Spaargaren, Klaas; and Bijl, Aart, 3,665,172.
Spooncer, William W., 3,641,171.
Steveninck, Johannes Van, 3,695,049.
Stewart, Richard C.; and Creamer, Edward L., 3,674,469.
Strang, Aart, 3,704,315.
Stratenus, Jan L., 3,662,019.
Stuart, Charles A., 3,682,256.
Taylor, Glenn L.; Cotton, John W.; and Winkler, De Loss E., 3,699,184.
Thompson, Cullen R., 3,695,714.
Tieman, Charles H., 3,637,815.
Titus, Paul E.; and Hanson, James R., 3,688,909.
Titus, Paul E., 3,703,476.
Trainer, Richard P., 3,640,849.
Tuttle, Robert N., 3,653,441.
Van Daalen, Francois, 3,646,770.
van der Meij, Pieter H.; and Buitelaar, Arnold A., 3,679,644.
Van Der Zeeuw, Abraham J., 3,701,650.
Van Dijk, Jan, 3,696,862.
Van Eek, Wouter H.; Busking, Bob E.; and Van Gils, Adrianus W., 3,705,623.
Van Gogh, Johan; and De Kruij, Jan H., 3,642,739.
Van Klinken, Jakob; Kouwenhoven, Herman Wouter; and Van Weeren, Pieter Aldert, 3,697,444.
Van Kralingen, Peter H., 3,700,763.
Van Paassen, Cornelis W. C.; and Van Meurs, Hubrecht C. A., 3,644,201.
Van Scoy, Robert W., 3,658,462.
Van Steveninck, Johannes, 3,702,540.
Van Westrenen, William J., 3,658,738.
Van Westrenen, William J.; De Carpentier, Pieter; and Nieuwenhuis, Willem H. M., 3,669,942.
Van Westrenen, William J., 3,671,474.
Van Winkle, John L., 3,663,622.
Van Zwet, Henry; Bauer, Ronald S.; and Keim, Wilhelm, 3,644,564.
Veerling, Crenraad W. N.; and Grossen, Victor A., 3,693,665.
Verheul, Cornelis M.; and Sterling, Charles V., 3,706,534.
Vernon, Brian J.; and Skoroszewski, Wladyslaw H., 3,672,013.
Vincken, Leonardus M. J.; Agerbeek, Paul F.; and Hoekenga, Piet E., 3,681,928.
Visser, Pieter; and Ter Haar, Leonard W., 3,694,355.
Wagenaar, Adriaan H.; and van der Meij, Pieter H., 3,679,582.
Wahlstrom, Sven, 3,678,473.
Wahlstrom, Sven E., 3,699,537.
Waid, J. M., 3,696,867.
Wald, Milton M.; and Gaum Myron G. (said Wald assor. to), 3,700,633.

- Wald, Milton M.; and Quam, Myron G. (said Wald assor. to), 3,706,817.
- Wantland, Charles F.; Juge, Frank E., Jr.; and Hinds, William H., 3,679,577.
- Weller, Charles E., 3,689,873.
- Werzner, William F.; and Miller, James R., 3,673,091.
- Wesselingh, Johannes A., 3,691,230.
- Whitten, Derrill Gene; and Vanmeurs, Peter, 3,705,625.
- Wilson, Joseph G., 3,631,657.
- Wilson, William B., 3,702,312.
- Winkler, De Loss E., 3,700,748.
- Winkler, Deloss E., 3,686,366.
- Wise, Harold L., 3,685,345.
- Wise, Harold L.; Walters, Arley; and Cook, Ray G., 3,695,844.
- Wittenwyler, Clifford V., 3,705,872.
- Wulff, Harald; and Haynes, Peter, 3,642,833.
- Wulff, Harald P.; and Wattimena, Freddy, 3,634,464.
- Yates, John; and Devlin, Barry R. J., 3,634,509.
- Young, Charles W.; and Blankenhorn, Charles F., 3,645,336.
- Zuiderweg, Frederik J.; and Scheffer, Hendrik J., 3,661,773.
- Shell, William O. Building panel and wall. 3,693,304, 9-26-72, Cl. 52-204.000.
- Shellabarger, Donald Elston. Tire bead sealing and supporting means for retreading mold. 3,690,794, 9-12-72, Cl. 425-21.000.
- Shellenberger, Donald J., to Jones & Laughlin Steel Corporation. Closed end tuiere coil. 3,674,248, 7-4-72, Cl. 266-41.000.
- Sheller, Alan: *See—*
- Harris, David Neil; Hood, Geoffrey Markham; and Sheller, Alan, 3,682,857.
- Sheller-Globe Corporation: *See—*
- Carter, Rex D.; and Hoffsis, Earl W., 3,651,949.
- Carter, Rex D., 3,651,950.
- Palmai, Robert, 3,669,144.
- Shelley, George R. Combination hold-down finger and plate separator for self-leveling plate dispensers. 3,642,170, 2-15-72, Cl. 221-226.
- Shelley, George R. Plate separator for self-leveling plate dispensers. 3,664,546, 5-23-72, Cl. 221-279.
- Shelley Manufacturing Company: *See—*
- House, Bruce F., 3,640,427.
- House, Bruce F., 3,701,396.
- Shelley, Meville L., to Redifon Limited. Visual simulation apparatus. 3,694,938, 10-3-72, Cl. 35-12.00n.
- Shelley, Shelley W., to Shelley Systems, Inc. Modular building structure. 3,643,390, 2-22-72, Cl. 52-79.
- Shelley, Shelley W. Insulated reinforced building panel. 3,671,368, 6-20-72, Cl. 161-38.000.
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- Shelley, Steven Victor: *See—*
- Greaves, John Alfred; and Shelley, Steven Victor, 3,648,889.
- Shelley Systems, Inc.: *See—*
- Shelley, Shelley W., 3,643,390.
- Shelley, Shelley W., 3,676,536.
- Shellhaue, Ronald L., to General Motors Corporation. Hydraulic power brake booster. 3,691,903, 9-19-72, Cl. 91-49.000.
- Shellhaue, Ronald L., to General Motors Corporation. Vehicle brake control module and pedal lever mounting and hinge means therefor. 3,698,260, 10-17-72, Cl. 74-560.000.
- Shellhaue, Ronald L. Hydraulic power brake booster and open center control valve therefor. 3,699,680, 10-24-72, Cl. 60-54.60f.
- Shelman, Kenneth S., Sr. Table tennis paddle construction with improved handle means therefor. 3,674,268, 7-4-72, Cl. 273-76.000.
- Shelly, Ned R. Ditch building apparatus. 3,646,767, 3-7-72, Cl. 61-41.
- Shelly, William A.: *See—*
- Ruth, Richard L.; and Shelly, William A., 3,643,223.
- Shelor, Clifford D., to Westvaco Corporation. Pallet deck. 3,661,099, 5-9-72, Cl. 108-51.000.
- Shelor, Clifford D., to Westvaco Corporation. Decurling apparatus. 3,661,703, 5-9-72, Cl. 162-271.000.
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- Shelton, Clark R., to Filter Finder, Inc. Engine air filter replacement and size indicator. 3,658,421, 4-25-72, Cl. 356-72.
- Shelton, Damon C.; and Blankenship, Curtis E., to Ralston Purina Company. Animal ration. 3,635,723, 1-18-72, Cl. 99-2.
- Shelton, Douglas Sidney: *See—*
- Earle, Harold Westly; and Shelton, Douglas Sidney, 3,689,711.
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- Gilbertson, Warren L.; Shelton, Everett T., Jr.; and Southall, Hobert M., 3,703,865.
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- Seay, Orum E.; and Shelton, Robert O., 3,647,088.
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- Shepard, Joseph W.; and Shely, Benjamin L., 3,655,383.
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- Shemer, Raymond A.: *See—*
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- Shemitz, Sylvan R.; and Stahlheber, Benjamin L., 3,679,893.
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- Feiler, William A.; and Shen, Chung Yu, 3,687,992.
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- Jensen, Norman P.; Shen, Tsung-Ying; and Windholz, Thomas B., 3,655,901.
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- Shen, Yuan Shou: *See—*
- Krock, Richard H.; Shen, Yuan Shou; and Zdanuk, Edward J., 3,694,198.
- Zdanuk, Edward J.; Krock, Richard H.; and Shen, Yuan Shou, 3,694,197.
- Shen, Yuan-Shou: *See—*
- Griffiths, Leonard B.; and Shen, Yuan-Shou, 3,704,182.
- Shenderov, Lev Borukhovich: *See—*
- Khripkov, Alexandr Vasilievich; Shenderov, Lev Borukhovich; and Kazarinov, Igor Borisovich, 3,695,334.
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- Rosenthal, Rudolph; Sheng, Ming Nan; and Zajacek, John G., 3,639,486.
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- Dannels, Bobby F.; and Shepard, Alvin F., 3,644,533.
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- Shepard, George E.: *See—*
- Ruckle, Robert A.; and Shepard, George E., 3,650,034.
- Shepard, James N.: *See—*
- Gordon, Howard W.; and Shepard, James N., 3,698,613.
- Shepard, Joseph E.: *See—*
- Hickox, Thomas A.; May, Gordon H.; and Shepard, Joseph E., 3,641,931.
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- Knoblach, John C.; and Shepard, Ray M., 3,686,978.
- Shepard, Richard H.: *See—*
- Johns, Richard J.; Shepard, Richard H.; and Lindsay, Wardell J., 3,659,586.
- Shepard, Richard W.: *See—*
- Ashmead, Albert S.; and Shepard, Richard W., 3,647,057.
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- Shepeavy, Taras: *See—*
- Sahm, William H., III; and Shepeavy, Taras, 3,660,687.
- Shepyakovskiy, Konstantin Zakharovich: *See—*
- Kalner, Veniamin Davidovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Ryskind, Alexandr

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- Nikonov, Vladimir Filippovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Riskind, Alexander Moiseevich; Stepin, Anatoly Logonovich; Shepelyakovskiy, Konstantin Zakharovich; and Shklyarov, Isaak Nakhimovich, 3,684,854.
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- Shepelyakovskiy, Konstantin Zakharovich; Ushakov, Boris Konstantinovich; Devyatkin, Vasily Petrovich; Devyatkov, Vladimir Fedorovich; Shakhov, Vasily Ivanovich; Kachkanov, Nikolai Nikolaevich; Gazarov, Leon Alexandrovich; Pchelkina, Valentina Mikhailovna; Drbunov, Mikhail Alexandrovich; and Vologdin, Vladislav Valentinovich, to Moskovsky Vecherny Metallurgicheskiy Institut. Antifriction bearing. 3,682,519, 8-8-72, Cl. 8-212.000.
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Freeman, Peter Frank Hilary; Shephard, Margaret Claire; and Snell, Brian Kenneth, 3,670,077.
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Kennedy, Christopher John; Shepherd, Alexander Turnbull; and Thomas, Graham Isaac, 3,702,471.
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- Shepherd, Brian: See—
Clements, John Anthony; Goss, Alan Patrick; and Shepherd, Brian, 3,706,890.
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Greenwood, Robert; and Shepherd, John Michael, 3,685,272.
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Brendel, Gottfried J.; and Shepherd, Lawrence H., Jr., 3,692,847.
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- Shepherd Machinery Co.: See—
Shepherd, Willard W., 3,645,114.
- Shepherd, Reeves T.: See—
Yates, Lester R.; Dorsey, Charles M., Jr.; Howell, John B.; Conklin, Winfred S.; Sawicki, Joseph J.; Shepherd, Reeves T.; and Soares, Silvio, 3,641,434.
- Shepherd, Robert C.: See—
Lilioia, Gerald J.; May, Louis F., Jr.; Schiff, Norman; Mesek, Frederick K.; Shepherd, Robert C.; and Strickel, William R., 3,663,348.
- Shepherd, Robert D.: See—
Willis, Douglas A.; Habel, Ronald D.; and Shepherd, Robert D., 3,654,013.
- Shepherd, Robert Gordon: See—
Albright, Jay Donald; and Shepherd, Robert Gordon, 3,652,555.
- Shepherd, Robert Gordon: See—
Lewis, Benjamin Arthur; Sasser, Martin Leon; and Shepherd, Robert Gordon, 3,641,015.
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- Shepherd, Thomas H.: See—
de Long, Charles F.; and Shepherd, Thomas H., 3,669,691.
- Gould, Francis E.; and Shepherd, Thomas H., 3,641,237.
- Gould, Francis E.; and Shepherd, Thomas H., 3,660,071.
- Gould, Francis E.; and Shepherd, Thomas H., 3,660,563.
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- Shepherd, William H.: See—
Learn, Arthur J.; Shepherd, William H.; and Dellicia, Conrad J., 3,702,427.
- Shepler, Terry H.; and Lord, Donald S., to Ashland Oil, Inc. Synthetic emulsion-graft copolymers further reacted with protein. 3,651,210, 3-21-72, Cl. 424-78.
- Shepp, Allan: See—
Corben, Leo D.; Kammerer, William T.; and Shepp, Allan, 3,671,246.
- Sheppard, Albert M.: See—
Minkus, Herbert L., 3,693,351.
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Cairncross, Allan; and Sheppard, William Arthur, 3,700,693.
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Sherwood, John C., 3,685,223.
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Klug, Sigmund L.; Finkel, Gilbert; and Sherain, Monroe B., 3,669,674.
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Puyo, Andre Jean-Marie; and Habib, Pierre Andre, 3,659,464.
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Straccia, William J.; Gernert, Brooke E.; and Sherer, Ronald B., 3,696,936.
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Dixon, Rolland E.; and Sherk, Fred T., 3,704,334.
- Sherlock, Margaret H., to Schering Corporation. Glyceryl acetylsalicylate and its analgesic anti-inflammatory use. 3,644,424, 2-22-72, Cl. 260-340.9.
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Ludwig, David R.; and Sherman, David A., 3,656,072.
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Tittman, Jay; Nelligan, William B.; Wahl, John S.; and Sherman, Harold, 3,654,467.
- Sherman, Jack: See—
Silver, Wallace E.; and Sherman, Jack, 3,661,047.
- Sherman, James Webster; and Helmick, James William, to Johns-Manville Corporation. Duct system. 3,687,168, 8-29-72, Cl. 138-109.000.
- Sherman, Joseph. Cable terminal. 3,673,550, 6-27-72, Cl. 339-225.000.
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Richardson, James E.; and Sherman, Lawrence M., 3,651,927.
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Parson, Ronald F.; Sherman, Richard M.; and Webb, Robert M., 3,667,674.
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- Sherman, Roger M. Irrigation system. 3,680,787, 8-1-72, Cl. 239-177.000.
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- Sherman, Samuel S. Casting rod. 3,656,252, 4-18-72, Cl. 43-19.
- Sherman, Warren S.; Troth, Dennis L.; and Bennett, William A., to General Motors Corporation. Variable geometry torque converter. 3,646,755, 3-7-72, Cl. 60-54.
- Sherman, William P.: See—
Thompson, Bernard C., 3,697,111.
- Sherm, Daniel R.: See—
Benson, John F.; and Sherm, Daniel R., 3,684,332.
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Sherno, Stanley A., 3,688,457.
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- Sherr, Allan Ellis: See—
Gillham, Helen Currier; Sherr, Allan Ellis; and Klein, Harvey Gerald, 3,654,342.
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- Sherrick, Paul H.: See—
Trcka, Ronald; and Sherrick, Paul H., 3,672,838.
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Levine, David J.; and Sherrill, Bruce E., Jr., 3,647,497.
- Sherrill, Henry H., Jr., to Western Electric Company, Incorporated. Article mounting apparatus. 3,675,299, 7-11-72, Cl. 29-203.
- Sherrill, J. N., Jr.: *See—*
Wilson, John Hart, 3,636,905.
- Sherrill, Jimmie D.: *See—*
Roberts, Walter; Sherrill, Jimmie D.; Pusey, Brandon B.; and Wilkenloh, Frederic N., 3,643,007.
- Sherrill, John F. Fluid pressure vehicle jack. 3,664,636, 5-23-72, Cl. 254-93.0hp.
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- Sherritt Gordon Mines Limited: *See—*
Evans, David J. I.; and Weir, Donald Robert, 3,674,465.
Kunda, Wasyl; and Campbell, Finlay, 3,694,185.
Lavender, William James, 3,658,309.
Lavender, William James, 3,684,316.
MacLellan, James A.; and Wilson, John E., 3,685,654.
Mehl, Ernest; Kohut, Michael; and Kawulka, Paul, 3,666,437.
Norris, Leon F., 3,695,868.
Weir, Donald Robert; and Waliullah, Safdar, 3,658,508.
- Sherry, Howard S.; and Schwartz, Albert B., to Mobil Oil Corporation. Low temperature-high temperature two stage ion exchange of zeolites. 3,677,698, 7-18-72, Cl. 23-112.000.
- Sherry, Jeffrey Rufus: *See—*
Schmitt, Joseph Michael; Sherry, Jeffrey Rufus; and Robustelli, Albert George, 3,700,754.
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Wasson, John H.; Sherry, John S.; and Kayser, John P., 3,699,235.
- Sherwin, Lewis. Compositions containing lithium succinate. 3,639,625, 2-1-72, Cl. 424-317.
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Abbott, Austin C., Jr., 3,642,944.
Abraham, Edward D., 3,637,191.
Abraham, Edward D., 3,658,118.
Blower, Warren A.; Janke, Gilbert J.; and Abraham, Edward D., 3,682,230.
Brown, Paul R.; and Cooper, Philip H., 3,632,367.
Charvat, Vernon K.; and Jarvi, Robert E., 3,689,118.
Cryer, John; Foster, Harold M.; and Rees, Thomas C., 3,658,906.
Cunningham, Arthur L., 3,686,360.
Cunningham, Arthur L., 3,699,061.
Cunningham, Arthur L., 3,699,064.
DeVittorio, Joseph M.; and Story, Raymond E., 3,658,676.
Flint, Thomas F., 3,645,933.
Foster, Harold Marvin, 3,634,513.
Grivas, John C., 3,661,974.
Grivas, John C., 3,663,616.
Grivas, John C., 3,706,758.
Harris, Robert R.; and Kressman, Carl H., 3,666,698.
Haughney, Joseph P., 3,697,467.
Jacobs, Richard L., 3,635,973.
Keyl, Alex C.; and Brodie, Mary G., 3,669,716.
Kinsella, Thomas P.; and De Vittori, Joseph M., 3,682,806.
Kirkpatrick, Truman; and Nilles, James Jacob, 3,677,783.
Lyberger, John Edwin, 3,692,471.
Schurr, Garmond G.; and Morgan, Bruce M., 3,635,810.
Vacek, Lubomir C., 3,652,632.
Wagener, Anthony P., 3,657,248.
- Sherwood, Charles Frederick: *See—*
Luckey, George William; and Sherwood, Charles Frederick, 3,705,858.
- Sherwood, Henry A., to Lorraine Industries, Inc. Recording attachment for a phonograph and the like. 3,687,462, 8-29-72, Cl. 274-9.000.
- Sherwood, John C., to Sher Walls Inc. Operable wall panel. 3,685,223, 8-22-72, Cl. 52-64.000.
- Sherwood, John C., to Sher Walls Inc. Panel and stile construction. 3,700,385, 10-24-72, Cl. 52-36.000.
- Sherwood Medical Industries Inc.: *See—*
Alley, Ralph D.; and Sheridan, David S., 3,633,579.
Brown, Alexander M., 3,672,369.
Brown, Alexander M., 3,672,247.
Burlis, Norbert W.; and Talonn, Daniel A., 3,674,404.
Doeoschle, Fritz, 3,691,636.
Lahay, James F., 3,635,213.
Penniman, Allen; and Koenig, Elmer A., 3,696,916.
Plumpe, William H., Jr.; and Weichselbaum, Theodore E., 3,701,601.
Reeves, Richard A., 3,677,268.
Reiss, Robert Edward; Deuschle, Fritz; Moll, Wayne E.; and Merry, Jack D., 3,650,393.
Talonn, Daniel A., 3,650,466.
Talonn, Daniel A.; and Stumpf, Marvin D., 3,653,374.
Tascher, Edward R.; and Koenig, Elmer A., 3,662,517.
Walker, Clarence L., 3,640,434.
Wilhelmsen, Jack L.; and Michaels, Bruce E., 3,633,012.
- Sherwood, Noble P., Jr.; and Strickland, James P., to Textron, Inc. Hand-held power tool with anti-vibration mount. 3,637,029, 1-25-72, Cl. 173-162.
- Sherwood, Richard C.: *See—*
Gyorgy, Ernst M.; Sherwood, Richard C.; and Van Uitert, Le Grand Gerard, 3,648,260.
- Sherwood, Richard Curry: *See—*
Bacon, Donald Dingley; Nesbitt, Ethan Allen; Sherwood, Richard Curry; and Wernick, Jack Harry, 3,676,867.
Bobeck, Andrew Henry; Sherwood, Richard Curry; and Van Uitert, Le Grand Gerard, 3,665,427.
- Sherwood, Robert Edward, to Grace, W. R., & Co. Process and apparatus for vacuum packaging poultry. 3,638,389, 2-1-72, Cl. 53-22.
- Sherwood, William T., to Eastman Kodak Company. Camera exposure control. 3,649,112, 3-14-72, Cl. 352-141.
- Shesser, Arthur B., to Burroughs Corporation. Variable pattern gaseous display panel having segmented cathode electrodes. 3,703,657, 11-21-72, Cl. 313-109.500.
- Sheth, Prabhakar Ranchhordas; and Katz, Gilbert, to Hoffmann-La Roche Inc. Tablets containing 1-dopa. 3,632,778, 1-4-72, Cl. 424-319.
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- Sheth, Prafulchandra N.: *See—*
Berkowitz, Lawrence; Novickis, Georges; and Sheth, Prafulchandra N., 3,643,797.
- Shettel, Ralph E. Electrified node fencing. 3,690,618, 9-12-72, Cl. 256-10.000.
- Shettel, Ralph E. Irrigation control. 3,693,357, 9-26-72, Cl. 61-29.000.
- Shettel, Ralph E. Domestic ironing board. 3,698,110, 10-17-72, Cl. 38-107.000.
- Shettler, Patrick: *See—*
Haapola, Raymond E.; and Shettler, Patrick, 3,648,446.
- Shetty, Bola Vithal, to Pennwalt Corporation. 1-Heterocyclic alkyl-1,2,3,4-tetrahydroquinazolinone and analgesic intermediates thereof. 3,635,976, 1-18-72, Cl. 260-256.4.
- Shetty, Bola Vithal, to Pennwalt Corporation. Halo-sulfamyl-spiro- and dialkyl-quinazolinones. 3,637,698, 1-25-72, Cl. 260-256.5.
- Shetzley, George W.: *See—*
Sarallo, John F.; and Shetzley, George W., 3,651,407.
- Shevchenko, Alexandr Alexandrovich: *See—*
Ioffe, Benyamin Alexandrovich; Lapidus, Mikhail Khaimovich; Preis, Vladimir Viktorovich; Kalnin, Robert Karlovich; Sermons, Gunar Yanovich; Dorofeev, Vyacheslav Semenovich; Zheigur, Bruno Domenikovich; Shevchenko, Alexandr Alexandrovich; Denisov, Gennady Alexandrovich; Mikelson, Artur Eduardovich; and Makhlin, Aron Judovich, 3,662,302.
Zheigur, Bruno Domenikovich; Kalnin, Robert Karlovich; Ioffe, Benyamin Alexandrovich; Shevchenko, Alexandr Alexandrovich; Dorofeev, Vyacheslav Semenovich; Mikelson, Artur Eduardovich; and Kirko, Igor Mikhailovich, 3,645,377.
- Shevisov, Anatoly Ivanovich: *See—*
Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexandr; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikhailovich; Shevisov, Anatoly Ivanovich; Grinspon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toschev, Alexandr Mikhailovich, 3,687,188.
- Shevlin, Thomas S., to Minnesota Mining and Manufacturing Company. Integral heating elements. 3,640,764, 2-8-72, Cl. 117-212.
- Shevlin, Thomas S., to Minnesota Mining and Manufacturing Company. Apparatus and method for pulse cooking and heating. 3,666,921, 5-30-72, Cl. 219-492.000.
- Sheward, Marvin L. Universally-mountable gas service regulator. 3,705,599, 12-12-72, Cl. 137-116.500.
- Sheya, Fred. Pump apparatus for bottled water. 3,653,413, 4-4-72, Cl. 141-1.
- Shiari, Yoshimichi; and Komori, Toshimi, to Nippon Denso Kabushiki Kaisha. Ignition coil for internal combustion engine. 3,680,017, 7-25-72, Cl. 336-213.000.
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Kimura, Kenju, 3,657,665.
- Shiba, Kamekichi. Movable venturi type tube flow meter. 3,693,437, 9-26-72, Cl. 73-194.00m.
- Shiba, Kaoru. Method for converting sodium sulfide to sodium sulfite. 3,698,860, 10-17-72, Cl. 23-129.000.
- Shiba, Keisuke: *See—*
Sato, Akira; Misu, Hiroshi; Shiba, Keisuke; and Hinata, Masanao, 3,635,721.
Sato, Akira; Sonoda, Minoru; Shiba, Keisuke; Hinata, Masanao; and Nozoe, Tetsuo, 3,687,674.
- Shiba, Keisuke; and Sato, Akira, to Fuji Photo Film Co., Ltd. Silver halide supersensitized photographic emulsion. 3,632,349, 1-4-72, Cl. 96-123.

- Shiba, Keisuke; Hinata, Masanao; Sato, Akira; and Misu, Hiroshi, to Fuji Photo Film Co., Ltd. Super sensitized silver halide photographic emulsion. 3,649,288, 3-14-72, Cl. 96-122.
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- Shiba, Keisuke; Sato, Akira; and Ideka, Tadashi, to Fuji Photo Film Co., Ltd. Spectrally sensitized silver halide photographic emulsion. 3,666,480, 5-30-72, Cl. 96-124.
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- Shiba, Keisuke; Sueyoshi, Tohru; Akira, Sato; Kubodera, Seiti; and Tsubota, Motohiko, to Fuji Photo Film Co., Ltd. Photographic emulsion containing optically dye-sensitized silver halide grains of less than 2.2 micron. 3,706,566, 12-19-72, Cl. 96-120.000.
- Shiba, Motoharu: *See—*
Kono, Toyoo; Wada, Sakae; Shiba, Motoharu; Matsuno, Takashi; Yamamoto, Akihiro; Ogawa, Haruki; Okazaki, Hiroshi; Suzuki, Shigeo; and Noto, Takao, 3,632,746.
- Shiba, Sukeyori: *See—*
Kobayashi, Hiroshi; and Shiba, Sukeyori, 3,691,313.
- Shibabe, Sadami: *See—*
Gotohda, Masao; Araki, Kunio; Imamura, Shigeoshi; and Shibabe, Sadami, 3,634,218.
- Shibahara, Matthew: *See—*
Sifri, Elie C.; and Shibahara, Matthew, 3,654,834.
- Shibahara, Yasuo; Shimoyama, Yasohachi; and Otaki, Makoto, to Sanyo Chemical Industries, Ltd. Emulsifiable oxidized polyolefins. 3,692,877, 9-19-72, Cl. 260-897.000.
- Shibai, Hiroshi: *See—*
Niwa, Kunimori; Shibai, Hiroshi; Yasunaga, Masahiro; Hirose, Yoshio; and Shiro, Teruo, 3,669,844.
- Shibano, Takashi, to Matsushita Electric Industrial Co., Ltd. Power supply for driving magnetron. 3,671,847, 6-20-72, Cl. 321-32.000.
- Shibanova, Olga Mikhailovna: *See—*
Petrov, Gennady Nikolaevich; Lisochkin, Grigory Fedorovich; Shmagin, Valentin Parmenovich; and Shibanova, Olga Mikhailovna, 3,664,989.
- Shibaoka, Haruo; and Tsuchida, Shunichiro, to Fuji Photo Film Co., Ltd. Water-washing accelerating composition for silver halide color photographic light sensitive elements. 3,649,277, 3-14-72, Cl. 96-56.
- Shibasaki, Hiroichi: *See—*
Yoshikawa, Mituhiko; Nihei, Hiroshi; and Shibasaki, Hiroichi, 3,691,423.
- Shibasaki, Yukihisa: *See—*
Maeda, Kazuo; and Shibasaki, Yukihisa, 3,634,251.
- Shibata, Akira, to Chugai Denki Kogyo Kabushiki Kaisha. Heading machine. 3,635,389, 1-18-72, Cl. 228-3.
- Shibata, Akira, to Chugai Electric Industrial Co., Ltd. Composite silver cadmium oxide alloy contact with silver cadmium surface. 3,688,067, 8-29-72, Cl. 200-166.00c.
- Shibata, Fukuo, to Kawasaki Jukogyo Kabushiki Kaisha (Kawasaki Heavy Industries, Ltd.). Electric machine arrangement combining electromagnetic coupling with electric rotating machine. 3,683,249, 8-8-72, Cl. 318-205.000.
- Shibata, Hiroshi; and Morita, Tomijiro, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for production of sodium sulfite. 3,649,181, 3-14-72, Cl. 23-129.
- Shibata, Hiroshi; Morita, Tomijiro; and Nakano, Satoshi, to Kureha Kagaku Kogyo Kabushiki Kaisha. Production of sodium carbonate. 3,653,819, 4-4-72, Cl. 23-63.
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Suzuki, Masataka; and Shibata, Minoru, 3,681,557.
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Higashide, Eiji; Hasegawa, Toru; Shibata, Motoo; and Mizuno, Komei, 3,655,878.
Higashide, Eiji; Hasegawa, Toru; Shibata, Motoo; Kishi, Toyokazu; Harada, Setsuo; and Mizuno, Komei, 3,660,567.
Kishi, Toyokazu; Harada, Setsuo; Mizuno, Komei; Higashide, Eiji; and Shibata, Motoo, 3,691,181.
Nakazawa, Koiti; Shibata, Motoo; Higashide, Eiji; Kanzaki, Toshihiko; Yamamoto, Hiroichi; Miyake, Akira; Ueyanagi, Jisaburo; and Iwasaki, Hidesuke, 3,655,879.
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Sasaki, Shiro; and Shibata, Narajiro, 3,674,078.
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Morishima, Yoshio, 3,701,605.
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Nishio, Motohiro; Ito, Teiichiro; Koeda, Takemi; and Shibata, Uichi, 3,682,899.
- Shibata, Zenzaburo: *See—*
Morishima, Yoshio, 3,701,605.
- Shibatani, Akira: *See—*
Harada, Tetsuya; Fuzinami, Nobuo; Hasegawa, Koichi; and Shibatani, Akira, 3,656,980.
- Shibatani, Takeji: *See—*
Chibata, Ichiro; Kakimoto, Toshio; Shibatani, Takeji; and Nishimura, Noriyuki, 3,698,999.
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Kono, Hiroshi; and Shibazaki, Takeyoshi, 3,666,440.
- Shibazaki, Yasuichi: *See—*
Kiyohara, Shinzo; and Shibazaki, Yasuichi, 3,668,085.
- Shiborin, Viktor Ivanovich: *See—*
Vagin, Alexei Alexeevich; Shalygin, Veniamin Nikolaevich; Shiborin, Viktor Ivanovich; Murakhver, Vladimir Illich; and Sharov, Nikolai Grigorievich, 3,682,569.
- Vagin, Alexei Alexeevich; Yablonsky, Stanislav Valerievich; Voloshin, Petr Stepanovich; Sharov, Nikolai Grigorievich; Shiborin, Viktor Ivanovich; Novakovsky, Vladimir Efimovich; Kolpakov, Grigory Vasilievich; Ivanov, Mark Efremovich; Lindin, Viktor Mikhailovich; and Lipsky, Daniil Yakovlevich, 3,700,364.
- Shibuya, Hideo: *See—*
Yamamoto, Masayuki; Toki, Hisashi; and Shibuya, Hideo, 3,668,004.
Yamamoto, Masayuki; Toki, Hisashi; and Shibuya, Hideo, 3,697,334.
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Sugawara, Tsunenori; Shibuya, Teiji; Miyakado, Satoru; and Mase, Jiro, 3,695,466.
- Shibuya, Yoshikazu: *See—*
Nitta, Tohei; Shibuya, Yoshikazu; and Fujiwara, Yukio, 3,679,939.
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Farrar, Henry C.; Shichman, Daniel; and Wos, Joseph S., 3,650,103.
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Chari, Nallan C. S.; Olson, Kermit E.; and Shick, Philip E., 3,647,363.
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Trifunovic, Alexander L.; Hodges, James R.; and Shick, Richard L., 3,641,234.
- Shida, Sankichi: *See—*
Inami, Akira; Shida, Sankichi; and Haga, Mikio, 3,632,509.

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- Shida, Takafumi: *See—*
Aoki, Katsumichi; Uchida, Elizaburo; Shinoda, Kiichi; and Shida, Takafumi, 3,663,704.
- Shideler, Aubrey Meredith: *See—*
Maldeis, Lewis Fritts; and Shideler, Aubrey Meredith, 3,653,951.
- Shideler, Paul J.: *See—*
Koehler, Albert T.; Shideler, Paul J.; and Dohogne, Linus E., 3,673,950.
- Shidlovsky, Igal, to RCA Corporation. Cathodochromic sodalite and cathode ray tube employing same. 3,705,323, 12-5-72, Cl. 313-91.000.
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Miller, Glenn O., 3,682,164.
- Shield, Walter; Sagers, Michael John; and Calnan, James, to Flowtron Aire Limited. Apparatus for moving or activating parts of the body. 3,683,897, 8-15-72, Cl. 128-25.00r.
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Coover, Harry W., Jr.; and Shields, Donald J., 3,639,332.
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Rummel, Frederick A.; and Shields, Richard J., 3,687,802.
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Hopeman, Albert A., Jr.; Shiflet, Frank L.; and Schultz, Howard G., 3,651,776.
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Nishitani, Kazuo; Shiga, Yasuhiro; and Nishibayashi, Yoshifumi, 3,676,206.
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Kubo, Moritada; Shigehara, Masamichi; and Nogiwa, Yasuo, 3,641,347.
- Kubo, Moritada; Shigehara, Masamichi; and Yasui, Shozo, 3,681,583.
- Shigehiro, Kosuke: *See—*
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,647,866.
- Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,662,000.
- Shigematsu, Hiroaki: *See—*
Shimogaki, Toshio; Suzuki, Saburo; and Shigematsu, Hiroaki, 3,643,780.
- Shigematsu, Hiroji; Yamaguchi, Tomio; Fukue, Hisanobu; Ogawa, Hiroshi; Hashimoto, Takashi; Murakoshi, Kenichi; Suguri, Susumu; and Fujimura, Tsutomu, to Mitsubishi Jukogyo Kabushiki Kaisha and Japan Atomic Energy Research Institute. Remotely controllable defect detector of electric resistance type. 3,699,436, 10-17-72, Cl. 324-65.
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Tanaka, Tetsuro; and Bansho, Kiyoshi, 3,659,230.
- Shigeta, Masayuki; and Aoki, Katsumi, to Hitachi, Ltd. Worm gear type speed reduction device for an elevator. 3,641,832, 2-15-72, Cl. 74-427.
- Shigeta, Tamikazu: *See—*
Obuchi, Satoru; Fukuoka, Tokuji; Nagato, Saburo; Murakami, Kunio; Shigeta, Tamikazu; and Hayashi, Hiroyuki, 3,682,687.
- Shigeta, Yukio: *See—*
Abe, Hiroshi; Shigeta, Yukio; Uchimaru, Fumihiko; Okada, Seizaburo; and Kosasayama, Akira, 3,646,031.
- Shigezane, Keisuke: *See—*
Yamamura, Yuichi; Kokubu, Tatsuo; Shigezane, Keisuke; and Mizoguchi, Tomishige, 3,700,651.
- Shih, I-Kao; and Blaser, Eric, to Warner-Lambert Company. Poly aluminum hydroxy complexes and process for their production. 3,655,329, 4-11-72, Cl. 23-50.
- Shihara, Isao: *See—*
Takahashi, Hiroshi; Tanabe, Masanori; Yamaguchi, Muneaki; and Shihara, Isao, 3,644,548.
- Shiiki, Zenya: *See—*
Amagi, Yasuo; Ohya, Masaki; Shiiki, Zenya; and Yusa, Haruhiko, 3,671,610.
- Shiina, Naonori: *See—*
Hosoda, Kirokuro; and Shiina, Naonori, 3,651,183.
- Hosoda, Kirokuro; Shiina, Naonori; Kadowaki, Yoshio; and Nakae, Hiroyuki, 3,696,059.
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- Shikhman, Mark Aronovich: *See—*
Topopolsky, Yankel Meerovich; and Shikhman, Mark Aronovich, 3,703,114.
- Shiki, Mitsuyuki, to Omron Tateisi Electronics Co. Mounting arrangement for electrical device. 3,639,745, 2-1-72, Cl. 240-2.
- Shikishima Spinning Co. Ltd.: *See—*
Nakao, Minoru; and Yamamoto, Syozo, 3,651,659.
- Shikoku Kasei Kogyo Company Limited: *See—*
Matsubara, Mitio; Yagyu, Shigeyuki; and Takeuchi, Satoru, 3,674,533.
- Shikoku Paper Manufacturing Co.: *See—*
Ayuwaka, Buichiro, 3,666,552.
- Shilenas, Petras-Alvidas Petro: *See—*
Bauzhis, Albertas Vatslovovich; Damienaitis, Petras-Kestutis Petrovich; Zhlabis, Saulius Bonoventuro; and Shilenas, Petras-Alvidas Petro, 3,689,860.
- Shiley, Donald P.: *See—*
Shiley, Donald P.; and Fettel, Bruce E., 3,659,612.
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- Shiley, Donald P., mesne: *See—*
Shiley, Donald P.; Fettel, Bruce E.; and Hardy, Kenneth L., 3,693,624.
- Shilipetar, George: *See—*
Tenckhoff, Heinrich A. M.; and Shilipetar, George, 3,685,680.
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- Shilling, Wilbur L., to Crown Zellerbach Corporation. Process of alkylation with base of metal oxide. 3,701,814, 10-31-72, Cl. 260-475.0sc.
- Shilnikova, Albina Georgievna: *See—*
Menyailo, Anatoly Tikhonovich; Pospelov, Mikhail Valerievich; Kaliko, Olga Romanovna; Pokrovskaya, Inna Evgenievna; Fedorova, Valentine Vsevolodovna; Shilnikova, Albina Georgievna; Yakovleva, Antonina Karpovna; and Narozhenko, Tamara Georgievna, 3,664,810.
- Shilo, Alexander I.: *See—*
Craford, Thomas J.; Shilo, Alexander I.; and Cary, Harry W., Jr., 3,640,164.
- Shiloff, Jerome C., to Stauffer Chemical Company. Boric acid production. 3,650,690, 3-21-72, Cl. 23-149.
- Shilov, Alexandr Evgenievich: *See—*
Denisov, Nikolai Timofeevich; Efimov, Oleg Nikolaevich; Shuvalov, Viktor Fedorovich; Shuvalova, Natalia Ivanovna; Shilova, Alla Konstantinovna; and Shilov, Alexandr Evgenievich, 3,703,354.
- Shilov, Georgy Petrovich: *See—*
Vishnitsky, Alexandr Lazarevich; Shapiro, Lev Mironovich; Kazantsev, Evgeny Andreevich; Shvartsman, Benjamin Markovich; Shilov, Georgy Petrovich; Nemilov, Evgeny Fedorovich; Baisupov, Izmail Abdulovich; Masterov, Vasily Fomich; and Rumyantsev, Alexandr Steanovich, 3,705,848.
- Shilova, Alla Konstantinovna: *See—*
Denisov, Nikolai Timofeevich; Efimov, Oleg Nikolaevich; Shuvalov, Viktor Fedorovich; Shuvalova, Natalia Ivanovna; Shilova, Alla Konstantinovna; and Shilov, Alexandr Evgenievich, 3,703,354.
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- Shim, Norman: *See—*
Szymber, Oleg; and Shim, Norman, 3,672,757.
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Kurauchi, Noritaka; Tada, Shotaro; Shima, Hiroshi; Hiraoka, Susumu; Nagao, Taichiro; Koyama, Masahiro; Shiraishi, Satoshi; Shindo, Masuo; and Kobayashi, Yoshinobu, 3,674,990.
- Shima Kogaku Kabushiki Kaisha: *See—*
Nagashima, Motoi, 3,633,483.
- Shima, Seiya, to Hitachi, Ltd. Speed pattern generator for elevator control system. 3,670,851, 6-20-72, Cl. 187-29.00r.
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- Shima, Takue: *See—*
Shimauchi, Shiro; Minemura, Norihiro; Matsui, Takeshi; Ito, Kenji; Shima, Takue; Kawase, Shoji; and Oshima, Masataka, 3,666,403.
- Shima, Tsukasa: *See—*
Terasaki, Iwao; Kimura, Yoshio; Okamoto, Toshio; Shima, Tsukasa; Kohno, Mitsuo; and Kitamura, Kazuyuki, 3,669,927.
- Shimada, Hiroshi; Nagai, Mitsuru; Ohfuji, Mitsuo; and Sasaki, Toshiyuki, to Hitachi, Ltd. and Toyo Kogyo Co., Ltd. Fuel supply control system for automobile engines. 3,690,305, 9-12-72, Cl. 123-97.00b.
- Shimada, Katsunori: *See—*
United States of America, National Aeronautics and Space Administration, 3,648,152.
- Shimada, Kazuo: *See—*
Kodera, Yoshitake; Kato, Jun; Shimada, Kazuo; Suzuki, Morio; Ohse, Hidetaka; Ohshima, Satoshi; and Kuriki, Yasunori, 3,654,143.
- Shimada, Kenji: *See—*
Kadowaki, Takashi; Iwasaki, Takao; Mitsuta, Yutaka; and Shimada, Kenji, 3,691,143.
- Shimada, Kunio, to Miranda Camera Company Limited. Modified Gauss type lens system having a long back focal length. 3,634,001, 1-11-72, Cl. 350-217.
- Shimada, Masaharu: *See—*
Sakamoto, Junzo; Nozaki, Tadashi; Tsuji, Yoshifumi; and Shimada, Masaharu, 3,672,561.
- Shimada, Masaru: *See—*
Maruyama, Shoji; Saito, Tadashi; Yoshida, Shigeaki; and Shimada, Masaru, 3,699,000.
- Saito, Tadashi; Shimada, Masaru; and Sakai, Koyoshi, 3,664,840.
- Shimada, Michihiko: *See—*
Oishi, Masashi; Shimada, Michihiko; Nakayama, Yuji; Naito, Koichiro; and Okamoto, Kazuhiko, 3,669,645.
- Shimada, Mitsuhiro: *See—*
Suzuki, Yoshiji; Hayashi, Ikuro; Karasawa, Kazuo; and Shimada, Mitsuhiro, 3,700,953.
- Shimada, Sadakuni: *See—*
Koyama, Masaki; Shimada, Sadakuni; and Karikomi, Masahiro, 3,698,001.
- Shimada, Satoshi, to Sony Corporation. Electron type fluorescent display device with planar adjacent control electrode. 3,668,466, 6-6-72, Cl. 315-169.0tv.
- Shimada, Shoji: *See—*
Ishii, Yoshio; Sakai, Shizuyoshi; Fukuda, Nobuo; Shimada, Shoji; Kurokawa, Kikuro; and Suzuki, Rokuji, 3,654,156.
- Shimada, Shun-ichi: *See—*
Kambayashi, Akira; and Shimada, Shun-ichi, 3,656,942.
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- Shimada, Yoshiaki: *See—*
Uyama, Noboru; Shimada, Yoshiaki; Hino, Masamichi; and Yoneda, Rinosuke, 3,648,792.
- Shimadzu Seisakusho, Ltd.: *See—*
Fukuda, Yoshio, 3,680,957.
- Iwahashi, Kenji, 3,687,554.
- Kita, Yasuo, 3,658,452.
- Kita, Yasuo; and Hayashi, Tadao, 3,685,537.
- Kosaka, Mitsuo, 3,631,700.
- Kozawa, Shichibei; and Yamamoto, Hideki, 3,659,946.
- Kubodera, Toshiya; Hara, Tasuku; and Makabe, Hideki, 3,647,390.
- Shimoi, Saburo, 3,676,018.
- Tanno, Naiochiro, 3,656,215.
- Tsuda, Motohisa; and Yoshimura, Masao, 3,675,027.
- Shimago, Kozo: *See—*
Fukumura, Masataka; Shimago, Kozo; Okano, Shigeru; Nakatani, Hiroshi; and Hesaka, Kenji, 3,666,756.
- Yamamoto, Michihiko; and Shimago, Kozo, 3,700,736.
- Shimamoto, Takio: *See—*
Inoue, Michiro; Ishikawa, Hisako; Shimamoto, Takio; and Ishikawa, Masayuki, 3,635,992.
- Shimamoto, Toshihiro: *See—*
Nomura, Fumio; Takamiya, Yutaka; Mizuno, Sakuhiko; Higashi, Kunio; and Shimamoto, Toshihiro, 3,703,698.
- Shimamura, Isao: *See—*
Iijima, Yoo; Shimamura, Isao; Kondo, Tokiharu; and Haruhiko, Iwano, 3,674,491.
- Iijima, Yoo; Shimamura, Isao; Kondo, Tokiharu; and Iwano, Kanagawa, 3,687,669.
- Iwano, Haruhiko; and Shimamura, Isao, 3,649,281.
- Iwano, Haruhiko; and Shimamura, Isao, 3,677,760.
- Yamamoto, Nobuo; Hatano, Tadao; Shimamura, Isao; and Iwano, Haruhiko, 3,695,883.
- Yoneyama, Masakazu; Shimamura, Isao; Iwano, Haruhiko; and Ohi, Reiichi, 3,671,247.
- Shimamura, Masaru: *See—*
Irie, Kouhei; Kobayashi, Misao; and Shimamura, Masaru, 3,668,458.
- Shimamura, Mutsuo: *See—*
Imai, Tomio; Shimamura, Mutsuo; Yoshitake, Juichi; and Ohiwa, Hitoshi, 3,669,845.
- Shimamura, Tadao; and Takimoto, Yukio, to Nippon Electric Company, Limited. Delta modulator apparatus. 3,643,180, 2-15-72, Cl. 332-11.
- Shimamura, Takeshi: *See—*
Maemoto, Kenichi; and Shimamura, Takeshi, 3,651,028.
- Shimamura, Tuneso: *See—*
Sugiura, Shotaro; Ueno, Haruo; Ishikawa, Hideo; Yano, Takefumi; and Shimamura, Tuneso, 3,644,320.
- Shimanaka, Hiroshi: *See—*
Imai, Mitsuo; Shimanaka, Hiroshi; and Irie, Toshio, 3,649,372.
- Shimanaka, Hiroshi; Irie, Toshio; Tanda, Toshikuni; and Ichi, Tomoyuki, to Kawasaki Steel Corporation. Method of improving punchability of steel sheets. 3,666,568, 5-30-72, Cl. 148-6.200.
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- Shimano, Akira: *See*—
Haruna, Takashi; and Shimano, Akira, 3,639,710.
- Shimano, Akira; Maki, Shin; Ohyama, Katsuzi; and Uchiyama, Hiromichi, to Nissan Motor Company, Limited. Motor vehicle safety device. 3,650,542, 3-21-72, Cl. 280-150.
- Shimasaki, Nobuhiko: *See*—
Muroga, Ko; Okuda, Jiro; Shimasaki, Nobuhiko; Terashima, Toshio; Maruyama, Yasushi; Kaneyasu, Hiroshi; Sohma, Kikuya; and Lovell, Clarence A., 3,649,767.
- Shimatani, Kenji: *See*—
Koyama, Shigeo; Ohtsuki, Motohiro; Shimatani, Kenji; Yasuda, Masao; Takei, Toru; Kawai, Yasutaka; and Matsushima, Takeshi, 3,644,780.
- Shimauchi, Shiro; Minemura, Norihiro; Matsui, Takeshi; Ito, Kenji; Shima, Takue; Kawase, Shoji; and Oshima, Masataka, to Teijin Limited. Process for dyeing modified polyester fibers in the presence of quaternary ammonium salts. 3,666,403, 5-30-72, Cl. 8-12.
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- Shimazaki, Masahide: *See*—
Miyano, Katak; and Shimazaki, Masahide, 3,673,007.
- Shimazu, Hiroshi: *See*—
Morita, Shichiro; Shimazu, Hiroshi; Saito, Tsutomu; Nakamura, Hiroshi; and Maeda, Torata, 3,647,149.
- Shimazu, Tadao: *See*—
Maruyama, Mitsuo; Okabe, Akira; Yamazaki, Hideo; Sakai, Hideaki; Shimazu, Tadao; Kajiya, Shotaro; and Noda, Katsunobu, 3,651,056.
- Shimbo, Chiaki; Kojima, Hiroomi; Sekiya, Michio; Takeyasu, Kiyoo; and Sadao, Nomura, to Hitachi, Ltd. Digital light deflector. 3,658,409, 4-25-72, Cl. 350-150.
- Shimer, Daniel W.: *See*—
Salihi, Jalal T.; and Shimer, Daniel W., 3,659,168.
- Shimetsu Chemical Company: *See*—
Koyanagi, Shunichi; Kitamura, Hajime; and Tajima, Shigenobu, 3,671,508.
- Shimilevich, Izrail Yakovlevich. Power hydraulic cylinder. 3,654,838, 4-11-72, Cl. 92-24.
- Shimizu, Akihiko: *See*—
Sakomura, Toshio; Shimizu, Akihiko; Kino, Takayuki; and Kita, Atsushi, 3,669,944.
- Sakomura, Toshio; Shimizu, Akihiko; and Mori, Tadahi, 3,686,261.
- Shimizu, Akira: *See*—
Maeda, Itsutoshi; Nomura, Yasuichi; Hashimoto, Kohei; Shimizu, Akira; Mitsugi, Koji; and Yoshida, Ryonosuke, 3,707,505.
- Shimizu, Akira, to Piolot Man-Nen-Hitsu Kabushiki Kaisha. Device for fixing articles in frame structures. 3,670,439, 6-20-72, Cl. 40-156.000.
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Kasai, Shozo; Shimizu, Daisaburo; and Katagiri, Shinjiro, 3,643,191.
- Shimizu, Hiroshi: *See*—
Fukuma, Noboru; Matsui, Kenichi; and Shimizu, Hiroshi, 3,663,675.
- Kaiho, Isao; Shimizu, Hiroshi; and Osuka, Hiroshi, 3,696,172.
- Osuga, Hiroshi; Kaiho, Isao; and Shimizu, Hiroshi, 3,658,944.
- Shimizu, Hiroshi, to Terumo Ceramics Co., Ltd. Mercury coulometer having a electrode spacer. 3,662,262, 5-9-72, Cl. 324-94.000.
- Shimizu, Ikuzo: *See*—
Matsuno, Akira; Sasame, Takao; Shimizu, Ikuzo; Kizu, Humio; and Kagawa, Hiroyuki, 3,660,173.
- Shimizu, Isamu: *See*—
Inoue, Eiichi; Shimizu, Isamu; and Kobayashi, Hajime, 3,667,949.
- Shimizu, Junichi; and Kaga, Toshio, to Hokkaido Sugar Company, Ltd. Apparatus for continuous hydrolysis of raffinose. 3,664,927, 5-23-72, Cl. 195-141.
- Shimizu, Kanryo: *See*—
Inaba, Seiemon; Shimizu, Kanryo; and Hashimoto, Yoshihiro, 3,668,377.
- Shimizu, Katsumi: *See*—
Egawa, Susumu; Ashizaki, Shigeya; Shimizu, Katsumi; and Miyati, Toshiko, 3,700,954.
- Shimizu, Keisuke; and Suzuki, Kiichi. Flame-proof and no-smoke-producing plate for architectural use. 3,663,355, 5-16-72, Cl. 161-210.000.
- Shimizu, Kunio: *See*—
Oohara, Saburo; Amemiya, Koitsuro; Nishijima, Yasushi; Fukushima, Mitsuyoshi; and Shimizu, Kunio, 3,677,871.
- Shimizu, Masahiko, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Lift truck. 3,666,128, 5-30-72, Cl. 214-514.
- Shimizu, Masanao: *See*—
Minami, Shinsaku; Matsumoto, Jun-ichi; Shimizu, Masanao; and Takase, Yoshiyuki, 3,666,754.
- Minami, Shinsaku; Matsumoto, Jun-ichi; Shimizu, Masanao; and Takase, Yoshiyuki, 3,701,773.
- Yamabe, Shigeru; Shimizu, Masanao; and Yamamoto, Tadatsugu, 3,697,514.
- Shimizu, Masao: *See*—
Sakurai, Yasunobu; Sato, Hideo; Shimizu, Masao; and Inoue, Keiji, 3,660,699.
- Shimizu, Masao, to Denki Onkyo Co. Ltd. High voltage generating apparatus. 3,700,936, 10-24-72, Cl. 310-8.100.
- Shimizu, Mineo: *See*—
Nagashima, Shinichi; Takechi, Hiroshi; Matsuo, Youichi; Kato, Hiroshi; Shimizu, Mineo; and Takahashi, Nobuyuki, 3,642,468.
- Shimizu, Mineo; Takechi, Hiroshi; Kajioka, Hiroyuki; and Kawaharada, Minoru, to Nippon Steel Corporation. Process for producing cold-rolled steel plate high in the cold-formability. 3,668,016, 6-6-72, Cl. 148-2.
- Shimizu, Motoaki: *See*—
Hata, Toju; Kamada, Hideo; Wakaki, Shigetoshi; Kudo, Shiro; Tomioka, Keitaro; Mirumo, Hirofuto; Kato, Eturo; and Shimizu, Motoaki, 3,660,578.
- Shimizu, Munetaka, to Kabushiki Kaisha Kōparu. Bulb and time exposure control device for photographic camera. 3,650,193, 3-21-72, Cl. 95-53.
- Shimizu, Norio: *See*—
Sakai, Satoshi; Shirakawa, Kenzo; and Shimizu, Norio, 3,660,737.
- Shimizu, Sakae: *See*—
Arai, Fumiaki; Ohta, Wasaburo; Kurokawa, Junki; Usui, Noriyuki; Shimizu, Sakae; and Tanaka, Tetsuo, 3,682,632.
- Kundo, Kishichiro; Iwata, Hiroo; Yamaguchi, Nario; Shimizu, Sakae; and Tubuko, Kazuo, 3,640,709.
- Tubuko, Kazuo; Yamaguchi, Nario; and Shimizu, Sakae, 3,649,263.
- Yamaguchi, Nario; Shimizu, Sakae; and Tubuko, Kazuo, 3,671,235.
- Yamaguchi, Nario; Shimizu, Sakae; and Tubuko, Kazuo, 3,704,122.
- Yamaguchi, Nario; Shimizu, Sakae; Tubuko, Kazuo; Kondo, Kishichiro; and Iwata, Hiroo, 3,707,402.
- Shimizu, Sakae; Arai, Fumiaki; and Kurotori, Tuneo, to Ricoh Co. Ltd. Vinyl-amino resin interlayer for electrophotographic member used in offset printing. 3,639,122, 2-1-72, Cl. 96-1.8.
- Shimizu, Sakae; and Kimura, Tsuguo, to Kabushiki Kaisha Ricoh. Electrophotographic recording paper for use in the preparation of a planographic plate. 3,682,629, 8-8-72, Cl. 96-1.500.
- Shimizu, Shigenari: *See*—
Kunioka, Kazuo; Shimizu, Shigenari; and Hirata, Masaru, 3,659,428.
- Shimizu, Soichiro. Building-slip having a resilient supporting member. 3,664,140, 5-23-72, Cl. 61-64.000.
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- Shimizu, Takeshi: *See*—
Nitta, Yoshihiro; Ikeda, Yoshiaki; Furue, Toshiyuki; and Shimizu, Takeshi, 3,642,798.
- Shimizu, Teisuke; Sasaki, Atsuo; and Nagaki, Shigeo, to Cashew Kabushiki Kaisha. Tanning and fat liquoring method. 3,650,666, 3-21-72, Cl. 8-94.22.
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- Shimizu, Tetsuji: *See*—
Tanaka, Hiroshi; Naito, Shozo; and Shimizu, Tetsuji, 3,656,103.
- Shimizu, Tetsuji; Sumida, Hajime; Ueno, Sinichi; Usami, Susumu; and Tatematu, Sinzi, to Kabushiki Kaisha Tokai Kika Denki Seisakusho. Automatic temperature control circuit in a high-frequency heating apparatus. 3,634,652, 1-11-72, Cl. 219-497.
- Shimizu, Tetsuji; and Iwakura, Makoto, to Kabushikikaisha Tokai Rika Denki Seisakusho. Electric circuit for sequentially operating a plurality of AC loads. 3,651,335, 3-21-72, Cl. 307-223.
- Shimizu, Tetsuji; and Iwakura, Makoto, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Electric circuit for rapidly igniting a discharge tube. 3,676,734, 7-11-72, Cl. 315-200.000.

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- Shimizu, Toshihide: *See*—
Koyanagi, Shunichi; Tajima, Shigenobu; Shimizu, Toshihide; and Kurimoto, Kazuhiko, 3,669,946.
- Koyanagi, Shunichi; Kitamura, Hajime; and Shimizu, Toshihide, 3,706,705.
- Shimizu, Toshio: *See*—
Yamamoto, Kazumasa; Moriga, Hiroshi; Shimotsuna, Wataru; and Shimizu, Toshio, 3,632,526.
- Shimizu, Tsuneaki; and Ueno, Kazunao, to NGK Insulators, Ltd. Overload release type line post insulator. 3,634,609, 1-11-72, Cl. 174-158.
- Shimizu, Tsutomu: *See*—
Yagi, Eiichi; Kojima, Kenko; Ikeda, Hisayuki; Yauchi, Shiro; Shimizu, Tsutomu; Tamalate, Tokutaro; and Ikegawa, Hiroyuki, 3,680,841.
- Shimizu, Yasushi, to Nissan Motor Company Limited and Kanto Seiki Co., Limited. Steering lock device. 3,702,550, 11-14-72, Cl. 70-252.000.
- Shimizu, Yoshiaki: *See*—
Iemura, Toshio; Doi, Masaru; and Shimizu, Yoshiaki, 3,674,944.
- Shimizu, Yoshiyuki, to Nippon Kogaku K.K. Catadioptric telephoto objective lens system. 3,632,190, 1-4-72, Cl. 350-201.
- Shimizu, Yutaka, to Alps Electric Co., Ltd. Variable resistor. 3,693,129, 9-19-72, Cl. 338-183.000.
- Shimmin, Roy E.: *See*—
Rule, Arthur W. T.; Shimmin, Roy E.; and Laundry, Timothy, 3,639,605.
- Shimoda, Keitaro: *See*—
Nakagawa, Kazumi; and Shimoda, Keitaro, 3,644,609.
- Shimoda, Keitaro; Tsutsui, Nobuhiro; Sekiguchi, Hideto; and Sone, Masao, to Japan Exlan Company Limited. Acrylic fibers with improved brightness and process for producing the same. 3,673,053, 6-27-72, Cl. 161-177.000.
- Shimoda, Keitaro; and Obama, Isamu, to American Cyanamid Company. Acrylic synthetic fibers having improved properties and process for producing the same. 3,698,994, 10-17-72, Cl. 161-178.000.
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- Shimodoi, Yutaka: *See*—
Matsuda, Shogo; Shimodoi, Yutaka; Yamada, Hiraku; and Takao, Kiyoshi, 3,644,081.
- Matsuda, Shogo; Shimodoi, Yutaka; Oshima, Takeo; and Ochi, Kazushi, 3,653,806.
- Shimogaki, Toshio; Suzuki, Saburo; and Shigematsu, Hiroaki, to Barry-Wehmiller Co. Automatic bottle feeder. 3,643,780, 2-22-72, Cl. 198-25.
- Shimoi, Masahiro: *See*—
Huang, Ching Yun; and Shimoi, Masahiro, 3,632,546.
- Shimoi, Saburo, to Shimadzu Seisakusho, Ltd. Pumping apparatus. 3,676,018, 7-11-72, Cl. 417-72.000.
- Shimoji, Shusuke; and Takeshita, Yasuyuki. Coupling device of trailers. 3,637,236, 1-25-72, Cl. 280-419.
- Shimojima, Hiroyuki: *See*—
Honda, Soichiro; and Shimojima, Hiroyuki, 3,639,882.
- Shimokawa, Shinichi: *See*—
Chikatsu, Tatsusuke; Shimokawa, Shinichi; Yoshida, Yoshinori; Imamura, Masatogu; Nishiwaki, Ituo; Akimoto, Toshio; and Fujiwara, Tatsuji, 3,692,861.
- Shimokawa, Yoichi: *See*—
Okazaki, Kaoru; Shimokawa, Yoichi; Nakagawa, Asaharu; and Sugii, Kenji, 3,632,666.
- Okazaki, Kaoru; Shimokawa, Yoichi; Maeda, Taneo; Igawa, Keisuki; Okagawa, Chikatsu; and Kato, Koichi, 3,639,502.
- Shimola, Howard G., to Addressograph-Multigraph Corporation. Method of fixing electrostatically produced images. 3,706,588, 12-19-72, Cl. 117-21.000.
- Shimomura, Jun, to Nippon Kogaku K.K. Device for driving reflecting mirror of single-lens reflex camera. 3,699,864, 10-24-72, Cl. 95-42.000.
- Shimomura, Jun, to Nippon Kogaku K.K. Coupling device for exposure meter to aperture of interchangeable lens in single-lens reflex camera. 3,699,868, 10-24-72, Cl. 95-64.00r.
- Shimomura, Naonobu. Barometric altimeter. 3,693,405, 9-26-72, Cl. 73-384.000.
- Shimomura, Seiichi: *See*—
Ono, Isao; Fukabori, Kentaro; and Shimomura, Seiichi, 3,671,577.
- Shimomura, Takatoshi; and Kudo, Ken-ichi, to Sumitomo Chemical Company, Ltd. Process for producing block copolymers. 3,652,724, 3-28-72, Cl. 260-877.
- Shimomura, Takeshi: *See*—
Onishi, Akira; Irako, Koichi; Hayakawa, Yoshihiro; Shimomura, Takeshi; Iwami, Koichi; and Miyamoto, Shoji, 3,660,365.
- Shimomura, Yoshisada, to Yushin Seiki Kogyo Kabushiki Kaisha. Steering column lock for vehicles. 3,641,489, 2-8-72, Cl. 340-52.
- Shimonishi, Isao: *See*—
Yamaguchi, Hiroyuki; Tuji, Katsuyoshi; Maki, Kenji; and Shimonishi, Isao, 3,679,355.
- Shimono, Isokazu: *See*—
Shibata, Seiya; Yamasaki, Akitoshi; and Shimono, Isokazu, 3,672,666.
- Shimooka, Mike S. Automatic sugar dispenser. 3,650,439, 3-21-72, Cl. 222-445.
- Shimosaka, Yukio; Ueda, Sumimichi; and Nakajima, Shigeru, to Japan Exlan Company Limited. Production of α,α -disubstituted β -propiolactone polymers. 3,658,767, 4-25-72, Cl. 260-78.3.
- Shimosaki, Tetsuo, to Toyo Kogyo Co., Ltd. Hydraulic governor. 3,631,871, 1-4-72, Cl. 137-54.
- Shimosaki, Tetsuo. Control system for an automatic transmission. 3,656,373, 4-18-72, Cl. 74-869.
- Shimosato, Kazuo: *See*—
Ogata, Kazuo; and Shimosato, Kazuo, 3,671,578.
- Shimosawa, Ron, to Kiku Co. Combined ventilating and illuminating apparatus. 3,653,318, 4-4-72, Cl. 98-115.
- Shimosawa, Ron, to Kiku Co. Seating unit. 3,706,471, 12-19-72, Cl. 297-158.000.
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- Shimota, Robert E.; and Dritt, Harry J., to Kendall Company, The. Method of carpet seaming. 3,660,191, 5-2-72, Cl. 156-152.
- Shimotake, Hiroshi: *See*—
Cairns, Elton J.; Chilenskas, Albert A.; Steunenberg, Robert K.; and Shimotake, Hiroshi, 3,666,560.
- Shimotori, Kazumi: *See*—
Mito, Satoru; Shimotori, Kazumi; Kawai, Mituo; and Kawaguchi, Kanzi, 3,676,110.
- Shimotori, Kazumi; Takagi, Michiyasu; Kawamura, Yoshihisa; and Kiyooka, Shoichi, to Tokyo Shibaura Electric Co., Ltd. Magnetic head. 3,663,767, 5-16-72, Cl. 179-100.20c.
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- Shimotsuna, Teruo; Mori, Toshihiro; and Sano, Kazuo, to Nippon Kokan Kabushiki Kaisha. Apparatus for displaying a temperature distribution pattern. 3,644,667, 2-22-72, Cl. 178-6.8.
- Shimotsuna, Wataru: *See*—
Yamamoto, Kazumasa; Moriga, Hiroshi; Shimotsuna, Wataru; and Shimizu, Toshio, 3,632,526.
- Shimoyama, Yasohachi: *See*—
Shibahara, Yasuo; Shimoyama, Yasohachi; and Otaki, Makoto, 3,692,877.
- Shimp, David Alan: *See*—
Carlos, Donald Dante; and Shimp, David Alan, 3,703,497.
- Shimulenis, Juozas Juozas; and Shulsky, Petr-Vikenty Martynovich. Angle-reading device. 3,689,160, 9-5-72, Cl. 356-152.000.
- Shimura, Hidekazu: *See*—
Moriki, Juichi; Itoh, Teruo; Shiosaki, Masaharu; Maeda, Yojin; Kuroki, Hisataka; Sumi, Kenshiro; and Shimura, Hidekazu, 3,662,194.
- Shimura, Yoshihiro, to Rigaku Denki Company, Limited. X-ray stress measuring apparatus. 3,639,758, 2-1-72, Cl. 250-51.5.
- Shimura, Yoshihiro, to Rigaku Denki Company Limited. Fine focus X-ray tube. 3,668,454, 6-6-72, Cl. 313-57.
- Shin, Masaaki: *See*—
Miyake, Yasuhiko; Takayanagi, Eifu; Narita, Shigeo; Shin, Masaaki; Hayashi, Roshio; and Sakurai, Koichi, 3,676,053.
- Shin, Paik Woo; and Mayer, Edward H., to Bethlehem Steel Corporation. Method for producing non-oriented silicon electrical sheet steel. 3,634,148, 1-11-72, Cl. 148-111.
- Shin-Etsu Chemical Co., Ltd.: *See*—
Koyanagi, Shunichi; Ogawa, Kinya; and Akiya, Fumio, 3,639,270.
- Shinada, Hirotaka: *See*—
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keichi; and Shinada, Hirotaka, 3,697,577.
- Shinada, Noboru: *See*—
Juna, Kiyoshi; Shinada, Noboru; and Tuchiya, Masuo, 3,691,105.
- Shinagawa, Gentaro; and Nozato, Fujio. Massaging machine. 3,633,571, 1-11-72, Cl. 128-44.
- Shinbara, Hideo: *See*—
Sakomura, Toshio; Yoshida, Toshiro; Fujita, Yoshihiro; and Shinbara, Hideo, 3,696,173.
- Shindelar, Joseph John: *See*—
Rettig, Vernon Eugene; Maust, John Edward, Jr.; and Shindelar, Joseph John, 3,645,074.
- Shindelman, Jury Iosifovich; and Akulova, Galina Iosifovna. Low-pressure mercury-vapour gas-discharge fluorescent lamp with amalgam. 3,683,227, 8-8-72, Cl. 313-109.000.
- Shindler, George R.: *See*—
Satterwhite, Lawrence E.; Williamson, Alton M.; and Shindler, George R., 3,678,958.

- Shindo, Hiroshi: *See*—
Nakano, Sohta; Fujimoto, Kazumitsu; Otomo, Kazuhiro; Yokota, Toshiyuki; and Shindo, Hiroshi, 3,686,002.
- Shindo, Hisao; Nagoya, Yoshishige; Takeuchi, Takashi; and Murai, Kosuke, to Taiheiyō Kinoku Kabushiki Kaisha Co., Ltd. Direct production method for medium- and low-carbon ferromanganese. 3,652,263, 3-28-72, Cl. 75-80.
- Shindo, Makoto: *See*—
Hashimoto, Koji; Mogi, Noboru; and Shindo, Makoto, 3,644,223.
- Shindo, Masuo: *See*—
Kurauchi, Noritaka; Tada, Shotaro; Shima, Hiroshi; Hiraoka, Susumu; Nagao, Taichiro; Koyama, Masahiro; Shiraishi, Satoshi; Shindo, Masuo; and Kobayashi, Yoshinobu, 3,674,990.
- Shiner, Edward A.: *See*—
Tijunelis, Donatas; and Shiner, Edward A., 3,639,318.
- Shinetsu Chemical Company: *See*—
Ikoma, Masanobu, 3,697,469.
- Koyanagi, Shunichi; Kitamura, Hajime; Ogawa, Kinya; and Tajima, Shigenobu, 3,661,867.
- Koyanagi, Shunichi; Tajima, Shigenobu; Shimizu, Toshihide; and Kurimoto, Kazuhiko, 3,669,946.
- Koyanagi, Shunichi; Kitamura, Hajime; and Shimizu, Toshihide, 3,706,705.
- Takamizawa, Minoru; Hayashi, Takayoshi; Uzawa, Kazumoto; Takita, Masatoshi; and Kudo, Yoshiaki, 3,642,596.
- Wada, Tadashi; and Itoh, Kunio, 3,652,475.
- Wada, Tadashi; and Itoh, Kunio, 3,671,480.
- Wada, Tadashi; Itoh, Kunio; and Kuga, Naoyoshi, 3,677,981.
- Wada, Tadashi; Itoh, Kunio; Imai, Kiyoshi; and Inomata, Hiroshi, 3,699,073.
- Shinevsky, Lev Konstantinovich: *See*—
Usov, Vladimir Viktorovich; Zernograd Rostovskoi Oblasti; and Shinevsky, Lev Konstantinovich, 3,685,362.
- Shiney Co.: *See*—
Sumi, Kiyoshi; and Sunano, Naomasa, 3,699,803.
- Shing-Gong, Liu: *See*—
Levine, Peter Alan; and Shing-Gong, Liu, 3,638,141.
- Shingleton, Carroll R.: *See*—
Chadha, Rajendra N.; Arthur, Ralph P.; and Schweiker, George C., 3,697,489.
- Shinichi, Kondo: *See*—
Umezawa, Hamao; Shinichi, Kondo; Kenji, Maeda; Tomio, Takeuchi; and Masa, Hamada, 3,679,742.
- Shinjo, Katsumi. Automatic nut-tapping apparatus. 3,668,726, 6-13-72, Cl. 10-129,000.
- Shinkai, Takuo: *See*—
Kawai, Hidetoshi; Izuka, Hajime; Shinkai, Takuo; and Yoshioka, Yoshiro, 3,665,398.
- Shinkarenko, Boris Pavlovich: *See*—
Moravsky, Vladislav Eduardovich; Vorona, David Solomonovich; and Shinkarenko, Boris Pavlovich, 3,671,708.
- Shinkarenko, Mikhail Ivanovich: *See*—
Sokolov, Evgeny Vyacheslavovich; Yashkin, Eduard Petrovich; Syslov, Vadim Ivanovich; Kozhevnikov, Rady Savvich; Chabanov, Alim Ivanovich; Shinkarenko, Mikhail Ivanovich; Grinchuk, Petr Stepanovich; Fomin, Georgy Georgievich; and Rusaev, Vladimir Ivanovich, 3,686,907.
- Shinkawa, Hirotoshi: *See*—
Sassa, Atsuo; Yukutomi, Masuo; Shinkawa, Hirotoshi; Moriya, Tuneso; and Homma, Keisuke, 3,697,566.
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Himi, Hitoshi; Shinmon, Yasuhiro; and Teshima, Tokuro, 3,679,852.
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Ishikawa, Masaaki; and Shinoda, Daizaburo, 3,658,489.
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- Shinoda, Hajime: *See*—
Ishigaki, Yoshio; and Shinoda, Hajime, 3,660,679.
- Ishigaki, Yoshio; and Shinoda, Hajime, 3,688,129.
- Shinoda, Hajime; and Tsuchiya, Takao, to Sony Corporation. Pulse producing circuit. 3,654,495, 4-4-72, Cl. 307-293.
- Shinoda, Hirotaka: *See*—
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keiichi; Shinoda, Hirotaka; and Hasegawa, Yoshinori, 3,679,730.
- Shinoda, Kiichi: *See*—
Aoki, Katsumichi; Uchida, Elizabeth; Shinoda, Kiichi; and Shida, Takafumi, 3,663,704.
- Shinoda, Kiyonori; Watanabe, Tadayoshi; and Mizusawa, Shigeru, to Kureha Kagaku Kogyo Kabushiki Kaisha. Aluminum fluoride fluorination catalyst. 3,697,443, 10-10-72, Cl. 252-442,000.
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Fukukawa, Yukio; and Shinoda, Masaichi, 3,663,874.
- Shinoda, Toshimitu: *See*—
Ogiri, Masahiko; Kusumoto, Hazime; and Shinoda, Toshimitu, 3,687,744.
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Masunaga, Kunihiko; and Shinohara, Hiroshi, 3,686,079.
- Nishimura, Tatsumi; Shinohara, Hiroshi; Takita, Kiyoshi; and Kado, Masaru, 3,646,043.
- Nishimura, Tatsumi; Nagasawa, Sumio; Shinohara, Hiroshi; and Kado, Masaru, 3,692,902.
- Shinohara, Katsutoshi: *See*—
Murata, Kingo; and Shinohara, Katsutoshi, 3,697,770.
- Shinohara, Takashi: *See*—
Funada, Kiyotaka; Shinohara, Takashi; and Imai, Hiroko, 3,672,940.
- Kamiya, Nobuyuki; Funada, Kiyotaka; Shinohara, Takashi; and Imai, Hiroko, 3,664,860.
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Tamai, Isamu; Oyama, Minoru; Osakada, Atsushi; and Shinohara, Yasuo, 3,655,542.
- Shinohara, Yoshimi. Regulating pulp concentration in paper manufacturing. 3,705,078, 12-5-72, Cl. 162-198,000.
- Shinomiya, Hiroaki: *See*—
Matsubara, Toru; Kozuka, Tadashi; Shinomiya, Hiroaki; and Aoyama, Noritoshi, 3,636,902.
- Shinomiya, Masayasu: *See*—
Wakamatsu, Shigeru; Kondo, Ryojo; and Shinomiya, Masayasu, 3,700,669.
- Shinomiya, Yasuo: *See*—
Kubo, Moritada; and Shinomiya, Yasuo, 3,698,829.
- Shinonogi & Co., Ltd.: *See*—
Ikawa, Kenji; and Takami, Fumitaka, 3,673,234.
- Maekawa, Hideyuki; Sakamoto, Teruo; and Sagawa, Yoshihisa, 3,663,147.
- Nagata, Wataru; and Hirai, Shoichi, 3,639,408.
- Shinozaki, Akira: *See*—
Suzuki, Ruuzo; Sato, Sumihisa; Okamoto, Shuji; Shinozaki, Akira; and Doi, Tatsumi, 3,687,542.
- Shinozaki, Akira, to Konishiroku Photo Industry Co., Ltd. Exposure-control device in copying machines. 3,640,622, 2-8-72, Cl. 355-65.
- Shinozaki, Masanobu: *See*—
Honda, Masatsugu; and Shinozaki, Masanobu, 3,691,427.
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- Shintani, Sotokichi: *See*—
Nakagome, Yukio; Kawai, Kazuo; Yanagidaira, Hidetaka; Shintani, Sotokichi; and Michishita, Isakichi, 3,697,881.
- Yanagidaira, Hidetaka; Kawai, Kazuo; and Shintani, Sotokichi, 3,674,996.
- Yanagidaira, Hidetaka; Shintani, Sotokichi; and Michishita, Isakichi, 3,706,945.
- Shintani, Sotokichi; Kawai, Kazuo; and Yanagidaira, Hidetaka, to Kokusai Denshin Denwa Kabushiki Kaisha. System for demodulating an amplitude-modulated telegraphic wave or waves. 3,670,251, 6-13-72, Cl. 329-109,000.
- Shintomi, Yukito: *See*—
Nakamura, Tadahisa; Fujimoto, Hirozi; Yamamoto, Makoto; and Shintomi, Yukito, 3,673,363.
- Yamanoto, Makoto; and Shintomi, Yukito, 3,688,062.
- Shintron Company, Inc.: *See*—
Baxter, Larry K.; and Asano, Shintaro, 3,670,103.
- Baxter, Larry K., 3,673,322.
- Shinwa Sangyo Company, Limited: *See*—
Nagafuchi, Kazumi; Inada, Hitoshi; Ohmura, Nobuaki; Manago, Seiji; Tsunashima, Asaji; and Hazu, Masataka, 3,636,787.
- Shinya, Seishi: *See*—
Tamura, Masabi; Yoda, Masayuki; Shinya, Seishi; and Ayukawa, Yaichi, 3,686,144.
- Shinyei Company, Inc.: *See*—
Kamei, Shikizo, 3,635,418.

- Shio, Megumu: *See*—
Takahashi, Kinji; and Shio, Megumu, 3,679,287.
- Shio, Megumu, to Nippon Kogaku K.K. Bright illuminator for microscopes. 3,669,524, 6-13-72, Cl. 350-87,000.
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- Shiode, Chuji: *See*—
Ohira, Fukuichi; Matsumura, Toshikazu; and Shiode, Chuji, 3,642,761.
- Shiiori, Tomonori: *See*—
Takase, Shinji; and Shiiori, Tomonori, 3,691,255.
- Shiojima, Kenji: *See*—
Usui, Yoshito; Shiojima, Kenji; and Hatakeyama, Toshikatsu, 3,671,891.
- Shiokawa, Kozo: *See*—
Kishino, Shigeo; Yamada, Yasuo; Kudamatsu, Akio; Sumi, Shozo; and Shiokawa, Kozo, 3,683,053.
- Kishino, Shigeo; Shiokawa, Kozo; Kudamatsu, Akio; and Yamada, Yasuo, 3,689,603.
- Kishino, Shigeo; Kudamatsu, Akio; and Shiokawa, Kozo, 3,705,218.
- Shiomi, Masanaga; and Narumi, Tadataka, to Toyota Jidosha Kogyo Kabushiki Kaisha. Collision force absorption device. 3,705,740, 12-12-72, Cl. 293-89,000.
- Shiono, Takashi: *See*—
Kubota, Yasuharu; and Shiono, Takashi, 3,651,255.
- Shionogi & Co., Ltd.: *See*—
Hayakawa, Shohei; Matsushima, Takashi; Minato, Hitoshi; and Hirose, Katsumi, 3,660,568.
- Hayakawa, Shohei; Kanematsu, Yoshiko; and Fujiwara, Takashi, 3,674,842.
- Hirata, Masaharu, 3,670,080.
- Katagiri, Ken, 3,642,985.
- Katagiri, Ken, 3,647,631.
- Komeno, Taichiro, 3,657,225.
- Komeno, Taichiro, 3,660,382.
- Komeno, Taichiro; and Iwakura, Hikojo, 3,673,173.
- Kondo, Eiji; and Mitsugi, Takashi, 3,665,022.
- Makisumi, Yasuo, 3,663,550.
- Nagata, Wataru; and Nishimura, Haruo, 3,651,228.
- Nagata, Wataru; Terasawa, Tadao; and Aoki, Tsutomu, 3,661,999.
- Nagata, Wataru; and Hayase, Yoshio, 3,673,284.
- Nagata, Wataru; and Hirai, Shoichi, 3,681,362.
- Okumura, Tamotsu; and Kadono, Tetsuro, 3,677,410.
- Saeki, Haruji, 3,668,751.
- Sawa, Yoshiro; Maeda, Ryojo; and Tada, Haruhiko, 3,654,280.
- Sawa, Yoshiro; Maeda, Ryojo; and Iisawa, Junji, 3,707,470.
- Sumimoto, Shinzaburo; Makisumi, Yasuo; and Kano, Hideo, 3,660,383.
- Takamizawa, Akira; and Hirai, Kentaro, 3,666,831.
- Takamizawa, Akira; and Hirai, Kentaro, 3,679,677.
- Uchimoto, Tsutomu, 3,661,977.
- Watanabe, Yoshihachi; and Ogata, Masaru, 3,670,082.
- Shiori, Tomonori: *See*—
Takase, Shinji; and Shiori, Tomonori, 3,699,056.
- Shiosaki, James T., to Honeywell Inc. Inverse digital to analog converter. 3,691,552, 9-12-72, Cl. 340-347,000.
- Shiosaki, Masaharu: *See*—
Moriki, Juichi; Itoh, Teruo; Shiosaki, Masaharu; Maeda, Yojin; Kuroki, Hisataka; Sumi, Kenshiro; and Shimura, Hidekazu, 3,662,194.
- Shiota, Eiji: *See*—
Kobayashi, Akito; Watanabe, Kiyoshi; Narita, Yoshihiro; Shiota, Eiji; and Iwaoka, Kenji, 3,646,102.
- Shiota, Philip: *See*—
Welty, Joseph M.; Shiota, Philip; and Murray, Roger W., 3,636,619.
- Shioya, Akitoshi: *See*—
Nitta, Yoshihiro; Ikeda, Yoshiaki; Furue, Toshiyuki; Shioya, Akitoshi; Sugano, Shigeru; and Shiraki, Yasuyuki, 3,663,548.
- Shioyama, Osamu; Mine, Seizo; and Murata, Kikuzo, to Nihon Nohyaku Co., Ltd. Carbamoyl saccharin derivatives as fungicides. 3,699,228, 10-17-72, Cl. 424-270,000.
- Shiozaki, Hasunaga: *See*—
Shima, Takesaburo; Yamagishi, Akio; Sada, Masao; Yamamoto, Zenichi; and Shiozaki, Hasunaga, 3,668,221.
- Shiozawa, Daiichi, to Dai Nippon Insatsu Kabushiki Kaisha. Container for sprinkling powdered or granular materials. 3,664,554, 5-23-72, Cl. 222-183,000.
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- Shipley Company, Inc.: *See*—
Christensen, Carl W., 3,634,082.
- Christensen, Carl W.; and Isaacson, Calvin M., 3,649,283.
- Gulla, Michael; and Dutkewych, Oleh B., 3,649,308.
- Gulla, Michael, 3,661,597.
- Gulla, Michael; and Dutkewych, Oleh B., 3,663,242.
- Gulla, Michael, 3,663,441.
- Shipley, Charles R., Jr.; and Gulla, Michael, 3,650,957.
- Shipley, Charles R., Jr., 3,650,958.
- Shipley, Charles R., Jr.; and Dutkewych, Oleh B., 3,650,959.
- Shipley, Charles Raymond; Gulla, Michael; and Dutkewych, Oleh Bors, 3,677,776.
- Shipley, Gerald E.; and Girard, Robert R., to General Electric Company. By-pass valve mechanism. 3,638,428, 2-1-72, Cl. 60-226.
- Shipley, Linden E.: *See*—
Bortz, Seymour A.; Shipley, Linden E.; and Haughwout, Lefford B., 3,689,614.
- Shipley, Robert K.: *See*—
Depositar, Edward L.; Shipley, Robert K.; and Santore, David T., 3,663,175.
- Shipley, Robert M., to Kelsey-Hayes Company. Power driven tree harvesting method. 3,656,283, 4-18-72, Cl. 56-1.
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- Shipman, Patricia Violet: *See*—
Foreman, Christopher Roy; and Shipman, Patricia Violet, 3,676,985.
- Shipowners Refrigerated Cargo Research Association: *See*—
Hale, Kenneth Calvert; and Scrine, Gerald Robin, 3,699,694.
- Hales, Kenneth Calvert; and Scrine, Gerald Robin, 3,673,810.
- Shipp, Dennis E.: *See*—
Benning, Gregory M.; and Shipp, Dennis E., 3,643,357.
- Shipp, John I.; Welch, Nathan E.; and Broadbent, Thomas D., to Laser Systems & Electronics, Inc. Laser microaperture measurement instrument. 3,643,101, 2-15-72, Cl. 250-216.
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- Shipston Engineering Company Limited: *See*—
Griffiths, Graham Ernest; Geiger, Roger Keith; and Miles, John Walter, 3,643,917.
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- Shirafuji, Hideo: *See*—
Yoneda, Masahiko; Yaoi, Hideaki; Kida, Makoto; Matsuda, Shinobu; and Shirafuji, Hideo, 3,660,564.
- Shirage, Yoshio: *See*—
Mori, Kunio; and Shirage, Yoshio, 3,668,729.
- Shirai, Hiroshi: *See*—
Kobayashi, Kanjiro; Uyama, Takashi; Suzuki, Hideo; and Shirai, Hiroshi, 3,660,499.
- Shirai, Michiko: *See*—
Matsumoto, Yoshio; Shirai, Michiko; Saito, Hiroko; Kawashima, Takeshi; and Sakabe, Yuzuru, 3,694,149.
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- Shiraishi, Masaharu: *See*—
Mekata, Teizo; Yoda, Takashi; and Shiraishi, Masaharu, 3,644,170.
- Shiraishi, Masamichi: *See*—
Yamamoto, Hirohiko; and Shiraishi, Masamichi, 3,657,610.
Yamamoto, Hirohiko; and Shiraishi, Masamichi, 3,668,424.
- Shiraishi, Masao: *See*—
Hori, Toshio; Yamato, Akira; and Shiraishi, Masao, 3,644,556.
- Shiraishi, Masao; and Maeda, Kiyoshi, to Mitsubishi Petrochemical Co., Ltd. Process for the production of olefinic rubbery copolymers of modified molecular weight. 3,687,911, 8-29-72, Cl. 260-80.780.
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Kurauchi, Noritaka; Tada, Shotaro; Shima, Hiroshi; Hiraoka, Susumu; Nagao, Taichiro; Koyama, Masahiro; Shiraishi, Satoshi; Shindo, Masuo; and Kobayashi, Yoshinobu, 3,674,990.
- Shiraishi, Syuhei; and Saito, Tadashi, to Kabushiki Kaisha Ricoh. Diazotype light-sensitive material for intermediate original. 3,645,741, 2-29-72, Cl. 96-91.
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- Shirakami, Yoshiaki: *See*—
Yasuoka, Yoshio; and Shirakami, Yoshiaki, 3,678,238.
- Shirakawa, Kenzo: *See*—
Sakai, Satoshi; Shirakawa, Kenzo; and Shimizu, Norio, 3,660,737.
- Shirakawa, Tadashi; Inagaki, Tooru; Suzuki, Tadao; and Ogawa, Koji, to Ajinomoto Co., Inc. Titration automation. 3,649,205, 3-14-72, Cl. 23-253.
- Shiraki, Takashi: *See*—
Morita, Minoru; Shiraki, Takashi; and Masuoka, Sadao, 3,668,775.
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- Shiraki, Yasuyuki: *See*—
Nitta, Yoshihiro; Ikeda, Yoshiaki; Furue, Toshiyuki; Shioya, Akitoshi; Sugano, Shigeru; and Shiraki, Yasuyuki, 3,663,548.
- Shirane, Yasuhio; and Yamada, Junzo, to Sumitomo Metal Industries, Ltd. Roll dampening. 3,701,397, 10-31-72, Cl. 188-33.000.
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- Shirasaka, Nobuhiko: *See*—
Itoh, Yokichi; Shirasaka, Nobuhiko; and Tauchi, Shoji, 3,661,727.
- Shirashoji, Akira: *See*—
Kitaoka, Takashi; and Shirashoji, Akira, 3,670,225.
- Shirashoji, Akira, to Mitsubishi Denki Kabushiki Kaisha. System for controlling DC power. 3,643,149, 2-15-72, Cl. 321-2.
- Shirasu, Kazuo: *See*—
Amano, Hiroyuki; Tsuji, Nobuo; Miyazako, Takushi; Shirasu, Kazuo; and Tutiya, Yosinori, 3,650,752.
Amano, Hiroyuki; and Shirasu, Kazuo, 3,666,468.
Amano, Hiroyuki; Iwano, Haruhiko; and Shirasu, Kazuo, 3,667,950.
Amano, Hiroyuki; Nishio, Fumihiko; Tsuji, Nobuo; and Shirasu, Kazuo, 3,676,139.
Amano, Hiroyuki; Tsuji, Nobuo; and Shirasu, Kazuo, 3,677,762.
Amano, Hiroyuki; Ohii, Reiichi; and Shirasu, Kazuo, 3,705,036.
Ohii, Reiichi; Kondo, Tokiharu; Shirasu, Kazuo; and Ono, Yoshiaki, 3,707,375.
- Shirato, Shiroh: *See*—
Misato, Tomomasa; Huang, Keng Tang; Shirato, Shiroh; Seino, Akio; Nakamura, Yuko; Aizawa, Shojiro; and Taguchi, Ryusuke, 3,657,422.
- Shiratori, Wataru, to Toyo Kasei Co., Ltd. Pattern paint. 3,635,858, 1-18-72, Cl. 260-22.
- Shirayama, Kenzo: *See*—
Terada, Hiroshi; and Shirayama, Kenzo, 3,700,753.
- Shiraz, Iran: *See*—
Saidi, Farrokhi; Shiraz, Iran; and Walker, Alan John, 3,658,066.
- Shirco, Inc.: *See*—
Hobbs, Jim F.; and Smyser, Craig, 3,648,630.
- Shire, Harold; Newman, Ira R.; and Allison, Robert S., to General Connectors Corporation. Connector clamp. 3,632,144, 1-4-72, Cl. 285-231.
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Lumpkin, Oscar J.; and Shiren, Norman S., 3,657,554.
- Shires, Michael John: *See*—
Bush, Stephen Frederick; Shires, Michael John; Johnson, Frank Williams; and Williams, Richard Anthony, 3,707,547.
- Shirey, Carey L.; and Gilgore, William H., to Teledyne, Inc. Cooling apparatus for bakery products. 3,692,195, 9-19-72, Cl. 214-16.40c.
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- Shirey, John E.: *See*—
Lewis, James M.; and Shirey, John E., 3,697,276.
Wainer, Eugene; Petro, Victor P.; Fox, Robert D.; Shirey, John E.; and Smerillo, John A., 3,660,096.
- Shirley, Brian William; and Hutchinson, Philip, to G.K.N. Birfield Transmissions Limited. Universal joints. 3,678,706, 7-25-72, Cl. 64-7.000.
- Shirley, Loyd C.: *See*—
Cochran, Tatum R. (said Cochran assor. of 1/4 each to), 3,653,195.
- Shirn, George A.; and Lazott, James B., to Sprague Electric Company. Heated rear-view mirror. 3,686,473, 8-22-72, Cl. 219-219.000.
- Shiro, Teruo: *See*—
Ikeda, Shigehiro; Ishizaki, Ayaaki; Hirose, Yoshio; and Shiro, Teruo, 3,674,639.
Kubota, Koji; and Shiro, Teruo, 3,661,711.
Niwa, Kunimori; Shibai, Hiroshi; Yasunaga, Masahiro; Hirose, Yoshio; and Shiro, Teruo, 3,669,844.
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Kokubo, Ryo; Takakuwa, Yasuo; Shiroishi, Akihiro; and Kihara, Mitsuji, 3,700,672.
- Shiroki, Masami: *See*—
Nakanishi, Michio; Arimura, Katsuo; Tsumagari, Tatsumi; and Shiroki, Masami, 3,651,052.
- Shirokov, Grigory Ivanovich: *See*—
Silvestrov, Sergei Nikolaevich; Sinichkin, Moisei Mikhailovich; Shirokov, Grigory Ivanovich; Soloviev, Jury Filippovich; Silvestrov, Nikolai Demyanovich; and Amusin, Boris Zinovievich, 3,675,433.
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Miyashiro, Shoichi; Shirouzu, Shunji; and Iwasawa, Mineo, 3,659,140.
Miyashiro, Shoichi; Shirouzu, Shunji; and Tsuji, Shigeo, 3,702,410.
Tsuji, Shigeo; and Shirouzu, Shunji, 3,633,077.
- Shirshov, Vladimir Grigorievich: *See*—
Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Bondarenko, Oleg Petrovich; Latash, Jury Vadimovich; Baglai, Vitaly Mikhailovich; and Shirshov, Vladimir Grigorievich, 3,665,488.
Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Bondarenko, Oleg Petrovich; Latash, Jury Vadimovich; Baglai, Vitaly Mikhailovich; and Shirshov, Vladimir Grigorievich, 3,682,622.
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Gacs, Peter T.; and Shirzad, Paul P., 3,699,600.
- Shishido, Tadao: *See*—
Shiba, Keisuke; Ohii, Reiichi; and Shishido, Tadao, 3,669,672.
- Shitikov, Valentin Kuzmich: *See*—
Korshak, Vasily Vladimirovich; Polpin, Mark Efimovich; Sergeev, Vladimir Alexandrovich; Shitikov, Valentin Kuzmich; and Kolomnikov, Igor Sergeevich, 3,705,131.
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Tsukioka, Hideo; and Shito, Nobuhiko, 3,657,468.
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Chung, Jerome; and Shiuh, Hsiung, 3,695,763.

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Tateisi, Kazuma; Mizuta, Yukio; and Shizuya, Kyoto, 3,648,020.
- Shklyarov, Isak Nakhimovich: *See*—
Kalner, Veniamin Davidovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Ryskind, Alexandr Moiseevich; Semenov, Viktor Nikolaevich; Stepin, Anatoly Loginovitch; Surov, Mikhail Andreevich; Shepelyakovskiy, Konstantin Zakharovich; and Shklyarov, Isak Nakhimovich, 3,696,225.
Nikonov, Vladimir Filippovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Riskind, Alexandr Moiseevich; Stepin, Anatoly Loginovitch; Shepelyakovskiy, Konstantin Zakharovich; and Shklyarov, Isak Nakhimovich, 3,684,854.
- Shklyarov, Isak Nakhimovich: *See*—
Ostrovsky, Grigory Arkadievich; Orlovsky, Anatoly Georgievich; Nikonov, Vladimir Filippovich; Kalner, Veniamin Davidovich; Shklyarov, Isak Nakhimovich; Stepin, Anatoly Loginovitch; Bysink, Alexandr Moiseevich; Shepelyakovskiy, Konstantin Zakharovich; and Smrnov, Stanislav Ivanovich, 3,655,466.
- Shkredka, Jurek: *See*—
Richter, Robert K.; and Shkredka, Jurek, 3,701,380.
- Shkredka, Jurek, to Kaiser Aluminum & Chemical Corporation. Workpiece handling and production apparatus. 3,651,955, 3-28-72, Cl. 214-1.
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Pokhodnya, Igor Konstantinovich; Alter, Vladimir Fedorovich; Kaplenko, Igor Prokofievich; Suprun, Sergei Alexandrovich; Suptel, Alexandr Mikhailovich; Shlepakov, Mikhailovich; and Shlepakov, Valery Nikolaevich, 3,688,376.
- Shlepakov, Valery Nikolaevich: *See*—
Pokhodnya, Igor Konstantinovich; Alter, Vladimir Fedorovich; Kaplenko, Igor Prokofievich; Suprun, Sergei Alexandrovich; Suptel, Alexandr Mikhailovich; Shlepakov, Mikhailovich; and Shlepakov, Valery Nikolaevich, 3,688,376.
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Bogoroditsky, Alexandr Alexandrovich; Ryzhevskaya, Tamara Nikolaevna; Ryzhevsky, Alexei Gordeevich; and Shlyandin, Viktor Mikhailovich, 3,665,456.
- Shlyapnikov, Alexei Dmitrievich: *See*—
Zykov, Vladimir Pavlovich; Panov, Alexei Alexandrovich; Prudnikov, Pavel Alexeevich; Khlopov, Mikhail Ivanovich; and Shlyapnikov, Alexei Dmitrievich, 3,675,087.
- Shmagin, Valentin Parnenovich: *See*—
Petrov, Gennady Nikolaevich; Lisochkin, Grigory Fedorovich; Shmagin, Valentin Parnenovich; and Shibanova, Olga Mikhailovna, 3,664,989.
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Minami, Shinsaku; Shono, Toshihiro; Shmmizu, Masanao; and Takase, Yoshiyuki, 3,673,184.
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Grenda, Edward P.; Guiguizian, Jacques; and Shneider, Harold M., 3,693,019.
- Shneider, Harold M.; and Bower, Robert G., to Honeywell Inc. Modularized card reader. 3,701,524, 10-31-72, Cl. 271-10.000.
- Shnepp, Vladimir Borisovich: *See*—
Amosov, Pavel Evgenievich; Smekhov, Vitaly Konstantinovich; Trofimov, Valery Leonidovich; Shvarts, Avely Isaich; Shnepp, Vladimir Borisovich; and Razumovsky, Alexandr Petrovich, 3,692,441.
- Shnitzler, Meyer J.: *See*—
Grefe, Philipp G.; Lewiecki, Edward M.; and Shnitzler, Meyer J., 3,634,122.
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Krellner, Walter G.; and Shobert, Erle I., II, 3,671,092.
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Lockwood, Charles A., 3,641,603.
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Knabusch, Edward M.; Shoemaker, Edwin J.; and White, David B., 3,695,701.
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- Uchida, Teiji; Shogo, Washio; and Tatsumi, Ryuji, 3,634,777.
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- Inoi, Takeshi; Sueyoshi, Koji; Fujii, Masahiro; Shoji, Kenjiro; Shudo, Akio; Yoshizaki, Takayoshi; and Yutaka, Matsuo, 3,703,518.
- Shoji, Kitamaru: *See—*
- Kaneko, Keiji; Shoji, Kitamaru; and Mukai, Minoru, 3,706,180.
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- Morita, Teruo, 3,703,940.
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- Nitida, Taro; Yumoto, Hiroshi; Tsuruoka, Takashi; Hammoto, Kazuko; Shomura, Takashi; and Ohashi, Takao, 3,678,159.
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- Shonka, Francis R.: *See—*
- Baisz, George J.; and Shonka, Francis R., 3,701,080.
- Shonka, Louis M.: *See—*
- Baisz, George J.; and Shonka, Francis R., 3,701,080.
- Shonnard, John R.: *See—*
- Kaye, George W.; and Shonnard, John R., 3,673,593.
- Shono, Masayuki: *See—*
- Sato, Shui; Nakajima, Tomio; Shono, Masayuki; and Kagami, Teruo, 3,663,209.
- Sato, Shui; Ishihara, Masao; Sakamoto, Eiichi; Shono, Masayuki; and Sugino, Osakazu, 3,663,230.
- Shono, Toshihiro: *See—*
- Minami, Shinsaku; Shono, Toshihiro; Shmmizu, Masanao; and Takase, Yoshiyuki, 3,673,184.
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- Shook, Jackson A.: *See—*
- Chapman, Harvey W.; and Shook, Jackson A., 3,680,491.
- Shook, James H.: *See—*
- Richens, Kenneth A.; Grover, Scott C.; Allred, James K.; and Shook, James H., 3,632,001.
- Shooman, William: *See—*
- Miller, Howard S.; and Shooman, William, 3,665,409.
- Shoop, James D.: *See—*
- Krug, Newton J.; McClain, Richard B.; and Shoop, James D., 3,637,277.
- Shoop, James D., to Diebold, Incorporated. Protective door structure. 3,638,589, 2-1-72, Cl. 109-76.
- Shoop, Vernon A.: *See—*
- Bowser, George H.; Shoop, Vernon A.; and Pyzewski, Stanley J., 3,657,900.
- Bowser, George H.; Shoop, Vernon A.; Pyzewski, Stanley J.; Mazzoni, Renato J.; and Bologna, John P., 3,669,785.
- Shopalovich, Predrag: *See—*
- Criley, Ronald L.; Frost, Richard H.; and Shopalovich, Predrag, 3,642,235.
- Shoptaugh, Philip L. Board game apparatus. 3,695,615, 10-3-72, Cl. 273-130.00r.
- Shore, Arnold I.: *See—*
- Demarest, Donald M.; and Shore, Arnold I., 3,646,400.
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- Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A., 3,632,524.
- Muzyczko, Thaddeus M.; Shore, Samuel; and Loboda, Jon A., 3,687,870.
- Muzyczko, Thaddeus M.; Shore, Samuel; and Martin, Jerome A., 3,705,106.
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- McElroy, Larry N.; and Shores, Varo A., 3,666,386.
- Shorokhov, Leonid Pavlovich: *See—*
- Budman, Moisei Izrailevich; Kaganovsky, Frederik Isaakovich; Kapitanov, Nikolai Ivanovich; Karzov, Jury Nikolaevich; Nadtochenko, Andrei Fedorovich; Slavetsky-Kotvitsky, Eduard Sebstyanovich; and Shorokhov, Leonid Pavlovich, 3,668,921.
- Shorr, Leonard M.: *See—*
- Waterman, Jacques Abraham; Shaham, Ilan; and Shorr, Leonard M., 3,674,756.
- Shorr, Norman; and Littell, Harry E., Jr., to PPG Industries, Inc. Laminated windows. 3,657,057, 4-18-72, Cl. 161-2.
- Shorre, Gustav: *See—*
- Borck, Joachim; Dahm, Johann; Koppe, Volker; Kramer, Josef; Shorre, Gustav; Hovy, J. W. Hermann; and Schorscher, Ernst, 3,669,956.
- Shorrock, John Douglas. Tap changing apparatus for transformers. 3,693,070, 9-19-72, Cl. 323-43.50r.
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- Long, Elton B.; and Short, Arthur G., 3,653,523.
- Short, Doyle D.: *See—*
- Eubanks, Weldon N.; and Short, Doyle D., 3,691,977.
- Short, Eric: *See—*
- Hogben, Peter Reginald; and Short, Eric, 3,656,730.
- Short, Franklin W.: *See—*
- Kaltenbrunn, James S.; and Short, Franklin W., 3,682,976.
- Kaltenbrunn, James S.; and Short, Franklin W., 3,704,328.
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- Andrews, Timothy Douglas; Short, Glyn David; and Thomas, Ieuan, 3,671,250.
- Andrews, Timothy Douglas; Short, Glyn David; and Thomas, Ieuan, 3,697,528.
- Short, Gordon: *See—*
- Benson, William; and Short, Gordon, 3,636,693.
- Short, Henry O., to Simplimatic Engineering Co. Two direction quick adjusting bar clamp. 3,677,584, 7-18-72, Cl. 287-49.000.
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- Lohkamp, Carl W.; and Short, James E., Jr., 3,635,162.
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- Short, James N.: *See—*
- Quigg, Donald J.; and Short, James N., 3,645,947.
- Short, James N.; Zelinski, Robert P.; Gaeth, Rudolf H.; and Zuech, Ernest A., to Phillips Petroleum Company. Olefin polymers and method for producing same. 3,637,627, 1-25-72, Cl. 260-88.2.
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- Short, John W.: *See—*
- Michaelson, Joseph B.; and Short, John W., 3,646,193.

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- Short, William H.: *See—*
- Pryor, Harry H.; Short, William H.; and Koeneker, William V., 3,666,558.
- Shorter, John Jeffrey: *See—*
- Webb, Frank Allan; and Shorter, John Jeffrey, 3,670,341.
- Shortes, Samuel R., to Texas Instruments, Incorporated. Phosphor screen fabrication. 3,639,138, 2-1-72, Cl. 117-33.5.
- Shorthouse, Barry Owen: *See—*
- Eccles, Anthony John; Mant, Alistair Donald; and Shorthouse, Barry Owen, 3,695,115.
- Shortway, Harry A.: *See—*
- Petry, Robert K.; and Shortway, Harry A., 3,674,611.
- Shortway, Harry A.; Graham, Alan A.; Mansolillo, Robert D.; and Dobry, Joseph F., to Congoleum Industries, Inc. Wear resistant, textured resinous compositions. 3,660,187, 5-2-72, Cl. 156-79.
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- Shotton, James A.: *See—*
- Stansbury, Roy E.; and Shotton, James A., 3,643,450.
- Shotwell, Daniel B.; and Ritter, Arthur J., to Caterpillar Tractor Company. Universal joint with laminate bearings. 3,645,115, 2-29-72, Cl. 64-17.
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- Shoup, Loren A.: *See—*
- Herpich, William A.; Cooley, Charles R.; and Shoup, Loren A., 3,662,910.
- Shoup, Robert D., to Corning Glass Works. Silicate bodies containing coprecipitated oxides. 3,678,144, 7-18-72, Cl. 264-42.000.
- Shove, Gordon William: *See—*
- Gackstetter, Henry Clinton; Anderson, Harold Francis; Shove, Gordon William; and Morin, Louis George, 3,671,314.
- Shovel Supply Co., Inc.: *See—*
- Kiser, Warren C., 3,703,836.
- Shovlin, Thomas F.: *See—*
- Conner, Joseph R.; Shovlin, Thomas F.; and Helm, Jack D., 3,680,421.
- Showa Aluminum Kabushiki Kaisha: *See—*
- Kamiya, Osamu; Asano, Yuichiro; and Kanai, Tomiyoshi, 3,650,005.
- Showa Denko Kabushiki: *See—*
- Sumikama, Sadao, 3,680,374.
- Sumikama, Sadao, 3,693,447.
- Uda, Kiminori; Yamamoto, Hiroya; Kasuga, Naoatu; and Fujiyoshi, Kenzi, 3,663,325.
- Showa Denko Kabushiki Kaisha: *See—*
- Hashimoto, Koji; Mogi, Noboru; and Shindo, Makoto, 3,644,223.
- Hori, Yasuaki; Yoneda, Kazuo; and Kobayashi, Takahiko, 3,689,441.
- Ito, Masatomo; Miyazawa, Yasuo; and Gotoh, Tsuneo, 3,634,316.
- Kitano, Yukio, 3,666,406.
- Kusama, Fumihiko; and Yamanaka, Minoru, 3,661,555.
- Nakajima, Masaki; Hosogane, Tadayuki; Kobayashi, Shoichi; and Ishihara, Shigenobu, 3,644,579.
- Ogawa, Masao; Enjoji, Teruyuki; and Arai, Humio, 3,640,914.
- Oikawa, Takashi; and Fujimoto, Takeshi, 3,689,417.
- Oushiba, Takashi, 3,661,512.
- Sato, Chosei; Furukawa, Akihisa; and Sano, Yoichi, 3,649,185.
- Sato, Wasuke; Hatakeyama, Shigeyuki; Koide, Masashi; Yamamoto, Sadao; and Fujisawa, Mitsumaro, 3,700,523.
- Takahashi, Akira; Kojima, Hiroo; Ogawa, Masao; Osuka, Hiroshi; and Kobayashi, Shoichi, 3,673,279.
- Yano, Tomosaburo; Oishi, Naoaki; Komatsu, Akitoshi; and Koyama, Keizi, 3,647,415.
- Showa Densen Denran Kabushiki Kaisha; a/k/a Showa Electric Wire and Cable Co., Ltd.: *See—*
- Suzuki, Munehiko; Hosokawa, Etsuo; and Waki, Misao, 3,634,304.
- Showa Electric Wire & Cable Co., Ltd.: *See—*
- Suzuki, Munehiko; Hosokawa, Etsuo; Waki, Misao; and Fukushima, Masatada, 3,692,740.
- Suzuki, Munehiko; Hosokawa, Etsuo; Waki, Misao; and Fukushima, Masatada, 3,696,077.
- Showa Highpolymer Co., Ltd.: *See—*
- Takiyama, Eiichiro; and Hokamura, Sadakazu, 3,676,524.
- Showa Kagaku Kogyo Kabushiki Kaisha: *See—*
- Suzuki, Kazuaki, 3,671,524.
- Showa Rubber Co., Ltd.: *See—*
- Takahashi, Akira; and Nemoto, Gentaro, 3,639,300.
- Showa Tsusho Co., Ltd.: *See—*
- Ohinata, Sadahiro, 3,643,062.
- Showa Zoki Co., Ltd.: *See—*
- Watanabe, Shigeru; and Ito, Michinobu, 3,673,745.
- Showalter, Guy M.; Schroeder, Harry C.; and Gause, Kermit, said Showalter and Gause assors. to said Schroeder, Harry C. Method of making containers and lids therefor. 3,632,717, 1-4-72, Cl. 264-152.
- Showalter, John Melville, to Otis Elevator Company. Compensating sheave apparatus for elevators. 3,653,467, 4-4-72, Cl. 187-22.
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- Showater, William E., to Union Oil Company of California. Method and apparatus for dispersing a solid material in a liquid. 3,653,638, 4-4-72, Cl. 259-4.
- Shpagina, Nadezhda Nikolaevna: *See—*
- Potak, Yakov Mikhailovich; Orzhekhovskiy, Julian Felixovich; Sachkov, Vladimir Vladimirovich; Kagan, Efim Solomonovich; Valdman, Anna Ivanovna; Shpagina, Nadezhda Nikolaevna; Poplavko-Mikhailov, Mikhail Vasilievich; Fomin, Alexander Pavlovich; and Natapov, Smon Leibovich, 3,690,869.
- Shrader, Robert L., to Airco, Inc. Vacuum coating apparatus. 3,656,454, 4-18-72, Cl. 118-49.
- Shrader, Robert Leland, to Airco, Inc. Apparatus for supporting a substrate holder. 3,662,708, 5-16-72, Cl. 118-49.
- Shrader, William W.: *See—*
- Dill, William E.; La Vault, Maurice G.; Kokoszka, Stanley L.; and Shrader, William W., 3,639,892.
- Shramovich, Paul F.: *See—*
- Altherr, Russell G.; Shramovich, Paul F.; and Metzger, Nelson D., 3,640,402.
- Shramovich, Paul F., to Amsted Industries Incorporated. Railway coupler butt. 3,635,356, 1-18-72, Cl. 213-64.
- Shreck, Peter K.: *See—*
- Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K., 3,637,221.
- Geils, Alfred E.; Raymond, William J.; Roberts, Richard W.; and Shreck, Peter K., 3,697,162.
- Shrewsbury, Robert M.; and Walcker, Jake J. Rotary engine. 3,685,498, 8-22-72, Cl. 123-8.090.
- Shrier, Adam L.: *See—*
- Li, Norman N.; Cahn, Robert P.; and Shrier, Adam L., 3,637,488.
- Shrimpton, Ronald Horace; and Dunkley, Keith William, to Dunlop Holdings Limited. Printers blankets. 3,700,541, 10-24-72, Cl. 161-160.000.
- Shriner, Donald R., to Corning Glass Works. Hinge clip assembly. 3,653,092, 4-4-72, Cl. 16-128.
- Shriner, William H.: *See—*
- Damoth, Donald C.; and Shriner, William H., 3,644,775.
- Damoth, Donald C.; and Shriner, William H., 3,660,654.
- Shriver, Charles S., to Orbit Manufacturing Company. Method of making finned tubing. 3,643,312, 2-22-72, Cl. 29-157.3.
- Shriver, Edward W.: *See—*
- Tollefsrud, Warren H.; and Shriver, Edward W., 3,677,423.
- Shriver, Joe E.: *See—*
- Koch, Earl E.; and Shriver, Joe E., 3,699,754.
- Shriver, Joe E., to Sperry Rand Corporation. Control for a differentially steered vehicle. 3,679,015, 7-25-72, Cl. 180-6.200.
- Shriver, Spencer A.: *See—*
- Carpentier, Richard A.; Shriver, Spencer A.; and Smith, Richard C., 3,649,906.
- Shriver, T., & Company, Inc.: *See—*
- Bentzien, Leonard T., 3,637,082.
- Fisner, William L., 3,633,747.
- Hutton, William L., 3,669,267.
- Shroff, Arvin Pranlal, to Ortho Pharmaceutical Corporation. 3-Aza-A-homo-steroids. 3,679,664, 7-25-72, Cl. 260-239.30p.
- Shroff, Arvind: *See—*
- Rosatelli, Carlo; and Shroff, Arvind, 3,646,320.
- Shroff, James R.: *See—*
- Elpern, Bill; and Shroff, James R., 3,669,974.
- Elpern, Bill; Shapiro, Harris J.; Shroff, James R.; and Soloway, Harold, 3,673,238.
- Shroff, Jayant R.: *See—*
- Sharpe, Louis H.; Shroff, Jayant R.; and Vaccaro, Frank J., 3,652,340.

- Shroff, Mahesh Shantilal: *See—*
Shah, Girish Chandulal; and Shroff, Mahesh Shantilal, 3,679,614.
- Shroff, Shrenik: *See—*
Vassiliades, Anthony E.; Nauman, Edward F.; and Shroff, Shrenik, 3,669,899.
- Vassiliades, Anthony E.; Shroff, Shrenik; and Nauman, Edward F., 3,707,514.
- Shrout, Harold: *See—*
Prachar, Otakar P.; and Shrout, Harold, 3,631,728.
- Shroyer, Larry L., to Lyall Electric, Inc. Electrical connector. 3,706,066, 12-12-72, Cl. 339-59.00r.
- Shryock, Robert Stanley. Camper kitchen and utility trailer. 3,667,799, 6-6-72, Cl. 296-23.00b.
- Shteinshteyn, Boris. Jewelry bracelet catch. 3,676,904, 7-18-72, Cl. 24-265.0ws.
- Shtelmakh, Alexandr Alexandrovich: *See—*
Britvin, Lev Nikolaevich; Sergeev, Vitaly Andreevich; Spassky, Konstantin Semenovich; Smirnov, Igor Nikolaevich; Scheglov, Gennady Mikhailovich; Shtelmakh, Alexandr Alexandrovich; Prudovsky, Boris Moiseevich; Karakhanian, Vladimir Karpovich; Ivanov, Viktor Vasilievich; and Semenov, Mikhail Ivanovich, 3,659,969.
- Shtin, Lev Mikhailovich: *See—*
Efimov, Leonid Alexandrovich; Shtin, Lev Mikhailovich; Sinitzky, Vladimir Mikhailovich; Khirdzhev, Sergei Grigorievich; Pylaikin, Petr Alexeevich; Satovskaya, Ljudmila Sergeevna; Grebnev, Nikolai Feodosovich; Rasseikin, Mikhail Grigorievich; Kalugin, Konsantin Yakovlevich; Somov, Boris Stepanovich; and Baranchikov, Vladimir Mikhailovich, 3,678,728.
- Shtin, Lev Mikhailovich; Grebnev, Nikolai Feodosovich; Satovskaya, Ljudmila Sergeevna; Rasseikin, Mikhail Grigorievich; Khirdzhev, Sergei Grigorievich; Perevozchikov, Evgeny Titovich; Zagulina, Sofia Stepanovna; Duda, Vladimir Nikolaevich; and Karasev, Mikhail Andreevich. Horizontal hydraulic press for tubular articles. 3,664,168, 5-23-72, Cl. 72-265.
- Shubenko-Shubin, Leonid Alexandrovich: *See—*
Andreev, Pavel Alexeevich; Blinov, Konstantin Andreevich; Gremilov, Dmitry Ivanovich; Kanaun, Boris Izrailevich; Kanaev, Andrei Andreevich; Aslanian, Gurken Nazarovich; Paramonov, Pavel Mikhailovich; Panshin, Boris Mikhailovich; Sobolev, Sergei Petrovich; nd Shubenko-Shubin, Leonid Alexandrovich, 3,693,599.
- Shubkin, Ronald L.: *See—*
Dubeck, Michael; and Shubkin, Ronald L., 3,678,083.
- Keblys, Kestutis A.; and Shubkin, Ronald L., 3,694,502.
- Shubkin, Ronald L., to Ethyl Corporation. Preparation of carboxylic acids. 3,644,443, 2-22-72, Cl. 260-413.
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- Shuda, Donald G.: *See—*
Giles, George R.; and Shuda, Donald G., 3,656,064.
- Shudo, Akio: *See—*
Inoi, Takeshi; Sueyoshi, Koji; Fujii, Masahiro; Shoji, Kenjiro; Shudo, Akio; Yoshizaki, Takayoshi; and Yutaka, Matsuo, 3,703,518.
- Shuey, David R., to Xerox Corporation. Circuitry for distinguishing between background and intelligence areas on a document. 3,652,791, 3-28-72, Cl. 178-7.1.
- Shuey, David R., to Xerox Corporation. Interrupted pulsing circuit for audible signaling. 3,686,666, 8-22-72, Cl. 340-384.00e.
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- Shuey, Scott James, to Borg-Warner Corporation. Machinery shaft radial position monitor/alarm system. 3,678,493, 7-18-72, Cl. 340-269.000.
- Shufflebarger, Cleo W. Extractor for lock retainer clips. 3,641,657, 2-15-72, Cl. 29-278.
- Shufflebarger, Earl D.; Danko, Oliver L.; and Medvick, Richard J., to Nupro Company. Valve having improved cam-type actuator. 3,656,709, 4-18-72, Cl. 251-95.
- Shuffler, Eustace Cosmo: *See—*
Rodwin, Stephen Anthony; and Shuffler, Eustace Cosmo, 3,694,926.
- Shufran, Stephen: *See—*
Motz, Fred J.; and Shufran, Stephen, 3,667,409.
- Shughart, Mervin Leonard, to AMP Incorporated. Apparatus for assembling articles in strip form to workpieces. 3,699,631, 10-24-72, Cl. 29-203.00b.
- Shukovsky, Harold Barry; and Torok, Theodore Elwyn, to Western Electric Company, Incorporated. Method of producing in seriatim separate coatings on a conductor. 3,639,217, 2-1-72, Cl. 204-35.
- Shukshin, Nikolai Pavolich: *See—*
Andrusenko, Petr Ivanovich; Dolganov, Kint Evgenievich; Kovalev, Alexandr Ivanovich; Berezovsky, Pavel Iosipovich; Dmitrenko, Vladimir Ilich; Shukshin, Nikolai Pavolich; Gurevich, Jury Feodosievich; Kislov, Vladimir Grigorievich; Chevtayev, Andrei Vasilievich; Koshman, Eduard Ivanovich; and Filippov, Vladimir Vasilievich, 3,676,023.
- Shular, Howard E.: *See—*
Sellers, John, Jr.; and Shular, Howard E., 3,676,048.
- Shuler, Jackie Fay Mehrens: *See—*
Mehrens, Audrey O. J., 3,692,309.
- Shull, Bradford K.: *See—*
Snoy, Joseph B.; and Shull, Bradford K., 3,651,904.
- Snoy, Joseph B.; and Shull, Bradford K., 3,667,501.
- Shull, Robert W.; and Thompson, Ronald, to General Housewares Corporation. Egg cooker. 3,704,663, 12-5-72, Cl. 99-347.000.
- Shulman, Arthur; and Bonis, Henry M., Jr., to Nabs Leasing Corporation. Material feeding guide system for industrial sewing machinery. 3,664,281, 5-23-72, Cl. 112-20.
- Shulman, Grigory Alexandrovich: *See—*
Khrenov, Konstantin Konstantinovich; Gursky, Pavel Ivanovich; Shulman, Grigory Alexandrovich; Klimenko, Gennady Alexeevich; Kirdo, Ivan Viktorovich; Dmitrenko, Georgy Viktorovich; Yagupov, Ivan Nikolaevich; Tsyrlin, Mark Irmovich; Novikov, Anatoly Petrovich; and Puzov, Filimon Efimovich, 3,688,382.
- Shulman, Mildred: *See—*
Mininno, Anthony; Slaterry, John; and Shulman, Mildred, 3,684,882.
- Shulsky, Petr-Vikenty Martynovich: *See—*
Shimulenis, Juozas Juozo; and Shulsky, Petr-Vikenty Martynovich, 3,689,160.
- Shulton Inc.: *See—*
Cinnamon, Jerome Marshall; and Westman, Morton A., 3,646,216.
- Dehn, Joseph W., Jr.; and Paradiso, Mary R., 3,661,500.
- Shults, Gary W.; and Wierbicki, Eugen, to United States of America, Army. Process for stabilizing structure of ground meat. 3,642,500, 2-15-72, Cl. 99-108.
- Shultz, Andrew: *See—*
Friedman, Cecil A.; Scarcello, Francis J.; Shultz, Andrew; and Walter, Julius E., 3,634,271.
- Shultz, Andrew; and Kaplan, Melvin, to Allied Chemical Corporation. Polysocyanate compositions. 3,634,361, 1-11-72, Cl. 260-77.5.
- Shultz, Bernard R.: *See—*
Kaufmann, Morris; and Shultz, Bernard R., 3,669,757.
- Shultz, James R.: *See—*
Bucek, Jiri B.; and Shultz, James R., 3,678,355.
- Shultz, John E.; and Herderhorst, Wilfred W., to Tokheim Corporation. Electrical in-tank fuel pump. 3,676,025, 7-11-72, Cl. 417-423.000.
- Shultz, William S.: *See—*
Winget, Clifford L.; Gibson, George W.; and Shultz, William S., 3,664,438.
- Shulzhenko, Alexandr Alexandrovich: *See—*
Bakul, Valentin Nikolaevich; Prikhna, Alexei Iosifovich Alexei; Shulzhenko, Alexandr Alexandrovich; and Gerasimovich, Alexei Vladimirovich, 3,695,797.
- Shulzhenko, Alexandr Alexandrovich; and Getman, Anatoly Fedorovich, to Ordena Trudovogo Krasnogo Znameni Ukrainsky Nauchno-Issledovatel'skiy Konstruktorskiy Tekhnologicheskyy Institut Sinteticheskikh Sverkhtrverdykh materialov i Instrumenta Gosplana Ukrainsoi SSR. Method for synthesizing diamond. 3,676,068, 7-11-72, Cl. 23-209.100.
- Shum, John, Jr., to Olin Corporation. Engine starting system with combination air relay and check valve. 3,675,417, 7-11-72, Cl. 60-39.140.
- Shumaevskaya, Alla Nikolaevna: *See—*
Korshak, Vasily Vladimirovich; Gribova, Irina Alexandrovna; Krasnov, Alexandr Petrovich; Teplyakov, Mikhail Mikhailovich; Fedorova, Hoza Dmitrievna; and Shumaevskaya, Alla Nikolaevna, 3,652,408.
- Shumaker, Charles Storer, to United Engineering and Foundry Company. Rolling mill. 3,651,679, 3-28-72, Cl. 72-238.
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- Shumaker, John F. Extensible dipper stick for backhoe. 3,688,930, 9-5-72, Cl. 214-141.000.
- Shumaker, Thomas P.: *See—*
Odom, James J., Jr.; Shumaker, Thomas P.; and Griffin, Donald B., 3,634,230.
- Shuman, Joseph George, to Technical Tape Corporation. Tape dispenser with static electricity neutralizer. 3,636,408, 1-18-72, Cl. 317-2.
- Shuman, Richard F.: *See—*
Schoenewaldt, Erwin F.; Hazen, George G.; and Shuman, Richard F., 3,660,372.
- Shumard, Raymond F.: *See—*
Galloway, Reginald B.; and Shumard, Raymond F., 3,676,547.
- Shun-ichi, Kawasaki: *See—*

- Kambayashi, Akira; Shun-ichi, Kawasaki; and Ehara, Takashi, 3,664,830.
- Shunichiro, Nishizaki; and Akira, Fukami, to Mitsubishi Electric Corporation. Copolymer of poly(quinazolone and imide) and process for producing the same. 3,674,741, 7-4-72, Cl. 260-47.0cp.
- Shunk, Clifford H.: *See—*
Shen, Tsung-Ying; and Shunk, Clifford H., 3,637,803.
- Shen, Tsung-Ying; and Shunk, Clifford H., 3,689,567.
- Shunsuke Nakano: *See—*
Komazaki, Yujiro; and Watanabe, Takeshi, 3,662,155.
- Shur, Grigory Iosifovich: *See—*
Kostin, Konstantin Fedorovich; Sapunov, Georgy Konstantinovich; Svirin, Alvin Afanasievich; Strakhov, Valery Ivanovich; and Shur, Grigory Iosifovich, 3,648,091.
- Shur-Lift Trailer & Manufacturing Co.: *See—*
Stephens, James M.; and Tallman, Erven, 3,664,459.
- Shur-Lok Corporation: *See—*
Charles, James F., 3,678,535.
- Hinkle, Ewan M.; and Hoegee, Robert A., 3,633,951.
- Hoegee, Robert A., 3,674,075.
- Volkman, Josef F., 3,651,563.
- Shure Brothers Inc.: *See—*
Fuchs, Robert J.; Thomsen, James P.; and Jakobs, Bernhard W., 3,686,939.
- Plice, Gerald W., 3,653,625.
- Shurgan, Joel: *See—*
Koo, Ronald C.; and Shurgan, Joel, 3,662,789.
- Shuster, George A.: *See—*
Stanzola, Ralph T.; and Shuster, George A., 3,697,764.
- Shuster, Ronald F., to Picker Corporation. Automatic collimator control for X-ray apparatus. 3,643,095, 2-15-72, Cl. 250-105.
- Shute, Adrian L. Spring-loaded folding arm. 3,675,885, 7-11-72, Cl. 248-351.000.
- Shute, Donald W., to Spacetac Incorporated. Waveform restorer circuit. 3,671,781, 6-20-72, Cl. 307-252.00w.
- Shuto, Yoshitaka. Sectional golf bag. 3,674,072, 7-4-72, Cl. 150-1.50r.
- Shutt, Melvin S.: *See—*
Bridenstine, Orville J.; Shutt, Melvin S.; and Brookshire, Harry A., 3,672,530.
- Shutt, Paul B.: *See—*
Hughes, Harold W.; and Shutt, Paul B., 3,646,759.
- Shutt, Paul B., to Bendix Corporation. The. Metering valve. 3,677,606, 7-18-72, Cl. 303-6.00c.
- Shutt, Paul B., to Bendix Corporation. The. Multiple feature master cylinder. 3,686,864, 8-29-72, Cl. 60-54.0se.
- Shutt, Paul B.; and Barnes, Charles M., to Bendix Corporation. The. Combination proportioning and bypass valve. 3,701,567, 10-31-72, Cl. 303-6.00c.
- Shuttleworth, Frank, to National Research Development Corporation. Separation of liquids. 3,651,944, 3-28-72, Cl. 210-265.
- Shuttleworth, Howard P.: *See—*
Shuttleworth, James J.; Sprague, Carlton S.; Shuttleworth, Howard P.; Zimmerman, Charles E.; and Wiseman, John A., 3,672,117.
- Shuttleworth, James J.; Sprague, Carlton S.; Shuttleworth, Howard P.; Zimmerman, Charles E.; and Wiseman, John A., to Shuttleworth Machinery Corporation. Hinge pan packer. 3,672,117, 6-27-72, Cl. 53-35.000.
- Shuttleworth Machinery Corporation: *See—*
Shuttleworth, James J.; Sprague, Carlton S.; Shuttleworth, Howard P.; Zimmerman, Charles E.; and Wiseman, John A., 3,672,117.
- Wiseman, John A., 3,662,516.
- Shuvalov, Viktor Fedorovich: *See—*
Denisov, Nikolai Timofeevich; Efimov, Oleg Nikolaevich; Shuvalov, Viktor Fedorovich; Shuvalova, Natalia Ivanovna; Shilova, Alla Konstantinovna; and Shilov, Alexandr Evgenievich, 3,703,354.
- Shuvalova, Natalia Ivanovna: *See—*
Denisov, Nikolai Timofeevich; Efimov, Oleg Nikolaevich; Shuvalov, Viktor Fedorovich; Shuvalova, Natalia Ivanovna; Shilova, Alla Konstantinovna; and Shilov, Alexandr Evgenievich, 3,703,354.
- Shvagzhys, Povilas Prantsishkaus: *See—*
Nashljunas, Rimantas Alfonso; Zhlabys, Romualdas Alberto; Bucijunas, Hazimiras Gediminas; and Shvagzhys, Povilas Prantsishkaus, 3,639,903.
- Shvarts, Avely Isaich: *See—*
Amosov, Pavel Evgenievich; Smekhov, Vitaly Konstantinovich; Trofimov, Valery Leonidovich; Shvarts, Avely Isaich; Shnepp, Vladimir Borisovich; and Razumovsky, Alexandr Petrovich, 3,692,441.
- Shvartsman, Benyamin Markovich: *See—*
Vishnitsky, Alexandr Lazarevich; Shapiro, Lev Mironovich; Kazantsev, Evgeny Andreevich; Shvartsman, Benyamin Markovich; Shilov, Georgy Petrovich; Nemilov, Evgeny Fedorovich; Baisupov, Izmail Abdulovich; Masterov, Vasily Fomich; and Rumyantsev, Alexandr Steanovich, 3,705,848.
- Shwyder, Warren M. Process for recovering refractory carbide particles from pieces of cemented carbides. 3,635,674, 1-18-72, Cl. 23-208.
- Shyaku, Tadasi: *See—*
Nakajima, Tutomu; and Shyaku, Tadasi, 3,690,976.
- Shyne, James J.; and Milewski, John V., to General Technologies Corporation. Three-dimensional crystal whiskers and method for preparation thereof. 3,668,062, 6-6-72, Cl. 161-177.000.
- Sia, Joseph B., to Onan Eastern Corporation. Transfer switch and generator control means, and new and improved method of operation thereof. 3,636,368, 1-18-72, Cl. 307-64.
- Siai-Marchetti S.p.A.: *See—*
Monti, Giancarlo, 3,635,048.
- Monti, Giancarlo, 3,635,103.
- Monti, Giancarlo, 3,640,643.
- Monti, Giancarlo, 3,674,379.
- Monti, Giancarlo, 3,698,666.
- Parenti, Giorgio, 3,648,533.
- Parenti, Giorgio, 3,669,136.
- Siamp-Cedap, Societe Anonyme Monegasque: *See—*
Scheibling, Robert, 3,694,119.
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- Sieber, Johannes Helmut: *See—*
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- Kwasnik, Herbert R.; Sieckhaus, John F.; and Knollmueller, Karl O., 3,637,589.
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- Miller, Howard B.; and Siet, George E., 3,675,332.
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- Vollhardt, Frohmüt, 3,658,498.
Vollhardt, Frohmüt, 3,690,374.
Siegener Maschinenbau G.m.b.H.: See—
Rotter, Friedrich; and Hanke, Horst, 3,670,550.
Sieger, George Madison; Krueger, James Elwood; and Barringer, William Charles, to American Cyanamid Company. Aluminum calcium gluconate complex of tetracycline antibiotic for parenteral use. 3,642,991, 2-15-72, Cl. 424-227.
Sieger, Maurice Paul, to United Engineering and Foundry Company. Casting apparatus with means for removing ingot on bottom mold element. 3,640,334, 2-8-72, Cl. 164-269.
Siegerist, Walter L., to Meeco, Inc. Adjustable guide holder assembly. 3,706,214, 12-19-72, Cl. 72-99,000.
Siegfried Aktiengesellschaft: See—
Ritschel, Wolfgang A.; Fischer, Johanna; Jahn, Ulrich; and Wagner-Jauregg, Theodor, 3,639,623.
Siegfried, Edward C.; Harwell, Conner J.; and Murphy, Shields; deceased (by Friley, Paul B.), to Dickey, W. S., Clay Manufacturing Company. Apparatus for ram forming monolithic plastic articles. 3,677,687, 7-18-72, Cl. 425-457,000.
Siegfried, Hansen, to Hughes Aircraft Company. Gravity gradient meter. 3,668,932, 6-13-72, Cl. 73-382,000.
Siegfried, Raithe. Method to measure mirror deflection. 3,690,770, 9-12-72, Cl. 356-152,000.
Siegfried, Sommer: See—
Lederer, Michael; and Siegfried, Sommer, 3,696,085.
Siegfried, William: See—
Miller, Aaron; and Siegfried, William, 3,645,705.
Sieghartner, Leonard J., to Roth, Roy E., Company. Liquid booster device. 3,661,474, 5-9-72, Cl. 415-143.
Sieghartner, Leonard J., to Roth, Roy E., Company. Cooling and lubricating system for bearings. 3,690,410, 9-12-72, Cl. 184-6,280.
Siegl, Donald C., to General Motors Corporation. Infrared surface heating unit. 3,646,321, 2-29-72, Cl. 219-464.
Siegle, Heinz: See—
Duerr, Dieter; and Siegle, Heinz, 3,657,346.
Rohr, Otto; Deber, Ludwig; Dittich, Volker; and Siegle, Heinz, 3,652,770.
Sieglar, Edouard Horace, Jr., to Cary Instruments. Radiation entrapment, multi-reflection Raman sample cell employing a single concave mirror. 3,704,955, 12-5-72, Cl. 356-244,000.
Sieglar, Manny: See—
Hartman, William A., Jr.; and Sieglar, Manny, 3,679,372.
Sieglinger, John C.: See—
Buonsante, John J.; Freericks, Lambert; Haarmann, Howard J.; and Sieglinger, John C., 3,697,702.
Siegmund, Robert L., to Brothers' Metal Products, Inc. Produce slicing apparatus. 3,685,560, 8-22-72, Cl. 146-124,000.
Siegmund, Wolfgang; and Wissinger, Hans, to Siemens Aktiengesellschaft. Holder for mass-produced miniature electrical components, especially semiconductor members. 3,650,430, 3-21-72, Cl. 220-23,8.
Siegmund, John M.: See—
Smith, Burton F. B.; and Siegmund, John M., 3,656,657.
Siegrist, Adolf Emil: See—
Ackermann, Franz; Duennenberger, Max; and Siegrist, Adolf Emil, 3,649,623.
Maeder, Erwin; Anliker, Rudolf; Schmid, Karl; and Siegrist, Adolf Emil, 3,650,973.
Maeder, Erwin; Anliker, Rudolf; Schmid, Karl; and Siegrist, Adolf Emil, 3,666,683.
Maeder, Erwin; and Siegrist, Adolf Emil, 3,679,669.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; and Guglielmetti, Leonardo, to Ciba Limited. Methene stilbenyl-1,3,4-oxadiazole derivatives. 3,642,783, 2-15-72, Cl. 260-240.
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Siegrist, Adolf Emil; Maeder, Erwin; Liechti, Peter; and Guglielmetti, Leonardo. Bis-oxazoles. 3,687,880, 8-29-72, Cl. 260-240,00d.
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Siegrist, Emil: See—
Liechti, Peter; Maeder, Erwin; Guglielmetti, Leonardo; and Siegrist, Hans, 3,682,900.
Siegrist, Hans: See—
Entschel, Roland; Mueller, Curt; and Siegrist, Hans, 3,634,389.
Siegwart, Emil. Apparatus for helically winding strip into a lock-seamed pipe or tube. 3,651,677, 3-28-72, Cl. 72-50.
Siegwart, Robert V., to Heppenstall Company. Tilttable lifting tongs. 3,680,907, 8-1-72, Cl. 294-103,00g.
Sieja, James B., to Du Pont de Nemours, E. I., and Company. 1-(1-Alkenyl)bicyclo[1.1.0] butanes and their polymers. 3,661,875, 5-9-72, Cl. 260-85,5.
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Siekierski, Jacques, to ITAP S/A-Industria Tecnica de Artefatos Plasticos Rua Prof. Celestino Bourroul. Method of manufacture of plastic bags and the improved bags resulting therefrom. 3,680,769, 8-1-72, Cl. 229-58,000.
Siellaff, Ernst A., to Collins Radio Company. Vehicle maneuver indicator. 3,706,136, 12-19-72, Cl. 33-1,000.
Siellaff, Ulrich, to Air Reduction Company, Incorporated. Metering valve. 3,642,026, 2-15-72, Cl. 137-525.
Siellaff, Ulrich, to Airco, Inc. Pneumatic suction system. 3,659,605, 5-2-72, Cl. 128-276.
Siemag Siegener Maschinenbau, G.m.b.H.: See—
Bretschneider, Erich, 3,675,455.
Bretschneider, Erich J. F. E., 3,643,488.
Rotter, Friedrich, 3,693,397.
Siemen & Hirsch mbH: See—
Hagemann, Walter, 3,649,131.
Segebrecht, Udo, 3,702,745.
Segebrecht, Udo, 3,707,337.
Siemens & Halske Aktiengesellschaft: See—
Heywang, Walter, 3,704,427.
Toussaint, Hans-Norbert, 3,652,859.
Siemens Aktiengesellschaft: See—
Albus, Peter, 3,634,133.
Albus, Peter, 3,676,126.
Amberg, Hans-Ulrich, 3,652,995.
Appelt, Gunther, 3,652,890.
Arlt, Manfred; Dathe, Joachim; and Guckel, Helmut, 3,694,708.
Arndt, Heinz-Herbert; Schadel, Jurgen; and Muller, Dieter, 3,633,076.
Bachner, Alfred; Schneider, Karl; Ertel, Martin; and Schraml, Erika, 3,636,243.
Bahr, Alex; and Lange, Gerhard, 3,651,440.
Bahr, Alex; and Peche, Gerhard, 3,676,743.
Bahr, Alex; and Peche, Gerhard, 3,691,428.
Bardahl, Nils, 3,650,940.
Bauer, Franz; Besemer, Karl Friedrich; and Kinner, Gotthard, 3,676,776.
Bauerlein, Rudolf; and Uhl, Dieter, 3,691,376.
Baum, Wilhelm, 3,647,491.
Baum, Wilhelm, 3,650,782.
Baumgartner, Heinrich, 3,688,272.
Bayati, Abutorab, 3,634,852.
Beer, Heinz, 3,683,134.
Behn, Reinhard, 3,651,548.
Behn, Reinhard; Preissinger, Karl-Heinz; and Simson, Reiner, 3,665,268.
Behn, Reinhard; Gottlob, Heinrich; Haid, Hans; Hoyler, Gerhard; and Kessler, Hartmut, 3,670,378.
Behne, Ernst-August; and Fleer, Otto, 3,650,033.
Bensel, Joachim, 3,662,263.
Bergstrom, Lennart S. E., 3,633,479.
Bernt, Paul, 3,652,856.
Biebach, Erwin, 3,636,238.
Blank, Gunter; and Kramer, Erwin, 3,633,344.
Blaschke, Felix; and Hutter, Gerhard, 3,636,459.
Bochmann, Karlheinz, 3,665,395.
Bock, Helmut-Joachim; and Sennefelder, Anton, 3,705,274.
Bodlaj, Viktor, 3,668,547.
Bosch, Werner; and Kobler, Ulrich, 3,701,066.
Brandstaetter, Omri, 3,654,114.
Brandt, Fritz; and Ernst, Wolfram, 3,665,510.
Brandt, Fritz; Ernst, Wolfram; and Voegtlen, Dieter, 3,685,018.
Braumann, Gundokar; Klor, Walter; and Huber, Albert, 3,670,272.
Braun, Dieter; and Heinemann, Klaus, 3,678,270.
Braun, Wolfgang, 3,652,394.
Bredtschneider, Walter, 3,682,772.
Brehm, Herbert, 3,681,646.
Bringe, Wolfgang; Querfurth, Eberhard; Schanbacher, Hans-Albr.; Seiberth, Hans-Jurgen; and Vieser, Wolfgang, 3,662,304.
Buschmann, Klaus; and Meyer, Walter, 3,636,522.
Dames, Heinz; and Furtwaengler, Gerhard, 3,651,294.
Dangschat, Rainer H., 3,646,424.
Denk, Hans; and Habrich, Reiner, 3,677,999.
Diepers, Heinrich; and Schmidt, Otto, 3,689,388.
Dietrich, Manfred; Eger, Helmut; Neubert, Eckart; and Kruger, Wolfgang, 3,689,332.
Dietz, Kurt, 3,683,223.
Dietze, Wolfgang, 3,686,378.
Dollgast, Walter, 3,679,595.
Dorsch, Gerhard; and Wagnerberger, Wolfgang, 3,683,340.
Duck, Wolfgang, 3,668,320.
Ebisch, Martin, 3,678,394.
Eckert, Georg; and Ciriack, Gunther, 3,697,321.
Eger, Helmut, 3,642,548.
Eger, Helmut, 3,668,774.
Egger, Viktor; Lill, Arnulf; and Metzendorf, Werner, 3,695,854.
Eggert, Heinz; and Schillmann, Ekkehard, 3,694,908.
Emeis, Reimer; Haus, Joachim; and Keller, Wolfgang, 3,650,700.

- Emeis, Reimer, 3,694,972.
Emels, Reimer, 3,705,567.
Engel, Walter; Flachsbarth, Dieter; and Schwarz, Hermann, 3,667,042.
Fahrbach, Kurt Erich, 3,675,192.
Feldtkeller, Ernst, 3,693,172.
Fendt, Alfons; and Maenicker, Eckart, 3,633,071.
Feucht, Hermann; and Korber, Ulrich, 3,689,889.
Finkhauser, Dieter; and Friese, Andre, 3,673,341.
Flachsbarth, Dieter, 3,644,760.
Flachsbarth, Dieter, 3,688,133.
Fleischhammer, Werner; and Kroos, Friedrich-Karl, 3,660,676.
Folkmann, Eduard; and Pammer, Erich, 3,658,585.
Fork, Kurt; and Fork, Werner, 3,704,961.
Freller, Helmut; and Obitz, Magdalena, 3,665,366.
Froehlich, Walter; and Lang, Walter, 3,706,851.
Ganser, Wolfgang, 3,650,826.
Gebel, Rudolf, 3,692,431.
Gerke, Peter; Rutkowski, Karl; and Bock, Helmut Joachim, 3,655,922.
Gerke, Peter; Rutkowski, Karl; Bock, Helmut; and Palsa, Helmut, 3,665,110.
Gerke, Peter; Baur, Hans; Rutkowski, Karl; Binder, Hans-Eugen; Palsa, Helmut; and Fabianke, Hartmut, 3,668,319.
Grabmaier, Josef, 3,649,351.
Grabmaier, Josef, 3,650,822.
Gramer, Gottfried, 3,658,485.
Gramer, Gottfried; and Wittrowsky, Gunter, 3,666,626.
Grassman, Hans Christian, 3,681,558.
Grassmann, Hans-Christian; and Walther, Emil, 3,671,704.
Gratz, Josef, 3,643,042.
Greger, Karl, 3,673,537.
Grobe, Friedrich; and Weitz, Artur, 3,634,807.
Groschwitz, Eberhard, 3,636,358.
Gross, Franz; Kahl, Paul; and Wiehler, Wolf, 3,634,723.
Gross, Franz; Kahl, Paul; and Mammach, Peter, 3,646,485.
Gross, Franz, 3,707,646.
Gutbier, Heinrich, 3,644,148.
Haas, Guenther; and Reinhardt, Dieter, 3,671,873.
Haas, Werner, 3,633,588.
Haass, Guenther; and Kurek, Heinz, 3,705,361.
Hacke, Hans Jurgen, 3,680,209.
Haeusler, Jochen, 3,650,134.
Haeusler, Jochen; Marz, Gunther; and Seiffert, Helmut, 3,680,397.
Harand, Elmar; and Schabert, Hans-Peter, 3,666,623.
Hartmann, Lothar, 3,684,837.
Hermstein, Wolfgang; and Mollenbeck, Klaus, 3,675,123.
Hermstein, Wolfgang; Mollenbeck, Klaus; and Gericke, Gerhard, 3,681,688.
Heubeck, Erich, 3,653,125.
Heubeck, Erich, 3,662,465.
Heynisch, Hinrich, 3,678,326.
Heynisch, Hinrich; and Bittorf, Hannjoerg, 3,688,152.
Heywang, Hermann, 3,644,805.
Heywang, Walter; and Sirtl, Erhard, 3,674,552.
Hini, Paul, 3,675,636.
Hintringer, Otmar; Koniger, Walter; and Thorn, Jurgen, 3,641,351.
Hjort, Bo; and Berglund, Kurt K. H. A., 3,652,999.
Hobel, Peter, 3,633,568.
Hoetzel, Hubert; and Togel, Kurt, 3,694,635.
Hoffmann, Alfred; and Klein, Heinrich, 3,641,743.
Hoffmann, Manfred; and Schulze, Peter, 3,702,425.
Hofmann, Horst; and Katz, Helmut, 3,676,731.
Hofmann, Horst; Huebner, Erwin; and Katz, Helmut, 3,681,644.
Holtz, Joachim; and Schulze, Peter, 3,683,261.
Homberg, Heinz; and Weidner, Georg, 3,657,497.
Jakszt, Werner; and Schiele, Gert, 3,660,725.
Jakszt, Werner; Schiele, Gert; and Werner, Wolfgang, 3,665,255.
Kadow, Hermann, 3,648,262.
Kadow, Hermann, 3,707,704.
Kappius, Friedrich; Kristen, Reiner; Ott, Hanns; and Reinholdt, Heinz, 3,691,414.
Katerswerth, Hans-Peter, 3,691,688.
Katz, Helmut, 3,681,641.
Keller, Werner, 3,676,819.
Keller, Wolfgang, 3,644,151.
Keller, Wolfgang; and Berger, Gunther, 3,658,598.
Keller, Wolfgang, 3,660,044.
Keller, Wolfgang, 3,660,062.
Keller, Wolfgang, 3,671,703.
Keller, Wolfgang; and Reuschel, Konrad, 3,685,973.
Keller, Wolfgang, 3,688,006.
Keller, Wolfgang, 3,705,789.
Kessler, Claus, 3,654,409.
Kienzler, Eberhard, 3,678,502.
Kling, Adam, 3,687,071.
Koch, Christian, 3,665,677.
Koesler, Erwin, 3,683,342.
Kohlmüller, Hans; and Kuhl, Dieter, 3,679,485.
Kohlmüller, Hans; and Kuhl, Dieter, 3,681,145.
Kraft, Wolfgang, 3,702,946.
Krall, Heribert; Maag, Helmut; Herrmann, Otto; and Posl, Rudolf, 3,669,176.
Kraus, Friedrich, 3,654,110.
Kremser, Gunter, 3,704,870.
Kroos, Friedrich-Karl, 3,649,844.
Kroos, Friedrich-Karl, 3,681,614.
Kroos, Friedrich-Karl, 3,686,512.
Kruger, Joachim; Schabert, Hans-Peter; Schubert, Franz; and Weber, Robert, 3,691,011.
Leitgeb, Wilhelm, 3,699,365.
Leitgeb, Wilhelm, 3,704,402.
Leysieffer, Hans, 3,683,386.
Liska, Manfred; and Hubner, Klaus, 3,643,130.
Liska, Manfred; and Hubner, Klaus, 3,696,277.
Longo, Hans-Eberhard; Keller, Wolfgang; and Vogel, Carl-Heinz, 3,655,345.
Lugscheider, Walter; and Maier, Richard, 3,687,823.
Lugscheider, Walter, 3,691,031.
Lugscheider, Walter, 3,703,447.
Lutz, Karl-Anton, 3,671,674.
Maenicke, Eckart, 3,644,788.
Massar, Ernst; and Voigt, Hans, 3,691,491.
Matthaus, Gunther; and Schmidt, Fritz, 3,657,467.
Mentschel, Hellmut; and Henkel, Jahn-Joachim, 3,704,965.
Merkel, Hans; and Leibenzeder, Siegfried, 3,657,004.
Merkel, Hans; and Leibenzeder, Siegfried, 3,690,847.
Merkenschlager, Hans-Hermann, 3,675,318.
Merkenschlager, Hans-Hermann, 3,702,284.
Mertens, Willi, 3,647,611.
Meyer, Jurgen; and Sautter, Gerhard, 3,671,839.
Meyer, Jurgen; and Sautter, Gerhard, 3,671,840.
Michel, Eberhard; and Mayer, Hans, 3,637,008.
Moder, Hans-Ulrich; and Schaffer, Bernhard, 3,660,824.
Mollenbeck, Klaus; and Bensel, Joachim, 3,663,957.
Mollenbeck, Klaus, 3,679,974.
Mosch, Willi; Lutz, Gerhard; Putter, Lothar; Waldkotter, Erich; and Martin, Heinz, 3,702,954.
Muller, Alfred; and Fink, Arno, 3,679,401.
Muller, Erwin; and Bettini, Dino, 3,671,791.
Murawski, Kurt; Schmucker, Anton; Sensburg, Bernd; and Lanzendorfer, Josef, 3,662,667.
Nestler, Wolfgang, 3,692,575.
Neuffer, Ingemar; and Waldmann, Hermann, 3,683,262.
Obermaier, Georg; and Stangl, Anton, 3,680,806.
Oster, Helmut; Ecker, Ernst; Wichmann, Frank; Oppermann, Frank; and Joss, Erich, 3,631,724.
Oswald, Gernot; Wenzig, Wolfgang; and Ruchardt, Hugo, 3,657,609.
Ott, Hanns; and Latussek, Hanns Peter, 3,705,752.
Ott, Hans, 3,690,191.
Pammer, Erich; and Panholzer, Horst, 3,642,545.
Pammer, Erich, 3,657,007.
Pammer, Erich; and Heidegger, Peter, 3,681,132.
Paschke, Fritz, 3,693,056.
Paul, Bernt, 3,675,018.
Peche, Gerhard, 3,649,874.
Peche, Gerhard; and Seiffarth, Werner, 3,651,380.
Pelka, Horst, 3,638,102.
Pfisterer, Hermann; and Dietrich, Isolde, 3,694,270.
Picard, Karl-Heinz; and Beierer, Joachim, 3,679,909.
Pieper, Wolfgang, 3,636,393.
Platz, Winfried; and Erich, Kampf, 3,654,465.
Politycki, Alfred; Jecht, Ulrich; and Gullasch, Jurgen, 3,659,098.
Porner, Horst; Schabert, Hans-Peter; and Weber, Robert, 3,690,685.
Preissinger, Heinz; and Simson, Reiner, 3,648,339.
Rainer, Erich; and Kroger, Gerhard, 3,652,909.
Raithe, Kurt; and Rosenheinrich, Rene, 3,636,419.
Raithe, Kurt, 3,665,594.
Ramisch, Emil; and Schwan, Werner, 3,637,532.
Ramisch, Emil, 3,676,757.
Rauter, Gunther; and Wiessner, Edgar, 3,657,684.
Rauter, Gunther; and Wiessner, Edgar, 3,683,321.
Rehme, Hans; and Togel, Kurt, 3,651,303.
Reinhard, Behn; Heinrich, Gottlob; Hoyler, Gerhard; and Hartmut, Kessler, 3,693,244.
Reisch, Hans, 3,697,672.
Reuschel, Konrad; Platzoder, Karl; and Kursawe, Helga, 3,698,354.
Richter, Gerhard, 3,673,116.
Richter, Gerhard; Kroes, Magdalena; and Fietzsche, Angelika, 3,674,710.
Rimkus, Hans, 3,674,586.
Rohloff, Ebbe; and Lorenz, Richard, 3,647,926.
Rosch, Helmut; Neburg, Herbert; and Schlenz, Erich, 3,689,858.
Ross, Dieter, 3,652,161.

- Samberger, Konrad; Hruschka, Ulrich; and Greger, Karl, 3,636,370.
 Schabert, Hans-Peter, 3,677,892.
 Schabert, Hans-Peter, 3,697,372.
 Schädlich, Helmut; and Schembs, Wolfgang, 3,690,967.
 Schafer, Hans, 3,701,871.
 Scharf, Hans; Poplat, Gerhard; and Steinberg, Eckhard, 3,657,793.
 Scharnowitz, Eckhart, 3,665,424.
 Scheibel, Karl-Heinz; and Holzer, Wilhelm, 3,659,235.
 Schembs, Wolfgang, 3,679,495.
 Scherbaum, Friedrich, 3,643,131.
 Schering, Hans, 3,681,929.
 Schettler, Kurt, 3,655,207.
 Schettler, Kurt, 3,698,726.
 Schiewek, Peter; and Krempfer, Dieter, 3,664,217.
 Schlichte, Max, 3,686,442.
 Schlichte, Max, 3,688,049.
 Schmid, Rudolf, 3,637,504.
 Schmidtke, Martin; Ruttenauer, Winfried; Penzl, Reinhold; and Vollmer, Brigitte, 3,646,305.
 Schon, Siegfried, 3,678,207.
 Schonhuber, Max-Josef, 3,702,911.
 Schonwald, Siegfried, 3,659,955.
 Schreiner, Horst; and Fidos, Henryk, 3,642,523.
 Schreiner, Horst; and Fidos, Henryk, 3,692,578.
 Seiter, Hartmut, 3,655,439.
 Siegmars, Wolfgang; and Wissinger, Hans, 3,650,430.
 Siglow, Joachim, 3,663,834.
 Sirtl, Erhard; and Seiter, Hartmut, 3,653,991.
 Soldner, Richard Ernest, 3,693,414.
 Spenke, Hans, 3,658,643.
 Speth, Winfried; and Westermayer, Rudolf, 3,633,086.
 Speth, Winfried, 3,655,954.
 Stadler, Georg; and Vogt, Erwin, 3,674,694.
 Steggewentz, Hermann, 3,665,139.
 Stein, Karl-Ulrich, 3,656,106.
 Stein, Karl-Ulrich, 3,689,210.
 Steinlein, Hans-Wolfgang, 3,657,703.
 Steinlein, Hans-Wolfgang, 3,678,460.
 Strelow, Alfred; and Hascher, Klaus, 3,664,108.
 Sussmann, Erhard, 3,645,812.
 Tappener, Hermann, 3,676,763.
 Thomann, Helmut, 3,663,440.
 Thorn, Jürgen; and Moritz, Horst, 3,649,840.
 Thum, Egon, 3,670,187.
 Touchy, Wolfgang; and Bungenstab, Eckart, 3,705,825.
 Trattner, Herman; and Leibhard, Erich, 3,654,897.
 Trattner, Hermann; and Klar, Rudolf, 3,639,161.
 Tschunt, Edgar, 3,697,751.
 Ulmer, Wolfgang; and Rausch, Hermann, 3,634,775.
 Ungnadner, Friedrich, 3,648,029.
 Veith, Werner, 3,688,281.
 Veith, Werner, 3,707,657.
 Voelkl, Walter, 3,675,094.
 Vogelsberg, Dieter, 3,643,411.
 Vogl, Willibald; Kinzler, Johann; and Goessl, Gottfried, 3,681,612.
 Von Rauch, Moriz, 3,668,393.
 Vorbach, Gunther; and Koch, Harald, 3,643,596.
 Vukasovic, Lovro; and Hofmann, Rudolf, 3,643,405.
 Wahl, Hermann, 3,686,584.
 Waldmann, Hermann, 3,689,802.
 Weisser, Wolfgang, 3,705,340.
 Wenzig, Wolfgang, 3,679,948.
 Wenzig, Wolfgang, 3,694,705.
 Wessely, Hermann, 3,646,500.
 Wichmann, Arnold; and Amborn, Herbert, 3,631,590.
 Wickl, Rudolf, 3,642,381.
 Widmann, Dietrich; Kappelmeyer, Rudolf; Schluter, Kurt; and Steggewentz, Hermann, 3,644,134.
 Wiessner, Edgar, 3,659,253.
 Wildgruber, Otto, 3,644,926.
 Wilhelm, Wilhelm, 3,655,998.
 Winsel, August, 3,660,166.
 Winsel, August, 3,666,405.
 Wintzer, Manfred, 3,688,150.
 Wolf, Gerhard, 3,681,584.
 Wolff, Otto; and Krah, Dieter, 3,644,733.
 Zaubitzer, Richard, 3,665,200.
 Zeidler, Gunther, 3,643,174.
 Zott, Ronald; and Schleifer, Klaus, 3,651,264.
 Siemens-Electrogerate G.m.b.H.: See—
 Ackermann, Joseph, 3,678,245.
 Detterbeck, Heinrich; and Kaehs, Heinrich, 3,636,937.
 Siemens-Schuckertwerke Aktiengesellschaft: See—
 Keller, Wolfgang, 3,649,210.
 Oesterheld, Gerhard; and De Bucs, Eugen Szabo, 3,678,986.
 Rotter, Hans-Werner, 3,660,221.
 Siemensmeyer, Heinrich: See—
 Husten, Werner; and Siemensmeyer, Heinrich, 3,652,141.
 Siemetzki, Hans: See—
 Schippers, Heinz; and Siemetzki, Hans, 3,633,494.
 Siemetzki, Hans, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Process and apparatus for feeding solid particles under vacuum. 3,645,582, 2-29-72, Cl. 302-35.
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 Bongers, Hendrikus Johannus, 3,687,788.
 Don, Gunter, 3,704,883.
 Hugues, Walter, 3,655,316.
 Hutz, Gerhard; and Müller, Karl, 3,690,801.
 Siemssen, Ernst A.: See—
 Turner, Charles A.; and Siemssen, Ernst A., 3,699,726.
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 Brown, Milton G.; Ollinger, James C.; and Sienkiewicz, Joseph E., 3,665,177.
 Sieper, Horst; to Pierburg, A., Auto- und Luftfahrt-Geratebau KG. Diaphragm pump. 3,635,598, 1-18-72, Cl. 417-571.
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 Siepmann-Werke KG: See—
 Sobota, Herbert; Siepmann, Walter, Sr.; and Siepmann, Walter, Jr., 3,696,853.
 Sier-Bath Gear Co., Inc.: See—
 Kaufman, Samuel; De Rucker, Donald E.; and Conrad, Herbert A., 3,645,546.
 Sieracki, Frank W., to Ultronic Systems Corporation. Data retrieval and quote board multiplex system. 3,689,872, 9-5-72, Cl. 340-154.000.
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 Siergie, John M.: See—
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 Abkowitz, Stanley; Siergie, John M.; and Regan, Ronald D., 3,700,434.
 Sierichs, William C.: See—
 Moore, William P.; MacGregor, Rob R.; and Sierichs, William C., 3,642,439.
 Sierk, Raymond H.; and Sierk, Raymond W., to Atomic Swank Frank Corporation. Magazine for dispensing machine. 3,698,601, 10-17-72, Cl. 221-105.000.
 Sierk, Raymond W.: See—
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 Sieron, Richard L., to Dual-Lite Company. Fail-safe solid-state emergency lighting power supply and transfer circuit. 3,684,891, 8-15-72, Cl. 307-66.000.
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 Sierra Electric, Inc.: See—
 Yarbrough, William R., 3,651,296.
 Sierra Engineering Co.: See—
 Melzian, Aldon L., 3,648,389.
 Penny, William H., 3,631,540.
 Sierra, Gonzalo, to Ontario Research Foundation. Sterilization with glutaraldehyde. 3,697,222, 10-10-72, Cl. 21-54.00a.
 Sierra, Hugh M., to International Business Machines Corporation. Apparatus and method for obtaining the reciprocal of a number and the quotient of two numbers. 3,648,038, 3-7-72, Cl. 235-164.
 Sierra Pacific Industries: See—
 Coffelt, Sheldon L.; Allen, Paul R.; and Crook, John B., 3,631,976.
 Sierra, Rafael B. Biopsy needle with eccentrically-mounted cutting tip. 3,705,577, 12-12-72, Cl. 128-2.00b.
 Sierra Research Corporation: See—
 Michnik, Lewis; and Tapply, William G., 3,665,321.
 Potter, Basil E.; Bosworth, Theodore K.; Chisholm, John P.; and Cadzow, James A., 3,659,085.
 Potter, Basil E., 3,660,844.
 Sierracin Corporation, The: See—
 Armstrong, Ramsey C., 3,661,686.
 Wood, Edward C., 3,635,640.
 Siesennop, W. Wayne; Gibbs, Norman E.; and Bartz, Edward S., to Rex Chainbelt Inc. Hydraulic pump or motor. 3,695,147, 10-3-72, Cl. 91-498.000.
 Sieson, Roy C., Jr.: See—
 Longshaw, William J.; Sieson, Roy C., Jr.; and Ridenour, James, 3,687,167.
 Sietmann, Vernon H. Auxiliary roof structure for grain drying bins. 3,686,802, 8-29-72, Cl. 52-15.000.

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 Sievenpiper, Ward, to A-T-O Inc. Rod wiper. 3,655,204, 4-11-72, Cl. 277-24.
 Sievers, Carl, Firma: See—
 Boving, Egon, 3,657,907.
 Sievers, David L.: See—
 Mundy, Arthur; and Sievers, David L., 3,666,335.
 Sievers, Robert E. Rare earth complexes as nuclear magnetic resonance shift reagents. 3,700,410, 10-24-72, Cl. 23-230.00r.
 Siewert, John F.: See—
 Bechman, William H.; Lott, Walter E.; and Siewert, John F., 3,660,914.
 Sifniades, Stylianos: See—
 Honjoh, Masao L.; and Sifniades, Stylianos, 3,637,816.
 Pisanchyn, John; Fuhrmann, Robert; Sifniades, Stylianos; and Tunick, Allen Abraham, 3,681,460.
 Sifri, Elie C.; and Wu, Steve W. H., to Cascade Corporation. Spring-loaded seal with symmetrical cross section. 3,653,670, 4-4-72, Cl. 277-164.
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 Sigagooose, Glen. Model airplane and method of assembling same. 3,699,706, 10-24-72, Cl. 46-78.000.
 Sigerist, Carl, & Cie Schaffhausen: See—
 Bolli, Hanspeter, 3,645,042.
 Sigg, Hans-Peter: See—
 Bollinger, Pietro; Harri, Eugen; and Sigg, Hans-Peter, 3,655,880.
 Sigg, Hans-Peter; and Stoll, Christian, to Sandoz Ltd.; a/k/a Sandoz A.G. Epoxides. 3,651,007, 3-21-72, Cl. 260-348.
 Sigg, Hans-Peter; and Stoll, Christian, to Sandoz Ltd.; a/k/a Sandoz A.G. Epoxides. 3,659,005, 4-25-72, Cl. 260-348.
 Siggel, Erhard; Kersten, Hilde; and Meyer, Gerhard, to Glanzstoff A.G. Aromatic bis-(2,4-dihydroxypyridine) compounds. 3,682,929, 8-8-72, Cl. 260-288.00r.
 Siggers, Reuben A. Insect swatter. 3,648,402, 3-14-72, Cl. 43-137.
 Siggins, James E., to Sterling Drug Inc. Esters of substituted glyoxylic acids. 3,657,325, 4-18-72, Cl. 260-483.
 Sigsson, Jack J. Arm stabilizing device for golfers. 3,658,345, 4-25-72, Cl. 273-189.00a.
 Sigiyama, Hiroshi; Ikeda, Takuo; and Itani, Takashi, to Sumitomo Chemical Company, Ltd. Reactive phthalocyanate dyes containing an aryureamethylene group. 3,647,827, 3-7-72, Cl. 260-372.
 Sigl, Jon D. Ski with inclined boot platform. 3,675,938, 7-11-72, Cl. 280-11.35c.
 Sigl, Jon D. Portable arrow checking device. 3,700,940, 10-24-72, Cl. 310-66.000.
 Siglin, David L.: See—
 Ehrhardt, Gerry H.; Reeves, Ronald L.; and Siglin, David L., 3,653,944.
 Sigloch, Walter, Grossbuchbinderei: See—
 Brenner, Hermann, 3,633,727.
 Brenner, Hermann, 3,649,414.
 Siglow, Joachim, to Siemens Aktiengesellschaft. Circuit arrangement for level supervision in transmission systems with frequency-or phase modulation. 3,663,834, 5-16-72, Cl. 307-235.
 Sigma Engineering Service, Inc.: See—
 Bryner, Ernest J.; and Wolcott, Gard W., 3,633,634.
 Sigma Instruments, Inc.: See—
 Beling, Thomas E., 3,643,134.
 Sakatos, Michael, 3,707,690.
 Sigman Industries, Inc.: See—
 Weagant, William D., 3,641,253.
 Sigmatex AG: See—
 Weman, Per Olaf, 3,698,048.
 Sigmon, Bernard E., to Sperry Rand Corporation. Temperature stable negative resistance diode coaxial cavity energy converter operating in an anti-resonant mode. 3,644,843, 2-22-72, Cl. 331-101.
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 Sigmund, Franck, to Industriele Onderneming Wavin N.V. Thermally insulated pipe. 3,685,546, 8-22-72, Cl. 138-141.000.
 Sigmund, Gerhard, to Daimler-Benz Aktiengesellschaft. Slide shoe structures of synthetic plastic material for sliding roofs of motor vehicles. 3,671,997, 6-27-72, Cl. 16-93.000.
 Signal Chemical Company, mesne: See—
 Anderson, John E.; Parish, Clyde E.; and Ross, George H., 3,655,719.
 Signal Companies, Inc., The: See—
 Anderson, John E.; Parish, Clyde E.; and Ross, George H., 3,632,624.
 Signal Oil and Gas Company: See—
 Kasperik, Archibald S.; and Fuchs, Herbert A., 3,655,621.
 Kipps, Harry J.; and Doniguan, Thaddeus M., 3,692,650.
 Signal-Stat Corporation, mesne: See—
 Kaldor, Robert M.; Borruso, Joseph V.; and Goldbaum, Elliott, 3,676,834.
 Signatron, Inc.: See—
 Bello, Phillip A.; and Salwen, Howard C., 3,689,841.
 Jackson, Charles L., 3,701,019.
 Signet Controls, Inc.: See—
 Davis, Billy E.; and Gilliam, Paul V., 3,643,489.
 Signetics Corporation: See—
 Allison, David Frank, 3,660,732.
 Ball, James V., 3,659,224.
 Camenzind, Hans R., 3,663,223.
 Camenzind, Hans R., 3,668,540.
 Campbell, Eugene H.; and Kane, James F., 3,654,623.
 Carlson, Heinz F.; Isaac, George L.; and Mosely, Graham H., 3,687,345.
 Dalen, Merle L., 3,688,678.
 Davis, Stanley Paul, 3,696,274.
 Hearn, William E., 3,668,538.
 Isaac, George L.; Kingsbury, Richard F.; and Surak, John G., 3,701,021.
 Kan, David T., 3,654,490.
 Kan, David T., 3,668,430.
 Kane, James F., 3,697,775.
 Kendall, Larry J., 3,703,650.
 Kleitman, David; Russell, Lewis K.; and Grebene, Alan B., 3,669,666.
 Kocsis, Joseph; and Cauge, Thomas Peter, 3,675,092.
 Lenss, Andris; and Kirtan, Lionel A., 3,669,431.
 Mattis, John A., 3,683,270.
 Read, Benjamin Hays; and Black, Rexford E., 3,703,458.
 Russell, Lewis K.; and Banks, James L., 3,676,742.
 Russell, Lewis Keith, 3,701,974.
 Suverkropp, Claus P. J., 3,687,172.
 Signode Corporation: See—
 Angarola, Barry R., 3,648,739.
 Angarola, Barry R.; and Nix, Robert J., 3,654,033.
 Beach, John R., 3,636,592.
 Frey, Robert J., 3,679,519.
 Howard, Frank C., 3,653,299.
 Lems, Peter, 3,675,388.
 Meier, William A., 3,653,334.
 Melsek, Norbert J., 3,675,765.
 Plunkett, Larry D.; and Massion, Robert J., 3,662,777.
 Vilcins, Ilmar J.; and Frey, Robert J., 3,669,799.
 Wolfberg, Robert L.; and Bojan, Paul W., 3,653,117.
 Signor, Gary R.: See—
 Artz, Walter M.; Cornelius, Kenneth R.; Olson, John W.; Signor, Gary R.; and Siojkowski, Francis E., 3,641,505.
 Signorelli, Robert A.: See—
 Petrasek, Donald W.; Signorelli, Robert A.; Weeton, John W.; and Beremand, Gerald B., 3,653,882.
 Signouret, Jean-Baptiste: See—
 Esclamadon, Christian; Labat, Yves; and Signouret, Jean-Baptiste, 3,706,806.
 Sigoda, Victor J., to Man-Sew Corporation. Seam finishing apparatus. 3,659,537, 5-2-72, Cl. 112-217.
 Sigr Elektrographit Gesellschaft mit beschränkter Haftung: See—
 Ernst, Hans; Semmler, Jürgen; Vohler, Otto; and Rubisch, Ottmar, 3,659,139.
 Sigrist, Hugo, to Werkzeugmaschinenfabrik Oerlikon-Bührle AG. Loading tray for a rocket. 3,640,179, 2-8-72, Cl. 89-1.801.
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 Sigworth, Harrison W.: See—
 Smith, Calvin S., Jr., 3,640,850.
 Sih, Charles J., to Wisconsin Alumni Research Foundation. Method for preparing L-dopa. 3,671,397, 6-20-72, Cl. 195-29.000.
 Sihara, Masao: See—
 Kamio, Kosaku; Kuwana, Motoyuki; Takahashi, Atsushi; and Sihara, Masao, 3,660,332.
 Sihvo, Tuomo Jorma Heikki. Float for seamarks, buoys, pontoons and the like. 3,680,160, 8-1-72, Cl. 9-8.000.
 Siiberg, Hemming G., to Wagner Electric Corporation. Voltage and load independent flasher unit. 3,705,318, 12-5-72, Cl. 307-132.00t.
 Siimes, Timo. Fire extinguisher. 3,662,836, 5-16-72, Cl. 169-31.
 Siina, Katumi: See—
 Otake, Naokichi; Yamanobe, Yutaka; Siina, Katumi; and Usuba, Kunikatsu, 3,644,862.
 Siirak, Ruudi: See—
 Hessen, Petter; and Siirak, Ruudi, 3,639,872.
 Sijbring, Pieter Herman, to Instituut Voor Bewaring en Verwerking van Landbouwprodukten. Method and apparatus for thermally treating vegetative materials. 3,636,939, 1-25-72, Cl. 126-271.2.
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Kinneman, William P., Jr.; and Uram, John R., Jr., 3,639,344.
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- Sikes, Robert L. F. Gun holding device. 3,706,403, 12-19-72, Cl. 224-1.00r.
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Hall, Richard H.; Roberts, Carleton W.; Sikkema, Andrew J.; and Lawson, Junior J., 3,641,208.
- Sikkema, Eeme, to New Zealand Inventions Development Authority. The. Methods and means for the transportation of goods. 3,651,613, 3-28-72, Cl. 53-24.
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- Siklos, Gregory; and Rudden, James B., to Marbelite Company, Inc., The. Central traffic signal control. 3,670,302, 6-13-72, Cl. 340-40.000.
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Nilsson, Lars Olov; Liljegren, Nils Leo; and Victorin, Robert, 3,659,707.
- Sikorsky, Michael F., to Bell Telephone Laboratories, Incorporated. Multiple timing list arrangement. 3,633,181, 1-4-72, Cl. 340-172.5.
- Sikorsky, Michael Frank; and Voigt, Herman Ewald, to Bell Telephone Laboratories, Incorporated. Information filter and steering circuit. 3,632,889, 1-4-72, Cl. 179-27.
- Siklai, Anthony. Turn signal indicating system. 3,676,845, 7-11-72, Cl. 340-87.000.
- Silagy, Richard J., to Weatherhead Company, The. Combination brake warning switch and proportioning valve. 3,667,810, 6-6-72, Cl. 303-6.00c.
- Silas, Robert S., to Phillips Petroleum Company. Portable air pollution detector. 3,653,840, 4-4-72, Cl. 23-230.
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Pfeffer, Philip E.; and Silbert, Leonard S., 3,652,612.
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Kugler, Tibor; and Silbiger, Jakob, 3,649,189.
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Mendijs, Carl, Jr., 3,633,878.
- Silby, Harry, to Wire Sales Company. Treatment of waste sulfite liquor to avoid pollution, and method of making. 3,676,164, 7-11-72, Cl. 106-77.
- Silchenko, Ekaterina Ivanovna: *See*—
Nesterovsky, Vsevolod Vladimirovich; Khmel'nitsky, Julius Lazarevich; Karzhev, Vladimir Ivanovich; Silchenko, Ekaterina Ivanovna; Goncharova, Nina Vasilievna; Svirina, Valentina Petrovna; Maikova, Margarita Viktorovna; and Murashkina, Marfa Markovna, 3,649,96.
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Hartley, Roderick James; and Charters, George, 3,688,320.
- Siler AG: *See*—
Mischek, Hugo, 3,690,489.
- Siler, William J. Pool rink conversion kit. 3,639,921, 2-8-72, Cl. 4-172.11.
- Silfvast, William Thomas: *See*—
Klein, Marvin Bertrand; and Silfvast, William Thomas, 3,694,767.
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- Silhavy, Raymond J.: *See*—
Ford, Frederick M.; and Silhavy, Raymond J., 3,663,827.
- Silicon Technology Corporation: *See*—
Jones, Don R., 3,702,604.
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Raczynski, John R.; and Silkaitis, Mitch, 3,692,962.
- Silken, Howard. Doweling jig. 3,674,376, 7-4-72, Cl. 408-115.000.
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Krueger, Russell F.; Ritter, Harry W.; and Sill, Arthur D., 3,662,062.
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Loo, Madis Valdurevich; Sillaots, Argo Alexandrovich; and Kekhler, Jury-Eduard Khansovich, 3,651,543.
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Vogel, Paul W.; and Silliker, John H., 3,705,813.
- Silliman, Robert M., to Electronics Research, Inc. Omnidirectional tower supported antenna. 3,665,479, 5-23-72, Cl. 343-726.
- Sillion, Bernard: *See*—
Rabilloud, Guy; Sillion, Bernard; and De Gaudemaris, Gabriel, 3,635,892.
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- Rabilloud, Guy; Sillion, Bernard; and De Gaudemaris, Gabriel, 3,678,005.
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- Sills, Robert E.: *See*—
Sickels, David W.; and Sills, Robert E., 3,645,877.
- Sills, Stanley Albert; and Foster, Hugh, to Imperial Chemical Industries, Limited. Polyamides containing phosphonamide. 3,635,910, 1-18-72, Cl. 260-78.
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Alfano, Marco, 3,675,873.
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Carignano, Mario, 3,642,356.
- Riedel, Wolfgang, 3,662,971.
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- Silva, Ren Narcisco. Continuous clarification-filtration method. 3,642,618, 2-15-72, Cl. 210-44.
- Silva, Ronald L. Process of infusing liquid into settable porous material. 3,683,760, 8-15-72, Cl. 94-24.000.
- Silva, Ruben. Magnetic toy. 3,675,365, 7-11-72, Cl. 46-239.000.
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Olson, Mark W.; and Silva, Walter F., 3,635,623.
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Conforti, John W.; and Silvagi, Joseph, 3,665,912.
- Silvan, Manuel D. Door stop means. 3,661,413, 5-9-72, Cl. 292-238.000.
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Barnett, Morris A.; and Silver, Alexander, 3,677,612.
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- Silver, Arthur E., to Power Designs, Inc. Multi-range regulated DC power supply. 3,699,352, 10-17-72, Cl. 307-75.000.
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Eager, George S., Jr.; Silver, David A.; and Katz, Carlos, 3,673,307.
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Cruger, Robert W.; and Silver, Floyd G., 3,695,559.
- Niemkiewicz, Ignatius John; Reinemuth, George H.; and Silver, Floyd G., 3,702,177.
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Byford, Derek Clark; and Silver, Howard Bernard, 3,697,427.
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Cheney, Paul E., 3,685,514.
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Zackheim, Eli A., 3,669,310.
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Alpha, Smith, 3,684,709.
- Silver, Norman C.: *See*—
Jacobson, Calvin L.; Morken, Robert E.; and Silver, Norman C., 3,682,401.
- Silver Recovery Equipment Pty., Limited: *See*—
Zeleny, Victor Vaclav; and Zeleny, Peter Charles, 3,655,175.
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- Silver, Robert Simpson, to Weiry Westgarth Limited. Multiple-stage flash evaporator. 3,684,662, 8-15-72, Cl. 202-173.000.
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Luedicke, Eduard; and Silver, Robert Steven, 3,675,134.
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- Silver, Spencer Ferguson. Acrylate copolymer microspheres. 3,691,140, 9-12-72, Cl. 260-78.500.
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- Silvera, Isaac F.; and Vredevoe, Lawrence A., to North American Rockwell Corporation. Phonon generation handling and detection. 3,693,104, 9-19-72, Cl. 330-5.500.
- Silvera, Raffaele Vittorio. Breakerless ignition system for an internal combustion engine. 3,650,260, 3-21-72, Cl. 123-148.
- Silverberg, Carl G., to American Optical Corporation. All-ceramic glass making system. 3,669,435, 6-13-72, Cl. 263-40.00r.
- Silverberg, Morton, to Xerox Corporation. Enclosed migration imaging system. 3,674,475, 7-4-72, Cl. 96-1.300.
- Silverberg, Morton, to Xerox Corporation. Methods and apparatus for operating paired coronons of opposite polarity. 3,675,011, 7-4-72, Cl. 250-49.52c.
- Silverglate, Jack. Apparatus for producing a rocking motion. 3,638,248, 2-1-72, Cl. 5-105.
- Silverman, Arthur A.: *See*—
Silverman, Lee H.; Silverman, Arthur A.; and Gaworski, Edward T., 3,691,583.
- Silverman, Arthur A. Coupling. 3,694,011, 9-26-72, Cl. 287-104.000.
- Silverman, Bernard. Method of imparting a false twist to a thermoplastic ribbon. 3,681,912, 8-8-72, Cl. 57-157.0ts.
- Silverman, Bernard A.: *See*—
Nelson, Loren D.; and Silverman, Bernard A., 3,659,785.
- Silverman, Daniel: *See*—
Johnson, Everett A.; and Silverman, Daniel, 3,677,465.
- Silverman, Daniel, to Amoco Production Company. Tethered platform flotation. 3,654,886, 4-11-72, Cl. 114-5.
- Silverman, Daniel. Method and apparatus for evertng a flexible probe into a cavity. 3,669,099, 6-13-72, Cl. 128-2.000.
- Silverman, Daniel, to Pan American Petroleum Corporation. Method of increasing size of underground nuclear chimney. 3,677,342, 7-18-72, Cl. 166-247.000.
- Silverman, Daniel, to Amoco Production Company. Recording elastic-wave phase holographic data. 3,678,452, 7-18-72, Cl. 340-3.00r.
- Silverman, Daniel; and Treitel, Sven, to Amoco Production Company. Method and apparatus for the analysis of seismic records. 3,680,040, 7-25-72, Cl. 340-15.50r.
- Silverman, Herbert P.; and Giarrusso, Gino A., to TRW Inc. Method for preparing sensors for detecting reducing vapors. 3,676,188, 7-11-72, Cl. 8-24-70.
- Silverman, Herbert William, to RCA Corporation. Checking an automatic testing system. 3,665,504, 5-23-72, Cl. 324-26.000.
- Silverman, Jack J. Protective shoe insert. 3,638,336, 2-1-72, Cl. 36-44.
- Silverman, Lee H.; Silverman, Arthur A.; and Gaworski, Edward T., to General Wire Spring Company. Sewer augering machine. 3,691,583, 9-19-72, Cl. 15-104.35n.
- Silverman, Ralph. Rapid sequential information record, storage and playback system. 3,654,625, 4-4-72, Cl. 340-173.
- Silverman, Ralph H. Toothpick device. 3,672,378, 6-27-72, Cl. 132-93.000.
- Silverson Machines Limited: *See*—
Love, Gordon, 3,632,227.
- Silverstein, Joseph J., to Engine Power Corporation. Sealant for pneumatic tires. 3,676,381, 7-11-72, Cl. 260-17.40r.
- Silverstein, Martin S.: *See*—
Stiefel, Ludwig; Silverstein, Martin S.; and Kowalick, James F., 3,706,278.
- Silverstein, Ronald M., to Drew Chemical Corporation. Corrosion inhibiting processes and compositions of aliphatic amines and diquaternary diamines. 3,687,859, 8-29-72, Cl. 252-180.000.
- Silverstein, Samuel; and Niemiec, Stanley. Method and apparatus for liquid curtain coating of only portions of advancing articles. 3,632,356, 1-4-72, Cl. 107-1.
- Silverstone, Gerald Alfred, to Wolf, Victor, Limited. Polymerised fatty acids and their esters. 3,661,956, 5-9-72, Cl. 260-407.
- Silverthorne, Clarence B., to United States of America, Army. Warhead section coupler. 3,641,937, 2-15-72, Cl. 102-56.
- Silverwater, Bernard F.: *See*—
Pall, David B.; and Silverwater, Bernard F., 3,696,933.
- Silvestri, Anthony J.: *See*—
Mikovsky, Richard J.; Silvestri, Anthony J.; and Smith, Robert L., 3,663,426.
- Silvestri, George J., Jr., to Westinghouse Electric Corporation. Low pressure end diffuser for axial flow elastic fluid turbines. 3,690,786, 9-12-72, Cl. 415-121.000.
- Silvestri, Michael A., to Sun Chemical Corporation. Process for the preparation of phosphoryl triamide. 3,685,974, 8-22-72, Cl. 23-357.00n.
- Silvestri, Victor J.: *See*—
Green, James M., II; Sedgwick, Thomas O.; and Silvestri, Victor J., 3,661,636.
- Silvestroni, Piergiorgio: *See*—
Sicari, Francesco; Perazzoni, Pierluigi; and Silvestroni, Piergiorgio, 3,632,558.
- Silvestrov, Nikolai Demyanovich: *See*—
Silvestrov, Sergei Nikolaevich; Sinichkin, Moisei Mikhailovich; Shirokov, Grigory Ivanovich; Soloviev, Jury Filippovich; Silvestrov, Nikolai Demyanovich; and Amusin, Boris Zinovievich, 3,675,433.
- Silvestrov, Sergei Nikolaevich; Sinichkin, Moisei Mikhailovich; Shirokov, Grigory Ivanovich; Soloviev, Jury Filippovich; Silvestrov, Nikolai Demyanovich; and Amusin, Boris Zinovievich. Device for constructing mines. 3,675,433, 7-11-72, Cl. 61-84.000.
- Silvey, Elmer R. Saw chain grinding machine. 3,695,123, 10-3-72, Cl. 76-43.000.
- Silvia, Everett R.: *See*—
Litman, Bernard; and Silvia, Everett R., 3,698,776.
- Silvia, Everett R., to AMBAC Industries, Incorporated. Thrust retainer for spherical race ball bearing. 3,698,251, 10-17-72, Cl. 74-5.00r.
- Silvius, Arthur Aurelius Xaverius. Connecting construction for sheet members. 3,687,500, 8-29-72, Cl. 287-189.36d.
- Sim, Van M.: *See*—
Cuculis, John J.; Meyer, Howard G.; Sim, Van M.; and Sternberger, Ludwig A., 3,642,981.
- Sima, Constantin: *See*—
Schwartz, Robert; Manolache, Constantin; Tannenbaum, Marcel; Vasile, Gheorghe; Rey, Vasile; Sima, Constantin; and Cambureau, Aurel, 3,692,277.
- Simakura, Masao: *See*—
Murashige, Hidekichi; and Simakura, Masao, 3,637,189.
- Murashige, Hidekichi; Simakura, Masao; and Nakazawa, Kazuo, 3,673,754.
- Simard, Guy: *See*—
Lapointe, Yves Anselme; Simard, Guy; Emond, Henri; and Delisle, Pierre A., 3,637,254.
- Simboli, Joseph: *See*—
Zilius, Tadas; and Simboli, Joseph, 3,702,191.
- Simboli, Paul: *See*—
Mc Gaughey, Robert S.; and Simboli, Paul, 3,646,651.
- Simcom Corporation: *See*—
Levasseur, Joseph L., 3,660,641.
- Levasseur, Joseph L., 3,688,086.
- Simens Aktiengesellschaft: *See*—
Fritz, Robert; Beckh, Horst; and Torggler, Norbert, 3,636,267.
- Simeon, Raymond: *See*—
Cizek, Albert W., Jr.; Lerner, Irving; and Simeon, Raymond, 3,652,485.
- Simeth, Peter G.; and Seeley, Richard C., to Metrophysics, Inc. Electronic spirometer. 3,645,133, 2-29-72, Cl. 73-204.
- Simich, Emil: *See*—
Wognum, James N.; Simich, Emil; and Winkler, Alvin L., 3,672,436.
- Simjian, Luther G. Massaging device. 3,662,749, 5-16-72, Cl. 128-58.
- Simjian, Luther G. Massaging device driven by exercise apparatus. 3,670,723, 6-20-72, Cl. 128-64.000.
- Simkins, John W.: *See*—
De Vost, Valmore F.; and Simkins, John W., 3,706,229.
- Simko, Aladar O.: *See*—
Bishop, Irving N.; Mosher, Richard G.; and Simko, Aladar O., 3,696,798.
- Simm, Walter; and Muller, Rudolf, to Agfa-Gevaert Aktiengesellschaft. Apparatus for the electrographic recording of charge images. 3,673,598, 6-27-72, Cl. 346-74.0es.
- Simmen, Fred G., to Hall China Company. Manufacture of disposable ceramic dishes from high alkali pyrophyllite. 3,655,843, 4-11-72, Cl. 264-59.
- Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen-Kessel- und Waggonbau: *See*—
Pelz, Friedrich, 3,665,865.
- Simmler, Walter: *See*—

- Golitz, Hans Dietrich; Degener, Eberhart; Oertel, Gunter; Schmelzer, Hans-Georg; and Simmler, Walter, 3,657,303.
 Golitz, Hans Dietrich; and Simmler, Walter, 3,658,864.
 Golitz, Hans Dietrich; Merten, Rudolf; Noll, Walter; and Simmler, Walter, 3,663,586.
 Golitz, Hans Dietrich; and Simmler, Walter, 3,673,233.
 Golitz, Hans Dietrich; Degener, Eberhart; Oertel, Gunter; Schmelzer, Hans-Georg; and Simmler, Walter, 3,676,478.
 Simmler, Walter; and Steinbach, Hans-Horst, to Farbenfabriken Bayer Aktiengesellschaft. Permanent hair waving by artificially shaping with an epoxy-organo-silane. 3,687,606, 8-29-72, Cl. 8-127.510.
 Simon, Gerhard. Flowerpot. 3,683,549, 8-15-72, Cl. 47-34.000.
 Simmonds, Charles, and Trimcote Limited: *See—*
 Simmonds, Edwin Charles, 3,633,518.
 Simmonds, Edwin Charles, to Simmonds, Charles, and Trimcote Limited. Ovens. 3,633,518, 1-11-72, Cl. 107-55.
 Simmonds, Leonard B.; and Botts, John C., to Westinghouse Electric Corporation. Dynamoelectric machine with improved side fillers for coil retention. 3,679,926, 7-25-72, Cl. 310-214.000.
 Simmonds, Peter G.: *See—*
 United States of America, National Aeronautics and Space Administration, 3,662,604.
 United States of America, National Aeronautics and Space Administration, 3,702,532.
 Simmonds Precision Products, Inc.: *See—*
 Akeley, Lloyd T., 3,656,101.
 Akeley, Lloyd T., 3,702,910.
 Gamble, Ralph S., 3,706,864.
 Ingalls, Robert A., 3,662,613.
 Knight, John H., 3,700,864.
 Lamphere, David A.; and Stuart, Douglas E., 3,635,084.
 Lang, Walter T., 3,696,400.
 Sargent, Raymond W., 3,634,764.
 Simmonds Precision Products, Inc., *mesne: See—*
 Charbonneau, Wilson A., 3,641,967.
 Simmonds, Robert C., Jr.: *See—*
 Kyrtis, William T.; and Simmonds, Robert C., Jr., 3,697,204.
 Simmonds, Robert C., Jr.; and Gilbride, Andrew J., to USM Corporation. Molding machinery. 3,632,022, 1-4-72, Cl. 222-134.
 Simmonds, Silas E. Method and device for removing disk brake pistons. 3,648,352, 3-14-72, Cl. 29-427.
 Simmonds, Alfred E., Jr., to United Aircraft Corporation. Composite coating for the superalloys. 3,649,225, 3-14-72, Cl. 29-194.
 Simmonds, Bjorn Herman Olof, to Aktiebolaget Bofors. Device for a flare. 3,702,588, 11-14-72, Cl. 102-35.600.
 Simmons, Carl E.: *See—*
 Bathla, Pritam S.; and Simmons, Carl E., 3,677,334.
 Simmons, Clyde A.: *See—*
 Lunsford, Leslie E.; Simmons, Clyde A.; and Evans, William L., 3,699,664.
 Simmons, Dwane P.: *See—*
 Lynn, Ray E.; and Simmons, Dwane P., 3,656,637.
 Simmons, Edward C., to General Motors Corporation. Turbulence dampened float control. 3,643,681, 2-22-72, Cl. 137-429.
 Simmons, George A., to Owens-Illinois, Inc. Glass-ceramic articles having an integral compressive stress surface layer. 3,637,453, 1-25-72, Cl. 161-43.
 Simmons, James Almy; and Bell, Robert Joseph. Method for controlling stripe smut. 3,689,677, 9-5-72, Cl. 424-349.000.
 Simmons, John Ernest: *See—*
 Rand, Walter Leslie; and Simmons, John Ernest, 3,657,787.
 Rand, Walter Leslie; and Simmons, John Ernest, 3,671,158.
 Simmons, John Richard: *See—*
 Coutenay, Jerzy Leon; and Simmons, John Richard, 3,635,242.
 Neal, Francis John; Courtenay, Jerzy Leon; and Simmons, John Richard, 3,640,092.
 Westbury, Roy; and Simmons, John Richard, 3,667,344.
 Simmons, Kenneth G.: *See—*
 Rosinski, Edward J.; and Simmons, Kenneth G., 3,645,914.
 Simmons, Lovel R. Elevator control for earth moving apparatus. 3,646,693, 3-7-72, Cl. 37-8.
 Simmons, Marion I.: *See—*
 Adams, Anthony L.; Yearsley, Gerald A.; Simmons, Marion I.; and Yager, Billy P., 3,641,660.
 Simmons, Patricia L., to P & L Sales Incorporated. Contoured curler pad. 3,685,524, 8-22-72, Cl. 132-9.000.
 Simmons, Ronald L.: *See—*
 Rosher, Ronald; and Simmons, Ronald L., 3,697,341.
 Simmons, Todd S.: *See—*
 Lachowicz, Donald R.; Simmons, Todd S.; and Kreuz, Kenneth L., 3,657,349.
 Simmons, William J., to Communications Satellite Corporation. Electronically tunable matching circuit for circulators. 3,676,803, 7-11-72, Cl. 333-1.100.
 Simmons, William W., to TRW Inc. Method of an apparatus for generating ultra-short time-duration laser pulses. 3,701,956, 10-31-72, Cl. 331-94.500.
 Simms, Bernard B.: *See—*
 Delman, Alvin D.; Kovacs, Hanna N.; and Simms, Bernard B., 3,637,607.
 Simms, Bernard B.; Stein, Alvin A.; and Larosa, Charles N., to United States of America, Navy. Method of soil stabilization. 3,696,621, 10-10-72, Cl. 61-36.00r.
 Simms, Dudley V. Stable oscillator. 3,701,051, 10-24-72, Cl. 331-107.00r.
 Simms Group Research and Development Limited: *See—*
 Hodge, Peter Charles, 3,661,427.
 Simms, Harold J., Jr., to General Motors Corporation. Apparatus for generating an angularly displaceable magnetic field. 3,671,952, 6-20-72, Cl. 340-177.000.
 Simms, James B. Cam operated detachable carton handle. 3,674,300, 7-4-72, Cl. 294-31.200.
 Simms, James B. Detachable bottle handle. 3,679,253, 7-25-72, Cl. 294-31.200.
 Simms, James B. Cam operated detachable clamping carton handle. 3,692,346, 9-19-72, Cl. 294-31.00a.
 Simms, James S. Tensioning devices. 3,703,030, 11-21-72, Cl. 29-252.000.
 Simms, John A., to Du Pont de Nemours, E. I., and Company. Acrylic polymers containing epoxy radicals. 3,673,275, 6-27-72, Cl. 260-837.00r.
 Simms, John Robert: *See—*
 Fawdrey, Cecil Arthur; Simms, John Robert; Kenworthy, Derek; Roxburgh, Albert; and Hobbs, David, 3,683,141.
 Simms, Michael L.: *See—*
 Jacobus, Dwight W.; and Simms, Michael L., 3,640,088.
 Simms Motor Units Limited: *See—*
 Price, Frederick William; and Williams, Derek, 3,643,514.
 Skinner, Jack; and Whitehurst, George, 3,664,317.
 Simms, Robert A.: *See—*
 Sackinger, William M.; and Simms, Robert A., 3,673,457.
 Simms, Robert J.: *See—*
 Mander, Robert J.; Ramm, Duane E.; and Simms, Robert J., 3,643,812.
 Simoleit, Hartmut: *See—*
 Kemeny, Giulio; Gaboardi, Mario; Santini, Aldo; Testori, Mario; Reinhardt, Paul-Dietrich; Simoleit, Hartmut; and Walter, Ludwig, 3,652,217.
 Simomura, Katsuyasu, to Central Glass Co., Ltd. Method and apparatus for cutting sheet glass. 3,693,852, 9-26-72, Cl. 225-4.000.
 Simon, Albert, to Compagnie de Saint-Gobain. Complex products of resin and mineral fiber and process for making said products. 3,639,202, 2-1-72, Cl. 161-158.
 Simon, Albert B.: *See—*
 Hampe, Walter R.; Simon, Albert B.; Hampton, William H.; and Decker, William E., 3,692,127.
 Rushing, Frank C.; Gilbert, Lynford W.; and Simon, Albert B., 3,635,547.
 Rushing, Frank C.; and Simon, Albert B., 3,692,126.
 Simon, Andrew M.: *See—*
 Auletta, Lucien V.; Cornish, Blair E.; Damm, Eugene P., Jr.; Faigenbaum, Mark A.; and Simon, Andrew M., 3,660,263.
 Auletta, Lucien V.; Kim, Yungil; and Simon, Andrew M., 3,663,415.
 Simon, Edward, to Unirade Corporation. Structure and formation of semiconductors with transverse conductivity gradients. 3,697,827, 10-10-72, Cl. 317-235.000.
 Simon, Emmett F.: *See—*
 Bishop, John M.; and Simon, Emmett F., 3,641,859.
 Bishop, John M.; and Simon, Emmett F., 3,642,215.
 Simon, Eugen Meyer: *See—*
 Janzon, Karl-Heinz; Simon, Eugen Meyer; and Schwab, Heinrich, 3,691,089.
 Simon, Gunter, to Didier-Werke A.G. Furnace wall particularly for open-hearth furnaces. 3,667,181, 6-6-72, Cl. 52-496.000.
 Simon, Gunther, to International Standard Electric Corporation. Restricted dial telephone station. 3,681,532, 8-1-72, Cl. 179-6.30r.
 Simon Handling Engineers Limited: *See—*
 Rust, William, 3,690,391.
 Simon, Hans. Structure for providing air circulation at the roof of a building. 3,660,955, 5-9-72, Cl. 52-420.
 Simon, Henry, Limited: *See—*
 Moss, John Arthur, 3,679,117.
 Sullivan, John Anthony, 3,638,538.
 Simon, Horst, to Eastman Kodak Company. Camera shutter mechanism. 3,664,252, 5-23-72, Cl. 95-62.
 Simon, Horst. Film metering device for photographic cameras. 3,682,066, 8-8-72, Cl. 95-31.0fm.
 Simon, Horst; and Kirpal, Franz, to Eastman Kodak Company. Photographic apparatus for firing a plurality of flash lamps. 3,706,265, 12-19-72, Cl. 95-11.00l.
 Simon, James Louis: *See—*
 Knollman, Dieter John Henry; and Simon, James Louis, 3,671,942.
 Simon, James O. Swimming pool chlorinator apparatus. 3,672,508, 6-27-72, Cl. 210-128.000.
 Simon, Jean Ellen, to Colgate-Palmolive Company. Flexible film bag with tear strip for closure. 3,674,135, 7-4-72, Cl. 206-58.000.

- Simon, John G.: *See—*
 Eichler, Richard H.; and Simon, John G., 3,683,673.
 Simon, John M.: *See—*
 Kersten, Samuel D., Jr.; Sautter, Alton F.; and Simon, John M., 3,692,046.
 Kersten, Samuel D., Jr.; Sautter, Alton F.; and Simon, John M., 3,698,421.
 Simon, Karl: *See—*
 Simon, Peter, 3,637,226.
 Simon, Martin J., to PPG Industries, Inc. Method of grinding pigment. 3,694,239, 9-26-72, Cl. 106-309.000.
 Simon, Michael, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Process for manufacturing combustion chamber and/or nozzle of a rocket. 3,644,974, 2-29-72, Cl. 29-157.
 Simon, Morris: *See—*
 Simon, Sydney; Simon, Morris; Hale, John S.; and Markward, Charles J., 3,682,557.
 Simon, Myron S., to Polaroid Corporation. Polymers of dipyrityl. 3,641,034, 2-8-72, Cl. 260-296.
 Simon, Myron S.; and Waller, David P., to Polaroid Corporation. Photographic diffusion-transfer processes and elements utilizing pH-sensitive optical filter agents to prevent fogging by extraneous actinic radiation during development. 3,702,245, 11-7-72, C. 96-3.000.
 Simon, Paul, to International Business Machines Corporation. Method for manufacturing a thin-film magnetic head assembly. 3,657,806, 4-25-72, Cl. 29-603.000.
 Simon, Paul R.: *See—*
 Maier, Robert E., Jr.; McGinnis, Joseph P.; and Simon, Paul R., 3,690,650.
 Simon, Peter, to Simon, Karl. Ski. 3,637,226, 1-25-72, Cl. 280-11.13.
 Simon, Peter, to Bley, Roland. Fluid tight watch. 3,643,424, 2-22-72, Cl. 58-90.
 Simon, Pierre Edouard: *See—*
 Jeanmart, Claude; Messer, Mayer Naoum; and Simon, Pierre Edouard, 3,644,366.
 Simon, Ralph E., and Williams, Brown F., to RCA Corporation. Negative effective electron affinity emitters with drift fields using deep acceptor doping. 3,699,404, 10-17-72, Cl. 317-235.00r.
 Simon, Selwyn; and Tijnelis, Donatas, to Union Carbide Corporation. Plastic bag for packaging fresh red meat and method for making the same. 3,650,775, 3-21-72, Cl. 99-174.
 Simon, Stephane Marcel Clement; and Verhille, Henri Albert Juli, to International Standard Electric Corporation. Selection circuit. 3,667,001, 5-30-72, Cl. 317-137.000.
 Simon, Sydney: *See—*
 Simon, Sydney; Simon, Morris; Hale, John S.; and Markward, Charles J., 3,682,557.
 Simon, Sydney; Simon, Morris; Hale, John S.; and Markward, Charles J., to Simon, Sydney and said Hale and said Markward as-
 sor. to said Simon, Morris. Cleaning apparatus. 3,682,557, 8-8-72, Cl. 401-139.000.
 Simon, Theodore A., to Shell Oil Company. Leak-testing internal seas in pipe joints. 3,653,254, 4-4-72, Cl. 73-46.
 Simon, Theodore A., to Shell Oil Company. Method of connecting a hose between stations. 3,685,133, 8-22-72, Cl. 29-427.000.
 Simon, Theodore Andrew: *See—*
 Murphy, Carey E., Jr.; Simon, Theodore Andrew; and Torrest, Robert Steven, 3,692,114.
 Simon, Wilhelm; Moller, Willi; and Dohner, Rene, to Moller, Blas-
 blaserei Inhaber, Gebruder und Moller, Willi. Measuring electrode for measuring of ions in solutions. 3,647,666, 3-7-72, Cl. 204-195.
 Simon, William F.: *See—*
 Ricci, Vincent C.; and Simon, William F., 3,681,615.
 Simon-Carves Limited: *See—*
 Aldridge, Anthony Peter, 3,650,403.
 Brandestini, Antonio; and Thorpe, Walter, 3,657,798.
 Fitton, John Talbot; and Sutton, Alan, 3,685,166.
 Grieve, Alan, 3,643,926.
 Murphy, Arthur Douglas, 3,643,982.
 Simon-Vermet, Andre; and Grossenbacher, Charles-Andre, to Les
 Fabriques d'Assortiments Reunies. Balance for a time piece. 3,676,998, 7-18-72, Cl. 58-107.000.
 Simon-Vermet, Andre, to Les Fabriques d'Assortiments Reunies. Method of manufacturing an escapement lever for a timepiece. 3,694,885, 10-3-72, Cl. 29-177.000.
 Simond, Jacques: *See—*
 Mauvernay, Roland Yves; Busch, Norbert; Moleyre, Jacques; and Simond, Jacques, 3,637,680.
 Mauvernay, Roland Yves; Busch, Norbert; Simond, Jacques; and Moleyre, Jacques, 3,676,496.
 Mauvernay, Roland-Yves; Busch, Norbert; Simond, Jacques; and Moleyre, Jacques, 3,663,566.
 Simonds, Peter, to Canada, Her Majesty the Queen in the right of, as
 represented by the Minister of National Defence. Discone anten-
 na. 3,701,159, 10-24-72, Cl. 343-745.000.
 Simone, John: *See—*
 Shaheen, Joseph M.; and Simone, John, 3,641,520.
 Shaheen, Joseph M.; and Simone, John, 3,657,807.
 Shaheen, Joseph M.; and Simone, John, 3,662,358.
 Shaheen, Joseph M.; and Simone, John, 3,668,776.
 Shalhin, Joseph M.; and Simone, John, 3,698,081.
 Simone, Raymond A.: *See—*
 Pitt, Harold M.; and Simone, Raymond A., 3,642,960.
 Simone, Roy R. De; and Linton, Richard H., to International Busi-
 ness Machines Corporation. Monolithic capacitor structure. 3,704,384, 11-28-72, Cl. 307-304.000.
 Simonelli, Chris P., to Ford Motor Company. Seat back latch. 3,679,259, 7-25-72, Cl. 297-379.000.
 Simonelli, Le Roy S.; Randolph, Leonard B.; and Damico, Sam, to
 Clover Industries, Inc. Wheel chair ramp for automotive vehicles. 3,651,965, 3-28-72, Cl. 214-75.
 Simonen, Thomas C.: *See—*
 Hendel, Hans W.; Chu, Tsu-Kai; and Simonen, Thomas C., 3,668,066.
 Simonet, Guy A.; and Lesur, Pierre F., to L'Air Liquide, Societe
 Anonyme pour l'Etude et l'Exploitation des Procedes Georges
 Claude. Gas purifying process and apparatus. 3,702,525, 11-14-72, Cl. 55-25.000.
 Simonetta, Enrico, to USAG S.p.A. Free-wheel device for trans-
 mitting torques and reversible ratchet dog comprising same. 3,677,102, 7-18-72, Cl. 74-143.000.
 Simonffy, Louis. Thread cutting tools. 3,661,471, 5-9-72, Cl. 408-
 220.
 Simonffy, Louis. Spiral drill having unequal cutting faces. 3,706,504,
 12-19-72, Cl. 408-228-000.
 Simonis, Petrus J. C. A.: *See—*
 Van Gasse, Rene L. E.; and Simonis, Petrus J. C. A., 3,652,356.
 Simonnet, Jacques Louis Paul: *See—*
 Marchal, Philippe Albert Hippolyte; Simonnet, Jacques Louis
 Paul; and Verrien, Jean Prudent Fernand Rene, 3,653,225.
 Simonnot, Jack: *See—*
 Jardinier, Pierre; and Simonnot, Jack, 3,641,915.
 Simonoff, Ely: *See—*
 Berns, Peter M.; and Simonoff, Ely, 3,650,442.
 Simonov, Valery Alexandrovich: *See—*
 Demchuk, Alexandr Fedorovich; Deribas, Andrei Andreevich;
 Kudinov, Vladimir Mikhailovich; Matveenko, Felix Iovich;
 and Simonov, Valery Alexandrovich, 3,650,014.
 Simons, Charles W.: *See—*
 Edmonston, Robert P.; Gribens, Joel A.; and Simons, Charles
 W., 3,677,993.
 Simons, Charles W.; and Gribens, Joel A., to Grace, W. R., & Co.
 Gasket-forming compositions having improved resistance to water-
 based aerosol products. 3,702,310, 11-7-72, Cl. 252-430.000.
 Simons, Duane J.: *See—*
 Kekish, George T.; James, William G.; and Simons, Duane J.,
 3,640,933.
 Simons, Emil: *See—*
 Domres, Hans Georg; Simons, Emil; and Gillhaus, Horst,
 3,685,573.
 Gillhaus, Horst; and Simons, Emil, 3,688,951.
 Simons, Erskine, Jr.: *See—*
 Atkinson, Joseph G.; and Simons, Erskine, Jr., 3,666,821.
 Simons, Frank A.: *See—*
 Elliott, Herbert E.; and Simons, Frank A., 3,653,425.
 Simons, Frank Holmes, to Fiber Industries, Inc. Polyamide composi-
 tion and process. 3,707,522, 12-26-72, Cl. 260-37.00n.
 Simons, Gerald F.: *See—*
 Ferguson, Donald C.; Lynch, Frederick W.; and Simons, Gerald
 F., 3,643,146.
 Lynch, Frederick W.; and Simons, Gerald F., 3,651,494.
 Simons, Gerald F.; Lynch, Frederick W.; and McKown, Gary C., to
 Sperry Rand Corporation. Digital electrohydraulic servo actuator.
 3,664,234, 5-23-72, Cl. 91-363.000.
 Simons, Ira W., to Buckeye Stamping Company, The. Instrument
 case of assembled modular elements. 3,687,325, 8-29-72, Cl. 220-
 4.00r.
 Simons, Jon W.: *See—*
 Bourke, Robert F.; and Simons, Jon W., 3,656,006.
 Simons, Michael John, to Eastman Kodak Company. Preparation of
 silver ketenides. 3,681,417, 8-1-72, Cl. 260-430.000.
 Simons, Peter, to Farbenfabriken Bayer Aktiengesellschaft. Process
 for the production of aminoguanidine bicarbonate. 3,673,253, 6-
 27-72, Cl. 260-564.00f.
 Simons, Willi: *See—*
 Golde, Karl-Heinz; and Simons, Willi, 3,693,960.
 Simons, Willi, to Schloemann Aktiengesellschaft. Method for the
 continuous casting of tubes. 3,638,715, 2-1-72, Cl. 164-85.
 Simonsson, Gunnar Carl Rune, to Jungner Instrument Aktiebolag.
 Device to facilitate the focusing of a distance meter. 3,658,419, 4-
 25-72, Cl. 356-3.
 Simopoulos, Nicholas T.; and Tsui, James B. Y., to Labtron Cor-
 poration of America. Multiband antenna with associated R. F. am-
 plifier. 3,703,685, 11-21-72, Cl. 325-373.000.
 Simovits, Stephen S.; and Dumas, Christ J., to American Plasticraft
 Company. Tube socket assembly. 3,636,412, 1-18-72, Cl. 317-61.
 Simpkin, Dennis John: *See—*
 Morris, Arthur Leslie; Morris, Peter John; and Simpkin, Dennis
 John, 3,682,819.

Simpkin, Lawrence J.; and Srodawa, Richard M., to Detroit Edison Company, The. Structure for continuous monitoring of shaft vibration magnitude and phase angle. 3,686,956, 8-29-72, Cl. 73-462,000.

Simpkins, Frederick W., to Alden Research Foundation. Facsimile recorder and moving electrode therefor. 3,701,997, 10-31-72, Cl. 346-74,000.

Simpkins, Terry John: *See—*
Mack, Frank Joseph; and Simpkins, Terry John, 3,698,021.

Simplex Corporation: *See—*
Evans, Dewey M.; and Manetta, Peter J., 3,651,958.

Simplex Wire and Cable Company: *See—*
Graneau, Peter; and Smith, Joseph L., Jr., 3,646,243.
Hunt, George H.; and Learn, Jonathan R., 3,632,680.
Hunt, George H., 3,671,513.

Simplicity Engineering Co.: *See—*
Coakes, William Arthur, 3,666,066.

Simplimatic Engineering Co.: *See—*
East, Jerry L., 3,690,486.
East, Jerry L., 3,694,993.
Graff, William R., 3,678,254.
Scott, Hugh D., 3,665,444.
Short, Henry O., 3,677,584.

Simpliway Products Co.: *See—*
Lurey, Daniel M., 3,662,685.

Simpro Corporation of America, mesne: *See—*
Penick, Ib, 3,650,194.

Simpson, Allan R. Bass drum pedal assembly. 3,677,128, 7-18-72, Cl. 84-422,000.

Simpson, Billy D.: *See—*
Marrs, Oren L.; and Simpson, Billy D., 3,658,740.

Simpson Company: *See—*
Gilb, Tyrell T., 3,633,950.

Simpson, David Cumming, to National Research Development Corporation. Gripping. 3,675,962, 7-11-72, Cl. 294-99,00r.

Simpson, Edgar Alan: *See—*
Butcher, Howard J.; and Simpson, Edgar Alan, 3,681,017.

Simpson, Elbert L.: *See—*
Archer, Wesley L.; and Simpson, Elbert L., 3,646,229.
Archer, Wesley L.; and Simpson, Elbert L., 3,681,469.

Simpson, Elsworth C., to Polylok Corporation. Fabric. 3,672,187, 6-27-72, Cl. 66-192,000.

Simpson, Elsworth C., to Polylok Corporation. Method of and machine for making fabrics. 3,677,034, 7-18-72, Cl. 66-84,000.

Simpson, George R.: *See—*
Mason, Lawrence J.; Simpson, George R.; Paradysz, Louis F.; and Chen, Philip L., 3,670,633.

Simpson Industries, Inc.: *See—*
Sullivan, Francis G., 3,696,513.
Troyer, William J., 3,670,593.

Simpson, Jack W.: *See—*
Bluthman, Robert G.; Goldsberry, Paul E.; McConnell, Robert L.; and Simpson, Jack W., 3,654,609.
Bluthman, Robert G.; and Simpson, Jack W., 3,654,611.
McConnell, Robert L.; and Simpson, Jack W., 3,648,271.

Simpson, James E. Attachable container closure. 3,695,504, 10-3-72, Cl. 229-7,000.

Simpson, John I.: *See—*
Hogan, Elmer R.; and Simpson, John I., 3,670,363.

Simpson, Joseph Elmer. Elevator emergency actuator and rescue unit. 3,706,357, 12-19-72, Cl. 187-29,00r.

Simpson, Kenneth R., to General Electric Company. Camera tube with faceplate heating means. 3,681,637, 8-1-72, Cl. 313-65,00r.

Simpson, Lawrence V. Watercraft. 3,665,532, 5-30-72, Cl. 9-1.

Simpson, Lee S. Gathering apparatus. 3,698,169, 10-17-72, Cl. 56-328,000.

Simpson, Melvin R.: *See—*
Frost, Harold A.; and Simpson, Melvin R., 3,691,524.

Simpson, Melvyn I.: *See—*
Kallianos, Andrew G.; Mold, James D.; and Simpson, Melvyn I., 3,646,201.
Kallianos, Andrew G.; Warfield, Albert H.; and Simpson, Melvyn I., 3,704,714.

Simpson, Mervin M., Jr.: *See—*
Arganbright, Robert P.; and Simpson, Mervin M., Jr., 3,658,932.

Simpson, Michael Charles Stephen, to English Electric Company Limited, The. Overcurrent relays. 3,644,789, 2-22-72, Cl. 317-36.

Simpson, Michael M.: *See—*
Kincaid, Jack W.; and Simpson, Michael M., 3,651,566.

Simpson, Neville H.: *See—*
Brennan, Leon E.; Mower, Frederick J.; Place, Fred A.; Shanks, David A.; Simpson, Neville H.; and Zaner, William L., Sr., 3,634,899.

Simpson, Peter Laurence: *See—*
Scott, William Bruce; and Simpson, Peter Laurence, 3,705,909.

Simpson, Ralph E.: *See—*
Nichols, William A.; and Simpson, Ralph E., 3,672,592.

Simpson, Robert O., to Goodyear Tire & Rubber Company, The. Tire head construction. 3,682,223, 8-8-72, Cl. 152-362,00r.

Simpson, Robert O. Radial wire tire having improved sidewall cut resistance. 3,703,203, 11-21-72, Cl. 152-354,000.

Simpson, Roy: *See—*
Cavalla, John Frederick; Simpson, Roy; and White, Alan Chapman, 3,703,529.

Simpson, Samuel W., to Shell Oil Company. Pour and cloud point analyzer. 3,643,492, 2-22-72, Cl. 73-17.

Simpson, Samuel W., to Shell Oil Company. Method for determining the freezing point of a hydrocarbon. 3,667,280, 6-6-72, Cl. 73-17.

Simpson, Samuel W., to Shell Oil Company. Apparatus for automatic crystal point detection. 3,677,064, 7-18-72, Cl. 73-17,00r.

Simpson Timber Company: *See—*
Calusen, Victor H.; and Zweig, Arnold, 3,669,804.
Jarvi, Reino A., 3,690,979.
Leman, Marvin J., 3,669,039.
Leman, Marvin J., 3,669,502.

Simpson, William R. J.: *See—*
Gabel, Lloyd P.; and Simpson, William R. J., 3,637,699.
Gabel, Lloyd P.; and Simpson, William R. J., 3,637,700.
Gabel, Lloyd P.; and Simpson, William R. J., 3,637,701.

Simpson, William R. J. N-pyridinealkyl-alkanolamine nitrates. 3,689,494, 9-5-72, Cl. 260-296,00r.

Simpura, Petr Mikhailovich: *See—*
Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.

Sims, Anson; Stastny, Edwin O.; and Beny, Janos, to Mattel, Inc. Accelerator for a vehicle toy. 3,641,704, 2-15-72, Cl. 46-243.

Sims, Clarence R. Floor cleaning device for attachment to a shoe. 3,680,170, 8-1-72, Cl. 15-227,000.

Sims, Clarence R. Floor cleaning device adapted for securement to a shoe. 3,699,672, 10-24-72, Cl. 36-7,700.

Sims, Dewey M., Jr.: *See—*
Frederick, Harold M.; and Sims, Dewey M., Jr., 3,704,820.

Sims, Dewitt: *See—*
Gendron, Roger J.; and Sims, Dewitt, 3,658,194.

Sims, Don D. Football training harness. 3,671,974, 6-27-72, Cl. 2-3,00r.

Sims, Jimmy A., to International Business Machines Corporation. Process for improving photoconductive elements. 3,637,433, 1-25-72, Cl. 117-201.

Sims, John C., Jr.; and Brace, Lloyd D., Jr., to Information Transfer Corporation. Tactile response teaching system. 3,704,337, 11-28-72, Cl. 35-9.

Sims, Leslie L., to Ethyl Corporation. Preparation of amine complexes of aluminum hydride. 3,646,086, 2-29-72, Cl. 260-448.

Sims, Marion W., to General Electric Company. Method of maintaining a laminated article under compression during a part of its manufacture. 3,670,408, 6-20-72, Cl. 29-602.

Sims, Robert J., to Westinghouse Electric Corporation. Suds saving system for automatic washer. 3,695,291, 10-3-72, Cl. 137-571,000.

Sims, Samuel Francis. Device for displacing a substance in response to forces generated by a fluid under pressure. 3,662,929, 5-16-72, Cl. 222-386,500.

Sims, Stuart Donald: *See—*
Duffy, Joseph J.; and Sims, Stuart Donald, 3,641,307.

Sims, Willard M., to Foster Grant Co., Inc. Nylon compositions containing diisocyanate mold release agents. 3,668,171, 6-6-72, Cl. 260-32,4.

Sims, Willard M. Mold release agent for nylon. 3,692,730, 9-19-72, Cl. 260-32,60n.

Simsack, Anton. Self contained solder iron kit. 3,703,624, 11-21-72, Cl. 219-229,000.

Simshauser, Anthony J.: *See—*
Meraz, Daniel, Jr.; and Simshauser, Anthony J., 3,699,893.

Simson, Reiner: *See—*
Behn, Reinhard; Preissinger, Karl-Heinz; and Simson, Reiner, 3,665,268.
Preissinger, Heinz; and Simson, Reiner, 3,648,339.

Sinai, Philippe. Method of correction of an optical system by irradiation. 3,634,219, 1-11-72, Cl. 204-157,1.

Sinar AG Schaffhausen: *See—*
Koch, Carl, 3,701,582.

Sinatora, Gian Paolo: *See—*
Patron, Luigi; Moretti, Alberto; and Sinatora, Gian Paolo, 3,642,738.

Sincat-Societa Industriale Catanese S.p.A.: *See—*
Ferrara, Italo; and Castellani, Italo, 3,661,509.
Maresca, Arcangelo; and Ancilletta, Giuseppe, 3,631,608.

Sincavage, Joseph T.: *See—*
Pepmeier, Carl R.; Sincavage, Joseph T.; and Stoffregen, Louis E., 3,673,046.

Sincavage, Joseph T.; Pepmeier, Carl R.; and Stoffregen, Louis E., to FMC Corporation. Frangible package. 3,693,785, 9-26-72, Cl. 206-56,00a.

Sincerbox, Glenn T.: *See—*

Chang, David C.; Schools, Rodman S.; Sincerbox, Glenn T.; and Tao, Tien-Yu, 3,632,214.

Laming, Frank P.; Levine, Solomon L.; and Sincerbox, Glenn T., 3,695,879.

Sincerbox, Glenn T., to International Business Machines Corporation. Method and apparatus for interference pattern recording. 3,632,182, 1-4-72, Cl. 350-3,5.

Sinchuk, Anatoly Grigorievich: *See—*
Ischenko, Anatoly Yakovlevich; and Sinchuk, Anatoly Grigorievich, 3,636,301.

Sinclair & Rush, Inc.: *See—*
Miller, Joseph T., 3,663,678.

Sinclair, Albert R.: *See—*
Graham, John W.; Kiel, Othar M.; Terry, William M.; and Sinclair, Albert R., 3,664,420.
Terry, William M.; Graham, John W.; Sinclair, Albert R.; and Kiel, Othar M., 3,700,032.

Sinclair, Alex H.: *See—*
Otto, Robert J.; Sinclair, Alex H.; Reynolds, Ralph K.; and Neargardner, Robert F., 3,680,924.

Sinclair, Alex H.; Kozowyk, Ted; Reynolds, Ralph K.; Neargardner, Robert F.; and Edson, Robert H., to United States of America, Army, mesne. Track pad retention device. 3,642,332, 2-15-72, Cl. 305-38.

Sinclair, Fred G. Lock with readily interchangeable key. 3,654,783, 4-11-72, Cl. 70-349.

Sinclair, Gerald I.: *See—*
Croll, Robert D.; and Sinclair, Gerald I., 3,645,050.

Sinclair, Gordon J., to Diebold, Incorporated. Vacuum head magnetic valve construction for pallet loader. 3,698,755, 10-17-72, Cl. 294-65,000.

Sinclair Oil & Gas Company: *See—*
Bucaram, Salim M.; and Collings, Lawrence V., 3,640,824.

Sinclair Oil Corporation: *See—*
Stram, Michael A., 3,645,764.
Vrbaski, Theodor; Vitichus, Bernard C.; and Konkos, Robert, 3,704,251.

Sinclair Research, Inc.: *See—*
Clough, Thomas J., 3,647,731.
Fauber, Eugene M., 3,650,791.
Gower, Bob G.; and Poss, Richard F., 3,647,732.
Sanford, Robert A.; Mooi, John; and Rogers, Edward S., 3,679,605.

Sinclair, Richard G.; Berry, David A.; Schuller, Walter H.; and Lawrence, Ray V., to United States of America, Agriculture. Dimerization of rosin. 3,663,545, 5-16-72, Cl. 260-99,5.

Sinclair, Roderick James: *See—*
Bratt, Geoffrey Charles; and Sinclair, Roderick James, 3,642,467.

Sinclair, Stuart W., to Anderson, Clayton & Co. Load transfer and pallet stacker. 3,645,409, 2-29-72, Cl. 214-6.

Sinclair, Stuart W.; and Dennis, Monroe J., to Anderson, Clayton & Co. Narrow aisle attachment. 3,659,733, 5-2-72, Cl. 214-730,000.

Sinclair, William: *See—*
Cole, John M.; and Sinclair, William, 3,676,924.

Sinclair, William, to Ericsson Telephones Limited. Information storage equipment. 3,678,477, 7-18-72, Cl. 340-173,00r.

Sinclair, William Robert: *See—*
Peters, Frank Groom; Sinclair, William Robert; and Sullivan, Miles Vincent, 3,650,921.
Peters, Frank Groom; Sinclair, William Robert; and Sullivan, Miles Vincent, 3,669,863.

Sinclair, William Y., to Thomas & Betts Corporation. Matrix switch with improved flexible insulative spacer arrangement. 3,668,337, 6-6-72, Cl. 200-5,00a.

Sinclair, William Y., to Thomas & Betts Corporation. Method of making a memory plane with powdered keepered material. 3,696,506, 10-10-72, Cl. 29-604,000.

Sinclair-Koppers Company: *See—*
Hulse, George E.; and Harris, James J., 3,700,639.
Immel, Richard H., 3,704,081.
Mills, Frank J.; Sadowski, John T.; Squires, Harwood H.; and Uebelhart, James J., 3,671,026.
Trimble, Robert L., 3,697,454.
Wright, Harold A., 3,649,610.

Sindelar, Ernest C., to Pines Engineering Co., Inc. Tube bending apparatus. 3,650,136, 3-21-72, Cl. 72-150.

Sindelar, Ernest C., to Pines Engineering Co., Inc. Bending machine. 3,685,334, 8-22-72, Cl. 72-311,000.

Sinden, Frank W. Puzzle with changeable indicator wheels arranged in interrelated groups. 3,659,854, 5-2-72, Cl. 273-155.

Sine, Joseph D., to Honeywell Inc. Measuring apparatus. 3,649,368, 3-14-72, Cl. 136-232.

Sinervo, Into: *See—*
Burakoff, Valdemar; Krakstrom, Paul; Sinervo, Into; and Solitanner, Kaarlo H., 3,636,738.

Sinfelt, John H., to Esso Research and Engineering Company. Serial reforming with platinum catalyst in first stage and gridium, rhodium, ruthenium or osmium catalyst in second stage. 3,684,693, 8-15-72, Cl. 208-65,000.

Sinfield, Donald, to Universal Oil Products Company. Vehicle seats. 3,632,167, 1-4-72, Cl. 297-307.

Singelmann, Dietrich E.; and Hofmann, Heinrich, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung. Propulsion system for water craft. 3,688,732, 9-5-72, Cl. 115-37,000.

Singer, Alfred Richard Eric, to National Research Development Corporation. Process and apparatus for fabricating a hot worked metal layer from atomized metal particles. 3,670,400, 6-20-72, Cl. 29-527,500.

Singer, Barry M.: *See—*
Braun, Martin; Gossel, Stanley S.; and Singer, Barry M., 3,697,795.
Garewal, Khem; and Singer, Barry M., 3,646,379.

Singer Company (U.K.) Limited, mesne: *See—*
Parsons, Ronald, 3,653,346.

Singer Company, The: *See—*
Adahan, Carmeli, 3,702,449.
Adams, Kenneth D., 3,648,633.
Adams, Kenneth D.; and Odermann, Charles R., 3,669,044.
Adams, Kenneth D., 3,669,050.
Ahms, Wilbur C.; Sweeney, David F.; and Dannatt, Hugh St. L., 3,700,087.
Allen, Richard W., 3,645,373.
Allen, Richard W., 3,645,374.
Bantor, Louis J., 3,665,875.
Barber, Warren A., 3,699,399.
Barchard, Francis M., 3,678,997.
Barnes, Robert L.; and Grafstein, Daniel, 3,669,993.
Batson, William A.; and Fromknecht, Charles T., 3,636,681.
Batson, William A.; and Fromknecht, Charles T., 3,668,842.
Burkett, George; and Toepfen, Thurston H., 3,651,710.
Carns, Leroy J., 3,664,755.
Carroll, Kenneth A., 3,693,444.
Cohen, Edwin; and Altmiller, John C., 3,699,244.
Cowdrey, Roy M., 3,668,780.
Cowdrey, Roy M.; and Current, Wayne A., 3,698,087.
Davidson, Donald R.; and Wilson, Edmund B., III, 3,702,102.
Desai, Dhimat R., 3,693,671.
Edwards, William J., 3,688,712.
England, George G., 3,679,868.
Goldstein, Murray S.; Lerman, Harold; Acker, Robert; and Ross, Herbert S., 3,680,355.
Hasbrouck, Gene B., 3,695,330.
Herden, Robert B., 3,698,297.
Herr, John A.; and Porter, Oswald M., 3,676,928.
Herr, John A., 3,698,086.
Hinchey, John F., 3,656,232.
Hlipala, Edward; and Schindel, Arnold, 3,699,369.
Hrinko, Peter, Jr.; Krause, Irving; and Latincsics, Nandor K., 3,693,561.
Hunt, John M.; and Dannatt, Hugh St. L., 3,679,038.
Hunts, Barney D.; and Lyon, William O., 3,675,624.
Illes, Stephen J.; and D'Orto, Salvatore A., 3,667,414.
Johnson, Dwight N., 3,664,369.
Ketterer, Stanley J., 3,693,565.
Ketterer, Stanley J., 3,693,566.
Ketterer, Stanley J., 3,698,333.
Ketterer, Stanley J., 3,699,911.
Killing, Karl H.; and Ketterer, Stanley J., 3,678,871.
Laerman, Lothar; and Schenk, Robert J., 3,706,010.
Levy, Kenneth, 3,696,981.
Martinez, Leonard S., 3,656,507.
Michcon, Lester; and Reagan, Donald W., 3,668,897.
Mishcon, Lester; and Reagan, Donald W., 3,660,991.
Momborg, James W., 3,656,369.
Morsing, Gijsbertus B.; and Brinkmaan, Theqnis, 3,633,190.
Noller, Harry F.; and Morris, John C., 3,664,578.
Noller, Harry F., 3,693,543.
Norman, Melvin H.; and Hawthorne, Nathaniel F., 3,664,597.
O'Connor, Daniel G., 3,665,411.
Papirnyik, Andrew G., 3,679,047.
Pedersen, Egon A., 3,639,869.
Pedersen, Egon A., 3,693,123.
Peets, Robert S., 3,680,939.
Pilger, Allan B., 3,668,502.
Quinn, James A.; Owen, William J.; and Terpstra, Garry, 3,702,569.
Rab, Harry, 3,645,434.
Ragen, Robert A., 3,634,666.
Ragen, Robert A.; Herendeen, Carl E.; and Wood, Gary R., 3,678,471.
Rathjen, J. Fred; and Laermer, Lothar, 3,648,113.
Rogers, Frederick; Bradus, Robert; and Winar, Joseph J., 3,636,900.
Rolph, Donald L., 3,640,369.
Ross, Roger J., 3,656,443.
Ross, Roger J., 3,658,022.
Ross, Roger J., 3,706,291.
Ruddy, Donald C., 3,668,929.

- Schaffer, Harry G.; Neilson, Dan A.; and Poumakis, Eleuthere, 3,699,532.
- Sevilla, Ernesto G., 3,633,128.
- Trefzger, Edwin W.; Crimmins, Bruce; Plunkett, Raymond A.; Petkovsek, Richard J.; and Finster, Leslie Phillip, 3,637,164.
- Trefzger, Edwin W.; and Crimmins, Bruce, 3,664,607.
- Urciola, John A., 3,649,057.
- Urciola, John A.; and Marsh, Walter H. W., 3,699,910.
- Van Namen, Frederik Tjado, 3,669,444.
- Vidovic, Nikola, 3,657,559.
- Wagner, Robert W.; and Mc Laughlin, John, 3,665,983.
- Waibel, Helmut K., 3,700,142.
- Watson, William Alexander; and Mack, Malcolm, 3,635,099.
- Wilton, Raymond C., 3,668,790.
- Wiseman, Neil L., 3,701,104.
- Wittler, Bernard H., 3,665,873.
- Wurst, John W.; and Kanen, Robert M., 3,702,432.
- Singer Company, The, *See*—
- Aghazadeh, Shirzad, 3,699,556.
- Anderson, Robert J., 3,669,522.
- Barnes, Lell E.; and Morris, David, 3,671,810.
- Barnes, Robert L.; Block, William M.; and Grafstein, Daniel, 3,671,489.
- Bilinski, Donald J.; Galowin, Lawrence S.; and Napolitano, Michael, 3,675,711.
- Bilinski, Donald J.; and Weisbord, Leon, 3,700,289.
- Booth, William C., 3,694,808.
- Booth, William C.; and Kyser, Leslie T., 3,697,734.
- Carver, Fred F., 3,679,880.
- Cote, Martin J., 3,651,501.
- Eaton, Bradley C.; and Masel, Marvin, 3,668,693.
- Ebeling, William C., 3,686,435.
- Eisenberg, Robert M.; and Quick, George R., 3,694,558.
- Ensinger, Willis B., 3,700,290.
- Evans, John L.; and Rubino, Anthony G., 3,644,972.
- Faconti, Victor, Jr.; and Booth, William C., 3,707,044.
- Faith, Ruth L.; and Grobman, William, 3,679,876.
- Flora, James D., 3,651,502.
- Friedman, David; and Segal, Bernard Mortimer, 3,694,935.
- Gray, John W., 3,632,877.
- Gross, Robert D.; and Rogers, Roland T., 3,665,426.
- Hoffman, Jay; and Hohenstein, Robert M., 3,680,392.
- Howland, Robert W.; and Van Fleet, Richard L., 3,663,734.
- Howland, Robert W.; Minnich, George E.; and Van Fleet, Richard L., 3,694,930.
- Kittredge, Raymond Edson, 3,679,147.
- Kleinschmidt, Johann O.; Walter, Heinz E.; and Holl, Helmar H., 3,667,413.
- Kleinschmidt, Johann O.; Walter, Heinz E.; and Holl, Helmar H., 3,698,334.
- Krupick, Walter J.; Pilger, Allan B.; and Dickie, Robert J., 3,661,375.
- Kyser, Leslie T., 3,659,274.
- Kyser, Leslie T., 3,678,259.
- Laughlin, Gerald J., 3,692,268.
- Magee, Edward F.; and Haube, Stephen G., 3,665,086.
- Masel, Marvin; and Wedlake, Albert J., 3,639,837.
- Mc Coy, Reginald F. H., 3,697,681.
- McGlasson, Frank William, 3,659,920.
- McKnight, Robert A., 3,664,746.
- McKnight, Robert A., 3,678,601.
- Meyer, Bennett A.; and McGuire, Kenyon E. B., 3,648,145.
- Myles, Walter Edward, 3,682,532.
- Naydan, Bob N.; and Brinkman, John D., 3,646,545.
- O'Connor, Daniel G., 3,685,024.
- Papajewski, Reinhold; and Kleinschmidt, Johann, 3,695,200.
- Prill, Robert S., 3,678,501.
- Prill, Robert S., 3,697,978.
- Ragen, Robert A., 3,676,658.
- Rathjen, Julius Fred; and Stein, Morris O., 3,636,533.
- Rogall, Herbert, 3,680,393.
- Rowe, John Joseph, 3,676,565.
- Schaefer, Bruce M., 3,673,397.
- Schindel, Arnold, 3,659,689.
- Schindel, Arnold; and Coyle, Vincent E., 3,669,231.
- Segal, Bernard M.; and Friedman, David, 3,656,243.
- Slater, Robert, 3,703,004.
- Stone, Thomas W., 3,650,022.
- Stone, Thomas W., 3,664,017.
- Taylor, Allen R., 3,665,476.
- Townsend, Vernon R.; and Womeldorf, Waldo M., 3,665,102.
- Zocher, Josef, 3,645,222.
- Singer, Erich; *See*—
- Platzer, Herbert; Singer, Erich; and Wassermann, Franz, 3,684,320.
- Singer, Ernst. Fluid sampling apparatus. 3,670,577, 6-20-72, Cl. 73-423.
- Singer, Franz, to Compur-Werk Gesellschaft mit beschränkter Haftung & Co. Single lens reflex camera with focal plane shutter unit. 3,636,846, 1-25-72, Cl. 95-42.
- Singer, Isadore, to Singer Safety Products, Inc. Fire fighting apparatus. 3,687,185, 8-29-72, Cl. 160-1.000.
- Singer, Josef; *See*—
- Machatzke, Heinz; and Singer, Josef, 3,682,978.
- Singer, Josef, to Farbenfabriken Bayer Aktiengesellschaft. Anthraquinone dyestuffs. 3,665,019, 5-23-72, Cl. 260-374.
- Singer, Malcolm S., to Chevron Research Company. N-(1-Azido-2,2,2-trihaloethyl) azides and carbamates. 3,636,062, 1-18-72, Cl. 260-349.
- Singer, Malcolm S., to Chevron Research Company. N-(1-Azido-2,2,2-trihaloethyl) sulfonamides. 3,700,699, 10-24-72, Cl. 260-349.000.
- Singer, Malcolm Scott, to Chevron Research Company. Imidazolidinedione herbicides. 3,655,689, 4-11-72, Cl. 260-309.5.
- Singer, Malcolm Scott, to Chevron Research Company. Naphthyl-N-cyanomethyl carbamates. 3,705,188, 12-5-72, Cl. 260-479.000.
- Singer, Max E., to Keyes Fibre Company. Method of thermoplastic coating of molded pulp. 3,657,044, 4-18-72, Cl. 156-212.
- Singer, Murray. Convertible pen. 3,662,712, 5-16-72, Cl. 119-17.000.
- Singer, Robert B.; Muir, Earl B.; and Kotzar, Andrew J., to White Motor Corporation. Multiple countershafts transmission. 3,654,822, 4-11-72, Cl. 74-681.
- Singer Safety Products, Inc.; *See*—
- Singer, Isadore, 3,687,185.
- Singer-General Precision, Inc.; *See*—
- Bramson, Arnold; and Day, Wilbur H., 3,645,014.
- Buckstad, Stanley A., 3,633,044.
- Cwynar, Thomas; and Trzeciak, John R., 3,688,098.
- Dell, Harold R.; and Lara, Edward D., 3,691,359.
- Eland, Paul D., 3,694,716.
- Greenly, Robert B., 3,638,566.
- Harf, Kenneth G., 3,693,102.
- Jarmy, Howard I., 3,650,448.
- Jones, Derek; and Hayes, Woodrow L., 3,652,043.
- Myles, Walter E., 3,632,194.
- Schindel, Arnold, 3,693,759.
- White, Alvin S., 3,648,232.
- Wood, Gerald F.; and Green, Paul E., 3,650,045.
- Singerman, Gary M.; *See*—
- Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., 3,682,853.
- Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., 3,684,748.
- Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., 3,684,754.
- Franke, Norman W.; and Singerman, Gary M., 3,684,753.
- Singewald, Arno; *See*—
- Messer, Ernst; and Singewald, Arno, 3,695,711.
- Singh, Balwant, to American Cyanamid Company. Photosensitive compositions comprising 1,1-disubstituted-1,2-dihydro-2,4-disubstituted phthalazines. 3,634,085, 1-11-72, Cl. 96-48.
- Singh, Balwant, to American Cyanamid Company. Halo azido naphthalenes. 3,699,130, 10-17-72, Cl. 260-349.000.
- Singh, Jagmohan, to North American Rockwell Corporation. Independent needle knitting machines. 3,690,124, 9-12-72, Cl. 66-8.000.
- Singh, Kanwal N.; Cremean, Stephen P.; and Scott, Donald R., to Columbia Gas System Service Corporation. Modular air conditioning and heating system. 3,672,442, 6-27-72, Cl. 165-22.000.
- Singh, Shaaker; and Singh, Vijendrap P., to International Business Machines Corporation. Method of testing devices using untested devices as reference standard. 3,636,443, 1-18-72, Cl. 324-73.
- Singh, Shanker, to International Business Machines Corporation. Fast adder for multi-number additions. 3,675,001, 7-4-72, Cl. 235-175.000.
- Singh, Shobha; *See*—
- Bonner, William Adam; Singh, Shobha; and Van Uiter, Le Grand Gerard, 3,679,907.
- Grodkiwicz, William H.; Singh, Shobha; and Van Uiter, Le Grand Gerard, 3,659,136.
- Levinstein, Hyman Joseph; Singh, Shobha; and Van Uiter, Le Grand Gerard, 3,657,090.
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- Singh, Sujani; *See*—
- Arthur, Jett C., Jr.; and Singh, Sujani, 3,676,056.
- Arthur, Jett C., Jr.; Singh, Sujani; and Hinojosa, Oscar, 3,677,692.
- Singh, Vijendrap P.; *See*—
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- Singhal, Gopal H., to Esso Research and Engineering Company. Isothiocyanatomethyl and thiocyanatomethyl hydantoins. 3,681,377, 8-1-72, Cl. 260-309.500.
- Single, David, to Motorola, Inc. Method of reclaiming and coating phosphor. 3,647,522, 3-7-72, Cl. 117-100.
- Single, Winfried; *See*—
- Kindler, Hubert; and Single, Winfried, 3,660,510.
- Single-Buoy Mooring, Inc.; *See*—

- Smulders, Robert, 3,660,856.
- Singleton, Lloyd G. Universal conduit connector. 3,662,087, 5-9-72, Cl. 174-65.000.
- Singleton, Albert. Hanger bracket and driving apparatus for plating barrels. 3,668,103, 6-6-72, Cl. 204-213.000.
- Singleton, Cecil W.; and Jones, Richard P., to Allegheny Ludlum Industries, Inc. Apparatus for leveling thin strip. 3,680,343, 8-1-72, Cl. 72-161.000.
- Singleton, Clifton L.; *See*—
- Kibler, Gene M.; and Singleton, Clifton L., 3,702,342.
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- Singleton, Jack H., to Westinghouse Electric Corporation. Cathode materials for sputter-ion pumps. 3,684,401, 8-15-72, Cl. 417-49.000.
- Singleton, John C.; *See*—
- Sherrick, Ronald E.; and Singleton, John C., 3,679,173.
- Singleton, John Stephenson; *See*—
- Pratt, Ronald George; Willis, William; and Singleton, John Stephenson, 3,688,223.
- Singleton, Richard H.; *See*—
- Miller, Donald M.; and Singleton, Richard H., 3,653,976.
- Singleton, Richard L., to Loopco. Combined crocheting and looping needle. 3,678,712, 7-25-72, Cl. 66-118.000.
- Singleton, Robert J.; *See*—
- Loveland, Malcolm W.; and Singleton, Robert J., 3,704,041.
- Singmaster & Bryer; *See*—
- Somerville, Robert L., 3,661,535.
- Sinha, Vinod Tarkeshwar; *See*—
- Schoenbrunn, Erwin Frederick; and Sinha, Vinod Tarkeshwar, 3,674,848.
- Sinichkin, Moisei Mikhailovich; *See*—
- Silvestrov, Sergei Nikolaevich; Sinichkin, Moisei Mikhailovich; Shirokov, Grigory Ivanovich; Soloviev, Jury Filippovich; Silvestrov, Nikolai Demyanovich; and Amusin, Boris Zinovievich, 3,675,433.
- Sinitisky, Vladimir Mikhailovich; *See*—
- Efimov, Leonid Alexandrovich; Shtin, Lev Mikhailovich; Sinitisky, Vladimir Mikhailovich; Khirdzheiv, Sergei Grigorievich; Pylaikin, Petr Alexeevich; Satovskaya, Ljudmila Sergeevna; Grebnev, Nikolai Feodosovich; Rasseikin, Mikhail Grigorievich; Kalugin, Konsantin Yakovlevich; Somov, Boris Stepanovich; and Baranchikov, Vladimir Mikhailovich, 3,678,728.
- Sinizer, David I.; Fanelle, Louis H.; Toy, Albert; and Atteridge, David G., to North American Rockwell Corporation. Stress-oriented filament winding in composite panels. 3,638,298, 2-1-72, Cl. 29-470.9.
- Sinizer, David I.; Toy, Albert; Atteridge, David G.; and Fanelli, Louis H., to North American Rockwell Corporation. Stress-oriented filament winding in composite panels. 3,669,364, 6-13-72, Cl. 242-1.000.
- Sink, James A., Jr.; and Watson, Richard J., to Deering Milliken Research Corporation. Safety control. 3,671,170, 6-20-72, Cl. 431-88.000.
- Sinker, Robert A.; and Williams, George L., to Hughes Aircraft Company. Electric power source. 3,665,226, 5-23-72, Cl. 310-8.300.
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- Hoover, Merwin Frederick; Sinkovitz, Gloria Di Marco; and Ruland, Andrew Martin, 3,668,138.
- Sinkula, Anthony A.; *See*—
- Morozowich, Walter; and Sinkula, Anthony A., 3,655,885.
- Sinkula, Anthony A., to Upjohn Company, The. Erythromycin ureides and process of preparation. 3,661,891, 5-9-72, Cl. 260-210.
- Sinkula, Anthony A. Erythromycin amides as antibacterial agents. 3,689,645, 9-5-72, Cl. 424-181.000.
- Sinn, Gustav; *See*—
- Keberle, Wolfgang; Hornig, Heinz; and Sinn, Gustav, 3,686,387.
- Sinn, Hansjoerg; Hinck, Helmut; Gruetzmacher, Hans Friedrich; and Bandermann, Friedhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polymeric organo aluminum substances. 3,651,112, 3-21-72, Cl. 260-448.
- Sinn, Robert; *See*—
- Copin, Robert; Sinn, Robert; and Bouilly, Charles, 3,669,641.
- Sinnard, Leo G. Fifth wheel with safety features. 3,633,940, 1-11-72, Cl. 280-432.
- Sinnett, Homer Dayle; *See*—
- Anderson, John E.; and Sinnett, Homer Dayle, 3,675,545.
- Sinnott, David J.; and Alecci, Donald E., to Star-New Era, Inc. Photographic composition system. 3,702,094, 11-7-72, Cl. 95-4.500.
- Sinobad, Dusan; *See*—
- Melchior, Gerard; and Sinobad, Dusan, 3,697,880.
- Sinohara, Osamu; *See*—
- Kawai, Hiroshi; Sinohara, Osamu; and Haruyama, Tadayuki, 3,666,157.
- Sinol-Arzneimittel Dr. Schwirz GmbH; *See*—
- Cordes, Gunter, 3,656,997.
- Sinram & Wendt; *See*—
- Fussell, Kurt, 3,632,028.
- Sinusas, Robert R., to Monsanto Company. Cathode ray tube deflection system utilizing electromagnetic and electrostatic beam deflection. 3,668,462, 6-6-72, Cl. 315-23.000.
- Sinvervo, Into, to Oy Wartsila AB. Guided locking bar. 3,656,329, 4-18-72, Cl. 70-366.
- Sions, James B.; and Gramling, Wesley A. Brick hangers. 3,672,112, 6-27-72, Cl. 52-712.000.
- Sioui, Richard H.; and Cohen, Harvey M., to Norton Company. Resin bonded metal-coated diamond or cubic boron nitride abrasive tools containing an inorganic crystalline filler and graphite. 3,664,819, 5-23-72, Cl. 51-295.000.
- Sioux Steam Cleaner Corporation; *See*—
- Finger, John F., 3,692,433.
- Sioyama, Hitosi; *See*—
- Arikawa, Masayasu; and Sioyama, Hitosi, 3,688,967.
- Sipala, Richard, to Dapa Research Corporation. Rotary actuated spade. 3,633,681, 1-11-72, Cl. 172-546.
- Sipek, Charles B.; *See*—
- Brainard, Wallace E.; and Sipek, Charles B., 3,661,463.
- Sipin, Anatole J. Vehicle propulsion-assisting systems. 3,637,324, 1-25-72, Cl. 416-146.
- Sipin, Anatole J. Fluid proportioning system. 3,690,340, 9-12-72, Cl. 137-93.000.
- Sipos, Donald J.; Steigerwald, Robert F.; and Whitcomb, Newell E., to Du Pont de Nemours, E. I., and Company. Ductile corrosion-resistant ferrous alloys containing chromium. 3,672,876, 6-27-72, Cl. 75-124.000.
- Sippel, Charles P., Jr.; *See*—
- Nothmann, Gerhard A.; Sippel, Charles P., Jr.; and Bartky, Walter Scott, 3,689,150.
- Sippel, Egon; *See*—
- Gipperich, Karl; and Sippel, Egon, 3,648,827.
- Sippican Corporation, The; *See*—
- Hottel, Hoyt C., Jr., 3,684,962.
- Siquet, Serge; *See*—
- Charamel, Andre; Duroux, Jacques Marius; Siquet, Serge; and Descroix, Jaques, 3,692,830.
- S.I.R. Laboratori Chimico-Biologici S.p.A.; *See*—
- Serino, Enrico; Antoniu, Demetrio; Magi, Mario; Ganzina, Fabrizio; and Samuelli, Fabio, 3,651,059.
- Sir, Zdenek; *See*—
- Rod, Vladimir; Bazant, Vladimir; and Sir, Zdenek, 3,694,497.
- Sira Institute; formerly known as British Scientific Instrument Research Association; *See*—
- Dunn, Geoffrey Bernard; and York, Leonard Ernest, 3,669,048.
- Siragusa, George A.; *See*—
- Marshall, Albert H.; and Siragusa, George A., 3,657,826.
- Siraki, Yosinori; *See*—
- Nakai, Tuneso; Ando, Akira; Minehisa, Setuzi; Kaneko, Shun-suke; Siraki, Yosinori; Inui, Tatu; Nakazima, Hiroyuki; and Tominaga, Naotugu, 3,660,629.
- Sircorn, Richard Cumming, to Eastech Limited. Protection against electrical shock. 3,670,206, 6-13-72, Cl. 317-18.00d.
- Sirianni, Aurelio F.; and Puddington, Ira E., to Canadian Patents and Development Limited. Process for separation of siliceous and phosphatic material from iron ore. 3,661,254, 5-9-72, Cl. 209-5.000.
- Sirianni, Donald M. Steel shell for use in building construction. 3,659,388, 5-2-72, Cl. 52-91.
- Sirkis, Murray D.; *See*—
- Gaddy, Oscar L.; Holonyak, Nick, Jr.; Sirkis, Murray D.; and Baird, Jack R., 3,636,255.
- Sironi, Giuseppe; *See*—
- Colombini, Ariano; Viviani, Bruno; Massimino, Antonio; and Sironi, Giuseppe, 3,684,492.
- Colombo, Umberto; Scacciati, Giovanni; Sironi, Giuseppe; and Vascetti, Amos, 3,649,186.
- Colombo, Umberto; Sironi, Giuseppe; Viviani, Bruno; and Colombini, Ariano, 3,649,245.
- Sironi, Virginio, to Vibratechniques S.A. Variable amplitude vibrator, for example for the manufacture of moulded concrete products. 3,680,842, 8-1-72, Cl. 259-1.000.
- Sironi, Virginio, to Vibratechniques S.A. Vibrator. 3,704,862, 12-5-72, Cl. 259-1.00r.
- Sirota, Julius; Bentley, David J., Jr.; and Jubilee, Benjamin D., Jr., to National Starch and Chemical Corporation. Pressure sensitive adhesive compositions. 3,677,985, 7-18-72, Cl. 260-27.00r.
- Sirrenberg, Walther; *See*—
- Walther, Gerhard; Bauer, Rudolf; Schulz, Werner; and Sirrenberg, Walther, 3,703,523.
- Sirrenberg, Wilhelm; Hammann, Ingeborg; Behrenz, Wolfgang; Stendel, Wilhelm; and Unterstenhofer, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. 2,2-Dichloro-vinylphosphoric acid ester amides. 3,652,742, 3-28-72, Cl. 260-957.
- Sirrenberg, Wilhelm; Unterstenhofer, Gunter; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. Methylenebis-(phenyl-sulfide)-4-phenylsulfonic acid esters. 3,658,873, 4-25-72, Cl. 260-456.
- Sirrine, Edwin B.; *See*—
- Mayberry, Billy T.; and Sirrine, Edwin B., 3,668,701.

Sirrine, Richard C.; and Stein, Leonard, to General Electric Company. Method of making low resistance polycrystalline silicon contacts to buried collector regions using refractory metal silicides. 3,653,120, 4-4-72, Cl. 29-589.

Sirtl, Erhard: *See—*
Heywang, Walter; and Sirtl, Erhard, 3,674,552.

Sirtl, Erhard; and Seiter, Hartmut, to Siemens Aktiengesellschaft. Method of producing epitaxial growth layers of semiconductor material or electrical components. 3,653,991, 4-4-72, Cl. 148-175.

Sirtl, Erhard. Method for epitaxial precipitation of silicon at low temperatures. 3,661,637, 5-9-72, Cl. 117-201.

Sisenca S.A.: *See—*
Ohlsson, Jarl-Erik, 3,633,659.

Sisk, George William, Jr.; Miller, Arthur William; and Koleszar, Frank, to Whirlpool Corporation. Adjustable speed air drive-air sweep for air conditioner. 3,677,166, 7-18-72, Cl. 98-94,000.

Sisler, Hampson A. Optical ophthalmodynamometer. 3,706,304, 12-19-72, Cl. 128-2,000.

Sisler, Remo. Reciprocating, sensitive saw, with unidirectional cut, particularly adapted for use with diamond blades. 3,662,734, 5-16-72, Cl. 125-16.

Sissel, Harold N. Mechanically compensated zoom lens system. 3,640,605, 2-8-72, Cl. 350-184.

Sisson, Donald R.; and Hanson, Richard E., to Nelson, L. R., Mfg. Co., Inc. Water distribution in the operation of pivot move agricultural irrigation sprinkler systems. 3,680,778, 8-1-72, Cl. 239-100,000.

Sisson, Girard B. Storage and disposal vehicle. 3,658,383, 4-25-72, Cl. 298-2.

Sisson, Ronald L.: *See—*
Howard, Wayne R.; and Sisson, Ronald L., 3,636,705.

Sisson, William Howard: *See—*
Beuscher, Hugh Jacob; Nelson, Donald Robert; Sisson, William Howard; and Toy, Wing Noon, 3,638,184.

Sistare, Vann M.; and Brooks, Kenneth, to Celanese Corporation. Tandem yarn winding. 3,642,217, 2-15-72, Cl. 242-35.5.

Sitabkhan, Abdul N., to HTL Industries, Inc., mesne. Electrical monitor for fire extinguisher. 3,664,430, 5-23-72, Cl. 169-23.

Sitam Societa Industriale Telai Automatics Milano: *See—*
Colombo, Arturo, 3,683,972.

Sitamura, Osamu: *See—*
Hachisu, Mikio; Saito, Chikanori; Sitamura, Osamu; and Nambu, Yasuo, 3,659,323.

Sitek, George J.; and Revesz, Robert N., to Laboratory Equipment Corporation. Electrically resistive crucible. 3,636,229, 1-18-72, Cl. 13-25.

Sitelines, Inc.: *See—*
McCurdy, Richard H.; and Connelly, Lawrence W., 3,685,239.

Sitkowski, Mark: *See—*
Forman, Arthur Walter; and Sitkowski, Mark, 3,642,080.

Sitler, Carl L.: *See—*
Feinberg, Irving; Langdon, Jack L.; and Sitler, Carl L., 3,697,318.

Sitler, Galen: *See—*
Hochheiser, Jerome S.; Zermeno, Louis; and Sitler, Galen, 3,663,895.

Sitnichenko, Valentin Mikhailovich; and Zamuruev, Alexander Mikhailovich. Photoelectric comprising two lenses or apertures located along a common radius from an axis of rotation. 3,639,767, 2-1-72, Cl. 250-202.

Sitnikov, Leonid Semenovich: *See—*
Borisov, Konstantin Grigorievich; Markman, Isosif Leibovich; Sitnikov, Leonid Semenovich; and Utyakov, Lev Lazarevich, 3,659,163.

Sitnikov, Leonid Semenovich; Utyakov, Lev Lazarevich; and Skorik, Alexandr Grigorievich. Pre-settable self-correcting staircase counters. 3,683,207, 8-8-72, Cl. 307-225,000.

Sitt, Eddie. Article with removable ornament that also serves as a fastener. 3,646,642, 3-7-72, Cl. 24-97.

Sitter, Evan L., to Sitter, Spencer B. Resilient linkage for limb shaker. 3,696,597, 10-10-72, Cl. 56-328,0ts.

Sitter, Spencer B.: *See—*
Sitter, Evan L., 3,696,597.

Sitter, Spencer B. Limb shaker. 3,650,099, 3-21-72, Cl. 56-328.

Sitter, Spencer B. Limb holder. 3,690,052, 9-12-72, Cl. 56-328,000.

Sitterly, Charles K., to Scovill Manufacturing Company. Plastic sheated window frame. 3,662,494, 5-16-72, Cl. 49-504.

Sittner, Weldon Rex, to Electro Medical Systems, Inc. Method and apparatus for high frequency electric surgery. 3,675,655, 7-11-72, Cl. 128-303,140.

Sitver, Leonard A.: *See—*
Yelin, Robert E.; Sitver, Leonard A.; and Villiers, Ralph F., 3,649,164.

Sitz, Gilbert Carl: *See—*
Lau, Ralph Rupp; and Sitz, Gilbert Carl, 3,664,218.

Sitz, Tilbert C., to Collins Radio Company. Cable winding apparatus. 3,700,180, 10-24-72, Cl. 242-54,00a.

Sivash, Konstantin Mitrofanovich: *See—*
Stroganov, Genrikh Borisovich; Savitsky, Evgeny Mikhailovich; Tikhova, Nina Mikhailovna; Terekhova, Vera Fedorovna;

Volkov, Mstislav Vasilievich; Sivash, Konstantin Mitrofanovich; and Borodkin, Vladislav Sergeevich, 3,687,135.

Sivertsen, David R.: *See—*
Kinstley, Warren O.; and Sivertsen, David R., 3,704,216.

Sivertson, Wilford E., Jr., to United States of America, National Aeronautics and Space Administration. Logical function generator. 3,700,868, 10-24-72, Cl. 235-152,000.

Siwek, Erwin G.: *See—*
Hamlen, Robert P.; and Siwek, Erwin G., 3,645,794.

Siwesson, Olle Lennart; and Tell, Karl Gunnar. Devices for guiding material to the entrance end of a screw conveyor having a rotatable screw and a conduit therefor. 3,685,638, 8-22-72, Cl. 198-213,000.

Siwik, Anthony F., to Parker-Hannifin Corporation. Coupling for plastic tube. 3,640,554, 2-8-72, Cl. 285-382.2.

Siwik, Egbert: *See—*
Hase, Helmut; and Siwik, Egbert, 3,659,869.

Siwko, Karol: *See—*
Kruzewski, William Frank; and Siwko, Karol, 3,699,455.

Siwko, Karol, to GTE Sylvania Incorporated. Television receiver intermediate frequency amplifier circuitry. 3,706,846, 12-19-72, Cl. 178-7,30r.

Six, Hugh A.: *See—*
Brach, Paul J.; and Six, Hugh A., 3,657,272.

Six, Richard. Clutch controls for power take-off shafts of tractor or like vehicles. 3,640,362, 2-8-72, Cl. 192-48.7.

Sixsmith, Herbert, to National Research Development Corporation. Damped bearing. 3,639,014, 2-1-72, Cl. 308-9.

Sixt, Marty E.: *See—*
Martin, Ronald C.; and Sixt, Marty E., 3,658,097.

Sixt, Marty E., to Advanced Drainage Systems, Inc. Corrugated drainage tubes and fittings. 3,699,684, 10-24-72, Cl. 61-11,000.

Siyanov, Sergei Alexandrovich: *See—*
Lutchenkov, Anatoly Matveevich; Shekhodanov, Mikhail Petrovich; Siyanov, Sergei Alexandrovich; Korovin, Ivan Stepanovich; Kholstova, Nonna Alexandrovna; Kreptseva, Valentina Nikolaevna; and Lerkovskaya, Nina Petrovna, 3,671,125.

Size, Robert A. Immersion deep frier. 3,640,208, 2-8-72, Cl. 99-408.

Sizer, Phillip S.; and Schwegman, Harry E., to Otis Engineering Corporation. Well flow circulating methods. 3,637,012, 1-25-72, Cl. 166-250.

Sizer, Phillip S., to Otis Engineering Corporation. Fluid circulating method and system for wells. 3,654,995, 4-11-72, Cl. 166-313.

Sizer, Phillip S.; and Carroll, Albert W., to Otis Engineering Corporation. Well cross-over apparatus for selective communication of flow passages in a well installation. 3,666,012, 5-30-72, Cl. 166-224.

Sizer, Phillip S.; and Schwegman, Harry E., to Otis Engineering Corporation. Methods of completing a well. 3,669,190, 6-13-72, Cl. 166-315,000.

Sizer, Phillip S., to Otis Engineering Corporation. Well flow control system and method. 3,675,720, 7-11-72, Cl. 166-314,000.

Sizer, Phillip S., to Otis Engineering Corporation. Pipe handling apparatus and method. 3,677,345, 7-18-72, Cl. 166-315,000.

Sjoberg, Bengt; and Viberg, Oskar. Bombing instrument for targets having transverse motion relative to aircraft flight path. 3,689,741, 9-5-72, Cl. 235-61,50d.

Sjoberg, Berndt Olof Harald: *See—*
Bamberg, Peter; Ekstrom, Bertil Ake; Sjoberg, Berndt Olof Harald; and Nathorst-Westfelt, Lars Solve, 3,642,810.

Carlsson, Lars Anders Fritz; Helgstrand, Ake John Erik; Sjoberg, Berndt Olof Harald; and Stjernstrom, Nil Erik, 3,637,714.

Sjolin, Ulf: *See—*
Sandstrom, Unto; Abramson, Nils; Sjolin, Ulf; Murray, Henrik; and Colding, Bertil, 3,662,279.

Sjonvall, Ragnar Edward: *See—*
Glasser, George; Sjonvall, Ragnar Edward; and Kaplow, Milton, 3,676,154.

Sjoo, Bertil Roland, to Hesselman Bil-Aero AB. Single-lever mechanism. 3,705,519, 12-12-72, Cl. 74-471,0xy.

Sjoquist, John A., to LKB-Produkter AB. Method and apparatus for analysing proteins. 3,645,689, 2-29-72, Cl. 23-230.

Sjostrand, Carl Evert: *See—*
Wikholm, Sture Sven-Olof; and Sjostrand, Carl Evert, 3,687,576.

Sjostrand, Ulf Hakan; and Oberg, Per Ake, to LKB Medical AB. Apparatus for influencing the systemic blood pressure in a patient by carotid nerve stimulation. 3,650,277, 3-21-72, Cl. 128-419.

Sjostrom, Gosta; deceased (by Sjostrom, Ruth; and Sjostrom, Kjell; heirs). System for arresting the movement of objects travelling along a defined path. 3,674,117, 7-4-72, Cl. 187-67,000.

Sjostrom, John P., Sr., to Cass Industries, Ltd. Handlebar hand protector. 3,665,515, 5-30-72, Cl. 2-17.

Sjostrom, Kjell: *See—*
Sjostrom, Gosta, 3,674,117.

Sjostrom, Ruth: *See—*

Sjostrom, Gosta, 3,674,117.

Sjotun, Kyre Guttorm. Oil burner system with motor driven pump controlling by-pass valve. 3,698,639, 10-17-72, Cl. 239-124,000.

Sjovall, Jan: *See—*
Bergstrom, Sune; and Sjovall, Jan, 3,691,216.

Sjovall, Stig Lennart, to Svenska Sockerfabriks Aktiebolaget. Root-crop harvesters. 3,680,638, 8-1-72, Cl. 171-76,000.

Sjusjuk, Vladimir Efimovich: *See—*
Vasilkovsky, Lev Fedorovich; Sjusjuk, Vladimir Efimovich; Abrosimov, Nikoloi Nikitovich; Geidebrekhov, Georgy Andreevich; Lyashenko, Vsevolod Andreevich; and Podmogilny, Vladimir Ivanovich, 3,659,642.

SK Instruments Limited: *See—*
Pilkington, Stephen John, 3,643,108.

Skaathun, Olav; and Troope, Walter S., to Tedeco Textile Development Co. A/S. Apparatus for treatment of fabrics with liquid ammonia. 3,664,158, 5-23-72, Cl. 68-5.

Skabunde, Steven Eldor, to Giddings & Lears, Inc. Hydrostatic seal for rotary machine tool spindles. 3,698,725, 10-17-72, Cl. 277-74,000.

Skadynsh, Rolands Bernkhardovich: *See—*
Fridman, Uriel Grigorievich; Mor, Gera Sergeevna; Skadynsh, Rolands Bernkhardovich; and Kuzmenko, Ivan Emelyanovich, 3,691,885.

Skaft, Stanley F., to Williams Furnace Co. Oven heater combination. 3,667,450, 6-6-72, Cl. 126-85,00b.

Skaggs, Preston H. Truck bed. 3,647,097, 3-7-72, Cl. 214-506.

Skagit Corporation: *See—*
Mangold, Edward J., 3,675,960.

McIntyre, Maurice J., 3,688,929.

McIntyre, Maurice J.; and Newton, John R., 3,680,721.

Skahen, Don H., to Dunham Tool Company, Inc., The. Spring actuated release of contracting collet chucks for lathes and the like. 3,687,468, 8-29-72, Cl. 279-51,000.

Skahill, Fred J., to Case, J. I., Company. Corn threshing cylinder and concave. 3,631,861, 1-4-72, Cl. 130-6.

Skala, George F., to Environment-One Corporation. Self-adjusting condensation nuclei monitor measuring circuit having adjustable gain. 3,678,488, 7-18-72, Cl. 340-236,000.

Skala, George Frank, to Environment-One Corporation. Dual beam fluid monitor for measuring transmitted and scattered light. 3,647,300, 3-7-72, Cl. 356-73.

Skala, Stephen F. Printing by selective ink ejection from capillaries. 3,693,179, 9-19-72, Cl. 346-1,000.

Skaletzky, Louis L.: *See—*
Rynbrandt, Ronald H.; and Skaletzky, Louis L., 3,647,804.

Skalleberg, Oystein Gunnar, to MeKanomatik AB. Winding device for a cable, rope or the like. 3,687,385, 8-29-72, Cl. 242-54,00r.

Skalsey, Lily G., to Lear Siegler, Inc. Expanding arbor for tapered holes. 3,654,797, 4-11-72, Cl. 72-393.

Skalsey, Lily G., to Lear Siegler, Inc. Pot broaching machine. 3,670,625, 6-20-72, Cl. 90-86,000.

Skalski, Stephen, III: *See—*
Logan, William A.; Holmes, Richard M.; Denny, William M.; Mahon, Michael J.; Skalski, Stephen, III; Henige, Gerald L.; and Bedekar, Shreekanth, 3,686,641.

Skandinaviske Emballage Aktieselskab: *See—*
Orstam, Preben Einar Roar, 3,647,044.

Skandinaviske Foto Trade AB: *See—*
Sundsten, Owe Wilhelm; and Johansson, Karl Bertil Sune, 3,703,916.

Skanes, Frederick A.; Aker, Ludwig E.; and Kraemer, Ronald G., to International Harvester Company. Track roller shaft mounting. 3,662,847, 5-16-72, Cl. 180-9,20r.

Skanski Cementaktiebolaget: *See—*
Moren, Rolf Erhard; and Ydren, Nils-Erik, 3,663,251.

Skaperdas, Dominic O.: *See—*
Bitzer, Donald L.; Bandy, Lyle E.; Johnson, Roger L.; and Skaperdas, Dominic O., 3,641,529.

Skappel, Einar. Control valve. 3,648,721, 3-14-72, Cl. 137-408.

Skaptason, Joseph B.: *See—*
Schwartz, Herbert; and Skaptason, Joseph B., 3,654,302.

Skarbo, Roald R., to Kennecott Copper Corporation. Recovery of molybdenum. 3,653,815, 4-4-72, Cl. 23-15.

Skarivrd, Edwin Larry, to AMF Incorporated. Time switch with indexing means for programming. 3,704,629, 12-5-72, Cl. 74-3,520.

Skarvinko, Eugene R., to International Business Machines Corporation. Preventing speed loss in oxygen sensitive photo-resist layers. 3,669,667, 6-13-72, Cl. 96-68,000.

Skarzynski, Maciej Stanislaw. Disconnectable couplings. 3,704,002, 11-28-72, Cl. 251-149,600.

Skatrud, Ralph O.: *See—*
Laurer, George J.; and Skatrud, Ralph O., 3,700,859.

Skau, Evald L.: *See—*
Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,644,478.

Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,661,936.

Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,663,582.

Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,691,158.

Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,694,397.

Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,704,257.

Skaw, Eugene Raymond: *See—*
Degenkolb, Robert Stephen; and Skaw, Eugene Raymond, 3,681,713.

Skebeck, Arthur W. Probe game. 3,661,393, 5-9-72, Cl. 273-153.

Skedd, Richard Finnie: *See—*
Craven, George Frederick; and Skedd, Richard Finnie, 3,639,862.

Skeels, Gary William, Jr.: *See—*
Rabo, Jule Anton; Angell, Charles Leslie; and Skeels, Gary William, Jr., 3,647,682.

Skeen, Gary R. Micrometer adjustment for a stock feeding device. 3,635,102, 1-18-72, Cl. 74-600.

Skees, Hugh B.; and Mays, John D., to Standard Register Company, The. Donor-receptor copy paper. 3,635,747, 1-18-72, Cl. 117-36.3.

Skega AB: *See—*
Naredi, Robert Gerhard Franz Josef, 3,637,147.

Skegai Tekko Kabushiki Kaisha: *See—*
Ito, Kazuo; and Yotsubayashi, Hiroyuki, 3,662,473.

Skeggs, Leonard T., to Technicon Instruments Corporation. Method and apparatus for sample analysis on a continuous flow basis. 3,699,004, 10-17-72, Cl. 195-103,50r.

Skehan, Bernard J., to Hughes Aircraft Company. Scan control system. 3,665,282, 5-23-72, Cl. 318-627.

Skei, Inge. Recording apparatus for sonar and echo sounding systems. 3,698,658, 10-17-72, Cl. 242-192,000.

Skelley, John W.: *See—*
Milton, Thomas J.; and Skelley, John W., 3,703,105.

Skelton, Charles Roger; and Malkani, Dalip Tarachand, to British Iron and Steel Research Association, The. Control for rolling means having successive rolling stands. 3,650,135, 3-21-72, Cl. 72-8.

Skelton, Leslie George Victor; Thomas, Godfrey Hunt; and Jenkins, Hedley Brynmor, to Skelton-Thomas Limited. Convector plates. 3,661,371, 5-9-72, Cl. 266-5.

Skelton, Robert F.; and Truax, Harry, to Mix-Mill, Inc., mesne. Apparatus and method for treating grains and legumes. 3,680,472, 8-1-72, Cl. 99-235,00r.

Skelton-Thomas Limited: *See—*
Skelton, Leslie George Victor; Thomas, Godfrey Hunt; and Jenkins, Hedley Brynmor, 3,661,371.

Skenderoff, Claude, to Thomson-CSF. Symbol recognition system, particularly for alpha-numeric characters utilizing electro-optical techniques with non-coherent light. 3,644,889, 2-22-72, Cl. 340-146.3.

Skeppstedt, Nils Petri, to Aktiebolaget Karlstads Mekaniska Werkstad. Machine for making thin paper. 3,694,311, 9-26-72, Cl. 162-290,000.

SKF Industrial Trading and Development Company N.V.: *See—*
Arsenius, Torsten Henry; Gustafsson, Anders Christer; and Hallstedt, Karl Goran Albin, 3,672,733.

Arsenius, Torsten Henry; and Hallstedt, Carl Goran Albin, 3,675,977.

Arsenius, Torsten Henry, 3,696,841.

Axbard, Gunnar Bertil, 3,644,971.

Fernlund, Lars Martin Ingemar; and Kellstrom, Erik Magnus, 3,663,074.

Gustafsson, Anders Christer, 3,703,322.

Hallerback, Stig Lennart, 3,658,395.

Hallerback, Stig Lennart, 3,675,979.

Hallerback, Stig Lennart, 3,701,911.

Hallerback, Stig Lennart, 3,702,720.

Hallerback, Stig Lennart, 3,707,038.

Nilsson, Sven Walter, 3,659,435.

Nilsson, Sven Walter, 3,699,823.

SKF Industries, Inc.: *See—*
Coaley, Albert E., 3,631,954.

Crecelius, William J., 3,655,252.

Martinie, Howard M., 3,683,421.

SKF Kugellagerfabriken GmbH: *See—*
Bartling, Gerhard, 3,685,270.

Breitenbach, Karl-Heinz, 3,673,781.

Hampp, Wilhelm; and Sandstrom, Stig, 3,689,127.

Kohler, Gisbert, 3,641,759.

Kohler, Gisbert, 3,669,518.

Manger, Werner, 3,656,825.

Munnich, Hermann; and Markert, Franz, 3,695,391.

Steichele, Joseph, 3,681,831.

SKF Kugellagerfabriken GmbH mit beschränkter Haftung: *See—*
Kohler, Gisbert, 3,684,334.

Ski Free Company: *See—*
Berlenbach, Bernard E., 3,643,977.

Ski-Doo Sports Ltd.: *See—*
Walker, Marvin, 3,670,340.

Ski-Tow Manufacturing Co.: *See—*

- Young, Charles H.; and Ray, Donald L., 3,672,238.
Skiatron Electronics & Television Corporation: *See—*
Shanahan, William J.; Zopf, Vincent R.; and Loshin, Albert M., 3,689,688.
Skiba, Alexander, Jr., to Royal Packaging Equipment, Inc. Machine for package turnover and orientation. 3,679,070, 7-25-72, Cl. 214-1.00q.
Skibo, Andrew D.; and Woodworth, Chester L., to Monsanto Company. Apparatus for controlling back pressure in an extruder. 3,647,344, 3-7-72, Cl. 425-379.
Skid-Stack Corporation: *See—*
Sanders, James S., 3,664,272.
Skidmore, Wallace E.; Syltebo, Bjarne E.; and Viall, Wilton S., to Boeing Company, The. Aircraft engine variable highlight inlet. 3,664,612, 5-23-72, Cl. 244-53.00b.
Skiermont, Frank Joseph: *See—*
Snedeker, Robert Howard; Garty, Kenneth Thomas; and Skiermont, Frank Joseph, 3,666,614.
Skil Corporation: *See—*
Braun, Hermann E., 3,637,967.
Gawron, Alex F., 3,660,742.
Gronke, Ronald E.; and Schultz, William H., 3,701,369.
Skilbeck, John P.: *See—*
Rackus, John J.; Skilbeck, John P.; and Szkudlapski, Alfons H., 3,692,638.
Skiles, Richard D.: *See—*
Pilgram, Kurt H.; and Skiles, Richard D., 3,658,830.
Skille, Peter W. Fence corner. 3,655,167, 4-11-72, Cl. 256-35.
Skillicorn, Brian: *See—*
Trump, John George; Skillicorn, Brian; and Johnson, Byron Lee, 3,684,991.
Skillicorn, Douglas E., to Goodrich, B. F., Company, The. Liquid thioester-terminated polymers. 3,705,882, 12-12-72, Cl. 260-79.000.
Skime, Roger H., to Arctic Enterprises, Inc. Shock mounted suspension system. 3,690,394, 9-12-72, Cl. 180-5.00r.
Skinner, Burrhus F., to Meredith Corporation. Educational device with self-checking arrangement. 3,650,046, 3-21-72, Cl. 35-9.
Skinner, Frank R., II; and Wigfall, Robert T., to Whirlpool Corporation. Audible indicator for solenoid valve. 3,665,960, 5-30-72, Cl. 137-551.000.
Skinner, George C.: *See—*
Cope, Geoffrey W.; and Skinner, George C., 3,678,442.
Skinner, Harold A.: *See—*
Othalek, Joseph V.; and Skinner, Harold A., 3,663,386.
Skinner, Harvey G., to Vulcan, Inc. Pallet constructions. 3,654,874, 4-11-72, Cl. 108-51.
Skinner, Harvey G., to Vulcan, Inc. Hollow knob constructions. 3,699,613, 10-24-72, Cl. 16-121.000.
Skinner, Jack; and Whitehurst, George, to Simms Motor Units Limited. Fuel injection controls for internal combustion engines. 3,664,317, 5-23-72, Cl. 123-139.0bg.
Skinner, James R.: *See—*
Herte, Lawrence F.; Kloss, Frank R.; Lane, George C.; and Skinner, James R., 3,632,494.
Skinner, James R.; Uitz, Mark O.; and Hait, Paul W., to Action Film, Inc. Motion picture viewer with removable cartridge. 3,706,439, 12-19-72, Cl. 352-78.000.
Skinner, John George: *See—*
Goldrick, Michael Richard; Kerwin, Robert Eugene; and Skinner, John George, 3,674,492.
Skinner, Jon R.; and Sanborn, Charles E., to Shell Oil Company. Dehydration of α -methylbenzyl alcohol. 3,658,928, 4-25-72, Cl. 260-669.
Skinner, Kenneth R., to General Motors Corporation. Headlamp turn off time delay. 3,684,916, 8-15-72, Cl. 315-82.000.
Skinner Precision Industries, Inc.: *See—*
Ellison, John E., 3,670,274.
Skinner, Robert Thomas John: *See—*
Martin, Anthony Eugene Joseph; Skinner, Robert Thomas John; and Baker, Bernard James, 3,662,495.
Skinner, Robert Thomas John, to Lucas, Joseph, (Industries) Limited. Spill valves. 3,665,951, 5-30-72, Cl. 137-117.
Skinner, Wilfred A.; and Tong, Homer H. C., to Stanford Research Institute. Method for controlling rodents with certain bis-aziridine acetyl chemosterilants. 3,636,212, 1-18-72, Cl. 424-244.
Skinner, Wilfred A.; Johansson, John G.; and Johnson, Howard L., to Stanford Research Institute. 3,4,5-Trimethoxybenzamides of phenyl- and pyridylalkylamines. 3,676,447, 7-11-72, Cl. 260-295.0am.
Skinner, Wilfred A.; Johansson, John G.; and Johnson, Howard L., to Stanford Research Institute. 3,4,5-Trimethoxybenzamides of substituted anilines and of alkylpiperidines. 3,702,324, 11-7-72, Cl. 260-293.530.
Skinner, Wilson M.: *See—*
French, Lawrence R.; and Skinner, Wilson M., 3,691,248.
Sklaar, Richard L. Bench. 3,697,129, 10-10-72, Cl. 297-217.000.
Sklar, J., Mfg. Co., Inc.: *See—*
Sklar, John, 3,646,939.
Sklar, John, to Sklar, J., Mfg. Co., Inc. Towel clamp. 3,646,939, 3-7-72, Cl. 128-321.
Sklaarsky, Bernard B.; and Ostrander, Robert K., to Uneeda Doll Co., Inc. Growing-hair doll. 3,696,551, 10-10-72, Cl. 46-135.000.
Sklarz, William A.; Grenda, Victor J.; Lindberg, Glenn W.; and Epstein, Albert D., to Merck & Co., Inc. Process for preparing 4(5)-nitroimidazoles. 3,644,391, 2-22-72, Cl. 260-309.
Sklénak, John S.: *See—*
Krah, Hans-Joachim; Sklenak, John S.; and Smith, William A., 3,666,983.
Skobel, Max, to Dow Corning Corporation. Equipment for making reinforced tubing. 3,698,988, 10-17-72, Cl. 156-428.000.
Skoda, narodni podnik: *See—*
Strejc, Bohuslav, 3,641,708.
Zajic, Vladimir, 3,643,496.
Skoda, Raymond E.: *See—*
Luborsky, Fred E.; and Skoda, Raymond E., 3,691,032.
Skodak, Clifford A. Fluid distributing apparatus. 3,697,001, 10-10-72, Cl. 239-521.000.
Skogen, Robert O.: *See—*
Zetterlund, Stanley L.; and Skogen, Robert O., 3,675,587.
Skogit Corporation: *See—*
Roller, Robert L., 3,684,113.
Skogmo, David G., to United States of America, Atomic Energy Commission. Generalized circuit. 3,634,731, 1-11-72, Cl. 317-101.
Skogsholm, Einar Aasen: *See—*
Graf, Carlton Eugene; Skogsholm, Einar Aasen; and Volkmann, Werner Karl, 3,641,421.
Skokan, Zdenek E., to Hewlett-Packard Company. Logic gate. 3,643,109, 2-15-72, Cl. 307-235.
Skold, Mats Folke. Spacer clip for joining and supporting crosswisely extending reinforcement. 3,694,988, 10-3-72, Cl. 52-678.000.
Skoldenfelt, Sven H.: *See—*
Bergquist, Nils R.; and Skoldenfelt, Sven H., 3,682,323.
Skoldkvist, Amy Maria: *See—*
Skoldkvist, Helge Natanael, 3,694,312.
Skoldkvist, Hans Marten: *See—*
Skoldkvist, Helge Natanael, 3,694,312.
Skoldkvist, Helge Natanael; deceased (Skoldkvist, Amy Maria; Skoldkvist, Hans Marten; and Paget, Birgitta Helena; sole heirs). Disintegrating and deflocculating device in inlet boxes of paper-making machines. 3,694,312, 9-26-72, Cl. 162-342.000.
Skolmutch, Jon S.: *See—*
Anders, Walter G.; and Skolmutch, Jon S., 3,639,023.
Skolnick, Michael L.: *See—*
Buczek, Carl J.; Skolnick, Michael L.; and Freiberg, Robert J., 3,646,468.
Buczek, Carl J.; and Skolnick, Michael L., 3,646,469.
Lee, Paul H.; and Skolnick, Michael L., 3,697,887.
Skolnick, Michael L.; and Buczek, Carl J., to United Aircraft Corporation. Cryogenically cooled Faraday rotator element. 3,697,151, 10-10-72, Cl. 350-151.000.
Skolnick, Michael L.; and Buczek, Carl J., to United Aircraft Corporation. Nonresonant interferometric optical isolator. 3,700,309, 10-24-72, Cl. 350-163.000.
Skomoroski, Robert M., to International Nickel Company, Inc., The. Iridium plating. 3,639,219, 2-1-72, Cl. 204-47.
Skonare, Per: *See—*
Stahl, Nils Evert Johan; and Skonare, Per, 3,671,097.
Skoog, Hilding G. A., to Svenska Dalaregister AB. Information transmitting device. 3,675,109, 7-4-72, Cl. 321-2.000.
Skoog, Ivan H., to Minnesota Mining and Manufacturing Company. Photographic silver halide emulsions containing couplers with fluoro-aliphatic-sulfonyloxy groups. 3,681,076, 8-1-72, Cl. 96-100.000.
Skoog, Ralph E.: *See—*
Steiger, Robert W.; and Skoog, Ralph E., 3,683,332.
Skopalik, Josef; Svoboda, Vladimir; and Opatril, Vaclav, to Elitex, Zavody textilniho strojrenstvi generalni reditelstvi. Apparatus for forming a system of weft threads for further processing in textile machines. 3,705,503, 12-12-72, Cl. 66-84.000.
Skora, Robert F., to Kimberly-Clark Corporation. Sanitary napkin with improved wrap material. 3,665,922, 5-30-72, Cl. 128-290.
Skorcz, Joseph A.; Suh, John T.; and Judd, Claude I., to Colgate-Palmolive Company. 5-Morpholinyl-2,1-benzisothiazolines. 3,635,964, 1-18-72, Cl. 260-247.1.
Skorcz, Joseph A.; and Suh, John T., to Colgate-Palmolive Company. 1-Aryl-5-hydroxyalkyl-hydantoin. 3,651,079, 3-21-72, Cl. 260-309.5.
Skorcz, Joseph A.; Suh, John T.; and Judd, Claude I., to Colgate-Palmolive Company. 3-Morpholino alkyl 2,1-benzisothiazolines. 3,657,238, 4-18-72, Cl. 260-247.1.
Skorcz, Joseph A. L-Tyrosyl-1-aminocyclopentane-1-carbonyl-L-phenylalanine. 3,704,288, 11-28-72, Cl. 260-112.500.
Skorcz, Joseph A.; Suh, John T.; and Judd, Claude I. 5-Oxomorpholinyl-2,1-benzisothiazolines. 3,704,299, 11-28-72, Cl. 260-247.100.
Skorik, Alexandr Grigorievich: *See—*
Sitnikov, Leonid Semenovich; Utyakov, Lev Lazarevich; and Skorik, Alexandr Grigorievich, 3,683,207.
Skoroszewski, Wladyslaw H.: *See—*
Vernon, Brian J.; and Skoroszewski, Wladyslaw H., 3,672,013.

- Skoroszewski, Wladyslaw H.; and Stones, Dennis S., to Shell Oil Company. Process and apparatus for manufacturing fibers or yarns from molecularly orientable organic polymeric films. 3,697,636, 10-10-72, Cl. 264-147.000.
Skorupsky, Boris Pavlovich: *See—*
Tselikov, Alexandr Ivanovich; Grum-Grzhimailo, Nikolai Alexeevich; Verderevsky, Vadim Anatolievich; Vernik, Alexandr Borisovich; Skorupsky, Boris Pavlovich; Kazakevich, Igor Il'arionovich; and Kuznetsov, Ivan Vasilievich, 3,661,314.
Skoultschi, Martin; and Meier, Eric A., to National Starch and Chemical Corporation. Ethylenically unsaturated derivatives of 4-aminobenzoic acid and polymers prepared therefrom. 3,666,732, 5-30-72, Cl. 260-78.5bb.
Skowronski, Steve J.: *See—*
Beeler, Allan E.; and Skowronski, Steve J., 3,653,401.
Skraba, Frank W.: *See—*
Mitchell, Norris W.; Skraba, Frank W.; and Houston, William L., Jr., 3,681,897.
Skrabek, Emanuel Andrew; and Trimmer, Donald Smith, to Teledyne, Inc. Thermoelectric alloys. 3,695,867, 10-3-72, Cl. 75-134.00g.
Skralskis, Edward P., to Omark Industries, Inc. Energy absorbing structures. 3,706,359, 12-19-72, Cl. 188-1.00c.
Skreiner, Klaus M.: *See—*
Barkan, Philip; and Skreiner, Klaus M., 3,663,906.
Skrentner, Frank C., to La Salle Machine Tool, Inc. Method for machining spaced surfaces. 3,670,607, 6-20-72, Cl. 82-1.00c.
Skrentner, James A., to La Salle Machine Tool, Inc. Hydraulically operated tool compensator unit. 3,677,115, 7-18-72, Cl. 82-24.000.
Skrepek, Jan: *See—*
Peschl, Ervin; and Skrepek, Jan, 3,688,524.
Skrpko, Gely Fomich: *See—*
Vereschagin, Leonid Fedorovich; Yakovlev, Evgeny Nikolaevich; Konyaev, Yuri Sergeevich; Polyakov, Evgeny Valentinovich; Novikov, Albert Pavlovich; Bakul, Valentin Nikolaevich; Skripko, Gely Fomich; and Tsypin, Nekhemian Veniaminovich, 3,694,177.
Skrpko, Leonid Alexandrovich; Rozantsev, Eduard Grigorievich; and Polotovskaya, Lidia Grigorievna. Method of preparing disubstituted di(p-arylamino-phenoxy) silanes. 3,641,091, 2-8-72, Cl. 260-448.8.
Skrivan, Joseph Francis, to American Cyanamid Company. Production of phosphorus. 3,679,363, 7-25-72, Cl. 23-223.000.
Skrivanek, Ladislav: *See—*
Salz, Karl; and Skrivane, Ladislav, 3,698,925.
Skrobisch, Alfred, to Allard Instrument Corporation. Limited angle D.C. torque motor. 3,644,763, 2-22-72, Cl. 310-36.
Skrobisch, Alfred, to Allard Instrument Corporation. Segmental readout device. 3,668,700, 6-6-72, Cl. 340-378.
Skromme, Arnold Burton; Lindstrom, Harold Richard; Henningsen, Etla August; Beldin, Royal Lowell; Sorlie, Donald Thomas; and Eckert, Elmer Richard, to Deere & Company. Feed-mixing apparatus. 3,667,734, 6-6-72, Cl. 259-44.000.
Skropsky, Voldemar Petrovich: *See—*
Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skropsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leenieux, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreievich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.
Skrypa, Michael J.: *See—*
Paterson, Richard M. L.; and Skrypa, Michael J., 3,656,973.
Skuin, Petar: *See—*
Keller, Gunter; Knauff, Gunter; Skuin, Petar; and Vogt, Edwin, 3,649,817.
Skuja, Ivars M., to Audiscan Incorporated. Film projection system. 3,702,721, 11-14-72, Cl. 353-19.000.
Skulsky, Yuri Valentinovich; Boretsky, Vasily Grigorievich; Sakharov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievich; Schukin, Pavel Ivanovich; Danilkin, Ivan Petrovich; Zelensky, Vladimir Filippovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgamovich; and Sokirko, Vasily Andreievich. Device for removing burr formed during resistance butt welding of casing pipes. 3,657,962, 4-25-72, Cl. 90-24.
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Trimble, Cebern B.; and Skutt, Robert R., 3,672,043.
Skuttle Manufacturing Company: *See—*
Stiles, Walter R., 3,640,515.
Skvortsov, Boris Vasilievich: *See—*
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Sysun, Viktor Viktorovich; Skvortsov, Boris Vasilievich; Basov, Yuri Georgievich; and Roldugin, Vladimir Ivanovich, 3,703,658.
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Kandelaki, David Georgievich; Chargeishvili, Tengiz Sergeevich; and Skvortsov, Georgy Alexandrovich, 3,695,977.
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Skwarek, Frank J.; and Erickson, John E., 3,637,151.
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Skytta, Osmo. Bearing box support for the shaft of a drying cylinder in a paper machine. 3,704,921, 12-5-72, Cl. 308-22.000.
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Slaasted, Raymond S., to Modine Manufacturing Company. Inlet fitting for an automotive air conditioner condenser. 3,666,294, 5-30-72, Cl. 285-114.000.
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Slack, Vaughn H.; and Koens, Gillian Peter, to Farm Automatic Feeding Limited. Raw organic material cooker. 3,703,861, 11-28-72, Cl. 99-443.000.
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Wenstrom, Richard T.; and Gorton, Thomas S., Jr., 3,665,554.
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Slade, Herbert J. Window well cover. 3,703,791, 11-28-72, Cl. 52-107.000.
Slade, William J., to Campbell Soup Company. Can end with removable tab closure. 3,662,914, 5-16-72, Cl. 220-24.
Slade, Winton Lloyd, to Raybestos-Manhattan, Inc. Method for producing electrically conductive tetrafluoroethylene polymer tubing. 3,658,976, 4-25-72, Cl. 264-105.
Sladec, Theodore E.; Palmer, John E.; and Steele, Michael F., to Squehanna Corporation, The. Apparatus for confining material floating on water. 3,638,429, 2-1-72, Cl. 61-1.
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Knudsen, Erik Stenberg; Iversen, Svend Erik; Lund, Svend Aage; and Northeved, Allan, 3,671,858.
Slama, Karel: *See—*
Hejnov, Karel; Jarolim, Vaclav; Slama, Karel; and Sorm, Frantisek, 3,636,018.

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- Slan, Jack, to Dominion Luggage Co., Limited. Method for applying bumper strip to luggage piece. 3,694,540, 9-26-72, Cl. 264-230.000.
- Slana, Matthew Francis, to Bell Telephone Laboratories, Incorporated. Pulse code modulation multiplex system. 3,668,291, 6-6-72, Cl. 179-15.0ap.
- Slanker, Daniel R.; and Slanker, Edwin E. Power driven reciprocating bone surgery instrument. 3,640,280, 2-8-72, Cl. 128-317.
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- Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovitch; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itsikson, Boris Semenovitch; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorievich, 3,705,793.
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- Rose, Edward A.; Krohn, Richard H.; and Slater, Donald E., 3,704,461.
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- Hoehn, Rudolph; and Jadatz, Harald B., 3,684,847.
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- Houston, Herbert James; Baird, Robert Gordon; Bolt, Kenneth Dale; and Gretzinger, Adolf, 3,633,858.
- Slater, Raymond L.: See—
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- Jennings, Brian Edmund; Ludekens, William Louis Walle; and Slater, Robert Edward, 3,642,680.
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- Slater, William L.: See—
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- Slates, Elmer F., to United States of America, Navy. Belt driven pitch cycloidal propeller. 3,639,077, 2-1-72, Cl. 416-111.
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- Slator, Damon T.; and Peil, Archie W., to Bowen Tools, Inc. Tubing hanger assembly and method of using same. 3,675,719, 7-11-72, Cl. 166-297.000.
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- McClure, James D.; and Slauch, Lynn H., 3,646,116.
- Nakamaye, Kay L.; Slauch, Lynn H.; Spooncer, William W.; and Volger, Hendrik C., 3,641,170.
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- Slauts, John, to United States of America, Army. Lacing lock for hood. 3,696,474, 10-10-72, Cl. 24-266.000.
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- Slavetsky-Kotvitsky, Eduard Sebastyanovich: See—
- Budman, Moisei Izrailevich; Kaganovsky, Frederik Isaakovich; Kapitanov, Nikolai Ivanovich; Karzov, Jury Nikolaevich; Nadtochenko, Andrei Fedorovich; Slavetsky-Kotvitsky, Eduard Sebastyanovich; and Shorokhov, Leonid Pavlovich, 3,668,921.
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- Slavik, Ferdinand M.: See—
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- Slavin, Martin J., to American Electronic Laboratories, Inc. Multiplex terminal with redundancy reduction. 3,659,052, 4-25-72, Cl. 179-15.
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- Slavin, Peter E., to Intelligent Instruments, Inc. Display system. 3,641,554, 2-8-72, Cl. 340-324.
- Slavinsky, Zunya Mikhalevich: See—
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- Slawinski, Frank E., to ICI America Inc. Packing apparatus and method. 3,702,147, 11-7-72, Cl. 141-12.000.
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- Slawson, Kenneth Leonard, to Houdaille Industries, Inc. Numerical control system and method. 3,634,662, 1-11-72, Cl. 235-151.11.
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- Slaybaugh, Loren E., to Republic Industries Inc. Sliding door operator. 3,670,455, 6-20-72, Cl. 49-360.000.
- Slayden, James D., to Avco Corporation. Modular building. 3,662,508, 5-16-72, Cl. 52-393.000.
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- Slegten, Pierre Arsene. Automatic grading linings for cylindrical tube or similar mills. 3,677,479, 7-18-72, Cl. 241-183.000.
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- Slepicka, Kenneth L.: See—
- Patzelt, Harold L.; Connelly, Lawrence J.; Ballweber, Edward G.; Korzenski, David B.; and Slepicka, Kenneth L., 3,663,518.
- Slepp, Alice C.: See—
- Boucher, Wilfred M.; Kurilla, John; and Slepp, Alice C., 3,664,335.
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- Glankowski, Edward J.; and Slettinger, Meyer, 3,637,766.
- Pines, Seemon H.; and Slettinger, Meyer, 3,676,453.
- Reinhold, Donald F.; Slettinger, Meyer; and Chemerda, John M., 3,658,876.
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- Bleiman, Lewis W., 3,646,536.
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- Lewis, Martyn A.; and Domin, Siegfried, 3,665,500.
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- Lender, Chester A., 3,661,042.
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- Sligh, Cecil E.: See—
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- Billeter, Henry R., 3,637,054.
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- Schmitz, Albert; Mulder, Cornelis; and Slob, Arie, 3,702,428.
- Van Essen, Hendrik Arie; and Slob, Arie, 3,688,128.
- Slobbe, Walter W.: See—
- Evand, Lyle W.; and Slobbe, Walter W., 3,689,265.
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Hall, Nelson Lee; and Slocum, Donald Hillman, 3,706,825.

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McIntosh, Harold A.; Slocum, Gordon K.; and Koskolos, Nick J., 3,652,195.

McIntosh, Harold A.; Dykzeul, Theodore J.; Slocum, Gordon K.; Rattan, William D.; and Murrell, Donald K., 3,662,949.

McIntosh, Harold A.; Slocum, Gordon K.; and Rattan, William D., 3,662,950.

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Slojowski, Francis E.: *See—*
Artz, Walter M.; Cornelius, Kenneth R.; Olson, John W.; Signor, Gary R.; and Slojowski, Francis E., 3,641,505.

Sloka, William Edward, to Union Carbide Corporation. Process for producing carbon fibers. 3,652,221, 3-28-72, Cl. 23-209.4.

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Grunwald, John J.; Rhodenizer, Harold L.; and Slominski, Leo J., 3,694,250.

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Hansen, James H.; Leedy, Nelson J.; and Slonaker, Robert O., 3,685,978.

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Farman, Charles E.; Green, Thomas C.; Pepper, Hurley D.; and Slone, Samuel, 3,686,115.

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Popov, Boris Vasilievich; Slonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Zhukov, Gennady Konstantinovich; and Zhokhova, Olga Samuilovna, 3,672,197.

Zhukov, Gennady Konstantinovich; Krylov, Nikolai Ivanovich; Lebedev, Vyacheslav Ivanovich; Popov, Boris Vasilievich; Slonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Vasilenko, Sergei Iosifovich; Kondratiev, Valentin Vasilievich; and Krokhnin, Nests Ivanovich, 3,633,397.

Slonimsky, Alexandr Borisovich: *See—*
Maximovich, Boleslav Ivanovich; Dudko, Daniil Andreevich; Agafonov, Nikolai Georgievich; Maximov, Igor Petrovich; Andreev, Vadim Grigorievich; Lepilov, Nikolai Yakovlevich; Svinov, Alexei Kapitonovich; Slonimsky, Alexandr Borisovich; Volk, Boris Zakharovich; Gubin, Alexandr Ivanovich; and Katsman, Berta Osipovna, 3,677,330.

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Slope Incorporated: *See—*
Drapeau, Raoul E., 3,700,807.

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Fegan, Lloyd V., Jr.; and Sloughfy, James L., 3,684,478.

Slouka, Richard A.: *See—*
Fulton, Bertram A.; and Slouka, Richard A., 3,693,258.

Slovacek, Alois T., Jr. Valve tray for a musical instrument. 3,635,118, 1-18-72, Cl. 84-397.

Slover, Vasek R.: *See—*
Glenn, Edwin E., Jr.; Slover, Vasek R.; and Strubhar, Malcolm K., 3,705,626.

Slowig, Walter D.: *See—*
Rowley, Martin E.; Slowig, Walter D.; and Smith, Carl F., 3,636,150.

Slown, Harold M. Hoist and frame for boat and trailer. 3,648,866, 3-14-72, Cl. 214-450.

S.L.R. Systems, Inc.: *See—*
Gold, Ronald J., 3,645,485.

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Appeldoorn, Jacques W. J.; and Sluijters, Robert, 3,701,619.

Leibbrand, Bertus; Mertens, Johan J.; Ploeger, Harm A.; Sluijters, Robert; and Van Assendelft, Leendert, 3,706,192.

Slumberland Group Limited: *See—*
Pearson, George H., 3,685,062.

Sluse, Guy; and Joannes, Gustave, to Solvay & Cie. Process for the coating of electrodes. 3,668,005, 6-6-72, Cl. 117-215.000.

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Finnegan, Edward D.; Harper, Leonard Roy; Mitrofanoff, Nicholas S.; and Slutman, Allen C., 3,701,105.

Slutsky, Arthur Samuel. Method and apparatus of digitizing analog records. 3,671,716, 6-20-72, Cl. 235-61.60a.

Slutsky, Linda F. Educational color association game. 3,690,671, 9-12-72, Cl. 273-153.00r.

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Slye, Norman J.: *See—*
Krueger, Archie S.; and Slye, Norman J., 3,672,552.

Smadar, Yechiel; Roth, Howard; and McCarthy, John P., to DCA Food Industries, Inc. Method and apparatus for preparing food products. 3,650,765, 3-21-72, Cl. 99-100.

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Smaikin, Viktor Gavrilovich: *See—*
Agalakov, Viktor Iosifovich; Guseynikov, Eduard Mitrofanovich; and Smaikin, Viktor Gavrilovich, 3,683,217.

Smalcl, Frantisek: *See—*
Bayer, Oldrich; Snasel, Josef; Premyslovsky, Jiri; and Smalcl, Frantisek, 3,704,654.

Smale, Charles H., to General Motors Corporation. Jet propulsion nozzle. 3,690,562, 9-12-72, Cl. 239-265.290.

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Smalinskias, Steps: *See—*
Borneman, Karl J.; Byler, Richard E.; Roberts, Paul G.; and Smalinskias, Steps, 3,706,240.

Lemieux, George E.; and Smalinskias, Steps, 3,688,606.

Small, Bernard J. Apparatus and process for forming tubular bodies. 3,646,657, 3-7-72, Cl. 29-200.

Small, D. Richard: *See—*
Kaloustian, Arpiar; and Small, D. Richard, 3,693,739.

Small, Edward E. Template controlled bowling ball drilling machine. 3,689,165, 9-5-72, Cl. 408-3.000.

Small, Fred, to Gullick Dobson Limited. Mine roof supports. 3,677,603, 7-18-72, Cl. 299-31.000.

Small, Irwin A. Drill guide for mandibular staple and staple construction. 3,664,022, 5-23-72, Cl. 32-2.000.

Small, Isadore, III: *See—*
Elliot, William H.; and Small, Isadore, III, 3,641,397.

Small, Norma. Composite hair curler. 3,682,182, 8-8-72, Cl. 132-40.000.

Small, Owen M., to Owens-Illinois, Inc. Pressurizer nozzle. 3,652,253, 3-28-72, Cl. 65-184.

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Ellers, Frederick S.; Small, Sam W.; and Serpas, Luis B., 3,674,062.

Small World Importing Corporation: *See—*
Lerner, Charlotte F., 3,696,918.

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Smaller, Philip; and Treves, David, to Ampex Corporation. Modulated magnetooptic readout system. 3,701,133, 10-24-72, Cl. 340-174.10m.

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Hartford, Winslow H.; and Smalley, Edmund W., 3,691,027.

Smalley, Rodney Roger: *See—*
Current, John Marvin; and Smalley, Rodney Roger, 3,695,965.

Smalligan, Wayne J.: *See—*

Kelly, Vincent J.; Smalligan, Wayne J.; and Cloud, Larry L., 3,690,894.

Smalling, Claude W., Jr. Process for the vaporization of alkyl aromatic liquid feeds with removal of high boilers. 3,679,761, 7-25-72, Cl. 260-672.0nc.

Smallwood, Donald L.: *See—*
Wilder, Paul R.; and Smallwood, Donald L., 3,704,817.

Smarook, Walter H.: *See—*
Chow, Sui-Wu; and Smarook, Walter H., 3,640,838.

Purcell, Chester L.; and Smarook, Walter H., 3,674,896.

Smarook, Walter Henry: *See—*
Lundberg, Robert Dean; Koleske, Joseph Victor; Pollart, Dale Flavian; and Smarook, Walter Henry, 3,641,204.

Smars, Erik Algot, to AGA Aktiebolag. Process and apparatus for effecting high gas flow in discharge tube of gas laser. 3,671,883, 6-20-72, Cl. 331-94.500.

Smart, Bruce C.: *See—*
Craigne, William J. S.; Ritcey, Gordon M.; Joe, Edwin Glendon; Melvanin, William; and Smart, Bruce C., 3,702,883.

Smart, Edwin Allen, to Bradley Washfountain Co. Control member for proportioning valves. 3,646,966, 3-7-72, Cl. 137-625.4.

Smart, Graham Michael: *See—*
Miller, Glyn; and Smart, Graham Michael, 3,639,645.

Smart, Ian Low: *See—*
Mayers, Colin Clayton, 3,673,042.

Smart, Lee W.: *See—*
Gordon, Dale I.; and Smart, Lee W., 3,686,523.

Smart, Raymond C.: *See—*
Kuehl, Donald K.; and Smart, Raymond C., 3,632,063.

Smart, Raymond C., to United Aircraft Corporation. Reactor seal. 3,669,065, 6-13-72, Cl. 118-48.000.

Smatko, Joseph S.: *See—*
Strier, Murray P.; and Smatko, Joseph S., 3,661,645.

Strier, Murray P.; and Smatko, Joseph S., 3,706,601.

Smatkr, Joseph S., to McDonnell Douglas Corporation. Low-gassing battery separator and method of production. 3,703,414, 11-21-72, Cl. 136-30.000.

Smaxwill, Robert M.: *See—*
Baruth, Elmore J.; and Smaxwill, Robert M., 3,649,974.

S.M.B. Sondermaschinen GmbH: *See—*
Specht, Wolfgang; and Bertram, Bernd, 3,635,160.

Smead, Robert G.; and Bentsen, Louis J., to Graco Inc., mesne. Electrostatic spray gun nozzle and air cap. 3,672,569, 6-27-72, Cl. 239-15.000.

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Smedley, Anderson B.: *See—*
Smedley, Paul A.; and Smedley, Anderson B., 3,668,341.

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Smedley, Richard W. Lock for skis. 3,636,739, 1-25-72, Cl. 70-58.

Smedley, Richard W. Auxiliary oil seal. 3,689,084, 9-5-72, Cl. 277-147.000.

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Smeets, Alfred, to Citrex, S.A. Bleaching and softening agent. 3,686,126, 8-22-72, Cl. 252-99.000.

Smeets, Fred, to N.V. La Citrique Belge. Unsaturated carboxylic salt materials and derivatives thereof. 3,699,059, 10-17-72, Cl. 252-557.000.

Smeins, Craig B.: *See—*
Arjani, Farouk D.; Campbell, Kenneth C.; and Smeins, Craig B., 3,664,479.

Smejkal, Hellmuth: *See—*
Schweg, Otto; Smejkal, Hellmuth; Vereb, Hans; and Eicher, Karl, 3,662,447.

Smekhov, Vitaly Konstantinovich: *See—*
Amosov, Pavel Evgenievich; Imyaninov, Leonid Mikhailovich; Smekhov, Vitaly Konstantinovich; and Trofimov, Valery Leonidovich, 3,666,384.

Amosov, Pavel Evgenievich; Smekhov, Vitaly Konstantinovich; Trofimov, Valery Leonidovich; Shvarts, Aveli Isaich; Shnepp, Vladimir Borisovich; and Razumovsky, Alexandr Petrovich, 3,692,441.

Smelt, William Harry: *See—*
Fereday, Stanley; and Smelt, William Harry, 3,667,271.

Smeltz, Kenneth C., to Du Pont de Nemours, E. I., and Company. α -Polyfluoroalkyl acrylic acids and derivatives. 3,639,438, 2-1-72, Cl. 260-408.

Smeltzer, John F. Combination fishing rod and flashlight holder attachment. 3,667,708, 6-6-72, Cl. 248-39.000.

Smerillo, John A.: *See—*
Wainer, Eugene; Petro, Victor P.; Fox, Robert D.; Shirey, John E.; and Smerillo, John A., 3,660,096.

Smernoff, Ronald B., to Oxford Laboratories. Chromatography method and apparatus. 3,640,687, 2-8-72, Cl. 23-230.

Smernoff, Ronald B., to Oxford Laboratories. Measuring triglyceride and cholesterol in blood plasma or serum. 3,645,688, 2-29-72, Cl. 23-230.

Smerz, Otto: *See—*
Frischkorn, Hans; Pintschovius, Ulrich; Schinzel, Erich; and Smerz, Otto, 3,641,051.

Rosch, Gunter; Linke, Werner; Smerz, Otto; and Schinzel, Erich, 3,690,947.

Smestad, Dale E.; and Quackenbush, Nelson E., to United States of America, Army. Heat resistant coating for solder connections. 3,668,174, 6-6-72, Cl. 260-373.00b.

Smetana, Richard D., to Texaco Development Corporation. Epoxidation of olefin with an oxolane. 3,637,768, 1-25-72, Cl. 260-348.5.

Smetana, Richard D.; Chafetz, Harry; Arkell, Alfred; and McMahon, Matthew A., to Texaco Inc. Hydrocarbyl epoxide manufacture. 3,642,831, 2-15-72, Cl. 260-348.5.

Smetana, Richard D., to Texaco Inc. Alkanone manufacture. 3,646,217, 2-29-72, Cl. 260-593.

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Smetana, Richard D., to Texaco, Inc. Amine oxide preparation. 3,657,251, 4-18-72, Cl. 260-290.

Smetana, Richard Denis; Chafetz, Harry; and Arkell, Alfred, to Texaco Inc. Epoxide preparation. 3,642,832, 2-15-72, Cl. 260-348.5.

Smets, Georges Joseph: *See—*
Delzenne, Gerard Albert; Smets, Georges Joseph; and Hoefnagels, Jan Antonius, 3,652,285.

Hoefnagels, Jan Antonius; Hiatt, Norman A.; and Smets, Georges Joseph, 3,696,098.

Smeulers, Wouter, to U.S. Philips Corporation. Slicing synchronizing pulse separator circuit. 3,706,847, 12-19-72, Cl. 178-7.350.

Smialowski, Antoni J.: *See—*
Blachut, Theodore J.; Smialowski, Antoni J.; Schut, Gerhardus H.; and Carman, Philip D., 3,692,405.

Smid, Jacoba P. E.; van der Ven, Servaas; van der Vliet, Hendrik; and Van Acker, Eduard M. A. A. J., to Shell Oil Company. Thermally stable poly(beta-lactone) polymers. 3,632,552, 1-4-72, Cl. 260-45.7.

Smidt-Hayer, Arnold J.: *See—*
Morley, Ronald I.; Biernat, Raymond W.; and Smidt-Hayer, Arnold J., 3,688,112.

Morley, Ronald I.; Biernat, Raymond W.; and Smidt-Hayer, Arnold J., 3,702,400.

Morley, Ronald I.; Biernat, Raymond W.; and Smidt-Hayer, Arnold J., 3,707,435.

Smidh, F. L., & Co.: *See—*
Andersen, Axel Brix, 3,646,838.

Fagerholt, Gunnar Rindal, 3,633,832.

Heilmann, Thorbjorn, 3,638,400.

Jensen, Flemming Edvin, 3,704,873.

Sylvest, Karl Jens, 3,703,275.

Smierciak, Edward S.; and Butler, Thomas R., to International Telephone and Telegraph Corporation. Sequential dot interlaced color television system. 3,636,244, 1-18-72, Cl. 178-5.2.

Smierciak, Walter: *See—*
Kartasuk, Raymond H.; and Smierciak, Walter, 3,675,916.

Smirnnow, George A. Vacuum casting process. 3,677,332, 7-18-72, Cl. 164-133.000.

Smiley, David E.: *See—*
Case, Forrest N.; Garrison, Arthur W.; Kau, Donald L.; and Smiley, David E., 3,640,808.

Case, Forrest N.; and Smiley, David E., 3,650,926.

Smiley, Larry L.: *See—*
Wollin, Roger W.; and Smiley, Larry L., 3,631,646.

Smiley, Parker C.: *See—*
Neill, Cormac G.; and Smiley, Parker C., 3,648,967.

Smiley, William D.: *See—*
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Smiley, Yale H., to Uniroyal Ltd. Fabric packaging. 3,674,222, 7-4-72, Cl. 242-77.100.

Smilg, Benjamin: *See—*
Isaacson, Max; and Smilg, Benjamin, 3,643,384.

Isaacson, Max; and Smilg, Benjamin, 3,694,968.

Smilgys, Bruno S.; and Ritchie, Robert C., to Veeder Industries Inc. Printer. 3,668,375, 6-6-72, Cl. 235-94.00r.

Smiljanic, John P.: *See—*
Rott, Dennis A.; and Smiljanic, John P., 3,647,730.

Smilling, Carl W., to Bethlehem Steel Corporation. Wire rope with permanently lubricated core. 3,705,489, 12-12-72, Cl. 57-149.000.

Smiltneek, Ralmond J., to Logemann Brothers Company. Vibratory conveyor. 3,645,381, 2-29-72, Cl. 198-220.

Smirl, Richard L.; and Kerestury, Richard D. Fluid pressure modulating apparatus. 3,690,736, 9-12-72, Cl. 303-21.00f.

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- Smirmaul, Heinz J., to Corning Glass Works. Vortex generating sensor with secondary flow. 3,641,808, 2-15-72, Cl. 73-37.5.
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- Smirnov, Alexandr Fedorovich: *See—*
- Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadiyevich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
- Smirnov, Igor Nikolaevich: *See—*
- Britvin, Lev Nikolaevich; Sergeev, Vitaly Andreevich; Spassky, Konstantin Semenovich; Smirnov, Igor Nikolaevich; Scheglov, Gennadiy Mikhailovich; Shtelmakh, Alexandr Alexandrovich; Prudovsky, Boris Moiseevich; Karakhanian, Vladimir Karpovich; Ivanov, Viktor Vasilievich; and Semenov, Mikhail Ivanovich, 3,659,969.
- Smirnov, Leonid Nikolaevich: *See—*
- Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadiyevich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
- Smirnov, Stanislav Ivanovich: *See—*
- Ostrovsky, Grigory Arkadievich; Orlovsky, Anatoly Georgievich; Nikonov, Vladimir Filippovich; Kalner, Veniamin Davydovich; Shklyarov, Isaak Nokhimovich; Stepin, Anatoly Loginovich; Bysink, Alexandr Moiseevich; Shepelyakovskiy, Konstantin Zakharovich; and Smirnov, Stanislav Ivanovich, 3,655,466.
- Smirnov, Vasily Mikhailovich: *See—*
- Menchikov, Leonid Petrovich; Kopylov, Kim Ivanovich; Okun, Evsei Lvovich; Smirnov, Vasily Mikhailovich; Gavrikov, Viktor Stepanovich; Fridman, Ilya Davidovich; Markov, Vyacheslav Evgenievich; and Sopin, Alexandr Alexandrovich, 3,651,301.
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- Smit, Gesienus, to Scholten-Honig Research N.V. Coated paper. 3,682,733, 8-8-72, Cl. 117-156.000.
- Smit, Jacob M.: *See—*
- Van Der Linde, Wim; and Smit, Jacob M., 3,634,375.
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- Quist, Bernardus B.; and Smit, Jacobus A. J., 3,643,929.
- Smit, Jan; Baba, Paul David; and Argentina, Giltan Michael, to Ampex Corporation. Lithium titanium bismuth cobalt ferrites. 3,694,361, 9-26-72, Cl. 252-62.590.
- Smit Nijmegen Electrotechnische Fabrieken N.V.: *See—*
- Ribberink, Engelbertus, 3,633,508.
- Van Riemsdijk, Gerardus Adriaan, 3,643,154.
- Smit, Willem H.: *See—*
- De Groot, Johannes H.; Scheffer, Hendrik J.; and Smit, Willem H., 3,647,192.
- Smith & Stone Limited: *See—*
- Duffield, Joseph Frederick; and Godziemba-Dambski, Zdzislaw R. (said Duffield assor. to), 3,644,879.
- Smith & Wesson Chemical Company, Inc.: *See—*
- Crewe, John Mervyn, 3,674,174.
- Smith & Wesson Pyrotechnics, Inc.: *See—*
- Taylor, Leonard, 3,665,630.
- Smith, A. O., Corporation: *See—*
- Donovan, Glenn R., 3,689,976.
- Duncan, Angelo N., 3,705,574.
- Felt, Adolph E.; and Maklary, Joseph R., 3,665,742.
- Hamerski, Frank D., 3,646,874.
- Hammond, Ronald W., 3,643,820.
- Lusk, Donald I., 3,654,124.
- Maynard, John T., 3,668,493.
- Maynard, John T., 3,683,252.
- Petrigalla, Andrew, 3,675,105.
- Tur, Charles J., 3,681,984.
- Winstrom, Bertil G., 3,682,722.
- Smith, A. O., Corporation, mesne: *See—*
- Johnson, Junior L., 3,652,375.
- Smith, A. O., Harvestore Products, Inc.: *See—*
- Dissmeyer, Fred W.; and Olson, George E., 3,650,417.
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- Smith, A. O., Inland Inc., mesne: *See—*
- Huseby, Robert A., 3,687,654.
- Johnson, Milton, 3,668,024.
- Smith, Alan Ernest William: *See—*
- Hare, George Anthony; and Smith, Alan Ernest William, 3,676,115.
- Smith, Albert L., to Stauffer Chemical Company. Process for manufacturing high molecular weight triaryl phosphates and reaction products thereof. 3,639,544, 2-1-72, Cl. 260-966.
- Smith, Albert Richard, to British Industrial Sand Limited. Production of alpha-quartz-cristobalite silica for pottery. 3,660,123, 5-2-72, Cl. 106-39.
- Smith, Alfred George; and Provis, Colin Alfred, to Dexion Limited. Roller-way conveyors. 3,631,963, 1-4-72, Cl. 198-81.
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- Smith, Alfred H., to General Electric Company. Reinforcing silica filler. 3,635,743, 1-18-72, Cl. 106-288.
- Smith, Allen; and Moore, Colin Trevor, to Parsons, C. A., & Company, Limited. Steam turbines. 3,632,225, 1-4-72, Cl. 415-168.
- Smith, Allison L., to Owens-Illinois, Inc. Glass article having roughened, enamel surface and method for forming same. 3,705,050, 12-5-72, Cl. 117-46.0fa.
- Smith, Andrew I.; and Bryan, Roland J., Jr., to Monsanto Company. Antistatic nylon filaments. 3,696,078, 10-3-72, Cl. 260-78.00s.
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- Smith, Andrew W., Jr., to Westinghouse Electric Corporation. Calibration of rolling mill screwdown position regulator. 3,635,059, 1-18-72, Cl. 72-8.
- Smith, Andrew W., Jr., to Westinghouse Electric Corporation. Digital computer process control with operational learning procedure. 3,694,636, 9-26-72, Cl. 235-151.100.
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- Smith, Arnold Ray: *See—*
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- Smith, Arthur A. Free flow water system for asphalt rollers. 3,675,546, 7-11-72, Cl. 94-50.00r.
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- Smith, Arthur Ernest: *See—*
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- Smith, Arthur G.; and Turner, Allen H., to Ford Motor Company. Electrocoating apparatus with ionizing radiation means. 3,679,572, 7-25-72, Cl. 204-300.000.
- Smith, Arthur William: *See—*
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- Smith, Avery B., to Resource Control, Inc. Colorimetric indicator for the detection of nitrogen dioxide. 3,681,027, 8-1-72, Cl. 23-232.00r.
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- Smith, Bernard. Sailboat hydrofoils. 3,631,828, 1-4-72, Cl. 114-39.
- Smith, Bernard. Aerohydrofoil steering control. 3,646,902, 3-7-72, Cl. 114-66.5.
- Smith, Bernard; and DePietro, Anthony J. Safety bottle top. 3,698,585, 10-17-72, Cl. 215-9.000.
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- Smith, Billy E.: *See—*
- Brignac, Edmond P.; Smith, Billy E.; Smith, Wallace W.; and Solo, Emilio J., 3,651,201.
- Smith, Billy Eual: *See—*
- Lowry, Robert Arthur, Jr.; and Smith, Billy Eual, 3,702,787.
- Smith, Bissell J.: *See—*
- Stohrer, Charles E., Jr.; and Smith, Bissell J., 3,664,591.
- Smith, Bob G.: *See—*

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- Smith, Bob L. Fluidic phase shifter. 3,701,058, 10-24-72, Cl. 333-31.00a.
- Smith, Bradford Knox, to RCA Corporation. Process for coating flat-like surfaces. 3,652,323, 3-28-72, Cl. 117-97.
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- Smith, Brian W.: *See—*
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- Smith, Burton F. B.; and Siegmund, John M., to Allied Chemical Corporation. Apparatus for dispensing fluid mixtures in uniform proportions from pressure containers. 3,656,657, 4-18-72, Cl. 222-4.
- Smith, Burton H., to Raytheon Company. Solid state E. 3,646,467, 2-29-72, Cl. 330-53.
- Smith, Burton H., to Raytheon Company. Helix delay line for traveling wave devices. 3,670,196, 6-13-72, Cl. 315-3500.
- Smith, Bynum E.: *See—*
- Pickett, Wiley J.; and Smith, Bynum E., 3,673,313.
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- Smith, Carl: *See—*
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- Smith, Carl E., to Xerox Corporation. Adhesive applicator. 3,669,066, 6-13-72, Cl. 118-50.100.
- Smith, Carl F.: *See—*
- Rowley, Martin E.; Slowig, Walter D.; and Smith, Carl F., 3,636,150.
- Smith, Carl L.; and Nicklas, William H., to General Electric Company. Apparatus for aligning the shadow mask with respect to the face panel of a cathode ray tube. 3,653,112, 4-4-72, Cl. 29-203.
- Smith, Carl M., Jr.; and Miller, William R., to United States of America, Atomic Energy Commission. Self-adaptive welding torch controller. 3,646,309, 2-29-72, Cl. 219-125.
- Smith, Carroll G. Combination rotatable oil dip stick and wiper. 3,703,038, 11-21-72, Cl. 33-126.70r.
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- Smith, Charles Harry, to Rucker Company, The. Coupling. 3,638,971, 2-1-72, Cl. 285-74.
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- Smith, Charles N., to Insect-I-Var Corporation. Insect attracting and destroying device. 3,685,198, 8-22-72, Cl. 43-112.000.
- Smith, Charles Philip: *See—*
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- Smith, Charlie P.: *See—*
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- Smith, Clarence D., Jr. Garbage can holder. 3,655,158, 4-11-72, Cl. 248-154.
- Smith, Clarence G., to Mobil Oil Corporation. Seismic trace center-line generator. 3,704,450, 11-28-72, Cl. 340-172.600.
- Smith, Clarence M., to Westinghouse Electric Corporation. Electrical grounding receptacle. 3,636,494, 1-18-72, Cl. 339-14.
- Smith, Clarence T. Method and solution for maintaining biological activity in enzymes. 3,681,197, 8-1-72, Cl. 195-63.000.
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- Smith, Clive Valentine: *See—*
- Ogilvy, Harry Heggie; and Smith, Clive Valentine, 3,636,508.
- Smith, Cloyd D. Jet engine noise suppressor. 3,688,865, 9-5-72, Cl. 181-33.00h.
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- Smith, Colin, to Lummus Company, The. Pressure vessel seal. 3,695,482, 10-3-72, Cl. 220-46.0ms.
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- Woodhouse, Fred N.; and Smith, Craig F., 3,689,138.
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- Piper, Douglas E.; Jarvis, James G.; and Smith, Dale L., 3,654,893.
- Smith, Dale R., to York Research & Development Corporation. Trash pulverizer. 3,637,144, 1-25-72, Cl. 241-100.
- Smith, Dallas F.: *See—*
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- Cutler, Arthur S.; and Smith, Dallas F., 3,672,026.
- Smith, Dallas F., to General Electric Company. Apparatus for inserting coil side turn portions and insulators into the slots of a magnetic core. 3,698,063, 10-17-72, Cl. 29-205.00r.
- Smith, Daniel J.: *See—*
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- Smith, Daniel O., to Mobil Oil Corporation. Collapsible sanitary container and container liner. 3,684,155, 8-15-72, Cl. 229-148.000.
- Smith, Darrell S. Apparatus and method for transmitting messages to vehicles in preselected off the highway areas. 3,660,762, 5-2-72, Cl. 325-51.
- Smith, David F. Bonded plaster of paris bandage. 3,649,319, 3-14-72, Cl. 106-111.
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- Smith, Dean A.: *See—*
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- Smith, Dennis Clifford, to National Research Development Corporation. Surgical cements from zinc oxide and aqueous poly(acrylic acid). 3,655,605, 4-11-72, Cl. 260-29.6.
- Smith, Dennis W.: *See—*
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- Smith, Dexter William; and Williams, Alan. Rolls for use in manufacture of battery. 3,686,916, 8-29-72, Cl. 72-198.000.
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- Swisher, George W., Jr.; Smith, Don W.; and Snow, Ralph K., Jr., 3,637,036.
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- Smith, Donald A.; and Verdone, Joseph A., to Eastman Kodak Company. Sulfonated poly(vinyl alcohol) derivatives as absorbent layers in photographic processing webs. 3,647,464, 3-7-72, Cl. 96-76.
- Smith, Donald A., to Combustion Engineering, Inc. Wide angle solid cone spray nozzle capable of handling slurry flow. 3,666,183, 5-30-72, Cl. 239-463.000.
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- Smith, Donald A., to Eastman Kodak Company. Synthetic polymeric photographic emulsion vehicles. 3,700,456, 10-24-72, Cl. 96-114,000.
- Smith, Donald Arthur; and Copenhagen, Donald M., to Eastman Kodak Company. Photographic elements containing synthetic polymeric vehicles. 3,637,394, 1-25-72, Cl. 96-114.
- Smith, Donald Arthur, to Eastman Kodak Company. Ethylenically unsaturated cyans group-containing compounds. 3,658,878, 4-25-72, Cl. 260-465.4.
- Smith, Donald C. Drawing device or apparatus. 3,664,028, 5-23-72, Cl. 33-174.
- Smith, Donald D. Air deflection plate for a vehicle. 3,667,369, 6-6-72, Cl. 98-2.120.
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- Smith, Donald G., to Lockheed Aircraft Corporation. Auxiliary flap actuator for aircraft. 3,706,431, 12-19-72, Cl. 244-42.0da.
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- Smith, Donald N., to General Electric Company. System and method of channel performance monitoring. 3,694,643, 9-26-72, Cl. 235-181.000.
- Smith, Donald O.; Harte, Kenneth J.; and Cohen, Mitchell S., to Micro-Bit Corporation. Slow write-fast read memory method and system. 3,701,979, 10-31-72, Cl. 340-173.00r.
- Smith, Douglas. Pipe joint coupling with gasket seal. 3,633,928, 1-11-72, Cl. 277-206.
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- Smith, Earl E., to Lexalite Corporation. Replacement cover plate for electric outlet box. 3,636,236, 1-18-72, Cl. 174-66.
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- Smith, Edward C.; and Kimball, Carl P., to Neptune Meter Company. High speed calibration of liquid flow meters. 3,631,709, 1-4-72, Cl. 73-3.
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- Smith, Edward Peter, to BTR Industries Limited. Handrails for escalators and travelators. 3,633,725, 1-11-72, Cl. 198-16.
- Smith, Edward W.: See—
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- Smith, Eric, to Olin Corporation. Catalytic carbonylation of nitro compounds to prepare isocyanates. 3,636,027, 1-18-72, Cl. 260-453.
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- Smith, Ernest L., to Phillips Petroleum Company. Container and lid. 3,670,951, 6-20-72, Cl. 229-43.000.
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- Smith, Eugene C. Apparatus and method for securing a high vacuum for particle coating process. 3,649,339, 3-14-72, Cl. 117-106.
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- Smith, Forrest P., Jr., to United States Surgical Corporation. Staple cartridge with drive belt. 3,650,453, 3-21-72, Cl. 227-138.
- Smith, Francis Hughes, to Vickers Limited. Optical image splitting systems. 3,652,167, 3-28-72, Cl. 356-163.
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- Smith, Francis Hughes, to Vickers Limited. Optical field flattening devices. 3,677,621, 7-18-72, Cl. 350-157.000.
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- Smith, Frank Edward: See—
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- Smith, Frank W.; and Parker, Patrick N., to Atlantic Richfield Company. Method for inhibiting corrosion in a well. 3,654,993, 4-11-72, Cl. 166-279.
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- Smith, George Elwood, to Bell Telephone Laboratories, Incorporated. Interconnection of electrical devices. 3,675,319, 7-11-72, Cl. 29-625.000.
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- Smith, George M.: See—
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- Smith, George Paul: See—
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- Smith, George T. Swinging doll game. 3,702,699, 11-14-72, Cl. 273-1.
- Smith, George W. Sewage treatment apparatus and method. 3,703,462, 11-21-72, Cl. 210-7.000.
- Smith, George Wallace, Jr.: See—
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- Smith, Gerald B.: See—
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- Smith, Gerald C., to Eastman Kodak Company. Method and apparatus for correlating rejected photographic prints with corresponding photographic negatives. 3,706,373, 12-19-72, Cl. 209-73.000.
- Smith, Gerald H. Photoflash mounting adapter for close-up photography. 3,688,662, 9-5-72, Cl. 95-11.00r.
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- Smith, Glenn D., to Metal Improvement Company, Inc. Method of and apparatus for measuring intensity of peening in small diameter holes. 3,695,091, 10-3-72, Cl. 73-11.000.
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- Smith, Gordon E., to Medidyne Corporation. Method and apparatus for catheter injection. 3,703,174, 11-21-72, Cl. 128-214.400.
- Smith, Gordon Victor; and Ward, Eric John, to Sparcatron Limited. Gap-monitoring electric-discharge-machining apparatus. 3,673,371, 6-27-72, Cl. 219-69.00g.
- Smith, Grant M. Emulsion treater having infra-red heating units. 3,641,741, 2-15-72, Cl. 55-175.
- Smith, Gregory A., to Lyall Electric, Inc. Disconnect safety switch. 3,681,551, 8-1-72, Cl. 200-161.000.
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- Smith, H. Morton: See—
Malone, Joseph G.; and Smith, H. Morton, 3,687,170.
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- Smith, Harold Eugene, to Smithpac Canada Ltd. Refuse collecting apparatus and system. 3,647,095, 3-7-72, Cl. 214-41.
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- Smith, Harry A.; and Rooker, Bobbie E., to Dow Chemical Company, The. Adducts of N-substituted aziridines and organic acid anhydrides. 3,668,191, 6-6-72, Cl. 260-78.40r.
- Smith, Harry A., to Dow Chemical Company, The. Formaldehyde adducts of saccharides. 3,705,146, 12-5-72, Cl. 260-209.00r.
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- Smith, Herbert B., to Zito Company, Inc., The. Metal bromide system. 3,682,703, 8-8-72, Cl. 136-6.000.
- Smith, Herchel: See—
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- Buzby, George C., Jr.; Walk, Charles R.; and Smith, Herchel, 3,686,317.
- Douglas, George H.; Teller, Daniel M.; and Smith, Herchel, 3,644,440.
- Hughes, Gordon Alan; and Smith, Herchel, 3,666,858.
- Shah, Harshavadan C.; Buzby, George C., Jr.; and Smith, Herchel, 3,689,512.
- Stein, Reinhardt P.; and Smith, Herchel, 3,634,468.
- Stein, Reinhardt P.; and Smith, Herchel, 3,644,437.
- Stein, Reinhardt P.; Smith, Robert C., Jr.; and Smith, Herchel, 3,647,784.
- Stein, Reinhardt P.; and Smith, Herchel, 3,649,621.
- Stein, Reinhardt P.; and Smith, Herchel, 3,704,253.
- Tokolics, Joseph; Hughes, Gordon A.; and Smith, Herchel, 3,671,519.
- Yardley, John P.; and Smith, Herchel, 3,637,744.
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- Smith, Hugh R., Jr., to Air Reduction Company, Incorporated. Method for glow cleaning. 3,654,108, 4-4-72, Cl. 204-164.

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Garrett, William R., 3,697,141.
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Barnard, Dominic Paul Edmund, 3,643,255.
McDonald, Thomas Victor; and Stockley, Kenneth McDonald, 3,656,090.
- Monds, Derek Henry; and Wills, Brian Charles, 3,694,563.
- Smith, Terry Reginald, 3,699,914.
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Dixon, James W.; and Crews, Samuel T., Jr., 3,680,647.
Dixon, Robert L., 3,666,029.
Fischer, John F., 3,678,883.
Garner, Lloyd L., 3,680,873.
Garrett, William R., 3,698,411.
Hughes, Robert Q.; and Garrett William R., 3,680,646.
Kellner, Jackson M., 3,667,817.
Neilson, William J., 3,675,729.
Safar, Frank, 3,640,573.
Winter, Henry A., Jr.; Williams, Arthur M., Jr.; and Foss, Richard L., 3,670,831.
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- Smith, Irving. Self-erecting shadow box. 3,664,049, 5-23-72, Cl. 40-124.1.
- Smith, Irving N.; and Pfeffer, Jack R., to Owen-Corning Fiberglas Corporation. Method of producing graded fibrous filter media. 3,690,852, 9-12-72, Cl. 65-3.
- Smith, J. Harold, to Johnson & Johnson. Methods and apparatus for depositing powdered materials in patterned areas. 3,682,738, 8-8-72, Cl. 156-283.000.
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Boxer, Leo M.; and Boxer, Robert W., 3,703,974.
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- Smith, James Arthur. Machine tools. 3,685,394, 8-22-72, Cl. 90-89.000.
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Emmons, Howard W.; Yao, Cheng; and Smith, James B., 3,684,019.
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Keig, George A.; Smith, James C.; and Watts, John M. J., 3,655,415.
- Smith, James D.: *See—*
Hays, Willard C.; and Smith, James D., 3,691,940.
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Welbourn, Donald Burkewood; Smith, James Derek; and Buckley, Bruce Robert Ashworth, 3,702,043.
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- Smith, James E.; and Borgogno, Victor F., to Ainsworth, Wm., Inc. Balanced mass-moment balance beam with electrically conductive pivots. 3,685,604, 8-22-72, Cl. 177-184.000.
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Kish, Donald Eugene; and Smith, James Lanson, 3,697,963.
Kish, Donald Eugene; and Smith, James Lanson, 3,702,994.
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Cheney, Richard F.; and Smith, James S., 3,663,667.
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- Smith, James S., Jr.: *See—*
Brenig, Theodore; Smith, James S., Jr.; and Woodie, Paul E., Jr., 3,689,699.
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Maksymiak, John; Beach, Kenneth M., Jr.; and Smith, James W., 3,697,169.
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Magli, Hugo; and Smith, John, 3,651,321.
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Kamp, Ewald Albert; and Smith, John C., 3,680,175.
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Barnett, Joseph; and Smith, John D., 3,662,990.
Barnett, Joseph; and Smith, John D., 3,695,670.
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Blanchfield, Richard J.; and Smith, John F., 3,639,223.
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- Smith, John Henry William, to Microponent Development Ltd. Method of making multi layer circuit boards. 3,691,632, 9-19-72, Cl. 29-625.000.
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Leopold, Wilbur R., Jr.; Smith, John J.; Hackman, Frank C.; Luckenbill, Lawrence F.; and Daghe, Joseph L., 3,633,873.
- Leopold, Wilbur R., Jr.; Smith, John J.; Hackman, Frank C.; Luckenbill, Lawrence F.; and Daghe, Joseph L., 3,662,778.
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Ort, Eldon L.; Smith, John K.; and Kacergis, John A., 3,649,909.
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Goldthorp, David Clayton; Limiero, Albert David; and Smith, John Paul, 3,676,608.
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- Smith, John W.; and Pinkham, Roger A., to Graphic Transmission Systems, Inc. Facsimile recorder marking circuit. 3,694,571, 9-26-72, Cl. 178-6.60a.
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Mazdiyasi, Khodabakhsh S.; Dolloff, Richard T.; and Smith, Jonathan S., II, 3,647,364.
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- Smith, Joseph E., to Wolverine-Pentronix, Inc. Apparatus for injecting a fluid into powdered materials being compacted. 3,647,333, 3-7-72, Cl. 425-78.
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- Smith, Joseph E., to Wolverine-Pentronix, Inc. Die and punch assembly for compacting powder material. 3,671,157, 6-20-72, Cl. 425-78.000.
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Smith, Joseph E., Jr.; and Koen, A. D. (said Koen assor. to said), 3,651,872.

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Beer, Palle-Finn; and Smith, Kai Robert, 3,652,170.
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Weil, Edward D.; and Smith, Keith J., 3,644,415.
Weil, Edward D.; and Smith, Keith J., 3,644,416.
Weil, Edward D.; Smith, Keith J.; and Geering, Emil J., 3,657,447.
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Carne, Michael; Smith, Kenneth Cecil; and Webber, David Arthur, 3,707,066.
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Phelps, Weldon L.; and Smith, Kerwyn B., 3,654,518.
- Smith Kline & French Laboratories: *See—*
Actor, Philip Pau; and Pagano, Joseph Frank, 3,682,952.
Anderson, Elvin L.; and Graboyes, Harold, 3,692,834.
Berges, David A.; Dunn, George L.; and Hoover, John R. E., 3,701,775.
Blank, Benjamin; and Zuccarello, William A., 3,644,648.
Chow, Alfred W., 3,637,687.
Craig, Paul N.; and Zirkle, Charles L., 3,694,514.
Dowalo, Frederick G.; and Loev, Bernard, 3,661,944.
Dunn, George L.; and Hoover, John R. E., 3,639,613.
Dunn, George L., 3,694,455.
Dunn, George L.; and Hoover, John R. E., 3,707,480.
Edgerton, William H., 3,641,149.
Fielden, Roy; Green, Albert Lawrence; and Hills, Derek William, 3,655,757.
Gordon, Maxwell; and Weisbach, Jerry A., 3,632,627.
Gordon, Maxwell; and Stewart, Carleton C., 3,639,561.
Gordon, Maxwell; and Stewart, Carleton C., 3,639,562.
Grass, George M., Jr.; and Unangst, Raymond R., 3,655,864.
Grass, George M., Jr.; Parish, Roger C.; and Trei, John E., 3,660,562.
Holden, Kenneth G.; and Kerwin, James F., 3,644,527.
Jen, Timothy Yu-Wen; and Loev, Bernard, 3,658,958.
Kaiser, Carl; and Zirkle, Charles L., 3,637,827.
Kaiser, Carl; and Zirkle, Charles L., 3,655,667.
Kaiser, Carl; and Ross, Stephen T., 3,655,676.
Kaiser, Carl; and Zirkle, Charles L., 3,657,252.
Kaiser, Carl; and Ross, Stephen T., 3,657,319.
Kaiser, Carl; and Ross, Stephen T., 3,661,917.
Kaiser, Carl; and Zirkle, Charles L., 3,674,792.
Kaiser, Carl; and Zirkle, Charles L., 3,676,435.
Kaiser, Carl; and Zirkle, Charles L., 3,686,335.
Kaiser, Carl, 3,691,172.
Kaiser, Carl; and Ross, Stephen T., 3,705,169.
Loev, Bernard, 3,636,075.
Loev, Bernard, 3,637,737.
Loev, Bernard, 3,686,165.
Nemeth, Piroksa E.; and Sutton, Blaine M., 3,635,945.
Pagano, Joseph F., 3,694,447.
Parish, Roger C.; and Trei, John E., 3,639,621.
Parish, Roger C.; and Trei, John E., 3,663,710.
Pfeiffer, Francis R.; and Weisbach, Jerry A., 3,678,137.
Pfeiffer, Francis R., 3,681,480.
Pfeiffer, Francis R.; and Weisbach, Jerry A., 3,705,213.
Ross, Stephen T.; and Zirkle, Charles L., 3,679,693.
Stedman, Robert John, 3,641,148.
Sutton, Blaine M., 3,686,180.
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Kaiser, Carl; and Zirkle, Charles L., 3,673,176.
Kaiser, Carl; and Zirkle, Charles L., 3,681,461.
McGusty, Elizabeth R.; Sutton, Blaine M.; and Walz, Donald T., 3,676,554.
Pfeiffer, Francis R.; and Weisbach, Jerry A., 3,671,557.
Pfeiffer, Francis R.; and Weisbach, Jerry A., 3,671,563.
- Smith Kline Instruments, Inc.: *See—*
Kienitz, Martin E., 3,655,095.
- Liston, Max D., 3,664,744.
- Smith, Landon: *See—*
Dillard, Weldon B., 3,646,824.
- Smith, Larry S., to Robertshaw Controls Company. Pneumatic control system and pneumatic control device therefor or the like. 3,633,605, 1-11-72, Cl. 137-113.
- Smith, Laurence Philip: *See—*
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Powell, Howard E.; and Smith, Lawrence L., 3,649,220.
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Bryant, Ellis H., Jr.; and Smith, Leary W., 3,668,326.
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Cannon, Richard L.; and Smith, Leonard R. D., 3,685,383.
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Howe, Ralph; and Smith, Leslie Harold, 3,634,511.
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Culvenor, Claude Charles Joseph; Edgar, John Alexander; Smith, Leslie Walter; Tweeddale, Helen Joan; Jago, Marjorie; and French, Eric Ancelet, 3,705,905.
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Johnson, James T.; and Smith, Lester E., 3,642,304.
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Speziale, Angelo; and Smith, Lowell R., 3,665,023.
Speziale, Angelo John; and Smith, Lowell R., 3,642,863.
Speziale, Angelo John; and Smith, Lowell R., 3,642,893.
Wagner, Ovner R., Jr.; Smith, Lowell R.; and Osborn, Jack L., 3,656,550.
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Joujon-Roche, Phillip J.; and Smith, Loyd D., 3,691,469.
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Smith, Theodore M., 3,697,186.
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Smith, Theodore M., 3,697,186.
- Smith, Luther W. Light modulation in optic fiber. 3,645,603, 2-29-72, Cl. 350-149.
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- Smith, Lyle Douglas. Unauthorized entry indicator and method. 3,656,143, 4-11-72, Cl. 340-274.
- Smith, Malcolm C., to Frick Company. Carrier and drive means for two-axes type refrigerating conveyor. 3,666,083, 5-30-72, Cl. 198-136.000.
- Smith, Malcolm K., to Baker Castor Oil Company, The. Hydraulic brake fluid base oils. 3,661,782, 5-9-72, Cl. 252-79.000.
- Smith, Malcom K. Safety barrier post. 3,632,089, 1-4-72, Cl. 256-47.
- Smith, Mansel W. Air diffusion apparatus for the treatment of polluted water. 3,679,187, 7-25-72, Cl. 261-123.000.
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O'Malley, John J.; and Smith, Marion D., 3,678,783.

Smith, Marion D., to General Motors Corporation. Dual path power transmission. 3,705,521, 12-12-72, Cl. 74-759.000.
 Smith, Marjorie Ann M. Vehicle trailer. 3,661,286, 5-9-72, Cl. 214-506.
 Smith, Marjorie O. Hanger construction. 3,664,512, 5-23-72, Cl. 211-113.000.
 Smith, Mark J.: See—
 Trask, Robert B.; and Smith, Mark J., 3,658,476.
 Smith, Martin B.: See—
 Hudson, Russell L.; Williams, Kenneth C.; and Smith, Martin B., 3,647,777.
 Smith, Marvin F., Jr.: See—
 Engel, Lawrence J.; and Smith, Marvin F., Jr., 3,697,429.
 Smith, Marvin G.: See—
 Wright, Gerald T.; and Smith, Marvin G., 3,680,276.
 Smith, Marvin Glenn, to Helmerich & Payne, Inc. Sealing gasket. 3,699,735, 10-24-72, Cl. 52-400.000.
 Smith, Matthew, to Kelley Company, Inc. Dockboard. 3,665,538, 5-30-72, Cl. 14-71.
 Smith, Maurice Irvin: See—
 McIntosh, Alexander Charles; and Smith, Maurice Irvin, 3,636,270.
 McIntosh, Alexander Charles; and Smith, Maurice Irvin, 3,704,348.
 Smith, Max D.; and Adkins, Frank M., to Indian Industries, Inc. Net holder for table tennis table. 3,703,287, 11-21-72, Cl. 273-30.000.
 Smith, Michael: See—
 Vacirca, Michael; Smith, Michael; and Tejera, Louis, 3,684,455.
 Smith, Michael John; and Lane, William Charles, to Reed Paper Group Limited. Method of and apparatus for packing articles. 3,654,745, 4-11-72, Cl. 53-26.
 Smith, Millard F. High-strength fire-resistant spill control booms. 3,638,430, 2-1-72, Cl. 61-1.
 Smith, Millard F. Oil collection boom. 3,679,058, 7-25-72, Cl. 210-242.000.
 Smith, Milton Louis: See—
 Jones, Joseph Kennedy; and Smith, Milton Louis, 3,703,966.
 Smith, Morton C.: See—
 Armstrong, Dale F.; McInteer, Bertus B.; Mills, Robert I.; Poiter, Robert M.; Robinson, Eugene S.; Rowley, John C.; and Smith, Morton C., 3,693,731.
 Wagner, Paul; Dickinson, James M.; and Smith, Morton C., 3,644,221.
 Smith, Nathan R.: See—
 Schaaf, Gunther; and Smith, Nathan R., 3,699,503.
 Smith, Nelson S., Jr.; and Fasching, George E., to United States of America. Interior. Electrostatic dust monitor. 3,679,973, 7-25-72, Cl. 324-71.000.
 Smith, Nolan A.: See—
 La Hue, Richard W.; and Smith, Nolan A., 3,679,762.
 Smith, Norman E., to Westinghouse Electric Corporation. Diving suit. 3,657,515, 4-18-72, Cl. 219-211.
 Smith, Norman S.: See—
 Dawson, Peter H. V.; and Smith, Norman S., 3,689,952.
 Smith, Noyes D., Jr., to Shell Oil Company. Discontinuous coherent wave acoustic holography. 3,673,557, 6-27-72, Cl. 340-15.05h.
 Smith, Noyes D., Jr., to Shell Oil Company. Filtered coherent wave holography. 3,680,041, 7-25-72, Cl. 340-15.500.
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 Smith, Oral P.: See—
 Mac Phail, Larry S.; Ray, Harold; Smith, Oral P.; and Hall, Lee C., 3,682,054.
 Smith, Orbert S.: See—
 Prodder, Brian S.; and Smith, Orbert S., 3,653,149.
 Smith, Orville S., Jr., to Constan, Inc. Car beauty care center. 3,660,858, 5-9-72, Cl. 15-1.
 Smith, Otto Joseph Mitchell. Method and system for measuring acceleration and velocity. 3,662,251, 5-9-72, Cl. 322-23.000.
 Smith, Otto Joseph Mitchell. Tachometer and method for obtaining a signal indicative of alternator shaft speed. 3,662,252, 5-9-72, Cl. 322-89.000.
 Smith, Paul E.: See—
 Bunting, Henry E.; and Smith, Paul E., 3,641,254.
 Smith, Paul T.; and Fletcher, Augustus, to Sel-Rex Corporation. Electrolytic gold plating solutions and methods for using same. 3,644,184, 2-22-72, Cl. 204-46.
 Smith, Paul T., to Sel-Rex Corporation. Gold plating bath and process. 3,666,640, 5-30-72, Cl. 204-44.
 Smith, Percy L.: See—
 Comstock, Lowell R.; and Smith, Percy L., 3,668,178.
 Smith, Percy L.; and Comstock, Lowell R., to Union Carbide Corporation. Flame-retardant polyesters and thermosetting compositions based thereon. 3,697,625, 10-10-72, Cl. 260-869.
 Smith, Peter B., to Dynamics Corporation of America. Standby power system. 3,675,112, 7-4-72, Cl. 322-4.000.
 Smith, Peter D.: See—
 Kletecka, George; and Smith, Peter D., 3,678,047.

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 Smith, Peter Faraday: See—
 Wilson, Martin Norman; Smith, Peter Faraday; Walters, Colin Russell; Lewin, John David; Broomfield, Robert Walter; and Graham, Robert Leslie, 3,662,093.
 Smith, Peter John: See—
 Lawson, Leslie Edward; Smith, Frank Edward; and Smith, Peter John, 3,634,086.
 Smith, Peter Rothwell: See—
 Laverick, Robert Clement; and Smith, Peter Rothwell, 3,636,563.
 Smith, Peter William, to Bell Telephone Laboratories, Incorporated. Frequency-stabilized single mode ring lasers. 3,644,841, 2-22-72, Cl. 331-94.5.
 Smith, Philip E., Jr.: See—
 Wallace, Baird; and Smith, Philip E., Jr., 3,680,863.
 Smith, Phillip Hagar, to Bell Telephone Laboratories, Incorporated. Clutter fence for suppression of electromagnetic energy. 3,683,394, 8-8-72, Cl. 343-841.000.
 Smith, Phillip W. Abrasive blasting apparatus. 3,691,691, 9-19-72, Cl. 51-15.000.
 Smith R. P. M. Corporation: See—
 Smith, Roy R., Jr., 3,677,177.
 Smith, Ralph B.: See—
 Gold, Harold E.; and Smith, Ralph B., 3,698,472.
 Smith, Ralph E., to ICM, Inc. Duplicator control for card punch. 3,666,172, 5-30-72, Cl. 234-19.000.
 Smith, Ralph J., to Promoco Enterprises Limited. Rotary cam controlled engine. 3,648,528, 3-14-72, Cl. 74-55.
 Smith, Randal E.; and Egbon, Clarence W., to Ideal Basic Industries, Inc. Reagents for beneficiating ores. 3,640,385, 2-8-72, Cl. 209-166.
 Smith, Randlow, to Texaco Inc. Quenching apparatus for a high pressure synthesis gas process. 3,660,046, 5-2-72, Cl. 23-284.
 Smith, Ray F. Garbage incinerator and method of operation. 3,647,405, 3-7-72, Cl. 65-19.
 Smith, Ray S.: See—
 Maggilo, Allison; Hinton, Everett H., Jr.; and Smith, Ray S., 3,632,422.
 Smith, Raymond Anthony; and Sansom, John Norman, to Electric Reduction Company of Canada Limited. Dearsenication of phosphate rock. 3,652,210, 3-28-72, Cl. 23-165.
 Smith, Raymond B.: See—
 Jones, Roger B.; and Smith, Raymond B., 3,643,245.
 Smith, Raymond L., Jr.: See—
 Weisker, Alexander; and Smith, Raymond L., Jr., 3,695,463.
 Weisker, Alexander; and Smith, Raymond L., Jr., 3,696,954.
 Smith, Raymond Leonard, Jr., to C & M Manufacturing Company, Inc. Horizontally turnable material handling forks. 3,701,446, 10-31-72, Cl. 214-730.000.
 Smith, Raymond P. Roller guide for boat trailer. 3,680,676, 8-1-72, Cl. 193-42.000.
 Smith, Raymond P. Adjustable pedal. 3,691,868, 9-19-72, Cl. 74-512.000.
 Smith, Raymond Peter, Jr. Short circuit locator apparatus including a plurality of intermittently operated circuit breakers. 3,699,433, 10-17-72, Cl. 324-52.000.
 Smith, Richard A., to United States of America, Navy. Radiation compensation circuit. 3,652,877, 3-28-72, Cl. 307-308.
 Smith, Richard C.: See—
 Carpentier, Richard A.; Shriver, Spencer A.; and Smith, Richard C., 3,649,906.
 Smith, Richard D. Chance controlled marble game. 3,638,948, 2-1-72, Cl. 273-135.
 Smith, Richard D.; and Furlong, Dale A., to Combustion Power Company, Inc. Fluidized bed vapor compression drying apparatus and method. 3,654,705, 4-11-72, Cl. 34-10.
 Smith, Richard D.; and Du Bois, Ronald S. Safety devices for tension springs. 3,656,737, 4-18-72, Cl. 267-73.
 Smith, Richard D.; and Furlong, Dale A., to Combustion Power Company, Inc. Air pollution-free internal combustion engine and method for operating same. 3,672,341, 6-27-72, Cl. 123-119.00e.
 Smith, Richard D. Projection game apparatus including paper clip projector and closely spaced target posts. 3,675,924, 7-11-72, Cl. 273-101.000.
 Smith, Richard D. Board game apparatus. 3,690,667, 9-12-72, Cl. 273-134.00b.
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 Smith, Richard Daniel. Treatment of cellulosic materials. 3,676,182, 7-11-72, Cl. 117-60.000.
 Smith, Richard Deming, to RCA Corporation. Computer with program tracing facility. 3,673,573, 6-27-72, Cl. 340-172.5.
 Smith, Richard E., to Xerox Corporation. Developing systems. 3,667,428, 6-6-72, Cl. 118-637.000.

Smith, Richard E., to Xerox Corporation. Sheet stripping apparatus. 3,695,756, 10-3-72, Cl. 355-3.000.
 Smith, Richard F. Halogenated 2(2'-hydroxyphenyl) benzothiazoles. 3,647,812, 3-7-72, Cl. 260-304.
 Smith, Richard J. Rotary valve. 3,650,295, 3-21-72, Cl. 137-614.17.
 Smith, Richard K. Bathub wrapper structure. 3,680,688, 8-1-72, Cl. 206-46.00h.
 Smith, Richard L.: See—
 Rose John L., Jr.; and Smith, Richard L., 3,634,016.
 Smith, Richard L., to Lockheed Aircraft Corporation. Cellular material inhibited from fouling with micro-organism growth. 3,644,238, 2-22-72, Cl. 260-2.5.
 Smith, Richard L.; and Ura-neck, Carl A., to Phillips Petroleum Company. Production of polymers having low cold flow properties. 3,660,362, 5-2-72, Cl. 260-79.
 Smith, Richard L., to Kaiser Aluminum & Chemical Corporation. Control of integral color anodizing process. 3,669,855, 6-13-72, Cl. 204-58.
 Smith, Richard L.; and Ura-neck, Carl A., to Phillips Petroleum Company. Carbon black containing organometal compounds of the allylic or benzylic type. 3,692,553, 9-19-72, Cl. 106-307.000.
 Smith, Richard L.; and Sauerbrey, Dennis F., to Scans Associates, Inc. Method and apparatus for testing engines. 3,697,865, 10-10-72, Cl. 324-16.00r.
 Smith, Richard M., to United States of America, Navy. Bragg angle optical matched filter system with coded glass transmission plate. 3,700,910, 10-24-72, Cl. 250-225.000.
 Smith, Robert A.: See—
 Behr, Michael I.; and Smith, Robert A., 3,683,273.
 Smith, Robert A.; and Wang, Ting-I, to Atlantic Richfield Company. Vapor phase process for producing vinyl allyl ether. 3,705,924, 12-12-72, Cl. 260-614.00r.
 Smith, Robert A., Jr., to Superior Tobacco Machine & Sheet Metal, Inc. Tobacco threshing apparatus and method. 3,706,314, 12-19-72, Cl. 131-145.000.
 Smith, Robert C., Jr.: See—
 Stein, Reinhardt P.; Smith, Robert C., Jr.; and Smith, Herchel, 3,647,784.
 Smith, Robert D.: See—
 Cato, Russel L., Jr.; Leonard, Percy D., Jr.; and Smith, Robert D., 3,659,990.
 Smith, Robert D.; and Herron, Ronald L., to Du Pont de Nemours, E. I., and Company. Method of making sealing ring with resilient core. 3,660,192, 5-2-72, Cl. 156-155.
 Smith, Robert D., to Avery Products Corporation. Ticket printing and issuing machine with roller inker means. 3,662,681, 5-16-72, Cl. 101-68.
 Smith, Robert E.: See—
 Pigage, Robert F.; Ryan, Arthur B.; and Smith, Robert E., 3,641,431.
 Smith, Robert E., to Flexicore Co., Inc., The. Core for casting concrete slabs. 3,648,963, 3-14-72, Cl. 249-65.
 Smith, Robert Earl: See—
 Stevens, Harry G.; and Smith, Robert Earl, 3,695,468.
 Smith, Robert L.: See—
 Mikovsky, Richard J.; Silvestri, Anthony J.; and Smith, Robert L., 3,663,426.
 Smith, Robert M., to Hy-Dynamic Co., The, mesne. Rough terrain vehicle. 3,674,162, 7-4-72, Cl. 214-138.00r.
 Smith, Robert S.; Bosley, Denis V.; and Soukakis, George, to Mattel, Inc. Toy vehicle with sound-producing wheels. 3,693,289, 9-26-72, Cl. 46-175.000.
 Smith, Robert T.: See—
 Gottlieb, Alvin J.; Neyens, Wayne E.; Smith, Robert T.; and Garbark, Roman F., 3,675,927.
 Smith, Roderick L. Grinding system. 3,653,855, 4-4-72, Cl. 51-165.
 Smith, Roger A. Stabilizing attachment for hand guns. 3,648,396, 3-14-72, Cl. 42-94.
 Smith, Roger K., to International Fineblanking Corporation. Quick-change tooling for fineblanking presses. 3,673,908, 7-4-72, Cl. 83-685.000.
 Smith, Roger M.: See—
 Davies, James M.; Hackmann, Larry G.; Peterson, Robert A.; Smith, Roger M.; and Wirt, Leon A., 3,659,654.
 Knell, Harvey A.; Olthoff, James A.; Scoggin, Barry A.; and Smith, Roger M., 3,706,143.
 Olthoff, James A.; Smith, Roger M.; and Trittipoe, Jack H., 3,680,892.
 Smith, Roger S.: See—
 Cole, Addison D.; and Smith, Roger S., 3,678,937.
 Smith, Roland T., to Novar Corporation. Electrical character select mechanism for typewriter. 3,647,042, 3-7-72, Cl. 197-19.
 Smith, Ronald L., to General Electric Company. Coating compositions for alkali surfaces. 3,663,282, 5-16-72, Cl. 106-287.
 Smith, Ronald M.: See—
 Collier, William W.; and Smith, Ronald M., 3,676,860.
 Smith, Ronald T.: See—
 Ross, John M.; and Smith, Ronald T., 3,690,092.
 Smith, Ronald W.: See—
 Lees, Ronald D.; and Smith, Ronald W., 3,691,086.
 Smith, Roy A.: See—
 Kizer, Donald E.; Smith, Roy A.; and Speidel, Edward O., 3,662,042.
 Smith, Roy B.: See—
 Edelstein, Harold P.; and Smith, Roy B., 3,659,675.
 Smith, Roy E.; and Dunn, John W., to Owens-Corning Fiberglass Corporation. Apparatus for processing a plurality of strand-like materials. 3,653,860, 4-4-72, Cl. 65-11.
 Smith, Roy E., to Textron, Inc., mesne. Means for securing door frame components. 3,672,554, 6-27-72, Cl. 227-93.000.
 Smith, Roy E., to Owens-Corning Fiberglass Corporation. Apparatus for packaging linear material. 3,697,008, 10-10-72, Cl. 242-43.000.
 Smith, Roy R.: See—
 Deaton, Homer W.; Gould, Robert R., Jr.; and Smith, Roy R., 3,636,309.
 Smith, Roy R., Jr., to Smith, Roy R., mesne. Spray dampening system with individual metering pumps for offset press. 3,651,756, 3-28-72, Cl. 101-147.
 Smith, Roy R., Jr., to Smith R. P. M. Corporation. Drive for controlling web length in rotary printing presses. 3,677,177, 7-18-72, Cl. 101-228.000.
 Smith, Roy R., mesne: See—
 Smith, Roy R., Jr., 3,651,756.
 Smith, Russell G.: See—
 Walchle, David L.; Smith, Russell G.; and Geraci, James L., 3,698,791.
 Smith, Russell G.; and Vanterpool, Alan, to Chemcell, Limited. Separation of ethers. 3,634,522, 1-11-72, Cl. 260-615.
 Smith, Russell G.; Sonderman, William G.; and Templin, Paul D., to Xomox Corporation. Butterfly valve. 3,661,171, 5-9-72, Cl. 137-375.
 Smith, Russell G., to Xomox Corporation. Duplex strainer construction. 3,679,060, 7-25-72, Cl. 210-333.000.
 Smith, Russell G. Valve with flow regulating means. 3,700,003, 10-24-72, Cl. 137-614.170.
 Smith, Russell G., to Xomox Corporation. Means to prevent external plug valve leakage. 3,703,910, 11-28-72, Cl. 137-375.000.
 Smith, Russell J.; and Froman, William H., to Midland-Ross Corporation. Squeeze head assembly for molding machines. 3,643,729, 2-22-72, Cl. 164-170.
 Smith, Rymer H.: See—
 Wikel, David C.; and Smith, Rymer H., 3,703,856.
 Smith, Sally J. Portable hand-operated pressing device for clothing or the like. 3,703,042, 11-21-72, Cl. 38-69.000.
 Smith, Sam E. Template-mash. 3,678,887, 7-25-72, Cl. 118-504.000.
 Smith, Samuel; and Hubin, Allen J., to Minnesota Mining and Manufacturing Company. Process for preparing block copolymers from a tetrahydrofuran polymer. 3,644,567, 2-22-72, Cl. 260-829.
 Smith, Samuel E.: See—
 Russell, George D.; and Smith, Samuel E., 3,680,862.
 Smith, Sarah B. Invalid or geriatric toilet seat. 3,671,981, 6-27-72, Cl. 4-242.000.
 Smith, Shaler G., Jr., to Du Pont de Nemours, E. I., and Company. Polyamic acid from tricyclo-(4,2,2,0^{1,5})-dec-7-ene-3,4,9,10-tetracarboxylic dianhydride. 3,649,596, 3-14-72, Cl. 260-47.
 Smith, Sherman: See—
 Goldman, Gerald M.; and Smith, Sherman, 3,693,520.
 Smith, Sidney H.: See—
 Barrager, Stephen M.; Bate, Geoffrey; and Smith, Sidney H., 3,706,926.
 Smith, Sidney S.: See—
 Sequerra, Richard I.; Smith, Sidney S.; Assenza, Fred J.; and Greenbaum, William H., 3,691,365.
 Smith, Sidney Z.: See—
 Swett, James B.; and Smith, Sidney Z., 3,698,783.
 Smith, Stanley D.; and Hamilton, Stephen B., Jr., to General Electric Company. Curable compositions. 3,689,454, 9-5-72, Cl. 260-46.50g.
 Smith, Stanley George: See—
 Craddock, Wayne Edward; and Smith, Stanley George, 3,645,200.
 Smith, Stephen B.: See—
 Bremner, David F.; and Smith, Stephen B., 3,690,250.
 Smith, Stephen Hagar, to McCulloch Corporation. Rapid charging of batteries. 3,700,997, 10-24-72, Cl. 320-20.000.
 Smith, Stephen J.: See—
 Spiller, Lester L.; and Smith, Stephen J., 3,672,927.
 Smith, Sydney; Hunt, Jerry Donald; and Esler, Richard Brotherton, to Firestone Tire & Rubber Company, The. Aquatic torsion-fatigue test apparatus. 3,706,222, 12-19-72, Cl. 73-91.000.
 Smith, T. J., & Nephew Limited: See—
 Hodgson, Martin E., 3,645,835.
 Howes, John Gordon Bernard; and Selway, Rupert Aleck, 3,649,637.
 Smith, Terrill D., to Monsanto Company. Functional fluid compositions containing perfluoro surfactants. 3,679,587, 7-25-72, Cl. 252-75.000.
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- Smith, Terry Edward, to American Cyanamid Company. Compatible mixtures of methyl methacrylate polymer and high molecular weight ethylene oxide polymer. 3,655,830, 4-11-72, Cl. 260-901.
- Smith, Terry K.; Chiu, Ying-Cheh; and Lawson, Jimmie B., to Shell Oil Company. Gas-strengthened steam foam well cleaning. 3,707,193, 12-26-72, Cl. 166-303.000.
- Smith, Terry Reginald, to Smith Industries Limited. Liquid level indicators. 3,699,914, 10-24-72, Cl. 116-118.000.
- Smith, Theodore, to Grain Processing Corporation. Water-absorbing alkali metal carboxylate salts of starch-polyacrylonitrile graft copolymers. 3,661,815, 5-9-72, Cl. 260-17.4.
- Smith, Theodore M.: See—
Smith, Theodore M., 3,697,186.
- Smith, Theodore M., to Smith, Lucille G. Smith, Theodore M.; trustees of the Smith, Theodore M., Trust. Hard start tool holder. 3,697,186, 10-10-72, Cl. 408-142.000.
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Smith, Theodore M., 3,697,186.
- Smith, Thomas Basil, III: See—
United States of America, National Aeronautics and Space Administration, 3,699,511.
- Smith, Thomas C., to Micro-Poise Engineering & Sales Company. Universally tiltable static balance testing apparatus with adjustable work gripping mechanism. 3,695,114, 10-3-72, Cl. 73-485.000.
- Smith, Thomas E.: See—
White, Arnold G.; Smith, Thomas E.; and Work, Lyall C., 3,656,897.
- Smith, Thomas Edward: See—
White, Arnold George; Smith, Thomas Edward; Work, Lyall Campbell; and Miller, Willard Wallace, 3,664,929.
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- Smith, Trevor James: See—
Booth, Gerald; Smith, Trevor James; and Vellins, Cyril Eric, 3,657,284.
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- Smith, Troy F., Jr.: See—
Bartlett, David S., Jr.; Purcell, Rupert M.; Osborne, David W.; and Smith, Troy F., Jr., 3,659,709.
- Smith, Van Z., to All Products Company. Sectional tower structure. 3,670,471, 6-20-72, Cl. 52-638.000.
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- Smith, Verity C., to Vaponics, Inc. Distillation apparatus having concentric riser expansion and condensing chambers. 3,660,246, 5-2-72, Cl. 202-187.
- Smith, Vern; Fallon, Merton R.; and Johnston, Mack S., to Republic Corporation. Keg tapping device with automatic gas shutoff valve. 3,698,417, 10-17-72, Cl. 137-212.000.
- Smith, Vernon C.: See—
Barwick, Frederick E., III; Smith, Vernon C.; McCullough, Robert W.; and Hobgood, James B., 3,650,663.
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Seiler, Edwin Nail; and Smith, Weak's Gardner, 3,650,299.
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Pflowes-Williams, John Eirwyn; Hawkins, Roy; Dawson, Hylton; and Smith, William, 3,706,353.
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Probst, Richard O.; Smith, William W.; and Lee, Henry B., 3,648,565.
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Land, Cecil E.; and Smith, Willis D., 3,702,724.
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Hogan, Elmer R.; and Simpson, John I., 3,670,363.
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Smith, Donald J., 3,692,926.
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Kruger, Michael H., 3,664,615.
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Steigleder, Charles J.; Smithey, Linual D.; and Ydon, Lloyd E., 3,696,671.
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Carpenter, Mark E.; and Smithgall, Harry E., 3,704,387.
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Partridge, Harvie C., 3,643,824.
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- Smith, Harold Eugene, 3,647,095.
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- Smith, Harold Eugene, 3,687,313.
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Barnard, Dominic Paul Edward; and Bishop, Brian L. H., 3,648,044.
- Barrett, Edward George, 3,661,221.
- Bishop, Brian L. H., 3,648,790.
- Blackham, Norman; and Read, Mervyn H. H., 3,668,520.
- Clements, John Anthony; Goss, Alan Patrick; and Shepherd, Brian, 3,706,890.
- Constable, Geoffrey Ernest Patrick, 3,641,497.
- Constable, Geoffrey Ernest Patrick, 3,657,521.
- Constable, Geoffrey Ernest Patrick, 3,673,571.
- Halliday, William; and Haslett, Roy William George, 3,652,978.
- Searle, Simon M. St. L.; and Walker, Christopher H. C., 3,679,297.
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Blackham, Norman; and Read, Mervyn H. H., 3,668,520.
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Majek, Vladimir; Krajmer, Anton; and Smitmajer, Zdenek, 3,648,140.
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Alvarez, Luis W.; Derenzo, Stephen E.; Muller, Richard A.; Smits, Robert G.; and Zaklad, Haim, 3,659,105.
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Ito, Yoshio; Smiyama, Shinichi; Toyoda, Akinobu; and Minami, Shoichiro, 3,686,294.
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Weaver, Richard L.; and Smoker, Benjamin K., 3,679,168.
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Field, Nathan D.; Kiss, Kornel D.; Lorenz, Donald H.; and Smolin, Edwin M., 3,658,943.
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Keister, Frank Z.; and Smolker, Gary S., 3,666,967.
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- Smollinger, Carl W. Vibration damped fitting. 3,705,445, 12-12-72, Cl. 24-123.000.
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Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Podola, Nikolai Vasilievich; Bondarenko, Oleg Petrovich; Leibenzon, Semen Abramovich; Kaganovsky, Gary Petrovich; Smolyakov, Vadim Filimonovich; Eltsov, Konstantin Sergeevich; Gabuev, Georgy Kharitonovich; and Gladky, Dmitry Fedorovich, 3,693,700.
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Weaver, John L.; and Smoot, Edward H., 3,656,260.
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- Smrekar, Clarence E.: See—

- Williams, Harrison L.; and Smrekar, Clarence E., 3,633,252.
 Smrekar, Clarence E., to Preformed Line Products Company. Vibration damper. 3,662,084, 5-9-72, Cl. 174-42.000.
 Smrt, Thomas J. Spraying apparatus. 3,700,144, 10-24-72, Cl. 222-176.000.
 Smuck, Harry A. Combination incinerator and smoke eliminator. 3,631,824, 1-4-72, Cl. 110-14.
 Smuck, Harry A. Smoke eliminator. 3,701,237, 10-31-72, Cl. 55-230.000.
 Smucker, Clayton A.; Rigby, William H., Jr.; and Zellar, Wade V. Terpolymer binder composition. 3,684,467, 8-15-72, Cl. 65-3.000.
 Smucker, Clayton A., to Owens-Corning Fiberglass Corporation. Production of coated fibers and coating composition. 3,704,199, 11-28-72, Cl. 161-157.000.
 Smuda, Gerhard: *See—*
 Aust, Manfred; and Smuda, Gerhard, 3,679,520.
 Smudski, Paul A., to Carborundum Company, The. Process for carbonizing fibrous cellulosic material. 3,689,220, 9-5-72, Cl. 423-447.000.
 Smulders, Hendricus Franciscus Gerardus: *See—*
 Holster, Peter Leendert; Smulders, Hendricus Franciscus Gerardus; and Potters, Cornelis Johannes Theresia, 3,631,556.
 Potters, Cornelis Johannes Theresia; Reinhoudt, Jacobus Pieter; and Smulders, Hendricus Franciscus Gerardus, 3,643,273.
 Smulders, Robert, to Single-Buoy Mooring, Inc. Mooring buoy. 3,660,856, 5-9-72, Cl. 9-8.
 Smura, Edwin J., to Xerox Corporation. Recording apparatus. 3,681,777, 8-1-72, Cl. 346-74.00r.
 Smurov, Georgy Sergeevich: *See—*
 Makachev, Nikolai Ivanovich; Parshin, Alexei Nikolaevich; Smurov, Georgy Sergeevich; and Stepanets, Alexei Trofimovich, 3,640,316.
 Smutny, Edgar J.: *See—*
 Henle, Walter K.; and Smutny, Edgar J., 3,666,416.
 SMW Atlanta, Inc., *mesne: See—*
 Wells, Robert A.; and Strobo, Carl J., 3,674,172.
 SMW, Spanneinrichtungen, Schneider, Manz & Weisshaupt OHG: *See—*
 Hiestand, Karl, 3,635,481.
 Smyers, Frank C.; and Garrison, John H., to United States Smelting, Refining & Mining Company. Process for recovering lead, lead alloys, and lead compositions from batteries. 3,679,395, 7-25-72, Cl. 75-77.000.
 Smyly, Harold M., to United States of America, National Aeronautics and Space Administration. Differential pressure control. 3,698,412, 10-17-72, Cl. 137-81.000.
 Smyser, Craig: *See—*
 Hobbs, Jim F.; and Smyser, Craig, 3,648,630.
 Smyth, Donald N., to S.A. Brush Company Limited. Liquid feed control for cleaning apparatus. 3,667,853, 6-6-72, Cl. 401-291.000.
 Smyth, George F.: *See—*
 Brawner, William H.; Gunsalus, Claude A.; and Rockwell, Lowell K., 3,698,337.
 Brown, Omar L.; and Smyth, George F., 3,637,106.
 Smyth, James A.; and Whitaker, William T., to Zippo Manufacturing Company. Key connector. 3,695,074, 10-3-72, Cl. 70-456.00r.
 Smyth Manufacturing Company, *mesne: See—*
 McCahon, John O.; and Byrne, William J., 3,692,299.
 Smyth, Nelda Marjorie: *See—*
 Forgione, Peter Salvatore; and Smyth, Nelda Marjorie, 3,695,999.
 Smyth, Rex W.: *See—*
 Lese, Henri K.; and Smyth, Rex W., 3,657,280.
 Smyth, Richard K.: *See—*
 Bayle, Guy P.; Smyth, Richard K.; and Gustafson, Robert D., 3,706,988.
 Smyth, Robert William: *See—*
 Lewis, Gerald Perley; Smyth, Robert William; Booker, Philip P.; and Zelznak, Richard, 3,684,586.
 Smyth, William P. Launching device for boat trailers. 3,682,335, 8-8-72, Cl. 214-82.000.
 Smythe, Carl V.: *See—*
 Sherba, Samuel E.; Steigerwalt, Ronald B.; Faith, William T., Jr.; and Smythe, Carl V., 3,640,725.
 Smythe, Eric Patrick Greenwood, to Republic Mower Company (Proprietary) Limited. Rotary mower. 3,676,893, 7-18-72, Cl. 15-328.000.
 Smythe, John W.: *See—*
 Reichman, Steven H.; and Smythe, John W., 3,639,179.
 Smythe, John W.; and Karp, Philip I., to Federal-Mogul Corporation. Method of making superalloys. 3,671,230, 6-20-72, Cl. 75-213.000.
 Smyvin, Rudolf Mikhailovich: *See—*
 Maslennikov, Konstantin Nikolaevich; Argunov, Jury Vasilievich; Savonkin, Nikolai Porfirievich; Smyvin, Rudolf Mikhailovich; and Chzhen, Igor Alexeevich, 3,688,141.
 Snam Progetti S.p.A.: *See—*
 Arrighetti, Sergio; Vajna, Eugenio; and Cesca, Sebastiano, 3,676,510.
 Arrighetti, Sergio; Vajna, Eugenio; and Cesca, Sebastiano, 3,676,511.
 Arrighetti, Sergio; Vajna, Eugenio; and Cesca, Sebastiano, 3,676,512.
 Arrigoni, Virgilio; Sezzi, Franco; and Gaetani, Bruno, 3,678,732.
 Balducci, Agostino; Baradel, Agostino; and Massino, Marena, 3,689,473.
 Carli, Roberto; and Gordini, Silvano, 3,705,787.
 Cesca, Sebastiano; Roggero, Arnaldo; Priola, Aldo; and Cinelli, Ermanno, 3,646,105.
 Cesca, Sebastiano; Roggero, Arnaldo; and Marconi, Walter, 3,647,767.
 Cesca, Sebastiano; Arrighetti, Sergio; and Marconi, Walter, 3,652,514.
 Cesca, Sebastiano; Roggero, Arnaldo; and Cinelli, Ermanno, 3,657,204.
 Cesca, Sebastiano; Roggero, Arnaldo; and Marconi, Walter, 3,694,420.
 Ciuti, Brunello; and Del Ross, Sergio, 3,676,357.
 Corradini, Giorgio; Ghetti, Giuseppe; Cesca, Sebastiano; and Roggero, Arnaldo, 3,668,156.
 Corradini, Giorgio; Ghetti, Giuseppe; Cesca, Sebastiano; and Arrighetti, Sergio, 3,691,141.
 Facchini, Alessandro, 3,690,729.
 Fermi, Enzo; and Francesco, San Donaio Milanese, 3,669,591.
 Girotti, Pierleona; Floris, Telemaco; and Pecci, Giancarlo, 3,642,612.
 Imperato, Luigi; Rossi, Enzo; and Del Ross, Sergio, 3,654,329.
 Marconi, Walter; Cesca, Sebastiano; and Roggero, Arnaldo, 3,654,246.
 Mattucci, Anna Maria; and Perrotti, Emilio, 3,668,227.
 Sersale, Riccardo; Franco, Enrico; Jello, Rosario; and Colella, Carmine, 3,694,152.
 Snap-On-Tools Corporation: *See—*
 Knudsen, Raymond G.; Price, James W.; and Olson, Gene E., 3,675,316.
 Larson, Kenneth R., 3,633,418.
 Larson, Kenneth R., 3,675,464.
 Snape, Edwin; and Schaller, Frank W., to International Nickel Company, Inc., The. Heat treatment for alloys particularly steels to be used in sour well service. 3,655,465, 4-11-72, Cl. 148-134.
 Snape, Raymond: *See—*
 Heal, Jeremy C.; Snape, Raymond; and Gower, Philip B., 3,660,857.
 Snaper, Alvin A.; Gregory, George D.; and Munroe, Miles R., to Advanced Patent Technology, Inc. Planar random access ferroelectric computer memory. 3,675,220, 7-4-72, Cl. 34-173.200.
 Snapp, Thomas C.; and Blood, Alden E., to Eastman Kodak Company. Method of preparing 2-p-dioxanone polymers. 3,645,941, 2-29-72, Cl. 260-18.
 Snapp, Thomas C., Jr.: *See—*
 Albers, Kenneth H.; Blood, Alden E.; and Snapp, Thomas C., Jr., 3,652,501.
 Albers, Kenneth H.; and Snapp, Thomas C., Jr., 3,699,165.
 Snapp, Thomas Carter, Jr.; Blood, Alden E.; and Hagemeyer, Hugh John, Jr., to Eastman Kodak Company. Synthesis of unsaturated compounds. 3,701,798, 10-31-72, Cl. 260-465.900.
 Snappy, Inc.: *See—*
 Anderson, Leroy E.; and Munn, Gerald J., 3,636,903.
 Snare, Victor; and Clayton, Alfred L. Means for stiffening shirt collars. 3,686,692, 8-29-72, Cl. 2-132.000.
 Snasel, Josef: *See—*
 Bayer, Oldrich; Snasel, Josef; Premyslovsky, Jiri; and Smalcl, Frantisek, 3,704,654.
 Snauwaert en Depla, Firma: *See—*
 Snauwaert, Karel, 3,638,943.
 Snauwaert, Karel, to Snauwaert en Depla, Firma. Handle for a racket. 3,638,943, 2-1-72, Cl. 273-73.
 Snavelly, Earl S., Jr.: *See—*
 Blount, Elmo M.; Snavelly, Earl S., Jr.; Messenger, Joseph U.; and Prueger, Nicolas J., 3,677,340.
 Snead, William K.; and Knoop, John F., to PPG Industries, Inc. Process for the production of hydrazoic acid. 3,705,008, 12-5-72, Cl. 423-406.000.
 Sneddon, John Mason: *See—*
 Turner, Paul; Marmion, Vincent James; Sneddon, John Mason; and Craig, David D. H., 3,658,963.
 Snedeker, Marion L., to VLM Corporation. Battery charging system with reverse battery protection. 3,659,182, 4-25-72, Cl. 320-25.
 Snedeker, Marion L., to VLM Corporation, The. Battery charging system. 3,673,486, 6-27-72, Cl. 320-25.000.
 Snedeker, Robert Howard; Garty, Kenneth Thomas; and Skiermont, Frank Joseph, to Union Carbide Corporation. Glass-polycarbonate resin laminates. 3,666,614, 5-30-72, Cl. 161-183.
 Snee, Charles Thomas, to Lubrizol Corporation, The. Phosphating solution with scale suppressing characteristics. 3,676,224, 7-11-72, Cl. 148-6.152.
 Snee, William J., Jr.: *See—*
 Lemper, Herbert; and Snee, William J., Jr., 3,680,400.

- Snegoski, James J.: *See—*
 Thorud, Richard A.; Snegoski, James J.; and Hasenbank, Kenneth N., 3,696,593.
 Snelgrove, James A.: *See—*
 Fitzhugh, Andrew F.; and Snelgrove, James A., 3,634,301.
 Snell, Brian Kenneth: *See—*
 Freeman, Peter Frank Hilary; Shephard, Margaret Claire; and Snell, Brian Kenneth, 3,670,077.
 Sharpe, Stuart Peter; and Snell, Brian Kenneth, 3,651,224.
 Snell, Brian Kenneth; and Bishop, Nigel Douglas, to Imperial Chemical Industries Limited. Certain 2-formamido-4-hydroxypyrimidines. 3,676,443, 7-11-72, Cl. 260-256.40c.
 Snell, Robert B., to Minnesota Mining and Manufacturing Company. Self-fusing tape having pressure-sensitive adhesive properties. 3,684,644, 8-15-72, Cl. 161-165.000.
 Sneller, Lee J., to Valley Decorating Company, mesne. Bracket for mounting decorations on a building front. 3,664,626, 5-23-72, Cl. 248-224.000.
 Snelling, Christopher: *See—*
 Gundlach, Robert W.; Lot, Leon C.; and Snelling, Christopher, 3,642,598.
 Keller, Carol K.; Royka, Stephen F.; and Snelling, Christopher, 3,647,659.
 Snelling, Christopher, to Xerox Corporation. Device for measuring charge on a material by converting into electrical signals the frictional forces caused by the charge. 3,638,110, 1-25-72, Cl. 324-32.
 Snelling, Christopher, to Xerox Corporation. Two-layered photoconductive element containing a halogen doped storage layer and a selenium alloy control layer. 3,639,120, 2-1-72, Cl. 96-1.5.
 Snelling, Christopher; and Gardone, Anthony J., to Kayex Corporation. Pull rod seal. 3,643,964, 2-22-72, Cl. 277-24.
 Snelling, Christopher, to Xerox Corporation. Photoelectrophoretic imaging by phosphorescence. 3,681,221, 8-1-72, Cl. 204-181.000.
 Snelling, James W., to Amex Corporation. Method and apparatus for pollution free burning of automobile bodies. 3,646,897, 3-7-72, Cl. 110-8.
 Snelling, Murdock M., Jr.; and Estes, Clancy E., to Taylor Machine Works. Cargo container handling assembly. 3,633,777, 1-11-72, Cl. 214-621.
 Snellman, Donald L.; Marson, Richard A.; and Davis, Ernest D., to Norfin, Inc. Electronic device for detecting the passage of nonconductive sheets. 3,646,372, 2-29-72, Cl. 307-308.
 Snellman, Donald L.; and Greene, Ronald W., to Norfin, Inc. Movable infeed conveyor for sheet collator device. 3,652,079, 3-28-72, Cl. 271-58.
 Snellman, Donald L., to Norfin, Inc. Sheet stack jogging mechanism. 3,658,324, 4-25-72, Cl. 271-89.
 Snellman, Donald L.; and Hudson, Willard G., to Norfin, Inc. Glass fiber cable. 3,662,533, 5-16-72, Cl. 57-140.
 Snethen, Thomas H., to United Business Equipment Corporation. Check separator system. 3,700,118, 10-24-72, Cl. 214-1.00r.
 Snethorst, Adrianus Cornelis Josephus Maria; and Looymans, Wilhelmus Petrus Johannes. Method of manufacturing α -strontium-hydro-phosphate. 3,694,151, 9-26-72, Cl. 423-307.00c.
 SNIA Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A.: *See—*
 Ando, Satoshi; Tanaka, Yusaku; Onuma, Sadao; and Ogata, Fumimaro, 3,642,568.
 Ando, Satoshi; Tanaka, Yusaku; Kojima, Minoru; and Fujimura, Kyoichi, 3,669,917.
 Matsui, Masao; and Tokura, Susumu, 3,660,993.
 Ogata, Fumimaro; Naruse, Tsutomu; and Itoh, Torazo, 3,642,565.
 Siclari, Francesco; Perazzoni, Pierluigi; and Silvestroni, Piergiorgio, 3,632,558.
 Siclari, Francesco; and Magnoni, Franco, 3,644,294.
 Siclari, Francesco; Horak, Edgardo; and Rosso, Mario, 3,682,864.
 Siclari, Francesco; Rossi, Pietro Paolo; Calgari, Seba; and Jacuone, Roberto, 3,700,631.
 Tamura, Yoshio; and Ando, Satoshi, 3,639,203.
 Snidar, Edward A., to O & S Bearing & Mfg. Co. Ball joint static seal for high angle applications. 3,635,508, 1-18-72, Cl. 287-87.
 Snider, Albert L.; and Jaacks, Charles V. Fish catch indicator. 3,656,251, 4-18-72, Cl. 43-17.
 Snider, George P., to Hydraslip, Inc. Hay bale vehicle. 3,688,919, 9-5-72, Cl. 214-6.00b.
 Snider, Harold F.; and Gerich, Anton J., to Therm-O-Disc, Incorporated. Thermostat with double pole switch. 3,662,311, 5-9-72, Cl. 337-367.
 Snider, Orville E.: *See—*
 Balint, Laszlo J.; Roth, David W. H., Jr.; and Snider, Orville E., 3,679,368.
 Snider, Orville E.; Loughlin, James E.; and Ortheil, Hans, to Allied Chemical Corporation. Polyester/polyamide blend fiber dyed with azo disperse dye. 3,635,653, 1-18-71, Cl. 8-21.
 Snider, Roy C., Jr., to Ducharme, Joseph. Ski assembly for automotive vehicles. 3,649,040, 3-14-72, Cl. 280-14.
 Snider, Theodore O.; and Teeple, Michael D., to National Automatic Tool Company, Inc. Hydro-mechanical clamp. 3,669,599, 6-13-72, Cl. 425-242.
 Sniderman, Albert, to Burroughs Corporation. Variable format control from pre-printed line marks. 3,658,163, 4-25-72, Cl. 197-133.
 Sniderman, Albert, to Burroughs Corporation. Slotted print type belt with angularly disposed type mounting strips. 3,667,384, 6-6-72, Cl. 101-111.000.
 Sniffin, Millard T., to United States of America, Navy. Drifting mine self protection system. 3,656,447, 4-18-72, Cl. 114-240.00r.
 Snijders, Wilfred Andre Maria: *See—*
 Zegers, Leo Eduard; Kuilman, Jan; and Snijders, Wilfred Andre Maria, 3,666,889.
 Zegers, Leo Eduard; and Snijders, Wilfred Andre Maria, 3,671,864.
 Snitily, Miloslav: *See—*
 Barochovsky, Antonin; Horacek, Ladislav; Krulik, Zdenek; Snitily, Miloslav; Stancil, Frantisek; and Wilfert, Milos, 3,659,410.
 Snitker, Jens C. Solid composite boards having a compact core of adhesive binder and 85-98% by volume of porous, non-absorbing granulates selected from the group consisting of cork, bark, and vermiculite. 3,635,784, 1-18-72, Cl. 161-43.
 Snitzer, Elias: *See—*
 Landry, Robert J.; and Snitzer, Elias, 3,675,155.
 Robinson, Charles C.; and Snitzer, Elias, 3,664,725.
 Smith, Luther W.; and Snitzer, Elias, 3,700,303.
 Snitzer, Elias, to American Optical Corporation. Fiber for distortion free propagation. 3,646,462, 2-29-72, Cl. 330-4.3.
 Snitzer, Elias. Laser device. 3,652,954, 3-28-72, Cl. 331-94.5.
 Snitzer, Morton: *See—*
 Rogers, Walter Clark, Jr.; and Snitzer, Morton, 3,657,747.
 Snively, Hugh V.: *See—*
 McCrea, Alan F.; and Snively, Hugh V., 3,644,897.
 Sno-Trik Company: *See—*
 Bedo, Alfred; and Beck, Edward, 3,679,169.
 Snodgrass, Duane S.; and Lauderback, William H. Fire foam nozzle. 3,693,884, 9-26-72, Cl. 239-427.500.
 Snodgrass, Earl D.: *See—*
 Fuller, Ralph A.; and Snodgrass, Earl D., 3,640,190.
 Snodgrass, Hugh E.; and Lauchlan, Robert L., to Uniroyal, Inc. Polyphenylene oxide resins blended with coumarone-indene resins. 3,639,499, 2-1-72, Cl. 260-829.
 Snodgrass, Hugh E.; and Lauchlan, Robert L., to Uniroyal, Inc. Modified polyphenylene oxide resin compositions. 3,665,058, 5-23-72, Cl. 260-889.
 Snodgrass, Kenneth William; Steele, William Henry; Wilson, Alan; and Phelps, Ross Leslie, to Victa Limited. Mufflers for internal combustion engines. 3,685,613, 8-22-72, Cl. 181-33.00k.
 Snoek, Jacobus; and Naber, Jaap E., to Shell Oil Company. Method for controlling a sulfur recovery process. 3,692,480, 9-19-72, Cl. 423-239.000.
 Snook, Richard K., to Research Systems Corporation, mesne. Escapement mechanisms. 3,638,209, 1-25-72, Cl. 340-174.1.
 Snook, Richard K., to Diginetics Incorporated. Stenographic apparatus providing a magnetically recorded digitally encoded record. 3,665,115, 5-23-72, Cl. 178-21.000.
 Snook, Richard K.; and Stout, Rodney W., to Diginetics Incorporated. Indicia system for credit cards and the like. 3,700,862, 10-24-72, Cl. 235-61.12m.
 Snorkel Fire Equipment Company: *See—*
 Davidson, Kenneth H.; and Morris, Carrol V., 3,675,721.
 Langley, Robert E., 3,680,713.
 Snow, Austin Matthew, Jr., to Du Pont de Nemours, E. I., and Company. Process for preparing high-solids chloroprene polymer latex. 3,651,037, 3-21-72, Cl. 260-92.3.
 Snow, Austin Matthew, Jr., to Du Pont de Nemours, E. I., and Company. Process for preparing high-solids chloroprene polymer latex. 3,651,038, 3-21-72, Cl. 260-92.3.
 Snow, Charles L. Cartridge type filter and method of making same. 3,680,709, 8-1-72, Cl. 210-494.000.
 Snow, Clarence P. Conveyor system. 3,638,780, 2-1-72, Cl. 198-130.
 Snow, Gerald A., to United Industrial Syndicate, Inc. Apparatus for forming articles from thermoplastic sheet material. 3,632,250, 1-4-72, Cl. 18-109.
 Snow, Gerald A.; Doughty, Harold A.; Allard, Charles E.; and Noonan, Charles B. Indexing means and conveyors for use therewith. 3,688,963, 9-5-72, Cl. 226-162.000.
 Snow, Harland J.: *See—*
 Pasquine, Arthur R.; Snow, Harland J.; and Wagner, Edward E., 3,701,353.
 Snow, Harold Forest, to Borden, Inc. Method and apparatus for cleaning clams. 3,646,638, 3-7-72, Cl. 17-53.
 Snow, James A. Apparatus for cutting strips from vehicle tires. 3,701,296, 10-31-72, Cl. 82-54.000.
 Snow, John F.; and Clough, Roy L., Jr., to Xodar Corporation. Aerating system. 3,664,647, 5-23-72, Cl. 261-30.000.
 Snow, John Proctor: *See—*
 Callahan, James J.; and Snow, John Proctor, 3,693,757.
 Snow, Kenneth A.: *See—*
 Groneberg, Horst E.; and Snow, Kenneth A., 3,659,930.

- Snow, Ralph K., to CMI Corporation. Cross slope control of mobile machinery. 3,637,026, 1-25-72, Cl. 172-4.5.
- Snow, Ralph K., Jr.: *See—*
Swisher, George W., Jr.; Smith, Don W.; and Snow, Ralph K., Jr., 3,637,036.
- Snow, Robert C.: *See—*
Bourke, Edgar R., II; and Snow, Robert C., 3,675,816.
- Snow, Thomas W.: *See—*
Candidus, Edward S., Jr.; Snow, Thomas W.; and Ullathorne, John F., 3,652,165.
- Snow, William W. Magnetically controlled electron tube function generator. 3,660,770, 5-2-72, Cl. 328-253.
- Snowball Trading Agencies S.A.: *See—*
Polouektoff, Jean Paul, 3,683,837.
- Snowden, Bryan T.: *See—*
Dillon, Janus J.; and Snowden, Bryan T., 3,696,464.
- Snowden, Bryan T., to Food Equipment, Inc. Vaporizing apparatus for treatment of animal carcasses. 3,631,563, 1-4-72, Cl. 17-11.2.
- Snowden, Bryan T., to Food Equipment, Inc. Vaporizing technique for treatment of animal carcasses. 3,657,768, 4-25-72, Cl. 17-11.2.
- Snowdon, Charles. Pressure transducers. 3,690,148, 9-12-72, Cl. 73-37.000.
- Snowmobile, Ltd.: *See—*
Marose, Glen Edward, 3,672,700.
- Snoy, Joseph B.; and White, Basil, to Twin Disc Incorporated. Friction plate clutch having means to dampen plate flutter. 3,631,953, 1-4-72, Cl. 192-70.17.
- Snoy, Joseph B.; and Shull, Bradford K., to Twin Disc, Incorporated. Transmission having hydraulically actuated clutches with inertia brake. 3,651,904, 3-28-72, Cl. 192-4.
- Snoy, Joseph B.; and Shull, Bradford K., to Twin Disc, Incorporated. Selector valve assembly with mechanical latch. 3,667,501, 6-6-72, Cl. 137-612.100.
- Snuski, Fred F.: *See—*
Jones, Clarence O., Jr.; and Snuski, Fred F., 3,662,584.
- Snyder, Alan Howard, Jr.: *See—*
Pendergrass, Buford; Applequist, Quintin A.; and Snyder, Alan Howard, Jr., 3,664,717.
- Snyder, Alan K., to Chicago Display Company. Display stand and expandable shelf for use thereon. 3,640,389, 2-8-72, Cl. 211-148.
- Snyder, Betty A.: *See—*
Snyder, Marshall D.; and Snyder, Betty A., 3,691,647.
- Snyder, Carl J., to Westinghouse Electric Corporation. Method and apparatus for transmitting information in meter reading. 3,659,287, 4-25-72, Cl. 340-347.
- Snyder, Carl J., to Westinghouse Electric Corporation. Scanning arrangement for a multichannel totalizing system. 3,685,023, 8-15-72, Cl. 340-172.500.
- Snyder, Carl J., to Westinghouse Electric Corporation. Magnetodiode pulse initiator. 3,689,836, 9-5-72, Cl. 324-117.00r.
- Snyder, Carl R., to Esquire Inc. DC Detection circuit. 3,644,783, 2-22-72, Cl. 315-127.
- Snyder, Carl R., to Esquire Inc. Controlled high voltage lighting system for gaseous-discharge lamps. 3,681,653, 8-1-72, Cl. 315-106.000.
- Snyder, Charles H. A.: *See—*
Storey, William T., II; Procter, Robert F.; Snyder, Charles H. A.; Jacob, George M.; and Mooney, Raymond T., 3,672,046.
- Snyder, Christopher L.; and Hessinger, Philip S., to National Beryllia Corporation. Ceramic based substrates for electronic circuit with improved heat dissipating properties and circuits including the same. 3,694,699, 9-26-72, Cl. 317-100.000.
- Snyder, Clermont J.; and Moore, Jack P., to Anaconda Wire and Cable Company. Descaling copper rods. 3,659,830, 5-2-72, Cl. 266-3.
- Snyder, Clifford H., Jr. Bayonette lock coupling. 3,649,052, 3-14-72, Cl. 285-38.
- Snyder, Clifford H., Jr. Tubing coupling. 3,649,053, 3-14-72, Cl. 285-110.
- Snyder, David E.: *See—*
Higginbotham, Roy F.; Blonder, Fred D.; and Snyder, David E., 3,639,730.
- Snyder, David M., to Muncie Parts Mfg. Co., Inc. Reservoir assembly. 3,682,197, 8-8-72, Cl. 137-590.000.
- Snyder, Ernest L., to DTM Products Incorporated. Cord storing face plate. 3,689,868, 9-5-72, Cl. 339-119.00c.
- Snyder, Frank M. Stabilized antibiotic and method. 3,696,189, 10-3-72, Cl. 424-38.000.
- Snyder, Gary L. Convertible water sprinkling device. 3,679,136, 7-25-72, Cl. 239-188.000.
- Snyder, George E. Automatic baking oven for pretzels. 3,640,207, 2-8-72, Cl. 99-327.
- Snyder, George P.: *See—*
Nugent, Reginald F.; and Snyder, George P., 3,666,907.
Nugent, Reginald F.; and Snyder, George P., 3,674,975.
Nugent, Reginald F.; and Snyder, George P., 3,683,146.
- Snyder, George W.: *See—*
Ersamer, James R.; and Snyder, George W., 3,646,537.
- Snyder, Harlan K., Jr., to Chicago Display Company. Display device. 3,685,184, 8-22-72, Cl. 40-125.00h.
- Snyder, Harold I.; and Trexler, Richard R. Plastic bandage or splint. 3,674,021, 7-4-72, Cl. 128-90.000.
- Snyder, Harvey: *See—*
Alexeff, Alexander V.; and Snyder, Harvey, 3,650,000.
- Snyder, James H., to Clark Equipment Company. Means for controlling automatically moved vehicle. 3,646,890, 3-7-72, Cl. 104-1.
- Snyder, James H., to Clark Equipment Company. Valveless hydraulic control. 3,664,126, 5-23-72, Cl. 60-52.0hd.
- Snyder, James N.: *See—*
Lester, Raymond H.; and Snyder, James N., 3,641,795.
- Snyder, James R., to Teledyne, Inc. Turn conveyor. 3,690,443, 9-12-72, Cl. 198-182.000.
- Snyder, John, to General Motors Corporation. Vapor transfer. 3,662,818, 5-16-72, Cl. 165-23.
- Snyder, John Douglas: *See—*
Britton, Arthur Wray; Luckey, George Wilson; William, Glenn; and Snyder, John Douglas, 3,682,767.
- Snyder, John Harold: *See—*
Hollingsworth, Clinton A.; Snyder, John Harold; and Gudath, Ernest Andrew, 3,677,701.
- Snyder, John L.: *See—*
Bean, Arthur R., Jr.; Papavasiliou, Mary J.; and Snyder, John L., 3,651,025.
- Snyder, John Sommerville, to Sybron Corporation. Systems involving division. 3,675,003, 7-4-72, Cl. 235-196.000.
- Snyder Manufacturing Company, Inc.: *See—*
Johnson, Donald W., 3,687,137.
- Snyder, Marshall D.; and Snyder, Betty A. Wig dryer. 3,691,647, 9-19-72, Cl. 34-104.000.
- Snyder, Paul V., to General Electric Company. Electric oven toaster door operating mechanism. 3,658,050, 4-25-72, Cl. 126-340.
- Snyder, Paul V., to General Electric Company. Electric toaster with improved heat-up cool-down bimetal timer. 3,684,860, 8-15-72, Cl. 219-413.000.
- Snyder, Paul V., to General Electric Company. Electric oven toaster construction. 3,693,538, 9-26-72, Cl. 99-447.000.
- Snyder, Paul W., Jr.: *See—*
Hanson, Francis V.; and Snyder, Paul W., Jr., 3,684,694.
- Ireland, Henry R.; and Snyder, Paul W., Jr., 3,671,419.
- Snyder, Richard L. Plated wire memory. 3,654,627, 4-4-72, Cl. 340-174.
- Snyder, Richard N.; and Wheadon, Ellis G., to General Motors Corporation. Lead-acid storage battery paste. 3,702,265, 11-7-72, Cl. 136-26.000.
- Snyder, Robert L., to American Standard, Inc. Bimetallic elements. 3,678,757, 7-25-72, Cl. 73-363.500.
- Snyder, Robert M.: *See—*
Price, Harold J.; and Snyder, Robert M., 3,687,556.
- Snyder, Roderick C., to Wausau Iron Works. Adjustable wing plow with means to positively maintain adjustment. 3,659,363, 5-2-72, Cl. 37-50.000.
- Snyder, Rutherford B., Jr.: *See—*
Neidhart, John W.; and Snyder, Rutherford B., Jr., 3,658,058.
- Snyder, Stephen L. Automatic control system for parachutes. 3,667,705, 6-6-72, Cl. 244-150.000.
- Snyder, Steve, Enterprises, Inc.: *See—*
Puskas, Elek, 3,655,924.
- Snyder, Thomas P.: *See—*
Tarnopol, Milton S.; and Snyder, Thomas P., 3,671,311.
Tarnopol, Milton S.; and Snyder, Thomas P., 3,703,445.
- Snyder Trailer Company, The: *See—*
Linton, Thomas W., 3,636,892.
- So, Richard T., to Stewart-Warner Corporation. Compressed band-width transmission system. 3,649,751, 3-14-72, Cl. 178-6.
- So, Richard T.; and Mueller, Reinhold, to Solidyne Corporation. Automotive burglar alarm having battery current flow detector. 3,706,966, 12-19-72, Cl. 340-63.000.
- So-mar Dental Studios, Inc.: *See—*
Marshall, Edwin L.; Bocian, Harvey; and Hauptman, Neil L., 3,702,027.
- Soares, Silvio: *See—*
Dosey, Charles M.; Howell, John B.; and Soares, Silvio, 3,693,096.
- Yates, Lester R.; Dorsey, Charles M., Jr.; Howell, John B.; Conklin, Winfred S.; Sawicki, Joseph J.; Shepherd, Reeves T.; and Soares, Silvio, 3,641,434.
- Sobajima, Katsunobu: *See—*
Saitoh, Kohichi; Ohkubo, Nobuo; Sobajima, Katsunobu; and Hirano, Takeshi, 3,672,656.
- Sobajima, Masaru, to Nippon Kogaku K.K. Device for quenching and cooling a specimen in a high-temperature microscopic viewing system. 3,701,580, 10-31-72, Cl. 350-90.000.
- Sobchak, Frank L.: *See—*
Bardwell, Francis G.; Dobrauz, John W.; and Sobchak, Frank L., 3,704,373.
- Sobczak, Sigmund E. Smoking pipe holder. 3,678,940, 7-25-72, Cl. 131-260.000.
- Sobel, Alan: *See—*
Markin, Joseph; and Sobel, Alan, 3,700,802.

- Sobel, Alan, to Zenith Radio Corporation. Flat-panel image display with plural display devices at each image point. 3,647,958, 3-7-72, Cl. 178-7.3.
- Sobel, Alan; and Markin, Joseph, to Zenith Radio Corporation. Image-display devices comprising particle light modulators with storage. 3,670,323, 6-13-72, Cl. 340-324.00r.
- Sobel, David: *See—*
Frederick, Martin B.; and Sobel, David, 3,650,590.
- Sobel Industries: *See—*
Pfund, Adolph; and Sobel, Morton, 3,669,307.
- Sobel, Jay E.: *See—*
Hayes, John C.; and Sobel, Jay E., 3,632,709.
- Sobel, Jay E.; and Foley, John C., to Universal Oil Products Company. Continuous drawing of fibers from a mixture containing an inorganic oxide sol covered by a protective fluid. 3,652,749, 3-28-72, Cl. 264-63.
- Sobel, Johannes: *See—*
Himmelmann, Wolfgang; Schranz, Karl-Wilhelm; Sobel, Johannes; and Van Veen, George Frans, 3,676,143.
Kreuder, Manfred; Metzner, Wolfgang; Sobel, Johannes; Himmelmann, Wolfgang; and Nittel, Fritz, 3,687,671.
Nittel, Fritz; Sobel, Johannes; and Himmelmann, Wolfgang, 3,705,805.
- Sobel, Johannes; Himmelmann, Wolfgang; and Meckl, Heinz, to Agfa-Gevaert Aktiengesellschaft. Process of hardening photographic gelatin layers with a sulfonyl ester or a sulfonamide. 3,689,274, 9-5-72, Cl. 96-111.000.
- Sobel, Lucien; Parvi, Ludovic; and Isard, Arsene, to Ugine Kuhlmann. Flame retardant epoxy resins. 3,707,525, 12-26-72, Cl. 260-47.0ea.
- Sobel, Lucien; Parvi, Ludovic; and Isard, Arsene, to Ugine Kuhlmann. Polyhalogenated aromatic amines. 3,707,561, 12-26-72, Cl. 260-370.700.
- Sobel, Morton: *See—*
Pfund, Adolph; and Sobel, Morton, 3,669,307.
- Sobel, Sydney Murray, to O.S.F. Industries Limited. Locking device for modular display fixture. 3,684,228, 8-15-72, Cl. 248-188.100.
- Soberski, George, to Eaton Yale & Towne, Inc. Temperature responsive idling speed control device for internal combustion engine. 3,680,533, 8-1-72, Cl. 123-117.00r.
- Sobey, Albert J.; and Donlon, Richard H., to Transportation Technology, Inc. Speed and slip controlled traction drive. 3,675,583, 7-11-72, Cl. 104-23.0fs.
- Sobieski, James F.: *See—*
Hodes, Harvey A.; Sobieski, James F.; and Zerner, Michael C., 3,650,909.
- Sobieski, John C., to General Electric Company. Manufacture of lamps of the compact arc discharge type. 3,685,880, 8-22-72, Cl. 316-19.000.
- Sobin, Ben A.; Routien, John B.; Rao, Koppaka V.; Marsh, William S.; and Garretson, Aline L., to Pfizer Inc. Mithramycins as a transplanted tumor inhibiting agents. 3,646,194, 2-29-72, Cl. 424-119.
- Sobkow, William J., to Ford Motor Company. Motor vehicle restraint device. 3,702,706, 11-14-72, Cl. 280-150.0ab.
- Soboczenski, Edward J.: *See—*
Fitzgerald, David J.; and Soboczenski, Edward J., 3,649,241.
Mitchell, William D.; and Soboczenski, Edward J., 3,682,618.
- Sobolev, Sergei Petrovich: *See—*
Andreev, Pavel Alexeevich; Blinov, Konstantin Andreevich; Gremilov, Dmitry Ivanovich; Kanaun, Boris Izrailevich; Kanaev, Andrei Andreevich; Aslanian, Gurken Nazarovich; Paramonov, Pavel Mikhailovich; Panshin, Boris Mikhailovich; Sobolev, Sergei Petrovich; nd Shubenko-Shubin, Leonid Alexandrovich, 3,693,599.
- Deich, Mikhail Efimovich; Filippov, Gennady Alexeevich; Sobolev, Sergei Petrovich; and Povarov, Oleg Alexeevich, 3,652,182.
- Sobon, Leon E., to United States of America, Atomic Energy Commission. Preparation of rare earth oxide phosphors of high brightness and cathodoluminescent efficiency. 3,684,730, 8-15-72, Cl. 252-301.40r.
- Sobota, Herbert; Siepmann, Walter, Sr.; and Siepmann, Walter, Jr., to Siepmann-Werke KG. Protective mail mesh. 3,696,853, 10-10-72, Cl. 152-231.000.
- Sobotka, Jiri: *See—*
Dubsek, Frantisek; Tomes, Vaclav; Nigrin, Mojmir; and Sobotka, Jiri, 3,635,286.
- Sobotka, Erich Albert: *See—*
Schnell, Georg; Woellhaf, Josef; Richter, Volker; Schuhmacher, Gerd; and Sobotka, Erich Albert, 3,688,289.
- Sobotka, Richard: *See—*
Klenk, Ludwig; Strutzel, Hans; and Sobotka, Richard, 3,679,435.
- Sobrefina SA: *See—*
Ignell, Rolf Lennart, 3,666,163.
Ignell, Rolf Lennart, 3,680,996.
Rausing, Anders Ruben, 3,633,780.
Rausing, Anders Ruben, 3,677,774.
- Sobrevin Soc. de Brevets Industriels, Firma: *See—*
Vischiani, Giuseppe, 3,670,976.
- Sobukawa, Masukuni: *See—*
Yoshino, Takachika; Saito, Shigeru; Ishikura, Jun; Sasaki, Yutaka; and Sobukawa, Masukuni, 3,668,147.
- Soc. Az. Industrie Meccaniche Padovane Saimp: *See—*
Nadalini, Adino, 3,643,644.
- SOC. F.A.T.A. S.p.A.: *See—*
Di Rosa, Gaetano, 3,664,267.
- Socha, Robert P.: *See—*
Hopton, Thomas E.; and Socha, Robert P., 3,706,679.
- Societa Angelo Guala di Piergiacomo E. Roberto Guala & C.S.A.S.: *See—*
Guala, Piergiacomo, 3,638,821.
- Societa Angelo Guala di Piergiacomo E. Roberto Guala & C.S.A.S.: *See—*
Guala, Piergiacomo, 3,707,247.
- Societa Applicazioni Gomma Antivibranti "SAGA" S.p.A.: *See—*
Brizzolesi, Gustavo, 3,668,891.
- Societa Ceccato & C., S.p.A.: *See—*
Capra, Umberto, 3,633,231.
- Societa Ceramica Italiana Richard-Ginori S.p.A.: *See—*
Albertini, Emanuele, 3,660,886.
- Societa Farmaceutici Italia: *See—*
Amici, Alba-Maria; Minghetti, Anacleto; Scotti, Tullio; and Spalla, Celestino, 3,658,653.
- Arcamone, Federico; Franceschi, Giovanni; Glasser, Alfredo; and Dorigotti, Luciano, 3,646,046.
- Arcamone, Federico; Cassinelli, Giuseppe; Penco, Sergio; and Tognoli, Luigi, 3,686,163.
- Baldratti, Giuliana; Consonni, Alberto; and Sciaky, Roberto, 3,674,817.
- Bernardi, Luigi; Bosio, Germano; and Temperilli, Aldemio, 3,647,655.
- Bernardi, Luigi; Coda, Severina; Suchowsky, Giselbert Karl; and Pegrassi, Lorenzo, 3,658,803.
- Bernardi, Luigi; Bonsignori, Alberto; Coda, Severina; and Suchowsky, Giselbert Karl, 3,660,322.
- Bernardi, Luigi; Bosio, Germano; De Castiglione, Roberto; and Goffredo, Onofrio, 3,705,140.
- Cassinelli, Giuseppe; Cotta, Ernesto; Grein, Arpad; and Mazzoleni, Rosanna, 3,644,619.
- Cassinelli, Giuseppe; Cotta, Ernesto; Pennella, Paolo; and Faustini, Remo, 3,696,194.
- Societa Italiana Apparecchi de Precisione S.p.A.: *See—*
Kahl, Gerald J.; and Guidi, Guido N., 3,705,533.
- Societa Italiana Resine S.p.A.: *See—*
Ackermann, Jacob; Bianchi, Gaudenzio; and Radici, Pierino, 3,632,686.
- Ackermann, Jacob; Croce, Roberto; and Reguzzoni, Riccardo, 3,657,331.
- Ackermann, Jacob; Croce, Roberto; and Reguzzoni, Riccardo, 3,670,016.
- Ackermann, Jacob; Ferre, Franco; and Felice, Tetaz, 3,687,899.
- Ackermann, Jacob; Radici, Pierino; and Ferre, Franco, 3,692,876.
- Calcagno, Benedetto; Ghirga, Marcello; and Bertolini, Natale, 3,691,098.
- Calcagno, Benedetto; Ghirga, Marcello; and Ferlazzo, Natale, 3,657,371.
- Calcagno, Benedetto; Ferlazzo, Natale; and Ghirga, Marcello, 3,663,455.
- Calcagno, Benedetto; and Cairati, Luciano, 3,671,576.
- Calcagno, Benedetto; Colombo, Paolo; and Livraghi, Giovanni, 3,707,530.
- Cozza, Giorgio; Bottai, Gabriele; and Barilli, Filippo, 3,706,531.
- Ghirga, Marcello; Bertolini, Natale; and Di Fiore, Lucio, 3,683,043.
- Gualdi, Giorgio; Lugo, Luigi; and Reni, Cesare, 3,686,293.
- Lugo, Luigi; Gualdi, Giorgio; and Reni, Cesare, 3,703,547.
- Nistri, Ugo; Busti, Benito; and Grazzini, Giulio, 3,687,915.
- Paleologo, Teo; Vargiu, Silvio; and Pezzoli, Silvestro, 3,632,537.
- Paleologo, Teo; and Ackermann, Jacob, 3,632,655.
- Paleologo, Teo; and Vargiu, Silvio, 3,639,504.
- Paleologo, Teo; Reni, Cesare; and Lugo, Luigi, 3,644,472.
- Passalenti, Beppino; Vargiu, Silvio; and Nistri, Ugo, 3,635,859.
- Pitzalis, Mario; Vargiu, Silvio; and Nistri, Ugo, 3,674,732.
- Reni, Cesare, 3,641,214.
- Reni, Cesare; and Lugo, Luigi, 3,641,233.
- Reni, Cesare; Lugo, Luigi; and Gualdi, Giorgio, 3,673,244.
- Reni, Cesare; Gualdi, Giorgio; and Lugo, Luigi, 3,674,845.
- Vargiu, Silvio; Giovanni, Sesto S.; Nistri, Ugo; and Pezzoli, Silvestro, 3,687,896.
- Vargiu, Silvio; Pitzalis, Mario; and Abruzzi, Pierluigi, 3,705,116.
- Vargiu, Silvio; Pitzalis, Mario; and Abruzzi, Pierluigi, 3,705,117.
- Societa Italiana Telecomunicazioni S.p.A.: *See—*
Camiciottoli, Roberto; and Palombi, Maurizio, 3,692,964.
- Societa Italiana Telecomunicazioni Siemens S.p.A.: *See—*
Angeleri, Emanuele; and Lyghounis, Evangelo, 3,657,046.
- Angeleri, Emanuele; and Balugani, Fabio, 3,659,226.
- Balugani, Fabio; and Fornasiero, Paolo, 3,660,771.

- Casella, Luigi; Perna, Aldo; and Valbonesi, Giuseppe, 3,673,340.
 Cicognani, Enrico; and Lyghounis, Evangelo, 3,691,471.
 Ciotatellucci, Ezio, 3,657,562.
 Dal Monte, Giorgio, 3,657,482.
 De Marco, Franco, 3,634,629.
 De Nicolay, Giuliano; and Venturini, Piero, 3,670,255.
 Perna, Aldo; and de Varda, Giorgio, 3,641,275.
 Pipitone, Roberto, 3,643,594.
 Sarati, Luigi; and Battiston, Gianfranco, 3,657,470.
 Sarati, Luigi, 3,681,694.
 Valbonesi, Giuseppe, 3,665,125.
 Valentini, Nicola, 3,634,627.
 Venturini, Piero, 3,649,923.
 Societa' Nebiolo S.p.A.: *See*—
 Papa, Paolo; and Capetti, Federico, 3,643,598.
 Societa per Azioni Ferrania: *See*—
 Calligaris, Ennio; and Rossello, Mario, 3,647,450.
 Guzzi, Alberto; Magagnoli, Remo; and Vittore, Lorenzo, 3,647,468.
 Monachesi, Paolo, 3,643,577.
 Societa per l'Esercizio Dell Istituto Sperimentale Dei Metalli Leggeri: *See*—
 Paolini, Giancarlo; and Micheletti, Ciro, 3,692,644.
 Societa per l'Esercizio dell'Istituto Sperimentale dei Metalli Leggeri, S.p.A.: *See*—
 Di Russo, Ettore; and Conserva, Mario, 3,706,606.
 Societa Rhodiaca: *See*—
 Buzano, Michel, 3,683,612.
 Guillermin, Rene; and Joly, Jean, 3,644,969.
 Societa a Responsabilite Limitee dite Altic: *See*—
 Gerest, Marcel A. M., 3,707,269.
 Societa a Responsabilite limitee dite SERAM: *See*—
 Bourgeois, Jacques, 3,680,586.
 Societa a Responsabilite Limitee Doittau Products Metallurgie: *See*—
 Blancquart, Pierre, 3,687,700.
 Societa a Responsabilite Limitee: Forges & Trefileries de Conflandey: *See*—
 Jouin, Alfred, 3,699,627.
 Societa Alsacienne de Constructions: *See*—
 Laval, Robert Louis Gustave, 3,665,471.
 Societa Alsacienne de Constructions Atomiques de Telecommunication et d'Electronique "Alcatel": *See*—
 Goursolas, Anne-Marie Jeanne; and Lambert, Andre Simon Georges, 3,691,514.
 Societa Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique "Alcatel": *See*—
 Brilman, Michel Edmond Francis; Campagne, Jean-Pierre Alain; and Gorinas, Guy Georges, 3,641,517.
 Furstenberger, Jean; Lebrun, Guy; and Girault, Denis, 3,670,945.
 Gorinas, Guy G.; and Regal, Jean C. A., 3,702,500.
 Lambert, Andre Simon Georges, 3,651,479.
 Long, Jacques, 3,643,058.
 Sommeria, Jean, 3,663,853.
 Societa Alsacienne de Constructions Mecaniques de Mulhouse: *See*—
 Juillard, Yves, 3,678,968.
 Le Chatelier, Jacques, 3,668,854.
 Societa Anglade & Cie: *See*—
 Anglade, Francis, 3,657,789.
 Societa Anonyme Activit: *See*—
 Godel, Albert, 3,677,727.
 Societa Anonyme Alcatel-Heurtey: *See*—
 Sommeria, Jean, 3,651,360.
 Societa Anonyme Automobiles Citroen: *See*—
 Cadiou, Jean Georges, 3,679,263.
 Cadiou, Jean-Georges, 3,685,854.
 Fleury, Jacques, 3,643,082.
 Fleury, Jacques, 3,656,299.
 Grosseau, Albert, 3,631,946.
 Grosseau, Albert, 3,632,127.
 Grosseau, Albert, 3,661,069.
 Grosseau, Albert, 3,672,101.
 Grosseau, Albert, 3,674,544.
 Grosseau, Albert, 3,698,136.
 Grosseau, Albert, 3,705,818.
 Grosseau, Albert A. G., 3,672,240.
 Grosseau, Albert A. G., 3,701,542.
 Societa Anonyme Ciements Lafarge: *See*—
 Stiglitz, Paul; Sadran, Gerard; and De Saint-Chamant, Henri, 3,663,252.
 Societa Anonyme Conrad Zschokke: *See*—
 Merminod, Charles, 3,654,014.
 Societa Anonyme D.B.A.: *See*—
 Leverdant, Bernard, 3,638,763.
 Mangold, James, 3,674,317.
 Marouby, Guy, 3,666,326.
 Remillieux, Paul, 3,633,978.
 Rivolier, Charles, 3,707,623.
 Toullet, Pierre, 3,701,285.
 Societa Anonyme de Recherches de Mechanique: *See*—
 Couttet, James, 3,662,433.
 Societa Anonyme de Telecommunications: *See*—
 Bezerie, Jean Pierre, 3,642,233.
 Boulon, Jacques R.; Bertin, Marcel R.; and Nepomiaschty, Alexis, 3,636,481.
 Boulon, Jacques R.; and Nepomiaschty, Alexis, 3,678,419.
 Chaumont, Robert Jean, 3,662,126.
 Joubert, Alain Francois, 3,694,739.
 Societa Anonyme de Traverses en Beton Arme Systeme Vagneux: *See*—
 Serafin, Marian; and Decubber, Maurice, 3,658,247.
 Societa Anonyme de Vehicules Industriels et d'Equipements mecaniques S.A.V.I.E.M.: *See*—
 Brille, Maurice G.; and Baguelin, Yves-Marie E., 3,665,905.
 Brille, Maurice Georges, 3,707,340.
 Societa Anonyme des Entreprises: *See*—
 Romlet, Jean; and Cimadevilla, Armand, 3,680,275.
 Societa Anonyme des Etablissements NEU: *See*—
 Marcellin, Louis, 3,698,837.
 Societa Anonyme des Hauts Fourneaux de la Chiers: *See*—
 Farcy, Bernard C.; and Mazuir, Rene, 3,686,855.
 Mazuir, Rene A.; and Hoffmann, Daniel E., 3,707,170.
 Societa Anonyme des Usines Chausson: *See*—
 Chartet, Andre, 3,648,344.
 Chartet, Andre, 3,667,111.
 Chartet, Andre, 3,689,941.
 Chartet, Andre, 3,694,899.
 Chartet, Andre, 3,695,347.
 Societa Anonyme d'Explosifs Industriels-Celtite: *See*—
 Bourland, Andre, 3,699,687.
 Societa Anonyme dite Ciments: *See*—
 Allegre, Rene; and Allegre, Raymond, 3,705,815.
 Societa Anonyme dite Etablissements Cornard & Cie: *See*—
 Leger, Robert, 3,667,091.
 Societa Anonyme dite Francelco: *See*—
 Lafont, Maurice Louis, 3,644,871.
 Societa Anonyme dite: Ameco S.A.: *See*—
 Nass, Louis, 3,675,756.
 Societa Anonyme dite: Aquitaine-Organico: *See*—
 Colin, Roger, 3,669,166.
 Societa Anonyme dite: Bronzavia: *See*—
 Malczewski, Jeremie, 3,640,464.
 Societa anonyme dite: Cefilac: *See*—
 Burelle, Pierre; and Engelhardt, Jean Alfred, 3,660,184.
 Pommier, Pierre, 3,694,889.
 Societa anonyme dite: Compagnie Gervais-Danone: *See*—
 Carasso, Daniel, 3,674,507.
 Societa Anonyme dite: Etablissements Jacques Berthelat & Fils: *See*—
 Berthelat, Robert J., 3,669,242.
 Societa Anonyme dite: Etablissements Pierre Bevingut: *See*—
 Bevingut, Bernard, 3,702,684.
 Societa Anonyme dite: Gams S.A.: *See*—
 Gams, Paul Frederic Marie, 3,652,153.
 Societa Anonyme dite: Hexachimie: *See*—
 Hoffmann, Charles; and Dordilly, Andree, born Faure, 3,637,719.
 Societa Anonyme dite: Institut Merieux: *See*—
 Galy, Michel, 3,640,437.
 Societa Anonyme dite: Jumont-Schneider: *See*—
 Wiat, Albert, 3,639,818.
 Societa Anonyme dite: Laboratoire Roger Bellon: *See*—
 Pesson, Marcel, 3,681,330.
 Societa Anonyme dite: L'Oreal: *See*—
 Bore, Pierre, 3,674,038.
 Bouvet, Rene J.; and Daeninckx, Jean Georges, 3,636,207.
 Bugaut, Andree; and Estradier, Francoise, 3,690,810.
 Charle, Roger; Zviak, Charles; and Kalopissis, Gregoire, 3,686,701.
 Charle, Roger; Zviak, Charles; and Kalopissis, Gregoire, 3,691,270.
 Daeninckx, Jean, 3,659,373.
 Ghilardi, Guiliana; Kalopissis, Gregoire; De Beaulieu, Henri Philippe; and Abegg, Jean-Louis, 3,676,546.
 Kalopissis, Gregoire; Abegg, Jean-Louis; Ghilardi, Guiliana; and de Beaulieu, Henri Philippe, 3,642,429.
 Kalopissis, Gregoire; and Bugaut, Andree, 3,632,292.
 Kalopissis, Gregoire; and Bugaut, Andree, 3,649,158.
 Kalopissis, Gregoire; Bugaut, Andree; and Gaston-Breton, Hubert, 3,649,160.
 Kalopissis, Gregoire; and Bugaut, Andree, 3,658,455.
 Kalopissis, Gregoire; De Beaulieu, Henri Philippe; Abegg, Jean-Louis; and Ghilardi, Guiliana, 3,661,161.
 Kalopissis, Gregoire; and Bugaut, Andree, 3,665,036.
 Kalopissis, Gregoire; and Vanlerberghe, Guy, 3,666,671.
 Kalopissis, Gregoire; and Bugaut, Andree, 3,666,812.
 Kalopissis, Gregoire, 3,671,643.
 Kalopissis, Gregoire; De Raymond, Henri Philippe; Abegg, Jean-Louis; and Ghilardi, Guiliana, 3,672,375.

- Kalopissis, Gregoire; and Vanlerberghe, Guy, 3,674,902.
 Kalopissis, Gregoire; Bugaut, Andree; and Estradier, Francoise, 3,677,690.
 Kalopissis, Gregoire; Abegg, Jean-Louis; Ghilardi, Guiliana; and de Beaulieu, Henri Philippe, 3,678,157.
 Kalopissis, Gregoire; Bertrand, Jack; and Bugaut, Andree, 3,692,461.
 Kalopissis, Gregoire; and Viout, Andre, 3,693,633.
 Kalopissis, Gregoire; and Bugaut, Andree, 3,694,138.
 Kalopissis, Gregoire; Abegg, Jean-Louis; Ghilardi, Guiliana; and Philippe de Beaulieu, Henri, 3,694,141.
 Kalopissis, Gregoire; Gascon, Jean; Bugaut, Andree; Gallien, Jacqueline; and Gaston-Breton, Hubert, 3,697,215.
 Lachamp, Fleix; and Zviak, Charles, 3,662,061.
 Societa Anonyme dite: ORSYMONE: *See*—
 Lafon, Louis, 3,652,595.
 Lafon, Louis, 3,686,271.
 Lafon, Victor, 3,655,776.
 Vaile, Madeleine, born Penciolelli, 3,657,359.
 Societa Anonyme dite: Plastra: *See*—
 Friederich, Claude; and Cramazou, Etienne, 3,679,280.
 Societa Anonyme dite: Roussel-UCLAF: *See*—
 Boissier, Jacques R.; and Ratouis, Roger, 3,635,983.
 Boissier, Jacques R.; and Ratouis, Roger, 3,697,590.
 Boissier, Jacques Robert; and Ratouis, Roger, 3,674,841.
 Societa Anonyme dite: Roussel-UCLAF, mesne: *See*—
 Boissier, Jacques R.; and Ratouis, Roger, 3,651,049.
 Bonnat, Roger R.; and Ores, Bernard, 3,661,715.
 Societa Anonyme dite: Societe Industrielle pour la Fabrication des Antibiotiques (S.I.F.A.): *See*—
 Boissier, Jacques R.; and Ratouis, Roger, 3,634,507.
 Societa Anonyme dite: Societe Nationale des Petroles d'Aquitaine: *See*—
 Amiard, Yves; and Bellissent, Jean-Paul, 3,655,796.
 Esclamadon, Christian, 3,673,260.
 Esclamadon, Christian; Labat, Yves; and Signouret, Jean-Baptiste, 3,706,806.
 Favie, Claude; Dellsperger, Werner; and Meline, Philippe, 3,646,165.
 Favie, Claude; Dellsperger, Werner; and Meline, Philippe, 3,652,730.
 Lalet, Philippe; and Tsouladze, Guy, 3,666,734.
 Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean-Henry; Jorgensen, Kirsten Borre; and Bohlbros, Hans, 3,678,091.
 Societa Anonyme dite: Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, S.N.E.C.M.A.: *See*—
 Sauvan, Jacques Louis, 3,651,495.
 Societa Anonyme dite: Vallourec (Usines a Tubes de Lorraine-Escaut et Vallourec Reunies): *See*—
 Peytavin, Pierre, 3,698,225.
 Societa Anonyme Francaise: *See*—
 Moreau, Andre Jules Pierre, 3,675,574.
 Societa Anonyme Francaise des Appareils Automatiques Taximetres-Taxiphones S.A.F.A.A.: *See*—
 De Crepy, Edouard, 3,683,943.
 Societa Anonyme Francaise du Ferodo: *See*—
 Maurice, Jean, 3,638,425.
 Maurice, Jean, 3,643,764.
 Maurice, Jean, 3,664,469.
 Maurice, Jean, 3,667,321.
 Odier, Jean; Sambeth, Joerg; and Grundschober, Friedrich, 3,644,286.
 Odier, Jean; Sambeth, Joerg; and Grundschober, Friedrich, 3,644,287.
 Odier, Jean; Samberth, Joerg; and Grundschober, Friedrich, 3,644,288.
 Societa Anonyme Groupement Atomique Alsacienne Atlantique (G.A.A.): *See*—
 Chameroy, Jean, 3,635,876.
 Societa Anonyme Heurtey: *See*—
 Denis, Pierre M.; and Guicherd, Roger H., 3,663,107.
 Dessarts, Pierre Marie Louis, 3,656,719.
 Societa Anonyme Poclair: *See*—
 Gauchet, Yves M., 3,643,970.
 Gauchet, Yves M., 3,664,528.
 Gauchet, Yves M., 3,669,286.
 Leyrat, Pierre J., 3,677,604.
 Praddaude, Pierre A., 3,635,600.
 Praddaude, Pierre A., 3,656,294.
 Praddaude, Pierre A., 3,664,127.
 Praddaude, Pierre A., 3,679,179.
 Societa Anonyme pour l'Equipement Electrique des Vehicules S.E.V. Marchal: *See*—
 Besnard, Marcel, 3,659,309.
 Societa Anonyme Pronal: *See*—
 Josien, Daniel, 3,704,859.
 Societa Anonyme Richier: *See*—
 Durand, Pierre, 3,642,148.
 Societa Anonyme, Societa Alsacienne de Constructions Atomiques de Telecommunications et d'Electronique "Alcatel": *See*—
 Roiron, Jean-Pierre Louis; and Loyau, Guy, 3,691,341.
 Societa Anonyme, Societa Miner et Metallurgique de Penanoya: *See*—
 Bailly, Roger Gaston, 3,675,827.
 Societa Anonyme STOP: *See*—
 Guidicelli, Charles, 3,701,614.
 Guidicelli, Charles, 3,701,934.
 Societa Anonyme Telecommunications Radioelectriques et Telephoniques, T.R.T.: *See*—
 Stein, Michel Guy Pierre, 3,647,967.
 Societa Anonyme Thimonnier & Cie: *See*—
 Roussel, Jean-Charles, 3,656,386.
 Societa Anonyme Uguine Kuhlmann: *See*—
 Aguinet, Gerard; Manoury, Jean; and Martin, Edouard, 3,658,472.
 Societa Anonyme Usines Emile Hennicot Court-Saint-Etienne (Belgium): *See*—
 Henricot, Paul, 3,682,104.
 Societa Anonyme Usines Emile Henricot: *See*—
 Henricot, Paul, 3,677,363.
 Societa Anonyme: Centre European de Recherches Mauvernay: *See*—
 Mauvernay, Roland Yves; Busch, Norbert; Moleyre, Jacques; and Simond, Jacques, 3,637,680.
 Societa Anonyme: Ciments Lafarge: *See*—
 Borreill, Andre B., 3,692,286.
 Stiglitz, Paul, 3,649,318.
 Vibert, Claude Jacques; and Le Pape, Louis Jean Theodore, 3,702,133.
 Societa Anonyme: Ethylene-Plastique: *See*—
 Boucheron, Bernard, 3,651,031.
 Societa Anonyme: Les Produits Organiques du Santerre Orsan: *See*—
 Pelluet, Jacques Guy, 3,705,085.
 Societa Anonyme: Uguine Kuhlmann: *See*—
 Egalon, Roger; and Tella, Ramiro, 3,644,216.
 Klein, Andre, 3,690,812.
 Societa Anonymet dite: L'Oreal: *See*—
 Lachamp, Felix; Viout, Andre; and Vanlerberghe, Guy, 3,642,980.
 Societa Argenton, Societa Anonyme: *See*—
 Viaud, Jean, 3,702,091.
 Societa Belge pour l'Industrie Nucleaire S.A.: *See*—
 Van Dievoet, Jean-Paul Laurent, 3,699,638.
 Societa Boussoirs-Souchon-Neuvesel: *See*—
 Prislant, Georges, 3,658,503.
 Societa Chimique de Gerland: *See*—
 Lansaque, Rene; and Bonnefond, Georges, 3,690,684.
 Societa Chimique de la Grande Paroisse, Azote et Produits Chimiques: *See*—
 Senes, Michel; Lhonore, Pierre; and Quibel, Jacques, 3,644,557.
 Societa Chimique des Charbonnages: *See*—
 Copin, Robert; Sinn, Robert; and Bouilly, Charles, 3,669,641.
 Ivanovsky, Georges, 3,661,855.
 Societa Chimique des Charbonnages tour Aurore: *See*—
 Aubry, Jean; and Yax, Emile, 3,700,741.
 Societa Chimique des Charbonnages: *See*—
 Aubry, Jean; and Lenclud, Francois, 3,634,326.
 Societa Civile d'Inventions Idees: *See*—
 Blanie, Marie Jean Michel Paul; Ramis, Jean; and Robert, Henri R., 3,705,667.
 Societa Civile dite de Centrifugation: *See*—
 Peytavin, Pierre; and Babel, Louis, 3,702,630.
 Societa Civile Textile Dite Socitex: *See*—
 Batsch, Guy Jean, 3,666,008.
 Societa Cnmp-Berthiez: *See*—
 Neuman, Marcel, 3,688,611.
 Societa d'Aerodynamique et de Thermodynamique Francaise en abregé S.O.F.R.A.I.R.: *See*—
 Rabilloud, Pierre; and Guichard, Jean-Claude, 3,686,836.
 Societa d'Appareillage Electrique Saparel: *See*—
 Morin, Jean; and Desperrier, Gerard, 3,644,694.
 Societa d'Appareils de Controle et d'Equipement des Moteurs S.A.C.E.M.: *See*—
 Mennesson, Bernard Rene, 3,655,015.
 Societa d'Applications Generales d'Electricite et de Mecanique: *See*—
 Thiaffey-Rencorel, Gilbert A., 3,657,711.
 Societa d'Applications Generales d'Electricite et de Mecanique Sagem: *See*—
 Claret, Rene, 3,657,637.
 Societa d'Assistance Technique pour Produits Nestle S.A.: *See*—
 Gasser, Rupert Josef, 3,645,753.
 Mishkin, Abraham Rudolph; and Symbolik, William Stephen, 3,633,283.
 Mourey, Jean-Jacques; and Badertscher, Ernest, 3,705,143.
 Rostagno, Walter, 3,707,382.
 Societa de Conditionnement en Aluminium SCAL GP: *See*—
 Couland, Roger, 3,661,301.
 Societa de Conditionnement en Aluminium: *See*—
 Couland, Roger, 3,698,221.

- Societe de Construction et d'Exploitation de Matériels et Moteurs S.C.E.M.M.: *See—*
Lermusiaux, Lucien, 3,644,070.
- Societe de Constructions Mecaniques de Creil: *See—*
Gaudin, Jean, 3,666,195.
- Societe de Constructions Mecaniques Panhard & Levassor: *See—*
Panhard, Jean, 3,703,887.
Panhard, Jean, 3,704,592.
- Societe de Constructions Mechaniques: *See—*
Panhard, Jean, 3,683,868.
- Societe de Fabrication d'Instruments de Mesure (SFIM): *See—*
Autechaud, Denis; and Grisard, Jean-Claude, 3,697,022.
Donjon, Jacques, 3,665,496.
- Societe de l'Aerotrain: *See—*
Cruchant, Serge Alfred Joseph, 3,695,383.
Du Merle, Guy Charles Marie Joseph, 3,658,010.
Schmitt, Henri Francois Marie; and Marande, Claude, 3,695,382.
- Societe de Participations Verrieres: *See—*
De Bussy, Jacques Marie Yves LeClerc, 3,659,029.
- Societe de Produits Chimiques Marles-Kuhlmann: *See—*
Lamendin, Arthur; Matel, Bernard; and Dhenin, Jean, 3,654,271.
- Societe de Recherches et de Realisations Industrielles S.R.R.I. (Societe Anonyme): *See—*
Strube, Henri Robert, 3,643,344.
- Societe de Recherches Industrielles S.O.R.I.: *See—*
Carraz, Gilbert L.; and Boucherle, Andre L., 3,671,532.
- Societe de Traitements Electrolytiques et Electrothermiques (S.T.E.L.): *See—*
Moulin, Jean; Doucerain, Jacques; and Dallet, Bernard, 3,632,948.
- Societe de Traitements Electrolytiques et Electrothermiques (S.T.E.L.): *See—*
Dallet, Bernard; Doucerain, Jacques; and Moulin, Jean, 3,646,304.
Douceurain, Jacques J. D., 3,650,710.
Moulin, Jean, 3,704,357.
- Societe de Wendel et Compagnie: *See—*
Andriussi, Francois Georges, 3,705,709.
- Societe des Accumulateurs Fixes et de Traction (Societe Anonyme): *See—*
Blondel, Alain; and Jammet, Jean-Firmin, 3,663,721.
Bougaran, Marcel, 3,650,842.
Caiola, Amedee Jean-Claude; Guy, Henri Robert; and Sohm, Jean-Claude, 3,658,593.
Croissant, Pierre Michel Rene; Armbruster, Jean-Claude; and Chaumeau, Andree, 3,697,327.
Dalard, Francis Jean; Augustinsky, Jan Witold; and Sohm, Jean-Claude, 3,679,488.
Gabano, Jean-Paul; and Gerbier, Gerard Marcel, 3,701,688.
Gerbier, Gerard Marcel; and Dechenaux, Victor Louis, 3,655,446.
Gerbier, Gerard Marcel; and Dechenaux, Victor Louis, 3,661,648.
Godard, Pierre, 3,668,418.
Jammet, Jean Firmin, 3,679,489.
Jammet, Jean Firmin, 3,697,326.
Pinard, Emile Jean Lucien, 3,679,481.
- Societe des Accumulateurs Fixes et de Traction (Societe Anonyme): *See—*
Pont de la Folie: *See—*
Chamodon, Pierre, 3,692,588.
- Societe des Aciers Fins de l'Est: *See—*
Pomey, Jacques, 3,700,779.
- Societe des Fabrications Biraghi-Entrepose: *See—*
Pignal, Edmond, 3,662,942.
- Societe des Fonderies de Pont-A-Mousson: *See—*
Hauth, Jean-Marc, 3,692,148.
- Societe des Grands Travaux de Marseille: *See—*
Bechi, Rene, 3,653,634.
- Societe des Lunetiers: *See—*
Delmas, Jean-Raymond, 3,657,802.
Maitenaz, Bernard F., 3,687,528.
- Societe des Lunetiers, Societe en Commandite simple a Capital Variable: *See—*
Tagnon, Luc Andre, 3,631,637.
- Societe des Mines et Fonderies de Zinc de la Vieille Montagne S.A.: *See—*
Bodson, Fernard Jacques Joseph, 3,652,264.
- Societe des Procédes Modernes d'Injection SOPROMI: *See—*
Monpetit, Louis A., 3,669,081.
- Societe des Procédes Modernes d'Injection Sopromi: *See—*
Gueret, Herve, 3,669,361.
Monpetit, Louis; Huber, Robert; and Ufnalewski, Jacek, 3,680,782.
Monpetit, Louis A., 3,645,240.
Monpetit, Louis A., 3,651,343.
Monpetit, Louis A., 3,651,792.
Monpetit, Louis A., 3,653,365.
- Monpetit, Louis A., 3,659,563.
Monpetit, Louis A.; and Advenier, Pierre M., 3,665,901.
Monpetit, Louis A., 3,669,361.
Monpetit, Louis A., 3,672,345.
- Societe des Transports Petroliers par Pipe-Line (Societe Anonyme): *See—*
Paul, Guy, 3,661,015.
- Societe des Verreries Industrielles Reunies du Loing: *See—*
Genisson, Roger R.; and Thibieroz, Jean Pierre A., 3,650,722.
- Societe d'Etudes & d'Application des Techniques Nouvelles NEOTEC: *See—*
Honore, Etienne A. H.; and Torcheux, Emile, 3,689,926.
- Societe d'Etudes Contre La Corrosion (SECC): *See—*
Heuze, Bernard Marie Louis, 3,684,680.
- Societe d'Etudes de Brevets et d'Applications Technologiques, (S.E.B.A.T.): *See—*
Le Gloan, Andre, 3,702,959.
- Societe d'Etudes de Machines Speciales: *See—*
Chambon, Louis Jean, 3,685,823.
- Societe d'Etudes de Machines Thermiques: *See—*
Haug, Albert, 3,703,126.
- Societe d'Etudes de Produits Chimiques: *See—*
Leroi, Eugene L., 3,632,590.
- Societe d'Etudes de Recherches et d'Applications Scientifiques et Medicales E.R.A.S.M.E.: *See—*
Pedrazzoli, Andrea; and Dall'Asta, Leone, 3,663,617.
Pedrazzoli, Andrea; and Asta, Leone Dall, 3,702,850.
- Societe d'Etudes des Machines Speciales Societe Anonyme: *See—*
Chambon, Louis Jean, 3,633,504.
- Societe d'Etudes et d'Applications Biochimiques: *See—*
Laboureur, Pierre; and Villalon, Michel, 3,634,191.
- Societe d'Etudes et de Developpement des Aeroglisseurs Marins terrestres et Amphibies S.E.D.A.M.: *See—*
Bertin, Jean Henri, 3,677,361.
- Societe d'Etudes et de Developpement des Aeroglisseurs Marins Terrestres et Amphibies S.E.D.A.M.: *See—*
Delamare, Guy Robert, 3,643,757.
Marchetti, Charles Joseph; and Faure, Marc Henri Jean, 3,680,657.
Pont, Dominique Etienne Louis, 3,661,110.
- Societe d'Etudes et de Developpement des Industries Modernes (S.E.D.I.M.): *See—*
Hubler, Robert, 3,666,276.
- Societe d'Etudes et de Realisations Electroniques: *See—*
Bezu, Maurice, 3,664,748.
- Societe d'Etudes et d'Exploitation de Procédes pour l'Industrie Alimentaire Sepial: *See—*
Bonteil, Robert C., 3,670,520.
- Societe d'Etudes Ferroviaires: *See—*
Sonneville, Roger Paul, 3,688,984.
- Societe d'Etudes, Recherches et Constructions Electroniques S.E.R.C.E.L.: *See—*
Bodin, Jacques, 3,659,174.
- Societe d'Etudes Scientifiques et Industrielles: *See—*
Thominet, Michel Leon, 3,662,070.
- Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France: *See—*
Bulteau, Gerard, 3,632,629.
Thominet, Michel Leon, 3,644,644.
- Societe d'Etudes Techniques et d'Entreprises Generales (SODETEC): *See—*
Laplume, Jacques, 3,665,615.
- Societe d'Etudes Techniques et d'Entreprises Generales (SODETEG): *See—*
Laplume, Jacques, 3,660,912.
- Societe d'Etudes Verrieres Appliquees (S.E.V.A.): *See—*
Lagoutte, Serge, 3,635,636.
Lagoutte, Serge, 3,685,938.
- Societe d'Etudes et de Vente de Matériels pour la Fabrication et le Façonnage du Carton Ondule: *See—*
Barny, Jean Jacques, 3,668,786.
- Societe d'Exploitation des Brevets Granofibre: *See—*
Jacquelin, Guy, 3,679,542.
- Societe d'Exploitation des Brevets Neiman S.A.: *See—*
Lipschutz, Paul; and Lercy, Jean-Pierre, 3,688,861.
Pieck, Christian; and Schaumburg, Guenter, 3,633,394.
- Societe d'Exploitation des Ressorts Auto-Amortisseurs: *See—*
Jarret, Jean; and Jarret, Jacques, 3,687,440.
- Societe d'Exploitations Chimiques et Pharmaceutiques Seceph: *See—*
Bonola, Giuseppe; Da Re, Paolo; and Setnikar, Ivo, 3,637,681.
- Societe d'Exploitations Chimiques et Pharmaceutiques Seceph S.A.: *See—*
Massarani, Elena; Nardi, Dante; and Degen, Ludwig, 3,647,879.
- Societe d'Exploitations et de Realisations Industrielles et Commerciales Serico: *See—*
Giroud, Henri Philibert, 3,679,104.
- Societe d'Instrumentation Schlumberger: *See—*
Dumast, Michel; Rouzaud, Guy; and Thevenin, Luc, 3,693,022.
Lahaye, Raymond, 3,686,948.

- Percher, Guy, 3,699,523.
Picot, Clement, 3,660,834.
- Societe dite Courreges Parfums: *See—*
Barriere, Jacqueline, 3,663,259.
- Societe dite: A. Scheyen Fils S.A.: *See—*
Scheyen, Marcel, 3,641,944.
- Societe dite: Compagnie Industrielle des Bracelet C.I.B. (Societe Anonyme): *See—*
Epiard, Eugene Jean Robert, 3,685,107.
- Societe dite: Kuhn Freres & Cie., Societe en Commandite Simple: *See—*
Reber, Walter, 3,690,055.
- Societe dite: Lebacey Industrie: *See—*
Palencher, Jacques; and Penard, Michel, 3,705,351.
- Societe dite: Societe Kuhn Freres & Cie. Societe en Commandite Simple: *See—*
Reber, Walter, 3,704,577.
- Societe d'Optique, Precision, Electronique et Mecanique-Sopelem: *See—*
Llop, Helenio, 3,672,777.
- Societe d'Optique, Precision, Electronique et Mecanique-Sopelem: *See—*
Llop, Helenio, 3,705,311.
- Societe en nom collectif "Science Union et Cie: *See—*
Beregi, Laszlo; Hugon, Pierre; and Le Douarec, Jean-Claude, 3,663,595.
- Societe en nom collectif "Science Union et Cie, Societe Francaise de Recherche Medicale": *See—*
Malen, Charles; and Pascaud, Xavier, 3,681,499.
- Societe en nom collectif "Science Union et Cie, Societe Francaise de Recherche Medicale": *See—*
Beregi, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Duhault, Jacques, 3,683,008.
Beregi, Laszlo; Hugon, Pierre; Le Douarec, Jean-Claude; and Duhault, Jacques, 3,683,088.
Beregi, Laszlo; Hugon, Pierre; and Desnoyers, Pierre, 3,696,117.
Malen, Charles; Danree, Bernard; and Pascaud, Xavier, 3,686,190.
Regnier, Gilbert; Canevari, Roger; and Laubie, Michel, 3,647,794.
Regnier, Gilbert; Canevari, Roger; and Duhault, Jacques, 3,705,899.
Vincent, Michel; Remond, Georges; and Poignant, Jean-Claude, 3,697,588.
- Societe Ethylene Plastique: *See—*
Boucheron, Bernard, 3,655,634.
Nicco, Adrien; and Boucheron, Bernard, 3,644,302.
Pied, Jean-Philippe, 3,676,395.
- Societe F. Beghin Thumeries: *See—*
Goldstein, Guy, 3,688,767.
- Societe Fabrique de Horlogerie la Vedette Saverne Societe Jaz S.A.: *See—*
Zeter, Francois; Bellardy, Roger; Poulligny, Claude; and Walter, Marc, 3,702,529.
- Societe Financiere Francaise de Licences et Brevets: *See—*
Potin, Marcel, 3,639,969.
- Societe Financiere Francaise de Licences et Brevets: *See—*
Jakob, Horst, 3,699,618.
- Societe Fives Lille-Cail: *See—*
Dambrine, Francis; Giorgi, Jean-Claude; and De Cremoux, Jacques, 3,687,636.
- Societe Flaminaire Marcel Quercia: *See—*
Lambert, Jacques, 3,679,346.
- Societe Forezienne de Moulinage et Texturation: *See—*
Hilaire, Marcel Marius Adrien, 3,667,208.
- Societe Francaise de l'Electro-Resistance: *See—*
Maurice, Jean, 3,665,364.
- Societe Francaise d'Eligetage Virey & Garnier: *See—*
Delle Vite, Romuald Rene, 3,634,175.
- Societe Francaise d'Instruments de Contrôls et d'Analyses: *See—*
Virloget, Jean Marcel, 3,669,546.
- Societe Francaise d'Optique et de Mecanique S.F.C.M.: *See—*
Waldruche de Montremy, Jacques, 3,687,534.
- Societe Franco-Hispano-Americaine Francispam: *See—*
Hocq, Robert R., 3,653,416.
- Societe Generale Ceramique du Batiment: *See—*
Chenel, Francois; and Swinnen, Richard Louis, 3,642,605.
- Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM): *See—*
Warszawski, Bernard; and Vandenbergh, Henri, 3,690,954.
- Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM): *See—*
Alexandre, Philippe, 3,643,443.
Bell, Jean, 3,666,329.
Chadenson, Pierre, 3,667,298.
Chadenson, Pierre, 3,690,184.
Dicky, Leonide, 3,659,662.
Dicky, Leonide, 3,666,330.
Dicky, Leonide, 3,666,333.
Goirand, Pierre, 3,662,691.
Rouxel, Roland; and Chevalier, Gabriel, 3,644,719.
- Soffer, Jacques; and Lhommelet, Robert, 3,697,845.
Vallet, Guy, 3,695,043.
Vidal, Gilbert; and Peron, Bernard, 3,651,390.
- Societe Generale de Constructions Electroniques et Mecaniques (Alsthom): *See—*
Lemoine, Jacques; and Lugand, Paul, 3,693,353.
- Societe Generale des Produits Refractaires: *See—*
Bauer, Jean-Michel; and Brossard, Andre, 3,656,721.
Herzberg, Claude, 3,641,953.
Kiehl, Jean-Pierre; and Valentin, Georges, 3,652,306.
- Societe Grenobloise d'Etudes et d'Applications Hydrauliques (SOGREAH): *See—*
Minart, Paul, 3,673,085.
- Societe Grenobloise d'Etudes et d'Applications Hydrauliques (SOGREAH): *See—*
Blanchet, Charles, 3,636,904.
- Societe Industrielle Bull-General Electric (Societe Anonyme): *See—*
Girard, Rene Fernand Victor; and Baton, Hubert Lucien Louis, 3,682,604.
Grandgirard, Pierre J., 3,638,605.
Lee, Elsie Chang, 3,695,541.
Prival, Guy; and Prieur, Lucien Robert, 3,701,858.
- Societe Industrielle de Brevets et d'Etudes S.I.B.E.: *See—*
Arnaud, Gaston, 3,688,756.
Mennesson, Andre L., 3,683,877.
Mennesson, Andre Louis, 3,646,914.
Mennesson, Andre Louis, 3,654,905.
Mennesson, Andre Louis, 3,661,134.
Mennesson, Andre Louis, 3,661,367.
Pierlot, Michel Eugene, 3,677,526.
- Societe Industrielle de Construction d'Appareils et de Materiel Electriques S.I.C.A.M.E.: *See—*
Prodel, Marcel Desire, 3,688,247.
- Societe Industrielle de Filtration (Sofitra): *See—*
Lucas, Jean-Claude; and Madin, Andre, 3,631,582.
- Societe Industrielle de Travaux Electro-Mecaniques (S.I.T.E.M.): *See—*
Coquard, Lucien, 3,704,513.
- Societe Industrielle d'Electro-Metallurgie: *See—*
Viellet, Guy, 3,648,341.
- Societe Industrielle des Silicoes: *See—*
Meiller, Francois, 3,652,627.
- Societe Industrielle Electronique et d'Informatique: *See—*
Murtin, Fernand R. C.; and Storey, Owen, 3,634,760.
- Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A.: *See—*
Gelin, Robert, 3,644,072.
Isaac, Olivier, 3,650,108.
Isaac, Olivier, 3,672,166.
Vuaille, Andre; and Pigeroulet, Jean, 3,658,040.
Vuaille, Andre, 3,695,244.
Vuaille, Andre, 3,698,369.
- Societe Industrielle Honeywell Bull: *See—*
Bankovic, Atanasije, 3,644,844.
Bankovic, Atanasije M., 3,668,437.
Daproux, Jacques Roland, 3,696,993.
Girard, Rene Fernand Victor, 3,637,466.
Girard, Rene Fernand Victor; and LeGuillerm, Jacques, 3,644,857.
Girard, Rene Fernand Victor; and Gidon, Marie-Claire, 3,666,641.
Girard, Rene Fernand Victor; and Le Guillerm, Jacques, 3,669,866.
Kohler, Bernard Claude; Mahoussi, Gerard Philippe; and Tournon, Serge Auguste, 3,653,006.
Laboue, Bernard Andre, 3,701,726.
- Societe Industrielle Honeywell Bull (Societe Anonyme): *See—*
Colaud, Gerard; and Fanene, Bernard, 3,699,396.
- Societe Industrielle Honeywell Bull Societe (Societe Anonyme): *See—*
Jamnaud, Andre, 3,675,084.
- Societe Inter-Elec.: *See—*
Malon, Jean Pierre; and Adde, Joseph W., 3,682,512.
- Societe Internationale d'Application de Procédes Industriels (S.I.A.P.I.) S.A.: *See—*
Viazzi, Pierre, 3,667,782.
- Societe Internationale de Mecanique Industrielle S.A.: *See—*
Bardet, Jean-Claude, 3,643,966.
Mincuzzi, Antonio, 3,663,026.
- Societe Lablato: *See—*
Bret, Pierre; and Suck, Catherine, 3,684,195.
- Societe Lannionaise d'Electronique: *See—*
Jacob, Jean-Baptiste, 3,705,958.
- Societe Lannionaise d'Electronique: *See—*
Garnier, Michel; and Bigou, Jacques, 3,686,533.
Jacob, Jean-Baptiste, 3,674,938.
Jacob, Jean-Baptiste; and Lavanant, Pierre, 3,683,162.
Renoulin, Roger, 3,686,657.
Tallegas, Francois, 3,644,679.
Tallegas, Francois, 3,676,855.
- Societe Les Piles Wonder: *See—*

- Angibaud, Rene M., 3,671,734.
- Societe Lignes Telegraphiques et Telephoniques: *See—*
Borgne, Roland; Joy, Jean; and Rosiaux, Edouard, 3,661,760.
Chiron, Bernard; and Duffau, Louis, 3,681,716.
Chiron, Bernard; Deschamps, Andre; and Duffau, Louis, 3,697,901.
Joly, Jean; and Blangeard, Gerard, 3,661,754.
Michelet, Pierre; and Joly, Jean, 3,634,202.
- Societe Lorraine de Preparation Textile: *See—*
Lageron, Louis; and Raquin, Roger, 3,678,548.
- Societe Lyonnaise de Plomberie Industrielle: *See—*
Blum, Paul; Lefrancois, Jacques; and Vinarnick, Louis, 3,705,101.
- Societe Melle-Bezons: *See—*
Passedouet, Andre Henri; Roussos, Michel G.; Pigeot, Jacqueline; and Paillote, Nicole, 3,652,584.
- Societe Messier: *See—*
Lucien, Rene; Pascal, Yves A.; and Ghobert, Pierre M., 3,661,052.
Lucien, Rene, 3,669,387.
Lucien, Rene, 3,677,373.
- Societe Metallurgique de Douarneneg: *See—*
Loblois, Michel, 3,637,105.
- Societe Meusienne de Constructions Mecaniques: *See—*
Giros, Marcel A. P., 3,689,000.
- Societe Nationale des Petroles d'Aquitaine: *See—*
Amiard, Yves; Bellissent, Jean-Paul; and Marie, Gilbert, 3,642,730.
Biensan, Michel; and Bruant, Philippe, 3,657,194.
Biensan, Michel; and Bruant, Philippe, 3,705,871.
Blanc, Jean, 3,654,354.
Bonzom, Albert; and Tramier, Bernard, 3,676,442.
Laffont, Maurice, 3,645,103.
Legendre, Pierre, 3,637,789.
Legendre, Pierre, 3,662,010.
Lucas, Georges; and Viallet, Claude, 3,681,217.
Lucas, Georges; and Viallet, Claude, 3,681,218.
Meharry, James L., 3,654,751.
Pflugfelder, Bernard, 3,639,610.
Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean-Henry; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,641,102.
Teitgen, Jean; and Mornet, Philippe, 3,639,368.
Tramier, Bernard; and Bonzom, Albert, 3,635,999.
- Societe Nationale des Petroles d'Aquitaine Tour Aquitaine: *See—*
Barbier, Maurice, 3,698,009.
Biensan, Michel; and Bruant, Philippe, 3,651,024.
Labat, Yves, 3,655,774.
Mornet, Philippe; Teitgen, Jean; and Marie, Gilbert, 3,636,019.
Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,686,265.
- Societe Nationale d'Etude et de Construction de Moteurs d'Aviation: *See—*
Bauger, Louis Jules; and Lacroix, Armand Jean-Baptiste, 3,633,361.
Bauger, Louis Jules; Beyler, Roland Robert Charles; Le Guen, Henri; Pidebois, Jacques Eloi; and Schenher, Michel Bernard, 3,677,013.
Camboulives, Andre Alphonse Mederic Leon; Delonge, Jean-Claude Lucien; Cesson, Theophile Francois Le Maout; and Vandenbroucke, Alfred Jiles, 3,687,222.
Champagnon, Jean Pierre, 3,707,678.
Citroen, Armand, 3,640,545.
Dorier, Bernard Louis Marcel; and Laedlein, Denis Jacques, 3,680,113.
Ducrot, Alain Jean Edmond; Poulain, Jacques Constant; Pavon, Miguel Sancho; and Turpin, Michel Louis, 3,694,333.
Francois, Martin; Bruyere, Marcel; and Chatelet, Henri, 3,682,506.
Garnier, Michel Robert; and Rioux, Christian Paul Gilbert, 3,678,306.
Greiner, Gerard, 3,695,038.
Holz, Robert Gustave; and Braun, Adolf, 3,680,363.
Jumelle, Louis Francois, 3,682,269.
Mandineau, Daniel Paul Henri; Mourey, Michele Yvonne Christiane; Pizzini, Georges Philippe Henri; and Poulain, Jacques Constant, 3,668,017.
Menioux, Claude Charles Felix, 3,635,029.
Nicolas, Michel Jacques Robert; and Pirolli, Claude Marius, 3,662,385.
Rioux, Christian Paul Gilbert, 3,705,775.
Schott, Marcel Rene, 3,662,782.
- Societe Nationale Industrielle Aerospatiale: *See—*
Alic, Andre A. L.; Porte, Gilbert R. A.; Giotin, Joseph M. H.; Higounenq, Francis J.; and Boussin, Serge P., 3,703,675.
Baillard, Marcel, 3,696,492.
Bordat, Andre Jules Edmond, 3,669,589.
Bourquardez, Gaston; and Coffy, Rene Louis, 3,669,566.
Dubernet, Robert; and Sabatie, Michele, 3,676,576.
Gozlan, Albert, 3,660,982.
Moline, Augustin, 3,689,920.
- Mouille, Rene Louis, 3,679,322.
Violleau, Andre; and Coffy, Rene Louis, 3,693,317.
- Societe Nouvelle de Roulements: *See—*
Beauchet, Jean, 3,664,067.
Bourgeois, Claude Raymond, 3,639,016.
Feuillat, Pierre; and Lyard, Joseph, 3,644,006.
- Societe Nouvelle de Ateliers de Venissieux: *See—*
Dousset, Remy, 3,680,728.
- Societe Nouvelle Radial: *See—*
Glaz, Michael, 3,683,478.
- Societe Nouvelle Spidem: *See—*
Diolot, Lucien, 3,673,843.
Diolot, Lucien, 3,683,663.
Petit, Robert, 3,650,316.
Petit, Robert, 3,651,674.
Petit, Robert, 3,667,537.
- Societe Novacel: *See—*
Lachiche, Julien Henri, 3,682,578.
- Societe ORSYMONDE: *See—*
Lafon, Louis, 3,686,319.
- Societe Parisienne des Anciens Etablissements Barbier, Benard & Turenne: *See—*
Benard, Christian Louis Georges, 3,675,024.
- Societe Pour Le Developpement de la Recherche Appliquee: *See—*
Combes, Robert P., 3,704,855.
- Societe pour l'Equippement des Industries Chimiques Speichim: *See—*
Bardot, Paul, 3,660,908.
Maurice, Guy; and Jullien, Yves, 3,696,832.
- Societe Rhodiacta: *See—*
Allard, Pierre, 3,642,715.
Allard, Pierre; and Dumas, Victor, 3,687,776.
Blanc, Charles; and Joly, Jean, 3,703,754.
Bolliaud, Robert; and Saligny, Claude, 3,689,344.
Bolliaud, Robert, 3,696,185.
Bonnard, Lucien; Pich, Rene; and Palsky, Alain, 3,663,509.
Boyer, Jacques, 3,640,060.
Bozano, Michel, 3,683,610.
Buisson, Francois; and Gresteau, Jean Paul, 3,673,160.
Buzano, Michel, 3,678,549.
Buzano, Michel, 3,683,611.
Galin, Jean Claude, 3,658,940.
Gaudard, Yves, 3,670,506.
Grellier, Rene; and Guyot, Claude, 3,664,916.
Grellier, Rene; and Guyot, Claude, 3,664,917.
Grosjean, Pierre, 3,641,198.
Grosjean, Pierre; and Palsky, Alain, 3,646,157.
Jacquinet, Jean-Louis, 3,642,420.
Juppert, Paul, 3,683,732.
Juppert, Paul, 3,684,143.
Lamure, Bernard, 3,637,739.
Lamure, Bernard, 3,646,003.
Lefrancois, Emile, 3,684,564.
Michel, Buzano, 3,680,301.
Michel, Buzano, 3,691,748.
Ohayon, Gabriel, 3,665,566.
Pich, Rene; and Vaginay, Yves, 3,692,744.
Rajon, Andre, 3,655,326.
Sambeth, Joerg; and Grundschober, Friedrich, 3,642,712.
Sambeth, Joerg; and Grundschober, Friedrich, 3,691,195.
Stuchlik, Rene, 3,634,576.
- Societe Rhodiacta-D.A.P.I.D.: *See—*
Bolliaud, Robert; and Saligny, Claude, 3,677,855.
- Societe Sapchim-Fournier-Cimag: *See—*
Boussely, Jean, 3,691,219.
- Societe Stephanoise de Constructions Mecanique: *See—*
Fevre, Charles M., 3,693,337.
- Societe Sucriere de l'Atlantique (Engineering): *See—*
Barre, Marcel Jean Charles, 3,632,445.
- Societe Suisse pour l'Industrie Horlogere S.A.: *See—*
Dome, Peter, 3,659,165.
Dome, Peter, 3,665,697.
Dome, Peter, 3,704,583.
Luscher, Jakob, 3,645,088.
- Societe Technique de Pulverisation: *See—*
Boris, Michel, 3,680,790.
- Societe Technique et Commercial d'Installations Industrielles "Lu-
ceat": *See—*
Baudras, Andre, 3,705,610.
- Societe Technique pour l'Utilisation de la Precontrainte: *See—*
Laurent, Michel, 3,659,321.
- Societe Trefimetaux G.P.: *See—*
Frenkel, Jean-Mathieu; Logerot, Jean-Marie; Petrequin, Pierre; Syre, Robert; and Weisz, Michel, 3,685,988.
- Societe TUNZINI AMELIORAIR: *See—*
Gomarin, Claude; and Vidal, Jean, 3,682,133.
- Societe Verdol S.A.: *See—*
Frappe, Pierre, 3,705,292.
- Societe Veneries Industrielle Reunies du Loing: *See—*
Nick, Didier P., 3,692,338.
- Societe Wendell-Sideler, Societe Anonyme: *See—*
Brulhet, Paul, 3,638,929.

- Societe Etablissements Davey Bickford Smith & Cie: *See—*
Moreau, Andre Jules Pierre, 3,675,574.
- Sodano, Charles S.: *See—*
Axelrod, Michael; Marsh, William S.; Rao, Koppaka V.; and Sodano, Charles S., 3,644,617.
- Sodd, Vincent J.: *See—*
Blue, James W.; Smith, Wayne R.; and Sodd, Vincent J., 3,694,313.
- Soden, George B. Star wheel operating mechanism. 3,700,163, 10-24-72, Cl. 235-91.00m.
- Soden, Ralph Robert: *See—*
Greig, William John; and Soden, Ralph Robert, 3,668,484.
- Soderberg, Curt A.: *See—*
Muller, John Thomas; Scull, William L.; Cooper, James H.; and Soderberg, Curt A., 3,642,021.
- Sodergard, Bengt Martin, to Allmanna Svenska Elektriska Aktiebolaget. Guide tube for a control rod in a nuclear reactor. 3,650,895, 3-21-72, Cl. 176-44.
- Soderkvist, Lars O. A.: *See—*
Jidling, Kjell Esbjorn; and Soderkvist, Lars O. A., 3,646,960.
- Soderquist, Frederick J.; Kehde, Howard; and Martz, Lyle E., to Dow Chemical Company, The. Electrical resistance heated reactors and dehydrogenation of alkyl benzenes. 3,652,699, 3-28-72, Cl. 260-669.
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Mougin, George, 3,678,638.
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Stepanov, Gennady Arkadievich; Tsailingold, Anatoly Lvovich; Pilipenko, Fedor Semenovich; Sodolev, Valerian Mikhailovich; Borekov, Georgy Konstantinovich; Buyanov, Roman Alexeevich; and Venyaminov, Sergei Alexeevich, 3,678,124.
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- Soehner, Gerhard; and Hoehne, Gerd, to Bosch, Robert, G.m.b.H. Electromechanical transducer assembly. 3,648,155, 3-7-72, Cl. 323-94.
- Soehngen, John W., to Celanese Corporation. Method of producing spray spun nonwoven sheets. 3,676,239, 7-11-72, Cl. 156-16.00f.
- Soehngen, John William; Wagner, William Sherwood; Jamison, Saunders Eliot; and Canfield, Dale Kelley. Process of making tobacco smoke filters from extruded polymer and binder. 3,704,192, 11-28-72, Cl. 156-167.000.
- Soellner, Arthur M.; Sprouse, James F.; and Raju, Tripunithura A., to Avco Corporation. Electron emitter comprising metal oxide-metal contact interface and method for making the same. 3,663,857, 5-16-72, Cl. 313-339.000.
- Soenksen, Uwe: *See—*
Endres, Horst; Fikentscher, Rolf; Maurer, Walter; Scharf, Emil; and Soenksen, Uwe, 3,642,572.
- Soethje, Guenter, to Rehau Plastiks of Canada Limited. Device for providing hollow plastic bodies, and especially plastic pipes, with a reinforced sleeve-end provided with a bead. 3,706,519, 12-19-72, Cl. 425-389.000.
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- Sofia, George V. Electrically heated scraping tool. 3,673,383, 6-27-72, Cl. 219-227.000.
- Sofield, Howard S. Adjustable string peep. 3,703,770, 11-28-72, Cl. 33-265.000.
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Sorensen, Bent; and Hogfeldt, Frank, 3,662,169.
- Softky, Sheldon D.: *See—*
Herte, Lawrence; Softky, Sheldon D.; and Schoenberger, Nicholas D., 3,649,502.
- Soga, Setsuo: *See—*
Ohta, Wasaburo; and Soga, Setsuo, 3,697,172.
- Sogabe, Ichita: *See—*
Okada, Masashi; and Sogabe, Ichita, 3,695,381.
- Sogawa Machineries & Supplies: *See—*
Ishijima, Yoshihiro, 3,660,998.
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Watanabe, Shigeo; Sogi, Toshiyuki; and Mukai, Tsuneo, 3,678,982.
- Sognefest, Peter W.; and Estes, Bay E., III, to Essex International Inc. Vehicular plex-path circumferential control and distribution system. 3,648,057, 3-7-72, Cl. 307-10.
- Sogner, Dominik, to Chemiefaser Lenzing Aktiengesellschaft. Measuring installation. 3,701,281, 10-31-72, Cl. 73-351.000.
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- Sohlemann, Just; and Muller, Gerhard, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung. Extrusion press with a hydro-mechanical rotary drive for the working spindle. 3,681,961, 8-8-72, Cl. 72-82.000.
- Sohm, Jean-Claude: *See—*
Caiola, Amedee Jean-Claude; Guy, Henri Robert; and Sohm, Jean-Claude, 3,658,593.
Dalard, Francis Jean; Augustinsky, Jan Witold; and Sohm, Jean-Claude, 3,679,488.
- Sohma, Kikuya: *See—*
Muroga, Ko; Okuda, Jiro; Shimasaki, Nobuhiko; Terashima, Toshio; Maruyama, Yasushi; Kaneyasu, Hiroshi; Sohma, Kikuya; and Lovell, Clarence A., 3,649,767.
- Sohn, Hermann, KG Maschinenfabrik: *See—*
Sohn, Wolfgang; and Wicher, Hans, 3,648,986.
- Sohn, Inc.: *See—*
Biehl, Roy J., 3,645,550.
- Sohn, Jorg Alfred, to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic shutter with an electronic timing device. 3,645,190, 2-29-72, Cl. 95-53.
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- Sohne and Ernest Beckert Nadelfabrik Commandit-Gesellschaft: *See—*
Berentzen, Harido, 3,699,784.
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Bodig, Bernd; Sohner, Gerhard; and Strelow, Gert, 3,703,889.
Issler, Jorg; Roth, Helmut; and Sohner, Gerhard, 3,692,009.
Roth, Helmut; Sohner, Gerhard; Hohne, Gerd; and Issler, Jorg, 3,651,793.
- Sohns, Carl B.: *See—*
Rothweiler, Richard C.; Sohns, Carl B.; and Washburn, John A., 3,666,900.
- Sohr, Hans-Ulrich. Sliding clasp fastener. 3,665,879, 5-30-72, Cl. 112-265.
- Soichet, Samuel. Intra uterine device and injector thereof. 3,678,927, 7-25-72, Cl. 128-130.000.
- Soifer, Martin T.: *See—*
Zaid, Melvin; Soifer, Martin T.; Darigo, Julius; and Robinson, Russell S., 3,680,485.
- Soignet, Donald M.: *See—*
Berni, Ralph J.; Benerito, Ruth R.; McKelvey, John B.; Ward, Truman L.; and Soignet, Donald M., 3,644,082.
- Soil Sampling Service, Inc.: *See—*
Sweeney, Gerald T.; and Erdman, Oliver E., 3,665,717.
- Soileau, Hosea J. Water level control device. 3,701,260, 10-31-72, Cl. 61-12.000.
- Soini, Erkki Juhani, to Wallac Oy. Identifying device for specimen containers containing radioactive substances. 3,662,706, 5-16-72, Cl. 116-114.000.
- Soininen, Mauri Aatos: *See—*
Berg, Nils-Christian; and Soininen, Mauri Aatos, 3,668,787.
- Soja, Joseph: *See—*
Korb, Lawrence J.; and Soja, Joseph, 3,704,366.
- Sokalski, Stanley M.: *See—*
Schlossberg, Louis; and Sokalski, Stanley M., 3,644,152.
- Sokhin, Sergei Mikhailovich: *See—*
Nikitin, Jury Ivanovich; Sokhin, Sergei Mikhailovich; and Pogorely, Boris Vakulovich, 3,654,153.
- Sokirko, Vasily Andreevich: *See—*
Skulsky, Jury Valentinovich; Boretsky, Vasily Grigorievich; Sakharov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievich; Schukin, Pavel Ivanovich; Daniliv, Ivan Petrovich; Zelensky, Vladimir Filippovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgamovich; and Sokirko, Vasily Andreevich, 3,657,962.
- Sokol David G.: *See—*
Findeisen, Heinz H.; Kallmeyer, James D.; Sokol David G.; Stein, James H.; Thomas, Thomas R.; and Bowers, Jack R., 3,676,854.
- Sokol, Kurt Rudolf. Device for measuring blood sedimentation rate. 3,660,037, 5-2-72, Cl. 23-253.
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- Sokolov, David A., to Xerox Corporation. Lithographic inking apparatus. 3,690,252, 9-12-72, Cl. 101-147.000.

- Sokolov, Evgeny Vyacheslavovich; Yashkin, Eduard Petrovich; Sysoev, Vadim Ivanovich; Kozhevnikov, Rady Savvich; Chabanov, Alim Ivanovich; Shinkarenko, Mikhail Ivanovich; Grinchuk, Petr Stepanovich; Fomin, Georgy Georgievich; and Rusaev, Vladimir Ivanovich. Device for automatic thickness control of rolled strips. 3,686,907, 8-29-72, Cl. 72-6.000.
- Sokolov, Georgy Petrovich: *See—*
Giller, Solomon Aronovich; Sokolov, Georgy Petrovich; Kimenis, Agis Adolfovich; and Klusha, Via Ekabovna, 3,661,929.
- Sokolov, Leonid Alexandrovich: *See—*
Manokhin, Anatoly Ivanovich; and Sokolov, Leonid Alexandrovich, 3,672,439.
- Sokolov, Vladimir Leonidovich: *See—*
Timofeev, Mikhail Mikhailovich; Sokolov, Vladimir Leonidovich; German, Samuil Iosifovich; Levenberg, Ninel Efimovna; and Popov, Nikolai Ivanovich, 3,644,144.
- Sokolovsky, Oleg Petrovich: *See—*
Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Gel-fenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Polyakov, Boris Nikolaevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich, 3,688,833.
- Sokolow, Leonard L., to Consolidated Film Industries. Print color and intensity correction method. 3,702,733, 11-14-72, Cl. 355-77.000.
- Sokolowski, Robert C., to Kimberly-Clark Corporation. High temperature and pressure bonding of urethane foam. 3,677,858, 7-18-72, Cl. 156-219.000.
- Sola Basic Industries, Inc.: *See—*
Elkow, Steven A.; and Van Beek, Kenneth D., 3,658,373.
Elkow, Steven A., 3,680,848.
Genrich, Kurt; and Scott, Gerald L., 3,633,895.
Genrich, Kurt, 3,643,678.
Genrich, Kurt, 3,684,263.
Holmquest, John C., 3,681,678.
Kroeger, James K., 3,686,440.
McKenna, John Patrick; Keeling, Richard J.; and Lauersdorf, Duane H., 3,688,007.
Rhyne, Earl C., Jr., 3,671,863.
Seelandt, Karl H.; and Wentworth, Hobart L., 3,705,711.
von Arx, Henry R.; and Zueger, Karl J., 3,691,707.
- Solanka, Joseph, to Wagner Brothers Containers, Inc. Fully collapsible corrugated box and blank therefor. 3,638,852, 2-1-72, Cl. 229-41.
- Solar, Carl M.: *See—*
Haselwood, Donald E.; and Solar, Carl M., 3,651,471.
- Solar Industries, Inc.: *See—*
Ruhland, Felix H.; and Schmidt, Raymond H., 3,683,991.
- Solarek, Thomas W., to Xerox Corporation. Materials for fibrous development and cleaning member. 3,692,402, 9-19-72, Cl. 355-3.000.
- Solari & C./Udine S.p.A.: *See—*
Solari, Fermo, 3,681,913.
- Solartron Electronic Group Limited, The: *See—*
Abbotts, William Edward, 3,648,512.
Agar, Joram, 3,672,220.
Conrad, John Harold; Reynolds, Anthony Edward St. Aubyn; and Gadd, Edward George, 3,676,707.
Krebs, Peter Eric, 3,673,390.
Ley, Anthony John, 3,655,956.
Ley, Anthony John, 3,700,865.
Metcalfe, Eric, 3,659,086.
Ormiston, Peter Thomas, 3,701,206.
Trasler, Paul Vincent Marie Brigstock, 3,699,460.
Wheable, Desmond, 3,665,457.
Wheable, Desmond, 3,678,506.
Wold, Ivar, 3,646,334.
Wold, Ivar, 3,648,040.
- Solau, Leon: *See—*
Vergne, Jean; Solaux, Leon; Robinet, Jean-Claude; and Lacroix, Philippe, 3,676,390.
- Solbeck, Erik. Method and apparatus for manufacturing net material and other non-woven fabrics. 3,663,331, 5-16-72, Cl. 156-181.000.
- Solberg, Olav: *See—*
Bognaes, Ragnar; and Solberg, Olav, 3,677,021.
Bognaes, Ragnar; and Solberg, Olav, 3,680,323.
- Solbern Corporation: *See—*
Eisenberg, Bernard C., 3,662,518.
Eisenberg, Bernard C., 3,696,581.
- Solbrig, Charles W., to Institute of Gas Technology. Radiation regenerative burner. 3,684,260, 8-15-72, Cl. 263-19.00r.
- Solco Basal AG: *See—*
Buchmann, Paul; and Beringer, Monique, 3,672,509.
Von Castelmur, Hans, 3,681,383.
- Solcova, Jitka: *See—*
Kralicek, Jaroslav; Kubanek, Vladimir; Solcova, Jitka; and Kon-delikova, Jaroslava, 3,674,751.
- Soldatos, Anthony C., to Union Carbide Corporation. Phenolic resin compositions modified with an epsilon caprolactone. 3,639,658, 2-1-72, Cl. 260-59.
- Soldatos, Anthony C., to Union Carbide Corporation. Phenolic resin compositions modified with Group II metal hydroxides or oxides and a caprolactone. 3,640,958, 2-8-72, Cl. 260-59.
- Soldatos, Anthony C.; and Burhans, Allison S., to Union Carbide Corporation. Curable polyepoxide compositions. 3,686,359, 8-22-72, Cl. 260-836.000.
- Soldner, Richard Ernest, to Siemens Aktiengesellschaft. Ultrasonic image producing instrument. 3,693,414, 9-26-72, Cl. 73-67.900.
- Sole, Lloyd H.: *See—*
Casey, Ernest D.; and Sole, Lloyd H., 3,673,629.
- Sole, Ramon, to Fischer, George, Ltd. Thread tensioning and balloon control means for the unwinding of yarn from supply packages on weaving and other textile machines. 3,632,062, 1-4-72, Cl. 242-147.
- Sole, Ramon; and Othmar, Bruhwiler, to Fischer, Georg, A.G. Carriers for filling insertion in a weaving machine. 3,638,686, 2-1-72, Cl. 139-127.
- Solheim, Karsten. Correlated golf club set. 3,655,188, 4-11-72, Cl. 273-77.
- Soli, Giorgio, to United States of America, Navy. Bacterial lamp. 3,674,648, 7-4-72, Cl. 195-127.000.
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Newmeyer, Reed A., 3,691,403.
- Solid State Technology, Inc.: *See—*
Willis, John George, 3,633,106.
- Solidyne Corporation: *See—*
So, Richard T.; and Mueller, Reinhold, 3,706,966.
- Solmene, Americo J. Puzzle game board. 3,633,913, 1-11-72, Cl. 273-132.
- Solitanner, Kaarlo H.: *See—*
Burakoff, Valdemar; Krakstrom, Paul; Sinervo, Into; and Solitanner, Kaarlo H., 3,636,738.
- Solitanner, Kaarlo Henrik: *See—*
Enne, Paavo; Gahmberg, Gustaf; Pousar, Kurt; and Solitanner, Kaarlo Henrik, 3,636,741.
- Solitron Devices, Inc.: *See—*
Edwards, Lon E., 3,675,148.
- Solka, James L.; Reichelderfer, Charles A.; Dieckmann, John J.; and Castello, Anthony M., to Dunham-Bush, Inc. Compact forced warm air furnace. 3,662,738, 5-16-72, Cl. 126-110.00r.
- Sollami, Blase J.: *See—*
Kammermeyer, Karl; and Sollami, Blase J., 3,665,678.
- Sollars, Richard L.: *See—*
Sprando, Anthony E.; and Sollars, Richard L., 3,694,912.
- Soller, Henry W.: *See—*
Talbot, Albert M.; and Soller, Henry W., 3,662,810.
- Solli, Arne. Welding transformers. 3,697,912, 10-10-72, Cl. 336-133.000.
- Sollich, Helmut, to Sollich oHG Industriestrasse. Apparatus for processing and conveyance of sticky materials. 3,692,451, 9-19-72, Cl. 425-223.000.
- Sollich oHG Industriestrasse: *See—*
Sollich, Helmut, 3,692,451.
- Sollinger, Eugen; and Gerhardsberg, Ernst, to Hurth, Carl, Maschinen- und Zahnradfabrik. Clamping means for machine tools, in particular cutters. 3,648,563, 3-14-72, Cl. 90-11.
- Sollman, George H.: *See—*
Agrawala, Ashok K.; Dixon, Samuel J.; and Sollman, George H., 3,689,903.
- Sollman, George H.; and Dixon, Samuel J., to Honeywell Inc. Four phase encoder system for three frequency modulation. 3,671,960, 6-20-72, Cl. 340-347.0dd.
- Sollman, George H., to Honeywell Inc. Two phase encoder system for three frequency modulation. 3,678,503, 7-18-72, Cl. 340-347.0dd.
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- Sollogoub, Nicolas; and Bloc, Jean A., to Agence Katimavik Inc. Display system for moving subway trains. 3,704,064, 11-28-72, Cl. 352-100.000.
- Sollott, Gilbert P.; and Peterson, William R., Jr., to United States of America, Army. Explosive pyrotechnic complexes of ferrocene and inorganic nitrates. 3,673,015, 6-27-72, Cl. 149-29.000.
- Solntsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balaklo, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grgorievich; and Lamin, Vladimir Ivanovich. Wheel excavators for digging channels and trenches having variably angled slopes. 3,681,863, 8-8-72, Cl. 37-97.000.
- Solo, Emilio J.: *See—*

- Brignac, Edmond P.; Smith, Billy E.; Smith, Wallace W.; and Solo, Emilio J., 3,651,201.
- Solo Kleinmotoren GmbH: *See—*
Emmerich, Heinz; and Bulk, Eggert, 3,680,608.
- Solo Products Corporation: *See—*
Braverman, Leslie, 3,696,937.
- Solodar, Warren E., to Polaroid Corporation. 2-(Omega-hydroquinonyl-alkyl)-anthraquinones. 3,691,210, 9-12-72, Cl. 260-380.000.
- Solomito, Joseph T. Stone slotting machine. 3,675,972, 7-11-72, Cl. 299-41.000.
- Solomka, Monroe M.; and Montoya, Jose M. Genua, to Dow-Unquinesa S.A. Process for the manufacture of titanium dioxide pigment having high specific resistance. 3,686,010, 8-22-72, Cl. 106-300.000.
- Solomka, Monroe M.; and Fernandez, Gabriel Puente, to Dow-Unquinesa S.A. Process of preparing titanium pigment of improved resistance to photo-reduction. 3,695,907, 10-3-72, Cl. 106-300.000.
- Solomka, Monroe M.; and Aguirre, Enrique Renteria, to Dow-Unquinesa S.A. Automated process for the hydrolysis of titanium sulfate solutions. 3,706,829, 12-19-72, Cl. 423-615.000.
- Solomon, Arich; and Davidovitch, Jecheskel, to British & Foreign Tobacco Co., Ltd., The. Transmission mechanism. 3,633,938, 1-11-72, Cl. 280-255.
- Solomon, Irvine J.; Keith, James N.; and Kacmarek, Andrew J., to United States of America, Air Force. Process for preparing compounds containing the OOF group. 3,634,483, 1-11-72, Cl. 260-453.
- Solomon, Jack. Educational game apparatus. 3,633,914, 1-11-72, Cl. 273-135.
- Solomon, Jack M.: *See—*
Bluestein, Bernard R.; and Solomon, Jack M., 3,647,795.
Chisholm, Daniel R.; Solomon, Jack M.; and Isbitsky, Bernard, 3,641,022.
- Solomon, James E.: *See—*
Davis, Walter Richard; and Solomon, James E., 3,668,440.
- Solomon, Marwick H.: *See—*
Ling, Ting H.; and Solomon, Marwick H., 3,646,248.
- Solomon, Milton, to Circle Engineering Co., Inc. Small vehicle wheel. 3,640,584, 2-8-72, Cl. 301-63.
- Solomon, Nathan L. Hair curler. 3,631,868, 1-4-72, Cl. 132-39.
- Solomon, Nathan L. Cassette cover. 3,638,788, 2-1-72, Cl. 206-52.
- Solomon, Nathan L. Magnetic tape spool and cartridge. 3,675,867, 7-11-72, Cl. 242-55.19a.
- Solomon, Nathan L. Hair curler. 3,702,119, 11-7-72, Cl. 132-41.00b.
- Solomon, Paul W., to Phillips Petroleum Company. Hydroformylation process and catalyst. 3,636,159, 1-18-72, Cl. 260-604.
- Solomon, Raymond, to Fairchild Camera and Instrument Corporation. Push-pull structure for solution epitaxial growth of III-V compounds. 3,664,294, 5-23-72, Cl. 118-7.000.
- Solomonov, Nikolai Nikolaevich; Ishanin, Vladimir Pavlovich; and Apsalons, Talvalds-Olavs Arnoldovich. Device for securing a valve in the neck of an aerosol vessel. 3,668,824, 6-13-72, Cl. 53-330.000.
- Solori, Fermo, to Solari & C./Udine S.p.A. Carry-over mechanism with variable ratios. 3,681,913, 8-8-72, Cl. 58-4.000.
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- Solovieff, Paul G.: *See—*
Solovieff, George B.; Solovieff, Paul G.; and Solovieff, Stephen W., 3,702,549.
- Solovieff, Stephen W.: *See—*
Solovieff, George B.; Solovieff, Paul G.; and Solovieff, Stephen W., 3,702,549.
- Soloviev, Boris Fedorovich: *See—*
Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leenieux, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreevich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.
- Soloviev, Evgeny Vladimirovich: *See—*
Nametkin, Nikolai Sergeevich; Durgarian, Sergei Garievich; Soloviev, Evgeny Vladimirovich; and Piryatinsky, Viktor Maxovich, 3,637,899.
- Soloviev, Jury Filippovich: *See—*
Silvestrov, Sergei Nikolaevich; Sinichkin, Moisei Mikhailovich; Shirokov, Grigory Ivanovich; Soloviev, Jury Filippovich; Silvestrov, Nikolai Demyanovich; and Amusin, Boris Zinovievich, 3,675,433.
- Soloviev, Petr Ivanovich: *See—*
Lakiza, Rostislav Ivanovich; Soloviev, Petr Ivanovich; Dukov, Vasily Maximovich; and Baron, Grigory Rakhmielevich, 3,662,991.
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Elpern, Bill; Shapiro, Harris J.; and Soloway, Harold, 3,651,134.
Elpern, Bill; Shapiro, Harris J.; Shroff, James R.; and Soloway, Harold, 3,673,238.
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Wyatt, James Andrew Stewart; Chapman, Clifford Victor Gascoyne; Solt, George Stefan; and Mullet, Sidney George, 3,679,059.
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- Solt, Paul Ervin, to Fuller Company. Pneumatic conveying apparatus. 3,632,175, 1-4-72, Cl. 302-36.
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Weller, Carl E.; and Solt, Wilbur A., 3,662,152.
- Soltau, John Peter; and Kelly, Robert Edward. Fuel control apparatus. 3,650,257, 3-21-72, Cl. 123-139.
- Soltronic, Inc.: *See—*
Watson, Fred A., 3,681,611.
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- Solum, James R., to B&W Incorporated. Method for compactly placing material in a well. 3,661,209, 5-9-72, Cl. 166-278.
- Solvay & Cie: *See—*
Baekelmans, Paul; and Leblon, Emile, 3,642,760.
Bequet, Jean Francois; Van Asbroeck, Roger; and Du Bois, Paul, 3,661,694.
Boel, Michel; and Dechenne, Roger, 3,676,413.
Delboulle, Andre; and Derroitte, Jean-Louis, 3,658,722.
Delboulle, Andre; Gobillon, Yves; and Stevens, Jacques, 3,663,660.
Delboulle, Andre, 3,701,766.
Delebarre, Bernard, 3,657,406.
Golstein, Jean, 3,642,745.
Golstein, Jean Pierre, 3,692,718.
Mathieu, Alexis; and Barberot, Claude, 3,644,578.
Mathieu, Alexis; and Barberot, Claude, 3,705,210.
Mathis, Pierre, 3,653,818.
Mathis, Pierre, 3,653,825.
Mathis, Pierre, 3,671,188.
Mulders, Julien; and Godfrine, Pierre, 3,652,693.
Mulders, Julien, 3,666,753.
Sluse, Guy; and Joannes, Gustave, 3,668,005.
- Soma, Mitsuyuji: *See—*
Tamaru, Kenzi; Onishi, Takaharu; Soma, Mitsuyuji; and Ichikawa, Masaru, 3,658,721.
- Soma, Mitsuyuki: *See—*
Tamaru, Kenzi; Onishi, Takaharu; and Soma, Mitsuyuki, 3,660,028.
- Soma, Nobuo: *See—*
Kishida, Yukichi; Soma, Nobuo; Nakazawa, Junichi; Sato, Yoshio; Matsuda, Hidebumi; Terada, Atsuke; Watanabe, Taiichiro; Sugimura, Yukio; Miyamura, Toshihide; Kaneko, Masanao; and Watatani, Mitsuo, 3,704,294.
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- Somann, Gert, to Ferplas Industries Limited. Self-locking strap buckle. 3,663,995, 5-23-72, Cl. 24-74.000.
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Andoniev, Sergei Mikhailovich; Gerber, Leonid Moiseevich; Kasyanov, Grigory Ivanovich; Kudinov, Gennady Alexandrovich; Kutsykovich, Dorina Borisovna; Nissenbaum, Tamara Izovna; Raikovskiy, Jury Borisovich; Somchenko, Mikhail; and Filipiev, Oleg, 3,693,708.
- Somchenko, Mikhail Semenovich: *See—*
Andoniev, Sergei Mikhailovich; Kutsykovich, Dorina Borisovna; Gerber, Leonid Moiseevich; Kudinov, Gennady Alexandrovich; Kasyanov, Grigory Ivanovich; Nissenbaum, Tamara Izovna; Raikovskiy, Jury Borisovich; Somchenko, Mikhail Semenovich; and Filipiev, Oleg Vadimirovich, 3,692,103.
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- Somers, Allen E.: *See—*
Paraskos, John A.; and Somers, Allen E., 3,706,657.
- Somers, Peter John: *See—*
Barker, Sidney Alan; Somers, Peter John; and Epton, Roger, 3,702,804.
- Somers, Robert W.: *See—*
Melcher, Ronald E.; and Somers, Robert W., 3,692,550.
- Somers, William P., to Veeder Industries Inc. Post pay control system. 3,662,157, 5-9-72, Cl. 235-92.
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- Somerset, Sherman J., to International Telephone and Telegraph Corporation. Coaxial connector. 3,701,086, 10-24-72, Cl. 339-177,00r.
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- Somerville Industries Limited: *See—*
Dewhurst, Ernest James, 3,696,990.
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- Somerville, Robert L., to Singmaster & Bryer. Process for drying hydrophilic ores and recovering sulfur therefrom. 3,661,535, 5-9-72, Cl. 23-306.
- Somet Societa Meccanica Tessile S.p.A.: *See—*
Parolini, Andrea, 3,688,807.
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Raffaeli, Corrado; and Somigli, Guiliana, 3,668,343.
- Raffaeli, Corrado; and Somigli, Guiliana, 3,660,932.
- Somjak, John R.: *See—*
Buchesky, David M.; and Somjak, John R., 3,685,812.
- Somlo, Tibor; and Orban, Ivan, to Ciba-Geigy AG. Process for the production of 2,5-diamino-3, 6-dihalogeno-p-benzoquinones. 3,681,403, 8-1-72, Cl. 260-396,00r.
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- Somma, Herman R.: *See—*
Somma, Henry J.; and Somma, Herman R., 3,636,805.
- Somma Tool Company: *See—*
Somma, Henry J.; and Somma, Herman R., 3,636,805.
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Maca, Paul Donald; and Schumacher, Warren C., 3,653,108.
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Sommer, Gordon M., 3,680,666.
- Sommer, Gordon M., 3,696,898.
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- Sommer, Gunther Max: *See—*
Ausnit, Steven; Sommer, Gunther Max; and Haberle, Helmut Z., 3,650,009.
- Sommer, Hans: *See—*
Schuierer, Erich; Renz, Werner; and Sommer, Hans, 3,679,634.
- Sommer, Harald, to Braunschweigische Maschinenbauanstalt. Auxiliary device for centering of the centrifugal drum of pendulum type hydro extractors during clearing with a high number of revolutions. 3,655,124, 4-11-72, Cl. 233-46.
- Sommer, Harry J.: *See—*
Evans, Charles C.; and Sommer, Harry J., 3,664,856.
- Sommer, Heinrich: *See—*
Peuker, Kurt; and Sommer, Heinrich, 3,640,376.
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- Sommer, Lothar: *See—*
Linz, Georg; and Sommer, Lothar, 3,678,565.
- Sommer, Reinhold, to Muller, Hans. Ski safety binding. 3,687,471, 8-29-72, Cl. 280-11,35t.
- Sommer, Ronald George: *See—*
Borchert, Peter Jochen; Slager, James Edward; Sommer, Ronald George; and Zienty, Mitchell Frank, 3,639,646.
- Borchert, Peter Jochen; Slager, James Edward; Sommer, Ronald George; and Zienty, Mitchell Frank, 3,653,931.
- Sommer, Siegfried: *See—*
Schott, Herbert; Herwig, Walter; and Sommer, Siegfried, 3,687,924.
- Sommer, Warren T. Speed reducer and motion translator. 3,686,962, 8-29-72, Cl. 74-25,000.
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- Sommeria, Marcel R., to Hyper-Loop, Inc. Tracer control system. 3,667,023, 5-30-72, Cl. 318-578,000.
- Sommerkorn, Gernot: *See—*
Bottcher, Wolfgang; Kopineck, Hermann-Josef; Schlusnus, Karl-Heinz; and Sommerkorn, Gernot, 3,685,348.
- Sommermeyer, Heinrich, to Sommermeyer, Heinrich, KG. Filter and housing for the same. 3,690,461, 9-12-72, Cl. 210-222,000.
- Sommermeyer, Heinrich, KG: *See—*
Sommermeyer, Heinrich, 3,690,461.
- Sommers, Earl Eugene: *See—*
Johnston, Thomas Emmett; and Sommers, Earl Eugene, 3,691,078.
- Sommers, Hans: *See—*
Schmalfeld, Paul; Sommers, Hans; and Janssen, Heinrich, 3,655,518.
- Sommerville, James L.: *See—*
Hinchman, Gerald V.; Sommerville, James L.; and Schmitz, William D., 3,646,817.
- Somogyi, Agnes: *See—*
Dobo, Janos; Somogyi, Agnes; and Lakner, Endre, 3,677,967.
- Somos, Istvan: *See—*
Piccone, Dante E.; and Somos, Istvan, 3,662,250.
- Somov, Boris Stepanovich: *See—*
Efimov, Leonid Alexandrovich; Shtin, Lev Mikhailovich; Sinit-sky, Vladimir Mikhailovich; Khirdzhev, Sergei Grigorovich; Pylaikin, Petr Alexeevich; Satovskaya, Ljudmila Sergeevna; Grebnev, Nikolai Feodosovich; Rasseikin, Mikhail Grigorovich; Kalugin, Konsantin Yakovlevich; Somov, Boris Stepanovich; and Baranchikov, Vladimir Mikhailovich, 3,678,728.
- Somov, Vsevolod Sergeevich: *See—*
Chepigo, Sergei Vladimirovich; Belenky, Solomon Isosifovich; Somoy, Vsevolod Sergeevich; Voronkov, Vasily Gerasimovich; Belavsky, Mikhail Alexandrovich; Korotaev, Oleg Georgievich; Rodionova, Galina Sergeevna; Maximenko, Nikolai Spiridonovich; Glazman, Boris Aronovich; Belova, Larisa Alexandrovna; and Vorobiova, Galina Ivanovna, 3,654,084.
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- Sonar International, Inc., mesne: *See—*
Kurronen, George K., 3,645,282.
- Sondell Research & Development Co.: *See—*
Patterson, James A.; McMurray, Raymond C.; and Schwarzott, Carol J., 3,632,496.
- Patterson, James A., 3,683,307.
- Sonderegger, Hans Conrad: *See—*
Spescha, Gelli; Martini, Karlheinz; and Sonderegger, Hans Conrad, 3,640,130.
- Sonderegger, Hans Conrad. Temperature compensated piezoelectric accelerometer. 3,673,442, 6-27-72, Cl. 310-8,400.
- Sonderman, William G.: *See—*
Smith, Russell G.; Sonderman, William G.; and Templin, Paul D., 3,661,171.
- Sondhi, Man M., to Bell Telephone Laboratories, Incorporated. Reconstruction of object shape from sound diffraction pattern. 3,679,020, 7-25-72, Cl. 181-50r.
- Sone, Masao: *See—*
Shimoda, Keitaro; Tsutsui, Nobuhiro; Sekiguchi, Hideto; and Sone, Masao, 3,673,053.
- Sone, Sadaie: *See—*
Takanas, Haruo; Sone, Sadaie; and Eguchi, Isamu, 3,660,583.
- Sone, Yasuo: *See—*
Uchida, Shinzi; Nishizawa, Hiroshi; and Sone, Yasuo, 3,655,628.
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- Song, John S. Tamper-proof overcap for can. 3,684,124, 8-15-72, Cl. 220-27,000.
- Song, Jung Hoon: *See—*
Ladd, Fred; and Song, Jung Hoon, 3,705,762.
- Song, Wonjin: *See—*
Schorum, Stanley W.; and Song, Wonjin, 3,690,311.
- Songrand Corporation, The: *See—*
Talge, Henry J.; McNair, Samuel L.; and Litman, Marvin W., 3,654,428.
- Sonic Development Corporation of America: *See—*
Schurig, Robert E.; and Korn, Joseph, 3,677,525.
- Sonie Instruments, Incorporated: *See—*
Brecht, Kilian H., 3,688,565.
- Sonin, Anatoly Leonidovich: *See—*
Popov, Boris Vasilievich; Slonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Zhukov, Gennady Konstantinovich; and Zhokhova, Olga Samuilovna, 3,672,197.
- Zhukov, Gennady Konstantinovich; Krylov, Nikolai Ivanovich; Lebedev, Vyacheslav Ivanovich; Popov, Boris Vasilievich; Slonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Vasilenko, Sergei Isosifovich; Kondratiev, Valentin Vasilievich; and Krokhin, Neste Ivanovich, 3,633,397.
- Sonius, Wesley Allan. Headlights with safety relay control. 3,673,456, 6-27-72, Cl. 315-83,000.
- Sonix, Inc.: *See—*
Rauh, John H., 3,698,993.
- Sonjara, Boris: *See—*
Porter, Frank K., Jr.; and Sonjara, Boris, 3,706,865.
- Sonnabend, Lawrence F., to Dow Chemical Company, The. Cellulosic products treated with improved quaternary ammonium electroconductive additives from vinylaromatic polymers. 3,700,493, 10-24-72, Cl. 117-201,000.
- Sonnberger, Hanfried, to Rohde & Schwarz. High frequency switch. 3,686,455, 8-22-72, Cl. 200-153,00s.
- Sonne, Herbert: *See—*
Wiesner, Max; Sonne, Herbert; and Schmidt, Hans-Robert, 3,653,604.
- Sonnenfeld, Richard J.: *See—*
Trepka, William J.; and Sonnenfeld, Richard J., 3,640,988.
- Trepka, William J.; and Sonnenfeld, Richard J., 3,694,515.
- Zelinski, Robert P.; and Sonnenfeld, Richard J., 3,663,480.
- Sonnenfeld, Richard J., to Phillips Petroleum Company. Pour point depressant. 3,635,685, 1-18-72, Cl. 44-62.
- Sonnenmoser, Alois: *See—*
Bansal, Parma Nand; and Sonnenmoser, Alois, 3,656,281.
- Sonner, May B. Litter bag. 3,632,029, 1-4-72, Cl. 224-929.
- Sonnet Tool and Manufacturing Co.: *See—*
Sunderman, Elwin; and Hilliard, Merle, 3,664,677.
- Sonneville, Roger Paul, to Societe d'Etudes Ferroviaires. Elastically yieldable insulating rail fastening device. 3,688,984, 9-5-72, Cl. 238-349,000.
- Sonntag, Alois: *See—*
Borchert, Edgar; Frese, Werner; Pikorz, Wolfgang; and Sonntag, Alois, 3,634,739.
- Sonntag, Arch Christian; Klutcho, Sylvester; and Shavel, John, Jr., to Warner-Lambert Company. 1,2,3,4,4a,5,6,6a-Octahydrobenzo[3,2-c]indoles. 3,649,644, 3-14-72, Cl. 260-326.5.
- Sonntag, Manfred: *See—*
Ganter, Wolfgang; Assmus, Friedrich; and Sonntag, Manfred, 3,697,766.
- Sonntag, William B. Animal trap. 3,672,090, 6-27-72, Cl. 43-66,000.
- Sonobe, Kiyomi, to Iwaki Co., Ltd. Variable metering pump. 3,698,288, 10-17-72, Cl. 92-13,400.
- Sonoco Products Company: *See—*
Corning, Robert C., Jr., 3,695,971.
- Pinner, Champ D.; Sligh, Cecil E.; Diehl, James J.; and Garland, Wade H., Jr., 3,648,163.
- Reid, Edward S., 3,658,176.
- Witzig, Werner, 3,704,730.
- Sonoda, Minoru: *See—*
Sato, Akio; Sonoda, Minoru; Shiba, Keisuke; Hinata, Masanao; and Nozoe, Tetsuo, 3,687,674.
- Sonoda, Minoru; Yamamoto, Nobuo; and Mikawa, Akikazu, to Fuji Photo Film Co., Ltd. Silver halide emulsion containing 1,2-glycol as sensitizer and antifoggant. 3,650,759, 3-21-72, Cl. 96-107.
- Sonoda, Shigetada: *See—*
Kuwahara, Kenshi; Sonoda, Shigetada; and Ishii, Masahito, 3,705,137.
- Sonotone Corporation: *See—*
Vignini, Walter R., 3,637,969.
- Vignini, Walter R., 3,673,002.
- Sonoyama, Heikitsu: *See—*
Osaka, Yonosuke; Watanabe, Kinya; Tamura, Kohji; Sonoyama, Heikitsu; Matsuda, Satoru; Haruhana, Masao; and Matoba, Hideo, 3,689,370.
- Wada, Hiroyuki; and Sonoyama, Heikitsu, 3,676,491.
- Sonoyama, Yuzo: *See—*
Hozumi, Yukio; Sonoyama, Yuzo; and Omata, Masaru, 3,682,873.
- Sonsnowicz, Edward J.; and Willis, Frank M., to Du Pont de Nemours, E. I., and Company. Pressure and sound shield for blast excavation of tunnels and the like. 3,638,754, 2-1-72, Cl. 181-33.
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- Sony Corporation: *See—*
Ando, Tetsuo; and Yamazaki, Hiroshi, 3,694,704.
- Baba, Hideo; and Gando, Masayoshi, 3,681,146.
- Doi, Toshitada; and Akiba, Kosuke, 3,680,134.
- Dosen, Masasi; Kaneko, Kunio; and Watanabe, Naozo, 3,689,330.
- Esashi, Hanjiro; and Machida, Tetsuo, 3,633,837.
- Fuse, Yuzo, 3,639,796.
- Haneda, Yoshiaki, 3,659,218.
- Hosoya, Mitsuru; Sahara, Hiroshi; and Morio, Minoru, 3,638,064.
- Inaga, Katsu; and Miura, Yotaro, 3,688,055.
- Inaga, Katsu; and Miura, Yotaro, 3,702,383.
- Ishigaki, Yoshio; and Shinoda, Hajime, 3,660,679.
- Ishigaki, Yoshio; and Shinoda, Hajime, 3,688,129.
- Isono, Katsuo; and Okada, Hisao, 3,702,376.
- Kanamaru, Yuuichi, 3,660,615.
- Kawakami, Hiroshi, 3,672,684.
- Kawakami, Hirotake, 3,649,775.
- Kawasaki, Meiro; and Higuchi, Shigetaka, 3,702,270.
- Kihara, Nobutoshi, 3,678,215.
- Kihara, Nobutoshi, 3,678,217.
- Kihara, Nobutoshi; and Miura, Yotaro, 3,689,007.
- Kobayashi, Isamu, 3,648,128.
- Kobayashi, Isamu, 3,651,385.
- Kobayashi, Isamu, 3,681,668.
- Kobayashi, Isamu, 3,692,574.
- Kodama, Makoto; and Yamamoto, Harunori, 3,638,953.
- Kodera, Yoichi; Kitamura, Tomosaburo; and Sawaguchi, Etsuro, 3,632,443.
- Koguma, Kazumasa; Takeuchi, Hiroshi; and Kanamaru, Yuichi, 3,639,697.
- Kubota, Yasuharu; and Shiono, Takashi, 3,651,255.
- Kubota, Yasuharu, 3,655,909.
- Kubota, Yasuharu, 3,688,020.
- Kurokawa, Hiromichi, 3,678,184.
- Kurokawa, Hiromichi; and Kubota, Yasuharu, 3,688,023.
- Machida, Tetsuo, 3,676,810.
- Makino, Yoshimi; Higuchi, Shigetaka; Kamiya, Iwao; and Masuya, Yoshikazu, 3,654,163.
- Matsuhita, Takeshi; and Yagi, Hajime, 3,686,684.
- Miura, Yotaro; and Ito, Makoto, 3,678,214.
- Miura, Yotaro; and Asami, Shojiro, 3,688,059.
- Miyaoka, Senri, 3,651,359.
- Miyaoka, Senri, 3,652,896.
- Miyaoka, Senri, 3,678,329.
- Miyaoka, Senri, 3,696,261.
- Morio, Minoru, 3,639,685.
- Morio, Minoru; and Kimura, Hiroyuki, 3,699,240.
- Nagaki, Takehiro; and Yamamoto, Teruo, 3,705,396.
- Nakada, Yasuo; and Takita, Hideo, 3,679,933.
- Naruse, Ohsuke; Ashiya, Ryosuke; Nii, Takehiko; and Fuse, Yuzo, 3,705,322.
- Naruse, Ohsuke; Ashiya, Ryosuke; Nii, Takehiko; and Fuse, Yuzo, 3,686,525.
- Numakura, Toshihiko, 3,660,596.
- Numakura, Toshihiko, 3,702,374.
- Ohira, Shigemasa; Hanizawa, Hisoshi; and Narita, Hisaya, 3,660,727.
- Ohsawa, Mitsuo; and Mino, Shinziro, 3,665,320.
- Ohsawa, Mitsuo, 3,705,313.
- Okada, Hisao; and Morita, Koji, 3,705,363.
- Okada, Takashi, 3,649,747.
- Okada, Takashi, 3,651,247.
- Okada, Takashi, 3,678,185.
- Okada, Takashi, 3,705,260.
- Oosone, Koozo, 3,677,556.
- Sato, Seiji, 3,643,038.
- Sato, Seiji, 3,678,213.
- Sawai, Masahide, 3,651,369.
- Shimada, Satoshi, 3,668,466.
- Shinoda, Hajime; and Tsuchiya, Takao, 3,654,495.
- Suzuki, Tadao, 3,678,408.
- Suzuki, Tadao, 3,681,659.
- Tachikawa, Takuji; Ohgoshi, Akio; Yoshida, Susumu; Nakayama, Akira; and Ishii, Eiji, 3,638,063.
- Tokita, Tetsuo; Fuse, Yuzo; and Katagiri, Yoshiharu, 3,668,464.
- Tokumoto, Shin-ichi; and Tanaka, Eiji, 3,662,047.

- Uemura, Saburo; Fuse, Toyohiko; and Hashimoto, Yoshitaka, 3,639,698.
 Uemura, Saburo, 3,652,927.
 Uemura, Saburo, 3,653,012.
 Uemura, Saburo, 3,653,456.
 Uemura, Saburo; and Hashimoto, Yoshitaka, 3,654,397.
 Uemura, Saburo, 3,696,218.
 Utsunomiya, Kimitake; and Yasuda, Hitoshi, 3,688,156.
 Wakamiya, Kinji; and Kobayashi, Isamu, 3,694,276.
 Watanabe, Yoshihiko, 3,647,984.
 Yagi, Hajime, 3,663,873.
 Yoneya, Juho, 3,649,894.
 Yoshida, Susumu; Ohgoshi, Akio; Miyaoka, Senri; and Katagiri, Yoshiharu, 3,678,318.
 Soo, Peter H.: See—
 Totah, Raymond P.; Hawkins, Gordon L.; Soo, Peter H.; and Wolfe, George, Jr., 3,654,000.
 Soo, Shao L., to Caterpillar Tractor Company. Diffuser including vanless and vane sections. 3,658,437, 4-25-72, Cl. 415-181.000.
 Soodalter, Arnold. Sleeving apparatus. 3,657,861, 4-25-72, Cl. 53-197.
 Sooner Door Hardware Manufacturing Company: See—
 Schwarz, Charles A., 3,699,608.
 Soong, Pinnan. Preparation of bromelain from the pineapple stems. 3,699,001, 10-17-72, Cl. 195-66.00r.
 Soper, Quentin F., to Lilly, Eli, and Company. Method of controlling weeds pre-emergently. 3,632,397, 1-4-72, Cl. 71-92.
 Soper, Quentin Francis, to Lilly, Eli, and Company. 2-Piperidino-3-phenylquinoxaline compounds. 3,647,793, 3-7-72, Cl. 260-250.
 Sopin, Alexandr Alexandrovich: See—
 Menchikov, Leonid Petrovich; Kopylov, Kim Ivanovich; Okun, Evsei Lvovich; Smirnov, Vasily Mikhailovich; Gavrikov, Viktor Stepanovich; Fridman, Ilya Davidovich; Markov, Vyacheslav Evgenievich; and Sopin, Alexandr Alexandrovich, 3,651,301.
 Sopp, Albert L., Jr., to Aluminum Company of America. Etching of aluminum base alloys. 3,655,467, 4-11-72, Cl. 156-22.
 Soraci, Oreste; and Hennessy, John A., to Vendo Company, The. Cradle lock mechanism for coin testing devices. 3,684,074, 8-15-72, Cl. 194-102.000.
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 Sordello, Frank J.: See—
 Halfhill, Martin O.; and Sordello, Frank J., 3,646,420.
 Matthews, Richard D.; Halfhill, Martin O.; Sordello, Frank J.; and Yang, Harold S., 3,670,316.
 Sordello, Frank J., to Information Storage Systems, Inc. Circuit to prevent oscillation in an electronic servosystem. 3,659,175, 4-25-72, Cl. 318-624.000.
 Sordello, Frank J., to Information Storage Systems, Inc. Voltage control sawtooth oscillator with flyback time independent of frequency. 3,694,772, 9-26-72, Cl. 331-111.000.
 Sordoni, William B.; and Westawski, Frank S., to Sterling Engineering and Manufacturing Company. Creel adapter. 3,633,844, 1-11-72, Cl. 242-130.
 Soref, Richard A.: See—
 Caulfield, Henry John; McMahon, Donald H.; and Soref, Richard A., 3,635,538.
 Soref, Richard A., to Sperry Rand Corporation. Liquid crystal electro-optical measurement and display devices. 3,675,988, 7-11-72, Cl. 350-160.000.
 Soref, Samuel M.: See—
 Foote, Daniel J.; and Soref, Samuel M., 3,635,057.
 Soreghy, Ivan L., to Libbey-Owens-Ford Company. Safety circuit control device. 3,643,756, 2-22-72, Cl. 180-103.
 Sorell, Henry P.; Pomazak, Eugene; and Rygg, Sven, to Borden Inc. Pressure sensitive adhesive tape. 3,679,458, 7-25-72, Cl. 117-68.500.
 Sorem, Herman. Sighting angle calculator. 3,634,939, 1-18-72, Cl. 33-1.
 Sorensen, Bent; and Hogfeldt, Frank, to Softal Elektronik GmbH. Apparatus for exposing a web material to a controllable spark discharge. 3,662,169, 5-9-72, Cl. 250-49.5.
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 Sorensen, George C. Combustion type power plant having dual function cylindrical rotor and steam injection. 3,688,496, 9-5-72, Cl. 60-39.360.
 Sorensen, Leif Erik, to Anstalt fur Elektrohydraulische Anlagen. Hydraulic systems. 3,678,684, 7-25-72, Cl. 60-19.000.
 Sorensen, Neal E.: See—
 Bailey, Robert C.; Estes, Harry A.; James, Glen S.; Klug, James R.; Montillon, Henry A.; Myring, Verne E.; Robertson, Orville H.; Sargeant, Blaine W.; and Sorensen, Neal E., 3,679,200.
 Sorensen, Robert: See—
 Scarnato, Thomas J.; Dryan, James J.; Lawler, Craig M.; and Sorensen, Robert, 3,678,671.
 Sorensen, Robert L.; and Casanova, John, to Time Incorporated. Molding a plastic printing plaque. 3,695,807, 10-3-72, Cl. 425-407.000.
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 Sorenson, Billy L.; and Strang, Elmer J., to Coats Company, Inc., The. Adapter for tire changing stand. 3,685,565, 8-22-72, Cl. 157-1.240.
 Sorenson Engineering, Inc.: See—
 Sorenson, Jess Frank, 3,684,392.
 Sorenson, Gerald T., to Systems Design Company, Inc. Valve. 3,680,593, 8-1-72, Cl. 137-625.480.
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 Pannier, Karl A., Jr.; Reynolds, Gordon S.; and Sorenson, James L., 3,680,560.
 Reynolds, Gordon S.; Pannier, Karl A., Jr.; and Sorenson, James L., 3,675,891.
 Reynolds, Gordon S.; Pannier, Karl A., Jr.; and Sorenson, James L., 3,685,517.
 Sorenson, James L.; Reynolds, Gordon S.; and Pannier, Karl A., Jr., to Le Voy's, Inc. Disposable body drainage receiver. 3,704,709, 12-5-72, Cl. 128-277.000.
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 Sorenson, Judson Olbert, to Asco, Inc. Apparatus for making a display button. 3,698,065, 10-17-72, Cl. 29-238.000.
 Sorenson, Paul H.: See—
 Laakaniemi, Richard N.; Munch, Otto R.; and Sorenson, Paul H., 3,654,944.
 Sorenson, Richard D.: See—
 James, Robert C.; Vogel, Walter H.; and Sorenson, Richard D., 3,680,446.
 Sorenson, Richard W., to Carling Electric, Inc. Switch case construction. 3,701,870, 10-31-72, Cl. 200-168.00c.
 Sorenson, Richard W., to Carling Electric, Inc. Multiple wing switch case. 3,706,869, 12-19-72, Cl. 200-168.00c.
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 Sorg, Earl H.: See—
 Gallagher, John P.; Meyers, Robert M.; Sorg, Earl H.; and Wil-lits, Clark M., 3,697,472.
 Smith, Daniel J.; Sorg, Earl H.; O'Grady, Elmer V.; and Walters, Fred, 3,659,896.
 Sorg, John H., Jr.: See—
 Cormier, Roger L.; Sorg, John H., Jr.; and Thorn, Caryl A., 3,688,274.
 Sorg Paper Company, The: See—
 Rowsam, Kenneth P.; and Yost, De Witt M., 3,677,887.
 Sorg, Paul: See—
 Knitter, Heinz; and Sorg, Paul, 3,706,065.
 Sorgenfrei, Frederick J., to Minnesota Mining and Manufacturing Company. Smooth high tolerance porous tube and process for making. 3,700,419, 10-24-72, Cl. 29-182.200.
 Sorgenti, Harold A.: See—
 Griesinger, William K.; Sorgenti, Harold A.; and Schell, George W., 3,674,885.
 Sorgenti, Harold A., to Atlantic Richfield Company. Epoxidation of propylene utilizing molybdenum-containing catalyst solutions. 3,666,777, 5-30-72, Cl. 260-348.501.
 Sorger, Gunther U., to Weinschel Engineering Co., Inc. Swept frequency VSWR measurement with slotted line. 3,693,078, 9-19-72, Cl. 324-58.00b.
 Sori, Naoyuki: See—
 Abe, Isamu; Yashiro, Hideo; Sori, Naoyuki; Hatano, Sotaro; Katsumoto, Tomiyasu; and Suzuki, Tadao, 3,670,395.
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 Soria, Alberto Olague; and Sanchez, Avelino Martinez. Apparatus for purifying gases. 3,648,441, 3-14-72, Cl. 55-247.
 Soriano, Charles A.: See—
 Stephenson, George M.; and Soriano, Charles A., 3,650,438.
 Soriano, Rene: See—
 Goldfarb, Adolph E.; and Soriano, Rene, 3,672,095.
 Goldfarb, Adolph E.; and Soriano, Rene, 3,672,676.
 Soriente, Alfonso J.: See—
 Wapner, Stanley H.; and Soriente, Alfonso J., 3,664,003.
 Sorimachi, Kanehiro, to Canon Kabushiki Kaisha. Film rewinding device. 3,682,408, 8-8-72, Cl. 242-71.100.
 Sorkin, Howard; and Klein, Richard Ira, to RCA Corporation. Fabrication of liquid crystal devices. 3,698,449, 10-17-72, Cl. 141-1.000.
 Sorlie, Donald Thomas: See—

- Skrommc, Arnold Burton; Lindstrom, Harold Richard; Henning-sen, Edgar August; Beldin, Royal Lowell; Sorlie, Donald Thomas; and Eckert, Elmer Richard, 3,667,734.
 Sorm, Frantisek: See—
 Hejno, Karel; Jarolim, Vaclav; Slama, Karel; and Sorm, Frantisek, 3,636,018.
 Jarolim, Vaclav; Hejno, Karel; Slama, Karel; and Sorm, Frantisek, 3,637,674.
 Jarolim, Vaclav; Hejno, Karel; Slama, Karel; and Sorm, Frantisek, 3,657,291.
 Romanuk, Miroslav; Slama, Karel; and Sorm, Frantisek, 3,634,470.
 Romanuk, Miroslav; Slama, Karel; and Sorm, Frantisek, 3,674,819.
 Romanuk, Miroslav; Sorm, Frantisek; and Slama, Karel, 3,707,491.
 Sormani, Luigi Oscar, to Walowski, Raymond J. Process for produc-ing an antique finish. 3,692,557, 9-19-72, Cl. 117-41.000.
 Sorokin, Konstantin Alexandrovich: See—
 Okorokov, Ivan Fedorovich; Bogdanov, Gorgy Porfirievich; Sorokin, Konstantin Alexandrovich; Onischenko, Anatoly Fedorovich; Ziborov, Pavel Efimovich; and Perstnev, Samuil Nisonovich, 3,705,559.
 Sorokin, Peter P., to International Business Machines Corporation. Optically pumped liquid lasers. 3,679,995, 7-25-72, Cl. 331-94.500.
 Sorokin, Vasily Mikhailovich: See—
 Novikov, Vladimir Vasilievich; Gubin, Alexandr Ivanovich; and Sorokin, Vasily Mikhailovich, 3,693,246.
 Soros, Paul. Apparatus for storing particulate material. 3,677,392, 7-18-72, Cl. 198-36.000.
 Sorrell, Ronald R.: See—
 Caldwell, James E.; and Sorrell, Ronald R., 3,706,822.
 Sorrell, Stanley Edward, to Sterling Coated Materials Limited. En-velope with sealing means. 3,675,844, 7-11-72, Cl. 229-80.000.
 Sorrells, Frank D.: See—
 Lee, Charles A.; and Sorrells, Frank D., 3,640,000.
 Sorrells, John R.: See—
 Brown, Robert G.; Sorrells, John R.; and Trent, Joseph E., 3,680,855.
 Sorstokke, Harold E.; Stamm, Walter; and Uhing, Eugene H., to Stauffer Chemical Company. Process for the preparation of bis (bethachloroethyl) vinyl phosphonates. 3,694,527, 9-26-72, Cl. 260-986.000.
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 Sorteberg, Johannes. Non-bleed pilot valve. 3,672,629, 6-27-72, Cl. 251-61.200.
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 Chapman, Robert R., 3,701,418.
 Gillespie, Robert M.; and Rhys, Hugh R., 3,650,396.
 Sorvall, Ivan, Inc.: See—
 Blum, Josef, 3,680,420.
 Mitchell, David F.; and Romanaukas, William A., 3,674,197.
 Romanaukas, William A., 3,635,370.
 Williams, John F., 3,655,293.
 Sosa, Pedro Baez, to Efficient Instruments Corporation. Remote control for operating vehicle door latches. 3,689,116, 9-5-72, Cl. 280-146.000.
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 Wise, Dan S.; and Sosebee, James L., 3,651,877.
 Sosin, Boleslaw Marian, to Marconi Company, Limited, The. Parallel amplifiers with input and output sequences of hybrids. 3,701,038, 10-24-72, Cl. 330-124.00r.
 Sosnitsky, Nikolai Georgievich: See—
 Kotov, Evgeny Pavlovich; Legostov, Viktor Vladimirovich; Stepanov, Evgeny Alexeevich; Chuchalov, Alexandr Mik-hailovich; Maierov, Nikolai Kuzmich; Merezko, Gennady Pavlovich; Komarov, Anatoly Semenovich; and Sosnitsky, Nikolai Georgievich, 3,694,570.
 Sosnowski, Thomas Patrick: See—
 Klein, Marvin Bertrand; and Sosnowski, Thomas Patrick, 3,663,892.
 Larsen, Arthur Bertel; Sosnowski, Thomas Patrick; and Townsend, Richard Lee, Jr., 3,681,519.
 Sossen, Edwin J.: See—
 Cooper, Robert B., Jr., 3,673,509.
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 Sotnichenko, Boris Feodosievich: See—
 Scherban, Alexandr Nazarievich; Furman, Neonil Izrailevich; Sotnichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Jury Ivanovich; Sutormin, Jury Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chaschinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna, 3,678,489.
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 Sotolongo, Thomas J., to Thomas & Betts Corporation. Liquid tight strain relief connector. 3,667,783, 6-6-72, Cl. 285-161.000.
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 Sotome, Hiromi. Suspension for loudspeaker. 3,684,052, 8-15-72, Cl. 181-32.00r.
 Sotomura, Mikio: See—
 Sawa, Yoshi; Itoh, Takashi; Kojima, Minoru; and Sotomura, Mikio, 3,639,154.
 Soubis, Jean-Pierre, to Chrysler France. Switching-off device for in-ternal combustion engine fed by a dual-body carburettor. 3,678,911, 7-25-72, Cl. 123-127.000.
 Soucie, Ronald W. Golf driving range construction. 3,706,452, 12-19-72, Cl. 273-35.00r.
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 Souders, Marvyn L.: See—
 Boyhont, Donald S.; and Souders, Marvyn L., 3,704,917.
 Soudyn, Willem; and Van Wijngaarden, Ineke, to Janssen Phar-maceutica, N.V. Pharmaceutical compositions. 3,646,207, 2-29-72, Cl. 424-266.
 Souillard, Michel Henry Pierre, to Compagnie des Compteurs. Balanced current-directional relay for the detection of multiphase line defects. 3,651,377, 3-21-72, Cl. 317-27.
 Soukup, Dale F.: See—
 Heyer, William T.; and Soukup, Dale F., 3,638,682.
 Heyer, William T.; and Soukup, Dale F., 3,674,237.
 Soukup, Robert J.: See—
 Parliment, Thomas H.; Clinton, William P.; Scarpellino, Richard; Soukup, Robert J.; and Epstein, Martin F., 3,655,397.
 Soulakis, George: See—
 Baynes, William R.; La Branche, Harvey W.; and Soulakis, George, 3,695,513.
 Folsom, Henry J.; Boxley, Denis V.; Kingsbury, James; Kraitzer, Shlomo; Soulakis, George; and Whittington, Jimmie L., 3,706,153.
 Smith, Robert S.; Bosley, Denis V.; and Soulakis, George, 3,693,289.
 Soulakis, George; and Staats, William A., to Mattel, Inc. Brake mechanism for miniature toy vehicles. 3,659,680, 5-2-72, Cl. 188-62.
 Soulant, Herman A., Jr.; and Brisker, Henry C. Methods for mag-netically measuring stress using the linear relationship of the third harmonic to stress. 3,636,437, 1-18-72, Cl. 324-34.
 Soulant, Herman A., Jr., to United States of America, Navy. Mag-netic linearity tensiductor for measuring tension in a running line. 3,648,161, 3-7-72, Cl. 324-34.
 Soulard, Solange F. G.: See—
 Billant, Jean, 3,657,850.
 Soules, Jack A., to United States of America, Navy. Pulse chirp laser ranging device. 3,647,298, 3-7-72, Cl. 356-5.
 Soulie, Guy; and Lozach, Gerard. Propelling devices for tools to lower or raise safety appliances in oil wells. 3,692,108, 9-19-72, Cl. 166-153.000.
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 Soumas, Charles A.; and Spontak, David J., to Beckman Instru-ments, Inc. Analog computation of insurance and investment quantities. 3,634,669, 1-11-72, Cl. 235-184.
 Soupene, Pierre: See—
 Frerson, Raymond; Gravier, Claude; Ravenel, Pierre; and Sou-pene, Pierre, 3,640,621.

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- Sourbutts, Stanley: *See—*
Oeppen, Brian; Edmondson, John; and Sourbutts, Stanley, 3,695,816.
- Sourby, John C.: *See—*
Kohl, Willibald F.; Sourby, John C.; and Ellinger, Rudolph H., 3,682,660.
- Souresny, Herbert, to Schoeller-Bleckman Stahlwerke Aktien-gesellschaft. Nonmagnetic corrosion-resistant drill string members. 3,659,882, 5-2-72, Cl. 285-333.
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- Sousa, Anthony A.: *See—*
Arnold, Donald R.; and Sousa, Anthony A., 3,636,217.
- Sousa, Lionel Anthony James: *See—*
Angilly, Fredrick Ernest, Jr.; Miner, George Lindol; and Sousa, Lionel Anthony James, 3,667,195.
- Sousek, Eugene A.: *See—*
Witt, Wilmer E.; Sousek, Eugene A.; and Clish, Clyde A., 3,638,363.
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- Soussan, Salomon: *See—*
Chatelain, Jean; and Soussan, Salomon, 3,678,021.
Thomas, Jean Claude; and Soussan, Salomon, 3,687,923.
- South African Inventions Development Corporation: *See—*
Berrange, Aubrey Ralph, 3,662,658.
Polson, Alfred; and Katz, Woolf, 3,640,809.
- South African Pulp and Paper Industries, Limited: *See—*
Smith, Leon; Calvert, David W.; Robert, Andre; and Viallet, Andre, 3,657,065.
- Verreyne, Abraham Jacob; Job, Leonard Austin; Rerolle, Paul; and Richter, Johan C. F. C., 3,660,225.
- South, Derek Bye: *See—*
Johnson, Harold Hector; South, Derek Bye; and White, Charles Victor Burdett, 3,678,282.
- South, William H.: *See—*
Kozlovic, John M.; and South, William H., 3,644,790.
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Gilbertson, Warren L.; Shelton, Everett T., Jr.; and Southall, Robert M., 3,703,865.
- Southall, Ronald Herbert: *See—*
Whitton, Richard Wilfred; Southall, Ronald Herbert; McKenzie, Michael William; and Shackleford, Ralph Edward, 3,653,979.
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Gamblin, Rodger L.; and Southard, Carl D., 3,656,827.
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- Southard, George Lee, to Lilly, Eli, and Company. Resins useful in peptide synthesis. 3,645,996, 2-29-72, Cl. 260-88.2.
- Southbourne Rubber Company Limited: *See—*
Duncan, Leslie C. V., 3,640,496.
- Southco, Inc.: *See—*
Barry, John K., 3,673,913.
- Southeastern Aluminum Products, Inc.: *See—*
Tanner, Homer C., 3,650,071.
Tanner, Homer C., 3,683,451.
- Southeastern Products, Inc.: *See—*
Lee, Charles A., 3,686,021.
- Southern California Chemical Co., Inc.: *See—*
King, Edwin B., 3,705,061.
- Southern California Gas Co.: *See—*
Osborne, Keith, 3,676,042.
Teague, Walter D., Jr., 3,696,802.
- Southern Cross Corporation: *See—*
Carter, Bob A., 3,703,356.
- Southern Cross Industries, Inc.: *See—*
Barrineau, Wade H., 3,677,203.
Barrineau, Wade H., III, 3,705,654.
Bustos, Rafael Thomas, 3,664,274.
- Southern Illinois University Foundation: *See—*
De Miller, James N.; and Darling, Stephen D., 3,632,802.
- Southern Iron and Equipment Company: *See—*
Brazell, James W., 3,645,406.
- Southern Laminating Co.: *See—*
Kuhns, Frederick S., 3,695,966.
- Southern Machinery Company: *See—*
Cutting, Arch E.; Owens, Carlos L.; Williams, Dewey H.; and Hooper, Felix E., 3,677,305.
Riddle, Franklin D.; and Willis, John T., 3,672,513.
- Southern, Michael, to Rosemount Engineering Company Limited. Control systems having proportional and integral control. 3,646,454, 2-29-72, Cl. 328-127.
- Southern Pacific Transportation Company: *See—*
Wong, Peter J.; Ross, Dale W.; and Gardiner, Kenneth W., 3,689,788.
- Southern, Peter Fulton, to Imperial Chemical Industries Limited. Halogenophenyl-isoxazoly-alkanoic acid derivatives. 3,642,812, 2-15-72, Cl. 260-307.
- Southern, Raymond L.: *See—*
Kozak, Larry M.; and Southern, Raymond L., 3,632,034.
- Southern Research Institute: *See—*
Lacey, Robert E.; and Mintz, Milton S., 3,676,335.
Tanquary, Albert Charles, 3,691,119.
- Southern Weaving Company: *See—*
Tatum, Odes D.; and Ross, Edgar A., 3,654,380.
- Southiere, Bertrand: *See—*
Perreault, Jules; and Southiere, Bertrand, 3,658,392.
- Southiere, Bertrand, to Bombardier Limited. Chain tensioning device for snowmobile type transmission. 3,673,884, 7-4-72, Cl. 74-242.11s.
- Southwell, Geoffrey, to Weston Instruments, Inc. Resistor with a least two points of manipulation for adjustment. 3,660,796, 5-2-72, Cl. 338-180.
- Southwest Resources, Inc.: *See—*
McDaniel, Philip F.; and Kirby, Lonnie Dee, 3,642,129.
- Southwick, Hillman: *See—*
Parker, Marion L.; and Southwick, Hillman, 3,642,089.
- Southwick, Kenneth J., to Pyro-Magnetics Corporation. Apparatus for the destruction of refuse. 3,648,629, 3-14-72, Cl. 110-8.
- Southwick, Russell D.: *See—*
Augustson, Bengt O.; and Southwick, Russell D., 3,688,737.
- Southwire Company: *See—*
Cofer, Daniel B., 3,672,430.
Cofer, Daniel B.; and Bray, Thomas L., 3,703,261.
Mc Dermitt, Floyd P., 3,702,404.
Schoerner, Roger J., 3,647,562.
Schoerner, Roger J., 3,647,563.
Schoerner, Roger J., 3,647,564.
Schoerner, Roger J., 3,647,939.
Schoerner, Roger J., 3,670,401.
Schoerner, Roger J., 3,647,565.
Todd, Chester F., 3,673,039.
West, David H.; and Stone, Kenneth R., 3,672,199.
- Southworth, Donovan A.: *See—*
Peterson, Wesley D.; and Southworth, Donovan A., 3,699,483.
- Southworth, Glen R., to Colorado Video, Incorporated. Television bandwidth compression and expansion system. 3,683,111, 8-8-72, Cl. 178-6.000.
- Southworth Machine Company: *See—*
Thompson, Gene C.; Radomski, Joseph E.; and Wilson, David E., 3,680,220.
- Southworth, Richard V.: *See—*
Culbert, Robert M.; and Southworth, Richard V., 3,641,744.
- Southworth, Ronald W., to U.S. Plywood-Champion Papers Inc. Board transfer device. 3,680,692, 8-1-72, Cl. 209-74.00m.
- Southworth, Wallace D.: *See—*
Wilson, Joseph F.; and Southworth, Wallace D., 3,692,511.
- Souviron, Paul: *See—*
Cluzel, Jean; and Souviron, Paul, 3,661,985.
- Souza, Augustine A., to Polygon Concepts. Produce shipping container. 3,700,137, 10-24-72, Cl. 220-97.00e.
- Souza, Carlos. Sanitary throwaway refuse container. 3,632,038, 1-4-72, Cl. 229-37.
- Souza, Joseph G., to Cable Electric Products, Inc. Sleeve wrapper construction. 3,666,089, 5-30-72, Cl. 206-52.00w.
- Souza, Ronald: *See—*
Dunne, Owen F.; Hebert, William E.; Souza, Ronald; and War-gat, Edward, 3,696,770.
- Sovcor Electronique: *See—*
Boursin, Rene A., 3,697,818.
- Sovereign, Gerald W.: *See—*
Self, Joseph A.; Sovereign, Gerald W.; and Peacock, Alton E., 3,663,352.
- Sovereign Finanz A.G.: *See—*
Gulliksson, Karl Ivar Ake, 3,650,477.
- Soves Limited: *See—*
Rooke, Sydney William, 3,651,940.
- Sovetin, Vladimir Kirilovich: *See—*
Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leenieux, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gul-

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- Sovex Limited: *See—*
Rooke, Sydney William; and Coston, Ronald Francis, 3,651,967.
- Soviche, Gilles Andre Paul; Bues, Jean Pierre; Pavlin, Cyrille Francois; and Mace, Edouard Maurice Eugene Aime, to Entreprise de Recherches et d'Activites Petrolieres Elf, and Bertin & Cie. Regulating device in which the pressure of a fluid is regulated. 3,654,945, 4-11-72, Cl. 137-81.5.
- Soward, Dallas V.: *See—*
Harris, Carl R.; Banks, Robert B.; and Soward, Dallas V., 3,701,279.
- Sowards, Donald M., to Du Pont de Nemours, E. I., and Company. Dispersed phase activated and stabilized metal catalysts. 3,666,412, 5-30-72, Cl. 23-162.
- Sowards, Edward W. Ventilating system. 3,649,972, 3-21-72, Cl. 4-211.
- Sowers, John E.: *See—*
Maxwell, Hennis M.; Sowers, John E.; and Laidman, John Neil, 3,639,142.
- Sowko, John J., Sr., to Carmet Company. Method of making powder composites. 3,672,881, 6-27-72, Cl. 75-208.00r.
- Soyland, Ingebet; and Soyland, Kristian. Means for regulating power for pumps. 3,695,783, 10-3-72, Cl. 417-216.000.
- Soyland, Kristian: *See—*
Soyland, Ingebet; and Soyland, Kristian, 3,695,783.
- S.p.A. Antonio Ferrari & Figli: *See—*
Ferrari, Giuseppe, 3,664,551.
- S.p.A. Virginio Rimoldi & Co.: *See—*
Marforio, Nerino, 3,658,020.
- SPA-Societa Prodotti Antibiotici S.p.A.: *See—*
Notarianni, Aurelio Filippo, 3,632,585.
Notarianni, Aurelio Filippo; and Ghielmetti, Giuseppe, 3,639,594.
- Spaargaren, Klaas; and Bijl, Aart, to Shell Oil Company. Control of a process variable by a computer and a controller which replaces the computer. 3,665,172, 5-23-72, Cl. 235-150.1.
- Space Ordnance Systems Inc.: *See—*
Colburn, William H., Jr., 3,703,144.
Farrand, Weston B.; Gardner, John N.; and Valenti, Robert M., 3,686,934.
- Space Research Corporation: *See—*
Bull, Gerald V.; and Palacio, Luis M., 3,695,181.
- Space Sciences Incorporated: *See—*
Aisenberg, Sol; and Chang, Kuo Wei, 3,660,700.
- Space Tool, Inc.: *See—*
Halls, Kenneth F.; and Brickley, Alfred H., 3,640,159.
- Spacek, George Citrad. High frequency converter. 3,638,126, 1-25-72, Cl. 325-446.
- Spacek, George Citrad. Fuel consumption indicator. 3,673,863, 7-4-72, Cl. 73-114.000.
- Spacetac Incorporated: *See—*
Cocca, Theodore F., 3,699,650.
Fiore, Anthony N.; and McCarron, John D., 3,648,181.
Shute, Donald W., 3,671,781.
- Spacht, Ronald B., to Goodyear Tire & Rubber Company. The Mix-ture of mono and di-orthotertiary hexyl para-cresols. 3,682,904, 8-8-72, Cl. 260-624.00r.
- Spacht, Ronald B. N-Phenyl-N'-salicyloyl-phenylene diamines. 3,703,552, 11-21-72, Cl. 260-559.000.
- Spacil, Henry S.: *See—*
Tedmon, Craig S., Jr.; and Spacil, Henry S., 3,639,177.
- Spacil, Henry S., to General Electric Company. Solid oxygen-ion electrolyte cell for the dissociation of steam. 3,635,812, 1-18-72, Cl. 204-193.
- Spacko, Roman F.: *See—*
Nelson, Axel B.; and Spacko, Roman F., 3,656,499.
- Spada, Bartholomes J.: *See—*
Lipson, Herbert G.; and Spada, Bartholomes J., 3,633,573.
- Spade, Kenneth L.: *See—*
Anderson, Richard M.; Parrish, Hushel L., Jr.; and Spade, Kenneth L., 3,691,786.
- Spade, Robert L., to Belden Corporation. Coaxial cable. 3,688,016, 8-29-72, Cl. 174-36.000.
- Spaderna, Conan H. Universal electric connector. 3,699,499, 10-17-72, Cl. 339-91.00r.
- Spaderna, Conan Henry. Snap action electric switch. 3,665,131, 5-23-72, Cl. 200-67.00b.
- Spadini, Paolo. Alarm wrist-watch. 3,638,418, 2-1-72, Cl. 58-57.5.
- Spadt, Walter, Jr.: *See—*
Bradley, Thomas E.; and Spadt, Walter, Jr., 3,682,551.
- Spaenig, Hermann: *See—*
Adolphi, Heinrich; Steimmig, Anna; and Spaenig, Hermann, 3,641,248.
Adolphi, Heinrich; Steimmig, Anna; and Spaenig, Hermann, 3,681,375.
- Spaenig, Hermann; Steimmig, Anna; and Sand, Jakob, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of substituted imidazoles. 3,652,581, 3-28-72, Cl. 260-309.2.
- Spaeth, Albert J.: *See—*
Harlan, Warren H.; and Spaeth, Albert J., 3,690,484.
- Spaeth, Claus; and Wilhelm, Gunter, to Villeroy Boch Keramische Werke, KG. Apparatus for grinding the bottom of drinking glasses. 3,688,448, 9-5-72, Cl. 51-105.00r.
- Spaeth, Irvin J., to Evans Products Company. Railway brake gear bottom rod guard. 3,703,225, 11-21-72, Cl. 188-210.000.
- Spahn, Walter: *See—*
Stahl, Gerhard; Spahn, Walter; Fischer, Willi; and Auth, Franz, 3,642,258.
- Spahn, Walter, to Messer Griesheim GmbH. Piston check valve. 3,684,006, 8-15-72, Cl. 165-97.000.
- Spahn, Walter. Partition wall seal between the feed and discharge tubes of a column plate. 3,686,075, 8-22-72, Cl. 202-158.000.
- Spaiches, Albert E., to Schlegel Manufacturing Company. The Win-dow glass glazing system. 3,694,985, 10-3-72, Cl. 52-400.000.
- Spaid, William L. Digital capacitance meter. 3,644,751, 2-22-72, Cl. 307-228.
- Spain, Byron: *See—*
Sullivan, Charles E., 3,685,538.
- Spain, Raymond G., to Monsanto Company. Carbon composite structure including a band of helically wound carbon fibers. 3,639,197, 2-1-72, Cl. 161-35.
- Spain, Robert J., to Compagnie Internationale pour l'Informatique. Binary coded information stores. 3,699,550, 10-17-72, Cl. 340-174.0tw.
- Spain, Roy C. Machine for manufacturing a lock tumbler. 3,643,324, 2-22-72, Cl. 29-566.
- Spainhour, Bettye G.; and Willis, Jack B. Vehicle litter receptacle. 3,690,446, 9-12-72, Cl. 206-1.000.
- Spalding, A. G., & Bros. Inc.: *See—*
Richard, Henry P., 3,640,028.
- Spalding, Donald P.; and Close, James G. Coat hanger having theft alarm. 3,668,680, 6-6-72, Cl. 340-280.000.
- Spalding, George: *See—*
Beck, Otto; and Spalding, George, 3,700,854.
- Spalding, James R., to General Electric Company. Friction coupling. 3,640,363, 2-8-72, Cl. 192-65.
- Spalding, Richard Elliot Thornton, to American Cyanamid Com-pany. Composite laminate of water-extended unsaturated polyester. 3,639,149, 2-1-72, Cl. 117-76.
- Spalding, Thomas P. Ignition system. 3,646,922, 3-7-72, Cl. 123-117.
- Spaleck, Max, G.m.b.H.: *See—*
Ditscherlein, Friedhold, 3,638,297.
- Spalek, Raymond J.: *See—*
Fleming, Roger A.; Harlacher, William H.; Spalek, Raymond J.; and Lowe, James B., 3,658,981.
- Spaleny, George R.: *See—*
Staneck, Robert W.; and Spaleny, George R., 3,688,959.
- Spall, Charles J., Jr.: *See—*
Bedard, Peter R.; and Spall, Charles J., Jr., 3,649,962.
- Spalla, Celestino: *See—*
Amici, Alba-Maria; Minghetti, Anacleto; Scotti, Tullio; and Spalla, Celestino, 3,658,653.
- Spalti, Max: *See—*
Zuhlke, Gerhard; Brandli, Paul; and Spalti, Max, 3,678,550.
- Spampanato, Gavino Anthony: *See—*
Patmore, James R.; Bozenhard, Walter Frank; and Spampanato, Gavino Anthony, 3,678,258.
- Span, Hylco J. Th.; and Woestenenk, Albert J., to Bitumarin N.V. Bituminous compositions in hydraulic constructions. 3,635,033, 1-18-72, Cl. 61-4.
- Span, Samuel; and Thum, Walter. Toy. 3,654,727, 4-11-72, Cl. 46-17.
- Spandau, Howard D., 1/3 to Johnson, David M. and 1/3 to Fleming, Robert L. Apparatus and method for confining and collecting oil floating on a water surface. 3,641,771, 2-15-72, Cl. 61-1.
- Spanel, Abram N.: *See—*
Spanel, Abram N.; and Schwartz, John L. (said Schwartz, John L., assor. to), 3,670,672.
Spanel, Abram N.; and Terry, Roy P., Jr., 3,704,544.
Spanel, Abram N. Color applicator for hair. 3,640,288, 2-8-72, Cl. 132-9.
- Spanel, Abram N.; and Schwartz, John L., said Schwartz, John L., assor. to Spanel, Abram N. Tufting machines for manufacture of tufted fabrics, tufted carpets, rugs, drapes, heavy fabrics, and the like. 3,670,672, 6-20-72, Cl. 112-79.
- Spanel, Abram N.; and Terry, Roy P., Jr., to Spanel, Abram N. Ground cover sheet. 3,704,544, 12-5-72, Cl. 47-9.000.
- Spang Industries, Inc.: *See—*
Laing, Alfred M., 3,666,571.
- Spangemacher, Kurt, to Maschinenbau-Aktiengesellschaft Balcke. Method and apparatus for withdrawing heat from industrial plants, especially power plants. 3,635,042, 1-18-72, Cl. 62-121.
- Spangemacher, Kurt, to Maschinenbau-Aktiengesellschaft Balcke. Cooling tower system. 3,685,579, 8-22-72, Cl. 165-122.000.
- Spangenberg, Gerhard: *See—*

- Petry, Henry Alfred; Rerecich, Francis; and Spangenberg, Gerhard, 3,648,496.
- Spangenberg, Gerhard D.: *See—*
Thomas, John A., Jr.; and Spangenberg, Gerhard D., 3,659,968.
- Spangler, Carl D., Jr.; Radd, Frederick J.; and Wolfe, Louis H., to Continental Oil Company. Thermal decomposition of organic compounds. 3,704,333, 11-28-72, Cl. 260-683.000.
- Spangler, Earl G., to Lockheed Aircraft Corporation. Ceramics produced from spodumene, petalite and clay. 3,690,904, 9-12-72, Cl. 106-39.000.
- Spangler, Frederick E.; and Wetherell, Daniel L., to General Electric Company. Method for tuning discriminators. 3,662,459, 5-16-72, Cl. 29-593.
- Spangler, Herbert D.; and Walker, William G., to Merck & Co., Inc. Concentrated water suspension of nutrients. 3,689,641, 9-5-72, Cl. 424-147.000.
- Spangler, Myrtle Joanne, to Dan River Inc. Crease-proofing compositions containing glyoxal modified urea resins and processes for making same. 3,671,307, 6-20-72, Cl. 117-139.400.
- Spangler, Paul J.; and Morgan, Thomas E., to International Telephone and Telegraph Corporation. Insulated flat wire terminal. 3,696,322, 10-3-72, Cl. 339-97.000.
- Spangler, Richard M., to Hewlett-Packard Company. Stored data recall means for an electronic calculator. 3,675,213, 7-4-72, Cl. 340-172.500.
- Spangler, Richard M., to Hewlett-Packard Company. Electronic calculator. 3,678,466, 7-18-72, Cl. 340-172.500.
- Spangler, Richard M., to Hewlett-Packard Company. Subroutine call and return means for an electronic calculator. 3,693,162, 9-19-72, Cl. 340-172.500.
- Spangler, Robert E.: *See—*
Whittemore, Charles A.; and Spangler, Robert E., 3,639,345.
- Spangler, Ross; and Materre, Christine, to Helene Industries, Inc. Stretch wigs. 3,654,938, 4-11-72, Cl. 132-53.
- Spangler, William Gilbert; and Cross, Henry Daniel, III. Detergent compositions. 3,700,401, 10-24-72, Cl. 8-108.000.
- Spani, Wayne, to Eastman Kodak Company. Excess 3 to BCD code converter. 3,706,878, 12-19-72, Cl. 235-155.000.
- Spani, Wayne, to Eastman Kodak Company. BCD to excess 3 code converter. 3,706,880, 12-19-72, Cl. 235-155.000.
- Spanier, Henry C.: *See—*
Ronai, Kenneth S.; and Spanier, Henry C., 3,640,728.
Ronai, Kenneth S.; and Spanier, Henry C., 3,640,729.
Ronai, Kenneth S.; and Spanier, Henry C., 3,704,134.
- Spanier, Joseph A. Assembled camouflage material of interlocked separate units. 3,661,689, 5-9-72, Cl. 161-37.
- Spanjer, Keith Gordon, to Motorola, Inc. Injection mold wherein moveable cavity portions are to close the mold gates and further compress the mold material. 3,685,784, 8-22-72, Cl. 249-110.000.
- Spanjersberg, Arie Adriaan, to De Staat der Nederlanden, ten deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen Telegrafie en Telefonie. Octonal code reader. 3,649,814, 3-14-72, Cl. 235-61.11.
- Spanke, Edwin A.: *See—*
Carrier, Louis F.; and Spanke, Edwin A., 3,675,976.
- Spann, Donald C., to Phillips Petroleum Company. Imitation sliver knit pile fabric. 3,674,618, 7-4-72, Cl. 161-64.000.
- Spannlang, Ronald, to Vereinigte Österreichische Eisen- und Stahlwerke Aktiengesellschaft. Steel-converter handling vehicle. 3,640,503, 2-8-72, Cl. 254-84.
- Spanos, Theodore, III: *See—*
Godar, Richard L.; and Spanos, Theodore, III, 3,654,346.
- Spanos, Theodore, III; and Godar, Richard L., to Petrolite Corporation. Use of poly-ester-amide-acids as rust or corrosion inhibitors. 3,703,587, 11-21-72, Cl. 21-2.500.
- Spanos, William M.; and Polgar, Michael S., to International Telephone and Telegraph Corporation. Discone antenna. 3,641,578, 2-8-72, Cl. 343-773.
- Spanos, William M., to International Telephone and Telegraph Corporation. Continuous phase shifter/resolver employing a rotary halfwave plate. 3,673,516, 6-27-72, Cl. 333-5.000.
- Spanoudis, Louis, to Owens-Illinois, Inc. Process of making glass lasers of increased heat dissipation capability. 3,660,060, 5-2-72, Cl. 65-30.
- Spanoudis, Louis, to Owens-Illinois, Inc. Glass lasers of increased heat dissipation capability made by ion exchange treatment of the laser glass. 3,687,799, 8-29-72, Cl. 161-164.000.
- Spanset Inter AG.: *See—*
Norrmann, Ruben Henry, 3,707,021.
- Spanton, Robert George; Wakefield, Gordon Cecil John; Quarby, Robert Charles; and Clarke, Terence James Leonard, to British United Shoe Machinery Company Limited, The. Feeding particulate material. 3,662,923, 5-16-72, Cl. 222-55.
- Spar Aerospace Products Limited: *See—*
Groskopf, Ernest, 3,663,770.
- Sparcatron Limited: *See—*
Smith, Gordon Victor; and Ward, Eric John, 3,673,371.
- Sparcraft, Inc.: *See—*
Hessemer, Lawrence E.; Manning, Richard P.; Sparks, Harry G.; and Powers, Walter H., 3,644,728.
- Sparer, Seno: *See—*
Reuter, Henry G., Jr.; and Sparer, Seno, 3,636,925.
- Sparkler Manufacturing Company: *See—*
Kracklauer, Aloysius C., 3,655,049.
- Sparks, A. J., & Company, mesne: *See—*
Mol, Edward K.; and Stahl, Marvin D., 3,661,245.
- Sparks, Allen K.: *See—*
Arrigo, Joseph T.; and Sparks, Allen K., 3,707,481.
- Sparks, Allen K.; and Latos, Edwin J., to Universal Oil Products Company. Stabilization of rubber. 3,645,966, 2-29-72, Cl. 260-45.9.
- Sparks, Allen K., to Universal Oil Products Company. Alkylation phenolic compound. 3,670,030, 6-13-72, Cl. 260-613.000.
- Sparks, Allen K., to Universal Products Company. Stabilization of lubricants. 3,677,945, 7-18-72, Cl. 252-49.600.
- Sparks, Allen K., to Universal Oil Products Company. Alkylation of phenolic or thiophenolic compound. 3,683,030, 8-8-72, Cl. 260-613.000.
- Sparks, Allen K.; and Louvar, James J. Antioxidant mixture of an amineborate and a ketonephenol or aldehydephenol. 3,694,374, 9-26-72, Cl. 252-400.000.
- Sparks, Bryan: *See—*
Hornbaker, Edwin D.; Sparks, Bryan; and Orloff, Harold D., 3,689,355.
- Sparks, Buddy G.: *See—*
Murphy, Frank W., Jr.; Sparks, Buddy G.; Lawrence, Charles H.; and Rickard, Donald R., 3,688,577.
- Sparks, Charles H. Cloth reinforcing member for use in making tissue grafts. 3,703,009, 11-21-72, Cl. 3-1.000.
- Sparks, Fred L. Bagging and checkout counter system. 3,696,586, 10-10-72, Cl. 53-390.000.
- Sparks, Harold R., to Knock & Associates, mesne. Lock washer. 3,680,619, 8-1-72, Cl. 151-36.000.
- Sparks, Harry G.: *See—*
Hessemer, Lawrence E.; Manning, Richard P.; Sparks, Harry G.; and Powers, Walter H., 3,644,728.
- Sparks, Robert J. Heat conductor. 3,633,666, 1-11-72, Cl. 165-185.
- Sparks, William J. Process for manufacturing of a grip for hand powered equipment. 3,638,295, 2-1-72, Cl. 29-407.
- Sparlin, Derry D., to Continental Oil Company. Control of incompetent formations. 3,692,116, 9-19-72, Cl. 166-295.000.
- Sparlin, Derry D., to Continental Oil Company. Promotion of burning of oil slicks with particulate, foamed alkali metal silicates. 3,698,850, 10-17-72, Cl. 431-8.000.
- Sparling, Joseph T. Method and system for transporting oil by pipe line. 3,650,119, 3-21-72, Cl. 62-55.
- Sparling, Raymond T.; and Dietz, William A., to Hersey-Sparling Meter Company. Cycling valve and valving assembly for water softeners. 3,700,007, 10-24-72, Cl. 137-625.290.
- Sparrendahl, Gunnar Erik William, to Telefonaktiebolaget L M Ericsson. Method for transferring information in the form of time separated signal elements between subscribers in a telecommunication system and a telecommunication system, etc. 3,643,030, 2-15-72, Cl. 179-15.
- Sparrow, Hubert T., to Honeywell Inc. Transducer having single layered magnetostrictive member. 3,638,153, 1-25-72, Cl. 335-215.
- Sparrow, Robert E.: *See—*
Pask, Arthur H.; Sparrow, Robert E.; and Boulanger, Roger J., 3,681,536.
- Sparta Brush Co., Incorporated: *See—*
Larson, Joseph A., 3,657,761.
- Spartanics, Ltd.: *See—*
Mohan, William L.; and Willits, Samuel P., 3,643,068.
Mohan, William L.; and Willits, Samuel P., 3,663,803.
Willits, Samuel P., 3,643,098.
- Sparton Corporation: *See—*
Depew, Donald R.; Greenman, Karl L.; and Probert, Daniel C., 3,660,807.
- Mueller, John L., 3,658,152.
- Pierson, William D., 3,664,175.
- Widenhofer, James W., 3,701,175.
- Williams, Roland H., 3,692,586.
- Spassky, Konstantin Semenovich: *See—*
Britvin, Lev Nikolaevich; Sergeev, Vitaly Andreevich; Spassky, Konstantin Semenovich; Smirnov, Igor Nikolaevich; Scheglov, Gennady Mikhailovich; Shtelmakh, Alexandr Alexandrovich; Prudovsky, Boris Moiseevich; Karakhanian, Vladimir Karpovich; Ivanov, Viktor Vasilievich; and Semenov, Mikhail Ivanovich, 3,659,969.
- Spataru, Nicolae: *See—*
Moisescu, Gheorghe; Stoica, Valer; Wolf, Carol; and Spataru, Nicolae, 3,640,206.
- Spatz, Donald Dean, to Osmonics, Inc. Metal reclamation process and apparatus. 3,637,467, 1-25-72, Cl. 204-14.
- Spatz, Sydney M.; Bailey, Maurice E.; and Evans, Francis E., to Allied Chemical Corporation. Vicinal toluenediamine mixtures. 3,637,514, 1-25-72, Cl. 252-182.
- Spatz, William L. Spring loaded caster for shop stools bar stools and the like. 3,699,609, 10-24-72, Cl. 16-44.000.

- Spaulding, David Adams, to Bell Telephone Laboratories, Incorporated. Recursive automatic equalizer. 3,646,480, 2-29-72, Cl. 333-18.
- Spaulding, David B., to Novatek, Inc. Method and apparatus for vehicle control and guidance. 3,668,624, 6-6-72, Cl. 340-32.000.
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Ricciello, Michael; and Kreitmayer, Harry A., 3,660,199.
Waldron, Linwood J.; and Hastings, William J., 3,659,913.
- Spaulding, Richard S.: *See—*
Sothen, Andrew G.; and Spaulding, Richard S., 3,643,919.
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- Spauszus, Siegfried, to Kienzle Apparate G.m.b.H. Apparatus for automatically evaluating recordings on a record carrier. 3,655,948, 4-11-72, Cl. 235-61.9.
- Spaw, Eugene S.; McGrath, Paul F.; and Otto, Stanley W., to Hallmark Cards, Incorporated. Means including two die sets for embossing and applying foil to a sheet. 3,669,014, 6-13-72, Cl. 101-3.000.
- Speakman, Edwin L., to Standard Brands Incorporated. Cyanoethyl starch. 3,689,361, 9-5-72, Cl. 195-31.000.
- Speakman, Edwin L., to Standard Brands Incorporated. Starch product. 3,705,046, 12-5-72, Cl. 106-213.000.
- Speakman, John D., to Metalphoto Corporation. Method and apparatus for forming images in anodized sheet metal. 3,702,581, 11-14-72, Cl. 95-89.000.
- Spear, Merton R., Jr., to Xerox Corporation. Web cutting and feeding apparatus. 3,639,053, 2-1-72, Cl. 355-13.
- Spear, Merton R., Jr., to Xerox Corporation. Copying apparatus. 3,645,615, 2-29-72, Cl. 355-3.
- Spear Systems, Inc.: *See—*
Speer, Billy L., 3,693,562.
- Spearhead, Inc.: *See—*
Hardway, Edward V., Jr., 3,703,893.
- Spearin, Walter E.; and Vanderhei, Harold S., to Combined Paper Mills, Inc. Method for controlling varying liquid penetration of a continuous paper web. 3,676,184, 7-11-72, Cl. 117-68.000.
- Spearing, Michael Henry: *See—*
Weaver, David R.; Emery, Anthony G.; and Spearing, Michael Henry, 3,659,111.
- Spears, Esten W., Jr., to General Motors Corporation. Rotor blade retainer. 3,656,865, 4-18-72, Cl. 416-221.
- Spears, Harry L. Slide valve pump. 3,697,199, 10-10-72, Cl. 417-498.000.
- Spears, Joseph F. Motor protection control apparatus. 3,688,157, 8-29-72, Cl. 317-13.000.
- Speceley, Gene Donald: *See—*
Widdowson, Roy; and Speceley, Gene Donald, 3,672,432.
- Specht, Theodore R.: *See—*
Morris, Louis; and Specht, Theodore R., 3,678,428.
- Specht, Wolfgang; and Bertram, Bernd, to S.M.B. Sondermaschinen GmbH. Printing unit interrupter for rotary printing presses. 3,635,160, 1-18-72, Cl. 101-247.
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Hargreaves, Edward William, 3,680,447.
- Special Metals Corporation: *See—*
Boesch, William J., 3,653,987.
Boesch, William J., 3,667,938.
Boesch, William J.; Darmara, Fahih N.; and Warmuth, Francis J., 3,707,409.
- Speck, Charles D. Idler roller device for troughed conveyor belts. 3,648,824, 3-14-72, Cl. 198-192.
- Speck, Walter: *See—*
Speck, Willi; and Speck, Walter, 3,685,919.
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Speck, Willi; and Speck, Walter, 3,685,919.
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- SPECO, Inc.: *See—*
Mussel, Clifford L., 3,653,599.
- 'Specta' Special-Chemicalien Industrie Ter Apel N.V.: *See—*
Steenbergen, Godefridus F., 3,658,883.
- Spector, Berdine E. Color familiarization game. 3,707,287, 12-26-72, Cl. 273-157.000.
- Spector, Herman. Coating and forming. 3,676,174, 7-11-72, Cl. 117-26.000.
- Spector, Sidney. Catecholamine antigens and antibodies specific therefor. 3,704,282, 11-28-72, Cl. 260-78.00a.
- Spector, Walter: *See—*
Lachman, Leon; Reiner, Roy H.; Shami, Elie; and Spector, Walter, 3,676,557.
- Spectra Instruments, Inc.: *See—*
Morrone, Ross F., 3,659,332.
- Spectra Metrics, Incorporated: *See—*
Elliott, William G., 3,658,423.
Elliott, William G., 3,658,424.
- Spectra Physics, Inc., mesne: *See—*
Hercher, Michael; and Pike, Harold Alan, 3,707,687.
- Spectra-Mat, Inc.: *See—*
Cronin, Leo J., 3,656,020.
- Spectra-Strip Corporation: *See—*
Webster, Adrian D., 3,636,991.
- Spectra-Tech Corporation: *See—*
Leach, Sam L., 3,673,450.
- Spectral Data Corporation: *See—*
Yost, Edward F., Jr., 3,700,438.
Yost, Edward F., Jr., 3,703,133.
- Spectral Dynamics Corporation: *See—*
Davis, Robert D., 3,691,394.
- Spectral Dynamics Corporation of San Diego: *See—*
Pollard, Billy G., 3,702,436.
- SpectraMetrics, Incorporated: *See—*
Elliott, William G., 3,651,322.
- Spectrol Electronics Corporation: *See—*
DeLong, Robert J.; and Gerwitz, Paul F., 3,648,217.
Gerwitz, Paul F., 3,679,848.
Hubert, Gustav, 3,652,970.
Lahm, James; and Hill, Robert D., Jr., 3,703,699.
- Spectrum Infrared, Inc.: *See—*
Tomsic, Raymond F., 3,655,942.
- Spedden, Henry R.; Apps, John A.; and Lowe, Donald F., to Kennecott Copper Corporation. Reduction of ferric ions in cyclic process of leaching and precipitation of copper. 3,669,651, 6-13-72, Cl. 75-104.000.
- Spedden, Henry Rush; and Malouf, Emil Edward, to Kennecott Copper Corporation. Process for precipitating copper from solution. 3,634,071, 1-11-72, Cl. 75-109.
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- Speece, Richard E. Downflow bubble contact aeration apparatus and method. 3,643,403, 2-22-72, Cl. 55-53.
- Speech, Steven R.; Opie, Joseph W.; and Bridge, John A., to General Mills, Inc. Beverage mix. 3,647,472, 3-7-72, Cl. 99-34.
- Speed Fastener, Inc.: *See—*
De Caro, Charles J., 3,688,964.
- Speed Gage & Tool Company: *See—*
Speed, Kenneth O., 3,636,914.
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- Speed, Roy A. Bedding support apparatus. 3,680,158, 8-1-72, Cl. 5-319.000.
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- Speed-O-Print Business Machines Corporation: *See—*
Hyosaka, Alfred M.; Giebelhausen, Charles W.; and Kaufman, Arthur L., 3,669,535.
Marzec, Casimir C.; and Goepfrich, Rudolph A., 3,660,798.
Samuels, Abe; Mueller, Rudolph C.; and Marzec, Casimir C., 3,682,550.
Samuels, Abe; and Mueller, Rudolph C., 3,684,280.
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Good, Paul F., 3,688,682.
- Speedcranes Limited: *See—*
Morrison, Robert, 3,685,669.
- Speedie, Robert. Cable anchor. 3,633,248, 1-11-72, Cl. 24-73.
- Speedtrack Inc.: *See—*
Konstant, Anthony N., 3,659,723.
Konstant, Anthony N., 3,679,067.
Weider, John J., 3,638,981.
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Jenkin, Keith R., 3,639,791.
- Speekman, Bernardus Willebrordus, to U.S. Philips Corporation. Electric resistance heating cable. 3,646,322, 2-29-72, Cl. 219-549.
- Speelman, Irving A., to Propper Manufacturing Co., Inc. Method and apparatus for manufacturing and packing lancets. 3,665,672, 5-30-72, Cl. 53-23.
- Speelman, Irving A., to Propper Manufacturing Co., Inc. Bevelled edge microscope slide. 3,672,745, 6-27-72, Cl. 350-92.000.
- Speelman, Irving A., to Propper Manufacturing Co., Inc. Instrument with replaceable tube. 3,675,486, 7-11-72, Cl. 73-401.000.
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- Speer, D. C., Construction Co.: *See—*
Speer, Donald C., 3,665,822.
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- Speer, Robert J.: *See—*
Hill, Joseph M.; and Speer, Robert J., 3,637,462.
- Speers, James R., to Continental Rubber Works. Vehicle bed liner. 3,652,123, 3-28-72, Cl. 296-28.

- Speers, Robert Ray, to RCA Corporation. Method for forming isolated semiconductor devices. 3,695,956, 10-3-72, Cl. 156-11.000.
- Spei, Brigitte: *See—*
Wagenknecht, Rudolf; Gotta, Hans; Spei, Brigitte; and Gottwald, Karl-Heinz, 3,681,148.
- Speich, Pier Gianni. Clear viewing screens. 3,688,081, 8-29-72, Cl. 219-203.000.
- Speicher, Charles A.: *See—*
Magill, Peter J.; McCurry, Robert E.; and Speicher, Charles A., 3,651,498.
- Speicher, Charles G., to International Business Machines Corporation. Apparatus for exposing photoresist in cylinders. 3,645,178, 2-29-72, Cl. 95-1.
- Speicher, Edwin W., to Cunningham, M. E., Company. Apparatus for remotely rotating a marking wheel on a marking device. 3,636,871, 1-25-72, Cl. 101-95.
- Speicher, Edwin W.; and Fry, Charles E., Jr., to Cunningham, M. E., Company. Position indicator for a multiple character marking device. 3,654,860, 4-11-72, Cl. 101-110.
- Speicher, Ellis, III: *See—*
Carney, Murray C.; and Speicher, Ellis, III, 3,667,700.
- Speidel, Dieter: *See—*
Reichelt, Walter; Ruthardt, Konrad; and Speidel, Hermann, 3,672,850.
- Speidel, Edward O.: *See—*
Kizer, Donald E.; Smith, Roy A.; and Speidel, Edward O., 3,662,042.
- Speidel, Helmut: *See—*
Reichelt, Walter; Ruthardt, Konrad; and Speidel, Hermann, 3,672,850.
- Speidel, Hermann: *See—*
Reichelt, Walter; Ruthardt, Konrad; and Speidel, Hermann, 3,672,850.
- Speidel, Rosemarie Elisabeth, nee Rupprecht: *See—*
Reichelt, Walter; Ruthardt, Konrad; and Speidel, Hermann, 3,672,850.
- Speidel, Thomas O. P.; Trotter, Edward E.; and Shefsiek, Paul K., to Thermo Electron Corporation. Infrared heating surface. 3,663,798, 5-16-72, Cl. 219-464.
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- Speitel, Rene; and Hegnauer, Max R., to Arfa Rohrenwerke A.G. Coatings containing polyvinyl chloride, epoxy resins, and esters of polyhydric alcohols having at least three acrylate groups. 3,657,381, 4-18-72, Cl. 260-836.
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- Speller Frank N., Jr., to Clark, Forrester A. Processes for secondarily recovering oil. 3,675,715, 7-11-72, Cl. 166-256.000.
- Spellman, Gordon Bar: *See—*
Quaai, John A.; and Spellman, Gordon Bar, 3,693,120.
- Spellman, Vernon C., to Optical Coating Laboratory, Inc. Source for evaporating materials. 3,684,268, 8-15-72, Cl. 266-39.000.
- Spells, Joseph W., Jr.: *See—*
Ruthenberg, Ross E.; and Spells, Joseph W., Jr., 3,646,397.
- Spemog AG: *See—*
Brunner, Josef Alphons, 3,690,622.
- Spenadel, Lawrence: *See—*
Bieber, Herman; Spenadel, Lawrence; and Coddington, David M., 3,687,746.
- Higgins, John J.; Berejka, Anthony J.; and Spenadel, Lawrence, 3,654,005.
- Spenadel, Lawrence; Hall, Homer J.; and Kirshenbaum, Isidor, to Esso Research and Engineering Company. Method for making cellular rubbery polymer. 3,697,455, 10-10-72, Cl. 260-2.50r.
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Ingram, Brian; Spence, Douglas Roy; and Cochrane, Robin Adam, 3,690,738.
- Spence, Hilton Wayne: *See—*
Matzen, Walter T.; and Spence, Hilton Wayne, 3,668,407.
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Christian, Andrew J.; Spence, John H.; and Han Yang, Tung, 3,631,811.
- Ferris, Ray L.; and Spence, John H., 3,647,248.
- Yang, Tung H.; and Spence, John H., 3,677,198.
- Spence, John R., to North American Rockwell Corporation. Bootstrapped inverter memory cell. 3,699,539, 10-17-72, Cl. 340-173.00r.
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- Spence, Peter: *See—*
Chilman, John Alfred; Loynes, Alfred Herbert Walter; and Spence, Peter, 3,637,323.
- Spence, Peter, to Dowty Technical Developments Limited. Hydraulic apparatus. 3,690,789, 9-12-72, Cl. 417-203.000.
- Spence, Wayman R., to Stryker Corporation. Cushion structure. 3,663,973, 5-23-72, Cl. 5-348.
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- Spence, William George. Swivelling wheel suspension for vehicle. 3,689,101, 9-5-72, Cl. 280-96.20r.
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Stancell, Arnold F.; and Spencer, Arthur T., 3,657,113.
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- Spencer, Brian J.: *See—*
Lynnworth, Lawrence C.; and Spencer, Brian J., 3,633,424.
- Spencer, Dale A.; and Barton, William M., Jr., to Cipher Data Products, Inc. Digital cassette magnetic tape recorder and reproducer. 3,707,707, 12-26-72, Cl. 340-174.10b.
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Kronman, Seymour; Spencer, Dana E.; and Henderson, Larry D., 3,695,141.
- Spencer, David R., to EG & G, Inc. Data comparison system for listing verification of multiple digit data words. 3,662,340, 5-9-72, Cl. 340-146.2.
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- Spencer, Edward Guerrant: *See—*
Boback, Andrew Henry; Smith, David Herbert; Spencer, Edward Guerrant; and Van Uiter, Le Grand Gerard, 3,646,529.
- Spencer, Francis T., to West Point-Pepperell, Inc. Apparatus for preparing flocked fabric. 3,667,665, 6-6-72, Cl. 222-412.000.
- Spencer, Francis T., to West Point-Pepperell, Inc. Grid for producing an electrostatic field. 3,698,357, 10-17-72, Cl. 118-636.
- Spencer, Gary E.: *See—*
Hutchins, Everett C.; Spencer, Gary E.; and Tucker, Marion K., 3,685,923.
- Spencer, Gilbert W.: *See—*
Martin, Paul B., Jr.; and Spencer, Gilbert W., 3,688,924.
- Spencer, Glenn S., to Bendix Corporation. The One-way time delay electromagnetic clutch. 3,704,769, 12-5-72, Cl. 192-52.000.
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Nystrand, Ernst Daniel; Spencer, Harvey J.; and Ziegelhoffer, Paul, 3,640,050.
- Spencer Hydraulic, Inc.: *See—*
Hahn, Rea I.; and Broberg, Robert W., 3,648,733.
- Spencer, John Gordon, to Northern Electric Company, Limited. Delay equalizing amplifier having bridge circuit input. 3,701,955, 10-31-72, Cl. 330-21.000.
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- Spencer, Jordan L. Flow control system. 3,662,598, 5-16-72, Cl. 73-194.00e.
- Spencer, Keith B.: *See—*
Brockbank, Peter A.; Spencer, Keith B.; and Greaves, Reginald Ian, 3,657,952.
- Spencer, Louis L.: *See—*
Reynolds, Rolfe E.; and Spencer, Louis L., 3,646,899.
- Spencer, Merrill P. Electromagnetic flowmeter apparatus. 3,696,674, 10-10-72, Cl. 73-194.0em.
- Spencer, Owen C. Wire mesh working apparatus. 3,688,810, 9-5-72, Cl. 140-107.000.
- Spencer, Paul E.: *See—*
Palmer, Oakley Butler; and Spencer, Paul E., 3,693,483.
- Spencer, Paul W., to Northeast Burn-Zel Corporation. Ash monitor and overcharge protection control system for incinerator. 3,682,116, 8-8-72, Cl. 110-8.00r.
- Spencer, Phillip B.: *See—*
Drutchas, Gilbert H.; Berman, George A.; and Spencer, Phillip B., 3,679,329.
- Spencer, Richard O.: *See—*
Taylor, William W.; and Spencer, Richard O., 3,654,660.
- Spencer, Robert F. Toy glider. 3,680,253, 8-1-72, Cl. 46-79.000.
- Spencer, Robert Graham, to Bell Telephone Laboratories, Incorporated. Adaptive reading circuit for a disk memory. 3,646,520, 2-29-72, Cl. 340-172.5.
- Spencer, Roland R.: *See—*
Bickoff, Emanuel M.; Spencer, Roland R.; and Kohler, George O., 3,684,520.
- Spencer, Samuel Binford, to Johns-Manville Corporation. Method of forming coated fibers. 3,673,027, 6-27-72, Cl. 156-167.000.
- Spencer Turbine Company, The: *See—*

- Bailey, William B., 3,685,530.
- Hunt, David H., 3,672,616.
- Spencer, William J. Bearing means for a bolt action of a gun. 3,636,648, 1-25-72, Cl. 42-16.
- Spencer, William L.; and Juenger, Richard D., to Curlee Clothing Company. Garment package. 3,687,277, 8-29-72, Cl. 206-7.000.
- Spencer, William M.: *See—*
La Falce, Robert A.; and Spencer, William M., 3,689,887.
- Spencer-Kennedy Laboratories, Inc.: *See—*
Shekel, Jacob; and Ray, George H., Jr., 3,639,840.
- Spencer-Mitchell Co., The: *See—*
Brody, Irwin L.; and Brody, Bruce S., 3,664,705.
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- Sperandio, Gottfried. Device for feeding objects between two points. 3,691,447, 9-12-72, Cl. 318-68.000.
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- Speransky, Jaroslav; and Cerny, Harry E., to Microdot, Inc. Electrohydraulic caliper disc brake. 3,665,232, 5-23-72, Cl. 310-77.
- Speranza, George P.: *See—*
Lesesne, Sherman D.; and Speranza, George P., 3,645,945.
- Speranza, George P.; and Cuscurida, Michael, to Jefferson Chemical Company, Inc. 4,4'-Dimorpholinodithiyl ether catalyst for polyurethane preparation. 3,645,925, 2-29-72, Cl. 260-2.5.
- Speranza, George Phillip: *See—*
Klein, Howard Paul; Schulze, Heinz; and Speranza, George Phillip, 3,654,183.
- Sperber, Heinrich: *See—*
Borchmann, Joern; Fuchs, Hugo; Goeschel, Gert; Sander, Bruno; and Sperber, Heinrich, 3,689,619.
- Fuchs, Hugo; and Sperber, Heinrich, 3,637,751.
- Sander, Bruno; and Sperber, Heinrich, 3,639,630.
- Sander, Bruno; Schmidt, Franz; and Sperber, Heinrich, 3,641,196.
- Sander, Bruno; and Sperber, Heinrich, 3,644,646.
- Sander, Bruno; Sperber, Heinrich; Pommer, Ernst-Heinrich; Clad, Werner Helmut; and Wittmann, Otto, 3,651,006.
- Sperber, Nathan: *See—*
Sherlock, Margaret H.; and Sperber, Nathan, 3,674,832.
- Sherlock, Margaret H.; and Sperber, Nathan, 3,689,653.
- Sperber, Solomon. Game simulating aspects of society. 3,643,958, 2-22-72, Cl. 273-134.
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- Spergel, Philip; and Gaines, Stanley L., to Instrumentation Laboratory, Inc. Fluid handling apparatus. 3,664,178, 5-23-72, Cl. 73-53.000.
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- Sperl, Robert J. Metal plating product and process. 3,677,908, 7-18-72, Cl. 204-38.00b.
- Sperline, Paul D.: *See—*
Savage, Paul E.; and Sperline, Paul D., 3,680,539.
- Sperling, Arthur W., to Hogan Faximile Corporation. Non-blocking electrolytic recording medium. 3,632,430, 1-4-72, Cl. 117-201.
- Sperner, Franz: *See—*
De Bie, Edouard; Tougarinoff, Boris; Sperner, Franz; and Moll, Justus, 3,689,046.
- Sperry, Charles R., to Instapak Corporation. Liquid mixing and dispensing apparatus. 3,687,370, 8-29-72, Cl. 239-112.000.
- Sperry, Philip R.: *See—*
Caule, Elmer J.; Sperry, Philip R.; Pryor, Michael J.; and Ford, James A., 3,698,964.
- Sperry, Philip R.; and Gullotti, Damian V., to Olin Corporation. Process for preparing aluminum base alloys. 3,642,542, 2-15-72, Cl. 148-12.7.
- Sperry Rand Australia Limited: *See—*
Cusveller, John, 3,688,644.
- Sperry Rand Corporation: *See—*
Allen, Terry S.; Lane, Lynn R.; and Swartz, Harold Lee, 3,640,137.
- Anstee, Leon L., 3,641,754.
- Arlen, David; Guido, Louis A.; and Quinn, Lawrence P., 3,707,634.
- Armstrong, James B., 3,666,911.
- Armstrong, James B.; Schott, Dan J.; and Warne, Leland C., 3,675,066.
- Arndt, Allen L.; and Kaszynski, Albert Z., 3,657,492.
- Arthur, Richard J., 3,697,987.
- Ashley, James R.; and Palka, Frank M., 3,675,124.
- Baker, Donald H.; and Kallio, Frank H., 3,678,593.
- Baker, Donald H.; and Brickner, David R., 3,683,668.
- Baker, Donald H.; Brickner, David R.; and Manning, Kenzel P., 3,691,643.
- Banes, Nathan M., Jr.; and Bottcher, James H., 3,636,395.
- Barnes, Billy W., 3,671,933.
- Bauer, Leo, 3,696,836.
- Best, Albert M.; and Anderson, Keith B., 3,675,802.
- Binkley, Carl R.; and Farrell, Robert G., 3,646,968.
- Blane, Henry R., 3,704,421.
- Breslin, Mary Anne; Cogar, George R.; Lee, Charles A.; Neddenriep, Donald O.; Romeo, Albert J.; Sevilla, Ernesto G.; and Sekse, Torkjell, 3,670,144.
- Brickner, David R.; and Schell, Sidney T., 3,705,980.
- Brown, Richard R., 3,634,658.
- Carpentier, Richard A.; Shriver, Spencer A.; and Smith, Richard C., 3,649,906.
- Casaday, William M.; and Fisher, Robert L., 3,667,011.
- Case, John S.; and Whitfield, Edwin W., 3,685,012.
- Cashman, Robert L., 3,694,805.
- Caulfield, Henry John; McMahon, Donald H.; and Soref, Richard A., 3,635,538.
- Caulfield, Henry John, 3,674,331.
- Chen, Chung-Ho; and Thomas, Roy D., 3,656,003.
- Chen, Chung-Ho, 3,656,009.
- Chmura, Bernard J., 3,643,682.
- Chondzinski, Edward J., 3,693,508.
- Chow, Woo F., 3,697,964.
- Clift, Charles E.; and Evans, David G., 3,636,550.
- Clift, Charles E., 3,671,899.
- Colby, Kenneth G., 3,697,986.
- Connett, Donald C.; Olsen, Gerald N.; and Lonnemo, Kurt R., 3,646,959.
- Conway, Patrick H., 3,656,109.
- Cook, Charles E., 3,654,554.
- Court, Kenneth, 3,631,763.
- Court, Kenneth, 3,650,107.
- Crooke, Arthur W.; and Hanna, Michael E., Jr., 3,633,017.
- Crosby, Donald P., 3,670,228.
- Cubert, Jack S., 3,654,486.
- Curnow, John W., 3,683,958.
- Davenport, Arthur B., 3,676,697.
- Demci, Michael; and Ihasz, Richard, 3,672,049.
- Dendy, Joe B.; and Liden, Sam P., 3,633,002.
- Dendy, Joe B.; and Transier, Kent G., 3,654,443.
- Devlin, Bernard T.; and Poland, William F., 3,652,835.
- Dickinson, Lawrence C., 3,631,992.
- Dickinson, Lawrence C., 3,643,313.
- Dunfield, John C. G., 3,667,016.
- Dunfield, John C. G., 3,706,923.
- Edstrom, Woodrow O.; and Norling, Charles H., 3,673,669.
- Ellis, Gaylord O.; and Halat, John A., 3,698,286.
- Erspermer, James R.; and Snyder, George W., 3,646,537.
- Espen, David A., 3,705,344.
- Farrell, Robert G., 3,669,147.
- Ferguson, Donald C.; Lynch, Frederick W.; and Simons, Gerald F., 3,643,146.
- Fisher, Raymond E., 3,635,359.
- Fleming, Robert F., Jr., 3,685,009.
- Ford, Dixon A., 3,665,596.
- Francini, Joseph Pirra; Braxton, James Lopez, Jr.; Lewis, Vera Gloria; McPherson, Frank Henderson; Rosenberg, Daniel; and Sekse, Torkjell, 3,674,988.
- Freimuth, John H.; and Hurlburt, Joseph C., 3,696,594.
- Freyheit, Paul J.; and Lustig, Claude D., 3,697,797.
- Gerlach, Le Roy E.; Johnson, Gordon P.; and Tandeski, David A., 3,669,262.
- Gluck, Julius; and Lara, Raul, 3,696,908.
- Goldberg, Gerald K., 3,633,993.
- Goldberg, Norman; and Newman, Roger, 3,651,504.
- Gowie, John D., 3,652,189.
- Grace, Martin I., 3,646,357.
- Grace, Martin I., 3,646,581.
- Grace, Martin I.; and Pratt, Harold J., Jr., 3,673,510.
- Greiner, James G.; and Brelsford, John E., 3,704,028.
- Grey, Donald M., 3,637,094.
- Grey, Donald M.; Butler, Lee D.; Welker, Jerry W.; and Crane, Jack W., 3,638,808.
- Grey, Donald M.; and Cook, Albert C., 3,662,900.
- Grey, Donald M., 3,664,519.
- Grey, Donald M.; and Welker, Jerry W., 3,700,119.
- Groeber, Eugen, 3,698,538.
- Grundtner, Matthias J.; and Melink, George E., 3,662,122.
- Gustafson, Roy H. J. A., 3,665,884.

- Hallman, Russell H.; Keir, John B.; and Patriotto, Lawrence J., 3,650,425.
 Hersey, Gerald W., 3,633,534.
 Hewitt, Fred G., 3,639,744.
 Hoeck, William N., 3,636,480.
 Holloway, William W., Jr.; and Kestigian, Michael, 3,632,521.
 Hurlburt, Joseph C., 3,660,971.
 Hurlburt, Joseph C., 3,664,101.
 Hurlburt, Joseph C.; McCarty, Horace G.; and Locati, Norman C., 3,698,167.
 Hurlburt, Joseph C., 3,699,757.
 Hurlburt, Joseph C., 3,700,257.
 Hurlburt, Joseph C.; and Freimuth, John H., 3,706,186.
 Jeffery, Robert W.; Brown, Robert A., Jr.; and Cullen, Allen F., 3,673,978.
 Johnson, Wesley R., 3,637,270.
 Johnson, Wesley R.; and Hamel, Jon J., 3,643,243.
 Kallio, Frank H., 3,662,162.
 Kanitz, Roy Edwin, 3,640,596.
 Kaplan, Robert P., 3,667,382.
 Kartchner, Earl M.; Van Horn, Gary R.; and Wallace, Richard A., 3,665,472.
 Kaske, Alan D.; and Sauter, Gerald F., 3,696,349.
 Keatinge, Gerald R., 3,635,183.
 Kesselring, Donald J.; and Mulera, Thomas G., 3,641,679.
 Koch, Earl E.; and Shriver, Joe E., 3,699,754.
 Koehler, Howard A., 3,684,879.
 Koters, Paul Louis Marie, 3,633,723.
 Kreitner, Frederick J., 3,698,345.
 Kriz, Jacob A.; and Lerner, Seymour D., 3,648,225.
 Krochski, Thomas L.; Meddaugh, Samuel A.; and Staubus, John W., 3,666,968.
 Kroger, Harry, 3,684,901.
 Lanning, Walter C., 3,652,840.
 Lanning, Walter C., 3,652,841.
 Le Febre, David A., 3,689,754.
 Lease, Robert J., 3,643,550.
 Lee, John L., 3,632,050.
 Lifschitz, Joshua, 3,698,079.
 Lincoln, Andrew J.; and Menger, Karl S., 3,675,000.
 Lins, Stanley J., 3,660,826.
 Lins, Stanley J.; and Nelson, Charles J., 3,699,034.
 Locke, Robert A., 3,651,914.
 Lucas, William J., 3,666,346.
 Lustig, Claude D., 3,662,214.
 Lynch, Frederick W.; and Simons, Gerald F., 3,651,494.
 Macek, Warren M., 3,642,375.
 Macek, Warren M., 3,649,931.
 Macek, Warren M.; and Wang, Chao Chen, 3,697,181.
 Mack, Thomas W.; Peretto, David P.; and Allen, Alden W., 3,643,239.
 Maloney, William T., 3,670,305.
 Mann, William W., 3,638,816.
 Mayberry, Billy T.; and Sirrine, Edwin B., 3,668,701.
 McCartney, Earl J., 3,707,721.
 McCarty, Horace G.; Anderson, Keith B.; and Stoltzfus, David D., 3,661,287.
 McMahon, Donald H., 3,635,539.
 McMahon, Donald H., 3,676,798.
 McMahon, Donald H., 3,704,930.
 McMahon, Donald Howland; and Maloney, William Thomas, 3,638,232.
 McMahon, Donald Howland; and Franklin, Allen Raymond, 3,673,596.
 Metz, Louis C., 3,675,234.
 Metz, Louis C., 3,688,303.
 Miller, Harry, 3,691,356.
 Minden, Henry T.; and Donahue, John A., 3,697,330.
 Murray, James J.; and Mueller, Jacob, 3,682,185.
 Nelson, Raymond A.; and Poland, William F., 3,635,428.
 Niemiec, Albin J.; and Pettibone, Raymond B., 3,645,654.
 Niemirovich, John, Jr., 3,707,039.
 O'Connor, Maurice J.; and Davidson, Donald J., 3,675,676.
 Oleksiak, Robert E., 3,706,976.
 Oliver, Kenneth L., 3,676,818.
 Oliver, Kenneth L., 3,703,267.
 Ostergren, William F.; and Hurlburt, Joseph C., 3,654,749.
 Pataki, Andrew B.; and Perry, Richard F., 3,635,098.
 Pataki, Andrew B., 3,664,203.
 Paul, Maynard C.; Sauter, Gerald F.; and Oberg, Paul E., 3,683,407.
 Pedersen, Poul K.; Wagstaff, Robert A.; and Waldrop, Thomas W., 3,678,772.
 Pettibone, Raymond B.; and Niemiec, Albin J., 3,680,990.
 Pettit, Robert Halsey, 3,653,403.
 Pettit, Robert Halsey, 3,683,747.
 Quermann, Thomas R., 3,677,097.
 Rafuse, Mary J., 3,675,987.
 Rakes, Rodney G., 3,633,084.
 Rakes, Rodney G., 3,643,143.
 Rakes, Rodney G., 3,667,018.
 Rakes, Rodney G., 3,671,833.
 Rauschelbach, Paul A., 3,688,175.
 Rawls, John L., Jr., 3,662,212.
 Rawls, John L., Jr., 3,707,647.
 Reed, Clyde E., 3,643,325.
 Reid, Gilbert R., 3,656,127.
 Ricci, Vincent C.; and Simon, William F., 3,681,615.
 Riggs, Robert F., 3,670,330.
 Robbins, Kenneth W., 3,662,316.
 Roberts, Arthur S.; and Craig, Orlyn W., 3,665,212.
 Robinson, Gerald H.; and Strenglein, Harry F., 3,707,688.
 Robinson, Robert W., 3,706,934.
 Rocks, Eugene S.; and Poff, Thomas J., 3,641,400.
 Roeder, Robert S., 3,634,767.
 Roeder, Robert S., 3,653,045.
 Ross, Gerald F., 3,646,478.
 Ross, Gerald F.; and Lamensdorf, David, 3,659,203.
 Ross, Gerald F.; and Nicolson, Alexander M., 3,693,080.
 Ross, Gerald F.; and Maguire, Hugh C., 3,696,359.
 Rowland-Hill, Edward W.; and Margerum, Edwin O., 3,696,815.
 Rowland-Hill, Edward William; and Margerum, Edwin O., 3,631,862.
 Rowland-Hill, Edward William, 3,645,270.
 Rowland-Hill, Edward William, 3,648,710.
 Rowland-Hill, Edward William, 3,664,100.
 Rowland-Hill, Edward William, 3,669,121.
 Rowland-Hill, Edward William, 3,669,122.
 Rowland-Hill, Edward William; and McCarty, Horace G., 3,669,125.
 Rowland-Hill, Edward William, 3,670,739.
 Rucker, Charles T., 3,662,285.
 Sadler, Loren G.; and Waldrop, Thomas W., 3,643,720.
 Schaufelberger, Arthur H., 3,697,998.
 Schott, Dan J., 3,662,352.
 Sewell, Frank A., Jr., 3,648,258.
 Seymour, Shaun A.; and Smith, Hugh E., 3,658,137.
 Sheehan, Ronald T.; Cowan, Everett C.; and Hyman, Myles, 3,665,688.
 Shriver, Joe E., 3,679,015.
 Sigmon, Bernard E., 3,644,843.
 Sigmon, Bernard E., 3,704,429.
 Simons, Gerald F.; Lynch, Frederick W.; and McKown, Gary C., 3,664,234.
 Smith, Warren H., 3,645,611.
 Soref, Richard A., 3,675,988.
 Stiefvater, Thomas L.; Greiner, James G.; Hale, John K.; and Waldrop, Thomas W., 3,664,105.
 Strege, Robert J., Sr., 3,634,746.
 Strenglein, Harry F., 3,676,865.
 Strenglein, Harry F., 3,683,381.
 Strenglein, Harry F., 3,694,803.
 Strock, Richard R., 3,691,987.
 Swygert, Wilbert E., Jr., 3,691,404.
 Tetrick, Elton E., 3,697,711.
 Thaxter, James B., 3,652,145.
 Thomas, William G., 3,695,205.
 Tierney, John Robert, 3,693,758.
 Tolmie, Robert J., 3,648,367.
 Tolmie, Robert J., 3,673,001.
 Veron, Harry, 3,670,201.
 Volosin, Michael J.; and Flowers, Theodore R., 3,646,316.
 Warne, Leland C., 3,675,065.
 Webb, Bryant F.; and Schwalm, Bruce D., 3,640,473.
 Weinstein, Warren D., 3,675,475.
 Wesner, Charles R., 3,676,648.
 White, John M., 3,647,519.
 Williams, Thomas R., 3,691,535.
 Wilson, George D., 3,631,592.
 Wilt, Robert E., 3,693,095.
 Worden, Dale S., 3,633,902.
 Xenakis, James A.; Zechnowitz, Alvin L.; and Strazzulla, Raymond L., 3,683,440.
 Yowell, Gordon H., 3,644,067.
 Yowell, Gordon H., 3,672,793.
 Zechnowitz, Alvin L.; and Xenakis, James A., 3,662,332.
 Sperry Rand Corporation, mesne: See—
 Helms, Clifford J.; and Papadopoulos, Stelios B., 3,666,977.
 Helms, Clifford J.; McMillan, Norman; and Papadopoulos, Stelios B., 3,700,855.
 Huettner, Clarence, 3,697,965.
 Nagy, Stanley S.; and Humphrey, Floyd B., 3,702,239.
 Potash, Hanan, 3,668,532.
 Sperry Rand France S.A.: See—
 D'Acremont, Alain F.; Chaumont, Gerard; and Lefevre, Alain P., 3,636,869.
 Sperry Rand Limited: See—
 Jones, Patrick Ludlow Fleming; and Watson, Robert, 3,663,112.
 Levy, Joseph Peppo, 3,681,257.
 Meek, Nigel W.; and Morris, Robert S., 3,656,284.
 Ridgway, Peter Charles; and Callcut, Brian Charles, 3,634,837.

- Sperry, Russell L., to Petroleum Solids Control, Inc. Drilling fluids. 3,654,164, 4-4-72, Cl. 252-8.5.
 Sperry Sun Well Surveying Company: See—
 Lichte, Henry P., Jr., 3,633,280.
 Lindsey, James M., 3,638,235.
 Lindsey, James M., 3,699,510.
 Lindsey, James M.; and Stell, Thomas W., 3,703,832.
 Lindsey, James M., 3,704,406.
 Lindsey, James M., 3,704,407.
 Marshall, Gailen D., 3,653,468.
 Spes, Hellmuth: See—
 Eck, Herbert; Schwarzbauer, Hans; and Spes, Hellmuth, 3,647,871.
 Eck, Herbert; Heckmaier, Joseph; Prigge, Helmut; and Spes, Hellmuth, 3,702,339.
 Kunstle, Gerhard; Spes, Hellmuth; and Trommet, Alfred, 3,637,840.
 Spescha, Gelli; Martini, Karlheinz; and Sonderegger, Hans Conrad, to Kistler Instrumente AG. Force and moment arrangements. 3,640,130, 2-8-72, Cl. 73-133.
 Spescha, Gelli A., to Kistler Instrumente AG. Pressure transducer. 3,672,223, 6-27-72, Cl. 73-406.000.
 Spescha, Gelli Anton: See—
 Lamparter, Hansruedi; and Spescha, Gelli Anton, 3,686,460.
 Spescha, Gelli Anton, to Elektrophysikalische Anstalt Bernhard Berghaus. Method of monitoring the electrical behaviour of a high-intensity glow discharge for metallurgical processes. 3,681,662, 8-1-72, Cl. 317-31.000.
 Speth, Winfried; and Westermayer, Rudolf, to Siemens Aktiengesellschaft. Closed loop regulating system for a control circuit with a control drive. 3,633,086, 1-4-72, Cl. 318-489.
 Speth, Winfried, to Siemens Aktiengesellschaft. Closed loop control system with automatic variation of its regulating feedback amplification. 3,655,954, 4-11-72, Cl. 235-150.1.
 Spethmann, Donald H.: See—
 Hogel, Joseph E.; and Spethmann, Donald H., 3,638,857.
 Spethmann, Donald H., to Honeywell Inc. Pneumatic control system. 3,692,240, 9-19-72, Cl. 236-82.000.
 Spetsialnoe Konstruktorskoe bjuro khimizatsii narodnogo khozaistva Latvskoi SSR: See—
 Fridman, Uriel Grigorovich; Mor, Gera Sergeevna; Skadynsh, Rolands Bernkhardovich; and Kuzmenko, Ivan Emeljanovich, 3,691,885.
 Spetsialnoe Konstruktorskoe Bjuro Transneftavtomatika: See—
 Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Kantor, Iliia Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhaneldze, Vazna Venediktovich; Topolyanky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, 3,689,010.
 Spetsialnoe Konstruktorskoe Bjuro Po Oborudovaniju dlya proizvodstva asbestotsementnykh Izedely i Rulonokrovelnykh Materialov: See—
 Agalakov, Viktor Iosifovich; Guselnikov, Eduard Mitrofanovich; and Smaikin, Viktor Gavrilovich, 3,683,217.
 Spetz, Frank F. Broiler, 3,691,935, 9-19-72, Cl. 99-327.000.
 Spetz, Mary Ann. Pre-constructed buttonhole and method of incorporating same in a garment. 3,701,167, 10-31-72, Cl. 2-266.000.
 Speyer, Fred B., to TRW Inc. In-situ carbiding of pyrolyzed composites. 3,644,135, 2-22-72, Cl. 117-46.
 Spezial-Papiermaschinenfabrik August Alfred Krupp: See—
 Norbistrath, Max, 3,650,488.
 Speziale, Angelo; and Smith, Lowell R., to Monsanto Company. N-(4-nitrophenylsulfonyl)-N'-(chloro and/or nitro substituted benzoyl)ureas. 3,665,023, 5-23-72, Cl. 260-397.7.
 Speziale, Angelo John: See—
 Hamm, Philip C.; and Speziale, Angelo John, 3,690,864.
 Smith, Lowell R.; and Speziale, Angelo John, 3,655,646.
 Speziale, Angelo John; and Smith, Lowell R., to Monsanto Company. Alkyl N-(2-nitrobenzoyl) carbamates. 3,642,863, 2-15-72, Cl. 260-471.
 Speziale, Angelo John; and Smith, Lowell R., to Monsanto Company. Phytocidally active compounds. 3,642,893, 2-15-72, Cl. 260-558.
 Sphere Investments Limited: See—
 Hutter, James Francis; and Kelly, Leonard, 3,701,419.
 Spheres, Inc.: See—
 Petri, Jan, 3,652,760.
 Spicer, Alvin W.; and Talalay, Anselm, to Goodrich, B. F., Company, The. Apparatus for continuously vulcanizing endless belts. 3,700,365, 10-24-72, Cl. 425-28.000.
 Spicer, Courtland K.; and Birmingham, John M., to Syntex Corporation. Preparation of dicyclopentadienylcobalt. 3,657,297, 4-18-72, Cl. 260-439.
 Spicer, Dalton Harold: See—
 Ross, Brian Francis; and Spicer, Dalton Harold, 3,699,751.
 Spicer, Gordon M., to Koppers Company, Inc. Torsionally spring loaded feeder plates. 3,661,382, 5-9-72, Cl. 271-44.
 Spicer, John Calvin: See—
 Winslow, Alfred Edwards; and Spicer, John Calvin, 3,640,841.
 Spicer, John M.: See—
 Hall, Roger W.; and Spicer, John M., 3,643,733.
 Spicer, Larry Dean; and Hand, John James, to American Cyanamid Company. 6-(m-Amino and substituted-amino phenyl)-2,3,5,6-tetrahydro [2,1-b] thiazoles and method of use. 3,673,205, 6-27-72, Cl. 260-306.700.
 Spicer, Lauren D. Perpetual calendar. 3,698,113, 10-17-72, Cl. 40-113.000.
 Spicer, Oliver V., 1/2 to Rodgers, Swain. Photographic developing machine automatic cut off. 3,647,124, 3-7-72, Cl. 226-46.
 Spicer, William E., to Varian Associates. X-ray image intensifier tubes having the photo-cathode formed directly on the pick-up screen. 3,693,018, 9-19-72, Cl. 250-213.000.
 Spichala, Paul, to Fichtel & Sachs AG. Friction clutch assembly. 3,640,361, 2-8-72, Cl. 192-70.18.
 Spider Staging, Inc.: See—
 Bruass, Albert, 3,690,409.
 Fisher, Sidney L., 3,661,226.
 Fisher, Sidney L., 3,671,712.
 Spiegel, Si: See—
 Marks, Theodore; and Spiegel, Si, 3,692,617.
 Spiegel, Si, to American Technical Industries, Inc. Indoor-outdoor artificial Christmas tree. 3,679,528, 7-25-72, Cl. 161-24.000.
 Spiegel, Si, to American Technical Industries, Inc. Tree stand. 3,682,421, 8-8-72, Cl. 248-48.000.
 Spiegel, Si I.: See—
 De Cosmo, Anthony; Powell, Kenneth R.; and Spiegel, Si I., 3,634,180.
 Spiegel, Si I., to American Technical Industries, Inc. Artificial plant utilizing a three-dimensional shell framework. 3,647,605, 3-7-72, Cl. 161-31.
 Spiegelberg, Hans: See—
 Batcho, Andrew David; Berger, Julius; Furlenmeier, Andre; Keller, Oscar; Pecherer, Benjamin; Schocher, Arno Johannes; Spiegelberg, Hans; and Vaterlaus, Bruno Peter, 3,706,729.
 Bollag, Werner; Ramuz, Henri; and Spiegelberg, Hans, 3,634,506.
 Edenhofer, Albrecht; and Spiegelberg, Hans, 3,674,799.
 Edenhofer, Albrecht; and Spiegelberg, Hans, 3,701,777.
 Edenhofer, Albrecht; and Spiegelberg, Hans, 3,705,168.
 Edenhofer, Albrecht; Ramuz, Henri; and Spiegelberg, Hans, 3,706,755.
 Kyburz, Emilio; and Spiegelberg, Hans, 3,632,857.
 Kyburz, Emilio; and Spiegelberg, Hans, 3,637,854.
 Kyburz, Emilio; and Spiegelberg, Hans, 3,641,153.
 Spiegelberg, Harry L.; Timmons, Terry K.; and Stumpf, Robert J., to Kimberly-Clark Corporation. Nonwoven material and method of making the same. 3,689,353, 9-5-72, Cl. 161-63.000.
 Spiegelman, Solomon; and Haruna, Ichiro, to University of Illinois Foundation. Synthesis in vitro of nucleic acids and products used therein and products produced therefrom. 3,661,893, 5-9-72, Cl. 260-211.5.
 Spiegelman, Solomon; and Levisohn, Reuben, to University of Illinois Foundation. Synthesized mutant RNA and methods of preparing same. 3,689,475, 9-5-72, Cl. 260-211.50r.
 Spielberg, David H.: See—
 Youtsey, Karl J.; Holt, William C., Jr.; Carnahan, Robert D.; and Spielberg, David H., 3,651,386.
 Spielmann, Erich R., to British Oxygen Company, Limited, The. Multi stage forming operations. 3,707,407, 12-26-72, Cl. 148-12.000.
 Spielvogel, David E.: See—
 Hyde, James Franklin; and Spielvogel, David E., 3,652,628.
 Spielvogel, Paul; Sagel, William R.; and Miller, Jay H., to Klein, S., Department Stores, Inc. Textile product display fixture. 3,688,916, 9-5-72, Cl. 211-126.000.
 Spier, Jerome B., to Naken, M. I., Company. Storage unit for flatware. 3,677,400, 7-18-72, Cl. 206-75.000.
 Spierenburg, Gozen, to N.V. Gereedschappenfabriek. Drinking nipple for poultry. 3,669,077, 6-13-72, Cl. 119-72.5.
 Spies, Donald H. Model airplane muffler constructions. 3,669,216, 6-13-72, Cl. 181-40.000.
 Spies, George R.: See—
 Moen, Walter B.; and Spies, George R., 3,650,290.
 Spies, Helmut, to Fichtel & Sachs AG. Wheel for two-wheel vehicles. 3,645,580, 2-29-72, Cl. 301-55.
 Spies, Hohann, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung. Electric fuse circuit. 3,700,968, 10-24-72, Cl. 317-31.000.
 Spies, Johann, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung. Explosive charge ignition system. 3,682,098, 8-8-72, Cl. 102-70.20r.
 Spies, Klaus; and Rinio, Johannes, to Klockner-Werke, Aktiengesellschaft. Guide rail device for a longwall mining machine. 3,633,972, 1-11-72, Cl. 299-34.
 Spies, Robert: See—
 United States of America, National Aeronautics and Space Administration, 3,696,833.
 Spies, Rolf E., to Motorola, Inc. Frequency stable blocking oscillator. 3,678,412, 7-18-72, Cl. 331-112.000.
 Spiess, C. F., & Sohn: See—

- Haberhauer, Karl; Jutzi, Manfred; and Kiess, Reinhold, 3,700,513.
- Spieß, Gustav; deceased (by Spieß-Guttinger, Lina; Spieß, Peter; Spieß, Marianne; Spieß, Hansjorg; and Spieß, Walter; heirs), to Aktiengesellschaft Brown, Boveri & Cie. Arrangement for braking a three-phase motor driven hoist. 3,665,272, 5-23-72, Cl. 318-204.
- Spieß, Hansjorg: *See—*
- Spieß, Gustav, 3,665,272.
- Spieß, Irwin; and Gratkowski, Gabriel G., to United States of America. Army. Rocket & launcher assembly with thrust adjustment. 3,688,636, 9-5-72, Cl. 89-1,800.
- Spieß, Marianne: *See—*
- Spieß, Gustav, 3,665,272.
- Spieß, Peter: *See—*
- Spieß, Gustav, 3,665,272.
- Spieß, Walter: *See—*
- Spieß, Gustav, 3,665,272.
- Spieß-Guttinger, Lina: *See—*
- Spieß, Gustav, 3,665,272.
- Spießens, Raymond Francois; Schuringa, Leffert; and Verboven, Ghislain Felix Alfons Arthur, to U.S. Philips Corporation. Method of heating a hollow article. 3,646,308, 2-29-72, Cl. 219-121.
- Spiehl, Albert; and Spiehl, Rudolf. Bar structure for the horizontal bars of a gymnastic apparatus. 3,707,286, 12-26-72, Cl. 272-63,000.
- Spiehl, Howard H.: *See—*
- Randle, Walter N.; Spiehl, Howard H.; and English, William D., 3,673,871.
- Spiehl, Rudolf: *See—*
- Spiehl, Albert; and Spiehl, Rudolf, 3,707,286.
- Spiehl, Rudolf. Device for measuring a cylindrical body. 3,664,692, 5-23-72, Cl. 287-52,000.
- Spiehl, Rudolf. Threaded ring. 3,667,525, 6-6-72, Cl. 151-21,00c.
- Spieschka, Ernst: *See—*
- Papenfuss, Theodor; and Spieschka, Ernst, 3,671,553.
- Rentel, Heinz; and Spieschka, Ernst, 3,635,745.
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- Usse, Jean E.; and Spindler, Henri, 3,662,283.
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- Lauer, Karl; Spingler, Helmut; Wallach, Karl-Erhard; and Stoeck, Georg, 3,694,158.
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- Spinner Osakeyhtio: *See—*
- Kuusaari, Pekka, 3,656,290.
- Salama, Risto, 3,645,081.
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- Rosenberg, David D.; and Spinney, David U., 3,637,479.
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- Fauth, Gunter; and Spinnler, Rainer, 3,702,953.
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- Dreimanis, Herbert V.; Spisz, Albert S.; Merlino, Eugene L., Jr.; and Ellis, Jonas, 3,664,481.


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- Day, Lawrence, 3,659,384.
- Day, Lawrence, 3,683,562.
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- Dzevitsky, Boris Eduardovich; Spitsyn, Boris Vladimirovich; Kochkin, Dmitry Alexandrovich; and Deryagin, Boris Vladimirovich, 3,705,937.
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- Hutchinson, Seymour M., 3,634,938.
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- Assouline, George; Leiba, Eugene; and Spitz, Erich, 3,663,086.
- Broussaud, George G. T.; and Spitz, Erich, 3,634,693.
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- Kay, Edward Leo; Hunt, Jerry Donald; and Spitz, Robert Paul, 3,647,739.
- Spitzer, Ludwig, sen. KG: *See—*
- Gramlich, Fritz, 3,679,082.
- Spitz, Hans: *See—*
- Knapp, Guenter; and Spitz, Hans, 3,645,691.
- Spivack, John D.: *See—*
- Dexter, Martin; Spivack, John D.; and Steinberg, David H., 3,642,868.
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- Konovalev, Boris Leonidovich; Spivak, Boris Volkovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kildishev, Vasily Semenovich; and Stanislavsky, Lazar Yankelevich, 3,683,221.
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- Salihi, Jalal I.; Brockman, John J.; and Spix, George J., 3,688,171.
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- McLeod, Melvin Elliott; Deutschman, John Edward; Percival, Herbert Warren; and Spoel, Han, 3,676,105.
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- Semonsky, Miroslav; and Zikan, Viktor, 3,681,497.
- Spofa, United Pharmaceutical Works: *See—*
- Mansfeld, Viktor; and Padr, Zdenek, 3,670,075.
- Weichert, Jaroslav; Blaha, Ludvik; Hodorova, Jarmila; Dlabac, Antonin; and Trcka, Vaclav, 3,637,759.
- Spohn, Ralph J.: *See—*
- Seyferth, Dietmar; and Spohn, Ralph J., 3,692,652.
- Spohr, Albert S.: *See—*
- Waters, Robert S.; and Spohr, Albert S., 3,699,952.
- Spohr, Hans Werner: *See—*
- Leier, Karl Otto; Spohr, Hans Werner; and von Riegen, Johannes, 3,704,978.
- Spokes, Raymond E.: *See—*
- Keller, Emil C.; and Spokes, Raymond E., 3,673,276.
- Spolners, Ilgvars J.: *See—*
- Pellegrini, John P., Jr.; and Spolners, Ilgvars J., 3,632,769.
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- Jones, David Thomas; Jowett, George Edward; and Webster, Edward Ernest, 3,674,030.
- Spong, Fred William: *See—*
- Flory, Robert Earl; and Spong, Fred William, 3,637,925.
- Sponseller, Harold P.: *See—*
- Graybill, Harold W.; Heider, James E.; and Sponseller, Harold P., 3,679,341.
- Spontak, David J.: *See—*
- Soumas, Charles A.; and Spontak, David J., 3,634,669.
- Spontelli, Leonard P.: *See—*
- Dodge, Harry G.; and Spontelli, Leonard P., 3,661,378.
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- Stern, Kenneth; Stern, Karen; and Spoon, Robert, 3,705,387.
- Spooncer, William W.: *See—*
- Nakamaye, Kay L.; Slaugh, Lynn H.; Spooncer, William W.; and Volger, Hendrik C., 3,641,170.
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- Marx, Matthias; Becker, Ernst; and Spoor, Herbert, 3,703,596.
- Troeger, Gottfried; Mueller, Gerhart Hermann; Bachmann, Gerhard; Spoor, Herbert; and Batzill, Wolfgang, 3,697,461.
- Spoorenberg, Huibert A. J. M.: *See—*
- Boersma, Rintje; and Spoorenberg, Huibert A. J. M., 3,646,412.
- Spormann, Horst: *See—*
- Bertrange, Hermann; and Spormann, Horst, 3,636,790.
- Sporrong, Robert N.: *See—*
- Sapkus, Jurgis; Lewis, J. Stephen; and Sporrong, Robert N., 3,699,713.
- Sport Games, Inc.: *See—*
- Imperato, Joseph, 3,654,729.
- Sports Equipment, Inc.: *See—*
- Meyers, Walter A., Sr., 3,675,921.
- Sports Management Services, Inc.: *See—*
- Mason, James N.; and Davidson, Charlotte C., 3,687,457.
- Sports Technology, Inc.: *See—*
- Petersen, Paul S., 3,659,866.
- Sportsman Camper Equipment Co.: *See—*
- Witers, Gerardus A., 3,684,112.
- Spotnails, Inc.: *See—*
- Perkins, Garry P., 3,648,914.
- Perkins, Garry R., 3,651,740.
- Perkins, Garry R.; and Goode, James K., Jr., 3,684,339.
- Perkins, Garry R.; and Goode, James K., 3,688,966.
- Perkins, Garry R., 3,707,406.
- Spott Electrical Company: *See—*
- Martin, Stephen J., 3,666,094.
- Spotts, John A., Jr.: *See—*
- Cormany, Charles L.; and Spotts, John A., Jr., 3,679,590.
- Spra-Con Company, The: *See—*
- Harrison, John, 3,693,776.
- Spra-Kleen Company, Inc., The: *See—*
- Payne, Francis M., 3,689,037.
- Spracklen, Dorothy H.: *See—*
- McCullough, William N.; and Spracklen, Edwin E., 3,669,748.
- Spracklen, Edwin E.: *See—*
- McCullough, William N.; and Spracklen, Edwin E., 3,669,748.

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Shuttleworth, James J.; Sprague, Carlton S.; Shuttleworth, Howard P.; Zimmerman, Charles E.; and Wiseman, John A., 3,672,117.
- Sprague, Dennis R.: *See*—
Toledo, Emil; and Sprague, Dennis R., 3,647,654.
Toledo, Emil; and Sprague, Dennis R., 3,661,728.
- Sprague Devices, Inc.: *See*—
Novak, Ronald L., 3,633,827.
- Sprague Electric Company: *See*—
Acello, Salvatore J., 3,665,267.
Alwitt, Robert S.; and Santway, Robert W., 3,697,822.
Burger, Francis J. P. J.; and Wu, Jie Chu, 3,676,752.
Burn, Ian, 3,638,084.
Dornfeld, John E.; and Williams, Sidney B., 3,638,083.
Dunkl, Franz S., 3,646,403.
Dunkl, Franz S., 3,665,261.
Fabricius, John H., 3,668,478.
Frantz, Franklin D.; Acello, Salvatore J.; and Geller, Harold I., 3,670,091.
Fresia, Elmo James; and Desmond, Jeremiah E., 3,653,119.
Helgeland, Walter; Lazott, James B.; Duke, Philip J.; Taggart, William J.; Geacox, George W.; and Brandsma, Abe, 3,645,784.
Lehovec, Krut; Hielscher, Frank H.; and Preier, Horst M., 3,670,198.
Maher, Galeb H., 3,682,766.
Markarian, Mark; and Gamari, Francis J., 3,654,523.
Markarian, Mark; and McDonough, Robert J., 3,662,236.
Markarian, Mark, 3,669,302.
Mc Dougall, John D., 3,660,735.
Morrison, Richard J.; and Ross, Sidney D., 3,687,718.
Netherwood, Paul H., 3,684,818.
Puppulo, Henry F.; and Markarian, Mark, 3,654,524.
Roethlein, Richard J., 3,684,928.
Ross, Sidney D.; and Finkelstein, Manuel, 3,684,932.
Ross, Sidney D.; Dunkl, Franz S.; and Finkelstein, Manuel, 3,702,426.
Senf, George A., 3,660,786.
Shim, George A.; and Lazott, James B., 3,686,473.
Tierman, Melvin, 3,638,085.
Williams, Sidney B.; and Baumann, Martin E., 3,636,610.
Zeppieri, Dominick John, 3,706,917.
- Sprague, Gary R.: *See*—
Craft, Nina B.; and Sprague, Gary R., 3,648,296.
- Sprague, George Sidney: *See*—
Hauser, Martin; and Sprague, George Sidney, 3,632,632.
- Sprague, James M.: *See*—
Ziegler, Carl; and Sprague, James M., 3,647,873.
Ziegler, Carl; and Sprague, James M., 3,663,615.
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Keller, Juergen H. H.; and Sprague, Robert Hicks, 3,666,464.
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Erickson, Rodney R.; Matthews, Ralph W.; and Sprangel, Richard V., 3,687,160.
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- Sprave, Klaus: *See*—
Eiler, Peter; and Sprave, Klaus, 3,693,742.
- Spravniks, Eduards: *See*—
Murphy, James A.; Lee, Charles A.; and Spravniks, Eduards, 3,707,281.
- Spray Shine Incorporated: *See*—
Nevitt, Milton, 3,704,143.
- Spraymould Limited: *See*—
Dicks, Peter D. J.; and Hill, William M., 3,685,071.
- Sprayon Research Corporation: *See*—
Kempthorne, Richard Lewis, 3,676,170.
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Anderson, Eric; and Spreadsborough, John, 3,682,606.
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Roth, Adrian W., 3,636,292.
- Sprecher & Schuh A.G.: *See*—
Heiz, Max; and Kalocay, Rudolf, 3,701,101.
Mayer, Georg; and Glaser, Egon, 3,655,254.
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Lorcher, Harry; and Spreitzer, Franz, 3,655,017.
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Nass, Gerald I.; and Sprenger, Gerhard E., 3,650,885.
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Roher, Arnold L.; Sprigman, Arthur; and Steinberg, Bertram, 3,635,520.
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Whitehead, Alvin C., 3,695,531.
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Britton, John; and Daniell, Bernard Lawrence, 3,658,601.
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Fulton, Wayne F., 3,659,550.
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DeMaine, Paul A. D.; and Springer, Gordon K., 3,656,178.
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Meininger, Fritz; Hunger, Klaus; and Springer, Hartmut, 3,663,576.
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Schaper, Hans; Springer, Kurt; and Kyburz, Edgar, 3,664,946.
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Eberhard, Heinz; and Menzer, Anton, 3,631,723.
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Nilsson, Gosta, 3,705,974.
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Eichel, Hermann J.; Hickey, Kenneth R.; and Springman, Frank R., 3,663,690.
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Stone, Guthrie B.; and Holmes, William F., 3,678,724.
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Gould, Bruce Michael, 3,670,534.
McConnell, Alexander; and Bickel, Fay D., 3,672,389.
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Wingardh, Uno, 3,666,088.
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Stenuick, Marcel, 3,640,350.
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Berger, Richard M.; and Sproull, Reavis C., 3,658,626.
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Blackett, Frank E.; and Sprouse, Jack E., 3,686,058.
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Soellner, Arthur M.; Sprouse, James F.; and Raju, Triponithura A., 3,663,857.
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Block, Burton P.; Sprout, Oliver S., Jr.; and Dahl, Gerd H., 3,663,274.
- Sprout, Waldron & Company, Inc.: *See*—
Fisher, Chester Donald, 3,701,488.
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Harris, Grady W.; and Spro, Frank B., 3,645,885.
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Fetzer, Maurice C.; Sprawl, John D.; and Mohondro, William R., 3,649,227.
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Branco, Richard P.; Sprude, Edgar O.; and Diener, Albert W., 3,651,447.
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Bloom, John A.; Spruill, Durward L.; and Wakefield, Gene F., 3,654,895.
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Schuenemann, Claus H.; and Spruth, Wilhelm G., 3,681,761.
- Spruyt, Harry: *See*—
Hoffman, Louis S.; and Spruyt, Harry, 3,696,940.
Spruyt, Harry; and Hoffman, Louis, 3,687,328.
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Morin, Robert B.; Spry, Douglas O.; Hauser, Kenneth L.; and Mueller, Richard A., 3,644,502.
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Spuhl, Walter, 3,631,960.
Spuhl, Walter, 3,698,448.
Spuhl, Walter O., 3,688,918.
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Lohmann, Arthur M.; Spurbeck, King; and Burg, Raymond H., 3,706,282.
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Daum, John I.; and Spurgin, Ray B., 3,688,784.
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Lukach, Carl A.; and Spurlin, Harold M., 3,645,890.
Mahlman, Bert H.; and Spurlin, Harold M., 3,705,123.
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Gell, Dennis; and Spurling, Arthur William, 3,653,231.
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Jacobson, Robert L.; and Spurlock, Burwell, 3,639,227.
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Andrews, James A., 3,642,086.
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- Spyropoulos, Constantine G., to Beckman Instruments, Inc. Sample cell holder for radiant energy analyzers. 3,695,772, 10-3-72, Cl. 356-246.000.
- Squarioni, Andre: *See*—
Neuville, Claude Marie Daniel; Quenouille, Georges Emile; Squarioni, Andre; and Laurent, Jean-Joel Marcel Gustave, 3,662,366.
- Square D Company: *See*—
Adamson, Wayne G., 3,678,228.
Anger, Ernest G.; Richards, Giles J.; Bloodgood, John F.; and Geiger, Roy J., 3,686,556.
Boley, Robert D.; Meyer, Charles F.; Kiessling, Rudolf H.; and Paape, Kenneth L., 3,683,301.
Bumfield, Walter T., 3,693,137.
Burd, Thomas A., 3,679,854.
Carpenter, Peter E. G.; and Cook, David L., 3,693,121.
Chabot, Ferdinand E., 3,706,056.
Gribble, Joseph J., 3,632,927.
Jorgensen, George N., 3,647,937.
Kroeger, Jerry E., 3,674,962.
Lehman, Lewis M.; and Koeppler, John A., 3,681,553.
Messick, Mikel Jay, 3,649,897.
Messick, Mikel Jay, 3,699,417.
Palmer, Neil R.; Karge, Joseph R.; and Erickson, Kenneth W., 3,688,228.
Puetz, Jordan F.; and Stallman, James E., 3,643,188.
Puetz, Jordan F.; and Stallman, James E., 3,643,190.
Puetz, Jordan F., 3,646,491.
Ries, Robert G.; and Montross, Robert C., 3,656,038.
Ries, Robert G., 3,670,273.
Rothweiler, Richard C.; Sohns, Carl B.; and Washburn, John A., 3,666,900.
Rys, Tadeusz J., 3,657,723.
Rys, Tadeusz J., 3,678,230.
Rys, Tadeusz J., 3,706,868.
Shedenhelm, Wayne A., 3,683,350.
Stallman, James E.; Schlitt, James J.; Puetz, Jordan F.; and Arneberg, Don J., 3,643,187.
Stallman, James E.; and Arneberg, Don J., 3,643,189.
Stanback, Harris I., 3,662,323.
Stanback, Harris I., 3,663,865.
Stanback, Harris I., 3,675,085.
Stanback, Harris I., 3,694,701.
Stanback, Harris I., 3,705,374.
Stanfield, Harold W., 3,634,598.
Turnbull, Merlin Y., 3,655,934.
Wrabetz, Voyta E., 3,676,812.
- Square D Company Canada Limited: *See*—
Peck, Ronald G., 3,683,140.
- Square D Company, mesne: *See*—
Beavitt, Alan Robert, 3,665,349.
- Squassoni, Gino F.: *See*—
Egnaczak, Raymond K.; and Squassoni, Gino F., 3,640,616.
Egnaczak, Raymond K.; and Squassoni, Gino F., 3,642,365.
Egnaczak, Raymond K.; and Squassoni, Gino F., 3,644,035.
Egnaczak, Raymond K.; and Squassoni, Gino F., 3,647,290.
Egnaczak, Raymond K.; and Squassoni, Gino F., 3,658,687.
- Squibb, E. R., & Sons, Inc.: *See*—
Aszalos, Adorjan; Robison, Robert S.; Pansy, Felix; and Berk, Bernard, 3,632,749.
Aszalos, Adorjan; Robison, Robert S.; Kraemer, Nancy; Henshaw, Jo Ann; and Giannini, Mary Suzanne, 3,674,867.
Bernstein, Jack; and Losee, Kathryn Alice, 3,660,464.
Bernstein, Jack; and Losee, Kathryn Alice, 3,660,466.
Bernstein, Jack; and Losee, Kathryn A., 3,660,469.
Bernstein, Jack; and Losee, Kathryn Alice, 3,666,799.
Bernstein, Jack; and Losee, Kathryn Alice, 3,666,800.

- Bernstein, Jack; Diassi, Patrick Andrew; and Weisenborn, Frank Lee, 3,668,198.
 Bodanszky, Miklos, 3,704,246.
 Breuer, Herman, 3,705,247.
 Breuer, Hermann, 3,634,412.
 Breuer, Hermann, 3,636,032.
 Chen, James Ling, 3,632,751.
 Chen, James Ling, 3,696,811.
 Cilento, Rudolfo; and Cohn, Robert M., 3,635,834.
 Erickson, Raymond Curry, 3,673,183.
 Hagan, James J.; Chanod, Edward E.; Feldman, Robert S.; and Cords, Helmuth, 3,706,660.
 Haney, Thomas A.; and Bruno, Gerald A., 3,664,964.
 Haugwitz, Rudiger D.; and Narayanan, Venkatachala Lakshmi, 3,665,007.
 Haugwitz, Rudiger D.; and Lakshmi, Venkatachala, 3,678,066.
 Heuser, Leon John; and Anderson, Carl Francis, 3,649,625.
 Heuser, Leon John, 3,657,224.
 Hill, John A.; and La Via, Anthony L., 3,695,898.
 Hoehn, Hans; and Schulze, Ernst, 3,669,950.
 Hoehn, Hans; and Schulze, Ernst, 3,697,527.
 Hoehn, Hans; and Schulze, Ernst, 3,697,532.
 Krapcho, John, 3,635,956.
 Krapcho, John, 3,678,052.
 Krapcho, John, 3,704,323.
 La Via, Anthony Laurence; O'Laughlin, Richard Lawrence; and Walton, Richard Wiegmann, 3,704,138.
 Last, Jerold Alan; and Neidleman, Saul Lewis, 3,634,450.
 Last, Jerold Alan; and Neidleman, Saul Lewis, 3,646,218.
 Levine, Seymour D.; and Diassi, Patrick A., 3,647,820.
 Levine, Seymour D., 3,652,544.
 Levine, Seymour D., 3,660,457.
 Levine, Seymour D., 3,676,452.
 Levine, Seymour D., 3,679,747.
 Levine, Seymour D., 3,696,109.
 Narayanan, Venkatachala Lakshmi, 3,639,666.
 Narayanan, Venkatachala Lakshmi; Hauck, Frederic Peter; and Weisenborn, Frank Lee, 3,642,869.
 Narayanan, Venkatachala Lakshmi; and Bernstein, Jack, 3,646,066.
 Narayanan, Venkatachala Lakshmi; and Bernstein, Jack, 3,646,067.
 Narayanan, Venkatachala Lakshmi, 3,694,512.
 Narayanan, Venkatachala Lakshmi; and Dolfini, Joseph Edward, 3,705,906.
 Riffkin, Charles; Rifino, Carl B.; and Cyr, Gilman N., 3,703,511.
 Weisenborn, Frank Lee; Dolfini, Joseph Edward; Bach, Georges Gustav; and Bernstein, Jack, 3,682,981.
 Wieslogle, Frederick Y.; and Bernstein, Jack, 3,647,781.
 Yale, Harry L.; and Bernstein, Jack, 3,657,275.
 Yale, Harry Louis; and Pluscec, Jelka, 3,644,378.
 Yale, Harry Louis, 3,666,866.
 Yale, Harry Louis; and Petigara, Ramesh, 3,676,445.
 Yale, Harry Louis, 3,691,162.
 Yale, Harry Louis, 3,705,242.
 Squibb, E. R., & Sons, Inc., *mesne*: *See*—
 Yale, Harry Louis; and Petigara, Remesh, 3,702,852.
 Squier, William H. Method for coating, laminating, and molding automobile floor coverings. 3,673,034, 6-27-72, Cl. 156-222.000.
 Squiers, David J., to Texas Instruments, Incorporated. Fail-safe electronic control system. 3,644,075, 2-22-72, Cl. 431-66.
 Squillari, Walter: *See*—
 Studenick, David K.; Tyler, Allen L.; and Squillari, Walter, 3,698,667.
 Squire, Christopher John: *See*—
 Barrett, Arthur Michael; Carter, John; Hull, Roy; Le Count, David James; and Squire, Christopher John, 3,663,607.
 Squire, Herbert D., to Admiral Corporation. Adjustable refrigerator shelf. 3,690,744, 9-12-72, Cl. 312-351.000.
 Squire, John Mansel: *See*—
 Bremner, Alexander McColl; and Squire, John Mansel, 3,660,325.
 Squires, Fitz A.; and Squires, Sophie. Numerical base systems teaching device. 3,633,287, 1-11-72, Cl. 35-33.
 Squires, Harwood H.: *See*—
 Mills, Frank J.; Sadowski, John T.; Squires, Harwood H.; and Uebelhart, James J., 3,671,026.
 Squires, Sophie: *See*—
 Squires, Fitz A.; and Squires, Sophie, 3,633,287.
 Squires, William C.; and Hayes, Lawrence E., to Reynolds, R. J., Tobacco Company. Synthesis of 6-hydroxynicotine. 3,644,176, 2-22-72, Cl. 195-51.
 Squirrel, Frederick: *See*—
 Lowe, Walter Max; and Squirrel, Frederick, 3,698,429.
 Srail, Raymond C.; and Taylor, Ray D., to Goodrich, B. F., Company. The Delayed action vulcanization accelerator system. 3,692,719, 9-19-72, Cl. 260-23.50a.
 Srb, Franz: *See*—
 Fidi, Werner; and Srb, Franz, 3,649,933.
 Srebrev, Srebryu Yovtchev: *See*—
 Angelov, Stefan Hristov; Hristova, Snejnka Vladimirova; and Srebrev, Srebryu Yovtchev, 3,691,358.
 Srinath, Shimoga K.: *See*—
 Richter, Robert C.; and Srinath, Shimoga K., 3,643,546.
 Srinivasan, Rangaswamy; and Hiraoka, Hiroyuki, to International Business Machines Corporation. Method of preparing a substituted β , γ unsaturated lactones from alkoxyfurans. 3,647,656, 3-7-72, Cl. 204-158.
 Srinivasan, Sundaresa: *See*—
 Mikovsky, Richard J.; and Srinivasan, Sundaresa, 3,681,021.
 Srivastava, Gopal Krishna, to Sylvania Electric Products, Inc. Variable phase shift circuit and method. 3,637,922, 1-25-72, Cl. 178-5.4.
 Srivastava, Keshava; and Dixon, Samuel J., to Honeywell Information Systems, Inc. Three frequency data separator. 3,656,149, 4-11-72, Cl. 340-347.
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 Srock, Rainer: *See*—
 Porsche, Ferdinand Anton Ernst; and Srock, Rainer, 3,647,258.
 Srodawa, Richard M.: *See*—
 Simpkin, Lawrence J.; and Srodawa, Richard M., 3,686,956.
 Srode, Walter E., Jr.: *See*—
 Zachar, James E.; and Srode, Walter E., Jr., 3,686,637.
 Sroussi, Roland: *See*—
 Lagrange, Alain; Nicolas, Jean; and Sroussi, Roland, 3,657,131.
 SSP Industries: *See*—
 Dow, Robert W.; and Moore, Arthur L., 3,656,784.
 St. Andre, Arthur F.: *See*—
 Hahn, Robert S.; and St. Andre, Arthur F., 3,642,378.
 Hahn, Robert S.; Youden, David H.; and St. Andre, Arthur F., 3,644,049.
 St. Bernard Plastics Limited: *See*—
 Roots, Philip Stanley, 3,688,017.
 St. Clair, John C. Multiple-stage evaporator. 3,654,092, 4-4-72, Cl. 202-174.
 St. Clair, John C. Constructing broken rock supports for roof or cavities storing liquified hydrocarbon gases. 3,704,593, 12-5-72, Cl. 61-500.
 St. Clair, Lawrence B.: *See*—
 Orosz, Alex, Jr.; and St. Clair, Lawrence B., 3,688,237.
 St. Clair, Maurice W. Walking method and apparatus for ski boots. 3,665,620, 5-30-72, Cl. 36-7.5.
 St. Cyr, David R., to Goodyear Tire & Rubber Company, The. Hydrocarbon-derived resins having low softening point. 3,692,756, 9-19-72, Cl. 260-80.700.
 St. Denis, Robert Alexander: *See*—
 Peterson, Rehn Claus; St. Denis, Robert Alexander; and Steckel, Douglas Thomas, 3,663,008.
 St. George, Alfonso; and Winkler, Floyd John, to Sylvania Electric Products, Inc. Picture tube mounting means. 3,643,020, 2-15-72, Cl. 178-7.81.
 St. Germain, Jean, to Lapointe, Gilbert. Safety throttle control for snowmobiles and other vehicles. 3,688,599, 9-5-72, Cl. 74-526.000.
 St. Jean, Lloyd E., to Interface Industries, Inc. Anti-hammer apparatus for powered imprinters. 3,702,097, 11-7-72, Cl. 101-99.000.
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 St. Joe Minerals Corporation: *See*—
 Newbury, Dale E.; and Prengaman, Raymond David, 3,706,605.
 St. John, Dara Derrick Phiroz: *See*—
 Fitch, Stanley Frederick; and St. John, Dara Derrick Phiroz, 3,696,003.
 St. John, Douglas F., to Owens-Illinois, Inc. Pneumatic doctoring of solid ink particles from intaglio plate. 3,631,798, 1-4-71, Cl. 101-167.
 St. John, Dudley, to Hydro Conduit Corporation. Expandable core for casting concrete pipe. 3,656,732, 4-18-72, Cl. 249-179.
 St. John, Ward A. Internal combustion turbine engine. 3,680,308, 8-1-72, Cl. 60-39.340.
 St. Lawrence Manufacturing Company, Inc.: *See*—
 Vallieres, Ulric, 3,648,532.
 St. Lorant, Steven J.; and Dow, Phillip L., to United States of America, Atomic Energy Commission. Method and apparatus for precise temperature control. 3,667,246, 6-6-72, Cl. 62-208.000.
 St. Louis Fondant Company: *See*—
 Zeisler, Edward G.; and Zeisler, Glenn H., 3,658,263.
 St. Pierre, George R., to Ohio State University, The. Method and apparatus for sulfur dioxide emission control in combustion systems. 3,690,808, 9-12-72, Cl. 431-4.000.
 St. Pierre, Joseph A. Vehicle warning light device. 3,659,260, 4-25-72, Cl. 340-71.
 St. Regis Paper Company: *See*—
 Goodrich, John J.; and Waxlax, Chester E., 3,687,356.
 Kelly, Robert G.; Legg, Louis L.; and Ruf, Walter, 3,691,715.
 Rothmann, Harry Edward; and Ruf, Walter, 3,676,977.

- St. Vrain, Wallace E.; and French, Gerald H., to Mosley Electronics Inc. Multi-band monopole antenna with adjustable tuning. 3,653,053, 3-28-72, Cl. 343-745.
 St.-Laurent, Andre: *See*—
 Johnston, John S.; and St.-Laurent, Andre, 3,690,353.
 Sta-Rite Industries, Inc.: *See*—
 Branton, Donald L.; and Mowery, James R., 3,667,499.
 Staaden, Hans: *See*—
 Bromer, Heinz; Meinert, Norbert; Wetzlar, Johann Spincic; and Staaden, Hans, 3,690,905.
 Staadt, Richard L.: *See*—
 Graham, Stanford G.; Sewelin, Ernest R.; Staadt, Richard L.; and Pinney, Jimmie D., 3,638,749.
 Staar Development Co.: *See*—
 Staar, Marcel Jules Helene, 3,677,493.
 Staar, Marcel Jules Helene, to Staar Development Co. Automatic stop mechanism for a recorder using magnetic tape stored in a cassette. 3,677,493, 7-18-72, Cl. 242-191.000.
 Staar, S.A.: *See*—
 Staar, Theophil Clement Josef Lodewijk, 3,677,396.
 Staar, Theophil Clement Josef Lodewijk, 3,665,117.
 Staar, Theophil Clement Josef Lodewijk, 3,693,908.
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 Staar, Theophil Clement Josef Lodewijk, to Staar, S.A. Anti-vibration device for tape transports. 3,693,908, 9-26-72, Cl. 242-198.000.
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 Staat, Aaron A.; and Staat, Robert A. Mixing valve structure. 3,643,697, 2-22-72, Cl. 137-625.17.
 Staat, Robert A.: *See*—
 Staat, Aaron A.; and Staat, Robert A., 3,643,697.
 Staats, Henry N., to General Binding Corporation. Warp-free laminates of film and product combinations and method of making same. 3,684,635, 8-15-72, Cl. 161-43.000.
 Staats, William A.: *See*—
 Folsom, Henry J.; Lucas, Daniel R., Jr.; Staats, William A.; and Tucker, James I., 3,691,669.
 Souklakis, George; and Staats, William A., 3,659,680.
 Staats, William R.: *See*—
 Kwell, Esher R.; Staats, William R.; and Rosenberg, Robert B., 3,681,002.
 Rohrs, Marvin K.; Neary, Robert J.; Rosenberg, Robert B.; Kardas, Alan; and Staats, William R., 3,695,250.
 Rosenberg, Robert B.; Kwell, Esher R.; and Staats, William R., 3,698,378.
 Stabe, Heinrich: *See*—
 Haas, Carl; and Stabe, Heinrich, 3,681,692.
 Stabler, Theodor, to Autopan Heimerdinger & Stabler o.H.G. Developing apparatus. 3,693,529, 9-26-72, Cl. 95-93.000.
 Stabulnick, Yan Petrovich: *See*—
 Kroger, Alfon Fedorovich; and Stabulnick, Yan Petrovich, 3,683,260.
 Stacer, Ross G.: *See*—
 Mohr, John G.; and Stacer, Ross G., 3,651,406.
 Stacey, David S., to Ball Corporation. Portable remote location measuring system. 3,637,985, 1-25-72, Cl. 219-490.
 Stacey, Frank Donald; Rynn, John Munro William; and Little, Eric Cooper, to University of Queensland, The. Tilt meter. 3,698,094, 10-17-72, Cl. 33-366.000.
 Stacey, Gilbert Joseph: *See*—
 Hepworth, Walter; and Stacey, Gilbert Joseph, 3,661,920.
 Hutton, Jonathan; and Stacey, Gilbert Joseph, 3,652,575.
 Stacey, Hugh J., to Parker-Hannifin Corporation. Spool valve assembly. 3,662,783, 5-16-72, Cl. 137-596.14.
 Stacey, Joseph Gilbert: *See*—
 Doyle, Peter; and Stacey, Joseph Gilbert, 3,673,198.
 Doyle, Peter; and Stacey, Joseph Gilbert, 3,699,227.
 Stach, Kurt: *See*—
 Berger, Herbert; Stach, Kurt; Dold, Otto; Voemel, Wolfgang; and Sauer, Winfriede, 3,658,796.
 Berger, Herbert; Gall, Rudi; Merdes, Hartmut; Stach, Kurt; Voemel, Wolfgang; and Sauer, Winfriede, 3,704,301.
 Berger, Herbert; Gall, Rudi; Merdes, Hartmut; Stach, Kurt; Sauer, Winfriede; and Vomel, Wolfgang, 3,706,745.
 Popelak, Alfred; Lerch, Ansgar; Stach, Kurt; Roesch, Egon; and Hardebeck, Klaus, 3,665,002.
 Weber, Helmut; Weyer, Rudi; Aumuller, Walter; Muth, Karl; and Stach, Kurt, 3,655,756.
 Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Stach, Kurt, 3,705,151.
 Winter, Werner; Thiel, Max; Stach, Kurt; Schaumann, Wolfgang; and Ribbentrop, Annemarie, 3,639,423.
 Winter, Werner; Fauland, Erich; Stach, Kurt; Schmidt, Felix Helmut; and Aumuller, Walter, 3,646,009.
 Winter, Werner; Thiel, Max; Stach, Kurt; Schaumann, Wolfgang; Dietmann, Karl; and Juhren, Wolfgang, 3,652,568.
 Winter, Werner; Thiel, Max; Stach, Kurt; Schaumann, Wolfgang; Dietmann, Karl; and Juhren, Wolfgang, 3,654,277.
 Winter, Werner; Thiel, Max; Stach, Kurt; Schaumann, Wolfgang; Dietmann, Karl; and Ritter, Klaus, 3,683,023.
 Stach, Leonard J.: *See*—
 Richter, Sidney B.; and Stach, Leonard J., 3,632,814.
 Stache, Ulrich: *See*—
 Fritsch, Werner; Haede, Werner; Radscheit, Kurt; Stache, Ulrich; and Lindner, Ernst, 3,639,392.
 Fritsch, Werner; Stache, Ulrich; Haede, Werner; and Radscheit, Kurt, 3,639,393.
 Haede, Werner; Stache, Ulrich; Fritsch, Werner; and Radscheit, Kurt, 3,639,388.
 Haede, Werner; Stache, Ulrich; Fritsch, Werner; and Radscheit, Kurt, 3,642,770.
 Radscheit, Kurt; Stache, Ulrich; Haede, Werner; Fritsch, Werner; and Lindner, Ernst, 3,641,009.
 Radscheit, Kurt; Fritsch, Werner; Haede, Werner; and Stache, Ulrich, 3,657,228.
 Radscheit, Kurt; Fritsch, Werner; Haede, Werner; Stache, Ulrich; and Schroder, Hans-Georg, 3,657,434.
 Radscheit, Kurt; Kelkheim, Taunus; Stache, Ulrich; Haede, Werner; Hofheim, Taunus; Fritsch, Werner; Neuenhain, Taunus; and Lindner, Ernst, 3,681,344.
 Radscheit, Kurt; Kelkheim, Taunus; Fritsch, Werner; Neuenhain, Taunus; Haede, Werner; Stache, Ulrich; Hofheim, Taunus; and Lindner, Ernst, 3,682,891.
 Radscheit, Kurt; Stache, Ulrich; Fritsch, Werner; and Waede, Werner, 3,682,987.
 Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Radscheit, Kurt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of 14 β -hydroxy-3-oxo-5 α -card-20(22)-enolides. 3,639,394, 2-1-72, Cl. 260-239.57.
 Stache, Ulrich; Haede, Werner; Fritsch, Werner; Radscheit, Kurt; and Schroder, Hans-Georg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Dimeric steroid-21-alkyl-carbonates and process for their manufacture. 3,663,579, 5-16-72, Cl. 260-397.45.
 Stache, Ulrich; Radscheit, Kurt; Fritsch, Werner; Haede, Werner; and Lindner, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 4-Chloro-3-oxo-14-hydroxy- or 4-chloro-3,14-dihydroxy-carda-4,20(22)-dienolides and process for their manufacture. 3,674,779, 7-4-72, Cl. 260-239.570.
 Stachel, Adolf: *See*—
 Beyerle, Rudi; Stachel, Adolf; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckard, 3,652,557.
 Beyerle, Rudi; Nitz, Rolf-Eberhard; Resag, Klaus; Schraven, Eckard; and Stachel, Adolf, 3,706,739.
 Stachel, Inge: *See*—
 Beyerle, Rudi; Nitz, Rolf-Eberhard; Resag, Klaus; Schraven, Eckard; and Stachel, Adolf, 3,706,739.
 Stachel, Sophie: *See*—
 Beyerle, Rudi; Nitz, Rolf-Eberhard; Resag, Klaus; Schraven, Eckard; and Stachel, Adolf, 3,706,739.
 Stachewski, Harry: *See*—
 Friedrich Schatz; Stachewski, Harry; and Lehnert, Gunther, 3,700,158.
 Stachowiak, John E.: *See*—
 Goss, John B.; and Stachowiak, John E., 3,690,067.
 Stachurski, Zbigniew, to Yardney International Corporation. Method of controlling zinc dendrite growth. 3,639,173, 2-1-72, Cl. 136-3.
 Staciokas, Leon: *See*—
 Lowry, Alan B.; Mathus, Gregory; and Staciokas, Leon, 3,677,497.
 Stack, Eugene V.: *See*—
 Burnett, Edward L.; and Stack, Eugene V., 3,687,333.
 Stack, Eugene V.; and Burnett, Edward L., to Dow Chemical Company, The. Method for lining tapered cavities. 3,691,619, 9-19-72, Cl. 29-451.000.
 Stackhouse, James L., to Emerson Electric Co. Auxiliary tool device. 3,656,519, 4-18-72, Cl. 143-159.
 Stackhouse, Robert H. Rain gun case. 3,701,371, 10-31-72, Cl. 150-52.00r.
 Stackman, Robert W.: *See*—
 Davis, Gerald W.; and Stackman, Robert W., 3,706,712.
 Reader, Arthur M.; and Stackman, Robert W., 3,673,158.
 Stackman, Robert W.; and Sargent, Donald E., to Celanese Corporation. Basic dyeable polymer of a polyethylene terephthalate shaped article containing 0.5% of a sulfonated pyrrole. 3,661,504, 5-9-72, Cl. 8-168.
 Stackpole Carbon Company: *See*—
 Bang, Mogens W., 3,648,215.
 Bang, Mogens W.; and Olson, David A., 3,670,286.
 Krellner, Walter G.; and Shobert, Erle I., II, 3,671,092.

- Olson, David A., 3,676,825.
 Purdy, Harold L., 3,639,706.
 Shaler, Amos J.; and Clancy, William E., 3,659,715.
 Staco-Switch, Inc.: *See—*
 Wells, Robert R., 3,697,858.
 Stacor Visionaire Corporation: *See—*
 Blakeslee, Daniel Leo, 3,681,842.
 Stacy, Edson H. Apparatus for feeding lifts of sheets without marking same. 3,690,476, 9-12-72, Cl. 214-8.5s.
 Stacy, Galen D.; and Rohlfing, Raymond G., to Phillips Petroleum Company. Dryer control. 3,672,070, 6-27-72, Cl. 34-25.000.
 Stacy, Hugh J., to Parker-Hannifin Corporation. Fluid system and valve assembly therefor. 3,633,617, 1-11-72, Cl. 137-596.12.
 Stacy, Ivan R.: *See—*
 Lubin, Adolph H.; and Stacy, Ivan R., 3,707,256.
 Stacy, Jack C., Jr. Overland vehicle. 3,692,130, 9-19-72, Cl. 180-5.00r.
 Stade, Bertil: *See—*
 Hoglund, Edward; and Stade, Bertil, 3,633,254.
 Stade, Bertil; and Hoglund, Edward, to Mercury Metal Products, Inc. Dip stick and engine crankcase breather. 3,633,558, 1-11-72, Cl. 123-119.
 Stade, Gerhard, to Lindner, Herbert, GmbH, Firma. Method of and apparatus for shaping the profiled surface of a rotating tool for producing cycloid thread flanks on screws. 3,669,088, 6-13-72, Cl. 125-11.000.
 Stade, Gerhard, to Lindner, Herbert, G.m.b.H., Firma. Worm drive with cylindrical worm. 3,695,119, 10-3-72, Cl. 74-427.000.
 Stade, K. E.: *See—*
 Thompson, Josephus B., 3,635,119.
 Stadler, Arnd J.: *See—*
 Frost, Lincoln J.; and Stadler, Arnd J., 3,668,100.
 Stadler, Donald A.: *See—*
 Furlotte, James L.; and Stadler, Donald A., 3,642,121.
 Stadler, Georg; and Vogt, Erwin, to Siemens Aktiengesellschaft. Manganese zinc-ferrite core. 3,674,694, 7-4-72, Cl. 252-62.590.
 Stadler, Paul; Hauth, Hartmut; Wersin, Gernot; Guttman, Stephan; Hofmann, Albert; Stutz, Peter; and Willems, Hans, to Sandoz Ltd; a/k/a Sandoz A.G. Ergonine, ergoptine and the 1-methyl and 9,10-dihydro derivatives thereof. 3,652,569, 3-28-72, Cl. 260-268.
 Stadlin, Walter O.; and Wollenberg, Bruce F., to Leeds & Northrup Company. Computing econonomic power distribution in power pools. 3,683,161, 8-8-72, Cl. 235-151.210.
 Staedtler & Uhl: *See—*
 Egerer, Josef, 3,665,558.
 Staedtler & Uhl Schwabach: *See—*
 Egerer, Josef, 3,685,101.
 Staedtler, J. S.: *See—*
 Dziuk, Peter, 3,660,860.
 Kolb, Karl; and Glombitza, Klaus, 3,662,468.
 Staehlin, John H.; and Peon, Gilbert A., to United States of America, Air Force, mesne. Electrically precise slotted waveguide. 3,640,168, 2-8-72, Cl. 83-444.
 Staehlin, John H.; and Hacker, Philip S., to Westinghouse Electric Corporation. Erectable space antenna. 3,707,720, 12-26-72, Cl. 343-755.000.
 Staedle, Hans, to Zeiss-Stiftung Carl; d/b/a Zeiss, Carl. Range finder. 3,706,093, 12-12-72, Cl. 343-6.00r.
 Staff & Schwarz G.m.b.H.: *See—*
 Lemgo-Lippe, Kurt Hesse, 3,704,437.
 Staff, Richard S., to Essex International, Inc. Apparatus for testing different kinds of electro-mechanical components using preprogrammed connectors for each of the different components. 3,646,438, 2-29-72, Cl. 324-73.
 Staffel, Hans; and Isenbug, Dieter. Device for printing the elevation coordinates on a map. 3,659,047, 4-25-72, Cl. 178-36.
 Staffin, Herbert Kenneth, to Proceadyne Corporation. Moving bed filtration method. 3,677,404, 7-18-72, Cl. 210-67.000.
 Staffin, Herbert Kenneth; and Staffin, Robert, to Hercules Incorporated, mesne. Apparatus for drying particulate solids. 3,694,924, 10-3-72, Cl. 34-10.000.
 Staffin, Robert: *See—*
 Staffin, Herbert Kenneth; and Staffin, Robert, 3,694,924.
 Staffin, Robert; Ricci, Roy J.; and Juels, Ronald J., to Proceadyne Corporation. Particle analyzing apparatus and method. 3,676,647, 7-11-72, Cl. 235-92.0pc.
 Stafford, George T., Jr. Removable gooseneck drawbar for trailers. 3,632,139, 1-4-72, Cl. 280-425.
 Stafford, George T., Jr. Trailer having gooseneck and bogie connected selectively to each other and to cargo unit. 3,645,559, 2-29-72, Cl. 280-415.
 Stafford, Jay H., to Continental Oil Company. Vibrator stabilization system. 3,690,402, 9-12-72, Cl. 181-5vm.
 Stafford, John Neville. Beds. 3,693,200, 9-26-72, Cl. 5-68.000.
 Stafford, Neil S.: *See—*
 Jacobs, Justin M., Jr.; and Stafford, Neil S., 3,659,529.
 Stafford, Owen L.; and Adams, Jack J., to Dow Chemical Company, The. Impact resistant, high heat distortion composition. 3,642,949, 2-15-72, Cl. 260-876.
 Stafford, Owen L.; and Tarzwell, Robert K., to Dow Chemical Company, The. Process for preparing vinylidene chloride polymers. 3,669,914, 6-13-72, Cl. 260-17.00r.
 Stafford, Richard W.: *See—*
 Chestnut, Benjamin F.; and Stafford, Richard W., 3,664,198.
 Stafford, Richard W.; and Cuckovic, Milenko, to Mallory, P. R., & Co., Inc. Combination speed reduction and escapement means. 3,640,142, 2-8-72, Cl. 74-112.
 Stafford, Thomas S.: *See—*
 Clark, William A., IV; Davies, Charles T., Jr.; Salmond, Kent A.; and Stafford, Thomas S., 3,646,524. 
 Clark, William A., IV; Salmond, Kent A.; and Stafford, Thomas S., 3,651,483.
 Stafsudd, Oscar M.: *See—*
 Gentile, Anthony L.; and Stafsudd, Oscar M., 3,671,203.
 Stafsudd, Oscar M.; and Haak, Frederik A., to Hughes Aircraft Company. Gas laser materials and system therefor. 3,701,046, 10-24-72, Cl. 331-94.500.
 Stageberg, Wilfred E., to Minnesota Mining and Manufacturing Company. Article positioning and control mechanism. 3,650,876, 3-21-72, Cl. 156-584.
 Stageberg, Wilfred E., to Minnesota Mining and Manufacturing Company. Label dispensing mechanism. 3,653,539, 4-4-72, Cl. 221-73.
 Stager, Francis W.; and Minor, Robert N., to Biocor Corporation, mesne. Bio-degradable container. 3,647,111, 3-7-72, Cl. 220-83.
 Stager, Stanley R., III: *See—*
 Freeman, Richard B.; Kawalec, Michael T.; Maholick, Andrew W.; and Stager, Stanley R., III, 3,678,469.
 Stagg, John: *See—*
 Preston, Leslie Raymond; Pope, Victor James; Stagg, John; and Green, Ronald Sydney, 3,681,177.
 Stahl, Clarence Richard, to GAF Corporation. Process for assay of 2-haloethylphosphonic acid. 3,661,531, 5-9-72, Cl. 23-230.
 Stahl, Dieter: *See—*
 Lorentz, Guido; and Stahl, Dieter, 3,689,591.
 Stahl, Filip Torvald, to Stenberg-Flygt AB. Sealing ring for face seals. 3,643,967, 2-22-72, Cl. 277-92.
 Stahl, Frederick J., to Curtiss-Wright Corporation. Turbine blade positioning and gaging fixture. 3,636,609, 1-25-72, Cl. 29-200.
 Stahl, Frederick J., to Curtiss-Wright Corporation. Finned tube and method of manufacture. 3,693,713, 9-26-72, Cl. 165-184.000.
 Stahl, Gerhard; Spahn, Walter; Fischer, Willi; and Auth, Franz, to Messer Griesheim G.m.b.H. Column tray. 3,642,258, 2-15-72, Cl. 261-113.
 Stahl, Joel S. Plastic plumbing wall. 3,707,165, 12-26-72, Cl. 137-594.000.
 Stahl, Lawrence E.; and Gropper, Lee, to Beckman Instruments, Inc. Detecting excessive centrifuge rotor oscillations. 3,699,287, 10-17-72, Cl. 200-61.45r.
 Stahl, Marvin D.: *See—*
 Mol, Edward K.; and Stahl, Marvin D., 3,661,245.
 Stahl, Nils Evert Johan: *See—*
 Soderstrom, Gill Gunnar; Nilsson, Bertil; and Stahl, Nils Evert Johan, 3,670,146.
 Stahl, Nils Evert Johan; and Skonare, Per. Arrangement in optical character reading. 3,671,097, 6-20-72, Cl. 350-7.000.
 Stahl, Richard F.: *See—*
 Murphy, Kevin P.; and Stahl, Richard F., 3,642,639.
 Stahl, Robert Michael, to RCA Corporation. Tape player with fast tape winding mechanism. 3,666,153, 5-30-72, Cl. 226-178.000.
 Stahl, Roland E., to Du Pont de Nemours, E. I., and Company. Automotive carpet backsize composition. 3,645,948, 2-29-72, Cl. 260-28.5.
 Stahl, Sebald K.: *See—*
 Campbell, Trevar G.; Larson, Robert V.; Stahl, Sebald K.; Liess, Richard K.; and Rice, Roger A., 3,653,132.
 Stahl, Terry W.: *See—*
 Douaihy, Sarkis; Renz, John F.; Blatchley, William R.; and Stahl, Terry W., 3,636,445.
 Stahl, Ulli, to Motoren- und Turbinen-Union Munchen GmbH. Thrust nozzle for turbojet engines. 3,642,209, 2-15-72, Cl. 239-265.19.
 Stahl, William H.: *See—*
 Karas, Albert J.; Hall, Richard L.; and Stahl, William H., 3,663,238.
 Stahl-Armaturesas Persta GmbH KG.: *See—*
 Stepmann, Walter, Sr., 3,686,969.
 Stahl-und Apparatel Bau Hant Leffer G.m.b.H., Firma: *See—*
 Blaschke, Kurt, 3,689,113.
 Stahlberg, Eugene G.; Tagawa, James M.; and Tiao, Hui-Li, to International Business Machines Corporation. Two shell magnetic tape cartridge. 3,686,470, 8-22-72, Cl. 179-100.20z.
 Stahlberg, Hans J., to Ford Motor Company. Four speed ratio power transmission mechanism for automotive vehicles. 3,678,785, 7-25-72, Cl. 74-759.000.
 Stahle, Helmut: *See—*
 Koppe, Herbert; Kummer, Werner; Stahle, Helmut; Zeile, Karl; and Traunecker, Werner, 3,644,469.

- Koppe, Herbert; Zeile, Karl; Kummer, Werner; Stahle, Helmut; and Danneberg, Peter, 3,659,019.
 Stahlecker, Fritz, to Stahlecker, Wilhelm, G.m.b.H. Spinning device for spinning threads by the open-end method. 3,662,532, 5-16-72, Cl. 57-58.89.
 Stahlecker, Wilhelm, G.m.b.H.: *See—*
 Stahlecker, Fritz, 3,662,532.
 Stahler, Alfred F., to Ampex Corporation. Cassette feeding apparatus. 3,666,201, 5-30-72, Cl. 242-180.000.
 Stahler, Gerhard: *See—*
 Scherer, Otto; and Stahler, Gerhard, 3,674,803.
 Stahlfeld, Donald L.: *See—*
 Carr, Norman L.; and Stahlfeld, Donald L., 3,663,805.
 Stahlgruber Otto Gruber & Co.: *See—*
 Felden, Alois, 3,664,503.
 Stahlgruber Otto Gruber & Company: *See—*
 Felden, Alois, 3,648,750.
 Felden, Alois Peter, 3,647,589.
 Gottauf, Georg, 3,667,528.
 Stahlheber, Benjamin L.: *See—*
 Shemitz, Sylvan R.; and Stahlheber, Benjamin L., 3,679,893.
 Stahlheber, Norman Earl: *See—*
 Shen, Chung Yu; and Stahlheber, Norman Earl, 3,684,744.
 Stahlhut, Leo G.: *See—*
 Contrael, Ralph G.; Stahlhut, Leo G.; and Trippeer, Richard E., 3,661,613.
 Stahli, Alois: *See—*
 Baumann, Manfred; and Stahli, Alois, 3,645,821.
 Stahlmann, Rudolf: *See—*
 Gawlick, Heinz; and Stahlmann, Rudolf, 3,638,571.
 Stahlwerke Bruninghaus Gesellschaft mit beschränkter Haftung: *See—*
 Oehm, Otto, 3,693,390.
 Stahlwerke Sudwestfalen AG: *See—*
 Dechene, Walter; Rothe, Herbert; and Salmen, Fritz, 3,683,662.
 Stahly, Eldon. Method of treating tobacco smoke to eliminate metal carbonyl content thereof. 3,656,489, 4-18-72, Cl. 131-9.
 Stahly, Eldon E.: *See—*
 Frank, Victor S.; Lard, Edwin W.; and Stahly, Eldon E., 3,641,193.
 Frank, Victor S.; Stahly, Eldon E.; and Rice, Rip G., 3,676,311.
 Stahly, Eldon E.; and Lard, Edwin W., to Grace, W. R., & Co. Polyester resin composition with a long shelf life. 3,657,387, 4-18-72, Cl. 260-866.
 Stahmer, B.: *See—*
 Brown, Byron T.; and Stahmer, B., 3,702,744.
 Stahn, Georg, to Lindner, Herbert, GmbH, Firma. Device for adjusting the position of a grinding wheel relative to a workpiece. 3,640,024, 2-8-72, Cl. 51-165.87.
 Stahnke, Edward J., to Interlake, Inc. Welded joint strapping machine. 3,674,972, 7-4-72, Cl. 19-56.000.
 Stahr, Donald F., to FMC Corporation. Semiconductor devices having low minority carrier lifetime and process for producing same. 3,662,232, 5-9-72, Cl. 317-234.
 Stahr, Henry M., to Morris, Philip, Incorporated. Method for making metal oxide membranes. 3,671,410, 6-20-72, Cl. 204-56.000.
 Staib, Armando; deceased (by Esch, Erika; executrix). Traction devices for orthopedic tables. 3,654,920, 4-11-72, Cl. 128-71.
 Staiger, Bruno; Schlag, Siegfried; and Hartl, Walter, to International Standard Electric Corporation. Wire stripping and wrapping gun. 3,656,218, 4-18-72, Cl. 29-33.
 Staiger, Gerhard; and Stedefeder, Joachim, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of α -olefin polymers. 3,639,375, 2-1-72, Cl. 260-93.7.
 Staiger, Ulrich, to Eastman Kodak Company. Viewer. 3,674,350, 7-4-72, Cl. 353-27.000.
 Staines, Harvey C. Blade assembly for rotary lawn mower. 3,683,606, 8-15-72, Cl. 56-295.000.
 Stainfield, Russell L.: *See—*
 Moore, Carl; Louch, James B.; and Stainfield, Russell L., 3,644,258.
 Stainless, Inc.: *See—*
 Eberle, Richard J., 3,651,771.
 Stains, George S., to ULV Manufacturing Corporation. Low volume insecticide aerosol generator. 3,648,401, 3-14-72, Cl. 43-129.
 Stair, Eugene V. Falling tree controller and improved mower cutting device. 3,704,801, 12-5-72, Cl. 144-34.00a.
 Stair, Virgil H.; and Glover, James L. Transmission idler and clutch. 3,633,717, 1-11-72, Cl. 192-96.
 Stairs, Henry Marshall, to American Standard, Inc. Mounting structure for toilet bowl or the like. 3,680,154, 8-1-72, Cl. 4-252.00r.
 Stairs, Henry Marshall, to American Standard, Inc. Toilet seat cover mounting. 3,699,614, 10-24-72, Cl. 16-128.000.
 Staker, Donald D.; Plantholt, Richard H.; and Kriege, David J., to Emery Industries, Inc. Crystal modifier and method for solvent separation of fatty materials. 3,649,657, 3-14-72, Cl. 260-419.
 Staker, Walter L.; Dean, Karl C.; and Chindgren, Carl J., to United States of America, Interior. Recovery of copper. 3,660,022, 5-2-72, Cl. 23-135.000.
 Staker, William C., to General Motors Corporation. Potential controlled oscillator. 3,675,160, 7-4-72, Cl. 331-113.00r.
 Staker, William C., to General Motors Corporation. Potentiometer-resistor network for producing a non-linear direct current potential output signal. 3,679,967, 7-25-72, Cl. 323-79.000.
 Staker, William C., Jr., to General Motors Corporation. Single pulse test circuit. 3,694,667, 9-26-72, Cl. 307-232.000.
 Stal Refrigeration Aktiebolag: *See—*
 Brandin, Tore; and Johansson, Sven Yngve David, 3,643,754.
 Glanvall, Rune Valdemar, 3,687,572.
 Stalder, Herbert; and Pellaton, Jean, to Electrospin Corporation. Sliding radially-clamping gripper. 3,664,110, 5-23-72, Cl. 57-77.300.
 Stalego, Charles J.; and Wyckoff, Robert E., to Owens-Corning Fiberglas Corporation. Apparatus for producing curly glass fibers. 3,653,861, 4-4-72, Cl. 65-16.
 Stalego, Charles J., to Owens-Corning Fiberglas Corporation. Apparatus for producing glass filaments with auxiliary heating means. 3,672,857, 6-27-72, Cl. 65-12.000.
 Stalego, Joseph P., to Owens-Corning Fiberglas Corporation. Filamentizing process for glass fibers. 3,634,054, 1-11-72, Cl. 65-3.
 Stalego, Joseph P., to Owens-Corning Fiberglas Corporation. Process for producing air blown glass fiber strand mat. 3,676,095, 7-11-72, Cl. 65-3.000.
 Staley, A. E., Manufacturing Company: *See—*
 Coker, Lowell E.; and Turner, Almerin W., 3,654,087.
 Coker, Lowell E.; and Turner, Almerin W., 3,654,088.
 Coker, Lowell E.; and Turner, Almerin W., 3,654,089.
 Griffith, Gene M.; and Hayes, Lester P., 3,661,640.
 Hathaway, Robert J., 3,702,847.
 Hayes, Lester P.; Jones, Rexford W.; and Thompson, William B., 3,637,385.
 Jones, Rexford W.; and Thompson, William B., 3,676,121.
 Jones, Rexford W.; and Thompson, William B., 3,677,759.
 Kimmel, Ellsworth E.; and Young, Austin H., 3,661,697.
 Moore, Carl O., 3,687,690.
 Powers, Robert M.; and Best, Roland W., 3,649,624.
 Protzman, Thomas F.; and Magidson, William H., 3,676,127.
 Protzman, Thomas F., 3,676,145.
 Protzman, Thomas F., 3,676,146.
 Protzman, Thomas F., 3,677,756.
 Protzman, Thomas F., 3,687,666.
 Smith, David R., 3,696,082.
 Sullivan, Charles I.; and Cahill, Richard H., 3,697,466.
 Swift, Thomas G., 3,690,938.
 Tuschhoff, John V.; and Hanson, Cleo E., 3,705,891.
 Van Dorn, Warren Guy; and Hardenbrook, James Maurice, 3,698,905.
 Wright, Kenneth N.; and Shanklin, Samuel H., 3,655,882.
 Staley, A. E., Manufacturing Company, mesne: *See—*
 Rogols, Saul; and High, Robert L., 3,652,295.
 Staley, Charles F.; and Staudt, Fredrick J., to United Aircraft Corporation. Cooling means for reflecting device. 3,645,608, 2-29-72, Cl. 350-310.
 Staley, Herbert C. Furniture skirt construction. 3,657,750, 4-25-72, Cl. 5-333.000.
 Staley, James Gordon, to Sylvania Electric Products, Inc. Noise operated automatic stereo to monaural switch for FM receivers. 3,634,626, 1-11-72, Cl. 179-15.
 Staley, John H.: *See—*
 Ballard, Wesley D.; and Staley, John H., 3,667,075.
 Staley, Walton F., Jr., to Leeds & Northrup Company. Recording module for a recorder. 3,656,176, 4-11-72, Cl. 346-145.
 Staley, William E.; and Ames, Stuart L., to Allegheny Ludlum Industries, Inc. Method of siliconizing. 3,681,152, 8-1-72, Cl. 148-113.000.
 Staley, William W.: *See—*
 Shamash, Maurice B.; Staley, William W.; Denton, Charles I.; and Walton, Fred D., 3,683,105.
 Stalker, James E., to Home Metal Products Company. Kitchen hood ventilator. 3,695,164, 10-3-72, Cl. 98-115.00k.
 Stallbaumer, Richard J.: *See—*
 Wacht, Raymond J.; Stallbaumer, Richard J.; and Stilwell, Jack E., 3,631,991.
 Staller Cabinet, Inc.: *See—*
 Staller, Maurice F.; and Staller, Marvin A., 3,640,595.
 Staller, Karel J.: *See—*
 Poylo, Michael C.; and Staller, Karel J., 3,692,981.
 Staller, Karel J., to International Telephone and Telegraph Corporation. Magnetic and vacuum cleaning device for printer. 3,659,526, 5-2-72, Cl. 101-425.
 Staller, Karel Jan, to International Telephone and Telegraph Corporation. Particle applying device. 3,639,050, 2-1-72, Cl. 355-3.
 Staller, Karel Jan; and Lange, Hertwig, to International Telephone and Telegraph Corporation. Belt printer with conductive elements on non-conductive belt. 3,684,075, 8-15-72, Cl. 197-1.00r.
 Staller, Karel Jan, to International Telephone and Telegraph Corporation. Printing hammer arrangement. 3,701,995, 10-31-72, Cl. 346-74.0mp.

Staller, Karl Jan, to International Telephone and Telegraph Corporation. Shifting arrangement using a reversible Geneva drive. 3,638,510, 2-1-72, Cl. 74-436.

Staller, Marvin A.: See—

Staller, Maurice F.; and Staller, Marvin A., 3,640,595.

Staller, Maurice F.; and Staller, Marvin A., to Staller Cabinet, Inc. Motorized mobile shelving units. 3,640,595, 2-8-72, Cl. 312-198.

Stallings, Leon; Devine, Martin J.; Maerker, Gerhard; and Eisner, Abner, to United States of America, Navy. Lubricating grease compositions. 3,671,431, 6-20-72, Cl. 252-33.600.

Stallman, James E.: See—

Puetz, Jordan F.; and Stallman, James E., 3,643,188.

Puetz, Jordan F.; and Stallman, James E., 3,643,190.

Stallman, James E.; Schlitt, James J.; Puetz, Jordan F.; and Arneberg, Don J., to Square D Company. Electromagnetically operated switch construction. 3,643,187, 2-15-72, Cl. 335-132.

Stallman, James E.; and Arneberg, Don J., to Square D Company. Shock transmitting structure in an electromagnetically operated switch. 3,643,189, 2-15-72, Cl. 335-132.

Stalnitz, Daniel: See—

Becke, Hans W.; Cave, Eric F.; and Stalnitz, Daniel, 3,659,334.

Stalony-Dobrzanski, Janusz A., to Northrop Corporation. Regenerative thermocouple sensor. 3,653,975, 4-4-72, Cl. 136-225.

Stalp, Bernard J., to Data Time, Inc. Touch-operated signal producer. 3,678,496, 7-18-72, Cl. 340-323.000.

Stalpi, Gunter J.: See—

Round, Byron J.; and Stalpi, Gunter J., 3,631,587.

Stalpi, Gunter J., to Combustion Engineering, Inc. Duct positioner for the control of thermal expansion. 3,659,879, 5-2-72, Cl. 285-114.

Stalter, John D., to Nibco, Inc. Method and apparatus for molding elbows and the like. 3,632,277, 1-4-72, Cl. 18-2.

Stalter, Neil J., to Du Pont de Nemours, E. I., and Company. Stabilized hydrogen peroxide solutions. 3,687,627, 8-29-72, Cl. 423-271.000.

Staluppi, Joseph P.: See—

Prunk, Emil R.; and Staluppi, Joseph P., 3,634,848.

Stam Instruments Corporation: See—

Blustain, Stanley, 3,688,527.

Stamatiou, Dimitri S. Grain de-hulling apparatus. 3,648,745, 3-14-72, Cl. 146-253.

Stamberger, Paul. Self-inflatable hollow bodies for use as cushions and for like purposes. 3,643,268, 2-22-72, Cl. 5-348.

Stamco, Inc.: See—

Carr, William G., 3,643,704.

Stamets, Wm. K., Company: See—

Hiney, Leonard L., 3,680,413.

Long, Arthur H.; and Lyden, Edward M., 3,688,891.

Stamcarbon N.V.: See—

Boesten, Wilhelmus H. J.; and Suverkropp, Geertrudes H., 3,683,002.

Bonnema, Jentje; and Pijpers, Emanuel M. J., 3,647,754.

Bosch, Hendrik, 3,644,296.

De Koning, Hendrik, 3,686,077.

De Rooij, Abraham H.; and Kwanten, Ferdinand J. G., 3,701,809.

deRooij, Abraham H., 3,641,150.

deRooij, Abraham H.; and Elemdorp, Jan, 3,655,760.

DeRooy, Michael A.; Logemann, Johan D.; and Kienders, Henricus A. A., 3,691,729.

Duyverman, Coenraad J., 3,686,333.

Garritsen, Johan W.; Kooijman, Sebastiaan E. M.; Gregoire, Johannes H. C. M. A.; and Verbrugge, Henny, 3,639,359.

Garritsen, Johan W.; and Hofman, Johannes H. A., 3,652,552.

Garritsen, Johan W.; and Gregoire, Johannes H. C. M. A., 3,657,330.

Garritsen, Johan W.; and Classens, Johannes E. L., 3,684,797.

Geus, John W., 3,654,161.

Geus, John W.; and Lemmens, Jan C., 3,668,149.

Geus, John W., 3,679,398.

Geus, John W., 3,692,683.

Geus, John W., 3,704,226.

Groen, Siemen H.; and Deumens, Johannes J. M., 3,686,262.

Kaasenbrood, Petrus J. C.; and Taks, Gerardus J. J. M., 3,647,872.

Kaasenbrood, Petrus J. C.; and van Nassau, Petrus J. M., 3,674,847.

Kaasenbrood, Petrus J. C.; and van Nassau, Petrus J. M., 3,682,911.

Kaasenbrood, Petrus J. C., 3,697,519.

Kooijman, Sebastiaan E. M.; and Thoma, Jozef A., 3,654,238.

Leeman, Jan N. J.; and Dreissen, Hubert H., 3,687,284.

Minkhorst, Jan H. K., 3,657,210.

Ottenheim, Johannes H.; Van Krimpen, Pieter C. A.; and Franssen, Pierre J., 3,651,023.

Roest, Bernard C.; Van Der Loos, Jozef L. M.; and Claassen, Peter J. M. W., 3,642,719.

Sadee, Constant P. M.; and Koenders, Henricus A. A., 3,687,866.

Suverkropp, Geertrudes H., 3,658,889.

Suverkropp, Geertrudes H., 3,658,897.

Thoma, Jozef A.; and Deumens, Johannes J. M., 3,658,824.

van Asperen, Pieter J.; and van der Loos, Jozef L. M., 3,674,658.

Van Den Berg, Cornelis E. P. V., 3,705,138.

Van Der Linde, Wim; and Smit, Jacob M., 3,634,375.

Van Nassau, Petrus J. M.; Brand, Wilhelmus K.; and Kaasenbrood, Petrus J. C., 3,697,521.

Veermans, Antonie; and De Kock, Robert J., 3,658,765.

Venderbos, Dirk J.; and Van Dierendonck, Laurentius L., 3,703,502.

Waning, Hendrik; Mannens, Hubertus A.; and Schaapveld, Arnoldus A. W., 3,667,194.

Stamler, W. R., Corporation: See—

Anderson, Charles M.; and Boling, Harry G., 3,651,923.

Anderson, Charles M.; and Ratcliff, Edward H., Jr., 3,696,754.

Stamm, Alex F., to North American Rockwell Corporation. Method of making a friction welded drive axle shaft having an annular section of flash metal. 3,631,585, 1-4-72, Cl. 29-470.3.

Stamm, Alex F., to North American Rockwell Corporation, mesne. Friction welding apparatus. 3,671,049, 6-20-72, Cl. 279-4.000.

Stamm, James K.; Loder, Edwin R.; Brungs, Charles A.; and Kerst, Herman; Phosphonate detergent builders. 3,689,436, 9-5-72, Cl. 252-545.000.

Stamm, James K.; Loder, Edwin R.; Brungs, Charles A.; and Kerst, Herman; to Chemed Corporation, mesne. Method of laundering fabrics. 3,692,704, 9-19-72, Cl. 252-525.000.

Stamm, Robert Franz; Brinen, Jacob Solomon; Tennant, Evalyn Hosterman; and Halverson, Frederick, to American Cyanamid Company. Photochromic polymer matrix. 3,635,544, 1-18-72, Cl. 350-160.

Stamm, Walter: See—

Mirviss, Stanley B.; Greco, Carl C.; and Stamm, Walter, 3,642,890.

Sorstocke, Harold E.; Stamm, Walter; and Uhing, Eugene H., 3,694,527.

Weil, Edward D.; Stamm, Walter; and Mirviss, Stanley B., 3,636,083.

Stamm, Walter, to Stauffer Chemical Company. Stabilized styrene-acrylonitrile polymer compositions. 3,635,883, 1-18-72, Cl. 260-45.75.

Stammers, Kenneth: See—

Case, Derek Frank; and Stammers, Kenneth, 3,687,650.

Stammheim, Andres: See—

Dietrich, Werner; and Stammheim, Andres, 3,706,678.

Stamp, George Frederick; and Walker, Kenneth Allan, to Somerville Industries Limited. Sealing compound applicator. 3,664,296, 5-23-72, Cl. 118-246.000.

Stampa, Guido B., to Union Carbide Corporation. Anionic dispersion polymerization of styrene monomers. 3,684,761, 8-15-72, Cl. 260-33.20r.

Stamper, David John: See—

O'Sullivan, Denis Joseph; and Stamper, David John, 3,682,875.

Stamper, Robin Harry. Toilet seat. 3,659,296, 5-2-72, Cl. 4-217.

Stampfli, Harald, to Lucifer S.A. Valve mechanism. 3,646,969, 3-7-72, Cl. 137-627.5.

Stampfli, Harald, to Lucifer S.A. Fluid-controlling valve. 3,671,009, 6-20-72, Cl. 251-129.000.

Stampfli, Harald, to Lucifer S.A. Electromagnetic system controlling a movable member through the agency of a magnetic field. 3,675,040, 7-4-72, Cl. 307-133.000.

Stampfli, Harald, to Lucifer S.A. Control system for an electromagnet. 3,689,808, 9-5-72, Cl. 317-155.000.

Stana, Regis R.: See—

Chamberlin, Richard M.; Emswiler, James L.; Calderwood, Andrew S.; and Stana, Regis R., 3,658,955.

Chamberlin, Richard M.; and Stana, Regis R., 3,684,094.

Stana, Regis R., to Westinghouse Electric Corporation. Process for preparing high pressure cellulose acetate semipermeable membranes. 3,646,179, 2-29-72, Cl. 264-41.

Stana, Regis R.; and Calderwood, Andrew S., to Westinghouse Electric Corporation. Casting tubular reverse osmosis membranes in place. 3,657,402, 4-18-72, Cl. 264-45.

Stanback, Robert J.; and Maggio, Thomas E., to Tenneco Chemicals, Inc. Organotin salts of monoalkyl alkenylsuccinates. 3,651,107, 3-21-72, Cl. 260-429.7.

Stanadyne, Inc.: See—

Baxter, Leonard N., 3,704,963.

Hamilton, William B.; and Leshner, Kenneth W., 3,636,932.

Leshner, Kenneth W., 3,683,876.

Stanback, Harris I., to Square D Company. Meter socket base assembly. 3,662,323, 5-9-72, Cl. 339-198.

Stanback, Harris I., to Square D Company. Differential ground fault protection system. 3,663,865, 5-16-72, Cl. 317-18.

Stanback, Harris I., to Square D Company. Panel board for stacked electrical devices with sealing covers. 3,675,085, 7-4-72, Cl. 317-106.000.

Stanback, Harris I., to Square D Company. Insulating base, plug-on bus bar and connector assembly for circuit breaker panelboard. 3,694,701, 9-26-72, Cl. 317-118.000.

Stanback, Harris I., to Square D Company. Mounting means for electrical switch blade and for fuse blade terminal. 3,705,374, 12-5-72, Cl. 337-215.000.

Stancari, Franco, to AMF Incorporated. Cigarette packaging apparatus. 3,680,280, 8-1-72, Cl. 53-59.000.

Stancell, Arnold F.; and Schard, Malcolm P., to Mobil Oil Corporation. Polybutene-1 blends having improved heat sealability. 3,634,551, 1-11-72, Cl. 260-897.

Stancell, Arnold F.; and Spencer, Arthur T., to Mobil Oil Corporation. Separating fluids with selective membranes. 3,657,113, 4-18-72, Cl. 210-23.

Stancioff, Dimitri J.; and Witt, Henry J., to Marine Colloids, Inc. Titanium dioxide suspensions. 3,663,284, 5-16-72, Cl. 106-300.000.

Stanciu, Virgil V., to Tempcraft Tool & Mold, Inc. Wax injection nozzle. 3,632,259, 1-4-72, Cl. 425-245.

Stanciu, Virgil V., to Lampcraft Tool & Mold, Inc. Wax conditioning apparatus. 3,638,673, 2-1-72, Cl. 137-205.

Stanciu, Virgil V., to Tempcraft Tool & Mold, Inc. Wax injection nozzle. 3,698,640, 10-17-72, Cl. 239-187.000.

Stancl, Frantisek: See—

Barochovsky, Antonin; Horacek, Ladislav; Krulik, Zdenek; Snitily, Miloslav; Stancl, Frantisek; and Wilfert, Milos, 3,659,410.

Stand, Mille, to Sealectro Corporation. Plasma spray device and method. 3,676,638, 7-11-72, Cl. 219-121.00p.

Standal, George M. Knife grinder. 3,643,381, 2-22-72, Cl. 51-31.

Standard Alliance Industries, Inc.: See—

Aksamit, Stephen M., 3,705,554.

Czarnecki, Adolph, 3,667,399.

Desilets, Dennis W.; and Cleaver, Michael E., 3,662,688.

Holbert, Dimitry, 3,678,861.

Thibodeau, John L., 3,703,216.

Standard Box Spring Co.: See—

Ciampa, Fred A.; Serafini, Angelo; and Mazzarella, Louis, 3,681,794.

Standard Brands Chemical Industries, Inc.: See—

Hull, Jerry D.; and Finch, Robert E., 3,637,031.

Jasinski, Victor; and Stone, Raymond A., 3,642,952.

Lister, Fred; and Wax, Ludwig A., 3,639,298.

Witt, Edward, 3,632,507.

Witt, Edward, 3,663,461.

Zimmerman, Carl A., 3,657,175.

Standard Brands Incorporated: See—

Bengtson, Barbara L.; and Lamm, William R., 3,654,080.

Bodnar, Dean A.; Hinman, Charles W.; and Nelson, William J., 3,644,126.

Carbonell, Robert J., 3,689,278.

Childs, Wesley H., 3,632,357.

Dworschack, Robert G.; and Nelson, Carolyn A., 3,660,236.

Dworschack, Robert G.; and Lamm, William R., 3,666,628.

Lloyd, Norman E.; Lewis, Leonard T.; Logan, Robert M.; and Pagel, Dilip N., 3,694,314.

McClary, Joseph E., 3,642,582.

Speakman, Edwin L., 3,689,361.

Speakman, Edwin L., 3,705,046.

Standard Car Truck Company: See—

Barber, Franklin D., 3,687,086.

Standard Chemical Limited: See—

Blanchfield, Richard J.; and Smith, John F., 3,639,223.

Standard Chemical Products, Inc.: See—

Clark, John E.; and Cusano, Michael Richard, 3,649,535.

Standard Electric Time Corporation: See—

Bembek, Edward, 3,659,181.

Standard Engineering Co., Inc., mesne: See—

Rogers, John A.; and Bossard, Fredrick R., 3,635,302.

Rogers, John A.; and Bossard, Fredrick R., 3,659,667.

Rogers, John A.; and Bossard, Fredrick R., 3,664,451.

Standard Forge Axle Company, Inc.: See—

Morris, Thomas B.; Paul, Fred; and Powell, Barney R. (said Morris assor. to), 3,634,648.

Morris, Thomas B.; Paul, Fred; and Powell, Barney R. (said Powell assor. to), 3,665,146.

Standard International Corporation: See—

Hildebrandt, Albert R., 3,649,939.

Rauskolb, Fred W., 3,698,696.

Rauskolb, Fred W., 3,700,217.

Standard Kollsman Industries Inc.: See—

Gossard, Thomas F., 3,696,302.

Manicki, Gert L., 3,643,168.

Midgley, Edward L., 3,699,456.

Nakanishi, Mutsuo, 3,662,271.

Standard Kollsman Instrument Corporation: See—

Midgley, Edward L.; and Carlson, Reuben C., 3,679,980.

Standard Manufacturing Company: See—

Voorhees, Robert W., 3,706,297.

Standard Motor Products, Inc.: See—

Welsh, James W.; and Alder, Fred, 3,657,518.

Standard Oil Company: See—

Aker, James E., 3,707,248.

Bertolacini, Ralph J.; and Gutberlet, Louis C., 3,649,523.

Bertolacini, Ralph J.; and Gutberlet, Louis C., 3,650,945.

Bertolacini, Ralph J.; and Petersen, Richard D., 3,707,460.

Bolton, Benjamin A., 3,660,193.

Darin, John K.; and Kanitkar, Dileep R., 3,683,016.

Fields, Ellis K., 3,689,538.

Fields, Ellis K.; and Feinstein, Allen I., 3,691,243.

Greene, Janice L.; and Clark, Rosalind E., 3,686,307.

Grutsch, James F.; and Flood, George C., 3,663,435.

Grutsch, James F.; and Mallatt, Russell C., 3,675,779.

Grutsch, James F.; Mallatt, Russell C.; and Mowers, Robert G., 3,680,847.

Grutsch, James F.; and Mallatt, Russell C., 3,692,473.

Gutberlet, Louis C., 3,658,654.

Hollstein, Elmer J.; and Hall, Lewis W., Jr., 3,705,885.

Juveland, Omar O.; and Pramuk, Edward M., 3,658,894.

Kus, Stanley T.; and Koenig, Fred W., 3,637,543.

Marcus, Sheldon H., 3,642,646.

Mazur, Conrad F., 3,669,794.

Mazzara, Vincent B.; and Fesperman, Jerome M., 3,677,941.

Morello, Edwin F.; and Serres, Carl, Jr., 3,652,498.

Nicolet, Charles F., 3,679,770.

Olsen, George P.; Towle, Philip H.; and Baldwin, Richard H., 3,639,465.

Piasek, Edmund J.; and Karll, Robert E., 3,634,515.

Piasek, Edmund J.; Karll, Robert E.; and Lee, Richard J., 3,703,536.

Pohlmann, Hans P.; Gutberlet, Louis C.; and Hengstebeck, Robert J., 3,651,162.

Poppe, Wassily; Khelghatian, Habet M.; and Fitzpatrick, James E., 3,655,433.

Poppe, Wassily; and Khelghatian, Habet M., 3,696,665.

Radford, Herschel D.; Pohlmann, Hans P.; and Gutberlet, Louis C., 3,651,163.

Ridgway, John A., Jr., 3,681,200.

Sam, Ahmad, 3,666,563.

Serres, Carl, Jr.; and Bolton, Benjamin A., 3,691,136.

Waranus, William A., 3,649,705.

Watson, Roger W.; Brannen, William T., Jr.; and Hillstrom, Warren W., 3,652,616.

Waywell, David R.; and West, Charles T., 3,699,180.

Wennerberg, Arnold N.; and Bukvich, John T., 3,642,657.

Wennerberg, Arnold N., 3,694,350.

Wolff, William F.; Rosscup, Robert J.; and Ridgway, John A., Jr., 3,647,677.

Standard Oil Company (Indiana): See—

Bertolacini, Ralph J., 3,679,575.

Blaha, Eli W., 3,663,561.

Brannen, William T., 3,657,397.

Broadhead, Ronald L., 3,652,598.

Cartmell, Robert R., 3,661,799.

Connolly, John F.; Flannery, Robert J.; and Mc Collum, John D., 3,699,020.

Cyr, Steven J.; Whelan, Mark W.; and Jones, Kenneth L., 3,633,785.

Evans, Richard E.; and Zacher, Harold D., 3,644,199.

Ginsburgh, Irwin; and Runes, Eugene, 3,642,036.

Gutberlet, Louis C.; and Bertolacini, Ralph J., 3,677,972.

Hengstebeck, Robert J., 3,657,110.

Hensley, Albert L., Jr., 3,687,869.

Hoekstra, Gerald B.; and Jacobs, Robert B., 3,674,680.

Jackson, James A., 3,642,883.

Karll, Robert E.; and Lee, Richard J., 3,674,691.

Lee, Richard J., 3,647,692.

Lee, Richard J., 3,681,463.

Lee, Richard J.; and Karll, Robert E., 3,689,561.

Liche, Hubert J.; and Hayne, Wilbur L., 3,657,127.

Longland, George M., Jr., 3,683,018.

McCauley, David A.; Hensley, Albert L., Jr.; and Mahoney, John A., 3,705,096.

Morello, Edwin F., 3,677,992.

Mosby, James F.; and Koller, James C., Jr., 3,654,138.

Nicpon, Philip E., 3,661,802.

Peters, Edwin F.; and Juveland, Omar O., 3,671,432.

Petersen, Richard D.; and Kozinski, Allen A., 3,664,949.

Phillips, James A., 3,685,685.

Piasek, Edmund J.; and Karll, Robert E., 3,697,574.

Piasek, Edmund J.; and Karll, Robert E., 3,704,308.

Poppe, Wassily; Khelghatian, Habet M.; and Lutz, Anthony J., Jr., 3,663,260.

Quinn, Thomas M.; and Villanueva, James G., 3,652,473.

Schaap, Luke A.; and Den Herder, Marvin J., 3,679,588.

Steitz, Alfred, Jr., 3,699,160.

Stephens, James R., 3,661,832.

Thompson, Donald F.; and Quartermus, George D., 3,695,923.

Standard Oil Company, mesne: See—

Khelghatian, Habet M.; Poppe, Wassily W.; and Fitzpatrick, James E., 3,649,476.

Standard Oil Company, The: See—

Benslay, Roger M.; and Jones, Arthur L., 3,652,698.

Boos, Donald L.; and Metcalfe, Joseph E., 3,634,736.

Buzzelli, Edward S., 3,650,834.

- Callahan, James L.; Presson, Robert D.; and Miller, Arthur F., 3,658,877.
 Clark, Ronald D.; and Valus, Ronald J., 3,651,109.
 Coffey, Gerald P.; and Ball, Lawrence E., 3,652,731.
 Coffey, Gerald P.; Ball, Lawrence E.; and Duke, June T., 3,683,052.
 Grasselli, Robert K.; and Friedrich, Maria S., 3,666,822.
 Grasselli, Robert K.; and Friedrich, Maria S., 3,666,823.
 Grasselli, Robert K.; and Miller, Robert C., 3,686,295.
 Hacha, Thomas H., 3,645,792.
 Jones, Arthur L.; and Benslay, Roger M., 3,647,910.
 Ohashi, Kiyoshi; Ohkuni, Morihiko; and Kurayoshi, Otohuru, 3,661,723.
 Shank, Raymond S.; Kallenborn, Vernon H.; and Kennedy, Alice W., 3,682,858.
 Standish, Norman W.; and Yanik, Richard W., 3,637,548.
 Veatch, Franklin; Milberger, Ernest C.; and Presson, Robert D., 3,657,015.
 Vis, Jan H.; and Loder, Wallace R., Jr., 3,685,976.
 Standard Oil Company, The (Ohio): *See—*
 Benak, James L., 3,658,674.
 Boos, Donald L.; and Metcalfe, Joseph E., III, 3,648,126.
 Grasselli, Robert K.; and Hardman, Harley F., 3,642,930.
 Isley, Ralph E., 3,656,027.
 Scovill, Warner E.; and Day, Donald R., 3,704,224.
 Standard Optical Mfg. Company: *See—*
 Okner, Luke, 3,671,111.
 Standard Packaging Corporation: *See—*
 Parvin, Allan I.; and Roome, Douglas P., 3,668,820.
 Standard Pressed Steel Co.: *See—*
 Benz, John W., 3,634,129.
 Carpenter, Mark Richard; and Ludwig, Albert P., 3,638,514.
 Davis, James R.; and Blum, Arthur B., 3,678,978.
 Kleinhenn, Walter H., 3,638,980.
 Kudelko, Arthur G., 3,656,397.
 Kull, Francis R., 3,634,577.
 MacFarlane, Donald B.; and Rathka, Gary T., 3,661,194.
 Waltz, Ronald, 3,661,251.
 Standard Products Company, The: *See—*
 Belser, John W., 3,633,316.
 Dieterich, Melvin L., 3,633,746.
 Dieterich, Melvin L., 3,690,038.
 Green, Harry W.; and Dietrich, Melvin L., 3,635,276.
 Green, Harry W., 3,666,103.
 Green, Harry W., 3,666,106.
 Loew, Theodore, 3,654,062.
 Loew, Theodore, 3,681,887.
 Loew, Theodore, 3,687,502.
 Reid, James S., 3,673,082.
 Ruff, Charles Ernest, 3,687,792.
 Standard Register Company, The: *See—*
 Gabbard, Henry, 3,638,608.
 Skees, Hugh B.; and Mays, John D., 3,635,747.
 Staneck, Robert W.; and Spaleny, George R., 3,688,959.
 Standard Research Institute: *See—*
 Oetzel, George N., 3,705,354.
 Standard Safety Equipment Co.: *See—*
 Treveiler, Antoine Robert; and Wilke, Elroy E., 3,653,690.
 Standard Steel Corporation: *See—*
 Preeman, Marvin B., 3,641,683.
 Standard Telephones and Cables Limited: *See—*
 Andrae, John Hugh, 3,651,516.
 Davies, Robin Evan, 3,651,410.
 Flemming, John Peter Wilfred, 3,659,144.
 Jackson, Thomas Meirion; Bush, Eric Langley; Rowe, Thomas John; and Moule, David John, 3,650,796.
 Nabavi, Christopher Darius, 3,689,708.
 Watson, Christopher Alan, 3,634,632.
 Woodward, Jack Thomas Armon; and Jordan, Edward Graham, 3,641,586.
 Standard Tool & Manufacturing Company: *See—*
 Walters, William D.; and Doocey, Robert J., 3,652,175.
 Zilahy, Zoltan E.; and Dato, Anthony L., 3,646,656.
 Standard-Farrington Alarm & Signal Corporation: *See—*
 Sullivan, Joseph T., 3,667,419.
 Sullivan, Joseph T., 3,688,293.
 Standard-Havens, Inc.: *See—*
 Rheinfrank, Lamson, Jr., 3,647,047.
 Standard-Messo Duisburg Gesellschaft fur Chemietechnik mit beschränkter Haftung & Co.: *See—*
 Messing, Theodor, 3,650,517.
 Standardwerk Eugen, Reis, GmbH: *See—*
 Puhahn, Werner; and Lampert, Rolf, 3,650,086.
 Stander, Cornelius Marthinus, to African Explosives and Chemical Industries Limited. Cobalt oxide catalysts. 3,657,156, 4-18-72, Cl. 252-466.
 Standifer, Richard L.: *See—*
 Heady, Orville E.; Towell, John F.; and Standifer, Richard L., 3,671,199.
 Standiford, Fred W. Locking structure for securing wearing apparel. 3,680,149, 8-1-72, Cl. 2-27.000.

- Standing, Arthur F., to Communications Satellite Corporation. Reduction of intermodulation products. 3,675,138, 7-4-72, Cl. 328-163.000.
 Standish, Norman W.; and Yanik, Richard W., to Standard Oil Company, The. Melamine molding composition. 3,637,548, 1-25-72, Cl. 260-17.3.
 Standley, Mark L.: *See—*
 Banks, Neill K., Jr.; and Standley, Mark L., 3,698,463.
 Standley, Wendell E., to Container Corporation of America. Mechanism for forming gusset folds in container wrappers. 3,701,231, 10-31-72, Cl. 53-48.000.
 Standridge, Robert Ted: *See—*
 Partyka, Richard Anthony; Standridge, Robert Ted; and Hall, Barbara Ann, 3,637,712.
 Standum Inc.: *See—*
 Paramonoff, Elpidifor, 3,664,171.
 Paramonoff, Elpidifor, 3,704,619.
 Standwear Pleating Corporation: *See—*
 Levin, Jordan J.; Semlitz, Edward F.; and Zinamon, Martin, 3,658,019.
 Staneck, Robert W.; and Spaleny, George R., to Standard Register Company, The. Pin belt mechanism for movement of a continuous strip. 3,688,959, 9-5-72, Cl. 226-75.000.
 Staneff, Stefan, to Industriewerk Schaeffler OHG. Method and apparatus for spinning sliver. 3,703,074, 11-21-72, Cl. 57-58.950.
 Stanevich, Anthony, to Teletype Corporation. Selective positioning mechanisms for platens or the like. 3,655,023, 4-11-72, Cl. 197-114.
 Stanfield, Gary W.: *See—*
 Stanfield, Howard E.; Stanfield, Gary W.; and Camp, George F., 3,693,800.
 Stanfield, Harold W., to Square D Company. Molded plastic electrical enclosure with a ground strap. 3,634,598, 1-11-72, Cl. 174-51.
 Stanfield, Howard E.; Stanfield, Gary W.; and Camp, George F., to Acme Products Incorporated. Floating surface skimmer. 3,693,800, 9-26-72, Cl. 210-242.000.
 Stanford, James A.: *See—*
 Brill, Henry L.; and Stanford, James A., 3,707,253.
 Stanford, James R.; and Vogelsang, Paul G., Jr., to Nalco Chemical Company. Phosphated surface active hydroxy amines. 3,692,881, 9-19-72, Cl. 260-928.000.
 Stanford, Melvin E., to Systomation, Inc. Isolation guarding measuring instrument for in-circuit component testing. 3,636,440, 1-18-72, Cl. 324-57.
 Stanford Research Institute: *See—*
 Acton, Edward M.; Leafer, Morris A.; and Stone, Herbert, 3,699,132.
 Adams, David K.; and Ho, Raymond Y.-C., 3,680,011.
 Benson, Sidney W.; Haugen, Gilbert R.; and Jackson, Roland S., 3,647,387.
 Collis, Ronald T. H., 3,696,670.
 Cone, Donald R., 3,663,810.
 Coon, Clifford L., 3,642,824.
 Coon, Clifford L.; and Tegg, Derek, 3,658,903.
 Coon, Clifford L., 3,673,252.
 Cornelius, William L.; and Martner, John G., 3,661,117.
 Cornelius, William L.; and Martner, John G., 3,667,424.
 Cornsweet, Tom N., 3,639,041.
 Macovski, Albert, 3,649,754.
 Macovski, Albert, 3,665,097.
 Skinner, Wilfred A.; and Tong, Homer H. C., 3,636,212.
 Skinner, Wilfred A.; Johansson, John G.; and Johnson, Howard L., 3,676,447.
 Skinner, Wilfred A.; Johansson, John G.; and Johnson, Howard L., 3,702,324.
 Spindt, Charles A.; and Heynick, Louis N., 3,665,241.
 Spindt, Charles A.; and Rogers, Kendal T., 3,675,063.
 Vassiliadis, Arthur; Zweng, Harold C.; Peppers, Norman A.; and Alterton, Lloyd E., 3,703,176.
 Wickersham, Arthur F., 3,705,407.
 Wise, Henry; and Holbrook, Larry L., 3,658,069.
 Wood, Bernard J., 3,702,876.
 Stanford, Robert M. Drive and steering mechanism for tractors. 3,698,498, 10-17-72, Cl. 180-6.200.
 Stanford, Roy A.: *See—*
 Pittman, Ed P.; and Stanford, Roy A., 3,641,427.
 Stanford University: *See—*
 Vassiliadis, Arthur; Zweng, Harold C.; Peppers, Norman A.; and Alterton, Lloyd E., 3,703,176.
 Stangarone, Gene; Cassara, Frank A.; and Dupont, Eugene F., to Automatic Flag Poles, Inc. Automatic flagpole. 3,675,615, 7-11-72, Cl. 116-173.000.
 Stange Co.: *See—*
 Criss, William H.; and Shackelford, John R., 3,699,877.
 Stange, Hugo, to FMC Corporation. Method for dispersing fog with phosphate salt compositions. 3,647,710, 3-7-72, Cl. 252-319.
 Stange, Klaus K.; and Robinson, Thomas K., Jr., to Xerox Corporation. Multi-stylus recorder. 3,644,930, 2-22-72, Cl. 346-74.
 Stange, Klaus K., to Xerox Corporation. Multi-stylus recording assembly. 3,686,679, 8-22-72, Cl. 346-139.00a.

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 Stanger, Bernd: *See—*
 Distler, Harry; Widder, Rudi; Stanger, Bernd; Mueller, Alfred; and Druschke, Wolfgang, 3,687,886.
 Pohlemann, Heinz; Wurmb, Rolf; Kunde, Joachim; and Stanger, Bernd, 3,637,908.
 Stanger, Leo: *See—*
 Leban, Carl, 3,665,450.
 Stanger, Leon J., to Harris-Intertype Corporation. Envelope delay compensation circuit. 3,643,170, 2-15-72, Cl. 328-163.
 Stangl, Anton: *See—*
 Obermaier, Georg; and Stangl, Anton, 3,680,806.
 Stangl, Arnold, to Bolkow Gesellschaft mit beschränkter Haftung. Device for producing missile guiding signals. 3,661,346, 5-9-72, Cl. 244-3.16.
 Stanionis, Constance Veronica: *See—*
 Shankoff, Theodore Arthur; and Stanionis, Constance Veronica, 3,660,091.
 Stanish, Robert B.: *See—*
 Winslow, Frank T.; and Stanish, Robert B., 3,638,342.
 Stanislao, Jean Lawendel: *See—*
 Ponzini, Sandro; Castelli, Paolo; and Stanislao, Jean Lawendel, 3,642,787.
 Stanislavsky, Lazar Yankelevich: *See—*
 Kononov, Boris Leonidovich; Spivak, Boris Volkovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kildishev, Vasily Semenovich; and Stanislavsky, Lazar Yankelevich, 3,683,221.
 Stanislav, Lansy: *See—*
 Paszke, Jan; Psitrocki, Henry; Ploszajski, Janusz; Lachman, Rudolf; Stanislav, Lansy; and Wiszczor, Jan, 3,697,051.
 Stanke, Rudi G., to Johnson Hydraulic Equipment Co. Portable lawn raking devices. 3,678,665, 7-25-72, Cl. 56-13.400.
 Stanke, Walter, to Heinrich Koppers Gesellschaft mit beschränkter Haftung. Sintering machine. 3,666,254, 5-30-72, Cl. 266-21.000.
 Stankovich, Frank M. Motorcycle front end assembly. 3,701,544, 10-31-72, Cl. 280-276.000.
 Stanley Aviation Corporation: *See—*
 Stanley, Robert M., 3,642,236.
 Stanley, Brian. Electronic relay. 3,673,435, 6-27-72, Cl. 307-257.000.
 Stanley, Charles C., to TRW Inc. Production of a line pattern on a glass plate. 3,664,837, 5-23-72, Cl. 96-38.3.
 Stanley, Delmar O., to TRW Inc. Valve seat inserts. 3,701,652, 10-31-72, Cl. 75-126.00a.
 Stanley Denki Kabushiki Kaisha: *See—*
 Tashiro, Kenichi; and Tanaka, Hirokazu, 3,680,024.
 Stanley Drug Products, Inc.: *See—*
 Cook, Elton S.; and Tanaka, Kinji, 3,632,753.
 Cook, Elton S.; and Berberich, Norbert J., Jr., 3,641,247.
 Cook, Elton S.; and Nutini, Leo G., 3,679,793.
 Stanley, Edward B.: *See—*
 Benford, James G.; and Stanley, Edward B., 3,644,185.
 Stanley, Edward B., to United States Steel Corporation. Method of producing electrical sheet steel with cube texture. 3,640,780, 2-8-72, Cl. 148-111.
 Stanley Electric Co., Ltd.: *See—*
 Watanabe, Kazuo, 3,703,620.
 Stanley, Hugh E.; and Tokos, George M., to Crown Zellerbach Corporation. Package of composite film with peelable, heatsealable surfaces. 3,655,503, 4-11-72, Cl. 161-165.
 Stanley, Ian William: *See—*
 Ager, David Joseph; and Stanley, Ian William, 3,670,183.
 Stanley, James W., Jr.: *See—*
 Warner, Paul F.; and Stanley, James W., Jr., 3,637,862.
 Stanley, Joseph A., Jr. Deionizing water with ion exchange resin and regenerating the resin. 3,634,229, 1-11-72, Cl. 210-33.
 Stanley, Kenneth Ernest. Crushing and bending of sections of members. 3,688,550, 9-5-72, Cl. 72-369.000.
 Stanley, Lester N.; and Farris, Russell E., Jr., to GAF Corporation. Pyrrolidonylphenyl azo dyestuffs. 3,666,746, 5-30-72, Cl. 260-152.
 Stanley, Maurice E., to Texaco Inc. Method for inhibiting fouling in a refinery process. 3,666,656, 5-30-72, Cl. 208-48.
 Stanley, Michael R., to Xerox Corporation. Cross-mixing baffle. 3,697,050, 10-10-72, Cl. 259-4.000.
 Stanley, Norval F.: *See—*
 Gardner, William H.; and Stanley, Norval F., 3,637,490.
 Stanley, Paul E.: *See—*
 Rogers, Charles J., Sr.; and Stanley, Paul E., 3,665,252.
 Stanley, Paul H.; deceased (by First Pennsylvania Banking and Trust Co., executor), to Autogiro Company of America. Rotary wing transport aircraft. 3,635,426, 1-18-72, Cl. 244-17.11.
 Stanley, Richard C.; and Lewis, Jesse M., to Midwestern Specialties, Limited. Method for coating pipe. 3,687,704, 8-29-72, Cl. 117-17.000.
 Stanley, Richard C.; Thatcher, Charles R.; and Poore, Ernest C., to Midwestern Specialties, Limited. Method for coating pipe. 3,687,706, 8-29-72, Cl. 117-18.000.

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 Stanley, Robert K., to Techniservice Corporation. Method and apparatus for strand crimping. 3,636,599, 1-25-72, Cl. 28-1.6.
 Stanley, Robert M., to Stanley Aviation Corporation. G-field parachute recovery apparatus and method. 3,642,236, 2-15-72, Cl. 244-138.
 Stanley, Robert W.; Ames, Horace L.; and Jennings, Peter H., to Brenda Mines, Ltd. Process for purifying molybdenite concentrates. 3,674,424, 7-4-72, Cl. 23-15.00w.
 Stanley, Thomas R.; and Mascia, Carmet T., to Continental Can Company, Inc. Metering dispensing closure. 3,687,341, 8-29-72, Cl. 222-455.000.
 Stanley, William L., to United States of America, Agriculture. Preparation of an insoluble active enzyme. 3,672,955, 6-27-72, Cl. 195-68.000.
 Stanley Works, The: *See—*
 Ambler, Edward Curtis; and Scoville, Andrew E., 3,668,470.
 Ambler, Edward Curtis; Bush, Walter R.; and Scoville, Andrew E., 3,668,471.
 Brown, Martin A.; and Stoutenberg, Carl C., 3,689,004.
 Clark, Robert P., 3,665,844.
 MacFarlane, Walter J.; and Russo, Robert R., 3,665,550.
 Merrow, George W., 3,639,013.
 Riley, Terence Gerald, 3,683,498.
 Robertson, John C., 3,650,433.
 Suska, Charles R., 3,650,050.
 West, Robert F., 3,660,895.
 Whitehouse, Hugh L., 3,666,021.
 Stannard, Kenneth Warner: *See—*
 Fulkerson, Emmet Mitchell; Andrews, James Dair; and Stannard, Kenneth Warner, 3,658,682.
 Stannebein, Clifford E., to Case, J. I., Company. Seat suspension system. 3,685,780, 8-22-72, Cl. 248-399.000.
 Stanner, Donald, to General Motors Corporation. Vehicle body closure panel. 3,680,910, 8-1-72, Cl. 296-29.000.
 Stannow, Jorgen Christian, to Danfoss A/S. Thermostatically controlled expansion valve for refrigerating equipment. 3,664,581, 5-23-72, Cl. 236-80.
 Stano, Eugene A., to Florida Juice Vendors, Inc. Vending machine. 3,702,666, 11-14-72, Cl. 222-129.400.
 Stanray Corporation: *See—*
 Allen, John W., 3,651,552.
 Goodhart, Steven E.; and Channels, Alfred C., 3,687,321.
 Hatch, Gerald S., 3,644,952.
 Sanders, Wes E.; and Allen, John W., 3,685,093.
 Stanray Corporation, mesne: *See—*
 Deck, Lester T.; and Kupsky, Fredrick E., 3,672,111.
 Stansbury, Roy E.; and Shotton, James A., to Phillips Petroleum Company. Protecting a buried material such as a cable with water soluble rodent repellent compositions. 3,643,450, 2-22-72, Cl. 61-72.1.
 Stansell, Alpheus F.; and Bennett, Eugene E., to Burroughs Corporation. Coupling for a pneumatic actuated magnetic head. 3,678,480, 7-18-72, Cl. 340-174.10e.
 Stansell, Marion J.; and Stansell, Shelby J., said Stansell, Marion J., assor. to United States of America, Air Force. Portable, self-contained system for analyzing biological fluids or the like. 3,648,159, 3-7-72, Cl. 324-30.
 Stansell, Marion J.; and Cheek, Chandler S., to United States of America, Air Force. System for determining the hydrogen ion concentration of flowing liquids. 3,658,679, 4-25-72, Cl. 204-195.
 Stansell, Shelby J.: *See—*
 Stansell, Marion J.; and Stansell, Shelby J., 3,648,159.
 Stansfield, Manfred D., to Sterling Extruder Corporation. Mixing apparatus and method. 3,685,804, 8-22-72, Cl. 259-10.000.
 Stant, Vernon C.: *See—*
 Black, J. Harold; Reed, Edward W.; and Stant, Vernon C., 3,636,363.
 Stanton, Arthur J.; Kolb, Edwin R.; and Roberts, Webster C., to Harris-Intertype Corporation. Phototypesetting apparatus. 3,670,632, 6-20-72, Cl. 95-4.50r.
 Stanton, David Christopher, to Plastic Innovations Limited. Phonograph record envelope with foam strip. 3,688,898, 9-5-72, Cl. 206-62.00p.
 Stanton, Francis W., Jr.: *See—*
 De Mott, Donald N.; and Stanton, Francis W., Jr., 3,634,294.
 Stanton, Garth M., to Chevron Research Company. Greases containing particulate polymeric diimide thickeners. 3,661,779, 5-9-72, Cl. 252-49.6.
 Stanton, Garth M.; and Drehe, John L., to Chevron Research Company. Greases thickened with quinacridone pigments. 3,692,677, 9-19-72, Cl. 252-25.000.
 Stanton, Jimmy H.: *See—*
 Yang, Kang; Reedy, James D.; and Stanton, Jimmy H., 3,649,197.
 Stanton Magnetics, Inc.: *See—*
 Pauly, Walter W., 3,686,511.
 Stanton, Milton W. Artificial fuel log machine. 3,706,540, 12-19-72, Cl. 44-2.000.

- Stanton, Ronald J.: *See—*
Turner, Richard C.; and Stanton, Ronald J., 3,688,369.
- Stanton, Stephen; and Varholy, Edward, to Flynn & Emrich Company. Electronically controlled stitching machine. 3,664,564, 5-23-72, Cl. 227-100.000.
- Stanton, William O., to Pickering & Company, Inc. Induced magnetic moving iron stereophonic phonograph pickup with replaceable stylus assembly and one common pole piece. 3,646,279, 2-29-72, Cl. 179-100.41.
- Stanton, William G.: *See—*
Blanchet, Raymond J.; and Stanton, William G., 3,704,580.
- Stantus, John J. Dual control device for automobiles. 3,661,033, 5-9-72, Cl. 74-562.5.
- Stanway, David Neil: *See—*
Ellis, Bernard; Petrow, Valdimir; and Stanway, David Neil, 3,641,008.
- Stanway, Edward. Apparatus for the fluid treatment of fabrics in rope form. 3,673,826, 7-4-72, Cl. 68-176.000.
- Stanway, Edward, to Leemetals Limited. Method and machines for dyeing textile piece goods. 3,686,905, 8-29-72, Cl. 68-62.000.
- Stanyon, Horace Edward: *See—*
Beeson, Eric John George; and Stanyon, Horace Edward, 3,634,715.
- Stanyon, Horace Edward; Robinson, Kenneth Buckley; and Beeson, Eric John George, to Thorn Lighting Limited. Xenon lamp. 3,660,711, 5-2-72, Cl. 313-220.000.
- Stanzel, Victor. Jet propelled model vehicle. 3,664,056, 5-23-72, Cl. 46-74.00a.
- Stanzola, Ralph T.; and Shuster, George A., to S&S Research & Development Corporation. Method and apparatus for generating electricity. 3,697,764, 10-10-72, Cl. 290-42.000.
- Stanzwerke Glarus AG: *See—*
Linser, Rudolf, 3,667,709.
- Stapert, James, Jr.: *See—*
Roodvoets, Roger J.; and Stapert, James, Jr., 3,634,941.
- Stapfer, Christian H.: *See—*
Dworkin, Robert D.; and Stapfer, Christian H., 3,649,577.
- Stapfer, Christian H., to Carlisle Chemical Works, Inc. Cobalt II halide complexes of unidentate ligands. 3,649,576, 3-14-72, Cl. 260-22.
- Stapfer, Christian H.; and D'Andrea, Richard W., to Carlisle Chemical Works, Inc. Cobalt II halide ketazine and aldazine complexes. 3,649,663, 3-14-72, Cl. 260-439.
- Stapfer, Christian H., to Cincinnati Milacron Chemicals Inc. Vic-dihydrazonoalkanes as biostats in plastics, paints and textiles. 3,652,496, 3-28-72, Cl. 260-45.9.
- Stapfer, Christian H.; and Shah, Ashok C., to Cincinnati Milacron Chemicals Inc. Novel organotin stabilizer compositions and resin compositions stabilized therewith. 3,654,222, 4-4-72, Cl. 260-45.75.
- Stapfer, Christian H., to Cincinnati-Milacron Chemicals, Inc. Organic acyl thioacetate and thioketal stabilizers for halogenated resins. 3,661,844, 5-9-72, Cl. 260-45.95.
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- Stapfer, Jakob, to Maschinenfabrik Schweizer AG. Thread gauging apparatus. 3,665,568, 5-30-72, Cl. 28-64.000.
- Stapleford, Leonard Ernest, to Baker Perkins Limited. Rotary offset printer with damping roller selectively engageable with print cylinder or blanket cylinder. 3,661,079, 5-9-72, Cl. 101-142.
- Staples, Crawford E.; and Jacobs, William A., to Westinghouse Air Brake Company. Highway crossing signal system. 3,660,652, 5-2-72, Cl. 246-125.
- Staples, John L.: *See—*
Elliott, Brian J.; and Staples, John L., 3,704,416.
- Staples, Paul R., to General Electric Company. Hydraulic thermostat with double throw switch mechanism. 3,656,182, 4-11-72, Cl. 337-319.
- Stapleton, Brian P.; and Sutton, Robert W., to Boeing Company, The. Glide slope antenna system. 3,662,392, 5-9-72, Cl. 343-708.000.
- Stapleton, Fred E.: *See—*
Knight, Paul A.; Saunders, James R.; and Stapleton, Fred E., 3,700,066.
- Stapleton, Geoffrey Brian: *See—*
Sheldon, Robert; and Stapleton, Geoffrey Brian, 3,656,231.
- Stapleton, John R. Sealant compositions comprising esters of cyclic ether alcohols and peroxy catalysts. 3,634,373, 1-11-72, Cl. 260-86.1.
- Stapleton, Raymond D.: *See—*
Knight, Patrick E.; and Stapleton, Raymond D., 3,692,939.
- Stapleton, Richard Joseph, to Bell Telephone Laboratories, Incorporated. Concentrator arrangement for wideband switching. 3,701,849, 10-31-72, Cl. 179-200.0tv.
- Stapleton, Thomas T., to General Motors Corporation. Apparatus for producing an interference pattern. 3,695,749, 10-3-72, Cl. 350-163.000.
- Stapley, Edward O.: *See—*
Hendlin, David; Stapley, Edward O.; Del Val, Sagrario Mochales; and Mata, Justo M., 3,639,590.
- Stapley, Edward O.; Mata, Justo M.; Wolf, Frank J.; and Miller, Thomas W., to Merck & Co., Inc. Process for preparing 6-chloro- α -quinoxaline-carboxylic acid-1,4-dioxide. 3,692,633, 9-19-72, Cl. 195-80.00r.
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- Stapp, Hans: *See—*
Werner, Helmut; and Stapp, Hans, 3,687,759.
- Werner, Helmut; and Stapp, Hans, 3,691,004.
- Stapp, Hans, to Akzona Incorporated. Spinning die. 3,650,659, 3-21-72, Cl. 425-461.
- Stapp, Paul R.: *See—*
Crain, Donald L.; and Stapp, Paul R., 3,658,931.
- Stapp, Paul R., to Phillips Petroleum Company. Dehydrohalogenation of halotetrahydropyrans. 3,639,669, 2-1-72, Cl. 260-345.1.
- Stapp, Paul R., to Phillips Petroleum Company. Synthesis of 3-haloalkyl hydrocarbon-carboxylates and 4-halotetrahydropyrans. 3,644,427, 2-22-72, Cl. 260-345.1.
- Stapp, Paul R., to Phillips Petroleum Company. Production of halogenated esters and unsaturated esters. 3,644,495, 2-22-72, Cl. 260-491.
- Stapp, Paul R., to Phillips Petroleum Company. Production of alkyl alkanates and 3-haloalkyl alkanates. 3,644,496, 2-22-72, Cl. 260-494.
- Stapp, Paul R.; Nowack, Gerhard P.; and Johnson, Marvin M., to Phillips Petroleum Company. Isomerization process. 3,651,092, 3-21-72, Cl. 260-345.1.
- Stapp, Paul R., to Phillips Petroleum Company. Bis-tetrahydropyranyl sulfide. 3,651,093, 3-21-72, Cl. 260-345.9.
- Stapp, Paul R., to Phillips Petroleum Company. Production of alkyl alkanates. 3,657,326, 4-18-72, Cl. 260-491.
- Stapp, Paul R., to Phillips Petroleum Company. Halomethylation of trimethylbenzenes. 3,658,923, 4-25-72, Cl. 260-651.
- Stapp, Paul R., to Phillips Petroleum Company. Preparation of aminotetrahydropyrans. 3,669,992, 6-13-72, Cl. 260-345.1.
- Stapp, Paul R., to Phillips Petroleum Company. Production of 1,3-alkadienes. 3,681,471, 8-1-72, Cl. 260-681.
- Staprans, Armand: *See—*
Symons, Robert S.; Staprans, Armand; and Butwell, Robert J., 3,668,459.
- Star Dental Manufacturing Co., Inc.; a/k/a Star Dental Manufacturing Company Star Dental Mfg. Co., Inc.: *See—*
Lieb, Nathaniel H.; and Kerfoot, Franklin W., Jr., 3,631,597.
- Star Industries, Inc.: *See—*
Ashton, Walter G., 3,639,936.
- Meyer, Leonard; Ashton, Walter G.; and Siegle, James E., 3,701,177.
- Star, Joseph, to Lundy Electronics & Systems, Inc. Digital compass. 3,634,946, 1-18-72, Cl. 33-224.
- Star Lifeline Limited: *See—*
Higgs, William York, 3,703,736.
- Star, Moe, to Northrop Corporation. Modular aircraft structures. 3,640,492, 2-8-72, Cl. 244-124.
- Star Sprinkler Corporation of Florida: *See—*
Gloeckler, Fred A., 3,633,676.
- Star Textiles & Research, Inc.: *See—*
Shapiro, Sumner, 3,636,817.
- Star-Kist Foods, Inc.: *See—*
Vidjak, Frank V., 3,675,273.
- Star-New Era, Inc.: *See—*
Sinnott, David J.; and Alecci, Donald E., 3,702,094.
- Starace, Louis A. Drawer support means. 3,682,524, 8-8-72, Cl. 312-330.000.
- Starcevic, Mihailo, to Aktiengesellschaft Brown, Boveri & Cie. Arrangement for supplying rotor of an electrical machine with a liquid coolant. 3,652,880, 3-28-72, Cl. 310-54.
- Starcher, Paul Spencer; and Ash, Bertrand Donahay, to Union Carbide Corporation. Preparation of bicyclo (2.2.1)hept-2-en-yl-methyl acrylate. 3,681,438, 8-1-72, Cl. 260-486.00r.
- Starck, Clemmens B.: *See—*
Earhart, Howard F.; Jacoby, Frederick J.; and Starck, Clemmens B., 3,635,855.
- Starck, Hermann C.: *See—*
Friedrich, Hans Joachim; and Meyer, Horst, 3,635,693.
- Starck, Hermann C., Berlin: *See—*
Restelli, Attilip, 3,647,420.
- Starck, Walter A., II. Underwater hand light. 3,652,846, 3-28-72, Cl. 240-10.63.
- Starer, Ira; and Papaioannou, Christos George, to American Cyanamid Company. Preparation of 1-(1-substituted-5-nitro-2-imidazolecarboximidoyl)-3-thiosemicarbazides. 3,649,639, 3-14-72, Cl. 260-309.
- Starer, Robert L., to Physitech, Inc. Aircraft flasher unit. 3,676,736, 7-11-72, Cl. 315-241.00r.

- Stargardt, Hans, to United Aircraft Corporation. Filament reinforced gas turbine blade. 3,679,324, 7-25-72, Cl. 416-229.000.
- Starita, Joseph M.; and Macosko, Christopher W. Force measuring apparatus. 3,693,425, 9-26-72, Cl. 73-133.000.
- Stark, Adolf F.; Kolbeck, Winfried; and Bayerlein, Friedrich J., to Diamalt Aktiengesellschaft. Process for the production of N-carbamides of amino acids containing thiol groups. 3,704,318, 11-28-72, Cl. 260-534.00s.
- Stark, Amos J.; and McGinnis, Herbert E., to Goodrich, B. F. Company, The. Catenary roll support for a conveyor belt. 3,700,092, 10-24-72, Cl. 198-192.00r.
- Stark, Bernard Peter: *See—*
Dobinson, Bryan; and Stark, Bernard Peter, 3,707,552.
- Rigby, Colin William; and Stark, Bernard Peter, 3,694,417.
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- Stark, Daniel C., to Deering Milliken Research Corporation. Textile product and process. 3,669,818, 6-13-72, Cl. 161-63.000.
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- Stark, Donald Sutherland, to National Research Development Corporation. Tritium and deuterium impregnated targets for neutron generators. 3,683,190, 8-8-72, Cl. 250-84.500.
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Schenck, William G.; and Stark, Earl T., 3,667,453.
- Stark, Eric K.: *See—*
Gibson, Elmer B.; and Stark, Eric K., 3,650,444.
- Stark, Gary K.: *See—*
Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,648,858.
- Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,675,900.
- Stark, Hans: *See—*
Forste, Walter; Schreiber, Joachim; and Stark, Hans, 3,636,394.
- Stark, Herbert: *See—*
Alexander, Newton C.; Stark, Herbert; and Thornton, Richard C., 3,670,585.
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Husa, Richard; and Stark, James A., 3,669,614.
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Gropper, Hans; Stark, Kurt; Pfannmueller, Helmut; and Urban, Friedrich, 3,660,370.
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Miller, Roy W.; Stark, Marvin; and Shaver, William R., 3,659,724.
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- Stark, Marvin L., to Armco Steel Corporation. Method of finishing galvanized wire. 3,632,411, 1-4-72, Cl. 117-114.
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Babbitt, John H., Jr.; Bell, Richard L.; Riedesel, Edwin L.; and Stark, Sheldon L., 3,632,134.
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- Stark, Turner. Camping shelter employing camper shell as top portion. 3,649,063, 3-14-72, Cl. 296-23.
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Thompson, Robert Q.; Stark, William M.; and Higgins, Calvin E., 3,691,279.
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United States of America, National Aeronautics and Space Administration, 3,632,140.
- Starkie, Granville Lewis: *See—*
Shore, David Teignmouth; and Starkie, Granville Lewis, 3,700,468.
- Starkman Associates, Inc.: *See—*
Starkman, Jesse H.; and Brown, William J., 3,639,309.
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- Starks, Charles M.: *See—*
Johnson, Morris A.; Washecheck, Paul H.; Yang, Kang; and Starks, Charles M., 3,650,918.
- Portwood, Owen, Jr.; Starks, Charles M.; and Washecheck, Paul H., 3,641,163.
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Bickel, David P.; Davis, Melvin H.; Starks, Karl H., Jr.; and Tsoras, John, 3,678,486.
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- Starkweather, Gary K.: *See—*
Hoffman, Sanford G.; Jackson, Earl V.; Starkweather, Gary K.; and Zucker, Edwin, 3,703,335.
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Ferris, Robert G., 3,636,588.
- Ferris, Robert G.; and Ferris, Howard J., 3,665,671.
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Barnard, Paul G.; Starliper, Aaron G.; and Stephenson, James B., 3,676,107.
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Blackwell, John; Gumprecht, William Henry; and Starn, Roy Emerson, Jr., 3,656,991.
- Blackwell, John; Gumprecht, William Henry; and Starn, Roy Emerson, Jr., 3,706,525.
- Starnes, William H., Jr.: *See—*
Salamony, James E.; and Starnes, William H., Jr., 3,700,583.
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Petrov, Vitaly Ivanovich; Ivanov, Alexandr Nikolaevich; Olenin, Jury Leonidovich; Eller, Arnold Oskarovich; Butuzov, Anatoly Akimovich; Basin, Abram Moiseevich; Starobinsky, Vladimir Borisovich; Ratner, Efim Rafailovich; and Potapov, Oleg Fedorovich, 3,659,542.
- Staron, Edward: *See—*
Plattner, Robert F.; Weller, Frank C.; and Staron, Edward, 3,687,059.
- Starp, Franz W. R.; and Racki, Vladimir, to Prontor-Werk Alfred Gauthier, G.m.b.H. Photographic camera with shutter blade system executing reciprocating motion during exposure. 3,635,141, 1-18-72, Cl. 95-53.
- Starp, Franz W. R., to Prontor-Werk Alfred Gauthier, G.m.b.H. Motor driven diaphragm shutter. 3,680,460, 8-1-72, Cl. 95-53.0ea.
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Liebertz, Wolfgang; and Starr, Anthony J., 3,672,799.
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Bruschek, Dieter; and Starr, Frank Clyde, Jr., 3,650,715.

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- Starr, George N. Dispensing device for salt and the like. 3,693,840, 9-26-72, Cl. 222-193.000.
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- Starr, Irving. Paddle with elastic coil ball tether. 3,703,292, 11-21-72, Cl. 273-97.00r.
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- Hiller, Gary L.; Ulbing, Cynthia Geer; and Starr, John E., 3,695,888.
- Starr, Leon; Runyon, David Jon; and Mills, Albert T., to Celanese Corporation. Stabilized oxymethylene polymers. 3,635,882, 1-18-72, Cl. 260-45.9.
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- Starr, Stanley R.: See—
- Edmission, Russell C.; and Starr, Stanley R., 3,677,469.
- Starrett, Forest J., Jr.: See—
- French, Alfred W.; and Starrett, Forest J., Jr., 3,661,082.
- Starrett, George H.: See—
- Hunter, Edwin J.; Starrett, George H.; and Swing, Davison B., 3,682,752.
- Starrett, William Roswell, to Bell Telephone Laboratories, Incorporated. Switching voice and data communications simultaneously over a common path. 3,701,851, 10-31-72, Cl. 179-15.0by.
- Starrfrasmachinen A.G.: See—
- Ronner, Otto, 3,631,759.
- Startin, Kenneth John; and Ahmed, Kamal, to AMP Incorporated, mesne. Multiple cold crimp sleeve plug and socket. 3,675,188, 7-4-72, Cl. 339-220.00r.
- Startman, Paul E., to Parker-Hannifin Corporation. Coupling device for permitting coupling under trapped pressure. 3,646,964, 3-7-72, Cl. 137-614.03.
- Startzman, Paul E., to Philadelphia Manufacturing Company, Inc. Ticket dispenser. 3,679,113, 7-25-72, Cl. 226-76.000.
- Starworth, Irving J. Sectional cartographic globe. 3,683,517, 8-15-72, Cl. 35-46.00a.
- Stary, William R.: See—
- Bieringer, Harold F.; Finley, Lloyd D.; and Stary, William R., 3,635,437.
- Starykh, Nadezhda Timofeevna: See—
- Krylov, Sergei Sergeevich; Starykh, Nadezhda Timofeevna; Chigarev, Alexandr Grigorievich; and Eltsov, Andrei Vasilievich, 3,639,609.
- Stasio, Robert, to Metaframe Corporation. Brine shrimp hatchery. 3,669,074, 6-13-72, Cl. 119-2.000.
- Stasio, Robert. Baby saver for tropical fish. 3,693,591, 9-26-72, Cl. 119-3.000.
- Stasko, William: See—
- Dulis, Edward J.; Kasak, August; and Stasko, William, 3,681,058.
- Stastny, Edwin O.: See—
- Baginski, Albert R.; Okada, David T.; and Stastny, Edwin O., 3,695,148.
- Bennett, William Coffey; and Stastny, Edwin O., 3,690,590.
- Cowell, Robert L.; May, Richard L.; See, Thomas E.; and Stastny, Edwin O., 3,633,924.
- Sims, Anson; Stastny, Edwin O.; and Beny, Janos, 3,641,704.
- Stastny, Fritz: See—
- Gaeth, Rudolf; Pfannmueller, Helmut; Stastny, Fritz; Trieschmann, Hans-George; Tatzel, Hermann; and Zizlsperger, Johann, 3,632,532.
- Gaeth, Rudolf; Stastny, Fritz; Breu, Rudolf; and Gaertner, Friedrich, 3,640,837.
- State Battery Co., Inc.: See—
- Pisaturo, Joseph, 3,661,642.
- State for Defence, Secretary of, mesne: See—
- Newman, Paul; and Maxwell, John, 3,698,145.
- State National Bank: See—
- Alexander, Delbert S., Jr., 3,655,189.
- State of Florida, Department of Citrus: See—
- Atkins, Cedric Donald; and Attaway, John Ahlen, 3,657,424.
- Kesterson, James W.; Hendrickson, Rudolph; and Atkins, Cedric Donald, 3,660,105.
- State of Israel: See—
- Weinberger, Hershel, 3,640,368.
- State of Nebraska: See—
- Anderson, John E.; and Sinnett, Homer Dayle, 3,675,545.
- Osipow, Lloyd I.; and Rosenblatt, William, 3,644,333.
- Statek Corporation: See—
- Staudte, Juergen H., 3,683,213.
- Staten, Hi W.: See—
- Arens, James L.; and Staten, Hi W., 3,676,653.
- Staten, Hi W., Jr.: See—
- Michael, Richard W.; and Staten, Hi W., Jr., 3,697,780.
- Statham Instruments Inc.: See—
- Elazar, Shmuel, 3,699,469.
- Funfstuck, Horst, 3,636,764.
- Funfstuck, Horst; and Elazar, Shmuel, 3,675,643.
- Funfstuck, Horst; and Elazar, Shmuel, 3,677,260.
- Miller, David T., 3,693,370.
- Neville, Dee J., 3,633,042.
- Statham, Louis D.; and Eisele, Walter H. Film dryer. 3,650,040, 3-21-72, Cl. 34-80.
- Statistical Services, Inc.: See—
- Anthony, Myron L., 3,653,047.
- Anthony, Myron L., 3,659,291.
- Anthony, Myron L., 3,680,118.
- Statitrol Corporation: See—
- Blackwell, Lyman L., 3,673,586.
- Statni vyzkumny ustav kozedlny: See—
- Krem, Milan; and Hrabovsky, Vaclav, 3,652,381.
- Plechac, Bohuslav; Ambroz, Miroslav; and Mudrik, Josef, 3,643,339.
- Plechac, Bohuslav, 3,654,781.
- Statni vyzkumny ustav textilni: See—
- Jager, Karel; Schlotzka, Jaroslava; and Kobr, Zdenek, 3,659,411.
- Statton, Gary L.; and Sauer, Richard W., to Atlantic Richfield Company. Solid soluble polymers from 4-vinylcyclohexene diepoxide. 3,674,715, 7-4-72, Cl. 260-2.0ep.
- Staub, Alfred: See—
- Kolliker, Hans-Peter; Staub, Alfred; and Hindermann, Peter, 3,689,510.
- Staub, Carl: See—
- Werner, Hans; Koschinat, Baldur; and Vormbaum, Otto, 3,643,906.
- Staub, Fred W., to General Electric Company. Surface condenser. 3,677,338, 7-18-72, Cl. 165-111.000.
- Staub, Roger Brown: See—
- Kasting, Howard Edward; and Staub, Roger Brown, 3,632,256.
- Stauber, Kurt, to Kronseder, Hermann. Labeling machine with label on-rolling device. 3,658,630, 4-25-72, Cl. 156-566.
- Staubli AG: See—
- Schwarz, Rudolf, 3,703,195.
- Staubli Ltd.: See—
- Hoenig, Ernest, 3,665,972.
- Palau, Joseph; and de Germond, Jacques, 3,667,507.
- Palau, Joseph, 3,680,601.
- Reisdorf, Adolf, 3,665,973.
- Wicker, Walter, 3,683,970.
- Staubus, John W.: See—
- Krocheski, Thomas L.; Meddaugh, Samuel A.; and Staubus, John W., 3,666,968.
- Staud, Miloslav; and Lazarev, Anatolij, to Chepos, Zavody chemického a potravinárskeho strojírenství oborový podnik. Method for pyrolyzing hydrocarbons. 3,692,862, 9-19-72, Cl. 260-683.00r.
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- Staudenmayer, William J.: See—
- Beavers, Dorothy J.; Staudenmayer, William J.; and Perry, Edmond S., 3,632,338.
- Kryman, Frederick J.; and Staudenmayer, William J., 3,679,408.
- Stauder, Bob E.; and Christianson, William O., to Dorsett Electronics; a division of La Barge, Inc. Explosive pulse generator. 3,636,390, 1-18-72, Cl. 310-14.
- Staudhammer, Karl P.: See—
- Kirkpatrick, Milton E.; Reger, Jo L.; and Staudhammer, Karl P., 3,706,614.
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- Staudt, Fredrick J.: See—
- Staley, Charles F.; and Staudt, Fredrick J., 3,645,608.
- Staudt, Heinrich; and Prillwitz, Rolf, to Bosch, Robert, G.m.b.H. Drive shaft positioning device associated with fuel injection pumps. 3,702,577, 11-14-72, Cl. 92-15.000.
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- Staudte, Juergen H., to Statek Corporation. Microresonator of tuning fork configuration. 3,683,213, 8-8-72, Cl. 310-9.600.
- Stauff, Emile: See—
- Melquion, Henri; Stauff, Emile; and Guillot, Jean, 3,654,030.
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- Stauffer, Alfred, to Maschinenfabrik Meyer & Burger A.G. Reciprocating saw. 3,678,918, 7-25-72, Cl. 125-16.000.
- Stauffer Chemical Company: See—
- Adams, Patrick James; and Lewis, Richard Newton, 3,694,478.
- Angstadt, Richard L.; and Bell, Russell N., 3,642,437.
- Baker, Don R.; Menn, Julius J.; and Freiberg, Ashley H., 3,658,812.
- Baker, Don R., 3,660,465.
- Baker, Don R., 3,660,580.
- Baker, Don R., 3,681,439.
- Baker, Don R., 3,692,783.
- Baker, Don Robert, 3,666,773.
- Below, John F., 3,668,282.
- Bernhart, Donald N., 3,686,329.
- Biranowski, Jerome B.; and Weil, Edward D., 3,641,202.
- Blake, Robert J.; and Roy, Guy W., 3,657,367.
- Broadhead, Sharon Ann, nee Rulon, 3,706,575.
- Brokke, Mervin E.; Menn, Julius J.; and Dorman, Stephen C., 3,642,958.
- Brokke, Mervin E., 3,654,293.
- Brokke, Mervin E.; Williamson, Thomas B.; and Lukes, George E., 3,654,333.
- Brokke, Mervin E.; Williamson, Thomas B.; and Lukes, George E., 3,654,362.
- Brokke, Mervin E., 3,666,818.
- Brokke, Mervin E.; Williamson, Thomas B.; and Lukes, George E., 3,689,662.
- Brokke, Mervin E., 3,692,912.
- Brokke, Mervin E., 3,697,536.
- Brokke, Mervin E.; and Williamson, Thomas B., 3,700,668.
- Coll-Palagos, Miguel, 3,632,704.
- Coll-Palagos, Miguel, 3,667,972.
- Coll-Palagos, Miguel, 3,686,020.
- Decker, Donald L., 3,652,359.
- Dyer, James N.; Post, Leo B.; and Rose, Herbert J., 3,650,685.
- Dyer, James N.; Post, Leo B.; and Rosen, Herbert J., 3,684,724.
- Eilers, Kenneth L.; and Kopacki, Adams F., 3,706,686.
- Epstein, Peter F., 3,641,245.
- Erdy, Nicholas Z., 3,691,106.
- Erdy, Nicholas Z.; and Yu, Arthur J., 3,691,107.
- Fancher, Llewellyn W.; and Gray, Reed A., 3,669,642.
- Fancher, Llewellyn W., 3,697,582.
- Fancher, Llewellyn W., 3,700,771.
- Fancher, Llewellyn W., 3,701,799.
- Fearing, Ralph B., 3,666,844.
- Fearing, Ralph B., 3,666,843.
- Fearing, Ralph B., 3,678,165.
- Gallagher, Ruth E.; and Hwa, Jesse C. H., 3,657,172.
- Gaughan, Edmund J., 3,632,597.
- Gaughan, Edmund J., 3,636,206.
- Gentit, William F., 3,637,507.
- Gentit, William F., 3,699,053.
- Gentit, William F.; and Jaffe, Fred, 3,707,501.
- Gillespie, Robert A., 3,653,234.
- Giolito, Silvio L.; and Mirviss, Stanley B., 3,677,948.
- Giolito, Silvio Louis, 3,674,697.
- Groch, Frank O., 3,660,529.
- Gunther, Adolph Peter; Hebel, Kenneth Gerard; and Kuck, Mark Allen, 3,683,701.
- Gutman, Arnold D., 3,642,856.
- Gutman, Arnold D.; and Williamson, Thomas B., 3,644,640.
- Gutman, Arnold D., 3,652,736.
- Gutman, Arnold D., 3,652,737.
- Gutman, Arnold D., 3,655,761.
- Gutman, Arnold D., 3,660,541.
- Gutman, Arnold D., 3,666,839.
- Gutman, Arnold D., 3,681,476.
- Gutman, Arnold D., 3,681,478.
- Gutman, Arnold D., 3,681,479.
- Gutman, Arnold D., 3,692,882.
- Gutman, Arnold D.; and Freiberg, Ashley H., 3,692,900.
- Gutman, Arnold D., 3,703,532.
- Herz, Jack L., 3,637,799.
- Herz, Jack L.; and Weil, Edward D., 3,645,972.
- Hwa, Jesse C. H.; and Gallagher, Ruth E., 3,661,994.
- Hwa, Jesse C. H., 3,696,083.
- Kearnan, James E., 3,635,903.
- Kearnan, James Edward; and Newsbaum, Robert William, 3,706,708.
- Kezerian, Charles, 3,692,901.
- King, James A.; and Maxam, David R., 3,677,406.
- Kohl, Willibald F.; and Ellinger, Rudolph H., 3,681,091.
- Kohl, Willibald F.; Sourby, John C.; and Ellinger, Rudolph H., 3,682,660.
- Kopacki, Adam F.; and Remes, Nathaniel L., 3,645,963.
- Kopacki, Adam Frank, 3,657,382.
- Kraft, Paul, 3,640,954.
- Kraft, Paul; and Brunner, Robert H., 3,691,127.
- Lauck, Robert M., 3,697,292.
- Lee, Hwalin; Pallos, Perenc M.; and Menn, Julius J., 3,701,759.
- Majewski, Helmut W., 3,650,705.
- Martin, Donald J., 3,641,054.
- Martin, Donald J., 3,705,214.
- Mihailovski, Alexander, 3,694,451.
- Mihailovski, Alexander, 3,700,678.
- Mirviss, Stanley B., 3,635,881.
- Mirviss, Stanley B.; Greco, Carl C.; and Stamm, Walter, 3,642,890.
- Mirviss, Stanley B., 3,681,455.
- Mirviss, Stanley B.; and Schlechter, Melvin M., 3,682,905.
- Nichols, George M., 3,642,959.
- Obrecht, Robert P.; Dao, Thomas; and Klingman, Gilbert E., 3,634,200.
- Pitt, Harold M.; and Simone, Raymond A., 3,642,960.
- Price, Glenn R.; and Walsh, Edward N., 3,666,435.
- Rosin, Jacob, 3,704,263.
- Schallis, Alvin, 3,688,992.
- Scher, Herbert B., 3,658,988.
- Shiloff, Jerome C., 3,650,690.
- Smith, Albert L., 3,639,544.
- Sorstokke, Harold E.; Stamm, Walter; and Uhing, Eugene H., 3,694,527.
- Stamm, Walter, 3,635,883.
- Stromberg, Carl E.; and Reynolds, John, 3,698,858.
- Szabo, Karoly; and Freiberg, Ashley H., 3,639,629.
- Teach, Eugene G., 3,642,891.
- Teach, Eugene G., 3,670,010.
- Teach, Eugene G., 3,707,556.
- Tilles, Harry; and Brokke, Mervin E., 3,704,236.
- Toy, Arthur D. F., 3,636,145.
- Toy, Arthur D. F., 3,636,146.
- Toy, Arthur D. F.; and Bell, Russell N., 3,656,890.
- Toy, Arthur D. F.; and Walsh, Edward N., 3,704,144.
- Weil, Edward D.; Stamm, Walter; and Mirviss, Stanley B., 3,636,083.
- Weil, Edward D., 3,666,712.
- Weil, Edward D., 3,674,698.
- Weil, Edward D., 3,695,925.
- Weil, Edward D., 3,697,628.
- Yu, Arthur J.; and Kraft, Paul, 3,686,363.
- Stauffer Chemical Corporation: See—
- Gutman, Arnold D., 3,673,181.
- Romano, Joseph J.; and Shatynski, John J., 3,707,500.
- Stauffer, Dale Adrian, to Miles Laboratories, Inc. Acid addition salts of 5-benzoyl-4-hydroxy-2-methoxybenzenesulfonic acid and 4-aminobenzoic acid ester and derivatives thereof. 3,636,077, 1-18-72, Cl. 260-471.
- Stauffer, John Dale; Arnaud, Edwin Henry, Jr.; and Chrisman, Willis Lee, to Anaconda Wire and Cable Company. Continuously manufactured cable. 3,645,656, 2-29-72, Cl. 18-6.
- Stauffer, Norman L., to Honeywell Inc. Magnetostrictive recording assembly. 3,671,681, 6-20-72, Cl. 179-100.2ch.
- Stauffer, Reuben Laverne, to Bendix Corporation. Low drop voltage regulator. 3,641,423, 2-8-72, Cl. 323-9.
- Stauffer-Wacker Silicone Corporation: See—
- Brooks, Howard Larry, 3,634,285.
- Brooks, Howard Larry, 3,684,756.
- Chadha, Rajendra Nath; and Pande, Kailash Chandra, 3,664,997.
- Davis, Francis Cecil; and Pirie, John Chapman, 3,650,852.
- Geipel, Lothar Ernst, 3,661,962.

- Pepe, Anthony Enrico; Lengnick, Guenther Fritz; and Neuroth, Charles George, 3,661,816.
- Pepe, Anthony Enrico; Lengnick, Guenther Fritz; and Neuroth, Charles George, 3,684,793.
- Stevenson, Joseph Eugene, 3,667,993.
- Stauffer-Wacker Silicone Corporation, *mesne*: *See*—
- Brennan, James Leo; and Ford, Gerald Paul, 3,668,180.
- Hutchinson, William Earl, 3,647,741.
- Lengnick, Guenther Fritz, 3,655,705.
- Lengnick, Gunther F.; and Pande, Kailash Chandra, 3,697,477.
- Staulcup, James T.: *See*—
- Cornish, Rodney H.; Staulcup, James T.; and Chaney, Richard M., 3,672,426.
- Stauner, Thomas: *See*—
- Froehlich, Alfred; Piller, Bernhard; and Stauner, Thomas, 3,671,253.
- Stanton, John J. J., to Perkin-Elmer Corporation, The. Clinical spinner, 3,705,048, 12-5-72, Cl. 117-3.000.
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- Stautzenberger, Adin L.: *See*—
- MacLean, Alexander F.; and Stautzenberger, Adin L., 3,689,377.
- Staveley Machine Tools Limited: *See*—
- Atherton, John, 3,645,639.
- Staver Company, Incorporated, The: *See*—
- Wilkens, Seymour; and Trunk, Edmund G., 3,670,215.
- Stawarski, Chester C.; Gerding, Charles C.; and Adams, Richard T. Releasable supporting apparatus, 3,673,869, 7-4-72, Cl. 73-343.000.
- Stayner, Robert A., to Chevron Research Company. Stable dielectric fluid for electrical discharge machining comprising a mineral oil, a metal sulfonate and a phenolic antioxidant, 3,639,275, 2-1-72, Cl. 252-63.5.
- Stayner, Robert A.; and DeMay, George B., to Chevron Research Company. Electrical discharge machining process and dielectric fluid, 3,648,013, 3-7-72, Cl. 219-69.
- Stayner, Robert A., to Chevron Research Company. Stable dielectric fluid for electrical discharge machining comprising a mineral oil, a metal sulfonate and a phenolic antioxidant, 3,679,857, 7-25-72, Cl. 219-69.000.
- Stayner, Vance A., to Federal-Huber Corporation. Rigidified resinous laminate, 3,707,434, 12-26-72, Cl. 161-161.000.
- Ste, Anne Paper Company Limited: *See*—
- Hamilton, Douglas D., 3,658,104.
- Ste Inter-Elec: *See*—
- Malon, Jean-Pierre, 3,643,090.
- Steacie, John Richard B., to Leigh Instruments Limited. Non-linear counter, 3,631,722, 1-4-72, Cl. 73-386.
- Stead, Cecil Vivian: *See*—
- Andrew, Herbert Francis; and Stead, Cecil Vivian, 3,647,778.
- Griffiths, Geoffrey; and Stead, Cecil Vivian, 3,639,662.
- Griffiths, Geoffrey; and Stead, Cecil Vivian, 3,658,782.
- Steadman Industries (Nassau) Limited, *mesne*: *See*—
- Hand, Albert Michael, 3,664,533.
- Steadman, Rufus F. Drill bit sharpening mechanism for use in conjunction with hand drills, 3,698,140, 10-17-72, Cl. 51-241.00g.
- Steadman, Thomas R.: *See*—
- Roswell, David F.; Kramm, David E.; Wood, Louis L.; and Steadman, Thomas R., 3,644,423.
- Steam Engine Systems Corporation: *See*—
- Gerstmann, Joseph, 3,692,104.
- Steam Power Systems, Inc.: *See*—
- Hodgkinson, Robert, 3,662,553.
- Ste'An Automobiles Citroen: *See*—
- Cadiou, Jean, 3,697,093.
- Stearne, Richard A., to USM Corporation. Shoe lasting machines, 3,667,077, 6-6-72, Cl. 12-8.300.
- Stearns, Charles F.: *See*—
- Colman, Michael E.; and Stearns, Charles F., 3,646,753.
- Stearns, Eldon M., to General Electric Company. Turbine blade tip cooling air expander, 3,703,808, 11-28-72, Cl. 60-39.660.
- Stearns, Richard E., to Tonus, Inc. Music synthesizer keyboard, 3,665,089, 5-23-72, Cl. 84-1.100.
- Stearns, Richard S.; Duling, Irl N.; and Gates, David S., to Sun Oil Company. Synthetic lubricants from low molecular weight olefins, 3,676,521, 7-11-72, Cl. 260-683.100.
- Stearns-Roger Corporation: *See*—
- Vanlingen, George A.; and Pickett, Eugene W., 3,690,715.
- Sease, Ralph E. Apparatus for coating and/or impregnating substantially planar articles, 3,635,193, 1-18-72, Cl. 118-63.
- Seatit-Magnesia Aktiengesellschaft: *See*—
- Jestrzinski, Fritz; Korbis, Dieter; and Schulze, Gerhard, 3,634,805.
- Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich; Sim-pura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshikov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikol-sky, Leonid Alexandrovich. Machine for casting thin-walled large-size pieces, 3,697,038, 10-10-72, Cl. 249-137.000.
- Stebbins, Herve A.; and Stebbins, John A. Multiple sight for archer's bow, 3,670,422, 6-20-72, Cl. 33-265.000.
- Stebbins, John A.: *See*—
- Stebbins, Herve A.; and Stebbins, John A., 3,670,422.
- Stebbins, Marlin R.: *See*—
- Campbell, Theodore A.; Stebbins, Marlin R.; and Peelle, Jonathan W., 3,656,376.
- Stebbins, Ray M. Apparatus for bleeding hydraulic lines, 3,635,262, 10-18-72, Cl. 141-98.
- Stebly, Ralph E., to Phototron Co. Film transport rack, 3,659,514, 5-2-72, Cl. 95-94.
- Stebler, Walter. Device for hermetically sealing the opening for the winding stem in a watch dome, 3,662,536, 5-16-72, Cl. 58-90.
- Stebly, Frank E. Manufacture of insert for drill bit, 3,651,716, 3-28-72, Cl. 76-108.
- Stech, Peter: *See*—
- Born, Dieter; Stech, Peter; and Huebner, Werner, 3,701,535.
- Stecher, Friedhelm, to Goetzwerke Friedrich Goetze A.G. Device for testing components which are subjected to alternating stresses, 3,690,162, 9-12-72, Cl. 73-119.000.
- Stechl, Hanns-Helge: *See*—
- Decker, Martin; Stechl, Hanns-Helge; Palm, Christof; and Buerger, Gert, 3,637,797.
- Steck, Edward S.: *See*—
- Schwiebert, Phillip D.; and Steck, Edward S., 3,667,401.
- Steck, William F., to Weaver, W. R., Company. Sighting device, 3,645,635, 2-29-72, Cl. 356-252.
- Steck, William F., III, to Weaver, W. R., Company. Gun sight, 3,700,339, 10-24-72, Cl. 356-247.000.
- Steckel, Douglas Thomas: *See*—
- Peterson, Rehn Claus; St. Denis, Robert Alexander; and Steckel, Douglas Thomas, 3,663,008.
- Stecker, Merrick C. Dice, card and token box convertible to a dice throwing area, 3,652,086, 3-28-72, Cl. 273-1.
- Stecker, Merrick C. Paint scraper, 3,670,414, 6-20-72, Cl. 30-338.000.
- Steckhahn, Frank L.: *See*—
- Mukai, Cromwell D.; and Steckhahn, Frank L., 3,658,711.
- Steckler, Steven Alan: *See*—
- Limberg, Allen Leroy; and Steckler, Steven Alan, 3,641,361.
- Steckler, Steven Alan, to RCA Corporation. Oscillator with variable reactive current frequency control, 3,636,475, 1-18-72, Cl. 331-117.
- Steckler, Steven Alan, to RCA Corporation. Sample-and-hold circuit, 3,641,258, 2-8-72, Cl. 178-73.
- Steckler, Steven Alan, to RCA Corporation. Transistor signal translating stage, 3,641,448, 2-8-72, Cl. 330-18.
- Steckler, Steven Alan, to RCA Corporation. Electronic signal amplifier, 3,701,032, 10-24-72, Cl. 330-18.000.
- Stecklow, James P. Loose leaf binder with spring biased hold-down bar, 3,684,390, 8-15-72, Cl. 402-69.000.
- Stedefeder, Joachim: *See*—
- Staiger, Gerhard; and Stedefeder, Joachim, 3,639,375.
- Steding, Artur; and Blase, Manfred. Regenerative coke furnace and method of heating it, 3,689,365, 9-5-72, Cl. 201-41.000.
- Stedman, James K.; and Cohen, Ronald, to United Aircraft Corporation. Dual mode fuel cell system, 3,704,172, 11-28-72, Cl. 136-86.00c.
- Stedman, Robert J., to United States of America, Navy. Video gate, 3,700,799, 10-24-72, Cl. 178-6.000.
- Stedman, Robert John, to Smith Kline & French Laboratories. Aminopolycyclodecanes, 3,641,148, 2-8-72, Cl. 260-563.
- Stedman, Robert N.: *See*—
- Peterson, Robert A.; Grooss, Frank A.; Morgan, William C.; Stedman, Robert N.; and Teasdale, Max J., 3,661,214.
- Stedman, Robert N., to Caterpillar Tractor Company. Master link for cushioned track, 3,659,112, 4-25-72, Cl. 305-58.000.
- Stedman, Robert N., to Caterpillar Tractor Company. Protective chain assembly for tires, 3,669,172, 6-13-72, Cl. 152-171.000.
- Stedman, Russell F., to Universal Oil Products Company. Inhibitor injection, 3,689,238, 9-5-72, Cl. 48-190.000.
- Stednitz, Wolfgang Richard Ernst, to Fried. Krupp Gesellschaft mit beschränkter Haftung. Velocity measuring system, 3,691,513, 9-12-72, Cl. 340-3.00d.
- Steed, Frank Streeton; deceased (by Rutherford, Robert Mark; and Steed, Mary Phyllis; executors); and Lawson-Tancred, Henry, to Thompson, Anthony Sigston. Parking apparatus with powered pallets in each parking stall, 3,675,799, 7-11-72, Cl. 214-16.1cb.
- Steed, Mary Phyllis: *See*—
- Steed, Frank Streeton; and Lawson-Tancred, Henry, 3,675,799.
- Steed, Willie L. Pi coupled low noise amplifier, 3,641,452, 2-8-72, Cl. 330-176.
- Steeg, Joachim: *See*—
- Korpiun, Joachim; and Steeg, Joachim, 3,694,330.
- Steeg, Klaus: *See*—
- Maucher, Paul; and Steeg, Klaus, 3,695,404.
- Maucher, Paul; and Steeg, Klaus, 3,695,405.

- Steel Company of Canada Limited, The: *See*—
- Addinall, Ramon L.; Lewis, William T.; and Mudroch, Otokar, 3,679,513.
- Barclay, Allan Sangster, 3,640,175.
- Garfield, James L., 3,695,083.
- Heitmann, Gunter, 3,667,933.
- Heitmann, Gunter, 3,663,201.
- Herman, Hans, 3,672,946.
- Herman, Hans, 3,690,583.
- Monaco, Gaetano, 3,704,993.
- Nagel, Horst; Thumm, Wilhelm; Garbe, Horst; Dailey, William H.; Goedeke, Egon; and Dadazynski, Rolf, 3,704,088.
- Roeder, Gordon A.; and Dailey, William H., 3,689,250.
- Sibakin, Jaroslav George; Roeder, Gordon Alan; and Hookings, Paul Henry Heathcote, 3,690,867.
- Thom, Gee Wing; and Wilson, Keith, 3,666,871.
- Steel Craft Manufacturing Company, The: *See*—
- Ruff, Robert O., 3,649,060.
- Steel, Margaret Lillian: *See*—
- Burgess, Anthony Joseph; Eagles, Alan Charles; and Steel, Margaret Lillian, 3,679,506.
- Steel, Margaret Lillian; and Cross, William Telford, to Imperial Chemical Industries Limited. Forming a pile on an article, 3,696,183, 10-3-72, Cl. 264-164.000.
- Steelcase Company, The: *See*—
- Alderfer, Sterling W., 3,700,012.
- Steelcase, Inc.: *See*—
- Fries, Bernard J., 3,667,716.
- Ostborg, Jan Nathan, 3,691,709.
- Semplonius, Frans; and Kolk, Stephen B., 3,669,499.
- Wolters, Richard H., 3,659,819.
- Wolters, Richard H., 3,662,983.
- Steelcraft Manufacturing Company, The: *See*—
- Fink, Kenneth W., 3,636,672.
- Steele, Byron D. Camper vehicle, 3,659,893, 5-2-72, Cl. 296-23.
- Steele Chemicals Company Limited: *See*—
- Kruger, Gunther, 3,647,829.
- Steele, Clarence R., to CF & I Engineers, Inc. Diffusion apparatus with positive flow controls, 3,666,556, 5-30-72, Cl. 127-7.
- Steele, Clarence R.; Price, Frank B.; and Marshall, John M., to CF & I Engineers, Inc. Apparatus for removing liquid from fibrous materials, 3,697,324, 10-10-72, Cl. 127-2.
- Steele, Clyde W., to Nekosoa Edwards Paper Company, Inc., *mesne*. Steam jet cooking method for making aqueous resin emulsions and compositions containing such emulsions for coating paper, 3,663,483, 5-16-72, Cl. 260-17.2.
- Steele, Dale I., to National Instrument Laboratories, Inc. Gas flow controlling system, 3,653,399, 4-4-72, Cl. 137-334.
- Steele, David J.: *See*—
- Heinrich, Theodore M.; Martin, Robert L.; and Steele, David J., 3,697,850.
- Steele, Duane R.: *See*—
- Hindin, Saul G.; Bair, Daniel L.; and Steele, Duane R., 3,666,813.
- Rylander, Paul N.; and Steele, Duane R., 3,655,777.
- Steele, James W.: *See*—
- McCoy, J. C.; and Steele, James W., 3,700,535.
- Steele, Johathan Peter, to Hoover Company, The. Centrifugal extraction machines, 3,703,091, 11-21-72, Cl. 68-23.100.
- Steele, John K.: *See*—
- Steele, Vincent J., Jr.; and Steele, John K., 3,685,460.
- Steele, Merrell D. Hitch extension means, 3,645,560, 2-29-72, Cl. 280-482.
- Steele, Michael F.: *See*—
- Sladek, Theodore E.; Palmer, John E.; and Steele, Michael F., 3,638,429.
- Steele, Michael F.; and Yates, John S., to Susquehanna Corporation, The. Separation system, 3,696,488, 10-10-72, Cl. 29-200.00d.
- Steele, Michael F., to Susquehanna Corporation, The. Control apparatus, 3,696,686, 10-10-72, Cl. 74-337.500.
- Steele, Robert D.; and Farris, Richard J., to Aerojet-General Corporation. Extensometer and attachment, 3,660,904, 5-9-72, Cl. 33-147.
- Steele, Roger B.; Katzakian, Arthur, Jr.; Scigliano, Joseph J.; and Barry, Jude W., to Aerojet-General Corporation. Catalysis of epoxy resin/carboxylic acid systems with trivalent chromium III tricarboxylate salts, 3,635,869, 1-18-72, Cl. 260-30.4.
- Steele, Terri Giversen, to Western Electric Company, Incorporated. Primary explosive compositions for explosive bonding or forming, 3,704,186, 11-28-72, Cl. 149-35.000.
- Steele, Vincent J., Jr.; and Steele, John K. Pallet prop, 3,685,460, 8-22-72, Cl. 108-51.000.
- Steele, William Henry: *See*—
- Glover, Peter David; Forshaw, Richard; and Steele, William Henry, 3,640,253.
- Glover, Peter David; Forshaw, Richard; and Steele, William Henry, 3,650,252.
- Snodgrass, Kenneth William; Steele, William Henry; Wilson, Alan; and Phelps, Ross Leslie, 3,685,613.
- Steele, William Henry, to Victa Limited. Engine decompression device, 3,704,988, 12-5-72, Cl. 123-182.000.
- Steeley, Roy S., to Dixie-Narco, Inc. Security door for vending machines, 3,680,937, 8-1-72, Cl. 312-138.000.
- Stelman, Gerald E. Litter device, 3,639,926, 2-8-72, Cl. 5-81.
- Stells, Gordon, to Baker Perkins Limited. Dough laminating, 3,698,309, 10-17-72, Cl. 99-450.100.
- Steelweld Limited: *See*—
- Jenkinson, Brian E.; Watson, Geoffrey W.; and Foister, Peter B., 3,635,388.
- Steen, Adam. Method for treating a broken-away refractory lining of a metallurgical furnace, consisting of dolomite bricks, 3,656,902, 4-18-72, Cl. 23-188.
- Steen, Gerhard. Method and apparatus for incinerating solid materials, 3,664,278, 5-23-72, Cl. 110-8.00r.
- Steen, Robert F.: *See*—
- Dixon, Roy C.; Hash, Larry J.; and Steen, Robert F., 3,633,168.
- Steenbergen, Godefridus F., 'Specta' Special-Chemicalien Industrie Ter Apel N.V. Method of preparing lower-alkyl malonates, 3,658,883, 4-25-72, Cl. 260-484.
- Steenmeijer, Jan Paul, to U.S. Philips Corporation. Reed switch, 3,644,854, 2-22-72, Cl. 335-153.
- Steenvoorden, Simon J., to Algemene Kunstzijde Unie, N.V. Process for the production of a sheet material having a shammying effect, and the material thus produced, 3,634,124, 1-11-72, Cl. 117-47.
- Steeley (Mfg.) Ltd.: *See*—
- Lythe, Revor Wilkinson; and Ashworth, Edward Arnold, 3,640,518.
- Steeves, Linda A., to Combustion Engineering, Inc. Dual channel monitoring apparatus, 3,652,898, 3-28-72, Cl. 317-27.
- Steeves, Robert W.: *See*—
- Clough, Philip J.; and Steeves, Robert W., 3,707,433.
- Steeves, W. Malcolm: *See*—
- Harding, Charles I.; Russell, Lamar V.; Steeves, W. Malcolm; and Higgins, Irwin R., 3,660,040.
- Stefan, Celestinus J. Ensilage feeder, 3,688,745, 9-5-72, Cl. 119-52.0af.
- Stefan, Mihaly; Balazs, Fulop; Hegedus, Zoltan; and Tapolcai, Laszlo, to Csepeli Femmu. Gallium containing cold-rolled transformer laminations and sheets with a cubic structure, 3,650,851, 3-21-72, Cl. 148-31.55.
- Stefancin, James M., to Dow Chemical Company, The. Bag dispensing arrangement, 3,679,127, 7-25-72, Cl. 229-62.500.
- Stefanelli, Louis J.: *See*—
- Noll, Charles A.; Feddern, Edward C.; and Stefanelli, Louis J., 3,656,908.
- Stefanelli, William L. Cargo handling system, 3,688,926, 9-5-72, Cl. 214-38.0ba.
- Stefani, Giancarlo: *See*—
- Vecchio, Martino; and Stefani, Giancarlo, 3,686,338.
- Stefani, Hugo, Jr. Apparatus for passively exercising a person's abdominal muscles, 3,674,017, 7-4-72, Cl. 128-25.00r.
- Stefani, Richard D., to GTE Sylvania Incorporated. Short circuit protection device for multiple power supplies, 3,665,253, 5-23-72, Cl. 317-22.
- Stefaniak, Hans: *See*—
- Finsterwalder, Ulrich; Finsterwalder, Klemens; and Stefaniak, Hans, 3,673,624.
- Stefaniszyn, John Joseph, to Northern Electric Company Limited. Anti-ricochet wire guard, 3,661,335, 5-9-72, Cl. 242-25.
- Stefanowitz, Albert J.; and Stefanowitz, Kathleen E. Fishing rod holder, 3,659,815, 5-2-72, Cl. 248-42.
- Stefanowitz, Kathleen E.: *See*—
- Stefanowitz, Albert J.; and Stefanowitz, Kathleen E., 3,659,815.
- Stefanska, Barbara: *See*—
- Ledochowski, Andrzej; and Stefanska, Barbara, 3,694,448.
- Stefansson, Rafn, to Bell & Howell Company. Multiple grid line apparatus for recording oscillographs, 3,646,567, 2-29-72, Cl. 346-23.
- Stefansson, Rafn; and Beanston, Robert A., to Bell & Howell Company. Oscillograph record identification apparatus, 3,673,602, 6-27-72, Cl. 346-107.00a.
- Stefanucci, Arthur: *See*—
- Ponzoni, George Bernard; Protomastro, Michael Gabriel; and Stefanucci, Arthur, 3,634,094.
- Stefanucci, Arthur; and Yadowsky, Slawko. Balanced coffee flavors, 3,682,647, 8-8-72, Cl. 99-68.000.
- Stefanucci, Arthur; and Yadowsky, Slawko. Balanced coffee flavors, 3,700,462, 10-24-72, Cl. 99-68.000.
- Stefanye, David. Process for the bluing of steel surfaces, 3,677,829, 7-18-72, Cl. 148-6.350.
- Stefenel, Rudy S., to Wiltron Company. Variable gain amplifier system, 3,701,036, 10-24-72, Cl. 330-85.000.
- Steffan, William J., to Bunke Concrete Accessories, Inc. Method of making a concrete plug, 3,639,555, 2-1-72, Cl. 264-140.
- Steffel, Ronald V.: *See*—
- Hollingsworth, Gale C.; and Steffel, Ronald V., 3,641,451.
- Steffen, Fred W. Thrust reverser for plug type jet engine nozzle, 3,658,253, 4-25-72, Cl. 239-265.39.
- Steffen, Hermann: *See*—
- Franke, Kurt; and Steffen, Hermann, 3,684,335.

- Steffen, Jurg; and Hofer, Arnold, to Watch Stones Co. Ltd. and Tur-labor AG. Method for the fabrication of holes in a work-piece by means of laser-beams and apparatus for the performance of the aforesaid method. 3,656,988, 4-18-72, Cl. 117-5.5.
- Steffen, Robert: *See—*
Lorch, Otfried; and Steffen, Robert, 3,692,710.
- Steffen, Robert; Crombach, Arno; Lossen, Hermann; and Bieringer, Johann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Foamed plastics from vinyl polymer dispersions and process for their manufacture. 3,639,297, 2-1-72, Cl. 260-5.
- Steffen, Vincent B. Grain drying device. 3,638,331, 2-1-72, Cl. 34-231.
- Steffen, Vincent B. Method of erecting a grain bin. 3,685,232, 8-22-72, Cl. 52-742.000.
- Steffens, David G.: *See—*
Thomas, Buford L.; and Steffens, David G., 3,642,181.
- Steffens, Eric. Lighting devices. 3,662,381, 5-9-72, Cl. 340-378.
- Steffensen, Einar V.; Orshich, John; and Steffensen, John, to McGraw-Edison Company. Primary battery. 3,649,362, 3-14-72, Cl. 136-102.
- Steffensen, John: *See—*
Steffensen, Einar V.; Orshich, John; and Steffensen, John, 3,649,362.
- Steffey, David R.: *See—*
Hayes, Charles F.; and Steffey, David R., 3,640,469.
- Steffgen, Frederick W., to Atlantic Richfield Company. Proportionation of olefins. 3,634,538, 1-11-72, Cl. 260-683.
- Stegelman, Albert F.: *See—*
Gunnell, Thomas J.; and Stegelman, Albert F., 3,636,300.
- Stegenga, Jerry A., to Milgo Corporation. Pen actuating mechanism for graphical display plotter. 3,686,681, 8-22-72, Cl. 346-141.000.
- Steger, Donald J., to International Business Machines Corporation. Compact fluid actuator and method of making it. 3,703,853, 11-28-72, Cl. 92-92.000.
- Steger, Robert Hugo. Heating devices for vehicle windows. 3,636,311, 1-18-72, Cl. 219-522.
- Steggewentz, Hermann: *See—*
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- Steiger, Robert W.; and Skoog, Ralph E., to Delcon Corporation. Number comparing system. 3,683,332, 8-8-72, Cl. 340-146.200.
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Sipos, Donald J.; Steigerwald, Robert F.; and Whitcomb, Newell E., 3,672,876.
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Schuberth, Christian; and Steigerwald, Wolf-Erhard, 3,668,600.
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Loizides, Edward; Lucas, Donald J.; and Steigerwalt, George F., 3,643,226.
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Faith, William T., Jr.; Steigerwalt, Ronald B.; and Robbins, Ernest A., 3,697,285.
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Lydon, Lloyd E.; Steigleder, Charles J.; and Carpenter, Warren E., 3,705,306.
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Adolphi, Heinrich; Steimmig, Anna; and Spaenig, Hermann, 3,641,248.
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Waeselynck, Raymond, 3,642,061.
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Schmitt, Dieter; Stein, Alfred; and Baumer, Wilhelm, 3,661,532.
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Simms, Bernard B.; Stein, Alvin A.; and Larosa, Charles N., 3,696,621.
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King, William L.; and Stein, Edward S., 3,705,963.
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Kaufman, Harold B., Jr.; Schiffmann, Robert F.; and Stein, Ernest W., 3,670,132.
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Goldstein, Arthur M.; Heckman, Erwin M.; and Katcher, Jay, 3,649,616.
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Thron, John E.; Woods, William E.; Bellettiere, Ronald; and Stein, Howard, 3,648,252.
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Vidal, Jean; Parisot, Jean; and Lemoine, Jacques, 3,667,217.
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Findeisen, Heinz H.; Kallmeyer, James D.; Sokol David G.; Stein, James H.; Thomas, Thomas R.; and Bowers, Jack R., 3,676,854.
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Martin, Daniel W.; and Stein, John L., 3,685,384.
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Frenzel, Manfred; and Stein, Karl Vom, 3,706,459.
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Sirrine, Richard C.; and Stein, Leonard, 3,653,120.
- Stein, Michel Guy Pierre, to Societe Anonyme Telecommunications Radioelectriques et Telephoniques, T.R.T. Telegraphy receiver for harmonic telegraphy. 3,647,967, 3-7-72, Cl. 178-88.
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Rathjen, Julius Fred; and Stein, Morris O., 3,636,533.
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- Stein, Reinhardt P.; Smith, Robert C., Jr.; and Smith, Herchel, to American Home Products Corporation. Preparation of steroidal formate esters. 3,647,784, 3-7-72, Cl. 260-239.55.
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- Stein, Robert, to Nash Engineering Company. Ejector apparatus and method of utilizing same. 3,694,107, 9-26-72, Cl. 417-167.000.
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Johnson, Richard T., 3,647,189.
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Berman, Elliot; McLeod, Gerald L.; Pian, Charles H. C.; Stein, Samuel H.; and Pian, Juliette F., 3,658,528.
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- Stein, Walter. Hypodermic syringe. 3,677,246, 7-18-72, Cl. 128-218.00g.
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Umbach, Wilfried; Mehren, Rainer; and Stein, Werner, 3,637,864.
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Simmler, Walter; and Steinbach, Hans-Horst, 3,687,606.
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- Steinbach, Richard L. Correction accessory for hectographic stencils. 3,650,794, 3-21-72, Cl. 117-2.
- Steinbarger, Jay O., to General Motors Corporation. Locking device. 3,644,057, 2-22-72, Cl. 415-218.
- Steinbeck, Hermann: *See—*
Berdt, Hans-Detlef; Steinbeck, Hermann; and Wiechert, Rudolf, 3,646,075.
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- Steinberg, Adalberto; and Ricco, Silvio. Slider buckle for straps and the like. 3,672,007, 6-27-72, Cl. 24-196.000.
- Steinberg, Bertram: *See—*
Roher, Arnold L.; Sprigman, Arthur; and Steinberg, Bertram, 3,635,520.
- Steinberg, David B.; and Sutton, William T., to Corning Glass Works. Means for securing planar member to cathode ray tube faceplate. 3,660,706, 5-2-72, Cl. 313-64.
- Steinberg, David H.: *See—*
Dexter, Martin; Spivack, John D.; and Steinberg, David H., 3,642,868.
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Dexter, Martin; Spivack, John Denon; and Steinberg, David Herbert, 3,677,965.
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Scharf, Hans; Poplat, Gerhard; and Steinberg, Eckhard, 3,657,793.
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Szumila, Anthony D.; Zimnoch, Joseph J.; Bechtel, John D.; and Steinberg, Harvey M., 3,671,865.
- Steinberg, John Charles; and Gray, Kenneth Russell, to International Telephone and Telegraph Corporation. Dispersants from spent sulfite liquor. 3,668,123, 6-6-72, Cl. 252-8.50c.

- Steinberg, Norman Richard: *See—*
Cleaver, John Stephen; Guilford, Peter; Kimpton, Frederick James; Page, Thomas John; and Steinberg, Norman Richard, 3,667,119.
Cleaver, John Stephen; Guilford, Peter; Kimpton, Frederick James; Page, Thomas John; and Steinberg, Norman Richard, 3,688,397.
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Chace, Donald E.; Melvin, James A., Jr.; Ricketts, Alan W., Jr.; Steinberger, Edward P.; and Symmes, David T., 3,701,113.
- Steinberger, Josef: *See—*
Scharfen, Hans; and Steinberger, Josef, 3,698,729.
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Chung, Seng Fang; Kuechler, William L.; and Steinbrunn, George J., 3,656,177.
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- Steinbruegge, Kenneth B.: *See—*
Hopkins, Richard H.; Roland, George W.; Partlow, William D.; and Steinbruegge, Kenneth B., 3,632,523.
Hopkins, Richard H.; Roland, George W.; Steinbruegge, Kenneth B.; and Partlow, William D., 3,679,597.
- Steinbrunn, Gustav: *See—*
Fischer, Adolf; Koenig, Karl-Heinz; Steinbrunn, Gustav; and Zschocke, Albrecht, 3,671,586.
Koenig, Karl-Heinz; Steinbrunn, Gustav; Windel, Hermann; and Fischer, Adolf, 3,671,571.
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Entschel, Roland; and Steinemann, Willy, 3,674,772.
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Bahnsen, Erwin B., 3,631,628.
Bahnsen, Erwin B., 3,635,277.
Bahnsen, Erwin B., 3,637,275.
Bahnsen, Erwin B., 3,643,397.
Bahnsen, Erwin B., 3,650,487.
Bahnsen, Erwin B., 3,684,338.
Bahnsen, Erwin B., 3,695,332.
Bahnsen, Erwin B., 3,698,214.
Luechauer, Louis F., 3,650,667.
- Steiner, Bruce G.: *See—*
Martin, Vincent W.; and Steiner, Bruce G., 3,657,571.
- Steiner Company Lausanne S.A.: *See—*
Boisen, Christian K. F., 3,697,146.
- Steiner, Daniel: *See—*
Otto, Alfred; Klassen, Horst; and Steiner, Daniel, 3,645,364.
- Steiner, Daniel N., *mesne: See—*
Hall, Harold G.; and Palmer, Rufus N., 3,655,092.
- Steiner, Edwin C.: *See—*
Sheetz, David P.; and Steiner, Edwin C., 3,642,879.
- Steiner, Hans Robert: *See—*
Genzel, Hans-Ulrich Werner; Hafeli, Hans-Rudolf; and Steiner, Hans Robert, 3,671,718.
- Steiner, Helmut. Semi-trailer. 3,656,776, 4-18-72, Cl. 280-81.
- Steiner, Josef; and Widmer, Adolf, to Sulzer Brothers Limited. Apparatus for mounting a harness in a weaving machine. 3,675,686, 7-11-72, Cl. 139-1.000.
- Steiner, Karl Ulrich: *See—*
Buecheler, Paul; and Steiner, Karl Ulrich, 3,703,350.
- Steiner, Larry T.: *See—*
Molby, Lloyd A.; Magown, Lloyd L.; and Steiner, Larry T., 3,662,841.
- Steiner, Maurice. Hypodermic syringes, in particular self-injecting syringes. 3,702,609, 11-14-72, Cl. 128-218.00f.
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Nowak, Bernard E.; Cottis, Steve G.; Economy, James; and Steiner, Paul J., 3,644,593.
- Steiner, Riedholz Kurt: *See—*
Gasche, Urs; Lindlar, Herbert; Rutishauser, Max; and Steiner, Riedholz Kurt, 3,700,501.
- Steiner, Rudolf: *See—*
Richter, Friedrich; and Steiner, Rudolf, 3,640,103.
- Steiner, Russell I.: *See—*
Rast, Gustav E.; and Steiner, Russell I., 3,640,733.
- Steiner, Walter. Extensible clothes hanging device. 3,647,073, 3-7-72, Cl. 211-1.3.
- Steiner, William R.: *See—*
Fogt, Thomas H.; Steiner, William R.; and Murphy, John M., 3,670,523.
- Steinfatt, Fritz: *See—*
Kuhle, Engelbert; Klauke, Erich; Hamburger, Brigitte; and Steinfatt, Fritz, 3,636,076.
- Steinger, Jurg Hugo: *See—*
Banse, Karlheinz Victor Hermann; Seelig, Wolfgang Hagen; Steinger, Jurg Hugo; and Herziger, Gerd Bernd, 3,705,999.
- Steingiser, Samuel: *See—*
Ray, James D.; Steingiser, Samuel; and Cass, Robert A., 3,671,411.
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- Steinhardt, Ralph G.; and Calhoun, Julia W. Self-slitting spectroscopy. 3,687,518, 8-29-72, Cl. 356-74.000.
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Valenta, Joseph C.; and Steinhauer, Alfred F., 3,634,272.
Valenta, Joseph C.; and Steinhauer, Alfred F., 3,645,906.
- Steinhaus, James F.: *See—*
Osher, John E.; Kinney, John D.; and Steinhaus, James F., 3,678,323.
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- Steinhauser, Incorporated: *See—*
Steinhauser, Wilbur L., 3,701,468.
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- Steinhilber, Georg: *See—*
Ebert, Alfred; Pirot, Ernst; Holler, Fritz; and Steinhilber, Georg, 3,650,644.
- Steinhiser, Paul F. Two wheel roller skate. 3,693,988, 9-26-72, Cl. 280-11.230.
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- Steinhoff, Neal K. Combined car-top carriers and shelters. 3,652,000, 3-28-72, Cl. 224-42.01.
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McDermott, Clifton E.; and Steinicke, Darrell B., 3,660,916.
- Steininger, Alfred: *See—*
Kuhls, Jurg; Hahn, Helmut; and Steininger, Alfred, 3,654,210.
- Steinkamp, Robert A.: *See—*
Insolio, Thomas A.; Guzowski, Richard M.; and Steinkamp, Robert A., 3,682,027.
- Steinke, Fred J., to Reliance Electric Company. Bushing and method of manufacturing. 3,677,583, 7-18-72, Cl. 287-52.060.
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Rousseau, Roy S.; Keating, Raymond J.; and Steinke, Gary L., 3,664,085.
- Steinke, Richard C., to Idaho Pars, Inc. Trailer apparatus. 3,684,308, 8-15-72, Cl. 280-140.000.
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Bruns, Paul-Heinz, 3,704,586.
Kluge, Hans, 3,632,316.
Krieb, Karl Heinz; and Zimmermann, Fritz, 3,704,587.
Scheubel, Franz Nikolaus, 3,682,114.
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Buehler, Arthur; and Steinlin, Felix, 3,706,698.
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Schwarz, Walter; and Steinmair, Karl, 3,645,519.
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Steinman, Charles, 3,633,582.
- Steinman, Martin, to Schering Corporation. 1,1-diaryl-2-adamantyl ethylene compounds. 3,663,602, 5-16-72, Cl. 260-479.
- Steinman, Shirley A.: *See—*
Steinman, Charles, 3,633,582.
- Steinmann, Eugene B., Jr. Shaft and cup dent puller. 3,635,072, 1-18-72, Cl. 72-457.
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Helmig, Richard W.; and Steinmetz, Floyd, 3,667,352.
Ward, Henry D., Jr.; and Steinmetz, Floyd, 3,667,353.
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Thomas, Jeffery R.; and Steinmetz, Ib., 3,663,427.
Thompson, Sheldon L.; Kress, Rene F.; Olenzak, Albert T.; and Steinmetz, Ib., 3,666,657.
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- Steinmiller, William George, to Fiber Industries, Inc. Flange false twist textured nylon. 3,651,633, 3-28-72, Cl. 57-140.
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Dietert, Harry W.; and Steinmueller, Ralph E., 3,638,478.
- Steinmuller, L. & C., G.m.b.H.: *See—*
Clemens, Kurt; and Klein, Hans, 3,652,823.
Jung, Richard; and Lenkewitz, Horst, 3,640,475.
Jung, Richard, 3,640,499.
Seibold, Rudolf, 3,675,628.
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Jantzen, George H., 3,645,549.
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Lechler, Rolf; and Steinwart, Johannes, 3,691,999.
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- Steiro, Harry, to Wisconsin Foundry and Machine Company. Self-contained unloading apparatus. 3,667,620, 6-6-72, Cl. 214-1.00p.
- Steitz, Alfred, Jr., to Standard Oil Company (Indiana). Purification of phenylindane carboxylic acids by permanganate treatment of the sodium salts. 3,699,160, 10-17-72, Cl. 260-525.000.
- Steitz, William R.; Bradley, Robert O.; and Waterworth, Thomas H., 50% each to Toledo Engineering Co., Inc. and Elemelt, Ltd. Electric glass furnace. 3,634,588, 1-11-72, Cl. 13-6.
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Germino, Felix Joseph; Stejskal, Joseph Frank; Christensen, Edwin Hans; and Kite, Francis Ervin, 3,661,895.
- Stelber Industries Inc.: *See—*
Cristie, Martin, 3,650,363.
- Stelck, Lionel L., to Multi-Photo Camera Corporation. Camera providing exposures of multiple areas of a photographic medium. 3,650,186, 3-21-72, Cl. 95-1.1.
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Liljeholm, Sten, 3,666,150.
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Lindsey, James M.; and Stell, Thomas W., 3,703,832.
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Charlesworth, David, 3,707,398.
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Gordy, John; and Harris, Douglas R., 3,703,453.
- Steller, Kenneth E., to Hercules Incorporated. Polymerization catalysts. 3,642,667, 2-15-72, Cl. 260-2.
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- Stelling, Walter R., Jr.; Siegal, Burton L.; and Talbott, Michael M., to Orbitex, Inc. Method of and apparatus for making honeycomb core. 3,655,475, 4-11-72, Cl. 156-197.
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- Steltz, Douglas C., to Portex, Inc. Device for fluidizing stored material. 3,656,812, 4-18-72, Cl. 302-53.
- Steltzer, Ernest R.: *See—*
Adams, John F.; and Steltzer, Ernest R., 3,692,998.
- Steltzer, Ernest R.; and Nitsch, Edward J., to Dietz, R. E., Co. Vehicle marker light having metal strap extending into cupped lens. 3,656,105, 4-11-72, Cl. 340-119.
- Stelzer, Ernest L.: *See—*
Scott, Myrskyl W.; and Stelzer, Ernest L., 3,638,026.
- Stelzer, Robert A.: *See—*
Wolf, David L.; and Stelzer, Robert A., 3,638,506.
- Stelzer, Werner: *See—*
Stohr, Rudolf; and Stelzer, Werner, 3,668,793.
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Hayes, Edward J.; and Stelzer, William, 3,653,725.
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- Stelmuller, Franz: *See—*
Winter, Ernst Jakob; and Stelmuller, Franz, 3,689,186.
- Stelzried, Charles T.: *See—*
United States of America, National Aeronautics and Space Administration, 3,702,979.
- Stember, Daniel L.: *See—*
Meyer, Roy E.; and Stember, Daniel L., 3,696,241.
- Stemco Manufacturing Company, Inc.: *See—*
Kirkland, Kenneth C., Jr.; and Hunt, Raymon E., 3,679,024.
- Stemkovsky, Evgeny Petrovich: *See—*
Mescheryak, Sergei Nikolaevich; Stemkovsky, Evgeny Petrovich; Pentegov, Igor Vladimirovich; Vorona, David Semenovich; and Moravsky, Vladislav Eduardovich, 3,644,699.
- Pentegov, Igor Vladimirovich; Semergeev, Stepan Ivanovich; Sheikovsky, Dmitry Alexeevich; Mescheryak, Sergei Nikolaevich; Stemkovsky, Evgeny Petrovich; Litvin, Leonid Vladimirovich; and Shelest, Nikolai Antonovich, 3,663,909.
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- Stemme, Otto: *See—*
Futterer, Bodo; Stemme, Otto; and Mayer, Jurgen, 3,690,043.
- Stemmer, August L.; Kahn, Paul; and Stubstad, James A., to Cutter Laboratories, Inc. Bone prosthesis. 3,683,422, 8-15-72, Cl. 3-1.000.
- Stemmer, Hans Dieter: *See—*
Kaiser, Eduard; Korbanka, Helmut; and Stemmer, Hans Dieter, 3,651,034.
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- Stemmler, Kurt, to Winkler & Dunneber Maschinenfabrik und Eisengiesserei KG. Apparatus for folding the closing flap of envelopes. 3,668,982, 6-13-72, Cl. 93-62.000.
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- Stemp, Leslie William, to Cowl Industries Limited. Spiral Muffler. 3,692,142, 9-19-72, Cl. 181-50.000.
- Stempel, Arthur: *See—*
Berger, Leo; Grunberg, Emanuel; Stempel, Arthur; and Sternbach, Leo Henryk, 3,657,436.
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- Sten, Walter G.: *See—*
Salzberg, Harold Karl; and Sten, Walter G., 3,644,615.
- Stenbacka, Johan Runar, to Atlas Copco Aktiebolag. Rotary power tool having automatic torque shift. 3,696,871, 10-10-72, Cl. 173-12.000.
- Stenberg-Flygt AB: *See—*
Carlsson, Konrad Valdemar, 3,656,871.
- Dahlgren, Jens Karl Adolf; and Brandt, Bengt-Ake Rudolf, 3,653,785.
- Dahlgren, Jens Karl Adolf, 3,659,964.
- Nordin, Lars-Erik Reinhold; and Mollerfors, Lars William Anshelm, 3,705,602.
- Stahl, Filip Torvald, 3,643,967.
- Wikholm, Sture Sven-Olof; and Sjostrand, Carl Evert, 3,687,576.
- Stencel Aero Engineering Corporation: *See—*
Stencel, Fred B.; and Peck, Walter R., 3,648,955.
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Lorenz, Walter; Fest, Christa; Hammann, Ingeborg; Federmann, Manfred; Flucke, Winfried; and Stendel, Wilhelm, 3,689,648.
Schraeder, Gerhard; Hammann, Ingeborg; and Stendel, Wilhelm, 3,641,221.
Schraeder, Gerhard; Hammann, Ingeborg; Stendel, Wilhelm; Unterstenhofer, Gunter; and Homeyer, Bernhard, 3,652,740.
Sirrenberg, Wilhelm; Hammann, Ingeborg; Behrenz, Wolfgang; Stendel, Wilhelm; and Unterstenhofer, Gunter, 3,652,742.
Wollweber, Hartmund; Hiltmann, Rudolf; and Stendel, Wilhelm, 3,686,199.
- Stendenbach, Karl-Heinz: *See—*
Muller, Fritz; Stendenbach, Karl-Heinz; and Weizenkorn, Horst-Heinrich, 3,684,461.
- Stene, Manfred, to Erickson Electrical Equipment Co. Pole mechanism for double-throw pressure contact switch. 3,646,299, 2-29-72, Cl. 200-162.
- Stengel, Edgar: *See—*
Seulen, Gerhard; Reinke, Friedhelm H.; and Stengel, Edgar, 3,682,721.

- Stengelin, John Conrad. Tank for the purification of waste water. 3,687,299, 8-29-72, Cl. 210-523.000.
- Stenger, August M. Oil distribution system. 3,687,232, 8-29-72, Cl. 184-6.800.
- Stenger, Joseph D. Compressed gas operated engine. 3,650,179, 3-21-72, Cl. 91-176.
- Stenger, Richard E.; and Gleason, Clifford C., to General Electric Company. High fuel injection density combustion chamber for a gas turbine engine. 3,653,207, 4-4-72, Cl. 60-39.65.
- Stenger, Vernon A.; and Kramer, Walter R., to Dow Chemical Company. The Process for solution mining of silver. 3,647,261, 3-7-72, Cl. 299-4.
- Stenger, Vernon A.; and Kramer, Walter R., to Dow Chemical Company. The Process for producing anhydrous sodium chloride and purified saturated brine. 3,655,333, 4-11-72, Cl. 23-89.
- Stenger, Vernon A., to Dow Chemical Company. The Mercury recovery from sediment. 3,679,396, 7-25-72, Cl. 75-81.000.
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- Stenlund, Stig: *See—*
- Lagerqvist, Roger; and Stenlund, Stig, 3,677,141.
- Stenlund, Stig Gote, to Monsun-Tison AB. Self-aligning mounting device, particularly for hydraulic or pneumatic cylinders. 3,679,276, 7-25-72, Cl. 308-26.000.
- Stenmark, Donald G., to Esso Research and Engineering Company. Production of aromatics. 3,701,813, 10-31-72, Cl. 260-668.00a.
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- Stigmark, Karl Adolf Lennart; Jonsson, Nils Ingvar; Lofqvist, Jan Wilhelm; and Stenram, Hakan Christian Mikael, 3,656,456.
- Stensholt, Erling Olav: *See—*
- Hougen, Lelf Reidar; and Stensholt, Erling Olav, 3,684,481.
- Stenson, Raymond A. Pick-up truck loading ramp. 3,642,156, 2-15-72, Cl. 214-85.
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- Stenz, Herbert: *See—*
- Witte, Wolfgang; and Stenz, Herbert, 3,664,742.
- Stenzel, Donald W.: *See—*
- Stenzel, Robert N.; and Stenzel, Donald W., 3,698,548.
- Stenzel, Jurgen A.: *See—*
- Scott, Milton J.; and Stenzel, Jurgen A., 3,650,732.
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- Osberg, Edward V.; and Beck, Walter, 3,699,173.
- Stepanek, Frank E.: *See—*
- Lelyk, William; and Stepanek, Frank E., 3,680,731.
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- Stepanek, Roy W., to Pettibone Corporation. Crusher. 3,647,150, 3-7-72, Cl. 241-75.
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- Makachev, Nikolai Ivanovich; Parshin, Alexei Nikolaevich; Smurov, Georgy Sergeevich; and Stepanets, Alexei Trofimovich, 3,640,316.
- Stepanian, Ernst Arakelovich: *See—*
- Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Idayatov, Tofik Kudrat Ogly; Proshian, Nea Eachievna; Sarkisov, Rafael Tevosovich; and Stepanian, Ernst Arakelovich, 3,651,774.
- Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Kamalov, Gennady Nikolaevich; Sarkisov, Rafael Tevosovich; Stepanian, Ernst Arakelovich; and Shakhmaliev, Rustam Makhmud Ogly, 3,656,381.
- Stepaniuk, Nickolas J.: *See—*
- Betz, Norman L.; and Stepaniuk, Nickolas J., 3,674,501.
- Stepanov, Evgeny Alexeevich: *See—*
- Kotov, Evgeny Pavlovich; Legostov, Viktor Vladimirovich; Stepanov, Evgeny Alexeevich; Chuchalov, Alexandr Mikhailovich; Maiorov, Nikolai Kuzmich; Merezko, Gennady Pavlovich; Komarov, Anatoly Semenovich; and Sosnitsky, Nikolai Georgievich, 3,694,570.
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- Otto, Friedrich, 3,631,909.
- Stephan, Gerhard; Harst, Heinz; Laux, Gunter; and Kappes, Alfred, to NSU Motorenwerke Aktiengesellschaft and Wankel G.m.b.H. Process for producing a wear-resistant surface on a workpiece. 3,640,799, 2-8-72, Cl. 204-38.
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- Eggensperger, Heinz; Franzen, Volker; Muller, Horst; and Stephan, Hans, 3,637,802.
- Eggensperger, Heinz; Franzen, Volker; and Stephan, Hans, 3,655,833.
- Stephan, Hans Werner: *See—*
- Seifert, Helmut; Stephan, Hans Werner; and Dorn, Friedrich Wilhelm, 3,692,917.
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- Stephan, John T.; and Golick, Alex James, to Commercial Solvents Corporation. Protein adhesive compositions. 3,640,740, 2-8-72, Cl. 106-138.
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- Lauer, Karl; and Stephan, Peter, 3,692,579.
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- Reinhard, Hans; Welzel, Gerhard; Frank, Hans-Ulrich; and Stephan, Rudolf, 3,657,031.
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- Stephanoff, Nicholas N., to Fluid Energy Processing & Equipment Company. Constant acceleration fluid energy mill. 3,648,936, 3-14-72, Cl. 241-5.
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- Stephans, Larry C.: *See—*
- Brown, Lloyd H.; and Stephans, Larry C., 3,692,085.
- Stephansen, Erik W.: *See—*
- Goetz, David J., Jr.; and Stephansen, Erik W., 3,678,594.
- Stephansen, Erik W., to Bechtel International Corporation. Microwave drying apparatus. 3,672,066, 6-27-72, Cl. 34-1.000.
- Stephen, George A., Jr. Gas fired barbecue kettle. 3,688,758, 9-5-72, Cl. 126-41.00r.
- Stephen, Keith H.: *See—*
- Mowrey, Rowland G.; Stephen, Keith H.; and Wolfarth, Eugene F., 3,706,561.
- Stephen, R. A., & Company Limited: *See—*
- Cooper, Paul Neville; and Tymons, Bryan John, 3,707,632.
- Stephen William Tonkin, to British Aircraft Corporation, Limited. Dampers for spinning bodies. 3,685,770, 8-22-72, Cl. 315-1.0sa.
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- Beereboom, John J.; Cameron, Donald P.; and Stephens, Charles R., 3,647,479.
- Stephens, Curtis L., to Eastman Kodak Company. Method of forming heterogeneous photoconductive compositions and elements. 3,679,407, 7-25-72, Cl. 96-1.600.
- Stephens, Dennis T.; and Flees, Peter, to Hoover Ball and Bearing Company. Pallet accessory. 3,702,676, 11-14-72, Cl. 229-14.00c.
- Stephens, Donald H.: *See—*
- Gunther, Gregory M.; Fekete, Ferenc; Liedtke, Ronald R.; and Stephens, Donald H., 3,643,374.
- Stephens, Donald S.: *See—*
- Hunt, Clarence W.; Johnston, Ralph W.; and Stephens, Donald S., 3,657,677.
- Johnston, Ralph W.; Stephens, Donald S.; Miller, Robert W.; Hunt, Clarence W.; and Kleic, Frank J., 3,652,968.
- Stephens, Edward: *See—*
- Cross, Dennis Rowland; and Stephens, Edward, 3,665,287.
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- Stephens, Frank H., Jr.; Byrne, Paul B.; and Anderson, Edward P., to Engelhard Minerals & Chemicals Corporation. Electrical ground filter means for boats supplied with a shore-based source of alternating current power. 3,636,409, 1-18-72, Cl. 317-18.
- Stephens, Frederick N.; Rowlett, Glenford; and Beard, James D., to Stephens Industries, Inc. Method and apparatus for opening envelopes. 3,691,726, 9-19-72, Cl. 53-381.000.
- Stephens, Howard L.; and Reed, Thomas F., to United States of America, Agriculture. Polysaccharide-reinforced rubber. 3,645,940, 2-29-72, Cl. 260-17.4.
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- Coombs, Ivan G., 3,671,710.
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- Stephens, Leonard W., to Palmer Filter Equipment Company. Reversible one-way clutch. 3,679,031, 7-25-72, Cl. 192-44.000.
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- Stephens, Robert K., to Polaroid Corporation. Novel photographic products and processes. 3,676,123, 7-11-72, Cl. 96-29.000.
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- Van Dyck, Kenneth A.; King, Phillip W.; and Stephenson, Charles F., 3,635,372.
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- Stephenson, George M.; and Soriano, Charles A. (said Soriano assor. to said), 3,650,438.
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- Barnard, Paul G.; Starliper, Aaron G.; and Stephenson, James B., 3,676,107.
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- Miller, Robert B., Jr.; and Stephenson, Jerry E., 3,692,184.
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- Lohr, Thomas E.; and Stephenson, Robert L., 3,663,057.
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- Kalner, Veniamin Davidovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Ryskind, Alexandr Moiseevich; Semenov, Viktor Nikolaevich; Stepin, Anatoly Loginovich; Surov, Mikhail Andreevich; Shepelyakovskiy, Konstantin Zakharovich; and Shklyarov, Isaak Nakhimovich, 3,696,225.
- Nikonov, Vladimir Filippovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Riskind, Alexandr Moiseevich; Stepin, Anatoly Loginovich; Shepelyakovskiy, Konstantin Zakharovich; and Shklyarov, Isaak Nakhimovich, 3,684,854.
- Ostrovsky, Grigory Arkadievich; Orlovsky, Anatoly Georgievich; Nikonov, Vladimir Filippovich; Kalner, Veniamin Davidovich; Shklyarov, Isaak Nakhimovich; Stepin, Anatoly Loginovich; Bysink, Alexandr Moiseevich; Shepelyakovskiy, Konstantin Zakharovich; and Smrnov, Stanislav Ivanovich, 3,655,466.
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- Moschel, Albrecht; Luders, Walter; and Steppan, Hartmut, 3,699,086.
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- McCorkle, David D., 3,664,903.
- Stereo-Optics, Inc.: *See—*
- Richter, Ernst, 3,687,048.
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- Bruce, Roger K., 3,653,111.
- Sterigard Corporation: *See—*
- Bruce, Roger K., 3,664,557.
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- Sterlicchi, Helen; and Sterlicchi, Pasquale J., 3,647,215.
- Sterlich, Heinrich. Device for automatic plant watering. 3,696,827, 10-10-72, Cl. 137-79.000.
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- Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Idevich; Zhabin, Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhikhin, Vladimir Petrovich; Rubnikov, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Uryaslav Iosifovich; Sharipova, Ravia Davlyatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorievich, 3,654,325.
- Sterling Coated Materials Limited: *See—*
- Sorrell, Stanley Edward, 3,675,844.
- Sterling Detroit Company: *See—*
- Canner, Herman M., 3,668,941.
- Sterling Drug Inc.: *See—*
- Ackerman, James H., 3,637,825.
- Ackerman, James H., 3,647,864.
- Ackerman, James H., 3,655,669.
- Ackerman, James H.; and Laidlaw, George M., 3,655,752.
- Ackerman, James H., 3,660,408.
- Ackerman, James H., 3,666,760.

- Albertson, Noel F.; and Archer, Sydney, 3,632,591.
 Albertson, Noel F.; Rosi, David; and Merola, Armando J., 3,639,410.
 Albertson, Noel F.; and Michne, William F., 3,639,411.
 Albertson, Noel F.; and Wetterau, William F., 3,678,056.
 Alexander, Ernest John; and Mooradian, Aram, 3,687,969.
 Archer, Sydney, 3,635,991.
 Archer, Sydney, 3,639,414.
 Archer, Sydney; and Schulenberg, John W., 3,676,444.
 Archer, Sydney; and Lorenz, Roman R., 3,679,752.
 Archer, Sydney; and Schulenberg, John W., 3,684,813.
 Archer, Sydney; and Bailey, Denis M., 3,692,790.
 Bailey, Denis M., 3,639,478.
 Bailey, Denis M., 3,657,229.
 Bailey, Denis M., 3,674,793.
 Bailey, Denis M., 3,686,184.
 Bailey, Denis M., 3,700,697.
 Bell, Malcolm R.; Carlson, John A.; and Oesterlin, Rudolf, 3,666,770.
 Burant, Walter, Jr., 3,658,262.
 Carabateas, Philip M., 3,644,362.
 Carabateas, Philip M., 3,655,675.
 Carabateas, Philip M., 3,679,690.
 Clinton, Raymond O., 3,676,426.
 Clinton, Raymond O., 3,704,295.
 Collins, Joseph C., 3,647,782.
 Crounse, Nathan N., 3,642,642.
 Crounse, Nathan N., 3,689,425.
 Cutler, Royal A.; and Schalit, Samuel, 3,652,766.
 Cutler, Royal A.; and Schalit, Samuel, 3,692,625.
 Diana, Guy D., 3,673,201.
 Dickinson, William B., 3,682,962.
 Diddams, Donald Guy; and Renaud, Norman Ernest, 3,686,322.
 Gorman, William G.; and Katz, Erich, 3,692,898.
 Gubitz, Franklyn W., 3,697,505.
 Kirchner, Frederick K., 3,647,819.
 Kirchner, Frederick K., 3,651,057.
 Leshner, George Y., 3,642,797.
 Leshner, George Y.; and Gruett, Monte D., 3,673,193.
 Leshner, George Y., 3,697,531.
 Matthiesen, Albert H., 3,647,687.
 Miller, Theodore C., 3,686,223.
 Mooradian, Aram, 3,642,816.
 Mooradian, Aram; and Dupont, Paul E., 3,657,350.
 Page, Donald E., 3,655,691.
 Pradt, Louis A.; Gitchel, Wayne B.; and Hoffman, Clarence A., 3,654,070.
 Pradt, Louis A., 3,661,778.
 Rosenberg, Franklin J.; and Miller, James G., 3,689,655.
 Schulenberg, John W., 3,644,384.
 Siggins, James E., 3,657,325.
 Slighter, Ralph G.; and Berberian, Dicran A., 3,663,693.
 Stonner, Frederik W., 3,657,435.
 Teletzke, Gerald H.; Knopp, Paul V.; and Erickson, Allen H., 3,697,417.
 Tullar, Benjamin F.; and Lorenz, Roman R., 3,682,991.
 Sterling Engineering and Manufacturing Company: *See*—
 Sordoni, William B.; and Westawski, Frank S., 3,633,844.
 Sterling Extruder Corporation: *See*—
 Stansfield, Manfred D., 3,685,804.
 Sterling, Henley Frank; and Swann, Richard Charles George, to International Standard Electric Corporation. Method of forming silicon oxide coatings in an electric discharge. 3,655,438, 4-11-72, Cl. 117-201.
 Sterling, John Deo, Jr., to Du Pont de Nemours, E. I., and Company. Perfluoropolyether esters. 3,646,112, 2-29-72, Cl. 260-484.
 Sterling, John E., to General Electric Company. Household refrigerator including automatic ice maker and door mounted ice storage receptacle. 3,635,043, 1-18-72, Cl. 62-137.
 Sterling, Walter S., to Pneumatic Scale Corporation. Closure handling apparatus. 3,635,325, 1-18-72, Cl. 198-33.
 Sterling, Walter S., to Pneumatic Scale Corporation. Closure handling apparatus. 3,643,783, 2-22-72, Cl. 198-33.
 Sterling, Walter S., to Pneumatic Scale Corporation. Closure handling apparatus. 3,656,604, 4-18-72, Cl. 198-33.
 Sterling, Walter S., to Pneumatic Scale Corporation. Cap feeding apparatus. 3,696,924, 10-10-72, Cl. 209-73,000.
 Sterling, Walter S., to Pneumatic Scale Corporation. Closure handling and orienting apparatus. 3,706,368, 12-19-72, Cl. 198-33,00a.
 Sterlini, Jacques, to Compagnie-Electro-Mecanique. Process for the rational exchange of heat in counter-current heat exchanges where the exchanges are unbalanced. 3,667,230, 6-6-72, Cl. 60-65,000.
 Sterly, Glenn E., to Ampex Corporation. Pause control mechanism for a cassette changer. 3,653,669, 4-4-72, Cl. 274-4.
 Sterly, Glenn E., to Ampex Corporation. Automatic termination of operation of a cassette changer. 3,659,858, 5-2-72, Cl. 274-4.
 Sterly, Glenn E., to Ampex Corporation. Directional control switch means for a cassette changer. 3,661,396, 5-9-72, Cl. 274-4.
 Sterly, Glenn E., to Ampex Corporation. Repeat means for a cassette changer. 3,690,679, 9-12-72, Cl. 274-4,00f.
 Stermac, Boris, to Premium Forest Products Limited. Adjustable journaling means. 3,646,635, 3-7-72, Cl. 16-129.
 Stern, Audrey E.: *See*—
 Williams, Kenneth A.; and Stern, David R., 3,694,153.
 Stern, Charles: *See*—
 Reader, Malcolm; Tregay, John L.; and Stern, Charles, 3,647,955.
 Stern, David M., to Honeywell Inc. Analog to digital converter. 3,683,369, 8-8-72, Cl. 340-347,00d.
 Stern, David R.: *See*—
 Liu, Tung; and Stern, David R., 3,680,698.
 Williams, Kenneth A.; and Stern, David R., 3,694,153.
 Stern, Herman Abraham, to RCA Corporation. Fabrication of liquid crystal devices. 3,701,368, 10-31-72, Cl. 141-1,000.
 Stern, Howard R.; Marshall, James E.; and Sloane, Thomas E., Jr., to Mattel, Inc. Apparatus for automatically starting a rotatable member at predetermined positions sequentially. 3,658,346, 4-25-72, Cl. 274-9,00r.
 Stern, Jason L. Self-opening envelope. 3,655,120, 4-11-72, Cl. 229-86.
 Stern, Karen: *See*—
 Stern, Kenneth; Stern, Karen; and Spoon, Robert, 3,705,387.
 Stern, Kenneth: *See*—
 Stern, Kenneth; Stern, Karen; and Spoon, Robert, 3,705,387.
 Stern, Kenneth; Stern, Karen; and Spoon, Robert, 1/3 each to Stern, Kenneth, Spoon, Robert and Grossman, Thomas J., mesne. Remote control system for electro-mechanical vehicle. 3,705,387, 12-5-72, Cl. 340-171,00a.
 Stern, Lionel: *See*—
 Henshaw, David Ernest; and Stern, Lionel, 3,693,339.
 Stern, Lionel; and Hadaway, Bernard Milton, to Richardson, A. T., & Sons Proprietary Limited. Manufacture of ring gear and other ring blanks. 3,635,063, 1-18-72, Cl. 72-130.
 Stern, Max Herman: *See*—
 Lestina, Gregory James; and Stern, Max Herman, 3,698,909.
 Stern, Robert: *See*—
 Lassau, Christian; Stern, Robert; and Sajus, Lucien, 3,663,635.
 Stern, Robert L.: *See*—
 Du Rose, Arthur H.; and Stern, Robert L., 3,634,210.
 Stern, Theodore J., to A.I.T. Industries, Inc. Edge control device for grinding machine. 3,673,738, 7-4-72, Cl. 51-93,000.
 Stern, Tobias: *See*—
 Wolowodiuk, Walter; and Stern, Tobias, 3,656,543.
 Sternal, Lambert S., to Timesavers Sanders, Inc. Method of and apparatus for effecting superior sanding. 3,701,219, 10-31-72, Cl. 51-140,000.
 Sternal, Martin M., to Grace, W. R., & Co. Apparatus for making a closure on a container. 3,701,234, 10-31-72, Cl. 53-329,000.
 Sternbach, Henryk: *See*—
 Archer, Giles Allan; and Sternbach, Henryk, 3,671,517.
 Earley, James Valentine; Fryer, Rodney Ian; Ye-Fong Ning, Robert; and Sternbach, Henryk, 3,681,341.
 Sternbach, Leo H.: *See*—
 Field, George Francis; Sternbach, Leo H.; and Zally, William Joseph, 3,687,967.
 Sternbach, Leo Henryk: *See*—
 Archer, Giles Allan; and Sternbach, Leo Henryk, 3,646,011.
 Archer, Giles Allan; and Sternbach, Leo Henryk, 3,678,036.
 Berger, Leo; Grunberg, Emanuel; Stempel, Arthur; and Sternbach, Leo Henryk, 3,657,436.
 Brust, Bernard; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,637,675.
 Drieg, Michael Edward; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,651,046.
 Earley, James Valentine; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,644,335.
 Earley, James Valentine; Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,703,510.
 Field, George Francis; and Sternbach, Leo Henryk, 3,651,047.
 Field, George Francis; Sternbach, Leo Henryk; and Zally, William Joseph, 3,678,038.
 Field, George Francis; and Sternbach, Leo Henryk, 3,697,545.
 Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,691,157.
 Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,706,734.
 Fryer, Rodney Ian; and Sternbach, Leo Henryk, 3,707,473.
 Metlesics, Werner; and Sternbach, Leo Henryk, 3,644,336.
 Metlesics, Werner; and Sternbach, Leo Henryk, 3,644,419.
 Ning, Robert Ye-Fong; and Sternbach, Leo Henryk, 3,635,948.
 Ning, Robert Ye-Fong; and Sternbach, Leo Henryk, 3,644,334.
 Ning, Robert Ye-Fong; and Sternbach, Leo Henryk, 3,686,308.
 Stempel, Arthur; and Sternbach, Leo Henryk, 3,657,344.
 Ye-Fong Ning, Robert; and Sternbach, Leo Henryk, 3,682,892.
 Sternberg, Hubert H. A., to Heidelberger Druckmaschinen Aktiengesellschaft. Frictional gear backlash eliminating means in sheet fed rotary printer. 3,680,481, 8-1-72, Cl. 101-232,000.
 Sternberg, Hyman M.; Piacesi, Dante, Jr.; and Katz, Howard, to United States of America, Navy. Rod warhead. 3,675,577, 7-11-72, Cl. 102-67,000.
 Sternberg, James C.: *See*—

- Deuringer, Rudolf; Ray, Robert A.; and Sternberg, James C., 3,701,716.
 Sternberg, James C., to Beckman Instruments, Inc. Titration method and apparatus. 3,692,483, 9-19-72, Cl. 23-230,00r.
 Sternberg, Moshe, to Miles Laboratories, Inc. Purification of protease. 3,655,513, 4-11-72, Cl. 195-66.
 Sternberg, Shmuel; Bixler, Harris J.; and Michaels, Alan S., to Amicon Corporation. Encapsulating particles and process for making same. 3,639,306, 2-1-72, Cl. 260-2,5.
 Sternberger, Ludwig A.: *See*—
 Cuculis, John J.; Meyer, Howard G.; Sim, Van M.; and Sternberger, Ludwig A., 3,642,981.
 Meier, Eugene P.; Lenz, David E.; and Sternberger, Ludwig A., 3,697,645.
 Sterneo Industries, Inc.: *See*—
 Lovitz, David D., 3,635,344.
 Lovitz, David D., 3,678,899.
 Sterne, Jean Jacques: *See*—
 Aron-Samuel, Jan Marcel Didier; and Sterne, Jean Jacques, 3,703,514.
 Sterner, Maurice E., Jr.: *See*—
 Taylor, Henry A.; and Sterner, Maurice E., Jr., 3,676,956.
 Sterner, Russel L.: *See*—
 Keller, Joseph H., Jr.; and Sterner, Russel L., 3,702,181.
 Sterner, Russell L.: *See*—
 Keller, Joseph H., Jr.; and Sterner, Russell L., 3,677,417.
 Sterner, Russell L.; and Lowe, William L., to Grove Manufacturing Company. Safe load control system for telescopic crane booms. 3,641,551, 2-8-72, Cl. 340-267.
 Sterner, Russell L., to Grove Manufacturing Company. Pivot structure for cantilevered crane boom. 3,684,324, 8-15-72, Cl. 287-100,000.
 Sternhoff, Lennart B. T.: *See*—
 Ljungberg, Sten Herman; and Sternhoff, Lennart B. T., 3,656,716.
 Sternling, Charles V.: *See*—
 Verheul, Cornelis M.; and Sternling, Charles V., 3,706,534.
 Sterns, Lorraine E.; and Howard, Arthur G., 1/2 each to Churchman, M. S., Co., Inc. and Keyless Lock Company, Inc. Ladder scaffold vehicle. 3,664,458, 5-23-72, Cl. 182-102.
 Sterns, Robert B.; and Richards, Robert R., to Logic Systems, Inc. Positioning of multiple elements. 3,646,418, 2-29-72, Cl. 318-603.
 Stero N.V.: *See*—
 Stevens, Simon, 3,654,644.
 Sterrett, John D., Jr., to Westinghouse Electric Corporation. Rolling mill gauge control during acceleration. 3,704,609, 12-5-72, Cl. 72-8,000.
 Sterrett, Eugene L. Seat cushion or pillow. 3,638,255, 2-1-72, Cl. 5-337.
 Sterrett, Eugene L. Gas separating device. 3,675,394, 7-11-72, Cl. 55-518,000.
 Sterrett, Eugene L., to Marathon Oil Company. Liquid cryogen storage tank for shore, ship or barge. 3,682,346, 8-8-72, Cl. 220-9,00a.
 Sterrett, Robert W.; and Jacob, Francis J., to Grace, W. R., & Co. Insulation product and method. 3,677,874, 7-18-72, Cl. 161-116,000.
 Steru, Marius: *See*—
 Brailard, Pierre L.; Moreuil, Jean-Louis; and Steru, Marius, 3,640,002.
 Sterzer, Fred, to RCA Corporation. Transferred electron amplifier with oscillation stabilization circuit. 3,636,461, 1-18-72, Cl. 330-5.
 Sterzik, Harry Klaus. Method for the chemical treatment of living trees and injection cartridge for the performance of the aforesaid method. 3,691,683, 9-19-72, Cl. 47-57,500.
 Stesilver Control Royalties: *See*—
 Davis, Ward B., 3,701,633.
 Stessel, Martin C., to Motorola, Inc. Push button switch assembly. 3,632,938, 1-4-72, Cl. 200-167.
 Stetsenko, Vladimir Vasilievich: *See*—
 Tatiano, Nikolai Vasilievich; Tsybal, Alexandr Gavrilovich; Stetsenko, Vladimir Vasilievich; Isikov, Sergei Alexandrovich; Rodenko, Fedor Leontievich; Betcher, Alexandr Samuilovich; Shamrai, Petr Dmitrievich; Dulya, Mikhail Afanasievich; Dudka, Viktor Vasilievich; Klimchuk, Ivan Petrovich; and Dolgov, Anatoly Mikhailovich, 3,664,431.
 Stetsjuk, Nikolai Arsentievich: *See*—
 Marichev, Vladimir Petrovich; Slepian, Viktor Iosifovich; Stetsjuk, Nikolai Arsentievich; and Ginzburg, Samuil Borisovich, 3,684,245.
 Stetson, Earl W., to General Electric Company. Sparkgap chamber with arc stretching teeth embodying optimum heat sink means. 3,671,797, 6-20-72, Cl. 313-325,000.
 Stetson, Earl W., to General Electric Company. Self-supporting load bearing voltage grading resistors for a lightning arrester. 3,671,800, 6-20-72, Cl. 315-36,000.
 Stetson, Harold Wilbur; and Gyurk, Warren Joseph, to Western Electric Company Incorporated. Alumina substrates. 3,698,923, 10-17-72, Cl. 106-62,000.
 Stetter, Gunter, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung. Pyrotechnic emitter. 3,680,484, 8-1-72, Cl. 102-87,000.
 Stetter, Gunter; and Reinemann, Ullrich, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschränkter Haftung. Pyrotechnic radiator construction. 3,695,180, 10-3-72, Cl. 102-87,000.
 Stettler, Christian H., to Grotne Machine Works, Inc. Method and apparatus for forming cylinders from strip material. 3,662,940, 5-16-72, Cl. 228-15.
 Stettner, Dennis; and Hollison, Ronald B. Ski equipment lock assembly. 3,670,535, 6-20-72, Cl. 70-58,000.
 Stetzler, Grant F., to Western Electric Company, Incorporated. System and method for determining the maximum output voltage swing on operational amplifiers. 3,702,970, 11-14-72, Cl. 330-2,000.
 Steuber, Charles H.; Cremer, Robert L.; and Wood, Jerry D., to Buddy L. Corporation. Toy vehicle. 3,633,307, 1-11-72, Cl. 46-201.
 Steucke, Erwin W.: *See*—
 Schoettger, Richard A.; and Steucke, Erwin W., 3,644,625.
 Steude, Heinrich: *See*—
 Brandt, Hans-Walter; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; Schleppinghoff, Bernhard; and Schnuchel, Gunther, 3,655,806.
 Schliebs, Reinhard; Brandt, Hans-Walter; Engelhard, Bruno; Steude, Heinrich; Scherb, Helmut; and Schnuchel, Gunther, 3,686,349.
 Steudel, Fritz, to Raytheon Company. Phased array. 3,680,109, 7-25-72, Cl. 343-100,00a.
 Steudel, Goetz Wolfgang, to RCA Corporation. Voltage-controlled oscillator using complementary symmetry MOSFET devices. 3,702,446, 11-7-72, Cl. 331-111,000.
 Steufmehl, Willi, to Maschinen- und Bohrgerate-Fabrik Alfred Wirth & Co., KG. Machinery for driving tunnels, galleries or the like. 3,639,006, 2-1-72, Cl. 299-31.
 Steufmehl, Willi, to Maschinen- und Bohrgerate-Fabrik Wirth, Alfred, & Co. K.G. Stepper advancing apparatus for drilling inclined tunnels. 3,642,326, 2-15-72, Cl. 299-31.
 Steunenberg, Robert K.: *See*—
 Cairns, Elton J.; Chilenskas, Albert A.; Steunenberg, Robert K.; and Shimotake, Hiroshi, 3,666,560.
 Steury, Virgil H. Camper type vehicle and drive assembly for raising the top thereof. 3,674,305, 7-4-72, Cl. 296-27,000.
 Stevels, William A., to Aldrich Machine Works. Textile picker having means for varying feed of a web passing therethrough. 3,680,192, 8-1-72, Cl. 19-240,000.
 Steven Manufacturing Co.: *See*—
 Taylor, Beverly W., 3,689,072.
 Steveninck, Johannes Van, to Shell Oil Company. Method and apparatus for burying a pipeline having fixed fluidization means. 3,695,049, 10-3-72, Cl. 61-72,400.
 Stevens, Alan F.; and Bergson, Arnold A., to Quest Electronics Corporation. Sound hazard integrator. 3,697,973, 10-10-72, Cl. 340-261,000.
 Stevens, Arthur Dexter, to Marconi Company Limited, The. Fault location and reconfiguration in redundant data processors. 3,681,578, 8-1-72, Cl. 235-153,000.
 Stevens, Arthur L. Lapidary holder and attachment therefor. 3,688,452, 9-5-72, Cl. 51-229,000.
 Stevens, Ash, Inc.: *See*—
 Ash, Arthur B.; and Stevens, Calvin L., 3,694,498.
 Stevens, Bernard, to General American Transportation Corporation. Stamp dispensing machine. 3,655,109, 4-11-72, Cl. 226-46.
 Stevens, Brooks, Jr., to Riggs & Lombard Inc. Method and apparatus for processing knit goods and the like. 3,643,475, 2-22-72, Cl. 68-18.
 Stevens, Bruce W., to Menasha Corporation, mesne. Drainage foil resurfacing machine. 3,659,497, 5-2-72, Cl. 90-17,000.
 Stevens, Calvin L.: *See*—
 Ash, Arthur B.; and Stevens, Calvin L., 3,694,498.
 Stevens, Charles Edward, to Exton, John M.; as trustee of the Trust Exton Development Company. Apparatus for ornamenting glass articles. 3,676,962, 7-18-72, Cl. 51-227,00r.
 Stevens, Charles Edward, to Exton, John M.; trustee of the trust known for business purposes as the Exton Development Company. Method for manufacturing masks to be used for ornamenting glass articles in an abrasive blasting process. 3,702,496, 11-14-72, Cl. 29-472,900.
 Stevens, Charles H., to Sybron Corporation. Adjustable shim for pressure vessel doors. 3,694,145, 9-26-72, Cl. 21-91,000.
 Stevens, Christopher Richard: *See*—
 Bloch, Walter; and Stevens, Christopher Richard, 3,702,371.
 Stevens Corporation: *See*—
 Christoff, Chris A., 3,704,669.
 Stevens, Curtis E.; and Phillips, Chandler A., to Berteau Corporation. System for detecting the position of a movable element. 3,701,136, 10-24-72, Cl. 340-199,000.
 Stevens, Curtis Edgar, to Berteau Corporation. Anti-skid system. 3,671,082, 6-20-72, Cl. 303-21,00p.

- Stevens, David; and Blau, Donald Z. Carriage for waste disposal bags and the like. 3,666,283, 5-30-72, Cl. 280-36.
- Stevens, Derek Norman; and Underwood, Peter James, to General Motors Corporation. Windscreen wipers. 3,638,512, 2-1-72, Cl. 74-595.
- Stevens, Don L.: *See—*
Filter, Harold E.; and Stevens, Don L., 3,632,458.
- Stevens, Douglas N.; Bisque, Ramond E.; and Bloom, Duane N., to Earth Sciences, Inc. Process for the recovery of diamond particles from alumina or silicate wastes. 3,644,094, 2-22-72, Cl. 23-209.9.
- Stevens, Edward J., to Minnesota Mining and Manufacturing Company. Skewed billets for making louvered films. 3,707,416, 12-26-72, Cl. 156-196.000.
- Stevens, Elbert M. Anchor. 3,682,125, 8-8-72, Cl. 114-206.00r.
- Stevens, Emerson W., to United States of America, Air Force. S/TOL aircraft. 3,660,981, 5-9-72, Cl. 60-226.00r.
- Stevens, Eugene H.; and Sullivan, Paul A., to Hughes Aircraft Company. Apparatus for synchronizing an opaque video tape with a video display. 3,659,049, 4-25-72, Cl. 178-69.5tv.
- Stevens, Fred C. Non-skid braking system for vehicles. 3,659,904, 5-2-72, Cl. 303-21.0cg.
- Stevens, Gary L. Method of treating cathodo-luminescent phosphors. 3,637,410, 1-25-72, Cl. 117-8.
- Stevens, George D. Packaged composition for enhancing the growth of plants. 3,647,411, 3-7-72, Cl. 71-1.
- Stevens, Guy William W., to Eastman Kodak Company. Focus control for optical instruments. 3,648,587, 3-14-72, Cl. 95-44.
- Stevens, Harry G.; and Smith, Robert Earl. Work holder. 3,695,468, 10-3-72, Cl. 214-340.000.
- Stevens, Harry R.: *See—*
Palmason, Einar H.; and Stevens, Harry R., 3,646,879.
- Stevens, Henry C.: *See—*
Barter, James A.; Eddy, Clifford O.; and Stevens, Henry C., 3,642,755.
Doran, Thomas J.; Wagner, Melvin P.; and Stevens, Henry C., 3,664,403.
- Stevens, Henry C., to PPG Industries, Inc. Polymerization of fluorine-containing ethylenically unsaturated monomers in the presence of a beta-hydroxyalkyl tertiary-butyl peroxide. 3,640,985, 2-8-72, Cl. 260-92.1.
- Stevens, Henry C.; and Wartmann, Hans J., to PPG Industries, Inc. O,O'-diol bisperoxy-carbonates. 3,652,631, 3-28-72, Cl. 260-453.
- Stevens, Hugh D.: *See—*
Mitchell, Reid L.; Muller, Thomas E.; Stevens, Hugh D.; and Tabke, Robert S., 3,670,069.
- Stevens, J. P., & Co., Inc.: *See—*
Brisset, Charles David; and Trotter, Marvin Nathaniel, 3,678,672.
Carman, Alexander J., 3,699,783.
Guerin, Ernest P., 3,698,447.
Harper, Cyril N.; and Maglio, Ralph A., 3,649,600.
Hopkins, John G., 3,653,198.
Mazzone, Charles P., 3,667,090.
Orosian, Andrew; Sello, Stephen B.; and Tesoro, Giuliana C., 3,686,258.
- Oroszlan, Andrew; and Tesoro, Giuliana C., 3,703,509.
- Pike, Herbert J., 3,653,196.
- Pike, Herbert J., 3,700,391.
- Ross, Stanley E., 3,663,173.
- Ross, Stanley E., 3,695,967.
- Runton, Leslie A., 3,695,064.
- Sello, Stephen B., 3,632,297.
- Sello, Stephen B., 3,681,060.
- Sello, Stephen B.; and Egrie, Paul H., 3,681,124.
- Tesoro, Giuliana; and Lee, Wing Kai, 3,684,429.
- Tesoro, Giuliana C.; Lee, Wing-Kai; and Domovs, Kelvin B., 3,658,791.
- Tesoro, Giuliana C., 3,669,977.
- Tesoro, Giuliana C., 3,682,893.
- Tesoro, Giuliana C., 3,682,975.
- Tesoro, Giuliana C., 3,687,891.
- Tesoro, Giuliana; Sello, Stephen B.; Moore, Donald R.; and Wurster, Rudolf F., 3,650,670.
- Trotter, Marvin N., 3,669,366.
- Wolf, Harold W.; and Ross, Stanley E., 3,644,591.
- Stevens, Jackson B.; and Brown, Lewis. Paint roller cleaner. 3,688,785, 9-5-72, Cl. 134-138.000.
- Stevens, Jacques: *See—*
Delbouille, Andre; Gobillon, Yves; and Stevens, Jacques, 3,663,660.
- Stevens, John J., Jr., to Union Carbide Corporation. Treatment of alumina fillers with silane coupling agents for epoxy resins. 3,647,742, 3-7-72, Cl. 260-37.
- Stevens, John Joseph, Jr.: *See—*
Wynstra, John; and Stevens, John Joseph, Jr., 3,699,070.
- Stevens, John M.: *See—*
Stevens, John M.; and Maxwell, Richard R., 3,670,170.
- Stevens, John M.; and Maxwell, Richard R., to Stevens, John M. Non-visible electromagnetic radiation measuring device. 3,670,170, 6-13-72, Cl. 250-229.000.
- Stevens, John N., to Catug Corporation. Seagoing tug and barge construction. 3,698,349, 10-17-72, Cl. 114-235.00r.
- Stevens, Justus Bickford; Meyer, Walter William; and Howland, John Sinclair, to Sealol, Inc. Damping device for a mechanical fluid seal. 3,658,349, 4-25-72, Cl. 277-89.
- Stevens, Keith Drummond: *See—*
Morton, John; Stevens, Keith Drummond; and Thexton, Graham Spencer, 3,689,818.
- Stevens, Kenneth: *See—*
Hill, William G.; and Stevens, Kenneth, 3,643,059.
- Stevens, L. M., Corporation: *See—*
Stevens, Louis M., 3,702,256.
- Stevens, Laurence G.: *See—*
Klein, Lawrence C.; and Stevens, Laurence G., 3,632,308.
Klein, Lawrence C.; and Stevens, Laurence G., 3,640,684.
- Stevens, Louis M., to Stevens, L. M., Corporation. Marine antifouling additive. 3,702,256, 11-7-72, Cl. 106-15.0af.
- Stevens, Milton J., mesne: *See—*
Lumbard, Fredrick W., 3,665,635.
- Stevens, Robert: *See—*
James, John W.; and Stevens, Robert, 3,689,540.
- Stevens, Robert Walter: *See—*
Coyle, Jan Robert; and Stevens, Robert Walter, 3,676,609.
- Stevens, Roger H.; and Blair, Bruce A., to International Farm Systems, Inc. System for feeding and maintaining animals in a confined environment. 3,633,547, 1-11-72, Cl. 119-16.
- Stevens, Ronald John. Lamina plate filter. 3,633,751, 1-11-72, Cl. 210-222.
- Stevens, Simon, to Stero N.V. Stretcher. 3,654,644, 4-11-72, Cl. 5-81.
- Stevens, Stephen S., 50% to Sankary, Morris. Flame resistant materials and methods for producing same. 3,655,600, 4-11-72, Cl. 260-25.
- Stevens, Travis E.: *See—*
Cenci, Harry J.; and Stevens, Travis E., 3,689,468.
- Stevens, Walter R. Automatic control of headlights, taillights, and warning flasher lights. 3,699,514, 10-17-72, Cl. 340-60.000.
- Stevens, William C., Jr.: *See—*
Marshall, Philip; and Stevens, William C., Jr., 3,659,456.
- Stevens, William D., to Foster Wheeler Corporation. Furnace enclosure for natural circulation generator. 3,662,716, 5-16-72, Cl. 122-6.
- Stevens, William D., to Foster Wheeler Corporation. Minimization of nitrogen oxides in combustion products. 3,675,629, 7-11-72, Cl. 122-235.00r.
- Stevens, William P.; Hubbard, George M.; and Wagner, William D., to Bendix Corporation. The Connector assembly adapted for use with a coaxial cable. 3,634,815, 1-11-72, Cl. 339-177.
- Stevens, William P.; Hubbard, George M.; and Wagner, William D., to Bendix Corporation. The Locking connector assembly. 3,639,890, 2-1-72, Cl. 339-91.
- Stevens, William P.; Hubbard, George M.; and Wagner, William D., to Bendix Corporation. The Connector with isolated ground. 3,678,444, 7-18-72, Cl. 339-130.00c.
- Stevenson, Alan D.: *See—*
Burns, Erwin; and Stevenson, Alan D., 3,677,341.
- Stevenson, Boyd: *See—*
Moran, Jack; Stevenson, Boyd; and Reynolds, William A., 3,683,102.
- Stevenson, Charles F.: *See—*
Rinn, Irvin C.; and Stevenson, Charles F., 3,683,782.
- Stevenson, David Gordon, to Paterson Candy International Limited. Continuous ion exchange apparatus and method of operating the same. 3,682,312, 8-8-72, Cl. 210-189.000.
- Stevenson, Fred: *See—*
Wiggins, Glenn C.; Kreh, Marvin J.; Davis, Robert S.; and Stevenson, Fred, 3,707,590.
- Wineland, William H.; Goff, Frank V.; and Stevenson, Fred, 3,662,028.
- Stevenson, Gary E.: *See—*
Boebel, Carl P.; and Stevenson, Gary E., 3,653,942.
- Stevenson, Graham T., to Dow Chemical Company. The Substituted pyridines employed in animal husbandry for controlling coccidiosis. 3,703,581, 11-21-72, Cl. 424-263.000.
- Stevenson, Jack R., to Uniroyal, Inc. Fabric stiffness testing apparatus. 3,659,454, 5-2-72, Cl. 73-103.
- Stevenson, James F., to Emhart Corporation. Glass furnace with triple batch charging and method. 3,670,908, 6-20-72, Cl. 214-24.000.
- Stevenson, Joseph Eugene, to Stauffer-Wacker Silicone Corporation. Method for coating a substrate with a heat curable silicone rubber and resulting product. 3,667,993, 6-6-72, Cl. 117-72.000.
- Stevenson, Louis A., Jr., to A-T-O, Inc. Pulse generator and encoder. 3,702,472, 11-7-72, Cl. 340-359.000.
- Stevenson, Moses: *See—*
Davis, William; and Stevenson, Moses, 3,685,627.
- Stevenson, Paul D.: *See—*
Week, Nils Peder; and Stevenson, Paul D., 3,641,879.
- Stevenson, Philip J.: *See—*
Blackburn, William A.; and Stevenson, Philip J., 3,654,063.
- Stevenson, Robert Andrew: *See—*

- Barnaby, Bernard Sydney; Webb, Graham; and Stevenson, Robert Andrew, 3,686,445.
- Stevenson, Robert Andrew. Telephone instruments. 3,686,444, 8-22-72, Cl. 179-81.00b.
- Stevenson, William W., to Minnesota Mining and Manufacturing Company. Water removing device. 3,683,447, 8-15-72, Cl. 15-352.000.
- Stever, William Charles: *See—*
Strater, Kurt; Hall, William Bernard; Mihalick, Eugene Michael; and Stever, William Charles, 3,673,983.
- Steves, Clarence: *See—*
Brak, Stephen B.; Steves, Clarence; and Mayfield, Ross M., 3,654,794.
- Steves, Leon F. Insect catcher assembly. 3,659,374, 5-2-72, Cl. 43-134.000.
- Stevick, Lawrence E.: *See—*
Kohn, Gustave K.; and Stevick, Lawrence E., 3,655,780.
- Stevick, Lawrence E., to Chevron Research Company. N,N-di-(polyhalovinylthio) carboxamides. 3,646,097, 2-29-72, Cl. 260-453.
- Stevick, Lawrence E., to Chevron Research Company. Dialkyl dihydrothienyl phosphates. 3,671,547, 6-20-72, Cl. 260-329.00p.
- Stevko, Phillip J., to Addressograph-Multigraph Corporation. Electrostatic hold-down. 3,654,740, 1-11-72, Cl. 317-262.
- Steward, Edgar H.: *See—*
Deutsch, Herman; Steward, Edgar H.; and van Gieson, Walter D., Jr., 3,639,694.
- Steward, Henry A.: *See—*
Ball, Harry; and Steward, Henry A., 3,651,946.
- Steward, Jerry L.: *See—*
Hulle, Robert M.; Steward, Jerry L.; and Borman, Merle D., 3,693,024.
- Steward, John H., to Multifastener Corporation. Nut and panel assembly and method of making same. 3,648,747, 3-14-72, Cl. 151-41.73.
- Steward, Lexie L. Saw swage tool. 3,661,038, 5-9-72, Cl. 76-72.
- Steward, William A., to Steward, Wm. A. Magnetic in and out board. 3,670,435, 6-20-72, Cl. 40-106.450.
- Steward, Wm. A.: *See—*
Steward, William A., 3,670,435.
- Stewart & Stevenson Services, Inc.: *See—*
Childress, Ezra E., 3,650,310.
Mitchell, Robert W., 3,661,170.
- Stewart, Albert A. Golf practice platform. 3,639,923, 2-8-72, Cl. 273-187.
- Stewart, Albert A. Golf practice device. 3,698,721, 10-17-72, Cl. 273-186.00c.
- Stewart assor. to Eastman Kodak Company: *See—*
Stewart, Paul H.; and Fay, David W., administrator, 3,653,896.
- Stewart, Aubrey P., Jr.; Dreir, Clarence R.; and Falk, John D., to Allied Chemical Corporation. Preparation of high viscosity sterilized protein solutions. 3,666,497, 5-30-72, Cl. 99-212.
- Stewart, Aubrey P., Jr.; and Falk, John D., to Allied Chemical Corporation. Flowable stabilizer suspensions. 3,669,675, 6-13-72, Cl. 99-1.000.
- Stewart, C. Jim, & Stevenson, Inc.: *See—*
Koomey, Paul C., 3,677,520.
- Stewart, Carleton C.: *See—*
Gordon, Maxwell; and Stewart, Carleton C., 3,639,561.
Gordon, Maxwell; and Stewart, Carleton C., 3,639,562.
- Stewart, Carrington H., to United States of America, National Aeronautics and Space Administration. Family of frequency to amplitude converters. 3,663,885, 5-16-72, Cl. 328-140.
- Stewart, Charles N.: *See—*
Cartwright, Robert S.; and Stewart, Charles N., 3,648,325.
- Stewart, Charlie G. Cutting shears. 3,638,307, 2-1-72, Cl. 30-193.
- Stewart, Clarence K. Preparation of asphalt paving material. 3,674,242, 7-4-72, Cl. 259-158.000.
- Stewart, Dair J., to Mautz Paint & Varnish Company. Fluorescent skin-marking composition. 3,640,889, 2-8-72, Cl. 252-301.2.
- Stewart, Dan F., to Phillips Petroleum Company. Safety container. 3,650,431, 3-21-72, Cl. 220-88.
- Stewart, Dorothy Ann; and Maloney, Bernard Allen, to PPG Industries, Inc. Production of sodium carbonate. 3,652,202, 3-28-72, Cl. 23-63.
- Stewart Engineering & Equipment Company, Inc.: *See—*
Kerr, Douglas M., 3,653,493.
- Stewart, Faye H., to Bohemia Lumber Company, Inc. Level wind for spooling drum. 3,652,029, 3-28-72, Cl. 242-157.1.
- Stewart, Faye H., to Bohemia Lumber Company, Inc. Aerial logging system. 3,706,385, 12-19-72, Cl. 212-71.000.
- Stewart Filmscreen Corporation: *See—*
Stewart, Marshall E., 3,637,285.
Stewart, Marshall E., 3,692,399.
- Stewart, George Alexander, to Burroughs Wellcome & Co. (U.S.A.) Inc. Beef insulin preparations. 3,657,425, 4-18-72, Cl. 424-178.
- Stewart, George R. Rotary engine construction. 3,644,069, 2-22-72, Cl. 418-33.
- Stewart, George W., 1/2 to Ellis, A. B. Article for reinforcing cloth. 3,656,987, 4-18-72, Cl. 117-3.4.
- Stewart, George W., Jr., to Mattel, Inc. Efficient reflector for a projector. 3,689,760, 9-5-72, Cl. 240-413.000.
- Stewart, Gloria. Finger ring display glove. 3,703,007, 11-21-72, Cl. 2-63.000.
- Stewart, Irving J.: *See—*
Grove, George L.; Stewart, Irving J.; and Helson, Lloyd W., 3,638,364.
- Stewart, James M., to Stewart Research, Inc. Force transmission and apparatus. 3,702,067, 11-7-72, Cl. 64-27.000.
- Stewart, James M., to Stewart Research, Inc. Instrument control system. 3,702,940, 11-14-72, Cl. 307-92.000.
- Stewart, James R.: *See—*
Waksman, David; and Stewart, James R., 3,668,039.
- Stewart, James R., Jr.: *See—*
Drechsel, Erhart K.; Sardisco, John B.; and Stewart, James R., Jr., 3,697,246.
- Stewart, John D.: *See—*
Tregembo, Rhoderic; Dolezal, Wayne R.; Boughton, Lowell D.; and Stewart, John D., 3,690,106.
- Stewart, John K., Jr.: *See—*
Clinehens, Richard M.; Stewart, John K., Jr.; and Dittmer, Robert W., 3,674,579.
- Stewart, John Kenneth, to Tamper Inc. Reversible tamping bar. 3,677,187, 7-18-72, Cl. 104-10.000.
- Stewart, John L., to Santa Rita Technology, Inc. Synthetic animal sound generator and method. 3,683,113, 8-8-72, Cl. 179-1.00r.
- Stewart, John L.; Mazzoni, Renato J.; and Schutrum, Lester F., to PPG Industries, Inc. Method for purging and filling multiple glazed units. 3,683,974, 8-15-72, Cl. 141-4.000.
- Stewart, John S., to Hawley Products Company. Padded panel for automobile door. 3,676,278, 7-11-72, Cl. 161-43.000.
- Stewart, Larry C. Equation apparatus. 3,696,531, 10-10-72, Cl. 35-31.00a.
- Stewart, Luther H., Jr. Lazy susan hot plate. 3,636,299, 1-18-72, Cl. 219-201.
- Stewart, Marshall E., to Stewart Filmscreen Corporation. Reflex light reflector. 3,637,285, 1-25-72, Cl. 350-105.
- Stewart, Marshall E., to Stewart Filmscreen Corporation. Microfilm viewer. 3,692,399, 9-19-72, Cl. 353-27.000.
- Stewart, Mary J.: *See—*
Price, John A.; and Stewart, Mary J., 3,635,900.
Price, John A.; and Stewart, Mary J., 3,644,291.
Price, John A.; and Stewart, Mary J., 3,661,842.
Price, John A.; and Stewart, Mary J., 3,673,157.
Price, John A.; and Stewart, Mary J., 3,692,741.
Price, John A.; and Stewart, Mary J., 3,700,644.
Rice, John A.; and Stewart, Mary J., 3,700,721.
- Stewart, Mary J.; and Price, John A., to FMC Corporation. Alkaline earth metal germanide polycondensation catalyst for the preparation of filament-forming polyester resin. 3,634,357, 1-11-72, Cl. 260-75.
- Stewart, Mary J.; and Price, John A., to FMC Corporation. Dibromoneopentyl glycol modified polyesters. 3,640,964, 2-8-72, Cl. 260-75.
- Stewart, Mary J.; and Carlson, Otto K., to FMC Corporation. Melt stabilization of polyesters. 3,642,689, 2-15-72, Cl. 260-45.7.
- Stewart, Mary J.; and Price, John A., to FMC Corporation. Organo mercapto-antimony compound as polycondensation catalysts. 3,644,292, 2-22-72, Cl. 260-75.
- Stewart, Mary J.; and Price, John A., to FMC Corporation. Saturated linear polyesters containing a salt of camphorsulfonic acid. 3,644,295, 2-22-72, Cl. 260-75.
- Stewart, Mary J., to FMC Corporation. Polyesters stabilized with organo substituted silanes. 3,652,493, 3-28-72, Cl. 260-45.7.
- Stewart, Neil David: *See—*
Fox, Maurice Rayner; Stewart, Neil David; and Lockett, Alfred Peter, 3,644,137.
- Stewart, Neil Rutherford; and Preslar, Donald Ray, to RCA Corporation. Pulse type circuit element testing method. 3,643,156, 2-15-72, Cl. 324-57.
- Stewart, Norman C., to Cities Service Research and Development Company. Hydrotreating process with coarse and catalysts. 3,635,943, 1-18-72, Cl. 208-157.
- Stewart, Paul H.; and Fay, David W., administrator, said Stewart assor. to Eastman Kodak Company. Diffusion transfer film unit. 3,653,896, 4-4-72, Cl. 96-3.
- Stewart, Paul Harold, to Eastman Kodak Company. Diffusion transfer system comprising dye developers, a pyrazolone and an onium compound. 3,649,265, 3-14-72, Cl. 96-3.
- Stewart, Paul M.: *See—*
MacDuff, Richard; and Stewart, Paul M., 3,677,530.
- Stewart, Ray S., to Rogers, Willard C. Portable camping unit. 3,661,418, 5-9-72, Cl. 296-23.
- Stewart, Ray T.: *See—*
Ference, Richard N.; Grega, Albert; Miller, James A.; Stewart, Ray T.; and Stricker, David M., 3,700,101.
- Stewart Research, Inc.: *See—*
Maleck, Le Roy R., 3,676,895.
Stewart, James M., 3,702,067.
Stewart, James M., 3,702,940.

- Stewart, Richard C.; and Creamer, Edward L., to Shell Oil Company. Welding electrode. 3,674,469, 7-4-72, Cl. 75-124,000.
- Stewart, Richard Gordon, to Parks-Cramer (Great Britain) Ltd. Apparatus for reducing accumulation of waste and disposing of waste in carding machines. 3,707,020, 12-26-72, Cl. 19-107,000.
- Stewart, Robert C.: *See—*
Emanuelson, Roger C.; Stewart, Robert C.; and Vine, Raymond W., 3,694,310.
- Stewart, Russell L.: *See—*
Pawloski, Chester E.; and Stewart, Russell L., 3,663,633.
Pawloski, Chester E.; and Stewart, Russell L., 3,700,735.
- Stewart, Samuel L.: *See—*
Bailey, Herbert S., Jr.; and Stewart, Samuel L., 3,660,230.
- Stewart, Stanly J. Holder for temporarily restraining and suspending a live animal. 3,693,595, 9-26-72, Cl. 119-98,000.
- Stewart, Sterling E.: *See—*
Lloyd, Harold B.; and Stewart, Sterling E., 3,696,996.
- Stewart, Ted, to General Motors Corporation. Retractable closure. 3,655,238, 4-11-72, Cl. 296-107.
- Stewart, Terrence J.: *See—*
Marshall, James C.; and Stewart, Terrence J., 3,632,454.
- Stewart, W. H., Company: *See—*
Stewart, William H.; and Feistel, Robert B., 3,648,303.
- Stewart, Walter N.; and Tatu, William J., to United States of America, Army. Artillery gun shock simulator. 3,693,432, 9-26-72, Cl. 73-167,000.
- Stewart, William F., to Perkins Engines Limited. Crankshaft balance weights and method of assembly. 3,673,651, 7-4-72, Cl. 29-6,000.
- Stewart, William H. Self-mounting siding. 3,631,642, 1-4-72, Cl. 52-105.
- Stewart, William H.; and Feistel, Robert B., to Stewart, W. H., Company. Portable tank. 3,648,303, 3-14-72, Cl. 4-172,19.
- Stewart, William K., to Seco-Dyn, Inc. Fast acting valve. 3,701,599, 10-31-72, Cl. 137-625,480.
- Stewart, William R.: *See—*
Fink, William C.; and Stewart, William R., 3,702,474.
- Stewart, William R., Jr.: *See—*
Rahenkamp, Robert A.; and Stewart, William R., Jr., 3,671,683.
- Stewart, William S.: *See—*
Smith, Dexter E.; and Stewart, William S., 3,636,326.
- Stewart, William S.; and Vanderveen, John W., to Phillips Petroleum Company. Electrochemical fluorination. 3,645,863, 2-29-72, Cl. 204-59.
- Stewart, Wilton A.; and Yu, Ying-Nien, to Intergraphic Inc. Light table with multiple axis tilting, and tension control of traveling illuminated media. 3,680,805, 8-1-72, Cl. 242-67,400.
- Stewart-Warner Corporation: *See—*
Andrews, Russell W.; Kolesar, Paul M.; Payne, Robert M.; and Posner, Howard G., 3,651,511.
- Bardwell, Francis G.; Dobrauz, John W.; and Sobchak, Frank L., 3,704,373.
- Bell, Harvey W., III, 3,678,893.
- Bjorn, Thomas E., 3,680,390.
- Bjorn, Thomas E.; and Morrisett, Ralph W., 3,688,590.
- Cartwright, Robert S.; and Stewart, Charles N., 3,648,325.
- Dopp, David S., 3,661,016.
- Fontana, Frank J., 3,687,241.
- Ireland, Robert G.; Manis, Fred L.; and Teegarden, Ross W., 3,703,925.
- Mozzi, Henry J., Jr., 3,649,340.
- Payne, Robert A., 3,638,215.
- Payne, Robert A.; and Van der Molen, John F., 3,665,280.
- Powell, Patrick L., 3,693,459.
- Rasch, Leroy L., 3,661,133.
- Rieth, Lawrence E., 3,659,093.
- Rieth, Lawrence E., 3,671,923.
- Schuhcke, Donald K., 3,694,750.
- So, Richard T., 3,649,751.
- Stomper, Joseph M., 3,699,846.
- Weaver, Frank C., 3,673,369.
- Williams, Philip J., 3,672,721.
- Stewarts and Lloyds Limited: *See—*
Ambler, Allan R., 3,684,149.
- Stewart, John F.; and Smith, Dean A., to Westinghouse Air Brake Company. Ejector and floor actuating means for scraper. 3,675,347, 7-11-72, Cl. 37-129,000.
- Stewart, Robert M., to General Motors Corporation. Boiler control system. 3,670,704, 6-20-72, Cl. 122-448,005.
- Steyr-Daimler-Puch Aktiengesellschaft: *See—*
Wagner, Karl; and Wesp, Horst, 3,638,344.
- Stibbard, Frank C. Fish lure. 3,685,192, 8-22-72, Cl. 43-42,040.
- Stibbe Machinery Limited: *See—*
Burdett, Henry S.; and Harris, Ronald, 3,641,786.
- Burdett, Henry Sidney; and Harris, Ronald, 3,681,941.
- Halkyard, Harold Lees; Bliss-Hill, Herbert Brian; and Tewsley, William, 3,693,168.
- Robottom, Philip Amos, 3,641,787.
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Barrer, Richard M.; Cole, John F.; and Sticher, Hans, 3,663,164.
- Stichling-Werkzeugfabrik Honneknevel & Co.: *See—*
Mannes, Gunter, 3,642,038.
- Stichnoth, Wolfgang: *See—*
Haak, Alfred Romuald; and Stichnoth, Wolfgang, 3,684,726.
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- Sticker, Robert Earl, to FMC Corporation. Miticidal compositions containing phenylazopropenoate esters and methods of use. 3,651,226, 3-21-72, Cl. 424-226.
- Stickler, Charles W., Jr., to Gray Tech Industries, Inc. Method and apparatus for preventing erosion. 3,653,216, 4-4-72, Cl. 61-4.
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La Marre, David A.; Schauweker, George H.; and Stickney, Herbert F., 3,691,564.
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Jones, Doyal H.; and Stiebel, Hanna, 3,693,748.
- Stiefel, Ludwig, to United States of America, Army. Nitrocellulose grain having crosslinked polymeric detergent coating and process of making. 3,682,726, 8-8-72, Cl. 149-10,000.
- Stiefel, Ludwig; Silverstein, Martin S.; and Kowalick, James F., to United States of America, Army. Distributed propulsion for guns. 3,706,278, 12-19-72, Cl. 102-38,000.
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- Stiefken, Charles E., to American Smelting and Refining Company. Method for preparing an asbestos fiber product of improved filtration characteristics. 3,644,138, 2-22-72, Cl. 117-100.
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- Stieg, Bernard O., to Kimberly-Clark Corporation. Rotating turning bar with remote position control. 3,681,904, 8-8-72, Cl. 57-3,000.
- Stieger, Frank M., to Polaroid Corporation. Light envelope. 3,682,068, 8-8-72, Cl. 95-39,000.
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Hake, Walter Thomas; and Stieglitz, Henry Gilbert, 3,676,271.
- Stielper, Henry J., to Black and Decker Manufacturing Company. The Double insulated drill bit sharpener. 3,694,967, 10-3-72, Cl. 51-73,00r.
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Von Brachel, Hanswilli; Cornelius, Dieter; and Stier, Eberhard, 3,637,653.
- Stier, Henry Willy: *See—*
Schnellman, Oscar; and Stier, Henry Willy, 3,696,562.
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- Stier, Ronald L., to Belden Corporation. Shielded cable. 3,639,674, 2-1-72, Cl. 174-36.
- Stieren, Arthur J. Apparatus for transferring piled silage. 3,687,322, 8-29-72, Cl. 214-520,000.
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Aelterman, Marcel Frans; and Stievenart, Emile Frans, 3,641,911.
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Evans, Robert G.; and Stifel, George R. P., 3,664,976.
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Klerk, Jacob; and Stijntjes, Theodorus Gerhardus Wilhelmus, 3,645,898.
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- Rogers, Gerald L., 3,690,615.
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Brake, Loren D.; and Stiles, Alvin B., 3,644,522.
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Linn, William Joseph; and Stiles, Alvin Barber, 3,655,724.
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Howard, Webster E., Jr.; Ludeke, Rudolf; and Stiles, Phillip J., 3,648,124.
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Breitbach, Fritz; and Choulat, Gustav, 3,661,507.
- Knapstein, Johannes; and Stratmann, Josef, 3,652,403.
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- Stilling, Jens Ole, to Aktiebolaget Asea-Atom. Level control means. 3,640,117, 2-8-72, Cl. 73-1.
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Alexander, James M., 3,696,625.
- Stiltner, Marshall A. Pressure switch diaphragm assembly with clamping diaphragm sealing means. 3,683,137, 8-8-72, Cl. 200-83,00b.
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Wacht, Raymond J.; Stallbaumer, Richard J.; and Stilwell, Jack E., 3,631,991.
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- Stimson, Allen Gwyn, to Eastman Kodak Company. Exposure control. 3,689,805, 9-5-72, Cl. 317-124,000.
- Stimson, Paul B., to United States of America, Navy. Directional inclinometer. 3,706,225, 12-19-72, Cl. 73-189,000.
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Bates, Howard J., Jr.; and Vujasinovic, Ado, 3,653,635.
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- Stine, Laurence O., to Universal Oil Products Company. Petroleum crude oil conversion process. 3,696,024, 10-3-72, Cl. 208-87,000.
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Marckx, Edward I.; and Stines, Harvey F., 3,638,521.
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Marckx, Edward I.; and Stines, Harvey F., 3,638,521.
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Drouhard, Alfred J., Jr.; and Stinson, Joseph B., 3,663,970.
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Dame, Charles, Jr.; Stinson, William S., Jr.; and Capossela, Anthony C., 3,647,474.
- Stinton, Frederick M.; and Slater, William M., to Conenco International Limited. Post-tensioning system. 3,676,031, 7-11-72, Cl. 425-111,000.
- Stinton, Frederick M. Splicing system and jack for stressing concrete. 3,701,509, 10-31-72, Cl. 254-29,00a.
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- Stipek, Harold A. Loop-supporting device. 3,677,597, 7-18-72, Cl. 294-19.00r.
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Filipek, Stanley J.; and Csapo, Frank, 3,631,648.
Filipek, Stanley J.; and Csapo, Frank, 3,632,088.
- Stirling, John Andrew: See—
Inman, Eric Richard; Macpherson, Ian Alexander; and Stirling, John Andrew, 3,700,709.
MacPherson, Ian Alexander; Inman, Eric Richard; Stirling, John Andrew; and Irvine, Alexander McHugh, 3,677,782.
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Streb, Alan J.; Stivers, George S.; and Kelly, Howard R., 3,668,015.
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- Stjernstrom, Nil Erik: See—
Carlsson, Lars Anders Fritz; Helgstrand, Ake John Erik; Sjöberg, Berndt Olof Harald; and Stjernstrom, Nil Erik, 3,637,714.
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Matsumoto, Seiji; Tamai, Yasuo; and Sto, Masamichi, 3,671,290.
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- Stobb, Anton R., to Stobb, Inc. Method and means of sheet imbricating and stacking. 3,653,656, 4-4-72, Cl. 271-68.
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Stobb, Anton R., 3,635,463.
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- Stobbe, Walter Marshall, to RCA Corporation. Identifier circuits for color bar type test generators. 3,634,612, 1-11-72, Cl. 178-5.4.
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Larson, Robert S.; and Stochke, Joseph, 3,661,410.
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Hastings, Reeve R.; and Stock, Arthur J., 3,658,084.
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- Stockburger, Horst: See—
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Arni, Urs; Faucci, Adriano; and Stocker, August, 3,655,721.
Aufderreggen, Klaus; Arni, Urs; Faucci, Adriano; and Stocker, August, 3,683,003.
- Stocker, August; Marti, Othmar; Pfammatter, Theodul; and Schreiner, Gehart, to Lonza Ltd. Process for the production of pyridine carboxylic acids. 3,657,259, 4-18-72, Cl. 260-295.
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- Stocker, Henry C., to Protrack Industries Ltd. Power saw guide. 3,645,307, 2-29-72, Cl. 143-69.
- Stocker, James F., to Kennecott Copper Corporation. Double wire discharge electrode assembly. 3,686,829, 8-29-72, Cl. 55-147.000.
- Stocker, Lester H.: See—
Sather, Eugene; Stocker, Lester H.; and Hams, Kenneth A., 3,652,078.
Sather, Eugene; Stocker, Lester H.; and Hams, Kenneth A., 3,652,828.
- Stocker, Winfried: See—
Rother, Wolfgang; Mordig, Eberhard; Wenzel, Erwin; Cronert, Dieter; Sand, Karl; Kasbohm, Joachim; Henicke, Heinz; Landmann, Helmut; and Stocker, Winfried, 3,701,881.
- Stockford, William F. Air treatment apparatus. 3,691,733, 9-19-72, Cl. 55-257.000.
- Stockham, James R.: See—
Hayes, Robert R.; Fuller, John L.; and Stockham, James R., 3,669,449.
- Stockham, John D.; Townsend, Lawrence B.; Ohlhaber, Ronald L.; and Scopelite, Thomas M., to United States of America, Air Force. Raindrop counter. 3,641,320, 2-8-72, Cl. 235-92.
- Stocking, John L.: See—
Borel, Robert J.; Corey, Leonard S.; Rucharski, Thaddeus W.; Stocking, John L.; and Thomas, Frederick H., 3,706,406.
- Stockinger, Walter: See—
Kipp, Adolf; Stockinger, Walter; and Konig, Peter J., 3,662,814.
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- Stockmann, Hans H.; and Meier, Eric A., to National Starch and Chemical Corporation. Novel cycloalkylated phenol and cycloalkylated phenol derivatives. 3,683,033, 8-8-72, Cl. 260-619.00d.
- Stockmann, Helmut: See—
Decker, Hanns; Hurtmanns, Heinz; and Stockmann, Helmut, 3,692,249.
- Stockton, Thomas Rowe, to Ford Motor Company. Spur drive for regenerator-type heat exchanger. 3,693,703, 9-26-72, Cl. 165-8.000.
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- Stoddard, Ivan; and Broughton, Terence D., to USM Corporation. Foot form and shoemaking method. 3,705,433, 12-12-72, Cl. 12-133.00r.
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Woodruff, George M.; Stoeckli, Oscar W.; and Shando, Joseph G., 3,672,264.
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- Stoecklin, Carl E. Whistle for moving through air. 3,638,355, 2-1-72, Cl. 46-179.
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Wilhelm, Gary, 3,698,285.
Wilhelm, Gary, 3,706,152.
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Stoelting, Carl R., 3,698,203.
Winnie, Dayle D., 3,633,276.
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- Stoen, Clifford L. Reversible indexing mechanism. 3,633,442, 1-11-72, Cl. 74-822.
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- Stofer, Dwight D. Safety release for tensioner of a belt or chain drive. 3,641,830, 2-15-72, Cl. 74-242.6.
- Stoffel Engineering Corporation, mesne: See—
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- Stoffel, Paul J.; and Beaver, David J., to Monsanto Company. Phytotoxicant. 3,697,252, 10-10-72, Cl. 71-95.000.
- Stoffel, Robert W.: See—
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- Stoffel, Robert W., to Robbins, Jim, Seat Belt Company. Seat belt buckle assembly. 3,631,571, 1-4-72, Cl. 24-230.
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- Stoffel, Robert W., to Allied Chemical Corporation. Fluid time delay automatic retractor. 3,648,946, 3-14-72, Cl. 242-107.4.
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- Stoffer, C. Daniel W., to Collins Radio Company. Audio compression circuit. 3,668,542, 6-6-72, Cl. 330-23.000.
- Stoffregen, Louis E.: See—
Pepmeier, Carl R.; Sincavage, Joseph T.; and Stoffregen, Louis E., 3,673,046.
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Moisescu, Gheorghe; Stoica, Valer; Wolf, Carol; and Spataru, Nicolae, 3,640,206.
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Chambers, Robert R.; and Stokan, Rudolph S., 3,650,303.
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- Stoker, Robert J.; and Hanley, James E., II. Cooling tower. 3,648,990, 3-14-72, Cl. 261-109.
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Grosse, Aristid V.; Stokes, Charles S.; and Smith, Edward W., 3,666,408.
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Greenwood, John Malcolm; and Stokes, David Howard, 3,669,891.
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Morphew, James R.; Ingram, Roland D.; and Stokes, John R., 3,643,217.
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Harrison, Stuart A.; and Stokes, Kenneth B., 3,645,932.
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Marshall, George E.; Perno, Bartholomew J.; and Stokes, Robert G., 3,685,905.
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Papin, Joseph E.; and Stokes, Stanley L., 3,669,506.
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Stokes, William S., 3,642,559.
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Barragan, Jacques, 3,668,813.
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Peisner, Israel D.; Stol, George H.; and Gotcher, Eugene D., 3,673,969.
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Kliment, Karel; Vacik, Jiri; Ott, Zdenek; Majkus, Vladimir; Stol, Miroslav; Stoy, Vladimir; and Wichterle, Otto, 3,689,634.
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Le Brasse, Gordon J.; and Stolarski, Boniface, 3,676,103.
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Kraschewski, Melvin W.; and Stoldt, Erwin F., 3,680,928.
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Ippen, Erich Peter; Patel, Chandra Kumar Naranbhai; and Stolen, Rogers Hall, 3,705,992.
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Long, Alvah C., Jr.; and Stolic, Edward J., 3,648,497.
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Peters, Jack; Williams, James E.; Murray, Ross; Stoliker, Lawrence F.; and Carlin, Patrick T., 3,658,337.

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Sigg, Hans-Peter; and Stoll, Christian, 3,651,007.
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Hadam, Wilhelm, 3,693,377.
Hadam, Wilhelm, 3,699,782.
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Worner, Walter, 3,688,526.
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- Stoll, Malcolm H. Gift wrapper. 3,658,240, 4-25-72, Cl. 229-87.
- Stoll, Max: *See*—
Eschenmoser, Albert; Felix, Dorothea; and Stoll, Max, 3,649,694.
Winter, Max; Gautschi, Fritz; Flament, Ivon; Stoll, Max; and Irving, Goldman M., 3,702,253.
- Stoll, Pierre E. C.: *See*—
Basard, Robert; Stoll, Pierre E. C.; and Sedes, Pierre H., 3,665,616.
- Stolle Corporation, The: *See*—
Beck, Edward G., Jr., 3,698,475.
Hasselbeck, Richard J.; and Kaminski, Elton G., 3,702,559.
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Ehrlich, Melvin P.; Stoller, Milton; and Grand, Stanley, 3,699,336.
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- Stollman, Richard A.; and Cedrone, Vincent N., to Fantastic Fudge, Inc. Food mixing machine. 3,643,928, 2-22-72, Cl. 259-6.
- Stolpa, Gerhard, to Henkel & Cie G.m.b.H. Preparation of factice-like products. 3,676,468, 7-11-72, Cl. 260-403.000.
- Stolpen, Beulah Harris. Language teaching apparatus and method. 3,670,427, 6-20-72, Cl. 35-35.00j.
- Stolshek, John D., to Republic Corporation. Apparatus for removing insulation from electrical conductors. 3,667,328, 6-6-72, Cl. 81-9.500.
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Cox, John B.; and Stoltz, Jacques R., 3,693,435.
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McCarty, Horace G.; Anderson, Keith B.; and Stoltzfus, David D., 3,661,287.
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Hubner, Klaus; Prokert, Konrad; and Stolz, Werner, 3,691,380.
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Ries, Christian; and Stolzenfels, Gunter, 3,682,713.
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Aikinson, James D.; Lepley, James W.; Nussbaum, Claire E.; and Stoltzfus, John E., 3,675,796.
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Grant, John M.; and Stolz, Albert D., 3,669,550.
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- Stomper, Joseph M., to Stewart-Warner Corporation. Air motor. 3,699,846, 10-24-72, Cl. 91-346.000.
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Dutkiewicz, Bronislaw K., 3,677,234.
Kuo, Chi Sheng, 3,637,174.
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- Stone, Alice B. Multiple nesting hair curler. 3,692,034, 9-19-72, Cl. 132-40.000.
- Stone, Beverly I. Visual training machine. 3,648,386, 3-14-72, Cl. 35-8.
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Johnson, Richard H., 3,665,675.
Partain, James H.; and Johnson, Richard H., 3,664,573.
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- Stone Conveyor Co., Inc.: *See*—
Didas, Ronald E., 3,647,051.
- Stone, Darold D.: *See*—
Blakeway, Carman H.; and Stone, Darold D., 3,638,804.
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Patel, Pravin K.; and Stone, Eliot, 3,674,554.
- Stone, Ellery W., to Schering Corporation, mesne. Body fluid collector and separator having improved flow rate. 3,682,596, 8-8-72, Cl. 23-253.00r.
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Smithgall, Harry E.; and Stone, Elmer O., 3,694,050.
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- Stone, Glenn Duane, to Du Pont de Nemours, E. I., and Comany. Imagewise hardening direct writing photodeveloped silver halide emulsions. 3,671,245, 6-20-72, Cl. 96-64.000.
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Gambale, James Richard; and Stone, Henry Asaph, III, 3,685,218.
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Acton, Edward M.; Leafer, Morris A.; and Stone, Herbert, 3,699,132.
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Mollins, Desmond Walter; Williamson, David Theodore Nelson; McCombie, Alan Keith; and Stone, Horace Alexander, 3,633,735.
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Findlay, Hugh T.; and Stone, Jerry F., 3,681,186.
Findlay, Hugh T.; Fuller, Sterritt R., Jr.; and Stone, Jerry F., 3,682,764.
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Lewis, Ivor James; and Stone, John T., 3,687,017.
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Tideswell, Richard B.; and Stone, Jonathan A., 3,686,106.
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- Stone, Morris Denor, to United Engineering and Foundry Company. Automatic gauge control of strip in rolling mill employing backup roll bending. 3,651,675, 3-28-72, Cl. 72-8.
- Stone, Obed W. Machine for killing insects. 3,685,431, 8-22-72, Cl. 99-253.000.

- Stone, Orison W. End structure for shadow box display carton. 3,687,279, 829-72, Cl. 206-45.140.
- Stone, Ralph K., to United States Envelope Company. Filled and sealed easily opened bag and method of making same. 3,674,195, 7-4-72, Cl. 229-66.000.
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- Stone, Thomas W., to Singer Company, The, mesne. Method of fastening coil leads. 3,664,017, 5-23-72, Cl. 29-596.000.
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Ditto, Edwin D.; and Stone, William S., 3,699,639.
- Stoneburg, Cal W. Wrench. 3,631,549, 1-4-72, Cl. 7-1.
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- Stoneham, Jeffrey R.; and Wood, Lawrence M., to Eastman Kodak Company. Shutter mechanism. 3,707,118, 12-26-72, Cl. 95-62.000.
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Csontos, Louis J.; and Stonehouse, Albert James, 3,694,331.
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Hudson, Robert M.; Stoner, Dorald W.; and Stragand, George L., 3,653,990.
- Stoner, Eugene M. Cam rotor gun. 3,648,561, 3-14-72, Cl. 89-11.
- Stoner, Eugene M.; and Foote, John P., to Oberlikon-Buehrle Holding AG, mesne. Automatic gun breech mechanism having latches to hold the breech block open. 3,656,400, 4-18-72, Cl. 89-138.
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- Stoner, Jack L. Chain lubricating apparatus. 3,684,059, 8-15-72, Cl. 184-15.00b.
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Skoroszewski, Wladyslaw H.; and Stones, Dennis S., 3,697,636.
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- Stong, Guy E.: *See*—
Foster, Gordon F.; and Stong, Guy E., 3,634,111.
- Stong, Guy E., to Corning Glass Works. Magneto-optical elements and glasses. 3,660,291, 5-2-72, Cl. 252-62.51.
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Zvanut, Albert J., 3,670,135.
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Meyer, Erwin; Brendel, Klaus-Dieter; Blau, Hans; and Stoof, Gerhard, 3,647,022.
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Muhler, Joseph C.; and Stokey, George K., 3,699,979.
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Araujo, Roger J.; Cramer, William H.; and Stokey, Stanley D., 3,653,863.
Garfinkel, Harmon M.; Sawchuk, Loris G.; and Stokey, Stanley D., 3,656,923.
Rothermel, Daphne L.; and Stokey, Stanley D., 3,653,864.
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Klavsons, Uldis; Perun, William D.; Stoops, Denzel D.; and Terry, David M., 3,638,613.
- Stoor, Jon D.: *See*—
Heob, Norvel J.; and Stoor, Jon D., 3,644,066.
- Stop-Motion Devices Corporation: *See*—
Tellerman, Edward M.; and Deniega, Castillo, 3,690,127.
- Stopczyk, Mariusz: *See*—
Bukowiecki, Bohdan A.; and Stopczyk, Mariusz, 3,659,616.
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- Stoppard, William E.: *See*—
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Aweida, Jesse I.; Arthur, William C.; and Powers, Gale A., 3,664,604.
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- Epina, August P.; and Pearson, Paul O., 3,703,997.
- Herger, Zoltan L.; and Pearson, Paul O., 3,645,464.
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- Rodriguez, Juan A.; and Monroe, Roger A., 3,662,365.
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- Storer, Arthur J. Toe guard. 3,643,659, 2-22-72, Cl. 128-153.
- Storer, Thomas Kirkly: *See*—
Baker, Ronald; and Storer, Thomas Kirkly, 3,691,164.
- Storey, Owen: *See*—
Murtin, Fernand R. C.; and Storey, Owen, 3,634,760.
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Gale, Walter W.; Denekas, Milton O.; and Storfer, Stanley J., 3,653,437.
- Storhok, Victor: *See*—
Chubb, Walston; Keller, Donald L.; Wullaert, Richard A.; and Storhok, Victor, 3,661,709.
- Storie, Elmer John: *See*—
Nolan, Michael Francis; and Storie, Elmer John, 3,649,490.
- Stork Amsterdam N.V.: *See*—
De Boer, Geert, 3,687,681.
- Van Der Winden, Johannes Bernardus, 3,704,774.
- Vertegaal, Jacobus G., 3,667,426.
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Anselrode, Lodweijk, 3,681,208.
Winden, Johannes Bernardus Van der, 3,687,259.
Wolzak, Willem, 3,687,258.

Storkebaum, Christoph: *See*—
Dorschner, Oskar; Carduck, Franz Josef; Storkebaum, Christoph; and Rother, Claus, 3,655,862.
Dorschner, Oskar; Carduck, Franz Josef; and Storkebaum, Christoph, 3,692,618.

Storm Manufacturing Company: *See*—
Morrison, Jimmie H., 3,633,536.

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Koch, Claude V.; and Storms, Donald G., 3,665,881.

Stormzand, Dale T.: *See*—
Duquette, William F.; Stormzand, Dale T.; and Rauhauser, Warren C., 3,633,628.

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Bratzler, Karl; Herbert, Wilhelm; Hoehne, Reinhard; and Storp, Klaus, 3,637,352.

Storrier, Rolf: *See*—
Schurch, Eugen; and Storrier, Rolf, 3,698,326.
Schurch, Eugene; and Storrier, Rolf, 3,687,367.

Storrs, Charles D.: *See*—
Hawkins, John J.; Storrs, Charles D.; and Zimmerman, Stanley D., 3,661,882.

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Murray, Robert W.; and Story, Paul R., 3,676,394.

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Gerber, Arthur M.; Story, Sybil N.; and Walworth, Vivian K., 3,694,252.

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Satterfield, Homer E.; Stottlemeyer, Keith D.; Brown, David L.; and Roberts, Leslie, 3,700,547.

Stotts, Roger B.: *See*—
McLellan, Donald J.; and Stotts, Roger B., 3,681,974.

Stotz, Erich: *See*—
Heimann, Richard; Stotz, Erich; Asel, Ludwig; and Arnold, Karl, 3,635,303.

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Stoudt, Thomas H.: *See*—
Woodruff, Harold Boyd; and Stoudt, Thomas H., 3,686,393.

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Bowles, Ronald E.; and Stouffer, Ronald D., 3,687,147.

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McIlrath, William P.; and Stougaard, Chris, 3,635,132.

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Willett, Norman F.; Stout, Perry R.; and Brownell, James R., 3,693,443.

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Snook, Richard K.; and Stout, Rodney W., 3,700,862.

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Faunce, Stuart F.; Stout, William E.; and Koehler, Harold W., 3,661,246.

Stoutenberg, Carl C.: *See*—
Brown, Martin A.; and Stoutenberg, Carl C., 3,689,004.

Stouthamer, Bernhard: *See*—
Kwantes, Arien; and Stouthamer, Bernhard, 3,634,495.
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Johnson, Donald W.; Stovall, Ronald J.; and Wheelock, Larry A., 3,668,684.

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Wilens, Seymour; and Trunk, Edmund G., 3,694,703.

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Kostenko, Alla Elisbarovna; Karpukhina, Valentina Vasilievna; Stovpyaga, Valentina Petrovna; Freidlin, Gilia Naumovich; Adamov, Ary Artemovich; and Berezhnaya, Lidia Fedotovna, 3,660,528.

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Leifeld, Klaus; Wochnik, Josef; and Stoy, Erich, 3,695,082.

Stoy, Franz; and Eder, Heinz, to Metabowerke KG. Belt grinding or polishing machine. 3,654,739, 4-11-72, Cl. 51-141.

Stoy, Vladimir: *See*—
Kliment, Karel; Vacik, Jiri; Ott, Zdenek; Majkus, Vladimir; Stol, Miroslav; Stoy, Vladimir; and Wichterle, Otto, 3,689,634.

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Hard, Robert A.; Stoyell, Loyal A.; and Young, Claude F., 3,703,039.

STP Corporation: *See*—
Wright, Sheldon A., 3,696,042.

Straarup, Orla: *See*—
Moller, Aage; and Straarup, Orla, 3,640,467.

Straccia, William J.; Gernert, Brooke E.; and Sherer, Ronald B., to Electro-Space Fabricators, Inc. Printed circuit card rack. 3,696,936, 10-10-72, Cl. 211-41.000.

Stracener, James R.: *See*—
Barbee, Charles L.; Williams, Harlan D.; and Stracener, James R., 3,668,682.

Strachan and Henshaw Limited: *See*—
Alsop, Arthur Graham, 3,653,570.

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Goodhouse, Carl J.; and Strachan, Robert, 3,688,978.

Strachan, Robert, to Robertshaw Controls Company. Digital clock structure and parts therefor. 3,690,963, 9-12-72, Cl. 58-125.00c.

Strachan, Ronald A., to Ideal Industries, Inc. Heating arrangement. 3,654,429, 4-4-72, Cl. 219-346.

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Cox, Ronald H.; and Strack, Hans A., 3,669,655.

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Stradella, Umberto: *See*—
Stradella, Giuseppe; Stradella, Umberto; Daniele, Giuliano; and Gatti, Fernando, 3,648,324.

Stradella, Giuseppe; Stradella, Umberto; Daniele, Giuliano; and Gatti, Recco, 3,707,089.

Strader, George C.: *See*—
Goldfarb, Adolph E.; Strader, Judith D.; and Strader, George C., 3,678,616.

Strader, Judith D.: *See*—
Goldfarb, Adolph E.; Strader, Judith D.; and Strader, George C., 3,678,616.

Stragand, George L.: *See*—
Hudson, Robert M.; Stoner, Dorald W.; and Stragand, George L., 3,653,990.

Strah, Frank L.; and Trepanier, Edward J., to Commercial Screw Products, Inc. Fluid line coupler. 3,643,695, 2-22-72, Cl. 137-614.04. e

Strahan, Robert M.: *See*—
Pietrzak, Joe P.; Campbell, Lewis B.; and Strahan, Robert M., 3,638,903.

Strain, Clifford R.: *See*—
Anderson, Eugene A.; and Strain, Clifford R., 3,690,643.

Strain, Edwin H.: *See*—
Das, Nalini R.; and Strain, Edwin H., 3,689,194.

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Strain, Franklin: *See*—
Hoekje, Howard H.; Strain, Franklin; and Wilson, William L., 3,642,442.

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Krambeck, Robert H.; Panousis, Peter T.; and Strain, Robert J., 3,654,531.

Strain, William H.; and Moore, Peter G., to Wescal Industries, Inc. Magnetic tape machine for magnetic tape cartridges. 3,684,295, 8-15-72, Cl. 274-4.00c.

Straitz, John F., III, to Combustion Unlimited, Incorporated. Vent seals for smoke stack. 3,685,534, 8-22-72, Cl. 137-171.000.

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Kostin, Konstantin Fedorovich; Sapunov, Georgy Konstantinovich; Svirin, Alvan Afanasievich; Strakhov, Valery Ivanovich; and Shur, Grigory Iosifovich, 3,648,091.

Strakosch, Clarence P.: *See*—
Anastasio, Frank J.; Brundage, Clinton F.; and Strakosch, Clarence P., 3,640,407.

Straley, James M.: *See*—
Weaver, Max A.; Straley, James M.; and Coates, Clarence A., Jr., 3,635,941.

Weaver, Max A.; Straley, James M.; and Moore, William H., 3,673,169.

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Stram, Michael A., to Atlantic Richfield Company. Lubricant compositions. 3,657,123, 4-18-72, Cl. 252-34.7.

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Hood, James D.; and Stranch, James G., 3,654,198.

Strand, David L.: *See*—
Ablor Roger L.; and Strand, David L., 3,669,892.

Strand, David L.; and Ablor, Roger L., to Minnesota Mining and Manufacturing Company. Heavy-duty aerosol cleaner. 3,650,956, 3-21-72, Cl. 252-90.

Strand, Robert C.: *See*—
Fritok, William H.; Wolgemuth, Larry G.; and Strand, Robert C., 3,702,320.

Marion, Donald L.; Anderson, Dennis G.; and Strand, Robert C., 3,639,325.

Young, David W.; Strand, Robert C.; and Marion, Donald L., 3,632,839.

Strand, Sanford M.: *See*—
Greening, Donald J.; Kintner, Paul M.; and Strand, Sanford M., 3,655,950.

Strandberg, Charles F., Jr.; and Strandberg, Robert C., to Strandberg Engineering Laboratories Inc. Cost accumulator and method for cost accumulating. 3,632,999, 1-4-72, Cl. 235-92.

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Strandberg Engineering Laboratories Inc.: *See*—
Strandberg, Charles F., Jr.; and Strandberg, Robert C., 3,632,999.

Strandberg, Charles F., Jr.; Strandberg, Robert C.; and Kennon, Jerry M., 3,665,165.

Strandberg, Robert C.: *See*—
Strandberg, Charles F., Jr.; and Strandberg, Robert C., 3,632,999.

Strandberg, Charles F., Jr.; Strandberg, Robert C.; and Kennon, Jerry M., 3,665,165.

Stranddorf, Soren Peter Weis: *See*—
Mikkelsen, Stig Glerup; Ring, Peter; and Stranddorf, Soren Peter Weis, 3,654,445.

Strandell, Per-Olof. Moulds. 3,691,816, 9-19-72, Cl. 72-467.000.

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Strang, Aart: *See*—
Gersmann, Hans A.; Oosterhof, Hendricus A.; and Strang, Aart, 3,663,596.

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Strang, Elmer J.: *See*—
Sorenson, Billy L.; and Strang, Elmer J., 3,685,565.

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Strang, Robert E., to Injection Plastic Co., Inc., The. Window lock. 3,645,573, 2-29-72, Cl. 292-241.

Strang, Urho A.: *See*—
Fournier, Daniel; and Strang, Urho A., 3,664,195.

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- Hoblitt, Louis D.; and Strange, Carl P., 3,660,530.
Hoblitt, Louis D.; and Strange, Carl P., 3,703,565.
Liu, Gordon Y. T.; and Strange, Carl P., 3,678,024.
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Strange, Edward A. Offshore power conversion apparatus. 3,664,125, 5-23-72, Cl. 60-51,000.
Strange, Harold O.: See—
Fareri, Elizabeth L.; Mc Guire, Robert J.; and Strange, Harold O., 3,652,644.
Strange, John P.; Nebash, Stanley P.; McInnes, Alexander C.; and McConaughy, Paul W., to Mine Safety Appliances Company. Filter cassette with removable capsule. 3,686,835, 8-29-72, Cl. 55-270,000.
Strange, Lyle H. Track laying equipment and carrier therefor. 3,680,720, 8-1-72, Cl. 214-38,00r.
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Stranicky, Fedor, to AB Svensk Industris Konstruktions-och Beraknings-Kontor SIKOB. Folding carton consisting of a strip of sheet material folded to form a tube and provided with end walls. 3,653,579, 4-4-72, Cl. 229-37.
Stransky, Miroslav: See—
Kacalek, Josef; Bartos, Josef; and Stransky, Miroslav, 3,661,019.
Strapex A.G.: See—
Styner, Rudolf, 3,662,790.
Strapp, Joseph P.; and Cornford, Neri E., to United States of America, Navy. Apparatus for determining the presence of a vessel by detecting its wake. 3,706,962, 12-19-72, Cl. 340-4,00r.
Straschil, Heinrich K.: See—
Greenspan, Lawrence; and Straschil, Heinrich K., 3,637,473.
Strashinsky, Vadim Konstantinovich: See—
Kasatkin, Yuri Ivanovich; Filimonov, Alexandr Vasilievich; Erlykov, Nikolai Sergeevich; Chikirda, Sergei Ivanovich; Strashinsky, Vadim Konstantinovich; and Zeldin, Vladimir Pinsokovich, 3,681,833.
Strassberg, Daniel D.: See—
Templeton, Leroy N., Jr.; Grant, Paul J.; and Strassberg, Daniel D., 3,633,093.
Strassel, Albert Pierre, to Wyandotte Chemicals Corporation. Single-step process for preparing a cellular product having a very compact elastomeric skin. 3,655,597, 4-11-72, Cl. 260-2,5.
Strassel, Donald C., to Stuart, C. H., & Co., Inc. Adjustable two-finger ring with removable ornament. 3,688,520, 9-5-72, Cl. 63-15,500.
Strasser, Alois: See—
Kaiser, Wolfgang; Nitzsche, Siegfried; Wohlfarth, Ernst; Strasser, Alois; and Hittmair, Paul, 3,677,997.
Strasser, Helmut: See—
Mayr, Helmut; Pelte, Richard; Hubert, Theo; and Strasser, Helmut, 3,676,759.
Strasser, Rudolf: See—
Wogerbauer, Alfred; and Strasser, Rudolf, 3,656,515.
Strategic Automated Systems, Inc., mesne: See—
Grosbard, Gregory, 3,662,156.
Strategic Metals Research, Inc.: See—
Grosbard, Gregory, 3,648,242.
Stratenus, Jan L., to Shell Oil Company. Production of monoolefins. 3,662,019, 5-9-72, Cl. 260-683,3.
Strater, Kurt; Hall, William Bernard; Mihalick, Eugene Michael; and Stever, William Charles, to RCA Corporation. High capacity deposition reactor. 3,673,983, 7-4-72, Cl. 118-48,000.
Stratford Engineering Corporation: See—
McGovern, Louis J.; West, Charles L.; and Webb, Orlando, 3,665,050.
Stratford Industries, Inc.: See—
Lehman, Harry W., 3,654,734.
Strathearn, Donald M.; Thornbery, James M.; and Wilcox, Dale F., to Controls Company of America. Timer. 3,650,157, 3-21-72, Cl. 74-122.
Strathman, Lyle R.: See—
Rutherford, Kenneth R.; and Strathman, Lyle R., 3,638,192.
Stratienko, Andrew. Mechanical rotary self-interlocking device. 3,638,974, 2-1-72, Cl. 287-52,06.
Stratman, Jerome F.: See—
Mackay, Frederick G.; and Stratman, Jerome F., 3,648,878.
Stratman, John A.: See—
Rogers, John J.; and Stratman, John A., 3,641,487.
Stratman, John A., to Lumidor Products Corporation. Piggy-back amplifier. 3,632,878, 1-4-72, Cl. 179-1.
Stratman, Paul E., to Safe Way Hydraulics, Inc. Hydraulic coupler. 3,674,051, 7-4-72, Cl. 137-614,040.
Stratmann, Josef: See—
Knappstein, Johannes; and Stratmann, Josef, 3,652,403.
Stratmann, Josef; and Strobel, Manfred, to Still, Carl, Firma. Quench chamber construction for the quenching of coke. 3,684,664, 8-15-72, Cl. 202-227,000.
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Stratton & Terstegge Co., Inc.: See—
Dew, Robert C., 3,669,429.
Stratton, Charles A., to Phillips Petroleum Company. Oil recovery process. 3,659,650, 5-2-72, Cl. 166-275.
Stratton, Cleo C. Engine. 3,675,630, 7-11-72, Cl. 123-70,00r.
Stratton, Edwin F., to Mercury Processors, Inc. Mercury, vapor type ore reduction apparatus and method. 3,662,998, 5-16-72, Cl. 266-16.
Stratton, George B.: See—
Geering, Emil J.; and Stratton, George B., 3,646,083.
Geering, Emil J.; and Stratton, George B., 3,647,885.
Stratton, Jerry L.; and Kessler, George W., to General Electric Company. Method for dual mode control changeover in a steam turbine. 3,637,319, 1-25-72, Cl. 415-1.
Stratton, Patrick Joseph. Post anchor. 3,698,144, 10-17-72, Cl. 52-99,000.
Straub, Bruno E.: See—
Uhtenwoldt, Herbert R.; Grotewold, William H.; and Straub, Bruno E., 3,650,076.
Straub, Bruno E.; and Grotewold, William H., to Cincinnati Milacron-Heald Corporation. Control system for a hydraulic motor. 3,685,395, 8-22-72, Cl. 91-216,00b.
Straub, Dieter: See—
Fischer, Gerd; Straub, Dieter; and Voigt, Heinz Eberhard, 3,678,301.
Saenger, Franz; and Straub, Dieter, 3,700,875.
Straub, Dieter, to Telefunken Patentverwertungsgesellschaft m.b.H. Full adder. 3,679,883, 7-25-72, Cl. 235-175,000.
Straub, E. R. Carl. Reed switch. 3,689,859, 9-5-72, Cl. 335-206,000.
Straub, Paul J., to Mallory, P. R., & Co., Inc. Timer with internal stop mechanism comprising annular ring structure interfitting complementary housing members. 3,699,277, 10-17-72, Cl. 200-38,00r.
Straub, Richard K., to Farbenfabriken Bayer Aktiengesellschaft. Cutting torch tip guide. 3,698,701, 10-17-72, Cl. 266-23,00m.
Straubel, Max, to Zundapp-Werke Gesellschaft mit beschränkter Haftung, Firma. Internal combustion engine with controlled lubrication supply. 3,648,677, 3-14-72, Cl. 123-196.
Straubing, Irlbach B.: See—
Jirka, Karl; Gutthuber, Johann; and Straubing, Irlbach B., 3,705,950.
Strauch, Heinrich. Inductive transducers. 3,634,799, 1-11-72, Cl. 336-92.
Straughan, Virgil E.: See—
Fotland, Richard A.; Straughan, Virgil E.; and Cameron, John, 3,658,533.
Straughn, Robert O.; and Reinhart, Richard D., to General Mills, Inc. Process for producing an onion flavored snack. 3,653,916, 4-4-72, Cl. 99-8,1.
Straumann, Dr., Ing., Reinhard, Institut: See—
Steinemann, Samuel, 3,643,658.
Straus, Alan E., to Chevron Research Company. Linear alkylbenzene compositions. 3,647,899, 3-7-72, Cl. 260-668.
Straus, Alan E., to Chevron Research Company. Water-containing dry cleaning compositions. 3,655,572, 4-11-72, Cl. 252-171.
Straus, Albert E. Suture cutter. 3,659,343, 5-2-72, Cl. 30-124.
Straus, Barry: See—
Tillett, Thomas J.; and Straus, Barry, 3,693,805.
Strauss, Cyrus M.; and Bauer, John M., to Allied Chemical Corporation. Etching solutions. 3,650,960, 3-21-72, Cl. 252-79,3.
Strauss, Edgar H., to Ruti Machinery Works, Ltd. Insertion element for inserting weft threads on a loom. 3,640,313, 2-8-72, Cl. 139-12.
Strauss, Edgar H., to Ruti Machinery Works, Ltd.; formerly Caspar Honegger. Shed-forming apparatus on a loom. 3,640,314, 2-8-72, Cl. 139-12.
Strauss, Edgar H., to Ruti Machinery Works, Ltd.; formerly Caspar Honegger. Device for producing thread windings on a loom. 3,672,404, 6-27-72, Cl. 139-12,000.
Strauss, Edgar H., to Ruti Machinery Works, Ltd. Reed tooth arrangement on a wave-type loom. 3,678,966, 7-25-72, Cl. 139-12,000.
Strauss, Edgar H. Guide arrangement for weft thread inserting elements. 3,683,969, 8-15-72, Cl. 139-12,000.
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Strauss, Georg: See—
Preisler, Eberhard; Forath, Karl-Friedrich; and Strauss, Georg, 3,634,215.
Strauss, George M., to Kollsman Instrument Corporation. Parameter read-out systems for pressure-frequency transducers. 3,668,930, 6-13-72, Cl. 73-386,000.
Strauss, Gunther; Schneider, Klaus; and Jacquemin, Werner, to Chemische Werke Huls Aktiengesellschaft. Production of alcohols. 3,651,153, 3-21-72, Cl. 260-617.
Strauss, Herbert S.: See—
Cortorillo, Salvatore; Shaffer, George A.; and Strauss, Herbert S., 3,636,401.
Strauss, Herbert S., to Duro-Test Corporation. Seal structures for electric discharge lamps. 3,675,068, 7-4-72, Cl. 313-217,000.
Strauss, Irving: See—
Dabrush, Charles; and Strauss, Irving, 3,639,992.
Dabrush, Charles; and Strauss, Irving, 3,678,585.
Strauss, John G.: See—
Romick, Roscoe B.; and Strauss, John G., 3,700,120.
Strauss, Karl Peter: See—
Albrecht, Hermann Friedrich; and Strauss, Karl Peter, 3,699,427.
Strauss, Karl-Peter, to Rollei-Werke Franke & Heidecke. Capacitor overcharge protection circuit. 3,681,672, 8-1-72, Cl. 320-1,00.
Strauss, Levi, & Co.: See—
Michaels, Sid, 3,685,179.
Strauss, Martin. Projector. 3,692,398, 9-19-72, Cl. 353-26,000.
Strauss, Robert E.: See—
Payson, Buford L., 3,693,936.
Strauss, Robert E.; and Hashimoto, Saburo, to Union Oil Company of California. Plant growth stimulated by a combination of glycolic acid and gibberellin. 3,679,392, 7-25-72, Cl. 71-89,000.
Strauss, Robert G.: See—
Shaw, Charles H.; and Strauss, Robert G., 3,635,632.
Strauss, Rudolf Siegfried; and Teitz, Peter David, to Fry's Metals Limited. Soldering fluxes. 3,675,307, 7-11-72, Cl. 29-495,000.
Strauss, Walter: See—
Bobek, Andrew Henry; Ciak, Frank John; and Strauss, Walter, 3,702,995.
Strauss, William A., Jr. Coil form. 3,697,911, 10-10-72, Cl. 336-84,000.
Straw Engines (Proprietary) Limited: See—
Schoeman, Musgrave; and Warrington, Herbert Halliday, 3,666,063.
Straw, Kimball; and Price, William H., to Eastman Kodak Company. Zoom lens. 3,649,101, 3-14-72, Cl. 350-184.
Strawn, Charles F.; and Donovan, John C., to Johnson Service Company. Apparatus for measuring small changes in condition sensitive capacitance transducers. 3,636,444, 1-18-72, Cl. 324-61.
Strawser, Terry M.: See—
Fischer, Alfred; and Strawser, Terry M., 3,701,729.
Strawsine, Frederick W., to Strawsine Manufacturing Company. Plastic mirror track. 3,636,661, 1-25-72, Cl. 49-413.
Strawsine Manufacturing Company: See—
Strawsine, Frederick W., 3,636,661.
Strazdins, Atis. Collapsible tube containers. 3,648,895, 3-14-72, Cl. 222-107.
Strazdins, Edward: See—
Kulick, Russell Joseph; and Strazdins, Edward, 3,666,512.
Strazza, Neal P., to Isotopes, Inc. Method of fabricating porous metal bodies. 3,652,745, 3-28-72, Cl. 264-5.
Strazzulla, Raymond L.: See—
Xenakis, James A.; Zechnowitz, Alvin L.; and Strazzulla, Raymond L., 3,683,440.
Stream, Ralph M., to Owens-Corning Fiberglass Corporation. Apparatus for making continuous glass fibers. 3,701,642, 10-31-72, Cl. 65-11,00w.
Streater Industries, Inc.: See—
Fenwick, Jay G., 3,664,511.
Fenwick, Jay G., 3,698,567.
Fenwick, Jay G., 3,701,325.
Toth, Steven J., 3,633,378.
Streater Industries, Inc., mesne: See—
Fenwick, Jay G., 3,664,511.
Streb, Alan J.: See—
Bienert, Walter B.; Levedahl, William J.; and Streb, Alan J., 3,672,443.
Streb, Alan J., to Dynatherm Corporation. Engine exhaust gas heater. 3,662,542, 5-16-72, Cl. 60-31.
Streb, Alan J.; Stivers, George S.; and Kelly, Howard R., to Teledyne, Inc., mesne. High versatile radioisotope thermoelectric generator. 3,668,015, 6-6-72, Cl. 136-202.
Streb, Ernest L., to Frontier Industries, Inc. Apparatus for cradling tanks. 3,650,501, 3-21-72, Cl. 248-146.
Strebe, Arthur C.: See—
Rutherford, Kenneth R.; and Strebe, Arthur C., 3,680,091.
Strebel, Albert; and Scheuber, Konrad, to Maschinenfabrik Burckhardt AG. Hydraulic power transmission. 3,653,211, 4-4-72, Cl. 60-54,5.
Strebel, Albert; and Habegger, Oskar, to Maschinenfabrik Burckhardt AG. Crosshead arrangement for the drive mechanism of high-pressure compressors and pumps. 3,657,972, 4-25-72, Cl. 92-128.
Strebel, Albert; and Habegger, Oskar, to Maschinenfabrik Burckhardt AG. Push rod for a crank drive mechanism. 3,677,107, 7-18-72, Cl. 74-579,00r.
Streibig, Richard W. Automatic electric jig-fishing device. 3,691,668, 9-19-72, Cl. 43-19,200.
Strebkov, Dmitry Semenovich: See—
Lidorenko, Nikolai Stepanovich; Landsman, Arkady Pavlovich; Strebkov, Dmitry Semenovich; Zaitseva, Aita Konstantinovna; Zade, Vitaly Viktorovich; and Kosarev, Viktor Sergeevich, 3,653,971.
Streck, Clemens, to GAF Corporation. Process for dyeing polyurethane foam in non-aqueous dye bath. 3,635,652, 1-18-72, Cl. 8-4.
Streck, Clemens, to GAF Corporation. Direct dye, alkanolamine or morpholine, and neutral salt concentrate and milling preparation thereof. 3,679,353, 7-25-72, Cl. 8-79,000.
Strecker, Otto C., K.G.: See—
Moesser, Wilhelm, 3,674,194.
Strecker, Ernest H. Automatic veneer measuring and clipping control system. 3,670,614, 6-20-72, Cl. 83-208,000.
Streckmann, George L., to Intermedcraft Corporation, mesne. Recording and reproducing apparatus. 3,651,280, 3-21-72, Cl. 179-100,2.
Streed, Carl W.; and Yan, Tsoung-Yuan, to Mobil Oil Corporation. Hydrocracking process with zeolite and amorphous base catalysts. 3,702,818, 11-14-72, Cl. 208-89,000.
Streed, Suzanne M.: See—
Cutler, Gary P.; and Streed, Suzanne M., 3,645,280.
Streel, Dominique Thomas Francois: See—
Delcours, Leon Joseph Eugene; and Streel, Dominique Thomas Francois, 3,693,582.
Street, Frederick G.; and Buckwalter, Paul S. Disc puzzle. 3,674,276, 7-4-72, Cl. 273-157,00r.
Street, George Bryan: See—
Kanazawa, Kay Keiji; and Street, George Bryan, 3,666,554.
Kanazawa, Kay Keiji; Seiki, Hajime; and Street, George Bryan, 3,700,498.
Street, Graham S. B.: See—
Frisch, Otto R.; and Street, Graham S. B., 3,651,392.
Street, Robert W.: See—
Nowotny, Kurt A.; and Street, Robert W., 3,644,209.
Street, Robert W., to Monsanto Company. Synergistic functional fluid compositions. 3,657,128, 4-18-72, Cl. 252-49,9.
Street, Terrell Ray: See—
Klemm, Carl John; Tietz, Richard August; Street, Terrell Ray; and Blake, Trevor, 3,661,577.
Street, Vern A.: See—
Neer, Harold M.; and Street, Vern A., 3,701,908.
Streeter, Edward: See—
Richardson, Donald W.; Roscoe, Stanley N.; and Streeter, Edward, 3,652,836.
Streeter, Maurice W. Crutch with retractable ice gripper. 3,646,949, 3-7-72, Cl. 135-58.
Streetman, Foy J.; and Armitstead, John D. Gouger attachment for conventional electrode holder. 3,654,421, 4-4-72, Cl. 219-70.
Streets, William L.; and Glenn, Charles O., to Phillips Petroleum Company. Dewaxing of waxy petroleum distillates. 3,682,812, 8-8-72, Cl. 208-38,0900.
Strege, Robert J., Sr., to Sperry Rand Corporation. Monitor for servo systems. 3,634,746, 1-11-72, Cl. 318-565.
Strehle, Horst, to Kombinat Veb Pentacon Dresden Kamera- und Kinowerke. Objective lens adaptor. 3,641,892, 2-15-72, Cl. 95-10.
Strehler, Erich; Kaumle, Fritz; and Rolf, Stuttgart, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Compound crankshaft with a drive-gear wheel for multi-cylinder piston engines, especially internal combustion engines. 3,686,971, 8-29-72, Cl. 74-597,000.
Strehler, Richard; Eichinger, Hans; and Hubl, Julius, to Hurth, Carl, Maschinen- und Zahnradfabrik. Shiftable friction clutch. 3,703,226, 11-21-72, Cl. 192-48,910.
Strehlke, Gunter; and Fuchs, Gundolf, to Deutsche Texaco Aktiengesellschaft. Process for production of 1,3-dimethyl-5-isopropylbenzene. 3,636,184, 1-18-72, Cl. 260-672.
Strehlow, Wolfgang H. Epitaxial film process and products thereof. 3,692,572, 9-19-72, Cl. 117-201,000.
Streich, Martin, to Messer Griesheim GmbH. Process for separating a liquid gas mixture containing methane. 3,656,312, 4-18-72, Cl. 62-28.
Streich, Martin, to Linde Aktiengesellschaft. Prefractionation with subsequent recombination of feed in double column rectifier. 3,683,634, 8-15-72, Cl. 62-29,000.
Streich, Martin; and Voigt, Hartmut, to Messer Griesheim GmbH. Production of nitrogen and argon-free oxygen. 3,688,513, 9-5-72, Cl. 62-22,000.
Streicher, Heinz: See—
Leutwein, Manfred; and Streicher, Heinz, 3,671,116.
Leutwein, Manfred; and Streicher, Heinz, 3,702,697.

- Streicher, Heinz; Riek, Siegfried; and Leutwein, Manfred, to Eastman Kodak Company. Reader for information carriers in sheet form. 3,645,612, 2-29-72, Cl. 353-27.
- Streicher, Heinz; Riek, Siegfried; and Leutwein, Manfred, to Eastman Kodak Company. Reader for information carriers in sheet form. 3,674,351, 7-4-72, Cl. 353-27.000.
- Streit, Klaus: See—
- Boeters, Karl-Ernst; Conzelmann, Gerhard; Streit, Klaus; and Fleischer, Hans-Joachim, 3,662,228.
- Boeters, Karl-Ernst; Streit, Klaus; Conzelmann, Gerhard; Schmid, Hermann; and Fleischer, Hans-Joachim, 3,662,720.
- Streitberger, Ernst Friedrich Henning: See—
- Gruler, Josef; Boronovi, Bruno; Streitberger, Ernst Friedrich Henning; and Kratt, Kurt Wilhelm, 3,646,326.
- Strejc, Bohuslav, to Skoda, narodni podnik. Apparatus for finishing globoid worms. 3,641,708, 2-15-72, Cl. 51-33.
- Strekalov, Anatoly Vasilievich: See—
- Bondarev, Konstantin Timofeevich; Kozmin, Mikhail Ivanovich; Minakov, Anatoly Gavrilovich; Minin, Vladimir Ivanovich; Mitkevich, Grigory Iosifovich; and Strekalov, Anatoly Vasilievich, 3,684,475.
- Strelets, Khaim Lipovich; Chesnokov, Alexandr Sergeevich; Devyatkin, Vladimir Nikolaevich; Tatakin, Alexandr Nikolaevich; Krasikov, Evsei Dmitrievich; Leonova, Ljudmila Sergeevna; Medvetskaya, Galina Arkadiyevna; and Nechaeva, Tatyana Georgievna. Fused salt electrolyzer for magnesium production. 3,676,323, 7-11-72, Cl. 204-244.000.
- Strelitz, Justina: See—
- Roth, Barbara; and Strelitz, Justina, 3,692,787.
- Strelitz, Robert A.: See—
- Elion, Gertrude B.; and Strelitz, Robert A., 3,666,856.
- Strelow, Alfred; and Hascher, Klaus, to Siemens Aktiengesellschaft. Intermediate storer for apparatus for stranding a twisted unit of a cable. 3,664,108, 5-23-72, Cl. 57-34.
- Strelow, Gert: See—
- Bodig, Bernd; Sohner, Gerhard; and Strelow, Gert, 3,703,889.
- Issler, Jorg; Hohne, Gerd; Strelow, Gert; and Roth, Helmut, 3,635,202.
- Strelshik, Arthur D., to United Aircraft of Canada Limited. Compressor blades. 3,706,512, 12-19-72, Cl. 416-236.000.
- Streng, Ludwig. Device for measuring the thickness of metallic layers utilizing beta ray backscattering. 3,639,763, 2-1-72, Cl. 250-83.3.
- Strenglein, Harry F.: See—
- Robinson, Gerald H.; and Strenglein, Harry F., 3,707,688.
- Strenglein, Harry F., to Sperry Rand Corporation. High frequency signal memory and regenerator. 3,676,865, 7-11-72, Cl. 340-173.00c.
- Strenglein, Harry F., to Sperry Rand Corporation. High frequency test device. 3,683,381, 8-8-72, Cl. 343-17.700.
- Strenglein, Harry F., to Sperry Rand Corporation. Vehicle tire pressure monitor system. 3,694,803, 9-26-72, Cl. 340-58.000.
- Streschnak, Benno; and Doll, Willy, to Haarmann & Reimer Gesellschaft mit beschränkter Haftung. Ultraviolet radiation protection composition, containing a mixture of cinnamic acid esters. 3,644,614, 2-22-72, Cl. 424-60.
- Stresemann, Siegfried; Langlit, Karl-Heinz; and Mahringer, Karl-Heinz, to Demag Aktiengesellschaft. Support arrangement for metallurgical vessel such as steel mill converter. 3,652,072, 3-28-72, Cl. 266-36.
- Stress Corporation: See—
- Batterman, Steven C., 3,653,373.
- Stretanski, Joseph Anthony, to American Cyanamid Company. Stabilization of poly(vinyl chloride). 3,657,183, 4-18-72, Cl. 260-45.8.
- Streu, Benno, to Hellige, Fritz, & Co., GmbH. Illumination of projecting apparatus. 3,642,361, 2-15-72, Cl. 353-57.
- Strianese, Bernard V., to Ackerman Engravers Inc. Miniature lighting device. 3,638,009, 1-25-72, Cl. 240-2.
- Stribling, Robert M.: See—
- Buffington, Herman L.; and Stribling, Robert M., 3,631,630.
- Strick Corporation: See—
- Tenenbaum, Paul; and Seng, Paul J., 3,692,363.
- Strick, Karl H., to Fram Corporation. Prestressed flexible bladed fan. 3,679,321, 7-25-72, Cl. 416-132.000.
- Strickel, William R.: See—
- Liloia, Gerald J.; May, Louis F., Jr.; Schiff, Norman; Mesek, Frederick K.; Shepherd, Robert C.; and Strickel, William R., 3,663,348.
- Stricker, Alfred A.: See—
- Anzelone, Thomas A., Jr.; Larson, Harold A.; and Stricker, Alfred A., 3,677,853.
- Stricker, Charles D.: See—
- Harvey, Mahlon A.; and Stricker, Charles D., 3,707,400.
- Sallo, Richard L.; and Stricker, Charles D., 3,668,090.
- Stricker, David M.: See—
- Ference, Richard N.; Grega, Albert; Miller, James A.; Stewart, Ray T.; and Stricker, David M., 3,700,101.
- Stricker, Edward G.: See—
- Lair, Robert C.; Pakurar, Julia H.; and Stricker, Edward G., 3,659,423.
- Stricker, Herbert, to Boehringer Ingelheim G.m.b.H. Apparatus and process for in-vitro determination of the dissolution behavior of drugs or pharmaceutical compositions containing the same in the gastrointestinal tract. 3,684,448, 8-15-72, Cl. 23-230.00b.
- Stricker, Reinhold: See—
- Koennecke, Wolfgang; and Stricker, Reinhold, 3,642,158.
- Strickland, Barney R.: See—
- Illyckij, Stephan; Cole, John Charles O.; Feldman, Nicholas; and Strickland, Barney R., 3,640,691.
- Strickland, Carl G.; and Clark, Walter D. Limb removing apparatus. 3,690,351, 9-12-72, Cl. 144-2.00z.
- Strickland, Edward T.: See—
- Amos, Homer C.; and Strickland, Edward T., 3,682,690.
- Strickland, Edward T.; and Amos, Homer C., to PPG Industries, Inc. Method and apparatus for providing controlled quench in the manufacture of fiber glass. 3,697,241, 10-10-72, Cl. 65-2.
- Strickland, James P.: See—
- Sherwood, Noble P., Jr.; and Strickland, James P., 3,637,029.
- Strickland, Robert E. Opinion sampling apparatus. 3,689,930, 9-5-72, Cl. 346-1.000.
- Strickland, William T., Jr.: See—
- Hamby, Tyler W., Jr.; and Strickland, William T., Jr., 3,646,999.
- Strickler, Allen; and Beebe, Cedric H., to Beckman Instruments, Inc. Ammonia sensor. 3,649,505, 3-14-72, Cl. 204-195.
- Strickler, Allen, to Beckman Instruments, Inc. Continuous electrophoresis cell with lateral pH gradient. 3,655,541, 4-11-72, Cl. 204-180.
- Strickler, Allen, to Beckman Instruments, Inc. Closed loop hygrometry. 3,661,724, 5-9-72, Cl. 204-1.
- Strickler, Allen, to Beckman Instruments, Inc. Cross-section illuminator for a continuous particle electrophoresis cell. 3,663,395, 5-16-72, Cl. 204-180.
- Strickler, Carl D. Golf club grip guide. 3,648,292, 3-14-72, Cl. 2-161.
- Strickman Industries, Inc.: See—
- Strickman, Robert L., 3,657,125.
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- Strier, Murray P.; and Smatko, Joseph S., to McDonnell Douglas Corporation. Method of producing an electrode with a polymer binder by rolling. 3,706,601, 12-19-72, Cl. 136-20.000.
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- Strohmeier, Harold, to Gebr. Bohler & Co. Aktiengesellschaft. Apparatus for supplying flowable material. 3,690,513, 9-12-72, Cl. 222-55.000.
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- Strohmeier, Garry G., to Honeywell, Inc. Control apparatus. 3,668,686, 6-6-72, Cl. 340-324.00a.
- Strohschneider, Heinz F., to Farrington Business Machines Corporation. Traveling cylinder printer with platen movement responsive document clamping means. 3,654,862, 4-11-72, Cl. 101-269.
- Strohschneider, Walter, to Zellweger Ltd. System for identifying articles. 3,681,571, 8-1-72, Cl. 235-61.70r.
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- Strojna Tovarna Trbovlje: See—
- Beslin, Dragoljub; Beherano, Benko; and Mirkovic, Radivoj, 3,645,020.
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- Kaminski, Elton G., 3,656,335.
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- Strom, Eric T.: See—
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Merrill, Clifford C.; and Strombeck, Carl E., 3,667,184.

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Artaud, Maurice H., 3,667,839.

Artaud, Maurice H.; Johnson, Ronald W.; and Sampath, Prativadi I., 3,674,354.

Boyd, Sherman H., Jr., 3,674,591.

Compton, Robert H.; and Bell, Alexander, 3,633,065.

Cunningham, Omar Leo, Jr., 3,700,318.

Hamann, Omer F., 3,645,188.

Hamann, Omer F., 3,662,204.

Hamann, Omer F., 3,673,933.

Harkins, Patrick A., Jr., 3,676,317.

Rottmiller, Edmund H., 3,667,830.

Rottmiller, Edmund H., 3,673,932.

Stromberg, Henry M.: *See—*

Kennedy, Ralph C.; La Violette, Paul A.; and Stromberg, Henry M., 3,670,442.

Stromberg, Juhani: *See—*

Miettinen, Jorma; Autio, Timo; and Stromberg, Juhani, 3,663,261.

Stromberg, Sanford E., to Textron Inc. Electrodeposition method and product. 3,674,671, 7-4-72, Cl. 204-181.

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Altenburger, Otto, 3,671,678.

Altenburger, Otto, 3,699,265.

Altenburger, Otto, 3,705,268.

Bartlett, William F.; and Oswald, William A., 3,639,693.

Bartlett, William F.; Gifford, John C.; Lenk, Pedro A.; Oswald, William A.; Shaw, Frank Y.; Stuebe, Thomas D.; and Yost, Lloyd H., 3,662,349.

Boehly, Michael A., 3,678,222.

Budrys, Ignas, 3,653,018.

Budrys, Ignas; and Lee, Ernest O., Jr., 3,676,603.

Budrys, Ignas; and Lee, Ernest O., Jr., 3,692,946.

Budrys, Ignas; and Lee, Ernest O., Jr., 3,694,583.

Collier, Robert W., 3,678,508.

Fassett, Matthew; and Unger, Phyllis S., 3,641,564.

Goetchius, Norman E.; and Zaky, Amin Y., 3,676,602.

Goetchius, Norman E.; and Zaky, Amin Y., 3,688,050.

Gueldenpfennig, Klaus, 3,637,944.

Gueldenpfennig, Klaus; and Hastings, William, 3,646,277.

Gueldenpfennig, Klaus; Pommerening, Uwe A.; and Russell, Stanley L., 3,676,606.

Gueldenpfennig, Klaus; Pommerening, Uwe A.; and Russell, Stanley L., 3,679,835.

Gueldenpfennig, Klaus; Reehil, Edward G.; and Tryon, Lansing E., 3,705,386.

Gueldenpfennig, Klaus; Pommerening, Uwe A.; and Russell, Stanley L., 3,707,140.

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Hugycz, Matyas; and Richmond, Carroll S., 3,688,038.

Jorgensen, Adam A.; Bentley, William; and Urycki, Edward, 3,676,747.

Kavanaugh, Paul K.; and Boehly, Michael A., 3,686,443.

Koegler, Ansel A., 3,704,504.

Lee, Ernest O., Jr.; Adams, John A., Jr.; and Budrys, Ignas, 3,651,270.

Lee, Ernest O., Jr., 3,660,600.

Lee, Ernest O., Jr.; and Adams, John A., Jr., 3,671,677.

Lee, Ernest O., Jr., 3,699,262.

Lee, Ernest O., Jr.; and Adams, John A., Jr., 3,707,605.

Neumeier, Gunter F.; and Altenburger, Otto, 3,699,263.

Pearce, James Gordon, 3,673,337.

Penczek, Edward S., 3,671,702.

Pommerening, Uwe A., 3,688,201.

Qualich, Amedeo, 3,646,668.

Shaffer, William E., 3,665,109.

Shaffer, William E., 3,676,601.

Stuebe, Thomas D.; Lenk, Pedro A.; and Gifford, John C., 3,643,229.

Suntop, Morris A.; and Randmere, Uno, 3,649,778.

Suntop, Morris A.; and Randmere, Uno, 3,673,330.

Stromberg-Carlson Corporation, *mesne*: *See—*

Bryzinski, Thaddeus F.; and Martin, Joseph F., 3,699,549.

Strommer, Palmer K.: *See—*

Dunning, Herbert N.; Strommer, Palmer K.; and Vanhulle, Glenn J., 3,707,380.

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Melnick, Samuel H.; Landsman, Walter A.; and Stromski, Walter A., 3,702,023.

Strong, Barry Colin: *See—*

Blood, Raymond; and Strong, Barry Colin, 3,641,789.

Strong, Barry Colin, to William Cotton Limited. Racked programming control means. 3,643,473, 2-22-72, Cl. 66-155.

Strong, Irene: *See—*

Strong, John H., 3,638,813.

Strong, Jerry G.; and Kaufman, Harold A., to Mobil Oil Corporation. 4-Oxoperhydrobenzo [b] thiophenes and their preparation. 3,678,070, 7-18-72, Cl. 260-332.30p.

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Rollen, Wayne N.; Strong, Larry J.; and Rolen, Hurschel H., 3,648,146.

Strong, Roger K., to Honeywell Inc. Hygrometer. 3,662,601, 5-16-72, Cl. 73-337.5.

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Stropki, George T., to North American Rockwell Corporation. Spiral antenna with overlapping turns. 3,656,168, 4-11-72, Cl. 343-895.

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Eggertsen, Frank T.; Seibert, Elmer E.; and Stross, Fred H., 3,661,527.

Strossner, Johannes; and Drebes, Armin, to Zundapp-Werke Gesellschaft mit beschränkter Haftung, Firma. Liquid cooled single or multiple cylinder two cycle combustion engine. 3,643,637, 2-22-72, Cl. 123-41.72.

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Strother, John. Automatic pet feeder. 3,638,618, 2-1-72, Cl. 119-51.12.

Strother, Seldon D. Shelf container for film strip. 3,675,982, 7-11-72, Cl. 312-278.000.

Strott, David B.: *See—*

Trimble, Carter H.; and Strott, David B., 3,640,678.

Stroud, Ray D. Safety lid. 3,642,161, 2-15-72, Cl. 215-9.

Stroup, Ralph F.; Clingman, William H., Jr.; and Post, Robert C., to Materials Technology Corporation. Method for forming adherent titanium carbide coatings on metal or composite substrates. 3,684,585, 8-15-72, Cl. 148-6.000.

Strout, Frederick D., to General Electric Company. Video generator for data display. 3,675,232, 7-4-72, Cl. 340-324.00a.

Strozak, Stephen: *See—*

Krisak, Edward J.; and Strozak, Stephen, 3,661,399.

Strub, Dietrich: *See—*

Kuffer, Francois; and Strub, Dietrich, 3,674,050.

Strub, Fritz, to Filtrox-Maschinenbau AG. Filter and method of cleaning the filter. 3,637,079, 1-25-72, Cl. 210-82.

Strubbe, Gilbert J.: *See—*

De Coene, Frans J.; and Strubbe, Gilbert J., 3,669,124.

Strube, Didier Charles: *See—*

Bonami, Robert Raoul Charles; Lerouge, Claude Paul Henri; and Strube, Didier Charles, 3,653,033.

Strube, Henn Robert, 1/2 to Societe de Recherches et de Realisations Industrielles S.R.R.I. (Societe Anonyme). Drying cylinders. 3,643,344, 2-22-72, Cl. 34-124.

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Heaney, Paul R.; and Strubel, Gad E., 3,639,048.

Struber, Gunter; and Schmaldienst, Peter. Ignition arrangements for internal combustion engines. 3,704,701, 12-5-72, Cl. 123-148.00e.

Strubhar, Malcolm K.: *See—*

Glenn, Edwin E., Jr.; Slover, Vase R.; and Strubhar, Malcolm K., 3,705,626.

Strubin, Harald: *See—*

Friedrich, Edmund; and Strubin, Harald, 3,649,790.

Struble, Arthur D., Jr. Ski concept. 3,687,472, 8-29-72, Cl. 280-11.37b.

Struble, Glenn E., to Diamond International Corporation. Packaging sleeve with heat-shrinkable protection sling and blank for producing same. 3,669,337, 6-13-72, Cl. 229-14.0ba.

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Struck, Charles R.: *See—*

Deverman, Kenneth D.; and Struck, Charles R., 3,699,652.

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Marsh, Norman F.; and Struck, Karl W., 3,643,063.

Structural Fibers, Inc.: *See—*

Wiltshire, Arthur J.; Ranallo, Henry U.; and Czumber, Frank E., 3,654,002.

Wiltshire, Arthur J., 3,673,673.

Wiltshire, Arthur J., 3,674,394.

Wiltshire, Arthur J., 3,674,599.

Wiltshire, Arthur J., 3,687,587.

Structural Industries, Inc.: *See—*

Hirsch, Stanley; and Schneider, Irving, 3,698,114.

Structural Paper Company, *mesne*: *See—*

Lichtenstein, Immanuel; and Wolf, Murray, 3,632,408.

Struers, H., Chemiske Laboratorium: *See—*

Duhring, Orloff; and Damaard, Lavritz Gudmund, 3,704,568.

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Kemppinen, Auvo I.; and Strum, Bobbie W., 3,670,542.

Strumbos, William P. Method for constructing a honeycomb core structure. 3,644,158, 2-22-72, Cl. 156-197.

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Kivlen, John A.; Struth, Bert W.; and Weiss, Clifford P., 3,641,190.

Struthers Energy Systems, Inc.: *See—*

Foster-Pegg, Richard W., 3,672,179.

Struthers Patent Corporation: *See—*

Ganiaris, Neophytos, 3,636,722.

Struthers Scientific and International Corporation: *See—*

Ganiaris, Neophytos, 3,656,315.

Ganiaris, Neophytos, 3,675,436.

Laurich, Stephen Anthony, 3,634,043.

Pike, John W., 3,672,009.

Reimus, Richard G.; and Saporito, Anthony, 3,632,353.

Svanoe, Hans, 3,644,102.

Struthers-Dunn, Inc.: *See—*

Bartlett, Peter G.; and Henry, Donald E., 3,651,477.

Bartlett, Peter G., 3,660,692.

Bartlett, Peter G., 3,663,950.

Struttman, Lloyd G.: *See—*

Montgomery, James R.; and Struttman, Lloyd G., 3,655,981.

Strutz, Carl, & Co., Inc.: *See—*

Rudolph, Rome R.; Strutz, Carl, Jr.; and Strutz, Frank C., 3,648,821.

Strutz, Carl, Jr.: *See—*

Rudolph, Rome R.; Strutz, Carl, Jr.; and Strutz, Frank C., 3,648,821.

Strutz, Frank C.: *See—*

Rudolph, Rome R.; Strutz, Carl, Jr.; and Strutz, Frank C., 3,648,821.

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Klenk, Ludwig; Strutzel, Hans; and Sobottka, Richard, 3,679,435.

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Aldridge, Gerald Richard; Ehrich, Felix Frederick; and Struve, William Scott, 3,674,814.

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Stryker Corporation: *See—*

Spence, Wayman R., 3,663,973.

Warfield, Wayne N.; and Eaton, Russell K., 3,678,934.

Stryker, Frederick J.: *See—*

Chapman, Daniel W.; Michaelsen, John D.; and Stryker, Frederick J., 3,666,665.

Stryker, Frederick J.; and Kornei, Otto, to United States of America, Army, *mesne*. Composition utilized in image development system. 3,663,243, 5-16-72, Cl. 106-24.500.

Stryker, Harvey I.: *See—*

Ross, John M.; and Stryker, Harvey I., 3,684,425.

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Stuart, Alexander: *See—*

Wood, Hamish C. S.; and Stuart, Alexander, 3,635,978.

Stuart, C. H., & Co., Inc.: *See—*

Strassel, Donald C., 3,688,520.

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Stuart, Douglas E.: *See—*

Lamphere, David A.; and Stuart, Douglas E., 3,635,084.

Stuart, Frank T. Clacker for attachment to archery bow. 3,669,059, 6-13-72, Cl. 116-67.00r.

Stuart, Gerald L.: *See—*

Paschal, Forrest A.; Stuart, Gerald L.; and Pascal, Forrest A., II., 3,700,274.

Thornton, La Verne; and Stuart, Gerald L., 3,666,093.

Stuart, James L.: *See—*

Woodham, George W.; and Stuart, James L., 3,632,254.

Woodham, George W.; and Stuart, James L., 3,655,850.

Stuart, James L., to Dart Industries, Inc. Die for impregnating and coating filamentary material. 3,694,131, 9-26-72, Cl. 425-461.000.

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Stuart, Robert L.: *See—*

Chisholm, Eugene H.; and Stuart, Robert L., 3,698,740.

Stuart, Robert W. Rotary drill assembly. 3,640,352, 2-8-72, Cl. 175-107.

Stuart, Ronald Stiles; and Wasson, Burton K., to Frosst, Charles E., & Co. 1-Morpholino phenoxy-3-alkylamino-2-propanols. 3,686,176, 8-22-72, Cl. 260-247.50r.

Stubbe, Gilbert Jules Ghislain: *See—*

Vanderlinden, Andre Jacques Emile; and Stubbe, Gilbert Jules Ghislain, 3,637,356.

Stubbe Maschinenfabrik GmbH: *See—*

Niklarz, Manfred, 3,692,449.

Stubbe Maschinenfabrik GmbH, *mesne*: *See—*

Wessel, Karl-Heinz; and Sabadello, Erich, 3,652,757.

Stubben, Joh's, OHG: *See—*

Stubben, Werner Johannes Karl, 3,641,739.

Stubben, Werner Johannes Karl, to Stubben, Joh's, OHG. Riding saddle and attachment means. 3,641,739, 2-15-72, Cl. 54-46.

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Stubbmann, Albert, to Kohner Bros., Inc. Toy with pseudo automobile controls and pseudo automobile windshield and windshield wiper mechanism. 3,659,375, 5-2-72, Cl. 46-1.

Stubbmann, Albert, to Kohner Bros., Inc. Escapement mechanism. 3,698,252, 10-17-72, Cl. 74-1.500.

Stubbs, Edward L.: *See—*

Loeffler, Robert W.; Loeffler, Walter W., Jr.; and Stubbs, Edward L., 3,689,311.

Stubbs, Robert C.: *See—*

Knieses, Duane V.; Chisholm, John Adrian; and Stubbs, Robert C., 3,686,930.

Stuber, Fred A.: *See—*

Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,644,289.

Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,652,504.

- Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,652,505.
 Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,657,199.
 Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,699,080.
 Stuber, Robert O. Process for sealing a top-opening carton. 3,662,515, 5-16-72, Cl. 53-39.
 Stubiger, Ernst: *See*—
 Frohlich, Alfons; Cappel, Marie-Luise; and Stubiger, Ernst, 3,685,474.
 Stubstad, James A.: *See*—
 Stemmer, August L.; Kahn, Paul; and Stubstad, James A., 3,683,422.
 Stuby, Kenneth P., to International Business Machines Corporation. Hour-glass shaped conductive connection through semiconductor structures. 3,648,131, 3-7-72, Cl. 317-235.
 Stucchi, Richard F.: *See*—
 Arciprete, Genio R.; Brokow, Adrian P.; Dumais, Richard L.; and Stucchi, Richard F., 3,662,362.
 Stuchlik, Rene, to Societe Rhodiacta. Spinneret unit and method for the spinning of chemical filaments. 3,634,576, 1-11-72, Cl. 264-176.
 Stuck, Carl G.; and Wilkes, Arthur L., to American Data Systems Inc. Data terminal system. 3,701,856, 10-31-72, Cl. 179-26.00a.
 Stuck, Klaus, to Ehrenreich, A., & Cie. Ball joint with cover plate for vehicles linkages. 3,677,586, 7-18-72, Cl. 287-87.000.
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 Stuckert, Paul E., to International Business Machines Corporation. Geometrically dependent distributed section transmission line attenuator. 3,634,789, 1-11-72, Cl. 333-81.
 Stuckey, Ronald L.: *See*—
 Digiroamo, Joseph; and Stuckey, Ronald L., 3,662,317.
 Stucki, Hans Ulrich: *See*—
 Hauser, Paul; Pfister, Walter; Stucki, Hans Ulrich; Teuwen, Heinz; Fuhring, Heinrich; and Sieber, Johannes Helmut, 3,665,734.
 Stucki, Peter: *See*—
 Closs, Felix H.; Seitzer, Dieter; and Stucki, Peter, 3,647,949.
 Stucki, Peter, to Ruti Machinery Works Ltd. Rotating disk arrangement on a wave-type loom. 3,705,606, 12-12-72, Cl. 139-12.000.
 Stucky, Duane L.; Donaldson, Richard G.; and Alexander, Allen D., to Industrial Nucleonics Corporation. Measuring system support. 3,668,397, 6-6-72, Cl. 250-83.00d.
 Studebaker, James B.: *See*—
 Choquette, Henry T.; Gobble, Lawrence T.; Studebaker, James B.; and Whittier, John D., 3,652,180.
 Studenick, David K.; Tyler, Allen L.; and Squillari, Walter, to United States of America, National Aeronautics and Space Administration. System for stabilizing torque between a balloon and gondola. 3,698,667, 10-17-72, Cl. 244-32.000.
 Students, John: *See*—
 Duffy, William; and Students, John, 3,683,497.
 Studer, Hans-Luzius; Petri, Eckart; Wurmstedt, Karl; and Haas, Jan Tomas, to Hamburger Flugzeugbau GmbH. Aircraft fan with out-flow deflectors. 3,704,828, 12-5-72, Cl. 239-265.190.
 Studer, Jean-Fred: *See*—
 Humbert, Jean; and Studer, Jean-Fred, 3,690,061.
 Studer, Philip A., to United States of America, National Aeronautics and Space Administration. Electric motive machine including magnetic bearing. 3,694,041, 9-26-72, Cl. 308-10.000.
 Studer, Victor Vernon: *See*—
 Gurkin, Martin; Sanderson, Gary Warner; and Studer, Victor Vernon, 3,669,680.
 Studiengesellschaft Kohle m.b.H.: *See*—
 Hafner, Klaus; and Muller-Westerhoff, Ulrich, 3,658,793.
 Wilke, Gunther; and Bogdanovic, Borislav, 3,644,558.
 Wilke, Gunther; Heimbach, Paul; and Delliehausen, Claus, 3,660,440.
 Studinka, Josef; and Gabler, Rudolf, to General Electric Company. Linear aromatic copolythioethers. 3,706,702, 12-19-72, Cl. 260-47.00r.
 Studley, David K., to Quantar Corporation. Microfilm camera. 3,677,159, 7-18-72, Cl. 95-31.0el.
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 Studnick, William R., to Western Electric Company, Incorporated. Method of and radiant energy transmissive member for reflow soldering. 3,657,508, 4-18-72, Cl. 219-85.
 Studtmann, George H.: *See*—
 Yarema, Raymond J.; and Studtmann, George H., 3,656,047.
 Studtmann, George H., to Borg-Warner Corporation. Static transfer switching system. 3,634,701, 1-11-72, Cl. 307-269.
 Studtmann, George H., to Borg-Warner Corporation. Thyristor with added gate and fast turn-off circuit. 3,638,042, 1-25-72, Cl. 307-252.
 Studzinski, James D., to Illini Building Systems, Inc. Insulated roof structure. 3,662,509, 5-16-72, Cl. 52-404.
 Stuebe, Thomas D.: *See*—
 Bartlett, William F.; Gifford, John C.; Lenk, Pedro A.; Oswald, William A.; Shaw, Frank Y.; Stuebe, Thomas D.; and Yost, Lloyd H., 3,662,349.
 Stuebe, Thomas D.; Lenk, Pedro A.; and Gifford, John C., to Stromberg-Carlson Corporation. Interrupt arrangement for data processing systems. 3,643,229, 2-15-72, Cl. 340-172.5.
 Stuebinger, Adolf; Mueller, Herbert; and Overwien, Hermann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of isoprene. 3,657,376, 4-18-72, Cl. 260-681.
 Stuemky, Robert E., to Gates Rubber Company, The. Continuously variable friction gear. 3,677,109, 7-18-72, Cl. 74-796.000.
 Stuetz, Dagobert E.: *See*—
 Gump, Klaus H.; and Stuetz, Dagobert E., 3,647,770.
 Stuetz, Dagobert E., to Celanese Corporation. Stabilization procedure and apparatus for polymeric fibrous materials. 3,632,092, 1-4-72, Cl. 263-3.
 Stuetz, Dagobert E.; Belohlav, Leo R.; and Reader, Arthur M., to Celanese Corporation. Continuous production of uniform graphite fibers. 3,634,035, 1-11-72, Cl. 23-209.1.
 Stuetz, Dagobert E., to Celanese Corporation. Direct production of graphite fibrous materials from preoxidized acrylic fibrous materials. 3,656,903, 4-18-72, Cl. 23-209.1.
 Stuetz, Dagobert E., to Celanese Corporation. Thermal stabilization of addition polymers. 3,671,488, 6-20-72, Cl. 260-45.70r.
 Stufflebeam, John F.: *See*—
 Boetto, Charles; Stufflebeam, John F.; and Artman, Noel G., 3,653,449.
 Stuhldreher, Paul R.: *See*—
 Appleby, Paul E.; Folden, Denver C.; and Stuhldreher, Paul R., 3,687,756.
 Stuhlmann, Hans; and Stuhlmann, Werner, to Battenfeld Maschinenfabriken GmbH., Firma, mesne. Apparatus for treatment of granulated goods. 3,678,597, 7-25-72, Cl. 34-48.000.
 Stuhlmann, Werner: *See*—
 Stuhlmann, Hans; and Stuhlmann, Werner, 3,678,597.
 Stuhmer, Werner: *See*—
 Milkowski, Wolfgang; Stuhmer, Werner; and Von Eickstedt, Klaus-Wolf, 3,641,125.
 Stull, Frank D.: *See*—
 Curran, Edward T.; and Stull, Frank D., 3,667,233.
 Stull, James T.: *See*—
 Hofmann, Gottfried; and Stull, James T., 3,670,804.
 Hofmann, Gottfried; and Stull, James T., 3,672,438.
 Stull, James T., to United States Steel Corporation. Detachable joint between continuous-casting starter bar and casting. 3,643,731, 2-22-72, Cl. 164-274.
 Stull, James T., to United States Steel Corporation. Guide mechanism for oscillating continuous casting mold. 3,662,813, 5-16-72, Cl. 164-273.
 Stull, John William: *See*—
 Chow, Ken-Tang; Stull, John William; and Bates, Charles Edward, 3,691,390.
 Stuller, Howard E.; and Baker, Jerry D., to Clark Equipment Company. Hydrostatic vehicle-4 wheel drive, 4 wheel steering. 3,666,034, 5-30-72, Cl. 180-6.48.
 Stults, Richard L.; and Curry, Robert W., to Hughes Aircraft Company. Surveillance and intrusion detecting system. 3,641,266, 2-8-72, Cl. 178-6.8.
 Stum, Linly R. Reel for fence wire, etc. 3,650,492, 3-21-72, Cl. 242-86.7.
 Stummeyer, Herbert: *See*—
 Sanne, Walter; Koenig, Karl-Heinz; Pommer, Ernst-Heinrich; and Stummeyer, Herbert, 3,686,399.
 Stump, Eugen; and Frankle, Gerhard, to Suddeutsche Kuehlerfabrik Julius Fr. Behr, Firma. Extraneous heater primarily for motor vehicles operated with liquid fuel, particularly gasoline. 3,648,681, 3-14-72, Cl. 126-110.
 Stump, Eugene C.: *See*—
 United States of America, National Aeronautics and Space Administration, 3,637,842.
 Stump, Eugene C., Jr.: *See*—
 Schuman, Pau D.; Stump, Eugene C., Jr.; and Rachow, Stephen, 3,654,273.
 United States of America, National Aeronautics and Space Administration, 3,671,497.
 Stump, Harry B.: *See*—
 Portz, William E.; and Stump, Harry B., 3,697,110.
 Stump, Harry C.; and Ford, Paul L., to Armour and Company. Process for preparing a sausage meat emulsion. 3,649,301, 3-14-72, Cl. 99-109.
 Stump, Harry C.; and Ford, Paul L., to Armour and Company. Preparation of sausage meat emulsion. 3,650,767, 3-21-72, Cl. 99-109.
 Stump, Paul W., to Clevepak Corporation. Tubular member. 3,648,920, 3-14-72, Cl. 229-49.
 Stump, Paul W.; and Bierstedt, Heinz J., to Clevepak Corporation. Method and apparatus for convolutely winding tubes of irregular shapes. 3,665,818, 5-30-72, Cl. 93-81.

- Stump, Walter: *See*—
 Crooks, Larry L.; and Stump, Walter, 3,658,570.
 Stumpe, Warren R.: *See*—
 Carder, Frank B.; Stumpe, Warren R.; Frassetto, Bruno S.; and Bell, Charles H., 3,655,075.
 Carder, Frank B.; Stumpe, Warren R.; Frassetto, Bruno S.; and Bell, Charles H., 3,655,076.
 Stumpf, Gunter. Cutting machine for fabrics and thermoplastics. 3,631,751, 1-4-72, Cl. 83-171.
 Stumpf, Gunter. Follower appliance for fabric folding machines. 3,674,253, 7-4-72, Cl. 270-31.000.
 Stumpf, Gunter. Apparatus for forming stacks of cloth webs which are cut to length. 3,701,299, 10-31-72, Cl. 83-72.000.
 Stumpf, Marvin D.: *See*—
 Talonn, Daniel A.; and Stumpf, Marvin D., 3,653,374.
 Stumpf, Marvin D.; and Koenig, Elmer A. Breech loaded syringe and method of breech loading same. 3,705,582, 12-12-72, Cl. 128-218.00p.
 Stumpf, Paul R., to Kimberly-Clark Corporation. Device for filling and sealing flexible containers. 3,638,253, 2-1-72, Cl. 5-337.
 Stumpf, Robert J.: *See*—
 Spiegelberg, Harry L.; Timmons, Terry K.; and Stumpf, Robert J., 3,689,353.
 Stumpf, Robert J., to Kimberly-Clark Corporation. Disposable diaper with improved liner material. 3,665,921, 5-30-72, Cl. 128-287.
 Stumpf, Robert J., to Kimberly-Clark Corporation. High bulk corrugated nonwoven fabric. 3,668,054, 6-6-72, Cl. 161-128.000.
 Stumpf, Robert J., to Kimberly-Clark Corporation. Method of manufacturing an elastic nonwoven fabric. 3,687,754, 8-29-72, Cl. 156-72.000.
 Stumpf, Robert J.; and Mattes, William J., to Kimberly-Clark Corporation. Composite high-loft material for blankets. 3,687,796, 8-29-72, Cl. 161-67.000.
 Stumpf, Robert J., to Kimberly-Clark Corporation. Separable clasp containing high-loft, non woven fabric. 3,694,867, 10-3-72, Cl. 24-204.000.
 Stumpf, Robert J., to Kimberly-Clark Corporation. Method of producing high-loft, nonwoven paneling material and covering. 3,705,063, 12-5-72, Cl. 156-72.000.
 Stumpf, Robert J., to Kimberly-Clark Corporation. Method of producing crushed high-loft, nonwoven material, including card and breaker frame blending. 3,705,065, 12-5-72, Cl. 156-72.000.
 Stumpf, Friedrich. Method and apparatus for adapting engine to stratified charge operation. 3,661,125, 5-9-72, Cl. 123-32.0st.
 Stumph, Stephen L.: *See*—
 Davis, Louis E.; Jensen, Billy M.; Larson, Floyd L.; Huck, Rainer F.; and Stumph, Stephen L., 3,670,386.
 Stumphauer, William C.: *See*—
 Hogstrom, Edwin F.; Stumphauer, William C.; and Nord, Eric T., 3,640,758.
 Rood, Alvin A.; Hogstrom, Edwin F.; and Stumphauer, William C., 3,702,107.
 Stumphauer, William C.; Hogstrom, Edwin F.; Nord, Eric T.; Schneider, Richard E.; and Rood, Alvin A., to Nordson Corporation. Method of spraying closed end cans. 3,697,313, 10-10-72, Cl. 117-96.000.
 Stumpp, Gerhard: *See*—
 Bosch, Walter; Schwartz, Reinhard; and Stumpp, Gerhard, 3,659,628.
 Stuner, John P. Mechanics magnetic glove. 3,636,568, 1-25-72, Cl. 2-161.
 Stunkard, Gerald A. Self centering pipe working machine. 3,650,514, 3-21-72, Cl. 266-23.
 Stupell Industries, Ltd., Inc.: *See*—
 Andreoli, Robert M.; and Stupell, Leo K., 3,688,426.
 Stupell, Leo K.: *See*—
 Andreoli, Robert M.; and Stupell, Leo K., 3,688,426.
 Sturba, Bruno: *See*—
 Grilli, Umberto; Sturba, Bruno; and Viviani, Artemio, 3,654,831.
 Sturdevant, Eugene J., to Holotron Corporation. Surface treatment of photopolymer film used for recording holograms. 3,667,946, 6-6-72, Cl. 96-35.100.
 Sturdivan, Rex E., to Zinsco Electrical Products. Electrical power outlet for trailer camp sites and the like. 3,691,288, 9-12-72, Cl. 174-38.000.
 Sturdy, Clifford, to Davy and United Engineering Company Limited. Ingot manipulator for a rolling mill. 3,675,789, 7-11-72, Cl. 214-1.0qg.
 Sturel, Bernard: *See*—
 Guillet, Hubert; Jacob, Louis; Mouchart, Jacques; and Sturel, Bernard, 3,663,087.
 Sturgeon, Charles Edwin: *See*—
 Gilbert, Daniel Eugene; Nelson, Larry Ralph; Sturgeon, Charles Edwin; and Thom, Robert Keith, 3,666,670.
 Sturgeon, Edward G., to Syncro Corporation. Brake controller. 3,704,042, 11-28-72, Cl. 303-3.000.
 Sturgeon, George; and Jackson, George, to British Iron and Steel Research Association, The. Apparatus for production of metal strip from metal powder. 3,674,389, 7-4-72, Cl. 425-79.000.
 Sturgeon, George M.; and Sykes, Geoffrey M. H., to British Iron and Steel Research Association, The. Rolling strip from powder. 3,632,244, 1-4-72, Cl. 425-79.
 Sturgeon, George Mc Hardy; and Sheffield, Jackson George, to British Iron and Steel Research Association, The. Production of metal strip from metal powder. 3,674,390, 7-4-72, Cl. 425-79.000.
 Sturgeon, Robert G., to Barnes-Hind Pharmaceuticals, Inc., mesne. Contact lens case. 3,695,280, 10-3-72, Cl. 134-166.00r.
 Sturgeon, Ronald F. Multiple-axial-pin tumbler lock. 3,681,955, 8-8-72, Cl. 70-363.000.
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 Sturges Company, The: *See*—
 Weslock, Ernest A., 3,669,491.
 Sturges, Hiram A. Single cylinder hydraulic stabilizer for steering. 3,658,027, 4-25-72, Cl. 115-18.
 Sturges, James R.: *See*—
 McMurray, Mitchell; Plouzek, Eugene A.; and Sturges, James R., 3,674,279.
 Sturges, Nigel; and Nutton, Leonard Charles, to Sewprima Limited. Needle positioning attachment for a sewing machine. 3,636,901, 1-25-72, Cl. 112-219.
 Sturgess, Geoffrey John; Hoffman, Jacob Sherman; Vdoviak, John William; and Hirschkrone, Robert, to General Electric Company. Air blast fuel atomizer. 3,703,259, 11-21-72, Cl. 239-400.000.
 Sturgis, Clifford M. Self-contained steam heating unit. 3,640,456, 2-8-72, Cl. 237-7.
 Sturgis, David H.: *See*—
 Ardary, Zane L.; and Sturgis, David H., 3,702,279.
 Sturhan, Klaus, to Gebr. Isringhausen. Vehicle seat construction. 3,645,488, 2-29-72, Cl. 148-399.
 Sturhan, Klaus, to Gebr. Isringhausen, Firma. Seat construction. 3,679,166, 7-25-72, Cl. 248-399.000.
 Sturlason, Leif Viggo: *See*—
 Petersen, Jorgen Hartvig; and Sturlason, Leif Viggo, 3,669,419.
 Sturley, Richard A., to Carrier Corporation. Bonding of tube joints. 3,636,186, 1-18-72, Cl. 264-135.
 Sturm, Bernard J.: *See*—
 Butler, Charles T.; and Sturm, Bernard J., 3,634,033.
 Sturm, Bernard J.; and Parkinson, William W., to United States of America, Atomic Energy Commission. Radiation-resistant plastic insulators. 3,663,504, 5-16-72, Cl. 260-45.70p.
 Sturm, Carl-Heinz; and Weber, Willi, to Aktiengesellschaft Brown, Boveri & Cie. Heat tube. 3,688,838, 9-5-72, Cl. 165-96.000.
 Sturm, Edward L., to Eastman Kodak Company. Control, signal and actuating mechanism for use with photoflash lamp units having pre-energized strikers. 3,677,157, 7-18-72, Cl. 95-11.50r.
 Sturm, Elmar; and Vogel, Christian, to Ciba-Geigy Corporation. Thiocarboxylic acid esters of 8-azabicyclo[3.2.1] octanes and 9-azabicyclo[3.3.1] nonanes. 3,661,916, 5-9-72, Cl. 260-292.
 Sturm, Elmar; and Vogel, Christian. N-carbonyl derivatives of azabicyclooctanes. 3,705,165, 12-5-72, Cl. 260-293.540.
 Sturm, Hans Juergen: *See*—
 Armbrust, Herbert; Sturm, Hans Juergen; Engelbach, Heinz; Wistuba, Hermann; Stoessel, Armin; and Krabetz, Richard, 3,699,134.
 Schecker, Hans-Georg; Koehler, Waldemar; Armbrust, Herbert; Sturm, Hans Juergen; and Kilpper, Gerhard, 3,686,339.
 Sturm, Hans Juergen; Mayer, Kurt; Kilpper, Gerhard; and Armbrust, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Disperse monoazo dyes of the 5-aminopyrazole series. 3,639,387, 2-1-72, Cl. 260-163.
 Sturm, Hans Juergen, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of cyanoacetaldehyde. 3,647,854, 3-7-72, Cl. 260-465.1.
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 Sturm, Hans-Juergen; and Mayer, Kurt, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Disperse water-insoluble benzeneazo-3-acetyl- or 3-propionyl-aninodiphenylamine dyestuffs. 3,640,996, 2-8-72, Cl. 260-207.1.
 Sturm, Rolland G.: *See*—

Rodgers, Edward J.; and Sturm, Roland G., 3,695,255.
 Sturm, Ruger & Co.: See—
 Sefried, Harry H., II, 3,683,536.
 Sturm, Ruger & Co., Inc.: See—
 Ruger, William B., 3,654,720.
 Sefried, Harry H., II, 3,668,800.
 Sefried, Harry H., II, 3,685,193.
 Sturman, Oded E.: See—
 Sturman, Oded E., 3,683,239.
 Sturman, Oded E., to Sturman, Oded E. Self-latching solenoid actuator. 3,683,239, 8-8-72, Cl. 317-150.000.
 Sturmer, Hans, to Bosch, Robert, G.m.b.H. Sealing device for pistons of rotary piston machines. 3,655,304, 4-11-72, Cl. 418-124.
 Sturmer, Hans, to Bosch, Robert, G.m.b.H. Transmission arrangement with basic transmission mechanism. 3,691,861, 9-19-72, Cl. 74-330.000.
 Sturmer, Hans, to Bosch, Robert, G.m.b.H. Fuel injection valve. 3,702,683, 11-14-72, Cl. 239-585.000.
 Sturm, Giuseppe; and Maran, Mario, to F.A.V. S.r.L. Automobile tester. 3,690,165, 9-12-72, Cl. 73-117.000.
 Sturt, Alan Charles, to BP Chemicals Limited. Polymerisation process. 3,663,655, 5-16-72, Cl. 260-875.000.
 Sturt, Alan Charles, to BP Chemicals Limited. Emulsion-suspension graft copolymerization process. 3,663,657, 5-16-72, Cl. 260-878.
 Sturtevant Engineering Co. Ltd.: See—
 Boundy, James R., 3,633,594.
 Sturwald, Robert J.: See—
 Boylan, Jack B.; and Sturwald, Robert J., 3,679,617.
 Sharkey, Hubert Joseph; and Sturwald, Robert J., 3,700,618.
 Sturzing, Oskar, to Anstalt Europaische Handelsgesellschaft. Synchronizing devices. 3,702,900, 11-14-72, Cl. 178-53.100.
 Sturzing, Oskar Edwin. System for ascertaining the accumulation of pulverulent, granular or flaky bulk goods. 3,647,301, 3-7-72, Cl. 356-103.
 Stutz, Herbert D. Camper anchoring device. 3,649,065, 3-14-72, Cl. 296-23.
 Stutz, Paul: See—
 Dietrich, Anton; Wagner, Alois; Stutz, Paul; and Obster, Martin, 3,633,243.
 Stutz, Peter: See—
 Stadler, Paul; Hauth, Hartmut; Wersin, Gernot; Guttmann, Stephan; Hofmann, Albert; Stutz, Peter; and Willems, Hans, 3,652,569.
 Stutzman, Guy R.; and Comstock, Allan J., to International Telephone and Telegraph Corporation. Electron multiplier having dynode modules. 3,684,910, 8-15-72, Cl. 313-105.000.
 Stuyvenber, Franciscus D., to Hydraudyne N.V. Hydraulic cylinder. 3,683,754, 8-15-72, Cl. 92-165.000.
 Stylon Corporation: See—
 Jackson, Robert C., 3,658,621.
 Styner & Bienz AG: See—
 Glaus, Heinrich, 3,631,596.
 Styner, Rudolf, to Strapex A.G. Device for stretching case ribbons of plastic material. 3,662,790, 5-16-72, Cl. 140-123.6.
 Su, Aaron Chung Liong, to Du Pont de Nemours, E. I., and Company. Rhodium based catalysts for the synthesis of 1,4-dienes. 3,640,898, 2-8-72, Cl. 252-429.
 Su, Cheh-Jen, to Continental Can Company, Inc. Method of preparing laminates of fibrous cellulosic webs using ultrasonic energy. 3,652,354, 3-28-72, Cl. 156-73.
 Su, George Chung-Chi, to Du Pont de Nemours, E. I., and Company. Polyimides and copolyimides from aromatic diamines and alicyclic dianhydrides. 3,639,343, 2-1-72, Cl. 260-47.
 Su, Tsung-Yuan: See—
 Hughes, James K.; and Su, Tsung-Yuan, 3,639,505.
 Sub' Terrain Irrigation Co.: See—
 Rondas, Ivan V.; and Christy, Mark H., 3,693,888.
 Sub-Marine Systems Incorporated: See—
 Cowans, Kenneth W., 3,699,775.
 Suba, Andras: See—
 Bessko, Dezso; Gallai, Gyula; Farnady, Pal; Jozsa, Geza; Kovy, Margit; Teller, Laszlo; Suba, Andras; and Tisza, Sandor, 3,652,166.
 Subbaratnam, Anangur V.; and Powell, Eugene L. Alkaline buffer for granular starch modification reaction. 3,687,728, 8-29-72, Cl. 127-70.000.
 Subbuteo Sports Games Limited: See—
 Samson, Julie Marie, 3,674,275.
 Subcom Inc.: See—
 Cohen, Paul, 3,643,615.
 Subjack, William J.: See—
 Grabner, Roy W.; Zimmermann, Morris; Subjack, William J.; and Veber, Daniel F., 3,664,926.
 Subramanian, Mahadevan, to Bell Telephone Laboratories, Incorporated. Apparatus for use in measuring phase dispersion produced by apparatus or a system. 3,706,931, 12-19-72, Cl. 325-67.000.
 Subrizi, Angelo: See—
 de Sandre, Giovanni; and Subrizi, Angelo, 3,636,523.
 Subsea Equipment Associates Limited: See—

Brown, Walter, 3,696,864.
 Subsea Equipment Associates Limited, mesne: See—
 Dobler, Christian D.; and Lilly, Herbert J., Jr., 3,677,310.
 Dobler, Christian D.; and Lilly, Herbert J., Jr., 3,698,433.
 Morgan, George W., 3,677,302.
 Morgan, George W., 3,686,875.
 Morgan, George W., 3,698,348.
 Morgan, George W., 3,701,551.
 Subsea Products, Inc.: See—
 Flynn, Joseph E., 3,666,964.
 Subterranean Tools, Inc.: See—
 Goodfellow, Robert D., 3,707,315.
 Subterranean Tools, Inc., mesne: See—
 Winberg, Douglas F., 3,645,591.
 Suburban Metal Industries Limited: See—
 Brucker, Henry J., 3,680,711.
 Sucher, Josef; and Segieth, Oswald, to Varta Aktiengesellschaft. Apparatus for inserting electrode rods into pockets of double-web mats for storage batteries. 3,665,575, 5-30-72, Cl. 29-204.
 Suchla, John R. Shelter feeder. 3,645,235, 2-29-72, Cl. 119-51.
 Suchomel, Michael; Tipton, William; and Burnett, James H., to General Signal Corporation. Method and apparatus for detecting aerosols. 3,665,441, 5-23-72, Cl. 340-237.
 Suchowski, Bernard, to Als Development Corporation. Doll. 3,704,542, 12-5-72, Cl. 46-135.00r.
 Suchowsky, Giselbert Karl: See—
 Bernardi, Luigi; Coda, Severina; Suchowsky, Giselbert Karl; and Pegrassi, Lorenzo, 3,658,803.
 Bernardi, Luigi; Bonsignori, Alberto; Coda, Severina; and Suchowsky, Giselbert Karl, 3,660,322.
 Suchsland, Helmut: See—
 Koberstein, Edgar; Lussling, Theodor; Noll, Ewald; Suchsland, Helmut; and Weigert, Wolfgang, 3,639,269.
 Suchy, Jan S. Electromagnetically propelled stirrer and shaker. 3,693,941, 9-26-72, Cl. 259-1.000.
 Suchy, Milos: See—
 Chodnekar, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; Schwieter, Ulrich; and Suchy, Milos, 3,686,222.
 Suck, Catherine: See—
 Bret, Pierre; and Suck, Catherine, 3,684,195.
 Suck, Hans: See—
 Kochalski, Horst; Rudzinat, Willy; David, Harry; Erdmann, Otto; Rode, Ludwig; and Suck, Hans, 3,662,880.
 Suckfull, Fritz: See—
 Nickel, Horst; and Suckfull, Fritz, 3,655,740.
 Suckow, Theodore K. Spring bar assembly for trailer hitches. 3,700,261, 10-24-72, Cl. 280-406.00a.
 Suckow, Theodore K. Spring bar trailer hitch assembly. 3,700,262, 10-24-72, Cl. 280-406.00a.
 SuCrest Corporation: See—
 Broeg, Charles; Monti, Anthony; and Troy, John P., 3,639,169.
 Monti, Anthony; Troy, John P.; and Broeg, Charles B., 3,639,168.
 Sud-Atlas-Werke G.m.b.H.: See—
 Engert, Binz-Dieter, 3,684,212.
 Markart, Ernst, 3,696,775.
 Tupaj, Manfred Paul; and Engert, Heinz, 3,680,871.
 Sud-Aviation Societe Nationale de Constructions Aeronautiques: See—
 Denis, Andre Maxime Philippe; and Ripart, Guy Marie, 3,648,157.
 Violleau, Andre; and Coffy, Rene Louis, 3,653,174.
 Sud-Chemie Aktiengesellschaft: See—
 Lienau, Rainer; and Hofmann, Friedrich, 3,658,483.
 Suda, Hideaki: See—
 Koga, Koichi; Suda, Hideaki; and Akamatsu, Takashi, 3,691,203.
 Suda, Humio, to Toyoda Koki Kabushiki Kaisha. Method for producing cutting tools. 3,648,548, 3-14-72, Cl. 76-101.
 Suda, Kataro. Toy robots. 3,659,379, 5-2-72, Cl. 46-247.
 Suda, Katsuhide, to Xerox Corporation. Transfer sheet peeling device for xerographic apparatus. 3,704,881, 12-5-72, Cl. 271-51.000.
 Suda, Naoki: See—
 Yoshioka, Tsunehiko; Satou, Hisashi; and Suda, Naoki, 3,660,124.
 Suda, Seiji: See—
 Kasama, Ryoji; and Suda, Seiji, 3,659,565.
 Suda, Seiji; and Ishizaki, Masayuki, to Hitachi, Ltd. Fuel injection controlling system for internal combustion engine. 3,636,931, 1-25-72, Cl. 123-32.
 Suda, Seiji, to Hitachi, Ltd. Control device for fuel supply in internal combustion engines. 3,682,144, 8-8-72, Cl. 123-32.0ea.
 Suda, Tatsuo: See—
 De Luca, Hector F.; and Suda, Tatsuo, 3,702,810.
 Suda, Tetuo: See—
 Yoshida, Shoushi; Iwama, Atsuaki; Okada, Takashi; and Suda, Tetuo, 3,659,973.
 Yoshida, Shoushi; Iwama, Atsuaki; Odaka, Takashi; and Suda, Tetuo, 3,685,929.

Yoshida, Shoushi; Iwama, Atsuaki; Okada, Takashi; and Suda, Tetuo, 3,690,795.
 Suda, Toshi; and Kobayashi, Hisanori, to Nippondenso Kabushiki Kaisha and Toyota Jidosha Kogyo Kabushiki Kaisha. Fuel supply device for internal combustion engines. 3,680,537, 8-1-72, Cl. 123-140.0mc.
 Sudan, Jacqueline: See—
 Gobron, Georges; and Motillon, Marcel, 3,652,458.
 Sudar, Seymour: See—
 Wetch, Joseph R.; Sudar, Seymour; and Bienvenue, Louis L., 3,647,394.
 Suddeutsche Kalkstickstoff-Werke AG: See—
 Aignesberger, Alois; and Michaud, Horst, 3,661,829.
 Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft: See—
 Kaess, Franz, 3,649,253.
 Suddeutsche Kuhlerrfabrik Julius Fr. Behr, Firma: See—
 Illg, Manfred, 3,638,718.
 Stump, Eugen; and Frankle, Gerhard, 3,648,681.
 Sudduth, William B., to Flex Key Corporation. Keyboard, digital coding, switch for digital logic, and low power detector switches. 3,699,294, 10-17-72, Cl. 200-166.00c.
 Suder, Jack K.: See—
 Lucas, James M.; Suder, Jack K.; and Vander Wall, Eugene M., 3,696,616.
 Sudmeier, Gustav H. Automotive air conditioning system utilizing separate condensers. 3,662,563, 5-16-72, Cl. 62-243.
 Sudnick, Dennis J.: See—
 Davis, Dennis J.; Sudnick, Dennis J.; Juhasz, John E.; and Kurich, Sham, 3,677,609.
 Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tupitsin, Konstantin Konstantinovich; Klimashko, Vladimir Vasilievich; and Plavskikh, Vladimir Dmitrievich. Pneumatically operated impact-action self-propelled-reversible mechanism. 3,651,874, 3-28-72, Cl. 173-91.
 Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tupitsin, Konstantin Konstantinovich; and Plavskikh, Vladimir Dmitrievich, to Institut Gornogo Dela Sibirskogo otdelenia Akademii. Reversible percussion device for making holes in ground by compacting the latter. 3,705,633, 12-12-72, Cl. 173-91.000.
 Sudo, Kengo: See—
 Hashimoto, Hiroshi; Satou, Takehide; Sudo, Kengo; and Ono, Naoya, 3,694,092.
 Sudo, Shunji: See—
 Nikaido, Akira; Onda, Mitsuo; Nakajima, Fumio; Machida, Takayasu; and Sudo, Shunji, 3,668,488.
 Sudo, Takao: See—
 Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar, Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.
 Sudo, Tsuneta: See—
 Mizushima, Yoshiko; and Sudo, Tsuneta, 3,657,616.
 Sudow, Masanobu: See—
 Tomiyama, Takeshi; and Sudow, Masanobu, 3,653,352.
 Sudrabin, Leon P.; and Neugold, Harry, Jr., to Pennwalt Corporation. Electrical shield for cathodic protection systems. 3,691,040, 9-12-72, Cl. 204-147.000.
 Sudstrand Corporation: See—
 Walsh, Richard E., 3,652,176.
 Sueda, Hideo; Yamawaki, Takeshi; Kida, Keiichi; Hayashi, Masahiro; Endo, Kazuo; and Kaneko, Mamoru, to Mitsubishi Kasei Kogyo Kabushiki Kaisha; a/t/a Mitsubishi Chemical Industries Limited. Method of manufacturing sheets of polymerized resinous material. 3,639,553, 2-1-72, Cl. 264-90.
 Suehiro Sen-I Kogyo Kabushiki Kaisha: See—
 Endo, Hiroshi; Tokoyoda, Kazuo; Fujiyu, Takemi; Kayasuga, Yasuaki; and Kunii, Tokio, 3,690,911.
 Suekane, Mikio; and Satake, Chikako, to CPC International Inc. Method of treating yeast. 3,681,195, 8-1-72, Cl. 195-4.000.
 Suellentrop, Allan A.: See—
 Suellentrop, Fred F., Jr.; and Suellentrop, Allan A., 3,651,938.
 Suellentrop, Fred F., Jr.; and Suellentrop, Allan A., to Lemay Machine Company. Automatic article segregation. 3,651,938, 3-28-72, Cl. 209-78.
 Suenaga, Kazuo: See—
 Kato, Tetsuji; Izumi, Mikio; Hayashibara, Yuji; and Suenaga, Kazuo, 3,655,824.
 Suenaga, Masanobu; Machii, Tetsuo; Sawano, Takahiro; Kobayashi, Takehiko; Dengo, Tadao; and Nakai, Tetsuzo, to Tokyo Shibaura Electric Co., Ltd. Laminated semiconductor structure. 3,648,121, 3-7-72, Cl. 317-234.
 Suenaga, Yasushi: See—
 Inoue, Hiroharu; Fujimoto, Kenichi; and Suenaga, Yasushi, 3,636,179.
 Sues, Lawrence B., to United States of America, Air Force. Spectrum analyzer. 3,641,515, 2-8-72, Cl. 340-173.
 Suess, Rudolf: See—
 Lindenmann, Adolf; and Suess, Rudolf, 3,681,361.
 Suetake, Kunihiko; and Naito, Yoshiyuki. Electric source filter. 3,688,224, 8-29-72, Cl. 333-73.00c.
 Sueyoshi, Hiromu: See—
 Miyazaki, Toshio; Omura, Etouzou; Katakabe, Kyoku; Makita, Minoru; Iwase, Kenji; Tsutsumi, Hideo; Yotsumoto, Takashi; Ikeda, Fumiaki; Takashima, Yoshiro; Sueyoshi, Hiromu; and Maesaka, Tomio, 3,689,620.
 Sueyoshi, Koji: See—
 Inoi, Takeshi; Sueyoshi, Koji; Fujii, Masahiro; Shoji, Kenjiro; Shudo, Akio; Yoshizaki, Takayoshi; and Yutaka, Matsuo, 3,703,518.
 Sueyoshi, Tadahiro: See—
 Okamoto, Takehiko; Inoue, Masakazu; Kishimoto, Akihiko; and Sueyoshi, Tadahiro, 3,707,585.
 Sueyoshi, Tohru: See—
 Nakazawa, Yoshiyuki; Sueyoshi, Tohru; Sato, Akira; and Nakamura, Yashiharu, 3,706,570.
 Shiba, Keisuke; Sueyoshi, Tohru; Akira, Sato; Kubodera, Seiti; and Tsubota, Motohiko, 3,706,566.
 Suffern, Donald Bruce Borders; Osterberg, Arnold Curtis; and Wallo, Kenneth George, to American Cyanamid Company. Crassin acetate used as an analgesic. 3,706,835, 12-19-72, Cl. 424-279.000.
 Suga, Hiroyoshi: See—
 Fujita, Hideo; Ishitobi, Masami; Suga, Hiroyoshi; Ishiwari, Keishiro; Yotsui, Yoshikazu; Yamashita, Tadao; Edamitsu, Masayuki; and Moriaki, Shokichi, 3,701,720.
 Suga, Nagaichi. Apparatus for exposing specimens to maximum amounts of sunlight. 3,633,019, 1-4-72, Cl. 235-186.
 Suga, Shigeru. Flammability testing device. 3,662,586, 5-16-72, Cl. 73-15.00r.
 Suga, Tsuneo: See—
 Sato, Shui; Sakazume, Kaichiro; and Suga, Tsuneo, 3,702,251.
 Sugahara, Eisuke, to Nippon Piston Ring Co., Ltd. Oil ring of one piece type. 3,650,537, 3-21-72, Cl. 277-160.
 Sugahara, Eisuke, to Nippon Piston Ring Kabushiki Kaisha. Torque transmission arrangement. 3,664,153, 5-23-72, Cl. 64-31.000.
 Sugahara, Eisuke, to Nippon Piston Ring Co., Ltd. Oil stripping piston ring. 3,677,558, 7-18-72, Cl. 277-138.000.
 Sugahara, Eisuke, to Nippon Piston Ring Co., Ltd. Method of producing one-piece channel shaped piston ring. 3,683,477, 8-15-72, Cl. 29-156.000.
 Sugahara, Takashi; Suzuki, Minoru; Fukunaga, Tadayuki; and Fukushima, Shozo, to Kawasaki Jukogyo Kabushiki Kaisha. Oil pressure controlling device for big inertial load. 3,640,069, 2-8-72, Cl. 60-105.
 Sugahara, Yoshimasa: See—
 Mukai, Hisakazu; Kindo, Hideaki; Sugahara, Yoshimasa; and Yamagata, Akinori, 3,648,064.
 Sugahara, Yujiro; Naito, Hiroyuki; Takai, Kiyoshi; and Usui, Kouichi, to Mizusawa Kagaku Kogyo Kabushiki Kaisha. Method of treating a titanium or zirconium salt of a phosphorus oxyacid. 3,650,681, 3-21-72, Cl. 23-21.
 Sugalski, Raymond K.: See—
 Lehnen, Robert J.; and Sugalski, Raymond K., 3,684,583.
 Sugano, Izuru: See—
 Akashi, Tsuneko; Sugano, Izuru; Okuda, Taneaki; Onodo, Yoshihiro; and Tsuji, Toshiro, 3,655,841.
 Sugano, Izuru; Akashi, Tsuneko; Matsubara, Tetsujin; Kenmoku, Yoshihiro; and Okuda, Taneaki, to Nippon Electric Company, Limited. Oxide magnetic materials. 3,652,416, 3-28-72, Cl. 252-62.59.
 Sugano, Kumakichi. Incinerator. 3,643,633, 2-22-72, Cl. 122-1.2.
 Sugano, Seiroku; Arai, Tomio; Hayami, Seinoshin; Watanabe, Sadao; Fujishiro, Shigeru; and Ono, Takeo, to Chiyoda Kako Kensetsu Kabushiki Kaisha and Denki Kagaku Kogyo Kabushiki Kaisha. Process for separating 2-chloro-1,3-butadiene by extractive distillation with dimethylsulfoxide. 3,689,372, 9-5-72, Cl. 203-53.000.
 Sugano, Shigeaki; and Uesugi, Kyozo, to Minolta Camera Co., Ltd. Focusing mechanism for catadioptric objective. 3,671,109, 6-20-72, Cl. 350-299.000.
 Sugano, Shigeru: See—
 Nitta, Yoshihiro; Ikeda, Yoshiaki; Furue, Toshiyuki; Shioya, Akitoshi; Sugano, Shigeru; and Shiraki, Yasuyuki, 3,663,548.
 Sugar Beet Products Company: See—
 Beach, Willis J., 3,645,904.
 Sugar, Joseph: See—
 Anhalt, Jonn W.; Arnold, Bruce K.; and Sugar, Joseph, 3,638,165.
 Sugardale Foods, Inc.: See—
 Dearth, Robert L.; and Lindle, Rodger M., 3,692,539.
 Sugarman, Meyer L.; and Jaeger, Joseph H. Compact liquid toner apparatus with straight through feed. 3,643,628, 2-22-72, Cl. 118-637.
 Sugarman, Meyer L.; and Wilkie, Thomas A., to Opto/Graphics, Inc. Production of black and white prints from color transparencies by electrostatic process. 3,703,370, 11-21-72, Cl. 96-1.01y.
 Sugawara, Tsutomu: See—
 Nagata, Wataru; Terasawa, Tadao; and Sugawara, Tsutomu, 3,683,091.

Sugawara, Kastuyuki: See—
 Okuda, Kensuke; Yoshida, Tadaaki; and Sugawara, Kastuyuki, 3,682,595.

Sugimoto, Hachiro: See—
 Kohda, Akihiko; Kohno, Shigeharu; Takahashi, Tohru; and Sugimoto, Hachiro, 3,682,595.

Takayanagi, Molowo; Sugiura, Shotaro; Matsuura, Tetsuro;

Skorcz, Joseph A.; Sub, John T.; and Judd, Claude I.

Sugawara, Kastuyuki: *See*—
Okuda, Kensuke; Yoshida, Tadaaki; and Sugawara, Kastuyuki, 3,682,595.

Sugawara, Katsuyuki: *See*—
Okuda, Kensuke; Yoshida, Tadaaki; and Sugawara, Katsuyuki, 3,694,862.

Sugawara, Ken F., to Corning Glass Works. Liquid separatory apparatus. 3,656,912, 4-18-72, Cl. 23-259.

Sugawara, Shinichi: *See*—
Kobayashi, Goro; Sugawara, Shinichi; and Nagawa, Masatoshi, 3,691,199.

Sugawara, Tsunenori; Shibuya, Teiji; Miyakado, Satoru; and Mase, Jiro, to Nippon Kokan Kabushiki Kaisha. Charging apparatus for the furnace. 3,695,466, 10-3-72, Cl. 214-37,000.

Sugaya, Hiroshi; and Nasu, Takuya, to Matsushita Electric Industrial Co., Ltd. Magnetic recording and reproducing apparatus of cassette type. 3,674,942, 7-4-72, Cl. 179-100,22.

Sugaya, Hiroshi; and Kanai, Kenji, to Matsushita Electric Industrial Co., Ltd. Scanning magnetic head. 3,696,216, 10-3-72, Cl. 179-100,20c.

Sugaya, Hiroshi; Kobayashi, Fukashi; and Ono, Mitsuaki, to Matsushita Electric Industrial Co., Ltd. Method and apparatus for duplicating a magnetic tape. 3,707,608, 12-26-72, Cl. 179-100,20e.

Sugaya, Yoshiharu: *See*—
Ohfuka, Toshio; Ichikawa, Yasushi; and Sugaya, Yoshiharu, 3,651,013.

Sugden, David Burnett: *See*—
Watson, Frank George; and Sugden, David Burnett, 3,640,077.

Sugden, David Burnett: *See*—
Dixon, Kenneth Raymond; and Sugden, David Burnett, 3,637,333.

Suggitt, Robert M.: *See*—
Estes, John H.; Kravitz, Stanley; and Suggitt, Robert M., 3,702,874.

Kravitz, Stanley; Estes, John H.; and Suggitt, Robert M., 3,692,694.

Kravitz, Stanley; Estes, John H.; and Suggitt, Robert M., 3,692,696.

Kravitz, Stanley; Estes, John H.; and Suggitt, Robert M., 3,692,697.

Suggitt, Robert M.; Estes, John H.; and Kravitz, Stanley, to Texaco Inc. Method of preparing an alumina catalyst containing chlorine and isomerization process utilizing the same. 3,646,152, 2-29-72, Cl. 260-683,68.

Suggitt, Robert M.; and Estes, John H., to Texaco Inc. Activation of hydrocarbon catalyst using solution. 3,663,454, 5-16-72, Cl. 252-442.

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Ueda, Haruo; Sugi, Masanao; and Chayamichi, Hiroshi, 3,677,492.

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Nakahata, Masatake; and Sugi, Tatsuo, 3,698,353.

Sugihara, Hirosada: *See*—
Kawamatsu, Yutaka; Sugihara, Hirosada; and Morimoto, Hiroshi, 3,652,603.

Kawamatsu, Yutaka; Sugihara, Hirosada; and Morimoto, Hiroshi, 3,657,287.

Sugihara, John Y.: *See*—
Murakami, Keisuke, 3,656,042.

Sugihara, Jun: *See*—
Tanizake, Mikio; Omori, Yasuo; and Sugihara, Jun, 3,637,506.

Sugihara, Kanji: *See*—
Hozumi, Shiro; Hirai, Kenichi; Tanigawa, Yoshiyuki; Yoshida, Katuro; and Sugihara, Kanji, 3,673,666.

Sato, Kunio; Sugihara, Kanji; Wakabayashi, Takashi; and Ishida, Tomio, 3,676,925.

Wakabayashi, Takashi; Hozumi, Shiro; and Sugihara, Kanji, 3,695,870.

Sugihara, Kunihiko: *See*—
Nakajima, Yasuo; Hayashi, Yoshimasa; and Sugihara, Kunihiko, 3,633,554.

Nakajima, Yasuo; Hayashi, Yoshimasa; and Sugihara, Kunihiko, 3,673,993.

Nakajima, Yasuo; Hayashi, Yoshimasa; Yoshimura, Toru; Sugihara, Kunihiko; and Nagumo, Shin-ichi, 3,680,318.

Sugii, Kenji: *See*—
Okazaki, Kaoru; Shimokawa, Yoichi; Nakagawa, Asaharu; and Sugii, Kenji, 3,632,666.

Sugimoto, Hachiro: *See*—
Kohda, Akihide; Kohno, Shigeharu; Takahashi, Tohru; and Sugimoto, Hachiro, 3,704,244.

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Kurimoto, Masashi; Sugimoto, Kaname; and Hirao, Mamoru, 3,677,896.

Mitsuhashi, Masakazu; Hirao, Mamoru; and Sugimoto, Kaname, 3,705,039.

Okada, Shigetaka; Tsuyama, Naoto; Kurimoto, Masahi; and Sugimoto, Kaname, 3,703,440.

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Sugimoto, Kinji: *See*—
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Sugimoto, Nobuo, to Kishiseizo Kabushiki Kaisha. Goods transfer device for motor wagon and trailer van based on vibratory principle. 3,648,862, 3-14-72, Cl. 214-83,3.

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Kaishita, Yoshiaki; and Sugimoto, Shigeo, 3,679,140.

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Sugino, Osakazu: *See*—
Ishihara, Masao; Sugino, Osakazu; Nishina, Yoshio; Kohno, Isao; and Satoh, Yuzuru, 3,640,721.

Sato, Shui; Ishihara, Masao; Sakamoto, Eiichi; Shono, Masayuki; and Sugino, Osakazu, 3,663,230.

Ushiyama, Rintaro; Sugino, Osakazu; Sato, Shui; Sakamoto, Eiichi; Yamada, Hiroshi; and Kikuchi, Shoji, 3,706,563.

Sugio, Akitoshi: *See*—
Yoshikawa, Yoshio; Kondo, Hiroshi; Sugio, Akitoshi; and Kato, Tomotake, 3,664,035.

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Suzuki, Shigeru; Sugita, Keiji; Koizumi, Yutaka; and Kanno, Tadaaki, 3,651,727.

Suzuki, Shigeru; Sugita, Keiji; and Nagahara, Yasumori, 3,672,762.

Sugita, Sadao: *See*—
Koda, Ken'ichi; Kikuchi, Shoji; Wada, Tsuneo; Kuwabara, Yoshimi; Horikoshi, Akira; Tanimura, Kensaku; and Sugita, Sadao, 3,704,128.

Sato, Shui; Nakajima, Tomio; Nakano, Masashi; and Sugita, Sadao, 3,694,211.

Sato, Shui; Sugita, Sadao; Nakajima, Tomio; and Kasai, Keiji, 3,698,907.

Sugita, Tohru: *See*—
Kobayashi, Tetsuji; Takayanagi, Seiichi; and Sugita, Tohru, 3,669,095.

Sugita, Toru: *See*—
Kobayashi, Tetsuji; Sasaki, Tetsuo; Takayanagi, Seiichi; and Sugita, Toru, 3,665,916.

Sugita, Yutaka: *See*—
Nishida, Hideko; Yamaguchi, Kunihiko; Kumasaka, Noriyuki; Sugita, Yutaka; and Fujiwara, Hideo, 3,673,581.

Sugiura, Akio: *See*—
Arai, Hiroshi; Nakamura, Akira; Okamoto, Atutosi; Okumura, Shunji; Suzuki, Motoyoshi; and Sugiura, Akio, 3,690,735.

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Imanishi, Masakazu; Kondou, Kenzi; and Sugiura, Ituo, 3,678,975.

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Ishii, Takami; Sugiura, Shotaro; and Takikawa, Naohisa, 3,687,898.

Takayanagi, Motowo; Sugiura, Shotaro; Matsuura, Tetsuro; Ueno, Haruo; Tsuji, Keiichi; Yamamoto, Shinzi; and Matsumoto, Fuminori, 3,644,585.

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Sugiura, Susumu: *See*—
Sakamaki, Hisashi; Kimura, Yoshimasa; Sawamura, Osamu; and Sugiura, Susumu, 3,693,969.

Sugiyama, Atsushi: *See*—
Watase, Hideo; Kobayashi, Akira; Hirakawa, Tadashi; and Sugiyama, Atsushi, 3,634,580.

Sugiyama, Hironari: *See*—
Kado, Masaru; Kimura, Ichiro; and Sugiyama, Hironari, 3,671,216.

Kimura, Ichiro; Sugiyama, Hironari; and Kado, Masaru, 3,682,616.

Sugiyama, Hiroshi: *See*—
Ikeda, Takuo; Matsumoto, Otohei; and Sugiyama, Hiroshi, 3,649,615.

Yamane, Mikiya; Saito, Akira; Matsumoto, Katsuyoshi; Kawasumi, Kenichi; Murayama, Kazuo; and Sugiyama, Hiroshi, 3,642,340.

Sugiyama, Hisao: *See*—
Ukai, Jun; and Sugiyama, Hisao, 3,652,028.

Sugiyama, Iwakichi: *See*—
Setsuda, Kisuake; and Sugiyama, Iwakichi, 3,692,752.

Sugiyama, Iwakichi; and Tomozuka, Haruki, to Matsumoto Chemical Industry Co., Ltd. Process for preparing titanium oxide pigment having high dispersibility in hydrophobic systems. 3,642,510, 2-15-72, Cl. 106-300.

Sugiyama, Iwao: *See*—
Kubokura, Kuniaki; and Sugiyama, Iwao, 3,659,172.

Sugiyama, Keiji, to Pioneer Electronic Corporation. Method of manufacturing a magnetic head. 3,686,751, 8-29-72, Cl. 29-603,000.

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Hasegawa, Haruo; Sugiyama, Kimroku; Suzuki, Kikuji; and Hirano, Kunio, 3,672,888.

Sugiyama, Kohei: *See*—
Kawai, Isamu; Nishikawa, Atsuro; Takagi, Osamu; Iwata, Akira; and Sugiyama, Kohei, 3,657,165.

Kiyono, Hiroshi; and Sugiyama, Kohei, 3,679,788.

Sugiyama, Kozo: *See*—
Takahashi, Takehiko; and Sugiyama, Kozo, 3,657,089.

Sugiyama, Kunro: *See*—
Hisada, Takeo; Nakajima, Fumio; Nishi, Takeshi; and Sugiyama, Kunro, 3,680,579.

Sugiyama, Masatoshi: *See*—
Hara, Hikoharu; Ohi, Reiichi; Sugiyama, Masatoshi; and Hatano, Tadao, 3,642,481.

Shiba, Keisuke; Ohi, Reiichi; Sugiyama, Masatoshi; Ohhashi, Azusa; and Tsubota, Motoniko, 3,658,547.

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Ohi, Reiichi; Kondo, Tokiharu; Sugiyama, Mitsunori; and Syoji, Ishiguro, 3,635,717.

Ushimaru, Yoshuke; Nakajima, Yosuke; Sugiyama, Mitsunori; Nishio, Fumihiko; and Kobayashi, Shigeru, 3,656,955.

Sugiyama, Naohisa: *See*—
Nagai, Haruo; and Sugiyama, Naohisa, 3,647,729.

Sugiyama, Sadao: *See*—
Nabae, Akira; Arai, Mitsuru; Arakawa, Osamu; and Sugiyama, Sadao, 3,683,138.

Sugiyama, Takaharu: *See*—
Fujino, Kiyoshi; Otsuka, Shigenobu; Kaichi, Tetuo; Sugiyama, Takaharu; and Tamura, Koji, 3,693,385.

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Sugiyama, Takashi; Kurata, Satoshi; and Nakane, Hisao, to Yokogawa Electric Works, Ltd. Ratio measuring apparatus. 3,652,930, 3-28-72, Cl. 324-57.

Sugiyama, Yoshihiko: *See*—
Terai, Shiro; Sugiyama, Yoshihiko; Suzuki, Toshio; and Irie, Hiroshi, 3,666,520.

Suguri, Susumu: *See*—
Shigematsu, Hiroji; Yamaguchi, Tomio; Fukue, Hisanobu; Ogawa, Hiroshi; Hashimoto, Takashi; Murakoshi, Kenichi; Suguri, Susumu; and Fujimura, Tsutomu, 3,699,436.

Suh, John T.: *See*—
Skorcz, Joseph A.; Suh, John T.; and Judd, Claude I., 3,635,964.

Skorcz, Joseph A.; and Suh, John T., 3,651,079.

Skorcz, Joseph A.; Suh, John T.; and Judd, Claude I., 3,657,238.

Skorcz, Joseph A.; Suh, John T.; and Judd, Claude I., 3,704,299.

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Suh, John T., to Colgate-Palmolive Company. Pharmaceutical compositions and methods containing 1,2,3,4-tetrahydrobenzothieno [2,3-c] pyridines. 3,636,218, 1-18-72, Cl. 424-263.

Suh, John T., to Colgate-Palmolive Company. Derivatives of 1,2,3,4-tetrahydrobenzothieno [2,3-c]pyridines. 3,651,068, 3-21-72, Cl. 260-294,8.

Suh, John T.; and Schnettler, Richard A., to Colgate-Palmolive Company. 13-Substituted dibenzo[b,g]quinolizines. 3,654,284, 4-4-72, Cl. 260-289.

Suh, John T.; and Schnettler, Richard A., to Colgate-Palmolive Company. 1,2-Disubstituted benzo [b] quinolizines. 3,655,671, 4-11-72, Cl. 260-288.

Suh, John T.; and Schnettler, Richard A., to Colgate-Palmolive Company. 1-Hydroxybenzo[6]quinolizine derivatives. 3,661,915, 5-9-72, Cl. 260-289.

Suh, John T., to Colgate-Palmolive Company. Pharmaceutical compositions containing amides of β -(3-thianaphthyl) ethylamines. 3,663,702, 5-16-72, Cl. 424-275.

Suh, John T.; and Schnettler, Richard A., to Colgate-Palmolive Company. 2-Hydroxybenzo [b]quinolizines. 3,665,006, 5-23-72, Cl. 260-289.

Suh, John T., to Colgate-Palmolive Company. 1H-3-(Substituted aminoalkylidene) cyclopenta[b]thianaphthenes. 3,682,967, 8-8-72, Cl. 260-330,500.

Suh, John T.; and Bare, Thomas M., to Colgate-Palmolive Company. 1-(4-Hydroxy-3-(hydroxymethyl)-phenyl) -1-hydroxy-2-aralkylaminoethanes. 3,700,692, 10-24-72, Cl. 260-340,500.

Suh, John T., to Colgate-Palmolive Company. Certain 2-amidino-1,2,3,4-tetrahydrobenzothieno [2,3-c]azepines. 3,704,237, 11-28-72, Cl. 260-294,80b.

Suhami, Albert; Sabbah, Benjamin; Inbar, Dan; Yarom, Artzi; and Ben-Zeev, Dan, to Elscint Ltd. Phototubes for scintillation detector. 3,701,901, 10-31-72, Cl. 250-71,50r.

Suhara, Toshiro; and Fukuda, Shigehisa. Electric explosion metal spraying for substrate. 3,639,150, 2-1-72, Cl. 117-93.

Suhara, Yasuji: *See*—
Umezawa, Hamao; Maeda, Kenji; and Suhara, Yasuji, 3,681,398.

Suhr, James L.: *See*—
Womble, George E.; and Suhr, James L., 3,635,506.

Suhr, James L., to Kewanee Machinery & Conveyor Co. Drive line bearing and connector. 3,633,981, 1-11-72, Cl. 308-27.

Suhs, Gerhard W., to Combustion Engineering, Inc. Flexible seal between roof and sidewalls of a steam generator. 3,645,238, 2-29-72, Cl. 122-235.

Suisher, Jno H., & Son: *See*—
Sundberg, Robert C.; Carlson, William; and Wood, Lampkin H., 3,636,958.

Suisse, Georges. Projection gun. 3,682,384, 8-8-72, Cl. 239-15,000.

Suita, Shigeo, to Mizoguchi, Ryuichi and Kamiya, Masataka. Automatic door opening and closing means. 3,660,939, 5-9-72, Cl. 49-263.

Suitcase Shower Ltd.: *See*—
Downey, Mackenzie A., 3,657,746.

Suizu, Kanichi, to Kawasaki Jukogyo Kabushiki Kaisha. Multiple-spindle drilling machine. 3,682,560, 8-8-72, Cl. 408-46,000.

Suka, Motoshi: *See*—
Kii, Toshimichi; and Suka, Motoshi, 3,679,651.

Sukegawa, Tokuzo: *See*—
Nishizawa, Jun-ichi; and Sukegawa, Tokuzo, 3,633,059.

Sukekawa, Izumi: *See*—
Nara, Kizo; Sukekawa, Izumi; and Yamada, Yasuo, 3,696,656.

Sukel, Gerald J.: *See*—
Rubin, Jacob C.; and Sukel, Gerald J., 3,677,069.

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Sukhov, Vladimir Evgenievich: *See*—
Edigarian, Zorab Parnakovich; Kudinov, Evgeny Ivanovich; and Sukhov, Vladimir Evgenievich, 3,693,730.

Sukonnikov, Felix Semenovich: *See*—
Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov, Nikolai Nikolaevich; Purnalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Elisev Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and rits, Leonid Borisovich, 3,683,683.

Sukornick, Bernard: *See*—
Aaronson, Henry A.; Schwartz, Frank R.; and Sukornick, Bernard, 3,636,882.

- Price, Alton K.; and Sukornick, Bernard, 3,674,798.
 Sukow, Daniel L.: *See—*
 Fuchs, Richard C.; Sukow, Daniel L.; and Wilke, Dennis P., 3,671,785.
 Suladze, Ippolit Davidovich: *See—*
 Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Kantor, Ilya Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhanelidze, Vazna Venediktovich; Topolyanky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, 3,689,010.
 Sulby Engineering Development Company Limited, The: *See—*
 French, Lionel John Bryant Rushent, 3,637,203.
 Sulcs, Eduard: *See—*
 Mollerstedt, Bengt O. P.; and Sulcs, Eduard, 3,639,643.
 Suldin, Stanislav Nikolaevich: *See—*
 Erlykin, Ivan Ivanovich; Vasin, Alexandr Ivanovich; Korotkov, Mikhail Mikhailovich; Maximov, Vadim Yakovlevich; Matveev, Ivan Ivanovich; Kadyshchev, Vladimir Borisovich; Volkov, Valentin Vladimirovich; Firsell, Vladlen Borisovich; Bulatkin, Vladimir Dmitrievich; Malekhanov, Igor Evgenievich; and Suldin, Stanislav Nikolaevich, 3,693,570.
 Sulfom Limited: *See—*
 Ellithorpe, Ernest; and Fletcher, Ronald B., 3,684,005.
 Sulich, Janusz S., to Bendix Corporation, The. Fluidic fluidmetering system, 3,698,413, 10-17-72, Cl. 137-81.500.
 Suling, Carlhans: *See—*
 Honig, Hans Ludwig; Suling, Carlhans; Dieterich, Dieter; and Reischl, Artur, 3,684,758.
 Schnalke, Karl-Erwin; Suling, Carlhans; Logemann, Heino; and Resz, Raoul, 3,639,514.
 Suling, Carlhans; Logemann, Heino; Kramer, Dieter; Rachwalsky, Heinz; and Marzolph, Herbert, to Farbenfabriken Bayer Aktiengesellschaft. Stabilised solutions of acrylonitrile-vinylidene chloride copolymers, 3,644,265, 2-22-72, Cl. 260-32.6.
 Sulinski, Harry V., to United States of America, Army. Shell mold composition, 3,656,983, 4-18-72, Cl. 106-38.3.
 Sulkowski, Theodore S.; and Mascitti, Albert A., to American Home Products Corporation. α -Imino-2-toluic acids, 3,647,865, 3-7-72, Cl. 260-518.
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 Sulkowski, Theodore S.; and Childress, Scott J., to American Home Products Corporation. Process for preparing 9b-substituted-1-sulfonyl-1,2,3,9b-tetrahydro-5H-imidazo [2,1-a] isindol-5-ones, 3,657,221, 4-18-72, Cl. 260-309.7.
 Sulkowski, Theodore S., to American Home Products Corporation. Process for the preparation of tetrahydropyrimidoinisindolols, 3,657,240, 4-18-72, Cl. 260-251.
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 Sullifoam, Inc.: *See—*
 Sullivan, Matthew A., 3,675,595.
 Sullivan, Alfred Bay; and Campbell, Robert Henry, to Monsanto Company. 2-Morpholinylsulfonyl benzothiazoles, 3,635,918, 1-18-72, Cl. 260-79.5.
 Sullivan, Alfred Bay, to Monsanto Company. Method for preparation of organic polysulfides, 3,705,923, 12-12-72, Cl. 260-608.000.
 Sullivan, Arthur Basil Joseph: *See—*
 Houldcroft, Peter Thomas; and Sullivan, Arthur Basil Joseph, 3,679,863.
 Sullivan, Bernard P.: *See—*
 Dey, Arabinda N.; and Sullivan, Bernard P., 3,655,585.
 Sullivan, Bruce M.; and Kaus, Carl M., to Donaldson Company, Inc. Retention means for air cleaner element, 3,672,130, 6-27-72, Cl. 55-323.000.
 Sullivan, Charles E., 30% to Spain, Byron and 65% to Holman, Robert S. Fluid flow control device, 3,685,538, 8-22-72, Cl. 137-504.000.
 Sullivan, Charles I.; and Cahill, Richard H., to Staley, A. E., Manufacturing Company. Polymer composition, 3,697,466, 10-10-72, Cl. 260-29.6.
 Sullivan, Daniel D.: *See—*
 Burton, Herbert O.; Reddy, Sudhakar M.; Sullivan, Daniel D.; and Tong, Shih Y., 3,638,182.
 Sullivan, David Lee, to Du Pont de Nemours, E. I., and Company. Trimerization of butadiene, 3,655,795, 4-11-72, Cl. 260-666.
 Sullivan, Dean R., to United States of America, Navy. Automatic threshold detector with selectable percentage of threshold crossings, 3,665,326, 5-23-72, Cl. 328-151.
 Sullivan, Donald B.: *See—*
 Mullen, Lewis O.; and Sullivan, Donald B., 3,649,356.
 Sullivan, Donald P.: *See—*
 Heeks, Robert E.; and Sullivan, Donald P., 3,660,100.
 Sullivan, Edward A.; and Wade, Robert C., to Ventron Corporation. Chemical plating baths containing an alkali metal cyanoborohydride, 3,637,472, 1-25-72, Cl. 204-46.
 Sullivan, Edward F., 1/2 to B & K Tool & Die Corporation. Method and apparatus for machining rings, 3,660,945, 5-9-72, Cl. 51-73.
 Sullivan, Edward F., to Crown Cork & Seal Company, Inc. Container closing apparatus and method, 3,660,963, 5-9-72, Cl. 53-42.
 Sullivan, Edward F. High compression piston ring and piston assembly, 3,687,018, 8-29-72, Cl. 92-169.000.
 Sullivan, Francis F.: *See—*
 Hartman, Seymour; and Sullivan, Francis F., 3,652,360.
 Sullivan, Francis G., to Simpson Industries, Inc. Three-phase gauging system, 3,696,513, 10-10-72, Cl. 33-174.000.
 Sullivan, Frank, to GAF Corporation. Secondary oil recovery process, 3,637,494, 1-25-72, Cl. 252-8.55.
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 Sullivan, Gene F., to Brown, Howard W. Portable hoisting unit, 3,671,015, 6-20-72, Cl. 254-142.000.
 Sullivan, Harold G., to United States of America, Air Force. Automatic channel equalization apparatus with data equalization mode adaptor, 3,671,672, 6-20-72, Cl. 178-69.00a.
 Sullivan, Herbert: *See—*
 Arbuckle, Timothy; and Sullivan, Herbert, 3,656,108.
 Sullivan, James D.: *See—*
 Gieseking, Carl W.; and Sullivan, James D., 3,647,752.
 Sullivan, James Franklin, to Deere & Company. Depth control means for a moldboard plow, 3,700,043, 10-24-72, Cl. 172-400.000.
 Sullivan, John Anthony, to Simon, Henry, Limited. Container machinery, 3,638,538, 2-1-72, Cl. 93-93.
 Sullivan, John F.: *See—*
 Benjamin, Lawrence; and Sullivan, John F., 3,635,828.
 Moody, Roy A.; Sullivan, John F.; and Thayer, Arlie J., 3,668,744.
 Sullivan, John P., Jr., to Itek Corporation. Gelable and gelled compositions, 3,700,451, 10-24-72, Cl. 96-66.000.
 Sullivan, John R. Canopy for vehicles, 3,638,993, 2-1-72, Cl. 296-95.
 Sullivan, Joseph M.: *See—*
 Cochran, Thomas J.; Coughlin, Charles P.; Ficker, Walter W.; Lent, Charles V.; and Sullivan, Joseph M., 3,702,042.
 Sullivan, Joseph T., to Standard-Farrington Alarm & Signal Corporation. Precision temperature detection and alarm system, 3,667,419, 6-6-72, Cl. 116-106.000.
 Sullivan, Joseph T., to Standard-Farrington Alarm & Signal Corporation. Automatic time-controlled alarm system, 3,688,293, 8-29-72, Cl. 340-213.00r.
 Sullivan, Matthew A. Control cable, 3,657,942, 4-25-72, Cl. 74-501.
 Sullivan, Matthew A., to Sullifoam, Inc. Pallet, 3,675,595, 7-11-72, Cl. 108-51.000.
 Sullivan, Matthew A., to Sullivan Products, Inc. Fuel tank for use in model airplanes, 3,679,092, 7-25-72, Cl. 220-85.00r.
 Sullivan, Michael F., to Eastman Kodak Company. Palladium images by hydrogen reduction, 3,687,668, 8-29-72, Cl. 96-48.000.
 Sullivan, Michael J.: *See—*
 Ulm, Ralph E.; Phillips, Claude F.; Sullivan, Michael J.; Collins, Larry C.; and Parrent, William Russell, 3,666,381.
 Sullivan, Miles Vincent: *See—*
 Peters, Frank Groom; Sinclair, William Robert; and Sullivan, Miles Vincent, 3,650,921.
 Peters, Frank Groom; Sinclair, William Robert; and Sullivan, Miles Vincent, 3,669,863.
 Sullivan, Norman M., to Rapistan Incorporated. Baggage handling system, 3,695,462, 10-3-72, Cl. 214-16.00b.
 Sullivan, Paul A.: *See—*
 Stevens, Eugene H.; and Sullivan, Paul A., 3,659,049.
 Sullivan, Paul E.: *See—*
 Herbert, John T.; Sullivan, Paul E.; and Vitt, Stanley P., 3,680,895.
 Sullivan, Paul G.; MacLeod, Kenneth H.; and Kempa, Joseph E., to Hanna Mining Company, The. Screening apparatus, 3,703,995, 11-28-72, Cl. 241-69.000.
 Sullivan Products, Inc.: *See—*
 Sullivan, Matthew A., 3,679,092.
 Sullivan, Raymond: *See—*
 Anderson, Daniel Gustav; Gladding, Edward Karcher; and Sullivan, Raymond, 3,641,104.
 Sullivan, Robert E.: *See—*
 Salmasny, Oscar E.; and Sullivan, Robert E., 3,704,363.
 Sullivan, Robert H.: *See—*
 Lawrence, Frederick R.; and Sullivan, Robert H., 3,687,981.
 Sullivan, Robert H., to Du Pont de Nemours, E. I., and Company. Preparation of para nitrobenzoic acids and 4'-nitro-4-biphenylcarboxylic acids, 3,681,444, 8-1-72, Cl. 260-515.00r.
 Sullivan, Robert H., to Du Pont de Nemours, E. I., and Company. Process for oxidizing xylenes to phthalic acids, 3,700,731, 10-24-72, Cl. 260-524.00r.
 Sullivan, Robert J., to Caterpillar Tractor Company. Scraper apron for improved closing in rock, 3,693,273, 9-26-72, Cl. 37-129.000.
 Sullivan, Robert P.; and McClain, John N., to Combustion Engineering, Inc. Assembly fixture for constructing superheater and/or reheater modules, 3,644,978, 2-29-72, Cl. 29-202.

- Sullivan, Robert T., to Polaroid Corporation. Camera attachment for copying photographic transparencies, 3,697,175, 10-10-72, Cl. 355-39.000.
 Sullivan, Ronald D.: *See—*
 Baldwin, Kenneth B.; and Sullivan, Ronald D., 3,701,070.
 Sullivan, Shelby F.: *See—*
 Lindsay, George F.; Sullivan, Shelby F.; and Whitehouse, Harper John, 3,670,151.
 Whitehouse, Harper John; and Sullivan, Shelby F., 3,663,934.
 Sullivan, Shelby F.; and Whitehouse, Harper John, to United States of America, Navy. Structural material with controlled gas entrapment, 3,632,703, 1-4-72, Cl. 264-40.
 Sullivan, Thomas E.; and Frenkel, Lothar, to United States of America, National Aeronautics and Space Administration. Waveguide mixer, 3,633,110, 1-4-72, Cl. 325-445.
 Sullivan, Wayne A.; and Scolaro, Donald A., to Bendix Corporation, The. Gated variable polarity reversing ramp generator, 3,648,067, 3-7-72, Cl. 307-228.
 Sullivan, Wayne S., to Camelot Stone, Inc. Method of making cellular plastic building panel, 3,700,516, 10-24-72, Cl. 156-79.000.
 Sullivan, William A.: *See—*
 Aser, Gilbert A.; and Sullivan, William A., 3,687,541.
 Sullivan, William A., to Xerox Corporation. Method and apparatus for removing a residual image in an electrostatic copying system, 3,634,077, 1-11-72, Cl. 96-1.4.
 Sullivan, William A., to Xerox Corporation. Simultaneous image transfer, 3,697,171, 10-10-72, Cl. 355-17.000.
 Sullivan, William A., Jr.: *See—*
 Palermitti, Frank M.; Royka, Stephen F.; Sullivan, William A., Jr.; and Emerald, Robert L., 3,635,704.
 Sullivan, William A., Jr., to Xerox Corporation. Method for developing electrostatic latent images, 3,707,390, 12-26-72, Cl. 117-17.500.
 Sulser, Troy S.: *See—*
 Horton, John P.; and Sulser, Troy S., 3,678,530.
 Sulzberg, Theodore; and Cotter, Robert J., to Union Carbide Corporation. Carboxy 9-dicyanomethylene nitrofluorene, 3,637,798, 1-25-72, Cl. 260-465.
 Sulzer Brothers Limited: *See—*
 Brunner, Alfred, 3,670,874.
 Bucher, Robert, 3,693,904.
 Demuth, Hans, 3,670,776.
 Dolezal, Richard, 3,648,667.
 Dolezal, Richard, 3,690,303.
 Feiss, Rene T., 3,698,067.
 Frei, Arno, 3,685,839.
 Hartmann, Fortunat; and Gisler, Hans Rudolf, 3,644,093.
 Huber, Max; and Meier, Werner, 3,679,537.
 Huber, Max; and Schutz, Gerbard Alfred, 3,681,932.
 Inglin, Anton Xaver, 3,667,508.
 Leysinger, Hans Rudolf, 3,642,222.
 Luber, Paul, 3,672,407.
 Modl, Frich K., 3,689,255.
 Pellkofer, Dieter, 3,659,075.
 Pfarrwaller, Erwin, 3,633,711.
 Pfarrwaller, Erwin, 3,696,842.
 Roffler, Josua, 3,682,140.
 Sauter, Josef, 3,665,895.
 Sharan, Harendra Nath, 3,649,155.
 Sharan, Harendra Nath, 3,695,817.
 Sieber, Adolf, 3,686,502.
 Steiger, Anton, 3,633,823.
 Steiger, Anton, 3,640,466.
 Steiner, Josef; and Widmer, Adolf, 3,675,686.
 Stiefel, Werner, 3,685,496.
 Weiss, Kurt, 3,661,135.
 Zimmermann, Urs, 3,638,055.
 Zurcher, Alfred, 3,653,303.
 Zurcher, Alfred, 3,659,504.
 Sulzer, Hubert: *See—*
 Hinterholz, Ernst; and Sulzer, Hubert, 3,633,399.
 Sumerling, Roger Adrian: *See—*
 Clark, Eric; and Sumerling, Roger Adrian, 3,660,120.
 Sumi, Kenshiro: *See—*
 Moriki, Juichi; Itoh, Teruo; Shiosaki, Masaharu; Maeda, Yojin; Kuroki, Hisataka; Sumi, Kenshiro; and Shimura, Hidekazu, 3,662,194.
 Sumi, Kiyoshi; and Sunano, Naomasa, to Shiney Co. Semiconductor element for detecting gases and meter for measuring component concentration of a gas mixture, 3,699,803, 10-24-72, Cl. 73-27.00r.
 Sumi, Kunio: *See—*
 Mizutani, Shigeru; Sumi, Kunio; and Ando, Shinji, 3,645,061.
 Sumi, Mitsugu: *See—*
 Morikawa, Takashi; Higake, Sotomatsu; Sumi, Mitsugu; Urifu, Tohoru; and Yamamoto, Manabu, 3,696,605.
 Sumi, Seiji; and Kaneda, Isao, to New Nippon Electric Company Ltd. Nonlinear circuit device, 3,636,374, 1-18-72, Cl. 307-106.
 Sumi, Shozo: *See—*
 Kishino, Shigeo; Yamada, Yasuo; Kudamatsu, Akio; Sumi, Shozo; and Shiokawa, Kozo, 3,683,053.
 Sumida, Hajime: *See—*
 Shimizu, Tetsuji; Sumida, Hajime; Ueno, Sinichi; Usami, Susumo; and Tatamatu, Sinzi, 3,634,652.
 Shimizu, Tetsuji; Yoshida, Takaomi; Otake, Sugako; Sumida, Hajime; and Ueno, Sinichi, 3,694,690.
 Sumida Shiko Co., Ltd.: *See—*
 Yumoto, Hirokazu, 3,659,367.
 Sumikama, Sadao, to Showa Denko Kabushiki. Heat flow meter, 3,680,374, 8-1-72, Cl. 73-190.00h.
 Sumikama, Sadao, to Showa Denko Kabushiki. Radiant heat flow meter, 3,693,447, 9-26-72, Cl. 73-341.000.
 Sumilas, John W.: *See—*
 Hoffman, William K.; and Sumilas, John W., 3,648,063.
 Sumimoto Chemical Company, Ltd.: *See—*
 Maemoto, Kenichi; and Shimamura, Takeshi, 3,651,028.
 Sumimoto, Shinzaburo; Makisumi, Yasuo; and Kano, Hideo, to Shionogi & Co., Ltd. Production of iodoisoxazole compounds, 3,660,383, 5-2-72, Cl. 260-239.9.
 Sumino, Yasuhiro: *See—*
 Fukuda, Hideo; Suzuki, Takashi; Sumino, Yasuhiro; and Akiyama, Shunichi, 3,671,395.
 Fukuda, Hideo; Suzuki, Takashi; Akiyama, Shunichi; and Sumino, Yasuhiro, 3,689,359.
 Sumitomo Bakelite Company Limited: *See—*
 Oshima, Keiji; Yamada, Shozo; Sakurai, Fujio; Iwasa, Yoshisuke; Horiuchi, Koichi; Uchida, Unosuke; Nomura, Teruhiko; and Tominaga, Yasushi, 3,699,203.
 Sassa, Atsuo; Yukutomi, Masuo; Shinkawa, Hiroto; Mori, Tunes; and Homma, Keisuke, 3,697,566.
 Sumitomo Chemical Co., Ltd.: *See—*
 Ueno, Katsumi; Oshima, Takao; and Seki, Hideo Company, 3,697,496.
 Sumitomo Chemical Company, Limited: *See—*
 Hamada, Takaki; Nakashio, Seizo; Maruta, Isao; Hayatsu, Kazuo; Seto, Tetsuki; and Kono, Yoichi, 3,700,630.
 Ichiki, Eiichi; Iida, Kazuo; Inoue, Yasuhiko; and Kondo, Yoshihiro, 3,674,541.
 Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Yamamoto, Hisao, 3,666,643.
 Nakashio, Seizo; Takemura, Toshio; and Ota, Kunio, 3,658,949.
 Takatoshi, Shimomura, 3,699,190.
 Tohma, Wataru; Murata, Takao; Nakamura, Nobutaka; and Kudo, Atsushi, 3,696,622.
 Usamoto, Teruyoshi; and Okita, Taisuke, 3,641,215.
 Usamoto, Teruyoshi; Yokota, Masao; and Kondo, Tamotu, 3,651,176.
 Usamoto, Teruyoshi; Yokota, Masao; and Kondo, Tamotu, 3,669,828.
 Usamoto, Teruyoshi; Hatada, Yasutaka; Furuichi, Itsuro; and Matsuo, Masao, 3,706,819.
 Yamamoto, Keisaku; Takao, Hiroyoshi; Hirooka, Masaaki; and Oshima, Teruo, 3,655,583.
 Yamamoto, Keisaku; Takao, Hiroyoshi; Hirooka, Masaaki; and Oshima, Teruo, 3,674,755.
 Yamanouchi, Saburo; Yasuno, Kiyoshi; Yamatohoriyama, Kou Sota; and Okumura, Takuzo, 3,700,750.
 Sumitomo Chemical Company, Limited, mesne: *See—*
 Tadenuma, Hachiro; Murakami, Tarojiro; and Mitsushima, Hirotosugu, 3,655,771.
 Sumitomo Chemical Company, Ltd.: *See—*
 Adachi, Teruo, 3,663,517.
 Arasaki, Seitetsu; Yamamoto, Hisao; and Inaba, Shigeo, 3,647,785.
 Enomoto, Sigeharu; Sato, Katsunobu; and Suzuki, Goichi, 3,704,302.
 Fujinami, Akira; Ozaki, Toshiaki; Horiuchi, Fukashi; Yamamoto, Sigeo; Akiba, Keiichi; Tanaka, Katsutoshi; Ooba, Shigeo; Oishi, Tadashi; Nodera, Katsuji; and Kameda, Nobuyuki, 3,668,217.
 Fukumura, Masataka; Shimago, Kozo; Okano, Shigeru; Nakatani, Hiroshi; and Hesaka, Kenji, 3,666,756.
 Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiko; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,632,671.
 Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiko; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,657,046.
 Hamuro, Keizo, 3,702,891.
 Hirohashi, Toshiyuki; Izumi, Takahiro; and Yamamoto, Hisao, 3,676,460.
 Hirooka, Masaaki; Yasui, Seimei; Mashita, Kentaro; and Kimura, Fumiyuki, 3,700,648.
 Hotta, Seiji; Nakano, Tomio; Kenmochi, Hirohito; and Akamatsu, Takashi, 3,636,064.
 Ichiki, Eiichi; Iida, Kazuo; and Matui, Aturo, 3,652,621.

Ichiki, Eiichi; Inoue, Yasuhiko; Kondo, Yoshihiro; and Yako, Tadaaki, 3,657,299.
 Ichiki, Eiichi; Iida, Kazuo; Inoue, Yasuhiko; and Uyeo, Keizo, 3,691,108.
 Ikeda, Takuo; Matsumoto, Otohei; and Sugiyama, Hiroshi, 3,649,615.
 Inaba, Shigeo; Akatsu, Mitsuhiro; and Yamamoto, Hisao, 3,674,808.
 Itaya, Nobushige; Kamoshita, Katsuzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Nakai, Shinji; Kameda, Nobuyuki; Fujimoto, Keimei; and Okuno, Yositosi, 3,666,789.
 Itaya, Nobushige; Kamoshita, Katsuzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Nakai, Shinji; Kameda, Nobuyuki; Fujimoto, Keimei; and Okuno, Yositosi, 3,669,989.
 Itaya, Nobushige; Mizutani, Toshio; Kitamura, Shigeyoshi; Okuno, Yositosi; and Fujimoto, Keimei, 3,671,548.
 Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,647,866.
 Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,662,000.
 Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Kuruma, Hiroshi; and Murata, Yoshiro, 3,666,840.
 Iwashita, Akira; Tsunokawa, Tamio; and Yuyama, Masahiro, 3,699,081.
 Kaminaka, Hiroshi; Kotera, Norio; Kanda, Tatsuo; Kuruma, Hiroshi; Yanagihara, Hideki; and Murata, Yoshiro, 3,691,278.
 Kaneko, Shin-ichi; Takahashi, Kei; and Yamamoto, Hisao, 3,705,153.
 Kenmochi, Hirohito; Hotta, Seiji; and Akamatsu, Takashi, 3,632,611.
 Kenmochi, Hirohito; Hotta, Seiji; and Akamatsu, Takashi, 3,663,537.
 Kishikawa, Hiroshi; Ishikawa, Shintaro; and Miyawaki, Kenji, 3,657,163.
 Kitamura, Shigeyoshi; Hirai, Hajime; Okuno, Yositosi; and Fujimoto, Keimei, 3,655,654.
 Kitamura, Shigeyoshi; Hirai, Hajime; Okuno, Yositosi; and Fujimoto, Keimei, 3,702,864.
 Koga, Koichi; Hatori, Minoru; and Akamatsu, Takashi, 3,671,543.
 Koga, Koichi; Suda, Hideaki; and Akamatsu, Takashi, 3,691,203.
 Matsui, Masanao; Kitahara, Takeshi; Fujimoto, Keimei; and Okuno, Yositosi, 3,636,059.
 Matsui, Masanao; and Ueda, Kenzo, 3,657,086.
 Matsui, Masanao; and Horiuchi, Fukashi, 3,666,798.
 Mine, Akihiko; Satomi, Takeo; Hino, Naganori; Kamoshita, Katsuzo; Suzuki, Yoshitsugu; and Nakai, Shinji, 3,644,422.
 Mine, Akihiko; Kamoshita, Katsuzo; Hino, Naganori; and Nakai, Shinji, 3,702,862.
 Mizutani, Toshio; Itaya, Nobushige; Kitamura, Shigeyoshi; Fujimoto, Keimei; and Okuno, Yositosi, 3,702,851.
 Moriyama, Hiroaki; Yamamoto, Hisao; Nagata, Hideo; and Tamaki, Toshio, 3,634,433.
 Muramoto, Noboru; Saiga, Johan; and Suzuki, Yoshitsugu, 3,639,536.
 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, 3,635,924.
 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; Yabuuchi, Hiroshi; and Takao, Hiroyoshi, 3,647,753.
 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, 3,647,771.
 Nakaguchi, Kohei; Nishikida, Tomozumi; Kawasumi, Shohachi; Maemoto, Kenichi; Sano, Takezo; Fujii, Yoshikazu; Harada, Koichi; and Ueda, Keiichi, 3,669,945.
 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; Yabuuchi, Hiroshi; and Takao, Hiroyoshi, 3,671,492.
 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, 3,700,647.
 Nakamura, Akihiko; Ito, Iko; and Goto, Mutuo, 3,652,525.
 Nakamura, Yasushi; Agatsuma, Kunio; Tanaka, Yoshihiro; and Aono, Shunji, 3,658,829.
 Nakashio, Seizo; Takemura, Toshio; and Ota, Kunio, 3,658,945.
 Namioka, Hisao; Komaki, Norio; and Nishizawa, Seiji, 3,649,598.
 Nomura, Kazuhumi; Nakazato, Kunio; and Matsui, Hideki, 3,647,374.
 Ohkawa, Masaaki; Matsuo, Masatoshi; Sakaguchi, Tadao; and Sato, Syozi, 3,682,907.
 Ohru, Tetsuya; and Sakakibara, Yasuhito, 3,647,376.
 Okamoto, Tadashi; Kobayashi, Tsuyoshi; and Yamamoto, Hisao, 3,669,960.
 Oshima, Teruo; Wada, Takeshi; Nagase, Tsuneyuki; Masuko, Fujio; Hirooka, Masaaki; and Taniguchi, Isoji, 3,671,506.
 Otsuka, Tokio; Sasabe, Shozo; and Nakagawa, Hiroyuki, 3,668,219.

Ozaki, Toshiaki; and Kunihiro, Haruo, 3,649,658.
 Sagawa, Seiji; Kunihiro, Haruo; Kimura, Osamu; and Inoue, Masatoshi, 3,681,371.
 Sagawa, Seiji; Kunihiro, Haruo; Kimura, Osamu; Numata, Kenichiro; and Inoue, Masatoshi, 3,686,132.
 Sato, Katsumi; Nakamura, Takashi; Nakamura, Masaru; Hirasawa, Kazuo; Hamada, Mitsuo; Takahashi, Kenji; Yashima, Masaaki; Ozaki, Toshiaki; Yamamoto, Sigeo; Oolshi, Tadashi; Fujinami, Akira; Horiuchi, Fukashi; and Nodera, Katsuji, 3,703,526.
 Sato, Nobuyasu; Nakamura, Toshio; and Takenaka, Hiroshi, 3,669,987.
 Seki, Hideo; Funada, Mitsuaki; and Ota, Kunio, 3,632,651.
 Shima, Takesaburo; Yamagishi, Akio; Sada, Masao; Osaki, Bonji; and Yamamoto, Zenichi, 3,636,098.
 Shima, Takesaburo; Yamagishi, Akio; Sada, Masao; Yamamoto, Zenichi; and Shiozaki, Hasunaga, 3,668,221.
 Shimomura, Takatoshi; and Kudo, Ken-ichi, 3,652,724.
 Sigiya, Hiroshi; Ikeda, Takuo; and Itani, Takashi, 3,647,827.
 Suzuki, Yoshio; Aono, Shunji; and Fukushima, Hideaki, 3,666,774.
 Tajima, Shigeru; Kobayashi, Katsumi; Fukuhara, Hiroshi; Yamamoto, Hiroki; and Ura, Shigeru, 3,652,583.
 Takagi, Kazumi; and Matsuda, Teruo, 3,637,887.
 Takagi, Kazumi; Matsuda, Teruo; and Murakami, Masahiro, 3,644,402.
 Takagi, Kazumi; and Ishida, Takaharu, 3,644,526.
 Takagi, Kazumi; Murakami, Masahiro; and Iketani, Koichi, 3,666,816.
 Takemura, Toshio; Nakagawa, Isamu; and Nakashio, Seizo, 3,635,890.
 Takeya, Kenji; Uno, Yoshihiro; and Yamane, Akira, 3,637,611.
 Takeya, Kenji; Uno, Yoshihiro; and Akira, Okayama, 3,657,201.
 Terada, Hiroshi; and Shirayama, Kenzo, 3,700,753.
 Terada, Yutaka; Urata, Masanobu; and Yamamoto, Kumeo, 3,645,954.
 Tsuchiya, Hiroshi; Horiuchi, Fukashi; Mukai, Kunio; Kimura, Akio; and Nishizawa, Yoshihiko, 3,636,144.
 Tsuchiya, Hiroshi; Kunio, Nishinomiya-Shi; Kimura, Akio; Kawano, Suminori; Fujimoto, Keimei; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Tanaka, Katsutoshi; Oishi, Tadashi; and Takeda, Hisami, 3,670,057.
 Ueno, Katsuji; and Oshima, Takao, 3,700,608.
 Ueno, Katsuji; and Oshima, Takao, 3,707,513.
 Wakazono, Yoshikazu; Ogawa, Terushige; and Otsuka, Yoshiyasu, 3,664,897.
 Watanabe, Yoshihiro; Kobayashi, Jiro; and Tokumaru, Tooru, 3,637,889.
 Yagi, Yoshiharu; Kobayashi, Akira; and Hirata, Itsuro, 3,651,065.
 Yagi, Yoshiharu; Kobayashi, Akira; and Hirata, Itsuro, 3,684,789.
 Yamada, Eiji; Hamaguchi, Kunimasa; and Akamatsu, Takashi, 3,636,008.
 Yamada, Eiji; Yamaguchi, Kiichiro; and Akamatsu, Takashi, 3,649,645.
 Yamagishi, Akio; Ishida, Takaharu; Aono, Yukinaga; and Kondo, Shigekatsu, 3,636,086.
 Yamagishi, Akio; and Matsumoto, Genya, 3,666,807.
 Yamagishi, Akio; Kondo, Hisashi; Matsumoto, Genya; and Kondo, Shigekatsu, 3,700,718.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,632,573.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,632,574.
 Yamamoto, Hisao; Inaba, Shigeo; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Maruyama, Isamu; and Mori, Kazuo, 3,632,805.
 Yamamoto, Hisao; Inaba, Shigeo; Hirohashi, Toshiyuki; Akatsu, Mitsuhiro; Maruyama, Isamu; and Izumi, Takahiro, 3,634,402.
 Yamamoto, Hisao; Kitagawa, Sumio; Inaba, Shigeo; Sakai, Shigeru; Hirohashi, Toshiyuki; Maruyama, Isamu; Akatsu, Mitsuhiro; and Izumi, Takahiro, 3,641,002.
 Yamamoto, Hisao; Inaba, Shigeo; Arasaki, Seitetsu; Maruyama, Isamu; Takahashi, Kei; Saito, Chiharu; and Sakai, Shigeru, 3,651,230.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,652,551.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,658,809.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro;

Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,663,534.
 Yamamoto, Hisao; Hirohashi, Atsuko; Izumi, Takahiro; and Koshiba, Masao, 3,673,243.
 Yamamoto, Hisao; Okamoto, Tadashi; and Kobayashi, Tsuyoshi, 3,679,672.
 Yamamoto, Hisao; Atsumi, Toshio; and Awata, Hiroshi, 3,682,914.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,697,508.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Izumi, Takahiro, 3,702,321.
 Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Izumi, Takahiro, 3,702,323.
 Yamamoto, Hisao; and Kaneko, Shin-ichi, 3,703,513.
 Yamamoto, Michihiro; and Shimago, Kozo, 3,700,736.
 Yasui, Seimei; Hirooka, Masaaki; and Oshima, Teruo, 3,649,573.
 Yasui, Seimei; Hirooka, Masaaki; and Oshima, Teruo, 3,678,018.
 Sumitomo Chemicals Company, Ltd.: See—
 Yagi, Yoshiharu; Kobayashi, Akira; Hirata, Itsuro; and Sato, Hiroshi, 3,681,315.
 Sumitomo Durez Company, Ltd.: See—
 Murata, Takao; and Kudo, Atsushi, 3,666,703.
 Tohma, Wataru; Murata, Takao; Nakamura, Nobutaka; and Kudo, Atsushi, 3,696,622.
 Sumitomo Electric Industries, Ltd.: See—
 Akai, Shin-ichi; and Aoyagi, Katsunosuke, 3,690,846.
 Hirai, Akiyoshi; Doi, Kaname; and Noguchi, Takeshi, 3,688,876.
 Inose, Hiroshi; Fujisaki, Hiroya; and Hamada, Takashi, 3,660,812.
 Irie, Tadasu; and Doi, Kaname, 3,667,576.
 Kawakita, Takao; Ikeda, Hiroaki; Matsumura, Shigeru; and Taniguchi, Kunichiko, 3,671,300.
 Kumon, Osamu, 3,659,127.
 Kurauchi, Noritaka; Fujimoto, Tokio; Yoshida, Kenichi; Ui, Masamitsu; Nagata, Zenji; and Kouno, Hirokazu, 3,636,436.
 Kurauchi, Noritaka; Tada, Shotaro; Shima, Hiroshi; Hiraoka, Susumu; Nagao, Taichiro; Koyama, Masahiro; Shiraishi, Satoshi; Shindo, Masuo; and Kobayashi, Yoshinobu, 3,674,990.
 Miyauchi, Hirokazu; and Wakabayashi, Yasuo, 3,635,621.
 Miyauchi, Hirokazu; and Matsubara, Hironaga, 3,684,821.
 Motoyoshi, Kenya, 3,698,877.
 Nakahara, Tsuneo; Kurauchi, Noritaka; and Kitani, Hiroshi, 3,648,172.
 Nakahara, Tsuneo; Kurauchi, Noritaka; Kitani, Hiroshi; and Takemura, Kenji, 3,659,094.
 Nakahara, Tsuneo; and Yoshida, Kenichi, 3,691,463.
 Oga, Toshiaburo; and Okazaki, Ken, 3,664,888.
 Oga, Toshiaburo; and Okazaki, Ken, 3,704,176.
 Sugimoto, Yoichi; Nakata, Shizuhiro; Nakashima, Atsuo; and Idomoto, Souzo (said Idomoto assor. to), 3,692,922.
 Takeo, Keinosuke; Kosugi, Kazuo; and Kamise, Tadaoki, 3,669,762.
 Tanaka, Toshihiko; and Masuda, Shigeo, 3,702,813.
 Yokota, Minoru, 3,694,195.
 Yoshikawa, Kengi; and Hayashi, Etsuo, 3,704,048.
 Sumitomo Light Metal Industries Limited: See—
 Terai, Shiro; Sugiyama, Yoshihiko; Suzuki, Toshio; and Irie, Hiroshi, 3,666,520.
 Terai, Shiro; Suzuki, Toshio; Hasegawa, Yoshihumi; Horiguchi, Shojiro; Nakamura, Michie; Kimata, Shizuo; and Suzuki, Tadanobu, 3,671,476.
 Sumitomo Metal Industries, Ltd.: See—
 Kanokogi, Tatsuro, 3,648,997.
 Kanokogi, Tatsuro; and Yasumoto, Kunio, 3,667,534.
 Oda, Naoteru; Nishimura, Seiichi; and Komatsu, Hideo, 3,702,694.
 Shiraiwa, Toshio; Yamaguchi, Hisao; and Kido, Yasunori, 3,662,590.
 Shiraiwa, Toshio; and Terasaki, Fukunaga, 3,663,310.
 Shiraiwa, Toshio; and Hiroshima, Tatsuo, 3,670,239.
 Shirane, Yasuhio; and Yamada, Junzo, 3,701,397.
 Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,652,345.
 Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,652,346.
 Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,658,605.
 Sumitomo Metal Mining Company Limited: See—
 Okuyama, Yasushi; Takano, Sho; and Suzuki, Ryokuya, 3,661,219.
 Sumitomo Naugatuck Company, Ltd.: See—
 Sakuma, Torimitsu, 3,639,216.
 Sumitomo, Norishige: See—
 Kawase, Shinji; and Sumitomo, Norishige, 3,696,640.
 Sumitomo, Norishige, to Precision Fukuhara Works, Ltd. Needle selecting means for knitting machines. 3,696,641, 10-10-72, Cl. 66-40.000.
 Sumiyoshi, Masaharu: See—
 Noguchi, Masaaki; Sumiyoshi, Masaharu; Sakakibara, Shigeru; Ito, Osamu; and Kato, Takaaki, 3,667,322.
 Okamoto, Atutoshi; Ando, Noriyoshi; Toyama, Koichi; Sumiyoshi, Masaharu; Nakao, Hisaji; and Watanabe, Hisashi, 3,635,531.
 Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,640,152.
 Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,653,281.
 Sumiyoshi, Masaharu; Sakakibara, Shigeru; Ito, Osamu; and Kato, Takaaki, to Toyota Jidosha Kogyo Kabushiki Kaisha and Nippon Denso Kabushiki Kaisha. Device for controlling in a stepwise manner hydraulic pressure of working oil for use with an automatic transmission having a torque-converter. 3,640,151, 2-8-72, Cl. 74-731.
 Sumiyoshi, Masaharu; Ito, Osamu; Wakamatsu, Hisato; Kato, Takaaki; and Kawai, Hisasi, to Toyota Jidosha Kogyo Kabushiki Kaisha and Kabushiki Kaisha Toyota Chuo Kenkyusho. Actuating oil pressure control system for torque converter automatic transmission. 3,80,410, 8-1-72, Cl. 74-866.000.
 Sumiyoshi, Masaharu; Suzuki, Akira; Kawabata, Minoru; and Sakurai, Shizuki. Anti-skid braking systems. 3,689,120, 9-5-72, Cl. 303-21.00a.
 Sumiyoshi, Masaharu; Sakakibara, Shigeru; Wakamatsu, Hisato; and Kato, Takaaki, to Nippondenso Kabushiki Kaisha. Automatic transmission. 3,690,197, 9-12-72, Cl. 74-731.000.
 Sumiyoshi, Masaharu: See—
 Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,700,079.
 Sumlock Anita Electronics Limited: See—
 Drage, James John, 3,638,005.
 Drage, James John, 3,666,987.
 Lloyd, John George; and Letheren, John David, 3,683,415.
 Summer, Dale E.: See—
 Brawner, William H.; Gunsalus, Claude A.; and Rockwell, Lowell K., 3,698,337.
 Summer, James R., to Garrett Corporation, The. Fail-safe inflatable slide. 3,674,124, 7-4-72, Cl. 193-25.00b.
 Summer, James R.; and White, Randall F., to Garrett Corporation, The. Fluid distensible truss. 3,692,144, 9-19-72, Cl. 182-48.000.
 Summerer, Raymond Edwin: See—
 Breece, Burton W.; and Summerer, Raymond Edwin, 3,636,509.
 Summerfelt, Vernon E., to Clorox Company, The. Liquid drain opening composition and method. 3,697,431, 10-10-72, Cl. 252-103.000.
 Summerfield, William F.; and Nuttall, Fleet E., to Mattel, Inc. Simplified talking toy. 3,667,763, 6-6-72, Cl. 274-9.00r.
 Summerfield, William F., to Mattel, Inc. Strip record for a phonograph. 3,675,930, 7-11-72, Cl. 274-11.00r.
 Summerlin, Frederick A.: See—
 Alvi, Zia R.; Heslop, Victor L.; and Summerlin, Frederick A., 3,695,088.
 Summerlin, Frederick A., to Avdel Limited. Lockbolt swaging apparatus. 3,645,125, 2-29-72, Cl. 72-391.
 Summerlin, Frederick Arthur: See—
 Bradley, William David; and Summerlin, Frederick Arthur, 3,657,956.
 Sanders, John Stewart; Savage, Donald Stanley; and Summerlin, Frederick Arthur, 3,646,757.
 Summers, Charles Gene; and Young, Evan Johnson, to Monsanto Company. Stabilizing polymers with 2,2'-methylenebis (6-alkyl or cycloalkyl)-3,4-xlenols. 3,632,553, 1-4-72, Cl. 260-45.95.
 Summers, Charles W.: See—
 Horn, Leo B.; and Summers, Charles W., 3,662,699.
 Summers, Daniel J., Jr.: See—
 Lowery, Ronald M.; and Summers, Daniel J., Jr., 3,700,808.
 Summers, George D., to Fairchild Industries, Inc. Visual display communication apparatus for enabling a handicapped or infirm individual to communicate information. 3,651,512, 3-21-72, Cl. 340-325.
 Summers, George D. Implantable bio-data monitoring method and apparatus. 3,672,352, 6-27-72, Cl. 128-2.00r.
 Summers, Gerald D.: See—
 Hess, Robert L.; and Summers, Gerald D., 3,646,296.
 Summers, Hugh B., Jr.: See—
 Hedrick, Glen W.; Summers, Hugh B., Jr.; and Lewis, John B., 3,654,256.
 Summers, James E.: See—
 Kukucka, William P.; and Summers, James E., 3,652,875.
 Turner, Lyman H.; Kukucka, William P.; and Summers, James E., 3,685,712.
 Turner, Lyman H.; Kukucka, William P.; and Summers, James E., 3,690,537.

- Summers, James E., Jr. Metal identification meter employing the thermoelectric effect. 3,667,032, 5-30-72, Cl. 324-32.
- Summers, Joe N., Jr.: *See—*
- Fiedler, Melvin L.; and Summers, Joe N., Jr., 3,648,631.
- Summers, John, & Sons Limited: *See—*
- Jackson, Albert Edward; and Hughes, Phillip Haydn, 3,661,612.
- Jackson, Albert Edward, 3,681,062.
- Summers, John C., to Du Pont de Nemours, E. I., and Company. Dialkyl and dialkenyl N,N'-bis(substituted carbamoyloxy) dithioloxalimides. 3,657,307, 4-18-72, Cl. 260-453.
- Summers, John J.: *See—*
- Tate, Gary L.; Summers, John J.; and Kramer, Joseph O., 3,634,057.
- Summers, Lindsay Anderson: *See—*
- Geoghegan, Michael Joseph Augustine; Turner, John Angus/William; Freeman, Peter Frank Hilary; and Summers, Lindsay Anderson, 3,683,087.
- Summers, McGarvey G. Strain gage monitor. 3,680,365, 8-1-72, Cl. 73-88.50r.
- Summers, Stanley E.; and Seltzer, Clyde W., to Ametek, Inc. Mechanical fuse. 3,675,282, 7-11-72, Cl. 24-230.0sl.
- Summers, Stanley E., to Ametek, Inc. Pressure relief device. 3,693,691, 9-26-72, Cl. 152-427.000.
- Summers, Thomas W., to Brown and Williamson Tobacco Corporation. Piston type cigarette filter. 3,695,274, 10-3-72, Cl. 131-10.00a.
- Summers, Thomas Wade: *See—*
- Sanford, Robert A.; Johnson, Robert Reiner; and Summers, Thomas Wade, 3,667,479.
- Summersby, E. John. Visual communication apparatus. 3,704,683, 12-5-72, Cl. 116-20.000.
- Summit Engineering Corporation: *See—*
- De Sa E Silva, Claudio; and Cheever, Daniel R., 3,699,413.
- Summit Research Laboratories, Inc.: *See—*
- Sheffield, Henry F., 3,634,480.
- Sumner, Elton; and Adams, Aaron W., Jr. Auger construction. 3,636,928, 1-25-72, Cl. 119-52.
- Sumner, George G.: *See—*
- Padovani, Francois A.; and Sumner, George G., 3,634,692.
- Sumoto, Misao: *See—*
- Nishizawa, Hirofumi; Kitauro, Shigeo; Sumoto, Misao; Komagata, Hideki; and Matsumoto, Hiroshi, 3,690,978.
- Sumoto, Misao; Komagata, Hideki; Matsumoto, Hiroshi; and Furusawa, Hironobu, to Toyo Boseki Kabushiki Kaisha. Production of elastomers. 3,701,755, 10-31-72, Cl. 260-75.00r.
- Sumoto, Takao: *See—*
- Uekusa, Genzo; Tanimura, Shigeru; Higashi, Kazuhiro; and Sumoto, Takao, 3,679,949.
- Sump, Kenneth R.; Robinson, Ramon K.; Drumheller, Kirk; and Howard, Boyd D., to United States of America, Atomic Energy Commission. Process of forming an isotopic heat source. 3,666,846, 5-30-72, Cl. 264-500.
- Sumpson, Neville H.: *See—*
- Denniston, David M.; Shanks, David A.; and Sumpson, Neville H., 3,649,260.
- Sumrall, Howell M.: *See—*
- Morley, Carl H.; and Sumrall, Howell M., 3,633,507.
- Sumski, Stanley: *See—*
- Panish, Morton B.; and Sumski, Stanley, 3,677,228.
- Sun Chemical Corporation: *See—*
- Bassemir, Robert W.; Carlick, Daniel J.; and Nass, Gerald I., 3,661,614.
- Gruben, Arnold H.; and Carlick, Daniel J., 3,639,313.
- Jacobson, Eugene, 3,661,307.
- Nass, Gerald I.; and Sprenger, Gerhard E., 3,650,885.
- Schloss, Hans R., 3,666,835.
- Silvestri, Michael A., 3,685,974.
- Sprenger, Gerhard Ewald, 3,642,571.
- Sun Electric Corporation: *See—*
- Halinski, Michael J.; and Wanschek, Larry J., 3,662,192.
- Sun, Herbert K. Y.: *See—*
- Relly, Robert H.; Winburn, Charles F.; and Sun, Herbert K. Y., 3,657,764.
- Sun Koki Kabushiki Kaisha: *See—*
- Yasuo, Suzuki, 3,655,271.
- Sun Oil Company: *See—*
- Bathgate, Robert J.; and Boyer, Jackson S., 3,639,322.
- Bathgate, Robert J., 3,654,048.
- Bean, Roger M., 3,636,123.
- Bean, Roger M., 3,663,630.
- Bennett, John D., 3,633,686.
- Bennett, John D., 3,678,873.
- Bennett, John D., 3,680,633.
- Berry, Holland J.; Hardy, William C.; and Zadow, Dale W., 3,680,635.
- Berry, Holland J.; Hardy, William C.; and Zadow, Dale W., 3,680,636.
- Black, Ernest P., 3,666,744.
- Block, Ernest P., 3,666,618.
- Brillaud, Andre R., 3,634,192.
- Brownstein, Arthur M.; and Kerr, David L., 3,634,328.
- Bushick, Ronald D., 3,637,882.
- Cassar, Richard D.; and Boyer, Jackson S., 3,632,846.
- Cassar, Richard D.; and Boyer, Jackson S., 3,644,284.
- Chaney, Preston E., 3,664,286.
- Davis, Ronald I.; and Scott, Kenneth A., 3,665,043.
- Davis, Ronald I.; and Scott, Kenneth A., 3,665,045.
- Davis, Ronald I., 3,670,039.
- Davis, Ronald I., 3,670,040.
- Driscoll, Gary L., 3,655,808.
- Driscoll, Gary L.; and Kerr, David L., 3,657,369.
- Driscoll, Gary L., 3,671,572.
- Duling, Irl N.; Schneider, Abraham; and Driscoll, Gary L., 3,639,351.
- Duling, Irl N.; Schneider, Abraham; and Moore, Robert E., 3,639,362.
- Duling, Irl N.; Glazier, Frederick P.; Gates, David S.; and Moore, Robert E., 3,645,902.
- Duling, Irl N.; Gates, David S.; Moore, Robert E.; and Glazier, Frederick P. (said Duling, said Gates and said Moore assors. to), 3,648,531.
- Duling, Irl N.; and Merges, John C., Jr., 3,665,068.
- Duling, Irl N.; Driscoll, Gary L.; and Moore, Robert E., 3,692,750.
- Elitz, Robert W., 3,645,847.
- Felton, George F., Jr., 3,680,356.
- Foulds, George, 3,651,136.
- Griffith, John O., III; William, Edward S.; and Reiland, William H., Jr., 3,694,363.
- Hansel, William B., 3,636,976.
- Hedge, John A., 3,668,267.
- Hoffman, David M., 3,660,455.
- Hoffman, David M., 3,692,814.
- Hollstein, Elmer J., 3,632,856.
- Hollstein, Elmer J., 3,681,384.
- Hollstein, Elmer J.; and Scott, Kenneth A., 3,681,387.
- Jolly, Samuel E., 3,661,981.
- Kirk, Merritt C., Jr., 3,673,078.
- Kirk, Merritt C., Jr.; and Dobson, Ernest W., 3,647,679.
- Kirk, Merritt C., Jr., 3,691,063.
- Kirsch, Francis W.; Potts, John D.; and Barmby, David S., 3,655,813.
- Kirsch, Francis William; Barmby, David S.; and Potts, John D., 3,706,814.
- Kohn, Edward M.; and Recchuitte, Alexander D., 3,632,426.
- Kohn, Edward M.; and Recchuitte, Alexander D., 3,653,958.
- Lyons, James E., 3,641,174.
- Lyons, James E., 3,647,896.
- Mason, Charley Mack, 3,672,175.
- Mason, Ronald F.; and Keim, Wilhelm, 3,636,091.
- Mc Nerney, Alfred J., 3,649,680.
- McNeal, Donald A.; and Dearry, Paul A., 3,665,954.
- McNelis, Edward J.; and Cherry, Wesley R., 3,650,907.
- Merges, John C., Jr.; and Ware, Richard E., 3,667,979.
- Mills, Ivor W.; Dimeler, Glenn R.; Atkinson, William A., Jr.; and Hoffman, James P., 3,654,127.
- Mills, Ivor W.; and Dimeler, Glenn R., 3,681,233.
- Mills, Ivor W.; Dimeler, Glenn R.; and Kirk, Merritt C., Jr., 3,681,279.
- Mills, Ivor W.; Dimeler, Glenn R.; Kirk, Merritt C., Jr.; and Boyer, Jackson S., 3,699,071.
- Mills, Ivor W.; Dimeler, Glenn R.; and Kirk, Merritt C., Jr., 3,706,653.
- Moore, Robert E.; and Janoski, Edward J., 3,641,167.
- Moore, Robert E., 3,646,095.
- Moore, Robert E., 3,646,224.
- Moore, Robert E., 3,646,233.
- Moore, Robert E., 3,646,234.
- Moore, Robert E., 3,655,782.
- Moore, Robert E., 3,666,806.
- Moore, Robert E., 3,671,598.
- Oberdorfer, Paul E., Jr., 3,685,502.
- Parr, George E., 3,663,421.
- Pollock, Andre W., 3,679,563.
- Rennick, Leonard E., 3,674,831.
- Rhodes, Charles F., Jr., 3,698,237.
- Schneider, Abraham, 3,679,758.
- Schneider, Abraham, 3,707,570.
- Schneider, Abraham, 3,707,571.
- Schneider, Abraham, 3,707,572.
- Schneider, Abraham, 3,707,573.
- Scott, Kenneth A., 3,665,044.
- Scudder, Philmore M., 3,703,503.
- Seitzer, Walter H., 3,642,607.
- Seitzer, Walter H., 3,687,838.
- Shawhan, Elbert N., 3,648,165.
- Stearns, Richard S.; Duling, Irl N.; and Gates, David S., 3,676,521.
- Steinmetz, Ib; and Barmby, David S., 3,658,689.
- Thomas, Jeffery R.; and Steinmetz, Ib, 3,663,427.
- Thompson, Robert M., 3,692,743.
- Turner, John O., 3,653,832.

- Turner, John O., 3,697,603.
- Turner, John O., 3,705,196.
- Vanderwerff, William D.; and Peterson, Henry J., 3,637,830.
- Vanderwerff, William D., 3,646,123.
- Young, Einar T., 3,680,408.
- Young, Einar T., 3,705,596.
- Sun Oil Company (Delaware): *See—*
- Bennett, John D., 3,670,828.
- Bennett, John D., 3,696,624.
- Mason, Charley Mack, 3,681,028.
- Rhodes, Charles F., Jr., 3,633,615.
- Sun Oil Company of Pennsylvania: *See—*
- Hansel, William B., 3,631,880.
- Jolly, Samuel E.; Kohn, Edward M.; and Tench, John D., 3,681,117.
- Seitzer, Walter H., 3,697,415.
- Thompson, Sheldon L.; Kress, Rene F.; Olenzak, Albert T.; and Steinmetz, Ib, 3,666,657.
- Young, Einar T., 3,637,055.
- Sun Oil Company of Pennsylvania, mesne: *See—*
- Ware, Richard E.; and Merges, John C., Jr., 3,704,145.
- Sun Research and Development Company: *See—*
- Driscoll, Gary L., 3,707,582.
- Moore, Robert E., 3,671,599.
- Moore, Robert E., 3,671,600.
- Moore, Robert E., 3,707,576.
- Raymond, Richard L., 3,676,299.
- Sun, Shan C.; and Raygor, Paul O., to Westinghouse Electric Corporation. Signal transmitting system for extra high voltage transmission line. 3,678,339, 7-18-72, Cl. 317-58.000.
- Sun Shipbuilding & Dry Dock Company: *See—*
- Cantagallo, Raymond E.; and Lutz, Robert J., 3,699,870.
- Garber, Daniel C., 3,632,148.
- Sun, Theresa I.: *See—*
- Herd, Harold H.; and Sun, Theresa I., 3,647,456.
- Sun, Yung-Chung, to Dow Chemical Company. The. Process for dehydrating acetic acid. 3,677,023, 7-18-72, Cl. 62-58.000.
- Sun-Rype Products Ltd.: *See—*
- Coltart, Michael L.; and Paton, David, 3,667,967.
- Sunaga, Yasumasa: *See—*
- Doi, Yoshikazu; Kishikawa, Toshiro; and Sunaga, Yasumasa, 3,706,484.
- Sunamore, Takashi: *See—*
- Ishii, Masao; Sunamore, Takashi; and Kimura, Sadao, 3,652,478.
- Sunano, Naomasa: *See—*
- Sumi, Kiyoshi; and Sunano, Naomasa, 3,699,803.
- Sunbeam Business Equipment Co.: *See—*
- Tiger, Emil; Corman, Erskin G.; and Reick, Kenneth R., 3,637,304.
- Sunbeam Corporation: *See—*
- Bluestein, Bernard B., 3,675,449.
- Chambers, Worth L., 3,679,958.
- Duve, John P.; and Petry, Stanton H., 3,706,690.
- Gasparaitis, Bernardas, 3,632,981.
- Gronwick, Jerry P.; Illian, Douglas F.; and Westphal, Donald J., 3,691,660.
- Isnor, Russell S., 3,666,499.
- Jackson, Wilbur C.; and Beck, William P., 3,639,984.
- Jepson, Ivar; Morgan, John W.; and Richmond, James W., 3,699,282.
- Kirwan, Warren J.; and Bruning, Elmer E., 3,639,941.
- Nauheimer, Robert R.; and Khaja, Farees Uddin, 3,669,694.
- Scott, William H., 3,645,007.
- Unger, John J.; Augustine, Robert J.; and Khaja, Farees U., 3,682,089.
- Walter, John, 3,660,741.
- Waters, Robert S.; and Spohr, Albert S., 3,699,952.
- Sunbeam Plastics Corporation: *See—*
- Gach, Peter P., 3,679,085.
- Gach, Peter P.; and Leonard, Henry K., 3,685,676.
- Gach, Peter P., 3,705,662.
- Gach, Peter P., 3,706,401.
- Sund, Joseph Tat-Hin: *See—*
- Yamada, Yoshikazu; Sund, Joseph Tat-Hin; and Logue, Daniel R., 3,706,276.
- Sund-Borg Machines Corporation, mesne: *See—*
- Cyphers, Charles A., 3,656,382.
- Sundbeck, Bertil: *See—*
- Abramo, Aina Lisbeth; Bjorklund, Rolf; Borretzen, Bernt; Olsson, Knut Gunnar; and Sundbeck, Bertil, 3,660,501.
- Sundbeck, Edward H., to Monsanto Company. Apparatus for drawing thermos plastic filaments in a high temperature gas vortex. 3,694,872, 10-3-72, Cl. 28-71.300.
- Sundberg, Bertil J.; and Luksch, Andreas; deceased (by Johnson, David R.; executor), to Brunswick Corporation. Metal fibril compacts and methods and machines for making same. 3,632,027, 1-4-72, Cl. 72-148.
- Sundberg, Bertil J.; and Luksch, Andreas; deceased (by Johnson, David R.; executor), to Brunswick Corporation. Machines for making metal fibril compacts. 3,680,183, 8-1-72, Cl. 29-4.500.
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- Sundberg, Carl A., to AB Konsulterna for Industri Och Handel. Apparatus for frequency studies using punched cards or punched tapes. 3,653,058, 3-28-72, Cl. 346-17.
- Sundberg, Erik G., to Aktiebolaget Tudor. Multicell storage battery. 3,650,833, 3-21-72, Cl. 136-6.
- Sundberg, Erik Gustav, to Aktiebolaget Tudor. Sheath for lead-acid storage battery. 3,694,265, 9-26-72, Cl. 136-63.000.
- Sundberg, Jack G.: *See—*
- Cygnor, John E.; and Sundberg, Jack G., 3,650,642.
- Sundberg, Jack G., to Chandler Evans Inc. Cam actuation system for variable displacement vane pump. 3,642,387, 2-15-72, Cl. 418-16.
- Sundberg, Mauritz R. G.: *See—*
- Carlsson, Bengt; and Sundberg, Mauritz R. G., 3,692,612.
- Carlsson, Bengt J.; and Sundberg, Mauritz R. G., 3,650,203.
- Sundberg, Nils O. Self-loading power driven transporting vehicles. 3,685,675, 8-22-72, Cl. 214-501.000.
- Sundberg, Robert C.; Carlson, William; and Wood, Lampkin H., to Suisher, Jno H., & Son. Cigar handling apparatus. 3,636,958, 1-25-72, Cl. 131-82.
- Sundberg, Ulf Hjalmar. Forest harvester. 3,638,693, 2-1-72, Cl. 144-3.
- Sundberg, Yngve, to Allmanna Svenska Elektriska Aktiebolaget. Means for regulating the flow-rate of melt from a container. 3,706,399, 12-19-72, Cl. 222-56.000.
- Sundblom, Leif J.; and Ollivier, Louis A., to Veriflo Corporation. Ventilator. 3,669,108, 6-13-72, Cl. 128-145.8.
- Sundby, Bjorn; and Wixon, Harold Eugene, to Colgate-Palmolive Company. Wash cycle softener. 3,697,423, 10-10-72, Cl. 252-8.800.
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- Sundby, Gustav B., to Rockwell Manufacturing Company. Resilient railway car trunk. 3,646,893, 3-7-72, Cl. 105-182.
- Sunde, Milton L.: *See—*
- De Luca, Hector F.; and Sunde, Milton L., 3,639,596.
- Sundelin, Allen O. Boat stabilizer-sailing ring. 3,696,772, 10-10-72, Cl. 114-39.000.
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- Swearingen, Judson S.; and Sunder, Sham, 3,690,114.
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- Unger, Robert W.; and Sunderman, Wallace H., 3,696,507.
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- Sundin, Anders Erik, 3,672,159.
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- Holmes, Lloyd H.; and Sundland, William D., 3,678,810.
- Sunds Aktiebolag: *See—*
- Carlsson, Stig Martin, 3,653,654.
- Engstrom, Hans-Erik, 3,668,063.
- Pettersson, Bengt Edvard, 3,677,040.
- Schleinkofer, Rudi William, 3,703,435.
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- Erikson, Carl F., 3,661,050.
- Fair, Donald G.; Baeverstad, Harold L.; and Fisher, William G., 3,668,653.
- Lichtfuss, Gerhardt E., 3,662,550.
- Nyman, Bengt E., 3,665,788.
- Pollman, Frederic W.; Frandsen, Lee R.; and Throckmorton, Charles D., Sr., 3,690,793.
- Pollman, Frederic W., 3,697,200.
- Reynolds, Richard W., 3,660,977.
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- Bateman, Charles Donald, 3,654,806.
 Brooks, Herman H., 3,639,850.
 Corey, Victor B., 3,677,086.
 Corey, Victor B., 3,678,746.
 Kirschner, Robert K., 3,636,321.
 Thompson, Burton J., 3,678,374.
 Sundstrand Data Control, Inc., *mesne*: *See*—
 Hugli, Hans W.; and Siegel, Vernon H., 3,651,353.
 Jacobs, Earl D., 3,702,073.
 Paros, Jerome M., 3,664,237.
 Siegel, Vernon H., 3,673,443.
 Sundstrand-Engelberg Inc.: *See*—
 Schaller, Robert L., 3,691,698.
 Sundstrom, Roy N.: *See*—
 Bustraan, Daniel J.; Gossie, Mijo A.; Sundstrom, Roy N.; and Wisner, William R., 3,690,527.
 Sung, Albert Y. Foldable article of furniture. 3,692,358, 9-19-72, Cl. 297-159.000.
 Sung, Fu-Tien, to Grove Manufacturing Company. Crane boom. 3,690,742, 9-12-72, Cl. 308-3.00r.
 Sung, Fu-Tien, to Kidde, Walter, & Company, Inc., *mesne*. Multi-section hydraulic ram. 3,696,712, 10-10-72, Cl. 92-52.000.
 Sung, Rodney L.; Dille, Kenneth L.; and Newman, Stanley R., to Texaco Inc. Mixtures of alkoxylated diphenyl monohalo phosphates phenyl, dihalo phosphates, and triphenyl phosphates as motor fuel additives. 3,658,497, 4-25-72, Cl. 44-69.
 Sung, Thomas. Circularly sweeping toothbrush. 3,702,487, 11-14-72, Cl. 15-22.00r.
 Sunkist Growers, Inc.: *See*—
 Riddington, Fred W., 3,641,930.
 Ross, John M.; White, Warren V.; and Wortman, Robert R., 3,640,366.
 Ross, John M.; and White, Warren V., 3,651,922.
 Ross, John M.; and Smith, Ronald T., 3,690,092.
 Swisher, Horton E., 3,647,476.
 Sunline, Inc.: *See*—
 Connors, Robert E., 3,633,734.
 Sunn, George M.: *See*—
 Witt, Allan E.; and Sunn, George M., 3,694,669.
 Sunnen, Jean A. F.; and Schoumaker, Henry R. P. J., to La Soudure Electrique, Precedes Arcos. High temperature heating. 3,660,630, 5-2-72, Cl. 219-76.
 Sunnen, Joseph. Applicator for dispensing substances. 3,656,482, 4-18-72, Cl. 128-261.
 Sunnergren, Carl E., to Bethlehem Steel Corporation. Method of making calcined minerals with reduced sulfur content. 3,633,894, 1-11-72, Cl. 263-53.
 Sunners, Brian: *See*—
 Greenstein, Bernard; Langston, Perry R., Jr.; Narken, Bernt; and Sunners, Brian, 3,663,194.
 Hoogendorn, Helen M.; Liberman, Herbert E.; Narken, Bernt; and Sunners, Brian, 3,639,976.
 Hoogendorn, Helen M.; Narken, Bernt; Roeder, Paul J.; and Sunners, Brian, 3,678,211.
 Maissel, Leon I.; Narken, Bernt; and Sunners, Brian, 3,650,737.
 Sunseri, Ronald H., to Copolymer Rubber & Chemical Corporation. Interpolymerization of a mixture of monoolefins and a polyene in the presence of a base and a halogenated compound. 3,645,993, 2-29-72, Cl. 260-80.78.
 Sunstrand-Engelberg Inc.: *See*—
 Schaller, Robert L., 3,685,212.
 Sunter Limited: *See*—
 Marten, John Anthony; and Gee, Bernard Arthur, 3,693,422.
 Marten, John Anthony; and Gene, Bernard Arthur, 3,702,075.
 Marten, John Anthony; and Gee, Bernard Arthur, 3,704,624.
 Suntop, Morris A.; and Randmere, Uno, to Stromberg-Carlson Corporation. Selective ringing in subscriber carrier telephone system. 3,649,778, 3-14-72, Cl. 179-17.
 Suntop, Morris A.; and Randmere, Uno, to Stromberg-Carlson Corporation. Two-party automatic number identification in subscriber carrier telephone system. 3,673,330, 6-27-72, Cl. 179-2.50r.
 Suomen Sokeri Osakeyho (Finnish Sugar Company): *See*—
 Melaja, Asko J., 3,692,582.
 Suominen, Heikki S. Bag handle. 3,659,776, 5-2-72, Cl. 229-54.
 Suozzo, John; and Savino, Henry C., to Westinghouse Electric Corporation. Available-car elevator system. 3,648,805, 3-14-72, Cl. 187-29.
 Suozzo, Leonard S. Spring type mechanical shock and sway arrestor. 3,637,173, 1-25-72, Cl. 248-54.
 Suozzo, Leonard S. Thermo-mechanical multi-function support device. 3,637,176, 1-25-72, Cl. 248-59.
 Suozzo, Leonard S. Spring support device. 3,659,834, 5-2-72, Cl. 267-70.
 Suozzo, Leonard S. Mechanical shock and sway arrestor. 3,669,391, 6-13-72, Cl. 248-54.00r.
 Suozzo, Leonard S. Thermo-electromechanical multi-function support device. 3,695,564, 10-3-72, Cl. 248-59.000.
 Super Caster Corporation: *See*—
 Clossa, Jose, 3,641,621.
 Clossa, Jose, 3,675,269.
 Super Laundry Machinery Company, Inc.: *See*—
 Behn, Sheldon P., 3,634,956.
 Patton, Charles W., Jr., 3,642,270.
 Super Mold Corporation: *See*—
 Hall, Walter Dennis; and Charles, Malcolm Jean, 3,635,610.
 Kiedrowski, Hugh P.; and Eriksen, Merrill K., 3,690,010.
 Super Tire Engineering Company: *See*—
 Ross, Donald H., 3,667,882.
 Super-Cut, Inc.: *See*—
 Metzger, Leopold H.; and Miller, Harold C., 3,664,068.
 Miller, Harold C., 3,663,061.
 Superior Aluminum Products, Inc.: *See*—
 Francis, Thomas V.; and Borchers, Edward L., 3,707,276.
 Superior Bands, Inc.: *See*—
 Thompson, N. H., Jr., 3,631,733.
 Superior Concrete Accessories, Inc.: *See*—
 Eriksson, George J., 3,633,867.
 Eriksson, George J., 3,651,835.
 Eriksson, George J., 3,705,469.
 Superior Continental Corporation: *See*—
 Ance, Louis, 3,643,006.
 Krasin, Lester Q.; and Greene, Clifford E., 3,639,692.
 Roberts, Walter; Sherrill, Jimmie D.; Pusey, Brandon B.; and Wilkenloh, Frederic N., 3,643,007.
 Wolf, John E., 3,665,511.
 Superior Electric Company, The: *See*—
 Henderson, Paul D., 3,698,826.
 Loftus, Robert M., 3,665,782.
 Loyzim, Robert J., 3,665,284.
 Loyzim, Robert J., 3,684,934.
 Madsen, Elmer; and Rosshirt, Hermann, 3,638,028.
 Superior Graphite Company: *See*—
 Markel, Richard F., 3,684,446.
 Superior Industries, Inc.: *See*—
 Hess, Stanley C., 3,665,776.
 Superior Manufacturing Company: *See*—
 Dorn, Chester, 3,655,101.
 Superior Oil Company, The: *See*—
 Danaher, Harry C., 3,660,847.
 Superior Pipe Specialties Company: *See*—
 Fischer, Edward; and Trickey, William J., 3,684,179.
 Superior Plating Company: *See*—
 Raymond, Louis W.; and Gussack, Mark C., 3,691,029.
 Superior Strut & Hanger Company: *See*—
 Biggane, John D., 3,650,499.
 Superior Tabbies Incorporated: *See*—
 Cunningham, Walter F., 3,691,662.
 Superior Tobacco Machine & Sheet Metal, Inc.: *See*—
 Smith, Robert A., Jr., 3,706,314.
 Superior Tube Company: *See*—
 Bibighaus, Fred W., 3,683,661.
 Russell, Richard E., 3,688,540.
 Superwick, Inc., *mesne*: *See*—
 Doerfling, Ralph G., 3,645,503.
 Supfina, Wiecek & Hantzen: *See*—
 Schmidt, Thomas, 3,654,737.
 SUPFINA, Wiecek & Hantzen: *See*—
 Wiecek, Karl, 3,671,093.
 Supla Etablissement: *See*—
 Uhrig, Wilhelm, 3,698,064.
 Suppo, Jose: *See*—
 Gaffard, Jean Paul; Glangeaud, Yves; and Suppo, Jose, 3,632,868.
 Supreme Equipment & Systems Corporation: *See*—
 Castaldi, John A., 3,690,479.
 Frederick, Martin B.; and Posa, John P., 3,638,800.
 Frederick, Martin B.; and Sobel, David, 3,650,590.
 Suprun, George, to Lorain Products Corporation. Tool for staking a terminal pin to a terminal. 3,636,612, 1-25-72, Cl. 29-203.
 Suprun, Sergei Alexandrovich: *See*—
 Pokhodnya, Igor Konstantinovich; Alter, Vladimir Fedorovich; Kaplenko, Igor Prokofievich; Suprun, Sergei Alexandrovich; Suptel, Alexandr Mikhailovich; Shlepakov, Mikhailovich; and Shlepakov, Valery Nikolaevich, 3,688,376.
 Suptel, Alexandr Mikhailovich: *See*—
 Pokhodnya, Igor Konstantinovich; Alter, Vladimir Fedorovich; Kaplenko, Igor Prokofievich; Suprun, Sergei Alexandrovich; Suptel, Alexandr Mikhailovich; Shlepakov, Mikhailovich; and Shlepakov, Valery Nikolaevich, 3,688,376.
 Sur, Ferdinand F. Combined, jack, and clamp, sure, clamp. 3,697,046, 10-10-72, Cl. 254-111.000.
 Sura, James J., to Union Carbon Corporation. Polyepoxide compositions containing dicyandiamide and an iodonium, phosphonium, or sulfonium salt. 3,691,133, 9-12-72, Cl. 260-47.00c.
 Surak, John G.: *See*—
 Isaac, George L.; Kingsbury, Richard F.; and Surak, John G., 3,701,021.
 Surash, John J.; Giorgianni, Edward J.; and Hotter, Lynn R., to Eastman Kodak Company. Methods and materials for replenishment of developers for color photographic films. 3,647,461, 3-7-72, Cl. 96-66.

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 Surbrook, Louis M., to Linotype and Machinery Limited. Printing press folders. 3,685,820, 8-22-72, Cl. 270-76.000.
 Surca, Gheorghe: *See*—
 Costa, Eugen; Covaci, Ioan; and Surca, Gheorghe, 3,636,632.
 Sureau, Robert F. M.; Kremer, Gilbert V. H.; and Dupre, Victor M., to Ugine Kuhlmann. Methinic dyestuffs and their methods of preparation. 3,634,414, 1-11-72, Cl. 260-240.
 Sureau, Robert Frederic Michel: *See*—
 Mingasson, Georges Raymond Henry; Domergue, Annick Marthe Suzanne Simone; and Sureau, Robert Frederic Michel, 3,642,799.
 Sureau, Robert Frederic Michel; Alicot, Marie-Josephe Jeanne; and Dupre, Victor Marie, to Ugine Kuhlmann. 6-Hydroxy-1,3-dialkyl benzotriazolium derivatives. 3,644,389, 2-22-72, Cl. 260-299.
 Surendranath, Jack G.: *See*—
 Orth, Richard D.; Surendranath, Jack G.; and Chakravarti, Dip-timan, 3,682,790.
 Surerus, Robert A. Thermoformed plastic container. 3,655,111, 4-11-72, Cl. 229-7.
 Surety Manufacturing Co., Inc.: *See*—
 Lyman, Stuart, 3,645,946.
 Surface Activation Corporation: *See*—
 Fydelor, Peter John; and Lovell, Keith Victor, 3,687,832.
 Surface Technology Corporation: *See*—
 Rausch, John J.; and Van Thine, Ray J., 3,644,153.
 Rausch, John J.; and Van Thine, Ray J., 3,701,655.
 Van Thine, Ray J.; and Rausch, John J., 3,642,546.
 Van Thine, Ray J.; and Rausch, John J., 3,674,571.
 Van Thine, Ray J.; and Rausch, John J., 3,674,572.
 Van Thine, Ray J.; and Rausch, John J., 3,674,573.
 Van Thine, Ray J.; and Rausch, John J., 3,674,574.
 Van Thine, Ray J.; and Rausch, John J., 3,677,832.
 Surface Technology, Inc.: *See*—
 Robertson, David D., 3,672,045.
 Surgent, John G.: *See*—
 Dailey, Jack R.; Kuntzleman, Harry C.; and Surgent, John G., 3,706,978.
 Surgical Design Corporation: *See*—
 Banko, Anton, 3,659,607.
 Surgical Dynamics Inc.: *See*—
 Aymar, Julian Robert, 3,645,495.
 Surinx, Hubertus Joannes Josephus. Thermocouple lance. 3,643,509, 2-22-72, Cl. 73-354.
 Surko, Walter E., Jr.; and Elliott, James W., to Emhart Corporation. Lock core. 3,667,264, 6-6-72, Cl. 70-369.
 Surland, Aage, to Frye Industries Inc., *mesne*. Printing process employing moisture. 3,661,619, 5-9-72, Cl. 117-62.2.
 Surlatta, Zygmunt M.: *See*—
 Hern, John F.; Surlatta, Zygmunt M.; and Michaluk, Bob D., 3,634,893.
 Surls, Joseph P.: *See*—
 Tsveter, Elmer C.; and Surls, Joseph P., 3,635,671.
 Surls, Joseph P.; Bauer, David L.; and West, Ben F., to Dow Chemical Company, The. Process for the preparation of rutile titanium dioxide needles. 3,703,357, 11-21-72, Cl. 23-202.00r.
 Surls, Joseph P., Jr.: *See*—
 Olson, Robert S.; and Surls, Joseph P., Jr., 3,669,649.
 Surman, Albert A. Theft-deterrent merchandising display apparatus. 3,695,452, 10-3-72, Cl. 211-4.000.
 Surmatis, Joseph Donald, to Hoffmann-La Roche Inc. Novel diketone coloring agents. 3,651,145, 3-21-72, Cl. 260-586.
 Surmatis, Joseph Donald; and Walser, Armin, to Hoffmann-La Roche Inc. Mono-oxo carotenes. 3,661,997, 5-9-72, Cl. 260-586.
 Surmatis, Joseph Donald, to Hoffmann-La Roche Inc. Novel diketone coloring agents. 3,694,491, 9-26-72, Cl. 260-488.00r.
 Surov, Mikhail Andreevich: *See*—
 Kalner, Veniamin Davidovich; Orlovsky, Anatoly Georgievich; Ostrovsky, Grigory Arkadievich; Ryskind, Alexandr Moiseevich; Semenov, Viktor Nikolaevich; Stepin, Anatoly Loginovich; Surov, Mikhail Andreevich; Shepelyakovsky, Konstantin Zakharovich; and Shklyaov, Isaak Nakhimovich, 3,696,225.
 Surowiecki, Benjamin M., Jr.: *See*—
 Rao, Velliyur Nott Padmanabha; Scott, John A.; and Surowiecki, Benjamin M., Jr., 3,674,827.
 Surpluss, Susan R., to Johnson & Johnson. Protective shield for holding sanitary napkins and method of making. 3,654,927, 4-11-72, Cl. 128-290.
 Surprenant, Edgar L.; Rieth, Harold F.; and Douglas, Clayton H. Automatic control system for radioactive regional ventilation studies. 3,666,955, 5-30-72, Cl. 250-106.
 Surprenant, Inc.: *See*—
 Copp, Albert R., 3,654,381.
 Surprenant, Kenneth S.; and Gerard, Raymond T., to Dow Chemical Company, The. Vapor degreasing apparatus with falling film heat exchange surface. 3,632,480, 1-4-72, Cl. 202-169.

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 Surprenant, Norman F.: *See*—
 Brown, Perry H.; Tremblay, Maurice H.; and Surprenant, Norman F., 3,697,238.
 Roberts, John A.; and Surprenant, Norman F., 3,645,298.
 Surprise, Chester P.: *See*—
 Leonard, Robert G.; and Surprise, Chester P., 3,661,009.
 Surprise, Jon M.: *See*—
 Apicella, Anthony M., Jr.; and Surprise, Jon M., 3,701,124.
 Surty, Rohinton J.: *See*—
 Dushkes, Sherman Z.; and Surty, Rohinton J., 3,670,944.
 Survival Technology, Inc.: *See*—
 Sarnoff, Stanley J., 3,633,567.
 Sury, Ernst: *See*—
 Rossi, Alberto; and Sury, Ernst, 3,647,791.
 Sury, Francis P. Stopper plug valve for hot metal ladles. 3,651,825, 3-28-72, Cl. 137-240.
 Suryanarayana, Yelagondahally S.; and Reid, Luther J., Jr., to Ciba-Geigy Corporation. Production of cyanuric chloride. 3,707,544, 12-26-72, Cl. 260-248.00c.
 Sus, Oskar; Uhlig, Fritz; and Schafer, Heinz, to Kalle Aktiengesellschaft. Naphthoquinone diazide sulfonic acid ester. 3,640,992, 2-8-72, Cl. 260-141.
 Susa, Ermanno; and Mayr, Adolfo, to Goodrich, B. F. Company, The. Polymerization catalysts. 3,634,384, 1-11-72, Cl. 260-94.9.
 Susami, Kozo; Minami, Keichi; Tabata, Masaaki; Kojima, Teiryō; and Yunoki, Zyuji, to Toray Industries Inc. Spun yarn and a method for manufacturing the same. 3,660,973, 5-9-72, Cl. 57-139.
 Sussillon, Michel: *See*—
 Bost, Jose; Hollard, Daniel; Peccoud, Michel; and Sussillon, Michel, 3,644,738.
 Susdorf, Robert A.; and Armstrong, Fredrick J., to General Electric Company. Brush mechanism. 3,654,504, 4-4-72, Cl. 310-239.
 Susewitz, Michael Bernard. Fragrance emitting article for artificial Christmas trees. 3,698,991, 10-17-72, Cl. 161-14.
 Sussey, Peter E.: *See*—
 Teague, Walter Dorwin, Jr.; Montalbano, Anthony Philip; Oakes, Andrew A.; Osborne, Keith; and Sussey, Peter E., 3,668,784.
 Sushkin, Vyacheslav Petrovich: *See*—
 Povolotsky, Aron Markovich; Sushkin, Vyacheslav Petrovich; Fateichev, Anatoly Semenovich; and Gavrilov, Nikolai Vasilievich, 3,703,025.
 Sushkov, Alexandr Fedorovich: *See*—
 Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leenex, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreevich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.
 Susi, Peter Vincent: *See*—
 Song, John; Hoffman, Joseph Adrian; and Susi, Peter Vincent, 3,649,667.
 Susi, Peter Vincent, to American Cyanamid Company. Quinonediimmonium salts. 3,637,769, 1-25-72, Cl. 260-396.
 Susi, Peter Vincent; and Weston, Norma Ann, to American Cyanamid Company. N,N,N',N'-tetrakis-(p-diacyclic hydrocarbyl-aminophenyl)-p-arylenediamine. 3,670,025, 6-13-72, Cl. 260-576.000.
 Susi, Peter Vincent. Stabilization of polymers. 3,706,701, 12-19-72, Cl. 260-45.85v.
 Susin, Victor G., to Young Rubber Company. Injection molding apparatus. 3,661,487, 5-9-72, Cl. 18-30.
 Suska, Charles R., to Stanley Works, The. Hinge exhibitor. 3,650,050, 3-21-72, Cl. 35-51.
 Susor, William C.: *See*—
 Sandusky, Charles F.; and Susor, William C., 3,662,846.
 Susquehanna Corporation, The: *See*—
 Bartick, Herbert A., 3,652,349.
 Evans, Robert W.; Grimm, Richard C.; and Olstein, Myron A., 3,678,857.
 Godfrey, John N., 3,636,881.
 Kingman, Edward F., 3,632,209.
 Kreuzer, John A.; and Thompson, David E., 3,699,891.
 Macri, Bruno J., 3,646,174.
 McCarthy, James F., 3,660,121.
 McCarthy, James F., 3,660,122.
 Perri, Joseph, 3,675,304.
 Richardson, Charles Delton; Corsentino, Robert John, Jr.; and Gould, Oliver Maxwell, 3,658,307.
 Sladek, Theodore E.; Palmer, John E.; and Steele, Michael F., 3,638,429.
 Steele, Michael F.; and Yates, John S., 3,696,488.
 Steele, Michael F., 3,696,686.
 Walker, Jimmy Aubrey, 3,655,289.

- Wallace, Jacob L., Jr., 3,699,255.
- Suss, Manfred, to Kinag GmbH. Cinematographic broad screen recording and projection method and a film cartridge for carrying out the method. 3,687,532, 8-29-72, Cl. 352-78.00r.
- Sussenguth, Edward H.: See—
Arnold, Richard F.; Dauber, Philip S.; and Sussenguth, Edward H., 3,675,215.
- Susset, Jacques G.; and Nagler, Robert, to Canadian Patents and Development Limited. Implantable vesical stimulator. 3,667,477, 6-6-72, Cl. 128-419.00e.
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Shoemaker, Arthur H.; and Sussman, Milton H., 3,671,099.
- Sussman, Philip S.: See—
Andrews, Francis W.; and Sussman, Philip S., 3,633,541.
Andrews, Francis W.; Sussman, Philip S.; and Barlow, Sidney D., 3,678,521.
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- Sussmeyer, Louis. Sealing and guiding device for a shaft driven in rotation. 3,667,766, 6-6-72, Cl. 277-22.000.
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Goelz, Horst; Suter, Hubert; Fust, Juergen; and Himmele, Walter, 3,635,968.
Nohe, Heinz; and Suter, Hubert, 3,684,668.
Poehler, Guenter; Suter, Hubert; Wirth, Friedrich; and Walter, Johann Heinrich, 3,686,229.
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Anderson, Howard H.; Moyer, Rudolph H.; Sibbett, Donald J.; and Sutherland, David C., 3,640,624.
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Pecze, Andras; Suto, Laszlo; and Banoczy, Zoltan, 3,651,715.
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Scherban, Alexandr Nazarevich; Furman, Neonil Izrailevich; Sotnichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Yuri Ivanovich; Sutormin, Jury Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chaschinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna, 3,678,489.
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Sedivy, George F.; and Sutterer, William F., 3,632,211.
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Grabill, Paul J., Jr.; and Suttkus, David J., 3,696,615.
- Suttle, Theodore: See—
Morgan, Harvey E.; Suttle, Theodore; and Schenck, Jackson C., 3,646,984.
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Hickner, George B.; Howard, Donald W.; and Suttle, Ward C., 3,674,318.
- Sutton, Alan: See—
Fitton, John Talbot; and Sutton, Alan, 3,685,166.
- Sutton, Blaine M.: See—
McGusty, Elizabeth R.; Sutton, Blaine M.; and Walz, Donald T., 3,676,554.
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Dickey, Clyde W.; and Bland, Ray A., 3,678,720.
Huertgen, Helmut B., 3,653,247.
Roesch, Christian, 3,701,274.
Thompson, Elbert Gordon; and Alters, Max F., 3,638,326.
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Longland, John R.; Williams, Roy M., Jr.; Sutton, Howard D.; and Scopelite, Thomas M., 3,641,324.
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Briskin, Theodore; and Ward, Geoffrey R., 3,640,285.
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Briskin, Theodore S.; and Ward, Geoffrey R., 3,643,668.
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Arvay, Frank Joseph; Frieber, George; Lechleider, Joseph William; and Sutton, Robert Anderson, 3,678,379.
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Stapleton, Brian P.; and Sutton, Robert W., 3,662,392.
- Sutton, Thomas J., to Oakland Community College. Portable study carrel. 3,698,104, 10-17-72, Cl. 35-60.000.
- Sutton, Trevor G.: See—
Schaffer, David J.; and Sutton, Trevor G., 3,696,895.
- Sutton, William T.: See—
Steinberg, David B.; and Sutton, William T., 3,660,706.
- Sutures, Inc.: See—
Kurtz, Leonard D., 3,642,003.
Kurtz, Leonard D., 3,665,927.
Kurtz, Leonard D., 3,688,317.
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Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itsikson, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorievich, 3,705,793.
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Fredrikson, Bengt; Larsen, Stein; and Suvanto, Erkki, 3,685,570.
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Boesten, Wilhelmus H. J.; and Suwerkropp, Geertrudes H., 3,683,002.
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Gertsen, Petr Petrovich; and Suverneva, Taisia Georgievna, 3,695,828.
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Kato, Tatsuya; Chikatsu, Nagoya; Suwada, Ataru; and Ohno, Satoyoshi, 3,658,766.
- Suyama, Shiyozo: See—
Kawaguchi, Shigenori; Toi, Yoshioki; and Suyama, Shiyozo, 3,688,548.
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- Suzue, Seigo: See—
Irikura, Tsutomu; and Suzue, Seigo, 3,644,348.
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keiichi; Shinoda, Hirotaka; and Hasegawa, Yoshinori, 3,679,730.
Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keiichi; and Shinada, Hirotaka, 3,697,577.
- Suzui, Masaaki: See—
Konishi, Kozo; Suzui, Masaaki; Otake, Michio; and Maeda, Tatsu, 3,699,112.
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Miyata, Akira; Kubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, 3,689,381.
Miyata, Akira; Tomita, Chikayoshi; Suzuki, Akio; Okubo, Hideyo; and Nagakumi, Masahiko, 3,699,012.
Miyata, Akira; Okubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, 3,701,677.
Miyata, Akira; Ohkubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, 3,699,013.
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Kusakabe, Takeshi; and Suzuki, Akira, 3,656,870.
Sumiyoshi, Masaharu; Suzuki, Akira; Kawabata, Minoru; and Sakurai, Shizuki, 3,689,120.
Tomita, Tamaki; and Suzuki, Akira, 3,632,232.
Tomita, Tamaki; and Suzuki, Akira, 3,673,886.
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Tsuzuki, Akira; and Suzuki, Choken, 3,673,789.
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Fa, Charles H.; and Suzuki, Clarence K., 3,690,968.
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- Suzuki, Eizo: See—
Okamoto, Kazuo; Eguchi, Naoki; Sakao, Nasuo; Honda, Ichiro; and Suzuki, Eizo, 3,647,571.
- Suzuki, Goichi: See—
Enomoto, Sigeharu; Sato, Katsunobu; and Suzuki, Goichi, 3,704,302.
- Suzuki, Hajime: See—
Ono, Hiroshi; Watanabe, Kotaro; and Suzuki, Hajime, 3,649,594.
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Henmi, Yoshinori; Suzuki, Hideaki; and Kamiya, Tadao, 3,632,320.
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Kondo, Eiroku; Usuda, Hirotaka; Suzuki, Hidemasa; and Furuya, Tuneso, 3,647,981.
- Suzuki, Hideo: See—
Kobayashi, Kanjiro; Uyama, Takashi; Suzuki, Hideo; and Shirai, Hiroshi, 3,660,499.
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Arimura, Tohru; Kamata, Masamoto; Saito, Morio; Suzuki, Hiromu; and Iguchi, Masakazu, 3,677,045.
- Suzuki, Hiroshi: See—
Kawamura, Sukeyoshi; Kondo, Kishichiro; Ito, Kenji; Suzuki, Hiroshi; Yasui, Eizo; and Kobayashi, Toshiro, 3,652,635.
Nakajima, Akira; and Suzuki, Hiroshi, 3,697,218.
Nakanome, Iyoiko; Takeya, Kenji; and Suzuki, Hiroshi, 3,632,543.
Ogata, Masatzugu; Sato, Mikio; Watanabe, Yutaka; and Suzuki, Hiroshi, 3,637,572.
Tsukui, Michio; Watanabe, Yutaka; Suzuki, Hiroshi; Kitamura, Masahiro; and Mori, Yoshisuke, 3,658,750.
Wada, Ryuji; Suzuki, Hiroshi; and Nakato, Masuo, 3,669,514.
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- Kikuchi, Makoto; and Suzuki, Isao, 3,703,100.
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- Suzuki, Kenkichi: *See—*
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- Shimizu, Keisuke; and Suzuki, Kiichi, 3,663,355.
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- Hasegawa, Haruo; Sugiyama, Kimroku; Suzuki, Kikuji; and Hirano, Kunio, 3,672,888.
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- Kobayashi, Seihin; Torii, Michihiro; and Suzuki, Koichiro, 3,675,223.
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- Uchida, Kozo; Nakaya, Naohisa; and Suzuki, Koji, 3,633,066.
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- Kawabe, Tsuneo; Suzuki, Kouichi; and Miyake, Hirota, 3,689,121.
- Suzuki, Kozaburo: *See—*
- Kawakami, Yohei; Seki, Toshio; and Suzuki, Kozaburo, 3,682,992.
- Seki, Toshio; Suzuki, Kozaburo; and Matsuzaki, Takashi, 3,647,746.
- Suzuki, Kunimoto: *See—*
- Matsushita, Toru; Suzuki, Kunimoto; and Hasegawa, Shoji, 3,647,531.
- Matsushita, Toru; Suzuki, Kunimoto; and Hasegawa, Shoji, 3,705,054.
- Suzuki, Masakatsu: *See—*
- Mitamura, Rakuzo; Yamaya, Masatoshi; and Suzuki, Masakatsu, 3,661,419.
- Suzuki, Masao: *See—*
- Suzuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; and Suzuki, Masao, 3,677,857.
- Suzuki, Masaru: *See—*
- Nakao, Yoshio; Kikuchi, Masakazu; Suzuki, Masaru; and Doi, Muneharu, 3,654,078.
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- Suzuki Metal Industry Co., Ltd.: *See—*
- Nakagawa, Akira; and Inoue, Kazumasa, 3,666,572.
- Okamoto, Kazuo; Eguchi, Naoki; Sakao, Nasuo; Honda, Ichiro; and Suzuki, Eizo, 3,647,571.
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- Kawai, Atsushi; Katsuyama, Takehiro; Suzuki, Migaku; and Takimoto, Hisao, 3,697,637.
- Suzuki, Mikio: *See—*
- Nagamura, Masao; Seya, Hiromichi; Iseki, Takaya; and Suzuki, Mikio, 3,645,700.
- Suzuki, Minoru: *See—*
- Sugahara, Takashi; Suzuki, Minoru; Fukunaga, Tadayuki; and Fukushima, Shozo, 3,640,069.
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- Kodera, Yoshihide; Kato, Jun; Shimada, Kazuo; Suzuki, Morio; Ohse, Hidetaka; Ohshima, Satoshi; and Kuri, Yasunori, 3,654,143.
- Tamura, Kiminori; Morozumi, Manami; Noda, Yutaka; Suzuki, Morio; and Yoshino, Hiroshi, 3,701,772.
- Suzuki, Motoyoshi: *See—*
- Arai, Hiroshi; Nakamura, Akira; Okamoto, Atutosi; Okumura, Shunji; Suzuki, Motoyoshi; and Sugiura, Akio, 3,690,735.
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- Umahashi, Minoru; Yamakawa, Hitoshi; and Suzuki, Motoyuki, 3,690,015.
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- Akashi, Goro; Fujiyama, Masaaki; Hirakawa, Takashi; and Suzuki, Osamu, 3,634,253.
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- Ozawa, Tokuji; Uyeda, Mikio; Hashimoto, Ryosuke; and Suzuki, Shigenori, 3,696,166.
- Suzuki, Shigeo: *See—*
- Kono, Toyoo; Wada, Sakae; Shiba, Motoharu; Matsuno, Takashi; Yamamoto, Akihiro; Ogawa, Haruki; Okazaki, Hiroshi; Suzuki, Shigeo; and Noto, Takao, 3,632,746.
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- Suzuki, Shigeru, to Kabushiki Kaisha Ricoh. Sheet-container and-feeding device. 3,635,468, 1-18-72, Cl. 271-61.
- Suzuki, Shigeru, to Ricoh Co., Ltd. Liquid level indicator instrument. 3,644,691, 2-22-72, Cl. 200-84.
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- Suzuki, Shigeru. Liquid-development type electrophotographic apparatus including paper drier means. 3,689,147, 9-5-72, Cl. 355-10.000.
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- Suzuki, Shigeto; Kilgren, Karl H.; and Tjoa, Giok H., to Chevron Research Company. Method of removing hydrogen sulfide from gaseous mixtures. 3,642,431, 2-15-72, Cl. 23-2.
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- Hara, Ei; and Suzuki, Shohachi, 3,671,164.
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- Abe, Isamu; Yashiro, Hideo; Sori, Naoyuki; Hatano, Sotaro; Katsumoto, Tomiyasu; and Suzuki, Tadao, 3,670,395.
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- Matsumaga, Kenji; Horiuchi, Michio; and Suzuki, Takao, 3,685,413.
- Suzuki, Takashi: *See—*
- Fukuda, Hideo; Suzuki, Takashi; Sumino, Yasuhiro; and Akiyama, Shunichi, 3,671,395.
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- Hamabe, Takeshi; and Suzuki, Takashi, 3,692,640.
- Matsumoto, Kazuya; and Suzuki, Takashi, 3,642,374.
- Takeda, Ikuo; Suzuki, Takashi; and Furukawa, Hikaru, 3,656,153.
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- Suzuki, Takashi, to Matsushita Electric Industrial Co. Ltd. Heat-sensitive sheet. 3,674,538, 7-4-72, Cl. 117-36.700.
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- Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara, Yoshiteru; and Asakura, Kouichi, 3,668,917.
- Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara, Yoshiteru; and Asakura, Kouichi, 3,703,093.
- Suzuki, Takeo: *See—*
- Tanaka, Katsunobu; and Suzuki, Takeo, 3,637,461.
- Tanaka, Katsunobu; and Suzuki, Takeo, 3,642,575.
- Tanaka, Katsunobu; and Suzuki, Takeo, 3,655,512.
- Suzuki, Taro: *See—*
- Kolbe, William H.; Sagady, Alexander J.; and Suzuki, Taro, 3,671,154.
- Suzuki, Tetsumi: *See—*
- Yamawaki, Takeshi; Usami, Masakatsu; Suzuki, Tetsumi; and Uematsu, Takao, 3,674,759.
- Suzuki, Toshi: *See—*
- Kinjo, Hisao; and Suzuki, Toshi, 3,651,279.
- Wada, Yoshiyo; Kinjo, Hisao; Suzuki, Toshi; and Akuwa, Fumio, 3,673,352.
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- Terai, Shiro; Sugiyama, Yoshihiko; Suzuki, Toshio; and Irie, Hiroshi, 3,666,520.
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- Suzuki, Yoshiaki: *See—*
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- Suzuki, Yoshio; Aono, Shunji; and Fukushima, Hideaki, to Sumitomo Chemical Company, Ltd. Certain thienyl aliphatic hydrocarbon amides. 3,666,774, 5-30-72, Cl. 260-332.20a.
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- Suzuki, Yoshitaka; Takenoue, Atsushi; and Kojima, Hideo. Chlorination process. 3,699,178, 10-17-72, Cl. 260-659.00a.
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Mine, Akihiko; Satomi, Takeo; Hino, Naganori; Kamoshita, Kat-suzo; Suzuki, Yoshitsugu; and Nakai, Shinji, 3,644,422.
Muramoto, Noboru; Saiga, Johan; and Suzuki, Yoshitsugu, 3,639,536.
- Suzuki, Yukio, to Mayashibara Company. Process for preparing vitamin B₂ glucoside. 3,669,835, 6-13-72, Cl. 195-28.00r.
- Suzuki, Yushin: See—
Nakamura, Hiroto; Doi, Ken-Ichi; Sato, Akira; and Suzuki, Yushin, 3,660,708.
- Suzuki, Yutaka: See—
Yasuda, Toshitaka; Katayama, Shiro; and Suzuki, Yutaka, 3,650,954.
- Suzuki, Zenjiro: See—
Okano, Hideo; and Suzuki, Zenjiro, 3,656,609.
- Suzuki, Zennosuke: See—
Morita, Ken-Ichi; Suzuki, Zennosuke; and Hirose, Hiromitsu, 3,678,093.
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Fujisaki, Yoshio; Suzuoki, Akira; and Ishibashi, Eiichi, 3,639,673.
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- Svaldi, Marvin A., to Marathon Oil Company. Use of diverting agents for injection well stimulation. 3,707,194, 12-26-72, Cl. 166-305.00r.
- Svanoe, Hans, to Struthers Scientific and International Corporation. Crystallization of potassium chloride from carnallite decomposition. 3,644,102, 2-22-72, Cl. 23-298.
- Svanstrom, Elis Kjell Ake, to Rederiaktiebolaget Nordstjernan. Process for the production of metal powder. 3,661,557, 5-9-72, Cl. 75-5.
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Eriksson, Axel Fredrik Valdemar; Svard, Per Olov; and Jurgens, Jorg, 3,646,195.
- Svardal, Per S.: See—
Bergum, Bernard C.; and Svardal, Per S., 3,647,586.
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Danko, Donald M.; and Svarovsky, James E., 3,664,179.
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Didek, Stanislav; Svec, Zdenek; and Pospisil, Frantisek, 3,672,144.
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- Svenska Akkumulator Aktiebolaget Jungner: See—
Falk, Sven Uno; and Alfelt, Lars-Goran, 3,640,772.
Melin, Ake Lennart, 3,657,013.
- Svenska Aktiebolaget Bromsregulator Malmö: See—
Larsson, Karl Bertil, 3,692,152.
- Svenska Cellulosa Aktiebolaget: See—
Andersson, Per-Erik; and Bergholm, Carl Arne, 3,675,707.
Nilsson, Marit Gunnel Matilda; Udden, Ruth Gunvor Anna Britt; Udden, Per Edward Carl; and Wennerblom, Bengt Axel, 3,654,929.
- Svenska Dataregister AB: See—
Englund, Gosta Roland; and Tice, Richard Reuben, 3,668,692.
Englund, Gosta Roland; Eriksson, Bjorn Sven Hilding; Mattsson, Mats Erik; and Lindelow, Claes-Goran, 3,700,863.
Lindelow, Claes-Goran, 3,673,388.
Mattsson, Mats Erik; and Lindelow, Claes-Goran, 3,672,566.
- Mattsson, Mats Erik; Eriksson, Bjorn Sven Hilding; and Lindelow, Claes-Goran, 3,674,199.
- Maxe, Sven-Erik, 3,697,954.
- Svenska Hymas Aktiebolag: See—
Sonerud, John Teodor, 3,645,021.
- Svenska Industrietablering Saktiebolaget: See—
Hasfjord, Morten Birger, 3,693,682.
- Svenska Interpur AB: See—
Nordgard, Carl Sigvard, 3,688,905.
- Svenska Rotor Maskiner Aktiebolag: See—
Birger, Pettersson, 3,687,192.
Lundin, Stig, 3,687,224.
Mock, Karl Heinz, 3,669,183.
Nilsson, Hans Robert, 3,664,778.
Pettersson, Birger; and Johnsson, Bo, 3,692,096.
- Svenska Sockerfabriks Aktiebolaget: See—
Sjovall, Stig Lennart, 3,680,638.
- Svenska Traforskningsinstitutet: See—
Gierer, Josef Franz; and Norin, Carl Torbjorn, 3,694,309.
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Deradorian, Bagdasar; Svenson, James; and Nalepka, Raymond, 3,665,497.
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- Svensson, Gustav Einar Wilhelm. Inertia reel safety harness for use in vehicles. 3,680,808, 8-1-72, Cl. 242-107.400.
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- Svensson, Olof: See—
Ling, Bernt; Persson, Anders; and Svensson, Olof, 3,694,936.
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Liedberg, Kurt Herman; Jonsson, Nils Erik Reinhold; and Svensson, Sten Gunnar Hugo, 3,692,214.
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- Sveriges Radio Aktiebolag: See—
Jarmar, Sven O., 3,644,785.
- Sveshnikov, Jury Fedorovich: See—
Kulbakh, Valter Osvoldovich; Kholodova, Galina Vasilievna; and Sveshnikov, Jury Fedorovich, 3,683,071.
- Svetlichny, Boris Nikolaevich: See—
Ivanovichetrov, Vasily; Svetlichny, Boris Nikolaevich; Demidov, Jury Alexeevich; Elin, Nikolai Mikhailovich; Cherepanov, Vladimir Petrovich; Samuilov, Ivan Nikolaevich; and Cheprasov, Ivan Matveevich, 3,684,264.
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- Svidirov, Mikhail Vasilievich: See—
Karakashian, Zaven Oganeevich; Lazarian, Vsevolod Arutjunovich; Azarov, Boris Vasilievich; Bolotin, Mikhail Mikhailovich; Pershin, Vladimir Yakovlevich; Timoshuk, Albert Isidorovich; Dragonenko, Anatoly Alexandrovich; Zarakovich, Ilia Yakovlevich; and Svidirov, Mikhail Vasilievich, 3,656,632.
- Svinov, Alexei Kapitonovich: See—
Maximovich, Boleslav Ivanovich; Dudko, Daniil Andreevich; Agafonov, Nikolai Georgievich; Maximov, Igor Petrovich; Andreev, Vadim Grigorievich; Lepilov, Nikolai Yakovlevich; Svinov, Alexei Kapitonovich; Slonimsky, Alexandr Borisovich; Volk, Boris Zakharovich; Gubin, Alexandr Ivanovich; and Katman, Berta Osipovna, 3,677,330.
- Sviridova, Remma Nikolaevna: See—
Ermolenko, Igor Nikolaevich; Sviridova, Remma Nikolaevna; and Kuvaeva, Zoya Ivanovna, 3,702,832.
- Svirin, Alvin Afanasievich: See—
Kostin, Konstantin Fedorovich; Sapunov, Georgy Konstantinovich; Svirin, Alvin Afanasievich; Strakhov, Valery Ivanovich; and Shur, Grigory Iosifovich, 3,648,091.
- Svirina, Valentina Petrovna: See—
Nestorovsky, Vsevolod Vladimirovich; Khmelnskiy, Julius Lazarevich; Karzhev, Vladimir Ivanovich; Silchenko, Ekaterina Ivanovna; Goncharova, Nina Vasilievna; Svirina, Valentina Petrovna; Maikova, Margarita Viktorovna; and Murashkina, Marfa Markovna, 3,649,96.
- Svischev, Georgy Petrovich: See—
Tupolev, Andrei Nikolaevich; Tupolev, Alexei Andreevich; Cheremukhin, Georgy Alexeevich; Bliznjuk, Valentin

- Ivanovich; Pukhov, Alexandr Leonidovich; Svischev, Georgy Petrovich; Bjughgens, Georgy Sergeevich; and Mikeladze, Vitaly Georgievich, 3,677,502.
- Svit, narodni podnik: See—
Bayer, Oldrich; Snel, Josef; Premyslovsky, Jiri; and Smalcl, Frantisek, 3,704,654.
- Svizela, Antonin: See—
Kristek, Ladislav; Svizela, Antonin; and Hampl, Ivo, 3,633,744.
- Svoboda, Antonin: See—
Janecek, Jaroslav; and Svoboda, Antonin, 3,633,495.
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- Svoboda, Vladimir: See—
Skopalik, Josef; Svoboda, Vladimir; and Opatril, Vaclav, 3,705,503.
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- Svoboda, Vlastimil: See—
Kadera, Vaclav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemec, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, 3,647,312.
- Skvos, Steve George: See—
Child, Ralph Grassing; Skvos, Steve George; and Tomcufcik, Andrew Stephen, 3,642,990.
- Skvos, Steve George; and Angier, Robert Bruce, to American Cyanamid Company. 1,4-Diphenyl-3,6-dimercapto or epi(dithia or tetra-thia)2,5-piperazinediones. 3,673,172, 6-27-72, Cl. 260-239.3.
- Svorec, Richard S. Keyed stereophonic transmission system. 3,679,836, 7-25-72, Cl. 179-15.0bt.
- Svoronos, Jason, to Eleusis Bauxite Mines Mining Industrial & Shipping Inc. Method of recovering alumina from alunite and aluminosilicate materials. 3,647,372, 3-7-72, Cl. 23-142.
- SW Industries, Inc.: See—
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McIntyre, Hal Byers; and Hickey, Harvey Edward, 3,696,514.
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- Swados, Harrison G., to MSL Industries, Inc. Cross lapper. 3,638,279, 2-1-72, Cl. 19-163.
- Swager, Carl J. Mobile spray painting machine. 3,687,371, 8-29-72, Cl. 239-150.000.
- Swain, Charles Gardner, to Massachusetts Institute of Technology. Voltage sensing switch. 3,673,502, 6-27-72, Cl. 328-146.000.
- Swain, Charles Gardner, to Ionics, Incorporated. Temperature-compensated current reference. 3,700,934, 10-24-72, Cl. 307-310.000.
- Swain, James Bert; and Jeffries, David, to Baisod-Atomic, Inc. Web transport system particularly for high resolution photographic printing. 3,689,154, 9-5-72, Cl. 355-97.000.
- Swain, Pervis A.: See—
Granzow, Daniel B.; Gawron, Stanley A.; Graff, William P.; and Swain, Pervis A., 3,632,901.
- Swain, Roger S.: See—
Gallant, Reginald R.; Swain, Roger S.; and Waterman, Neil S., 3,701,945.
- Swain, William W.; and Hathaway, Richard A., to Cartridge Television, Inc., mesne. Drive for tape guides of tape transport. 3,660,614, 5-2-72, Cl. 179-100.2.
- Swain, William W., to Cartridge Television, Inc. Shiftable spindle for tape transport. 3,666,207, 5-30-72, Cl. 242-197.
- Swain, William W., to Cartridge Television, Inc., mesne. Tape cartridge. 3,672,603, 6-27-72, Cl. 242-194.000.
- Swaine, Robert L.; and Prendergast, Anne M., to Clay, William C., Jr., mesne. Cola beverage composition and method of making. 3,632,354, 1-4-72, Cl. 99-78.
- Swalheim, Donald Arthur, to Du Pont de Nemours, E. I., and Company. Electrofinishing process. 3,658,664, 4-25-72, Cl. 204-54.
- Swalm, Calvin D. Clip for attaching sign to a staff. 3,648,334, 3-14-72, Cl. 24-259.
- Swaluw, Harry Leman: See—
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- Swampillai, Christy Edward Selvanayagam; Savage, Eric John; and Lawton, John Edward, to British Insulated Callender's Cables Limited. Gas insulated busbar installation. 3,636,233, 1-18-72, Cl. 174-16.
- Swan, Donald M. Grass seed mat. 3,703,786, 11-28-72, Cl. 47-56.000.
- Swan, Maurice Franklin, Jr.: See—
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- Swan Trailers Inc.: See—
Randle, Dee, 3,703,301.
- Swan, William O., Jr.; and Krupp, David M., to Anderson Jacobson, Inc. Waveform generator. 3,651,338, 3-21-72, Cl. 307-227.
- Swanbeck, Gunnar P. E., to Medisan AB. Skin-treating composition and vehicle for skin-treating agents. 3,666,863, 5-30-72, Cl. 424-316.000.
- Swaneck, Anthony J.: See—
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- Swanfeldt, Roy T.: See—
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- Swango, William Herald: See—
Hudgins, Patricia Lucille; Stringer, George Raymond; and Swango, William Herald, 3,657,356.
- Swank, Inc.: See—
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- Swanke, Roy L.; and Raymond, Gordon H., to Dynamics Corporation of America. Multiple push button switch speed control system. 3,678,288, 7-18-72, Cl. 307-113.000.
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- Swann, Carl C. Twin lens parallax free camera system. 3,653,314, 4-4-72, Cl. 95-44.
- Swann, Richard C. G.: See—
Pitzer, Dorman C.; Braddock, Walter B.; Swann, Richard C. G.; and Pyne, Anthony E., 3,649,888.
- Swann, Richard Charles George: See—
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- Swann, William Richard, to Jessett & Henry (Food Machinery) Limited. Food slicing machines. 3,643,718, 2-22-72, Cl. 146-94.
- Swanquist, Wesley W., to All-Steel Equipment Inc. Device for attaching electrical boxes to metal studding. 3,684,230, 8-15-72, Cl. 248-229.000.
- Swanson, Arden E.: See—
Wellan, Wayne G.; Converse, John O.; and Swanson, Arden E., 3,680,285.
- Swanson, Bruce W.: See—
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- Swanson, Carl Loyal W.: See—
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McCoy, Frederic C.; and Swanson, Carl Loyal W., 3,681,348.
- Swanson, Carl R., to Zenith Radio Corporation. Compact distributed-parameter network. 3,643,182, 2-15-72, Cl. 333-29.
- Swanson, Elston H.; Fahnestock, James D.; and Wicks, William H., to Instruments for Industry Inc. Signal generator. 3,689,849, 9-5-72, Cl. 331-1.00a.
- Swanson, Eric R.: See—
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- Swanson, Forrest V.; and Sellon, Raymond N., Jr., to Case, J. I., Company. Plural panel door assembly. 3,692,083, 9-19-72, Cl. 160-206.000.
- Swanson, Frank D.; and Gregornik, Norm, to Honeywell Inc. Epoxy-modified, amine curable urethane resin and method of making same. 3,649,599, 3-14-72, Cl. 260-77.5.
- Swanson, Garland L. Reel assembly for harvester. 3,638,408, 2-1-72, Cl. 56-219.
- Swanson, Gunnar E., to Nielsen Hardware Corporation, The. Catch with anti-release latch. 3,670,371, 6-20-72, Cl. 24-68.00t.
- Swanson, Hilmer I., to Gates Radio Company. Pulse duration modulation transmitter. 3,643,161, 2-15-72, Cl. 325-150.
- Swanson, Hilmer I., to Harris-Intertype Corporation. Meter driver circuit having initial overdrive and means to discharge a storage circuit at a constant rate. 3,649,911, 3-14-72, Cl. 324-125.
- Swanson, John G., to Westinghouse Electric Corporation. Metal-insulator structures and method for forming. 3,671,819, 6-20-72, Cl. 317-234.000.
- Swanson, John J.: See—
Reed, William A.; Kinzer, William K.; Swanson, John J.; and Kusner, Robert E., 3,655,837.
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- Swanson, John W.; Hartman, David A.; Beers, Russel L.; and Jamieson, Ernest J., to Cities Service Oil Company. Lubricating oil composition. 3,647,694, 3-7-72, Cl. 252-51.5.
- Swanson, Kenneth B.: See—
Kish, George R.; and Swanson, Kenneth B., 3,674,954.

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- Swanson, Norman, to Veritas International. Hull construction. 3,650,235, 3-21-72, Cl. 114-67.
- Swanson, Raymond W.; and Yaffe, Marvin M.; deceased (Yaffe, Beverly Ruth; administratrix). Contra-leverage construction for a truck-and like stake. 3,661,420, 5-9-72, Cl. 296-43.000.
- Swanson, Raymond W. Releasable automatic fastener for a truck stake and like. 3,674,304, 7-4-72, Cl. 296-43.000.
- Swanson, Richard Maurice, to Bell Telephone Laboratories, Incorporated. Line lockout circuit. 3,705,959, 12-12-72, Cl. 179-18.00f.
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- Swanson, Roger I., to Dake Corporation. Method and means for indicating tension. 3,696,412, 10-3-72, Cl. 340-421.000.
- Swanson, Rollin J. Atmospheric water collector. 3,675,442, 7-11-72, Cl. 62-285.000.
- Swanson, Ronald R.: See—
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- Swanson, Swan G. Variable high speed gear pump. 3,669,577, 6-13-72, Cl. 418-21.
- Swanson, Wayne L. Method and apparatus for handling articles in transit. 3,665,866, 5-30-72, Cl. 105-369.
- Swanson, Wesley S.: See—
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- Swanson, William C.; Moyer, Donald W.; and Asmus, Rodger W., to International Harvester Company. Manual disconnect and feathering control for a hydrostatic transmission. 3,699,678, 10-24-72, Cl. 60-53.00r.
- Swanwick, Barry Frederick: See—
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Schwab, Kurt, 3,702,213.
- Swart, Richard H., Sr. Humidifier control system. 3,640,265, 2-8-72, Cl. 126-113.
- Swartz, Edward. Watertight electric receptacle connector. 3,633,150, 1-4-72, Cl. 339-36.
- Swartz, Elmer L., to United States of America, Army. One shot fluid gate. 3,690,338, 9-12-72, Cl. 137-81.500.
- Swartz, Harold Lee: See—
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- Swartz, Horace M.: See—
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- Swartz, Horace M., to FMC Corporation. Truck tow conveyor switching apparatus. 3,691,959, 9-19-72, Cl. 104-88.000.
- Swartz, Jerome: See—
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- Swartz, Leonard B., to Oxygen Valve Company of America. Gas supply connector and regulator valve. 3,646,965, 3-7-72, Cl. 137-614.06.
- Swartz, Paul S.; and Westendorp, Willem F., to General Electric Company. Acyclic generator with vacuum arc commutator for rapid generation of short, high energy pulses. 3,646,394, 2-29-72, Cl. 315-205.
- Swartz, William M. Method of making plastic articles. 3,631,580, 1-4-72, Cl. 29-407.
- Swartz, William M. Method for applying letters to plaques and the like. 3,676,248, 7-11-72, Cl. 156-235.000.
- Swatman, Peter P., to British Leyland (Austin-Morris) Limited. Carburetors for internal combustion engines. 3,667,741, 6-6-72, Cl. 261-50.00a.
- Swatt, Leonard W., to Acme Spring Company. Adjustable bed. 3,644,946, 2-29-72, Cl. 5-68.
- Swayn, Francis H. Fabric treatment processes. 3,650,672, 3-21-72, Cl. 8-137.
- Swayne, Kenneth G.; and Dragun, Henry L., to Du Pont de Nemours, E. I., and Company. Plug flow method for molding foamed polylactams. 3,663,670, 5-16-72, Cl. 264-53.
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- Swearingen, Judson S. Rotary gas handling machine and rotor therefor free of vibration waves in operation. 3,642,379, 2-15-72, Cl. 415-119.
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- Swearingen, Judson S.; and Sunder, Sham. Refrigeration process for use in liquefaction of gases. 3,690,114, 9-12-72, Cl. 62-40.000.
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- Bunker, William H.; Kerr, John W.; Mitrofanoff, Nicholas S.; and Swearingen, Kent W., 3,680,054.
- Swearingen, Kent W., to International Business Machines Corporation. Apparatus for controlling the cycle steals required by a chain printer under CPU control. 3,693,160, 9-19-72, Cl. 340-172.500.
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- Reckseit, Bernard S.; and Burgess, George A., 3,697,006.
- Talley, Walter J., Jr., 3,707,235.
- Swedenberg, Clyde J.; and Ciesla, Manfred J., to United States of America, Navy. Homogeneous solid solution oxidizing composition. 3,697,340, 10-10-72, Cl. 149-19.000.
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Layne, Arnold B., 3,691,612.
- Sweeney, David F.: See—
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- Sweeney, Frank B., to Emcon Technology, Inc. PCV valve. 3,664,368, 5-23-72, Cl. 137-480.
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- Sweeney, James S.: See—
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- Sweeney, Joseph Patrick; and Rueger, Herman, to AMP Incorporated. Optical aid. 3,706,134, 12-19-72, Cl. 29-629.000.
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- Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton H., 3,647,887.
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- Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton Herbert, 3,697,564.
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- Sweeney, Richard F.; Price, Alson K.; and Khan, Aziz U., to Allied Chemical Corporation. Polyfluoroalkoxyalkyl amido carboxylic acids and salts thereof. 3,644,513, 2-22-72, Cl. 260-534.
- Sweeney, Richard F.; and Price, Alson K., to Allied Chemical Corporation. Fluorocarbon derivatives. 3,651,069, 3-21-72, Cl. 260-294.8.
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- Sweeney, Richard F.; and Price, Alson K., to Allied Chemical Corporation. Quaternary ammonium compounds. 3,681,413, 8-1-72, Cl. 260-404.500.
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- Sweeney, Robert. Disposable self-packaging dustpan kit. 3,639,937, 2-8-72, Cl. 15-104.8.
- Sweeney, Robert. Vapor control sheet material. 3,650,883, 3-21-72, Cl. 161-162.
- Sweeney, Thomas E. Foldable semi-rigid airfoil for airborne vehicles. 3,647,163, 3-7-72, Cl. 244-49.
- Sweeney, William A.: See—
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- Sweeney, William A., to Chevron Research Company. Color reduction of olefin sulfonates. 3,699,157, 10-17-72, Cl. 260-513.00r.
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- Sweeney, William G.: See—
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- Sweeney, Allen N., to Devlieg Machine Company. Tool having resilient bumper. 3,699,843, 10-24-72, Cl. 90-11.00a.
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- Sweet, Douglas W., to General Motors Corporation. Synchronizing circuit for four-wheel anti-lock brake control system. 3,702,206, 11-7-72, Cl. 303-21.00r.
- Sweet, Ervin J.: See—
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- Sweet, Harold C., 50% to Williams, Merton E. Portable distillery. 3,672,959, 6-27-72, Cl. 202-181.000.
- Sweet, Larrie H.; and Baker, Nelson H., Jr., to Carborundum Company. The Furnace wall construction. 3,668,831, 6-13-72, Cl. 52-484.000.
- Sweet, Ralph; and Dyck, F. Ben, to Sweet, Ralph, General Delivery. Automatic depth control device for tillage units. 3,658,133, 4-25-72, Cl. 172-4.
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- Sweeten, Orlin L.; and Abromavage, John C., to Advanced Management Engineering & Research Co. Carousel multiphasic screening laboratory. 3,696,805, 10-10-72, Cl. 128-2.00r.
- Sweetheart Plastics, Inc.: See—
Davis, Paul, 3,653,362.
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- MacDaniel, Gene; and Mc Elvy, Howell T., 3,673,033.
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- Warner, Robert J., 3,695,486.
- Sweetser, Donald Arthur, to Thomas Industries Inc. Combined lighting and ventilating fixture. 3,701,895, 10-31-72, Cl. 240-9.00a.
- Sweger, Russell P., to Barber-Colman Company. Transmitter-receiver system. 3,662,241, 5-9-72, Cl. 318-473.
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- Sweger, Theodore J., to Illinois Railway Equipment Company. Device for automatically latching a container to a railway car or the like and for automatically unlatching it therefrom. 3,670,663, 6-20-72, Cl. 105-366.00c.
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- Sweitzer, Stanley E., to Western Electric Company, Incorporated. Methods for selectively coating ferromagnetic articles. 3,635,730, 1-18-72, Cl. 117-38.
- Swenck, George F., to Reynolds Metals Company. Method of making ball bat metal body system. 3,691,625, 9-19-72, Cl. 29-557.000.
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- Swensen, Eugene L.; and Gibson, Franklin E., to Liskey Aluminum Inc. Floor panel for an elevated floor assembly. 3,696,578, 10-10-72, Cl. 52-618.000.
- Swenson, Donald G.; and Trautman, George H., Jr., to Niagara Machine & Tool Works. Deflection compensating press brake die support. 3,702,558, 11-14-72, Cl. 72-389.000.
- Swenson, Henry F. Swing arm for holding a dressing device. 3,669,089, 6-13-72, Cl. 125-11.
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Grygera, James W.; Charlton, James R.; and Swenson, Kenneth S., 3,694,662.
- Swenson, Robert A.: See—
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- Swerdlow, Nathan, to General Electric Company. Liquid cooled bus containing a disconnecting link. 3,646,245, 2-29-72, Cl. 174-21.
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- Swettlitz, Myron: See—
Lackey, Robert S.; Meess, Jack D.; and Swettlitz, Myron, 3,635,536.
- Swets, Don E., to General Motors Corporation. Crystal growth of tetragonal germanium dioxide from a flux. 3,650,702, 3-21-72, Cl. 23-300.
- Swett, Alan M.: See—
Edwards, James H.; and Swett, Alan M., 3,633,500.
- Swett, James B.: See—
Ashton, Harold P.; and Swett, James B., 3,698,460.
- Croyle, Jack V.; and Swett, James B., 3,692,208.
- Swett, James B.; and Croyle, Jack V., to Dart Industries, Inc. Press type closure. 3,679,088, 7-25-72, Cl. 220-42.00r.
- Swett, James B.; and Croyle, Jack V., to Dart Industries Inc. Press type closure. 3,679,089, 7-25-72, Cl. 220-42.00c.
- Swett, James B., to Dart Industries Inc. Mold for congealable comestibles. 3,680,828, 8-1-72, Cl. 249-134.000.
- Swett, James B.; and Smith, Sidney Z., to Dart Industries, Inc. Storage container for celery or the like. 3,698,783, 10-17-72, Cl. 312-351.000.
- Swett, James B.; and Ashton, Harold P., to Dart Industries, Inc. Mold for ingestible substances. 3,700,204, 10-24-72, Cl. 249-104.000.
- Swett, Leo Ralph, to Abbott Laboratories. 1,3-Dimethyl-5-methylamino-8-phenylpyrazolo [4,3-e] [1,4] diazepine. 3,657,271, 4-18-72, Cl. 260-310.
- Swett, Leo Ralph; and Ratajczyk, James Daniel, to Abbott Laboratories. 5-Pyrazolylthiopropionic acid derivatives. 3,665,008, 5-23-72, Cl. 260-310.
- Swett, Leo Ralph; and Ratajczyk, James Daniel, to Abbott Laboratories. Pyrazolothiazepines and isoxazolothiazepines. 3,669,983, 6-13-72, Cl. 260-307.00h.
- Swett, Leo Ralph; Ratajczyk, James Daniel; and Young, Patrick Richard, to Abbott Laboratories. N'-[4-formyl]-5-amido pyrazoles. 3,686,171, 8-22-72, Cl. 260-240.00g.

- Swett, Leo Ralph; and Paris, Gerard Yvon, to Abbott Laboratories. 1,3-Dimethyl-4,5-di (p-substituted phenyl)-6H-pyrrolo [2,3-c] pyrazoles. 3,701,785, 10-31-72, Cl. 260-310.00r.
- Swezey, Edwin W., to Union Camp Corporation. Process and apparatus for forming display packages. 3,657,855, 4-25-72, Cl. 53-3.
- Swiatosz, Edmund; and Chambers, Walter S., to United States of America, Navy. Fire fighting and control simulator. 3,675,343, 7-11-72, Cl. 35-10.000.
- Swichard, Edward A.: *See—*
Borzone, John J.; Swichard, Edward A.; and Burek, John A., Jr., 3,699,500.
- Swidinsky, John: *See—*
Brown, Bernard Beau; and Swidinsky, John, 3,691,197.
Clegg, John Martin; Swidinsky, John; and Brown, Bernard Beau, 3,644,396.
- Swidler, Ronald: *See—*
Gamarra, Jose P.; Swidler, Ronald; and Wilson, Katherine W., 3,653,805.
Mueller, William A.; and Swidler, Ronald, 3,637,478.
- Swidler, Ronald; and Wilson, Katherine W., to Cotton Incorporated. Process for treating cellulosic material with formaldehyde and sulfur dioxide. 3,706,526, 12-19-72, Cl. 8-115.700.
- Swieczicki, Ignacy, to Allis-Chalmers Manufacturing Company. Valve with energy dissipation chamber. 3,704,856, 12-5-72, Cl. 251-118.000.
- Swietlik, Joseph M.: *See—*
Marsh, John F.; and Swietlik, Joseph M., 3,655,557.
- Swift & Company: *See—*
Anderson, Harry T., 3,651,189.
Anderson, Harry T., 3,673,065.
Hayhurst, Lewis J.; Avery, William L.; and Gels, Clarence B., 3,649,303.
Hunsader, David N., 3,693,319.
Johnson, Keith L., 3,642,506.
Panek, Mitchell W., 3,636,857.
Pirro, Michael S., 3,691,717.
Schack, Warren R.; Schmoller, Eugene G.; Shanks, Thomas K.; and Metzger, Philip C., 3,661,073.
Shone, Robert L.; and Findley, Thomas W., 3,704,256.
Watson, James W., 3,650,684.
- Swift Agricultural Chemicals Corporation, *mesne: See—*
Carroll, Robert L.; and Hayward, Charles R., 3,677,734.
- Swift, Edward W.: *See—*
Sanderson, John L.; and Swift, Edward W., 3,699,171.
- Swift, George B.: *See—*
Genyk, Walter; Martin, Raymond E.; Swift, George B.; Wiggins, Robert L.; and Wolfe, Raymond W., 3,702,510.
- Swift, Harold E.: *See—*
Beuther, Harold; Ondrey, John A.; and Swift, Harold E., 3,644,550.
Bozik, John E.; and Swift, Harold E., 3,636,157.
Bozik, John E.; Swift, Harold E.; and Wu, Ching-Yong, 3,677,968.
Bozik, John E.; Swift, Harold E.; and Wu, Ching-Yong, 3,678,022.
Bozik, John E.; Swift, Harold E.; and Wu, Ching-Yong, 3,703,483.
Kehl, William L.; Lutinski, Frank E.; and Swift, Harold E., 3,639,647.
Kobylinski, Tadeusz P.; and Swift, Harold E., 3,644,559.
Ondrey, John A.; and Swift, Harold E., 3,641,138.
Ondrey, John A.; and Swift, Harold E., 3,644,551.
Ondrey, John A.; and Swift, Harold E., 3,655,749.
Ondrey, John A.; and Swift, Harold E., 3,655,750.
Ondrey, John A.; and Swift, Harold E., 3,660,479.
- Swift, Harold E., to Gulf Research & Development Company. Preparation of vinyl acetate. 3,641,121, 2-8-72, Cl. 260-497.
- Swift, Harold E., to Gulf Research & Development Company. Group VIII metal-tin catalyst and method of making same. 3,691,102, 9-12-72, Cl. 252-469.000.
- Swift, Harry J.: *See—*
Wrestler, Frank; Swift, Harry J.; and Wrestler, Edgar R., 3,703,802.
- Swift, Thomas G., to Staley, A. E., Manufacturing Company. Remoistenable adhesive composition for prepasted wall coverings. 3,690,938, 9-12-72, Cl. 117-122.00s.
- Swift, Wesley K. Anchorage for boat docks. 3,662,559, 5-16-72, Cl. 61-46.
- Swift, William C. Electronic timing system for milking. 3,703,645, 11-21-72, Cl. 307-154.000.
- Swift, William R.: *See—*
Reid, Marvin A.; and Swift, William R., 3,643,570.
- Swiggard, Edward M.: *See—*
Bishop, Stephen G.; Moore, William J.; and Swiggard, Edward M., 3,638,138.
- Swilling, Francis L., to Libbey-Owens-Ford Company. Atmosphere twee seal method and apparatus. 3,637,363, 1-25-72, Cl. 65-32.
- Swilling, Francis L., to Libbey-Owens-Ford Company. Water fence support in float glass apparatus. 3,653,868, 4-4-72, Cl. 65-182.
- Swilling, Francis L., to Libbey-Owens-Ford Company. Exit sealing drape for float glass bath. 3,674,456, 7-4-72, Cl. 65-182.00r.
- Swilling, Francis L., to Libbey-Owens-Ford Company. Start up hood in float glass apparatus and method of using same. 3,684,472, 8-15-72, Cl. 65-99.00a.
- Swimmer, James A.; and Harris, Martin, to Berns Air King Corporation. Humidifier. 3,637,194, 1-25-72, Cl. 261-29.
- Swimmer, James A., to Berns Air King Corporation. Electric space heater. 3,637,981, 1-25-72, Cl. 219-347.
- Swimmer, Milton I.: *See—*
Bynder, Samuel Fred; and Swimmer, Milton I., 3,663,015.
- Swimrite, Inc.: *See—*
Clinton, Harry M., 3,684,169.
Edmiston, James R.; and Clinton, Harry M., 3,689,408.
- Swinbank, Everett John: *See—*
Ackermann, Harry John; Blessin, Louis Dewey; Hermann, Leroy Nicholas; Ririe, Max Henry; and Swinbank, Everett John, 3,693,593.
- Swindells, Frank E., to Melpar, Inc. Rechargeable electrochemical cell with solid zinc salt complex electrolyte. 3,669,743, 6-13-72, Cl. 136-6.000.
- Swindlehurst, Carl P., to General Motors Corporation. Vehicle body headlining. 3,642,317, 2-15-72, Cl. 296-137.
- Swindlehurst, Thomas, Jr.: *See—*
Robinson, Raymond C. V.; Hildick-Smith, Gavin; and Swindlehurst, Thomas, Jr., 3,632,740.
- Swindler, Henry A., to Parker-Hannifin Corporation. Fluid transfer device. 3,678,972, 7-25-72, Cl. 141-387.000.
- Swindt, Joseph K.; and Oelke, Erwin S., to Blake Rivet Co. Sealing shear fastener. 3,641,865, 2-15-72, Cl. 85-7.
- Swing, Davison B.: *See—*
Hunter, Edwin J.; Starrett, George H.; and Swing, Davison B., 3,682,752.
- Swingline Inc., *mesne: See—*
Ruskin, Henry, 3,656,678.
- Swinhoe, Ronald; and Hamer, Allan Norman, to United Kingdom Atomic Energy Authority. Cold traps for liquid metal. 3,693,959, 9-26-72, Cl. 266-37.000.
- Swinkels, Dominicus A. J.: *See—*
Bradley, Thompson G.; and Swinkels, Dominicus A. J., 3,674,567.
- Swinn, Moyle A. Safety container. 3,656,647, 4-18-72, Cl. 215-9.
- Swinnen, Richard Louis: *See—*
Chenel, Francois; and Swinnen, Richard Louis, 3,642,605.
- Swinney, Frederick Bernard, to Polymer Corporation. Polymeric structures. 3,656,476, 4-18-72, Cl. 128-90.
- Swinson, Ronald D., to Farah Manufacturing Company, Inc. Towing machine. 3,662,989, 5-16-72, Cl. 254-8.
- Swirsky, David M.: *See—*
Burock, Russell; Swirsky, David M.; and Whitner, Robert A., 3,644,180.
- Swisher, Eugene Henry: *See—*
Briggs, Albert Theodore; and Swisher, Eugene Henry, 3,670,551.
- Swisher, George W., Jr.; Smith, Don W.; and Snow, Ralph K., Jr., to CMI Corporation. Hydrostatic drive system. 3,637,036, 1-25-72, Cl. 180-66.
- Swisher, Horton E., to Sunkist Growers, Inc. Limonin free naval orange juice and drink of milk embodying such orange juice. 3,647,476, 3-7-72, Cl. 99-105.
- Swisher, James A., to International Tool Sales, Inc. Impact driven tool with replaceable cutting point. 3,655,244, 4-11-72, Cl. 299-91.
- Swisher, James H.: *See—*
Fuchs, Edward O.; and Swisher, James H., 3,647,573.
- Swisher, Richard L.: *See—*
Anderson, Donald E.; and Swisher, Richard L., 3,634,714.
- Swisher, Willis R.: *See—*
Taylor, Eugene D.; and Swisher, Willis R., 3,635,104.
- Swiss Aluminum Ltd.: *See—*
Hallauer, Walter, 3,641,728.
Hofling, Erich; and Breu, Hanspeter, 3,647,658.
Huwyl, Sebastian; and Schmidt-Hatting, Wolfgang, 3,688,559.
Kronenberg, Hans; and Gmur, Dionys, 3,670,899.
Marineck, Borut, 3,692,645.
Schaper, Hans; Springer, Kurt; and Kyburz, Edgar, 3,664,946.
Schrade, Jean; Severus, Harald; and Muller, Walter, 3,660,207.
Springer, Kurt, 3,663,411.
Springer, Kurt, 3,679,569.
Wolf, Emanuel, 3,647,590.
- Swiss American Precision Imports, Inc.: *See—*
Jones, Price D., 3,665,790.
- Switchcraft, Inc.: *See—*
Bailey, James R., 3,651,700.
Bailey, James R., 3,656,089.
Bailey, James R., 3,681,552.
- Switchenbank, Colin; and Viste, Kenneth L., to Rohm & Haas Company. N-(1,1-dimethyl-2-but-n-1)-3,5-dichlorobenzamide. 3,700,732, 10-24-72, Cl. 260-558.00d.
- Switches, Inc.: *See—*
Corn, Prentice R.; and Gebhardt, Wallace A., 3,649,796.

- Corn, Prentice R.; and Gebhardt, Wallace A., 3,670,120.
Gebhardt, Wallace A.; and Corn, Prentice R., 3,670,119.
Wolf, Walter A., 3,683,316.
Wolf, Walter A.; and Corn, Prentice R., 3,688,065.
- Swithenbank, Colin: *See—*
McNulty, Patrick J.; Swithenbank, Colin; Viste, Kenneth L.; and Von Meyer, William C., 3,661,991.
- Swithenbank, Joshua: *See—*
Hawkes, Ivor; and Swithenbank, Joshua, 3,695,820.
- Swithenbank, Joshua; and Taylor, David Shaw, to National Research Development Corporation. Fluidic logic system for causing selective flow of a first or second fluid through a common element. 3,631,873, 1-4-72, Cl. 137-81.5.
- Switliski, Vincent S.; and Harmon, Arthur R., to Beck, Charles, Machine Corporation. Box lidding machine. 3,694,999, 10-3-72, Cl. 53-313.000.
- Switsen, Henry N. Gas discharge lamp firing circuit. 3,697,805, 10-10-72, Cl. 315-241.00p.
- Switzer, James A. Paint brush storing sealable plastic bag. 3,690,448, 9-12-72, Cl. 206-15.100.
- Switzer, Norris H.: *See—*
Gioia, Gaspare L.; Switzer, Norris H.; and Willerton, John K., 3,672,608.
- Swoboda, Johann: *See—*
Fischer, Hermann; Heil, Eduard; Swoboda, Johann; and Thoma, Richard, 3,634,300.
Pohlemann, Heinz; Roemer, Frithjof; and Swoboda, Johann, 3,634,371.
- Swodenk, Wolfgang; Schwerdtel, Wulf; Losacker, Paul; and Engelhard, Bruno, to Farbenfabriken Bayer Aktiengesellschaft. Isoprene recovery. 3,673,265, 6-27-72, Cl. 260-681.000.
- Swope, Charles Hermas: *See—*
Koester, Charles J.; and Swope, Charles Hermas, 3,670,260.
- Swope, Charles Hermas, to American Optical Corporation. Apparatus for directing a light beam. 3,653,384, 4-4-72, Cl. 128-303.1.
- Swords, Ben B.: *See—*
Kaspereck, Walter E.; Swords, Ben B.; and Rosinski, Werner K., 3,693,418.
- Swords, Herman L. Golf swing training device. 3,687,459, 8-29-72, Cl. 273-186.00d.
- Swoveland, Jackie E.; Irvin, Lothair; and Charles, James A., to Dana Corporation. Speed responsive switch. 3,699,288, 10-17-72, Cl. 200-80.00r.
- Swygert, Wilbert E., Jr., to Sperry Rand Corporation. Variable duty cycle control circuit. 3,691,404, 9-12-72, Cl. 307-252.00w.
- Sy, Jose C., to Audio Devices, Inc. Tape reel container. 3,685,646, 8-22-72, Cl. 206-65.00k.
- Sybron Corporation: *See—*
Adams, Ralph C.; and Anderson, John R., 3,632,506.
Anderson, Edgar L.; and Schneier, Michael L., 3,683,944.
Anderson, John Ray; and Hollingworth, Richard Peck, 3,674,466.
Dufault, Emmanuel J., 3,706,571.
Ernst, Robert R., 3,687,612.
Gertsens, Kai, 3,655,069.
Goode, John P.; Saeli, John J.; and Sformo, James P., 3,665,372.
Greer, Albert H., 3,654,221.
Griswold, Augustus W.; and Tompkins, James R., 3,673,853.
Hartnett, James J.; and Feigin, Robert, 3,667,899.
Heit, Allyn Harold; and Williamson, James Norris, 3,681,213.
Heit, Allyn Harold; and Williamson, James Norris, 3,703,508.
La Force, Walter P.; and Woodhams, Glen A., 3,667,124.
McDonald, Robert L.; and Anderson, Edgar L., 3,694,962.
Paxhia, Emmanuel A.; and Willett, David A., 3,703,639.
Pietschmann, Helmut Richard, 3,676,931.
Rucker, James H., 3,637,138.
Schneier, Michael Lawrence, 3,697,769.
Snyder, John Somerville, 3,675,003.
Stevens, Charles H., 3,694,145.
- Sybron Corporation, *mesne: See—*
Meyer, Leonard S., 3,704,561.
- Sydansk, Robert D.: *See—*
Dreher, Karl D.; and Sydansk, Robert D., 3,642,067.
- Sydansk, Robert D.; and Dreher, Karl D., to Marathon Oil Company. Control of water solubilization in micellar solutions. 3,648,770, 3-14-72, Cl. 166-252.
- Sydenham, Leonard: *See—*
Connelly, William; Sydenham, Leonard; and Szilagyi, John, 3,694,388.
- Sydemi Aktiebolag: *See—*
Paabo, George J.; and Uesson, Ants-Michael, 3,639,171.
- Syeles, Albert M.: *See—*
Anderson, Wallace E.; Krall, Albert D.; and Syeles, Albert M., 3,697,831.
- Sygnator, Henry A., to Illinois Tool Works Inc. Panel insert device. 3,662,805, 5-16-72, Cl. 151-41.73.
- Sygnator, Henry A., to Illinois Tool Works Inc. Snap-in fastener. 3,705,442, 12-12-72, Cl. 24-73.00p.
- Sykes, Alfred Ernest. Workpiece holders. 3,685,844, 8-22-72, Cl. 279-4.000.
- Sykes, Christopher; and Denroche, Charles H. P., to Nexus Limited. Adjustable supports. 3,664,627, 5-23-72, Cl. 248-246.
- Sykes, Donald J.; Kroll, Harry; and Finch, Theron R. Polyquaternary ammonium bisulfites, sulfites and pyrosulfites as developer preservatives. 3,705,806, 12-12-72, Cl. 96-664.000.
- Sykes, Edward Henry: *See—*
Meyer, Dolph Allan; Phelps, Ross Leslie; Sykes, Edward Henry; Clipsham, Ian Sweet; Seidel, David Paul; Gray, Donald; and Ractivand, Theodore Demetrius, 3,694,855.
- Sykes, Geoffrey M. H.: *See—*
Sturgeon, George M.; and Sykes, Geoffrey M. H., 3,632,244.
- Sykes, Henry, Limited: *See—*
Dagwell, Harold Lloyd, 3,638,956.
- Sykes, Malcolm, to Loudon and Russell Limited. Apparatus for use in forming pipes. 3,663,151, 5-16-72, Cl. 425-327.000.
- Sykes, Paul M.: *See—*
Annis, Darrell D.; Dodson, Keith D.; and Sykes, Paul M., 3,669,931.
- Sykes, Thomas R., to Gerrard Company Ltd., *mesne*. Newspaper bundle feeding and storing system. 3,667,591, 6-6-72, Cl. 198-220.00r.
- Sykes-Pickavant Limited: *See—*
Taylor, David John, 3,680,361.
- Syltebo, Bjarne E.: *See—*
Skidmore, Wallace E.; Syltebo, Bjarne E.; and Viall, Wilton S., 3,664,612.
- Sylvander, Frederick B., to Bendix Corporation, The. Solid state electroluminescent moving display device. 3,641,533, 2-8-72, Cl. 340-198.
- Sylvander, Frederick B.; Cohen, Richard L.; and Putzer, Murray, to Bendix Corporation, The. Groundspeed and time-to-go computer. 3,649,818, 3-14-72, Cl. 235-150.27.
- Sylvania Electric Products, Inc.: *See—*
Anderson, John W., 3,668,456.
Anderson, John Wallace; and Loughridge, Frederick Ardel, 3,676,043.
Anderson, Warren A.; Matheson, Wilfrid G.; and Strock, Lester W., 3,649,224.
Andrade, Philip; and Rychlewski, Thaddeus V., 3,647,941.
Anton, Franke, 3,699,382.
Arumugham, Rangaswamy; and Wheeler, Robert Charles, 3,670,095.
Audesse, Emery G.; Griffin, Robert M.; Tartakoff, Alexander; and Gutta, John J., 3,641,386.
Bargainnier, Roger B.; and Scheithauer, William, Jr., 3,652,746.
Barry, Thomas L., 3,651,363.
Beare, Gene K.; Kopelman, Bernard; and Seeger, Donald E., 3,676,663.
Beeman, James F.; Roberts, Glenn H.; and Smith, Charles W., 3,636,362.
Bennett, John E.; and Briggs, Richard Craig, 3,644,992.
Bidell, Frederick W.; Herold, Carl D., Jr.; and Lindholm, James H., 3,706,933.
Bjornson, George; Euling, Raymond; and Jones, Paul W., 3,671,107.
Bossers, Chris F., 3,665,569.
Brennan, Leon E.; Mower, Frederick J.; Place, Fred A.; Shanks, David A.; Simpson, Neville H.; and Zaner, William L., Sr., 3,634,899.
Brooks, David N.; Paulauskas, Clyde L.; and Edin, Ronald E., 3,654,431.
Brown, Stephen V.; Mc Donough, Thomas B.; and Shaffer, John W., 3,667,992.
Brown, Stephen V., 3,700,377.
Bulharowski, John Francis, 3,670,101.
Bunker, Thomas D.; and Thompson, David F., 3,689,336.
Buzard, Joseph Burton; Coleman, Kenneth W.; and Zelenz, Martin Leroy, 3,648,363.
Cala, Philip L., 3,638,463.
Chan, Tsiu C., 3,638,079.
Cheney, Richard F.; and Smith, James S., 3,663,667.
Cheney, Richard F.; and Parsons, Donald S., 3,676,083.
Cheney, Richard F.; and Weaver, Theodore L., 3,682,720.
Cheney, Richard F.; and Rench, Nicholas W., 3,684,912.
Chenot, Charles F., 3,649,550.
Chenot, Charles F., 3,657,141.
Chenot, Charles F., 3,693,006.
Chiola, Vincent; Kamin, George J.; and Vanderpool, Clarence D., 3,653,813.
Chiola, Vincent; and Dodds, Phyllis R., 3,664,954.
Cocca, Frank J., 3,699,644.
Cohen, Gerald; and Crystal, Maurice I., 3,678,205.
Cookson, Robert Wilbur, 3,706,902.
Coombs, Peter M.; and Hough, Harold L., 3,666,180.
Coombs, Peter M.; Davey, Ernest; and Kowalski, Conrad Edward, 3,704,928.
Dale, Ernest A.; and Thomas, Martha J. B., 3,668,455.
Dale, Ernest A.; and Thomas, Martha J. B., 3,676,358.

Dayton, David R.; and Brooks, David N., 3,659,092.
 Denniston, David M.; Shanks, David A.; and Sumpson, Neville H., 3,649,260.
 Donaldson, John G., 3,644,181.
 Dyche, James W., 3,699,517.
 Evand, Lyle W.; and Slobbe, Walter W., 3,689,265.
 Faria, Sixdeniel, 3,649,174.
 Faria, Sixdeniel; and Williams, Lyle K., 3,655,575.
 Faria, Sixdeniel; and Harrigan, David J., 3,655,978.
 Ferri, John L.; and Mathers, James E., 3,635,658.
 Ferri, John L.; and Mathers, James E., 3,639,932.
 Fisher, Philip C., Jr.; and Shaner, Kenneth H., 3,666,677.
 Foster, Jack D.; and Osterink, Larry M., 3,648,193.
 Franklin, Dennis M.; Hornreich, Richard M.; and Rubinstein, Harvey, 3,701,983.
 Frey, James O.; and Minnier, Henry B., 3,684,731.
 Gannoe, Thomas E., 3,635,203.
 Gough, Warren G., 3,678,391.
 Grisafe, David A., 3,649,554.
 Hammond, Michael J.; and Herner, Raymond F., 3,649,216.
 Hammond, Michael J.; and Haynes, James W., 3,676,177.
 Hammond, Michael J.; and Herner, Raymond F., 3,684,546.
 Hansen, Harvey Gordon, 3,669,304.
 Hart, Halver Allen, Jr., 3,638,930.
 Hedler, Robert A.; and Magill, Malcolm E., 3,657,009.
 Hedler, Robert A.; and Janssen, Jerry F., 3,658,530.
 Hedler, Robert A., 3,667,986.
 Jayne, Max L.; and Pihlblad, Robert W., 3,675,186.
 Jayne, Max L.; and Williams, Charles A., 3,701,081.
 Jenkins, Carlton G., 3,684,145.
 Johnson, Alfred D., 3,668,387.
 Johnson, Gordon L.; and Gannoe, Thomas E., 3,670,294.
 Johnson, Richard E.; and Natale, Paul R., 3,638,033.
 Kam, George H., 3,671,775.
 Kardash, John J., 3,654,493.
 Kepner, Theodore S.; and Miller, Michael F., 3,654,407.
 Kerstetter, Donald R., 3,632,485.
 Kimball, Stephen F., 3,668,391.
 Kopelman, Bernard; and Hay, Warren H., 3,706,521.
 Lagos, Costas, 3,647,706.
 Lagos, Costas C.; Fowler, Richard A.; and Thomas, Martha J. B., 3,668,140.
 Larson, John F.; and Polashenski, Walter A., 3,638,275.
 Larson, John F.; and Polashenski, Walter A., 3,660,865.
 Layman, Harry D.; and Taylor, Robert E., 3,655,576.
 Laymon, Marvin D.; McCoy, Jerome D.; and Schewe, Millard F., 3,696,369.
 Loughridge, Frederick A.; Matheson, Wilfrid G.; and Passmore, Edmund M., 3,676,730.
 Mathers, James E.; and Mikus, Felix F., 3,637,517.
 Mathers, James E.; and Toma, Sam Z., 3,649,555.
 Mathers, James E.; Mikus, Felix F.; and Yale, Ramon L., 3,653,816.
 Mattson, William R., 3,670,094.
 McNeill, William H., 3,666,343.
 McKee, Lefler H., 3,667,947.
 Menelly, Richard A., 3,676,729.
 Meyer, Edward, 3,669,715.
 Miller, Arthur Peter; and Ryan, Leslie Robert, 3,661,318.
 Miller, John J.; and Penird, Carl W., 3,692,379.
 Miller, John J.; and Rychlewski, Thaddeus V., 3,700,444.
 Miller, Larry R., 3,639,798.
 Mosier, John L.; and Peterson, Richard J., 3,680,032.
 Mrugala, Joseph V., 3,700,226.
 Neuber, Ralph E., 3,659,153.
 Ng, David M.; and Rehkopf, Charles M., 3,667,355.
 Overstreet, Scott M., 3,656,059.
 Paget, Fredrick W., 3,699,385.
 Palmer, Lewis H., III; and Kimball, Stephen F., 3,634,722.
 Patel, Suman H., 3,633,049.
 Patel, Suman H., 3,633,114.
 Pelton, Dean E., 3,691,088.
 Peters, Till J. N.; and Powers, John A., 3,652,462.
 Reed, Roger R., 3,662,267.
 Regec, John Jacob; and Roeber, Henry William, 3,667,331.
 Reiss, Stefan E., 3,677,843.
 Reynolds, Richard S., 3,655,268.
 Ritsko, Joseph E., 3,661,508.
 Roche, William J., 3,676,735.
 Say, Donald L.; and Smithgall, Harry E., 3,686,727.
 Schreurs, Willy P.; and Kimball, Lawrence W., 3,676,176.
 Schreurs, Willy P., 3,676,728.
 Shaffer, Harry L., 3,634,668.
 Shaffer, John W., 3,645,663.
 Shaffer, John W., 3,674,411.
 Shaffer, John W.; and Bennett, Sedgwick R., 3,692,996.
 Shaffer, John W.; and McDonough, Thomas B., 3,699,021.
 Shaffer, John W., 3,706,522.
 Smithgall, Harry E.; and Stone, Elmer O., 3,694,050.
 Srivastava, Gopal Krishna, 3,637,922.
 St. George, Alfonso; and Winkler, Floyd John, 3,643,020.

Staley, James Gordon, 3,634,626.
 Taubner, Fred R.; and Chenot, Charles F., 3,649,329.
 Thompson, David F., 3,676,569.
 Torsch, Charles Edward, 3,631,902.
 Torsch, Charles Edward; and Thomas, Joseph Edward, 3,643,125.
 Torsch, Charles Edward, 3,671,896.
 Tweed, Horace A., Jr., 3,665,310.
 Wanner, Louis R., 3,659,134.
 Waymouth, John F., 3,651,365.
 Wedam, Werner Franz, 3,693,043.
 Wheeler, Robert Charles, 3,655,916.
 Wilson, Dennis L., 3,691,549.
 Winklebleck, Paul K., 3,636,499.
 Yale, Ramon L., 3,650,975.
 Zelenz, Martin L., 3,670,379.
 Sylvania Electric Products, Inc., mesne: See—
 Ashley, Albert H., 3,641,519.
 Sylvest, Karl Jens, to Smidth, F. L., & Co. Treatment of cement raw materials. 3,703,275, 11-21-72, Cl. 263-32.00r.
 Sylvester, David: See—
 Dee, William C.; and Sylvester, David, 3,691,952.
 Sylvester, James L., to Gardner Machines Inc. Saw mill feedworks. 3,651,741, 3-28-72, Cl. 91-435.
 Sylvester, John F.: See—
 Lang, James I., 3,693,792.
 Sylvester, Paul: See—
 Grewcock, Sidney B.; Cooper, Alan; Amos, Arthur; and Sylvester, Paul, 3,668,899.
 Sylvester, Peter A.; and Wojciechowski, Walter J., to Harris-Inter-type Corporation. Ink and dampener form roll interruption for cleaning purposes. 3,701,316, 10-31-72, Cl. 101-148.000.
 Sylvester, Robert A.; and Young, Ronald W., to Jones & Laughlin Steel Corporation. Speed ratio measuring system. 3,637,998, 1-25-72, Cl. 235-92.
 Symbionics, Incorporated: See—
 Langley, Lawrence W., 3,651,433.
 Langley, Lawrence W., 3,705,261.
 Symbolik, William Stephen: See—
 Mishkin, Abraham Rudolph; and Symbolik, William Stephen, 3,633,283.
 Symcox, Robert Owen: See—
 Moody, Anthony Gifford; and Symcox, Robert Owen, 3,670,011.
 Symes, Clifford Edward, to Automatic Electric Laboratories, Inc. Actuators with torsion arms facilitating preselection in crossbar switches. 3,660,627, 5-2-72, Cl. 200-175.
 Symes, Clifford Edward, to GTE Automatic Electric Laboratories Incorporated. Crossbar switch. 3,673,366, 6-27-72, Cl. 200-175.000.
 Symes, Thomas J.: See—
 Jones, John Robert; and Symes, Thomas J., 3,644,562.
 Symes, Thomas James: See—
 Grebbell, John; and Symes, Thomas James, 3,689,587.
 Symington, Donald Fraser. Device for throwing hardened steel balls. 3,680,186, 8-1-72, Cl. 29-90.000.
 Symm, Richard H., to Dow Chemical Company, The. Process for flameproofing cellulosic textile fabrics and product obtained thereby. 3,676,054, 7-11-72, Cl. 8-116.200.
 Symmank, William D., to Case, J. I., Company. Mobile excavator with adjustable boom. 3,680,722, 8-1-72, Cl. 214-138.00r.
 Symmes, David T.: See—
 Chace, Donald E.; Melvin, James A., Jr.; Ricketts, Alan W., Jr.; Steinberger, Edward P.; and Symmes, David T., 3,701,113.
 Symmes, Paul S., to American Clinic, Inc. Methods and means for inducing hypnosis. 3,656,760, 4-18-72, Cl. 274-1.
 Symmes, Paul S., to American Clinic, Inc. Adjustable electrode means for a sleep inducing machine. 3,669,119, 6-13-72, Cl. 128-410.
 Symmons Industries, Incorporated, mesne: See—
 Symmons, Paul C., 3,638,678.
 Symmons, Paul C., to Symmons Industries, Incorporated, mesne. Duplex valve. 3,638,678, 2-1-72, Cl. 137-595.
 Symonds, Paul S.: See—
 Radnich, Spencer I.; Davelman, Samuel; Symonds, Paul S.; and Taylor, Willis H., 3,665,857.
 Symonds, Willard G., to Eastman Kodak Company. Apparatus for severing a sheet. 3,672,252, 6-27-72, Cl. 83-582.000.
 Symoniak, Martin Francis; Torke, David Allen; and Holmes, Ervine Stout, to Union Carbide Corporation. Isoparaffin-n-paraffin separation process. 3,700,589, 10-24-72, Cl. 208-310.000.
 Symons Corporation: See—
 Dagiel, Richard T.; and Cody, David L., 3,661,354.
 Pipala, Dennis R., 3,647,173.
 Shoemaker, James C., 3,653,628.
 Shoemaker, James C., 3,655,162.
 Shoemaker, James C., 3,690,613.
 Shoemaker, James C., 3,693,928.
 Shoemaker, James C., 3,698,680.
 Symons Mfg. Company: See—
 Maynen, James D.; and Bowden, George F., 3,664,630.
 Symons, Michael: See—

Ingham, William Ellis; Symons, Michael; and Murden, Peter, 3,643,215.
 Symons, Robert S.; Staprans, Armand; and Butwell, Robert J., to Varian Associates. Coupled cavity slow wave circuit and tube using same. 3,668,459, 6-6-72, Cl. 315-3.500.
 Synalloy Corporation: See—
 Carpenter, William T., 3,685,325.
 Synanon Foundation, Inc.: See—
 Dederich, William J.; and Scar, Howard S., 3,650,532.
 Syncro Corporation: See—
 Crouch, Thomas J.; and Gynn, George E., 3,704,397.
 Garstang, William W., 3,691,433.
 Surgeon, Edward G., 3,704,042.
 Syncro-Motion Corporation: See—
 Cleary, Robert A.; and Mort, Paul R., Jr., 3,682,743.
 Synergetics Research, Inc.: See—
 Harris, Robert B.; and MacDonald, John A., 3,665,338.
 Synergistic Systems, Inc.: See—
 Naylor, John J., 3,686,494.
 Synergistic Industries, Inc.: See—
 Kajioka, Benjamin T., 3,632,547.
 Synergistics, Inc.: See—
 Halpern, Alfred, 3,671,545.
 Halpern, Alfred, 3,687,855.
 Wallace, John G.; and Schreiner, Edmund, 3,644,932.
 Synnestvedt, Don A., to Ajax Magnethermic Corporation. Support means for induction coil. 3,704,336, 11-28-72, Cl. 13-27.000.
 Synowka, Theodore W. Digital antenna scan pattern generator. 3,634,886, 1-11-72, Cl. 340-347.
 Synstad, Alvin R.; Burges, Luther M.; and Day, Paul P., to United States of America, Navy. Threaded ring turning device. 3,696,495, 10-10-72, Cl. 29-240.000.
 Syntak Company, Ltd.: See—
 Ishii, Shogo, 3,706,316.
 Syntex Corporation: See—
 Albrecht, Hans; and Moffatt, John G., 3,658,786.
 Alvarez, Francisco, 3,642,780.
 Alvarez, Francisco, 3,663,584.
 Alvarez, Francisco, 3,694,476.
 Alvarez, Francisco S., 3,637,767.
 Berkosz, Belig M., 3,644,340.
 Crabbe, Pierre; and Biollaz, Michel S., 3,658,856.
 Crabbe, Pierre; and Velarde, Esperanza, 3,681,410.
 Crabbe, Pierre; and Graf, Ulrich Werner, 3,682,984.
 Cross, Alexander D., 3,634,409.
 Cross, Alexander D.; and Fried, John H., 3,636,072.
 Cross, Alexander D., 3,637,671.
 Cross, Alexander D., 3,644,421.
 Cross, Alexander D., 3,647,806.
 Dorfman, Ralph I., 3,658,961.
 Dyson, Norman H., 3,686,183.
 Edwards, John A., 3,636,071.
 Edwards, John A.; and Fried, John H., 3,657,329.
 Edwards, John A.; Fried, John H.; and McCrae, William, 3,674,816.
 Edwards, John A.; and Fried, John H., 3,681,427.
 Edwards, John A., 3,696,129.
 Edwards, John A.; and Fried, John H., 3,702,853.
 Edwards, John A.; and Fried, John H., 3,706,784.
 Edwards, John A.; and Ackrell, Jack, 3,707,490.
 Ellis, David J.; and Rammler, David, 3,652,564.
 Fried, John; and Harrison, Ian T., 3,663,713.
 Fried, John H., 3,637,670.
 Fried, John H., 3,639,428.
 Fried, John H.; and Harrison, Ian T., 3,641,161.
 Fried, John H., 3,644,341.
 Fried, John H., 3,652,596.
 Fried, John H.; Edwards, John A.; and McCrae, William, 3,652,657.
 Fried, John H.; and Crabbe, Pierre, 3,654,321.
 Fried, John H., 3,658,789.
 Fried, John H., 3,658,841.
 Fried, John H., 3,658,847.
 Fried, John H., 3,658,854.
 Fried, John H., 3,661,943.
 Fried, John H., 3,681,391.
 Fried, John H., 3,683,006.
 Ginsig, Robert, 3,647,831.
 Halpern, Berthold, 3,637,730.
 Harrison, Ian T., 3,651,106.
 Harrison, Ian T., 3,651,149.
 Harrison, Ian T., 3,652,683.
 Harrison, Ian T., 3,658,858.
 Harrison, Ian T., 3,658,863.
 Henrick, Clive A.; Edwards, John A.; and Fried, John H., 3,682,970.
 Henrick, Clive A.; Edwards, John A.; and Fried, John H., 3,686,215.
 Marx, Michael; and Fried, John H., 3,706,781.
 McCrae, William; Fried, John H.; and Edwards, John A., 3,639,462.
 McCrae, William; Fried, John H.; and Edwards, John A., 3,658,916.
 Moffatt, John G., 3,641,055.
 Moffatt, John G.; and Jones, Gordon H., 3,662,031.
 Nelson, Peter H., 3,651,148.
 Nelson, Peter H., 3,681,432.
 Rosenkranz, George; and Crabbe, Pierre, 3,644,367.
 Russell, Alan F.; Greenberg, Seymour; and Moffatt, John G., 3,658,787.
 Sickles, John S., 3,651,227.
 Spicer, Courtland K.; and Birmingham, John M., 3,657,297.
 Talbot, Meldon L.; and Foster, Theodore T., 3,673,232.
 Throop, Lewis J., 3,674,778.
 Verheyden, Julien P.; and Moffatt, John G., 3,687,931.
 Wang, Kuang-Chao, 3,687,813.
 Zaffaroni, Alejandro, 3,686,238.
 Synthetic Products Company: See—
 Bergman, Kenneth C.; and Jennings, Thomas C., 3,639,319.
 Ludwig, Jerome H., 3,660,442.
 Syntron (Canada) Limited: See—
 Krajewski, Werner; and Nahirny, John, 3,648,136.
 Synvar Associates: See—
 Becher, Jan; and Ullman, Edwin F., 3,706,537.
 Boocock, David G. B.; and Ullman, Edwin F., 3,697,538.
 Gamble, Fred R., 3,688,109.
 Leute, Richard K.; and Ullman, Edwin F., 3,697,535.
 McConnell, Harden M.; and Ullman, Edwin F., 3,668,214.
 McConnell, Harden M.; and Ullman, Edwin F., 3,673,207.
 Ullman, Edwin F., 3,689,391.
 Syoji, Ishiguro: See—
 Ohi, Reiichi; Kondo, Tokiharu; Sugiyama, Mitsunori; and Syoji, Ishiguro, 3,635,717.
 Syracuse Electronics Corporation: See—
 Kadah, Zaghoul; and Rolland, Gerard, 3,633,047.
 Syracuse University Research Corporation: See—
 Harris, Paul E.; and Mader, George E., 3,680,098.
 Ho, Pauline P., 3,649,568.
 Syre, Robert: See—
 Frenkel, Jean-Mathieu; Logerot, Jean-Marie; Petrequin, Pierre; Syre, Robert; and Weisz, Michel, 3,685,988.
 Syria, Ronald L.: See—
 Verner, Dalton R.; and Syria, Ronald L., 3,697,719.
 Syrjanen, Ahti, to Jylhavaara Osakeyhtio. Pressure strainer device. 3,672,506, 6-27-72, Cl. 209-273.000.
 Syrop, Leroy J., to Del Mar Engineering Laboratories. Process for recrystallizing hexanitrostilbene. 3,699,176, 10-17-72, Cl. 260-645.000.
 Syrovatka, Rudolf: See—
 Boldingh, Jan; Heslinga, Lammert; Schmidl, Ernst; and Syrovatka, Rudolf, 3,686,127.
 Sysenko, Anatoly Pavovich: See—
 Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamonov, Viktor Leonidovich; Borisovich, Kiev, Alexandr; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikailovich; Shevisov, Anatoly Ivanovich; Grinsnpon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toshev, Alexandr Mikhaivich, 3,687,188.
 Syskov, Konstantin Ivanovich: See—
 Makarov, Gleb Nikolaevich; Zhitov, Boris Nikolaevich; Zagorets, Anatoly Mikhailovich; Korolev, Jury Germanovich; Syskov, Konstantin Ivanovich; Filonenko, Jury Yakovlevich; Dvorin, Semen Semenovich; Lerner, Ruvim Zinovievich; Mustafin, Fuat Akhtemovich; Semnov, Alexandr Semenovich; Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich, 3,667,746.
 Syssoev, Vadim Ivanovich: See—
 Sokolov, Evgeny Vyacheslavovich; Yashkin, Eduard Petrovich; Syssoev, Vadim Ivanovich; Kozhevnikov, Rady Savvich; Chabanov, Alim Ivanovich; Shinkarenko, Mikhail Ivanovich; Grinchuk, Petr Stepanovich; Fomin, Georgy Georgievich; and Rusaev, Vladimir Ivanovich, 3,686,907.
 System Development Corporation: See—
 Vlahos, Petro, 3,683,325.
 Systematic Multi-Level Parking Company: See—
 Sanders, Duane V., 3,679,083.
 Systematic Research & Development Corporation: See—
 Brillaud, Andre R.; and Gallin, Lawrence F., 3,706,140.
 Systematics, Inc.: See—
 Grabhorn, Robert H., 3,633,566.
 Grabhorn, Robert H., 3,683,850.
 Kuehn, Andrew, III, 3,654,910.
 Kuehn, Andrew, III, 3,684,988.
 Systems Capital Corporation: See—
 Connell, Joseph A.; and Baranyi, Anthony J., 3,701,262.
 Systems Design Company, Inc.: See—
 Sorenson, Gerald T., 3,680,593.
 Sorenson, Gerald T., 3,688,797.
 Systems Research Laboratories, Inc.: See—

- Taylor, Francis M., 3,646,475.
Systems Resources Corporation: *See—*
Cohen, William David, 3,635,385.
Systems Technology, Inc.: *See—*
Jex, Henry R., 3,664,731.
Systemation, Inc.: *See—*
Stanford, Melvin E., 3,636,440.
Systemetics Incorporated: *See—*
Schaffner, Charles A., 3,684,871.
Syston-Donner Corporation: *See—*
Ajmani, Mohan; DeLowe, Larry K.; and Hankins, Thomas C., 3,662,383.
Hankins, Thomas C.; and Barleen, David Glen, 3,638,210.
Morris, Harold D., 3,646,543.
Morris, Harold D., 3,665,769.
Morris, Harold D.; and Barlak, Andrew B., Jr., 3,707,091.
Peters, Tex B., 3,633,053.
Sage, Bradley B.; and Kase, Heino, 3,682,003.
Syston-Donner Corporation, *mesne*: *See—*
Missio, Danilo V.; Wollman, Herbert; and Englander, Irving G., 3,690,767.
Systronics Incorporated: *See—*
Reynal, Thomas J., 3,656,066.
Sysun, Viktor Viktorovich; Skvortsov, Boris Vasilievich; Basov, Jury Georgievich; and Roldugin, Vladimir Ivanovich. Gas-dynamic discharge light source. 3,703,658, 11-21-72, Cl. 313-113.000.
Syva Company, *mesne*: *See—*
Goldstein, Avram; Leute, Richard K.; and Ullman, Edwin F., 3,690,834.
Syversen, Finn Kohler. Combined feeding and sorting device for sheet material. 3,696,926, 10-10-72, Cl. 209-122.000.
Syversen, James. License plate security locking device. 3,685,188, 8-22-72, Cl. 40-201.000.
Syverson, Charles D., to Kohler Co. Brushless alternating current generator. 3,676,764, 7-11-72, Cl. 322-51.000.
Syverson, Lowell W.: *See—*
Coleman, William S.; McGraw, Michael J.; and Syverson, Lowell W., 3,645,367.
Syverson, Martelle J., to Fountain Industries, Inc. Vending machine coin mechanism. 3,692,165, 9-19-72, Cl. 194-13.000.
Syverson, Albert. Locking device for a doorknob lock. 3,660,996, 5-9-72, Cl. 70-209.
Szabo, Andras I.: *See—*
Diaz, Richard A.; and Szabo, Andras I., 3,707,713.
Sarkozi, Miklos; Szabo, Andras I.; and Hite, Perry J., 3,697,896.
Szabo, Andras I.; and Winkler, Charles L., to Westinghouse Electric Corporation. Switching techniques and devices. 3,651,892, 3-28-72, Cl. 187-29.
Szabo, Andras I., to Westinghouse Electric Corporation. Differential amplifier with common mode rejection. 3,652,949, 3-28-72, Cl. 330-30.
Szabo, Andras I.; and Sarkozi, Miklos, to Westinghouse Electric Corporation. Common mode noise cancellation system. 3,705,365, 12-5-72, Cl. 333-12.000.
Szabo, Bela G.: *See—*
Marks, Lou F.; and Szabo, Bela G., 3,656,594.
Szabo, Bela G. Defrost evincing devices. 3,702,077, 11-7-72, Cl. 73-358.000.
Szabo, Elek: *See—*
Horvath, Aurel; Repasi, Gellert; Szabo, Elek; and Vorsatz, Bruno, 3,661,559.
Szabo, Ernest B. Insert tool holder and cutting tool therefor. 3,633,258, 1-11-72, Cl. 29-105.
Szabo, Gyorgy; and Toth, Sandor, to Licencia Talalmanyokat Ertekesito Vallalat. Process for producing pliable air permeable laminar material. 3,687,775, 8-29-72, Cl. 156-306.000.
Szabo, J. Lester: *See—*
Childress, Scott J.; and Szabo, J. Lester, 3,641,114.
Szabo, Karoly; and Freiberg, Ashley H., to Stauffer Chemical Company. Method of inhibiting the growth of fungi by applying a complex of organic amine with a completely halogenated acetone. 3,639,629, 2-1-72, Cl. 424-325.
Szabo, Karoly, to Esso Research and Engineering Company. Phosphorus-containing thiomorpholinones. 3,691,163, 9-12-72, Cl. 260-243.000.
Szabo, Louis R.: *See—*
Kisatsky, Paul J.; and Szabo, Louis R., 3,645,633.
Smith, Chester L.; and Szabo, Louis R., 3,667,850.
Szabo, Ted T.: *See—*
Nauman, Edward B.; Szabo, Ted T.; Klosek, Felix P.; and Kaufman, Stephen, 3,668,161.
Szala, Norman M.: *See—*
O'Neill, Thomas J.; Szala, Norman M.; and Van Der Sluys, William, 3,631,817.
Van Der Sluys, William; O'Neill, Thomas J.; and Szala, Norman M., 3,572,309.
Szalla, Frank J.: *See—*
Kitchen, Alonzo G.; and Szalla, Frank J., 3,639,517.
Szasz, Imre, to Graco Inc. Device for the electrostatic application of protective coatings with synthetic powders by the use of spray guns. 3,698,636, 10-17-72, Cl. 239-15.000.
- Szatkowski, Ryszard: *See—*
Schwartz, Jerome; and Szatkowski, Ryszard, 3,657,908.
Sztamari, Gabor. Capacitive inductive winding. 3,688,232, 8-29-72, Cl. 336-69.000.
Szczepanski, Harry. Buoyant filter mass. 3,648,439, 3-14-72, Cl. 55-223.
Sze, Morgan C.: *See—*
Banchik, Ira N.; Sze, Morgan C.; and Maddock, Maldwin J., 3,645,701.
Riegel, Herbert; Schindler, Harvey D.; Sze, Morgan C.; and Brooks, Maurice E., 3,637,895.
Riegel, Herbert; Schindler, Harvey D.; and Sze, Morgan C., 3,641,157.
Riegel, Herbert; Schindler, Harvey D.; and Sze, Morgan C., 3,652,638.
Sze, Morgan C.; Bauer, William V.; Long, Raymond H.; Bloomer, Ward J.; and Whitehead, Richard T., to Lummus Company, The. Process for the production of highly prerduced oxide pellets. 3,642,465, 2-15-72, Cl. 75-4.
Sze, Morgan C.; Unger, Harold; and Bennett, Thomas M., to Lummus Company, The. Delayed coking of pyrolysis fuel oils. 3,687,840, 8-29-72, Cl. 208-131.000.
Sze, Simon Min: *See—*
Coleman, Donald James, Jr.; and Sze, Simon Min, 3,673,514.
Szedon, John R.: *See—*
Chu, Ting L.; Gruber, Gilbert A.; and Szedon, John R., 3,652,324.
Szevari, Andrew. Method and apparatus for comminuting and reacting solids. 3,670,970, 6-20-72, Cl. 241-27.000.
Szeike, Michael: *See—*
Danilewicz, John C.; and Szeike, Michael, 3,694,504.
Szekely, Otto E., to Power Flo Products Incorporated. Variably controlled planetary drive structure and method. 3,678,786, 7-25-72, Cl. 74-782.000.
Szeles, Marcel. Anti-glare headlights. 3,643,081, 2-15-72, Cl. 240-7.1.
Szeluga, Ludwick, to Veeder Industries Inc. Resettable counter. 3,643,072, 2-15-72, Cl. 235-144.
Szempruch, Robert S.: *See—*
Giardini, Dante S.; and Szempruch, Robert S., 3,673,740.
Szempruch, Walter T.: *See—*
Dali, Carmelo P.; and Szempruch, Walter T., 3,682,171.
Szenasi, Sandor: *See—*
Reiter, Gyorgy; Szenasi, Sandor; Toth, Bela; and Rakosi, Ferec, 3,652,940.
Szente, Andre: *See—*
Hellerbach, Joseph; Szente, Andre; and Walser, Armin, 3,657,223.
Hellerbach, Joseph; Szente, Andre; and Walser, Armin, 3,671,518.
Hellerbach, Joseph; and Szente, Andre, 3,696,095.
Szente, Pedro A.; and Joly, Robert, to Hewlett-Packard Company. Wide band stop band filter including a ferrite region biased by a graded magnetic field. 3,671,888, 6-20-72, Cl. 333-73.000.
Szentmiklosi, Peter: *See—*
Meszaros, Zoltan; Knoll, Jozsef; and Szentmiklosi, Peter, 3,696,197.
Szepesi, Zoltan P. J.; and Novice, Michael A., to Westinghouse Electric Corporation. Electroluminescent display panel. 3,650,824, 3-21-72, Cl. 117-212.
Szepesy, Laszlo: *See—*
Nagy, Zoltan; Szepesy, Laszlo; Kovacs, Attila; and Sebestyen, Zsigmond, 3,644,555.
Szerejko, Walter J.: *See—*
Bock, Herbert G.; and Szerejko, Walter J., 3,673,762.
Szerszamgepipari Muvek: *See—*
Pecze, Andras; Suto, Laszlo; and Banoczi, Zoltan, 3,651,715.
Szetela, Eugene J., to United Aircraft Corporation. Variable depth etching process. 3,666,634, 5-30-72, Cl. 204-15.000.
Szewalski, Robert. Method of improving the power cycle efficiency of a steam turbine for supercritical steam conditions. 3,683,621, 8-15-72, Cl. 60-74.000.
Szigeth, Laszlo, to Lonza Ltd. Method for the catalytic hydrogenation of organic nitro derivatives in the gaseous state to corresponding amines. 3,636,152, 1-18-72, Cl. 260-580.
Szilagyi, John: *See—*
Connelly, William; Sydenham, Leonard; and Szilagyi, John, 3,694,388.
Szinai, Stephen S.; and Lunn, William H.W., to Lilly, Eli, and Company. Adamantane compounds. 3,668,220, 6-6-72, Cl. 260-326.110.
Szinai, Stephen Slomo: *See—*
Chakrabarti, Jiban Kumar; and Szinai, Stephen Slomo, 3,644,356.
Szita, Jeno; Bahr, Ulrich; Marzolph, Herbert; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Acrylonitrile copolymers containing sulfonic acid groups. 3,666,722, 5-30-72, Cl. 260-49.
Szklarz, Eugene G.: *See—*
Giorgi, Angelo L.; and Szklarz, Eugene G., 3,694,274.
Szkudlapski, Alfons H.: *See—*

- Rackus, John J.; Skilbeck, John P.; and Szkudlapski, Alfons H., 3,692,638.
Szma, Masato: *See—*
Oda, Teishiro; Nakamura, Makoto; and Szma, Masato, 3,661,658.
Szmokaluk, Wallace W.: *See—*
Cook, Lorne F.; and Szmokaluk, Wallace W., 3,666,446.
Szmuszkowicz, Jacob, to Upjohn Company, The. Substituted phenyl 2-piperidinocycloalkyl ketones. 3,632,813, 1-4-72, Cl. 260-294.7.
Szmuszkowicz, Jacob, to Upjohn Company, The. Compositions and methods for lowering blood sugar levels. 3,651,232, 3-21-72, Cl. 424-267.
Szmuszkowicz, Jacob, to Upjohn Company, The. Diaminocycloalkanes. 3,652,559, 3-28-72, Cl. 260-247.5.
Szmuszkowicz, Jacob, to Upjohn Company, The. 2,3-Bis(p-methoxyphenyl)-indole-5-carboxylic acid derivatives. 3,654,308, 4-4-72, Cl. 260-326.13.
Szmuszkowicz, Jacob; and Cerda, Elisabeth, to Upjohn Company, The. 1,3 Bis(bicycloalkyl) ureas. 3,657,338, 4-18-72, Cl. 260-553.
Szmuszkowicz, Jacob, to Upjohn Company, The. 1, 3-Aminoalcohols. 3,668,199, 6-6-72, Cl. 260-239.000.
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Dyer, Gerald B.; and Szpak, Edwin, 3,666,151.
Szpitalak, Wesley J., to Continental Can Company, Inc. High speed can printing machine. 3,683,799, 8-15-72, Cl. 101-40.000.
Szporny, Laszlo: *See—*
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Szporny, Laszlo: *See—*
Bernath, Gabor; Kovacs, Kalman; Palosi, Eva; Gorog, Peter; and Szporny, Laszlo, 3,654,360.
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Miles, Ray P.; and Szucs, Andrew E., 3,691,576.
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Szucs, Robert J., to Borg-Warner Corporation. Hospital bed. 3,678,519, 7-25-72, Cl. 5-62.000.
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Szumachowski, Edwin R.: *See—*
Delong, William T.; Szumachowski, Edwin R.; and Heverly, Harold R., 3,704,149.
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Szyfter, Bruno. Floatable breakwater element. 3,673,805, 7-4-72, Cl. 61-5.000.
Szymanski, Aleksander: *See—*
Rozwadowski, Witold; and Szymanski, Aleksander, 3,641,878.
Rozwadowski, Witold; and Szymanski, Aleksander, 3,686,856.
Szymanski, Chester D., to National Starch and Chemical Corporation. Novel converting starch. 3,635,741, 1-18-72, Cl. 106-213.
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T & E Manufacturing Company: *See—*
Burgess, Ronald, 3,648,571.
T. & T. Vickers Limited: *See—*
Crispe, Stanley William; and Wood, Henry, 3,642,114.
T & W Manufacturing Corporation: *See—*
Tarter, Carl M., 3,683,873.
T. I. (Group Services) Limited: *See—*
Whittington, Keith Richard, 3,693,415.
T. M. M. (Research) Limited: *See—*
Ormerod, Reginald; and Motler, Richard, 3,695,021.
T. O. Plastics: *See—*
Paulsen, Glen E., 3,646,684.
T. O. Plastics, Inc.: *See—*
Lau, John F., Jr.; and Paulsen, Glen E., 3,638,827.
T. V. Manufacturing Limited: *See—*
Ayers, Peter John Henry, 3,665,270.
T-Bar Incorporated: *See—*
Lambert, James B.; Seiden, Lewis J.; and Morgan, Henry A., 3,689,856.
Tabankin, Phyllis. Sequentially-operable hidden camera device. 3,672,269, 6-27-72, Cl. 95-11.
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Tabary, Jean, to Lebon & Cie (Cie Centrals d'Eclairage par l'Gas). Storage of fluids. 3,683,628, 8-15-72, Cl. 61-500.
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Michellone, Giancarlo; Palazzetti, Mario; and Tabasso, Giovanni, 3,707,313.
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Tabata, Masaaki: *See—*
Susami, Kozo; Minami, Keiichi; Tabata, Masaaki; Kojima, Teiryu; and Yunoki, Zuyui, 3,660,973.
Tabata, Norikazu: *See—*
Nomaguchi, Tamotsu; Tabata, Norikazu; and Ito, Toshio, 3,685,950.
Tabata, Norimasa: *See—*
Tabata, Hisanobu; Tabata, Norimasa; and Nakajima, Rokuro, 3,676,067.
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Tabayanagi, Seiichi: *See—*
Kobayashi, Tetsuji; and Tabayanagi, Seiichi, 3,670,719.
Tabenkin, Benjamin: *See—*
Berger, Julius; Epps, Richard H.; Jenkins, Edward M.; and Tabenkin, Benjamin, 3,663,373.
Taber, David: *See—*
Jungermann, Eric; Taber, David; and Raphaelian, Leo A., 3,652,767.
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Zakaria, Moneeb H.; Raphaelian, Leo A.; Taber, David; and Brown, James, Jr., 3,703,471.
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Brooker, Leslie G. S.; Daniel, Daniel S.; and Taber, Robert C., 3,639,127.
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Taber, Robert C.; and Koller, James E., to Eastman Kodak Company. Direct-positive photographic elements containing multiple layers. 3,647,463, 3-7-72, Cl. 96-68.

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- Tabet, Michael A., 3,673,484.
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- Tabisz, Sylvester C.: *See—*
- Geffe, Philip R.; and Tabisz, Sylvester C., 3,689,848.
- Tabke, Robert S.: *See—*
- Mitchell, Reid L.; Muller, Thomas E.; Stevens, Hugh D.; and Tabke, Robert S., 3,670,069.
- Tabler, Donald C.: *See—*
- Johnson, Marvin M.; and Tabler, Donald C., 3,676,332.
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- Tabler, Donald C., to Phillips Petroleum Company. Molybdenum-antimony hydrogenation catalyst. 3,651,158, 3-21-72, Cl. 260-667.
- Tabler, Donald C.; and Johnson, Marvin M., to Phillips Petroleum Company. Dehydrocyclization of hydrocarbons. 3,651,164, 3-21-72, Cl. 260-673.5.
- Tabler, Donald C.; and Johnson, Marvin M., to Phillips Petroleum Company. Disproportionation of alkylbenzenes. 3,668,265, 6-6-72, Cl. 260-672.
- Tabler, Donald C., to Phillips Petroleum Company. Hydrocarbon dehydrogenation employing metal antimonide catalysts. 3,676,513, 7-11-72, Cl. 260-668,000.
- Tabler, Donald C., to Phillips Petroleum Company. Semi-homogeneous liquid suspension catalyst complex for selective hydrogenation. 3,692,852, 9-19-72, Cl. 260-666,00a.
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- Greenspan, Gilbert; Curtis, Lawrence R.; Cunningham, Elmer E.; and Tabler, James G., 3,678,277.
- Tabor, John R., to Mining Equipment Manufacturing Corporation. Tunneling machine with tandem spoil barriers. 3,667,808, 6-6-72, Cl. 299-33.
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- Tabor, Paul C., to Meteor Research Limited. Rod and clevis assembly. 3,687,488, 8-29-72, Cl. 287-59,000.
- Tabor, Theodore E.; Farber, Hugh A.; and Vivian, Thomas A., to Dow Chemical Company, The. Method and compositions for treating flexible substrates. 3,658,575, 4-25-72, Cl. 117-102.
- Tabuchi, Hideho: *See—*
- Ishimatsu, Kenji; and Tabuchi, Hideho, 3,633,478.
- Tabuchi, Ichiro; Iwami, Akira; Harita, Yasuhiro; and Yamamoto, Toshiaki, to Mitsui Shipbuilding and Engineering Co., Ltd. Container supporting apparatus in the container ship. 3,669,284, 6-13-72, Cl. 214-10.5.
- Tabuchi, Ichiro; and Harita, Yasuhiro, to Mitsui Shipbuilding and Engineering Co., Ltd. Apparatus for fixing containers in the ship. 3,680,518, 8-1-72, Cl. 114-72,000.
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- Tachibana, Sachihiko; Nakai, Susumu; Makino, Yoichi; Matsumura, Hisashi; Tabuchi, Kimitaka; Hiraoka, Michio; Akoh, Shigeichi; and Orito, Hiroshi, 3,644,078.
- Taburinsky, Grigory Semenovich; Gutterman, Eduard Mikhailovich; and Fain, Arnold Izrailevich, to Vsesojuzny Nauchno-Issledovatel'sky Institut liteinogo maschinostroenia liteinoi tekhnologii i Avtomati. Sandslinger head. 3,682,231, 8-8-72, Cl. 164-198,000.
- Taccone, Russell W. Cooling conveyor. 3,659,701, 5-2-72, Cl. 198-221.
- Taccone, Russell W., to Bangor Punta Operations, Inc. High impact molding machine. 3,692,093, 9-19-72, Cl. 164-212,000.
- Taccone, Russell W., to Bangor Punta Operations, Inc. Mold forming apparatus. 3,695,339, 10-3-72, Cl. 164-213,000.
- Tacey, Charles Arthur, to Philograph Publications Limited. Didactic apparatus. 3,636,230, 1-18-72, Cl. 35-34.
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- Tachick, Henry N., to General Electric Company. Solid state voltage and fault detector means having integral circuit integrity indicators. 3,639,833, 2-1-72, Cl. 324-51.
- Tachick, Henry N., to General Electric Company. Handling means for a cable termination housing having stress isolating means between the housing and the handling means. 3,646,503, 2-29-72, Cl. 339-110.
- Tachick, Henry N.; and Belcher, James E., to General Electric Company. Support means for pivotally mounting a power cable termination housing. 3,662,297, 5-9-72, Cl. 339-60.
- Tachida, Hiroki, to Nippon Gakki Seizo Kabushiki Kaisha. Hammer flange mounting structure for use in piano. 3,696,699, 10-10-72, Cl. 84-25,00.
- Tachikawa, Kyoji; Tanaka, Yoshiaki; and Fukuda, Satoshi, to National Research Institute for Metals, Director of. Superconductor and its manufacturing method. 3,674,553, 7-4-72, Cl. 117-217,000.
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- Asaeda, Takashi, 3,632,721.
- Asaeda, Takashi, 3,632,722.
- Asaeda, Takashi, 3,632,723.
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- Tack, Carl E., to Amsted Industries Incorporated. Articulated car auxiliary center bearing. 3,635,168, 1-18-72, Cl. 105-4.
- Tack, Carl E.; and Rodgers, Loyal J., to Amsted Industries Incorporated. Articulated railroad car connection. 3,646,604, 2-29-72, Cl. 105-4.
- Tacke, Peter; Binsack, Rudolf; and Weissel, Oskar, to Farbenfabriken Bayer Aktiengesellschaft. 2,2',4,4'-Tetrachloro-5,5'-diamino-diphenyl ether. 3,673,123, 6-27-72, Cl. 260-571,000.
- Tackett, Raymond W., to Burroughs Corporation. Luminous gas alphanumeric display device. 3,673,451, 6-27-72, Cl. 313-109,500.
- Tackle and Gear, Inc.: *See—*
- Niles, Burton M., 3,691,665.
- Taco, Inc.: *See—*
- Piette, Leonard A., 3,686,945.
- Tacquet, Maurice: *See—*
- Giegau, Yves; and Tacquet, Maurice, 3,688,986.
- Taczak, William J., Jr., to United States of America, Navy. Two-color radiometer. 3,699,339, 10-17-72, Cl. 250-83,30h.
- T.A.D. Avanti, Inc.: *See—*
- Bonsky, Elmer C., 3,679,831.
- Tada, Fusao; Inamine, Seiei; and Hatanaka, Tsutomu, to Sakai Chemical Industry Co., Ltd. Process for manufacturing trialkyl phosphites. 3,674,897, 7-4-72, Cl. 260-976,000.
- Tada, Haruhiko: *See—*
- Sawa, Yoshiro; Maeda, Ryojo; and Tada, Haruhiko, 3,654,280.
- Tada, Kiyoyuki, to Sanyo Electric Co., Ltd. Information output system. 3,662,346, 5-9-72, Cl. 340-172,500.
- Tada, Shoji: *See—*
- Nagai, Nobuo; Tada, Shoji; and Ujita, Katsu, 3,649,875.
- Yamada, Naoya; and Tada, Shoji, 3,662,221.
- Tada, Shotaro: *See—*
- Kurauchi, Noritaka; Tada, Shotaro; Shima, Hiroshi; Hiraoka, Susumu; Nagao, Taichiro; Koyama, Masahiro; Shiraiishi, Satoshi; Shindo, Masuo; and Kobayashi, Yoshinobu, 3,674,990.
- Tada, Tetsuya. Hand sprayer. 3,701,478, 10-31-72, Cl. 239-333,000.
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- Tada, Yoshiharu; and Sawada, Minoru, to Diesel Kiki Kabushiki Kaisha. Electronic governor for fuel-injection type internal combustion engines. 3,695,242, 10-3-72, Cl. 123-102,000.
- Tadahira, Kenich; and Kojima, Jiro, to Taisei Kensetsu Kabushiki Kaisha. Device for tightening a nut and bolt assembly. 3,633,446, 1-11-72, Cl. 81-57,46.
- Tadashi, Ito: *See—*
- Takashi, Uchiyama; Tadashi, Ito; and Mutsuhide, Matsuda, 3,683,769.
- Taddei, Carlo, to Seal Spout Europe S.p.A. Machine for applying pouring spouts to containers. 3,673,663, 7-4-72, Cl. 29-200,00a.
- Taddei, Romano, to Olivetti, Ing. C., & C., S.p.A. Electronic recirculating stores. 3,634,832, 1-11-72, Cl. 340-172.5.
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- Tadedda Chemical Industries, Ltd.: *See—*
- Ishii, Kiyofumi; Toda, Jun; Aoki, Hisashi; and Wakabayashi, Hidep, 3,653,923.
- Tadema, Harco J.: *See—*
- Bezemer, Cornelis; Tadema, Harco J.; and Houbolt, Jacob J.H.C., 3,700,593.
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- Tadie, Andre Francis. Motion-pictures projection device. 3,694,060, 9-26-72, Cl. 352-14,000.
- Tadini, Costantino: *See—*
- Ullmann, Werner; Tadini, Costantino; and Salim, Ehsan, 3,655,937.
- Tadokoro, Tomoo, to Toyo Kogyo Co., Ltd. Reactor for internal combustion engine. 3,653,205, 4-4-72, Cl. 60-29.
- Tadokoro, Tomoo; Hayashida, Motoyuki; and Yoshimura, Shigetake, to Toyo Kogyo Co., Ltd. Exhaust gas purification system for internal combustion engine. 3,657,893, 4-25-72, Cl. 60-289.
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- Tadokoro, Toyotoshi, to Furubayashi Kogyo Kabushiki Kaisha. Method and apparatus for forming valve bodies. 3,681,960, 8-8-72, Cl. 72-61,000.
- Taeger, Joachim, to Fried. Krupp Gesellschaft mit beschränkter Haftung. Device for cleaning magnetic filters. 3,631,985, 1-4-72, Cl. 210-222.
- Tafapolsky, Bernard, to Gillette Company, The. Processes for sharpening razor blades. 3,696,013, 10-3-72, Cl. 204-129,550.
- Tafel, Leonard I., to North American Rockwell Corporation. Cooling roll. 3,633,663, 1-11-72, Cl. 165-89.
- Tafel, Leonard I., to North American Rockwell Corporation. Registry mechanism for printing units. 3,641,933, 2-15-72, Cl. 101-181.
- Tafel, Leonard I., to North American Rockwell Corporation. Means for oscillating and silencing a ductor roller in a printing press. 3,698,313, 10-17-72, Cl. 101-350,000.
- Tafel, Leonard Immanuel, to Miehle-Goss-Dexter, Incorporated. Drive and interrupter arrangement for rotary offset press. 3,633,503, 1-11-72, Cl. 101-218.
- Taft, David D., to Ashland Oil, Inc. Method for preparing a water-dispersible acrylic copolymer. 3,661,827, 5-9-72, Cl. 260-29,6mn.
- Taft, William G., to Westinghouse Electric Corporation. Hydrostatic reactor cavity seal. 3,633,784, 1-11-72, Cl. 220-13.
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- Kono, Harry W., 3,651,503.
- Taga, Jun. Method for extruding into cavities defined by a fixed plates and moving metal molds a foamable on non-foamable thermoplastic polymeric resin. 3,689,612, 9-5-72, Cl. 264-48,000.
- Taga, Koji; and Noguchi, Masahiko, to Konoshima Chemical Co., Ltd. Manufacturing method for high purity synthetic cryolite from crude wet process phosphoric acid. 3,676,061, 7-11-72, Cl. 23-88,000.
- Taga, Koji; and Noguchi, Masahiko, to Konoshima Chemical Co., Ltd. Manufacturing method for pure synthetic cryolite. 3,676,062, 7-11-72, Cl. 23-88,000.
- Tagawa, Hazime, to Matsushita Electronics Corporation. Glow discharge tube for code display. 3,641,383, 2-8-72, Cl. 313-109.5.
- Tagawa, James M.: *See—*
- Stahlberg, Eugene G.; Tagawa, James M.; and Tiao, Hui-Li, 3,686,470.
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- Tagawa, Katuhiko, to Nissan Motor Company, Limited. Liquefied fuel gas container. 3,659,742, 5-2-72, Cl. 220-86,00r.
- Tagawa, Takao, to Sharp Kabushiki Kaisha. Electrostatic printing apparatus. 3,673,599, 6-27-72, Cl. 346-74,0cr.
- Tagaya, Koozoo: *See—*
- Arita, Yukio; Nakao, Yoshiaki; Iwai, Takashi; and Tagaya, Koozoo, 3,633,419.
- Taggart, Campbell, Inc.: *See—*
- Fehr, Isaac N., Jr.; Morris, Trebor B.; Russ, John J.; Bingham, Richard C.; Rubi, Jose M.; Patton, James C.; and Cannon, Sidney E., 3,649,304.
- Taggart, George. Swivel sectioned building wall. 3,645,053, 2-29-72, Cl. 52-65.
- Taggart, Raymond: *See—*
- Larson, Jay Michael; Polonis, Douglas Hugh; and Taggart, Raymond, 3,657,083.
- Taggart, William J.: *See—*
- Helgeland, Walter; Lazott, James B.; Duke, Philip J.; Taggart, William J.; Geacox, George W.; and Brandsma, Abe, 3,645,784.
- Tagliafico, Giovan Battista; and Grazzini, Ferdinando, to Minnesota Mining and Manufacturing Company. Solarization of silver halide photographic emulsions. 3,647,458, 3-7-72, Cl. 96-45.2.
- Taglieber, Kurt: *See—*
- Brunner, Erwin; Platz, Rolf; Taglieber, Kurt; and Weinfurter, Kurt, 3,657,375.
- Brunner, Erwin; Platz, Rolf; Taglieber, Kurt; and Weinfurter, Kurt, 3,686,344.
- Nagel, Otto; Platz, Rolf; Taglieber, Kurt; Weinfurter, Kurt; and Wolf, Dieter, 3,635,038.
- Tagnon, Luc Andre, to Societe des Lunetiers, Societe en Commandite simple a Capital Variable. Device for holding and clamping an optical lens on an edging machine. 3,631,637, 1-4-72, Cl. 51-237.
- Tago, Kazuo: *See—*
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- Tago, Satoshi, to Mitsubishi Petrochemical Co., Ltd. Process for the production of synthetic resin pipes. 3,700,764, 10-24-72, Cl. 264-273,000.
- Taguchi, Kazuo; and Tsuchida, Hiroaki, to Tokyo Shibaura Electric Co., Ltd. Three-phase bus system and interconnecting member. 3,701,929, 10-31-72, Cl. 317-103,000.
- Taguchi, Kikuo: *See—*
- Kawamura, Toshiki; Ohneda, Tohru; Nomura, Yasuaki; and Taguchi, Kikuo, 3,685,725.
- Taguchi, Naoyoshi. Gas detecting element and method of making it. 3,644,795, 2-22-72, Cl. 317-230.
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- Taguchi, Ryusuke: *See—*
- Misato, Tomomasa; Huang, Keng Tang; Shirato, Shiroh; Seino, Akio; Nakamura, Yuko; Aizawa, Shojiro; and Taguchi, Ryusuke, 3,657,422.
- Taguchi, Satoru: *See—*
- Sakakura, Akira; Yamamoto, Takaaki; Taguchi, Satoru; and Ueno, Kiyoshi, 3,632,456.
- Sakakura, Akira; Taguchi, Satoru; Wada, Toshiya; Ueno, Kiyoshi; Yamamoto, Takaaki; and Urushiyama, Nabuo, 3,636,579.
- Taguchi, Seiichi: *See—*
- Honjo, Satoru; Taguchi, Seiichi; Takimoto, Masaaki; and Miyatsuka, Hajime, 3,707,392.
- Tamai, Yasuo; Osawa, Sadao; and Taguchi, Seiichi, 3,677,766.
- Taguchi, Tatsuya, to Canon Kabushiki Kaisha. Interlocking device for the exposure meter in a camera. 3,677,149, 7-18-72, Cl. 95-10,00c.
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- Tahara, Tadasu: *See—*
- Suzuki, Reiichi; Tahara, Tadasu; and Mototani, Hideo, 3,674,769.
- Tahara, Takasi: *See—*
- Isogai, Tokio; Isikawa, Eiichi; Yuza, Hisashi; Tahara, Takasi; Miyashita, Takao; and Ikemoto, Norio, 3,654,543.
- Tahara, Tetsuya: *See—*
- Nakanishi, Michio; Kobayakawa, Toshihiro; and Tahara, Tetsuya, 3,632,592.
- Nakanishi, Michio; Tahara, Tetsuya; Imamura, Hiroshi; and Maruyama, Yutaka, 3,655,681.
- Nakanishi, Michio; Tahara, Tetsuya; Imamura, Hiroshi; and Maruyama, Yutaka, 3,655,682.
- Tai, Akira: *See—*
- Adachi, Kazuo; Tai, Akira; and Higashi, Fukuji, 3,635,888.
- Taiheiyō Kinoku Kabushiki Kaisha Co., Ltd.: *See—*
- Shindo, Hisao; Nagoya, Yoshishige; Takeuchi, Takashi; and Murai, Kosuke, 3,652,263.
- Taiho Kogyo Co., Ltd.: *See—*
- Mizuno, Koichi, 3,647,500.
- Taillon, John Kellner, to Bell & Howell Company. Control system. 3,690,750, 9-12-72, Cl. 352-124,000.
- Tailor, John P. Gas cleaning process. 3,687,630, 8-29-72, Cl. 423-242,000.
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- Taisei Kensetsu Kabushiki Kaisha: *See—*
- Tadahira, Kenich; and Kojima, Jiro, 3,633,446.
- Taiseiki, Kunugi: *See—*
- Kunugi, Taiseiki, 3,639,449.
- Taisho Pharmaceutical Ltd.: *See—*
- Sawaka, Jiro; Misaki, Tetsuo; Okabe, Masao; Yasui, Hajime; Hanada, Kazunori; and Okazaki, Tadayasu, 3,652,400.
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- Taits, Samuil Zalmanovich: *See—*
- Mikhailov, Nikolai Petrovich; Rapoport, Lev Moiseevich; and Taits, Samuil Zalmanovich, 3,698,235.
- Taiyo Kogyo Company Limited: *See—*
- Itokawa, Hideo, 3,697,352.
- Sakamoto, Junzo; Nozaki, Tadashi; Tsuji, Yoshifumi; and Shimada, Masaharu, 3,672,561.
- Taiyo Seiki Co., Ltd.: *See—*
- Sugioka, Yasuji, 3,689,352.
- Taiyo Yuden Kabushiki Kaisha: *See—*
- Oya, Koichi, 3,659,123.
- Taj, Hatim H., to General Electric Company. Splice for joining high voltage cables. 3,691,291, 9-12-72, Cl. 174-73,00r.
- Tajbl, Franz; and Gillitzer, Max, to Linde Aktiengesellschaft. Switching arrangement for the stabilization and ignition of welding arcs and the like. 3,637,974, 1-25-72, Cl. 219-135.
- Tajchman, Edwin J.: *See—*

- Harrison, Lee, III; Honey, Francis J.; Tajchman, Edwin J.; and Bowles, Lloyd W., 3,662,374.
Harrison, Lee, III; Honey, Francis J.; and Tajchman, Edwin J., 3,700,792.
Tajima, Akira: *See—*
Kawabe, Tadasi; and Tajima, Akira, 3,652,151.
Tajima, Hiroaki: *See—*
Mori, Ryoichi; Tajima, Hiroaki; Tsuji, Yoshio; and Sanekika, Noriaki, 3,681,616.
Tajima, Mataichi, to Fuji Photo Film Co., Ltd. Half tone radiography method and apparatus. 3,665,186, 5-23-72, Cl. 250-62.
Tajima, Shigenobu: *See—*
Koyanagi, Shunichi; Kitamura, Hajime; Ogawa, Kinya; and Tajima, Shigenobu, 3,661,867.
Koyanagi, Shunichi; Tajima, Shigenobu; Shimizu, Toshihide; and Kurimoto, Kazuhiko, 3,669,946.
Koyanagi, Shunichi; Kitamura, Hajime; and Tajima, Shigenobu, 3,671,508.
Tajima, Shigeru: *See—*
Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiro; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,632,671.
Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiro; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,657,046.
Tajima, Shigeru; Kobayashi, Katsumi; Fukuhara, Hiroshi; Yamamoto, Hiroki; and Ura, Shigeru, to Sumitomo Chemical Company, Ltd. Condensates of imidazolidone derivatives and polyalkylene glycol useful for improving textile materials. 3,652,583, 3-28-72, Cl. 60-309.7.
Tajima, Takao: *See—*
Ogawa, Koichi; and Tajima, Takao, 3,653,201.
Tajima, Tatsuya: *See—*
Tatsuta, Sumitaka; Ueno, Wataru; Tajima, Tatsuya; and Akao, Mutsuo, 3,697,305.
Tsuji, Nobuo; Tajima, Tatsuya; Miyazaki, Takashi; Tsuchiya, Yoshinori; and Nishio, Fumihiko, 3,666,470.
Tajiri, Hiromi: *See—*
Hamanaka, Yasushi; Tajiri, Hiromi; Etoh, Kuniomi; Furukawa, Kaoru; and Masai, Yukito, 3,640,761.
Tajiri, Hisao: *See—*
Yamada, Hisashi; Tajiri, Hisao; and Nishizawa, Mitsugu, 3,706,023.
Tajiri, Hisao; Sato, Itzuo; Takemura, Yasuo; and Tsuji, Shigeo, to Tokyo Shibaura Electric Co., Ltd. Color television image pick-up devices. 3,671,664, 6-20-72, Cl. 178-5.4.
Tak, Charles S.: *See—*
Lee, Joo C.; and Tak, Charles S., 3,699,392.
Tak, Marinus Gerardus Antoine: *See—*
Wanmaker, Willem Lambertus; and Tak, Marinus Gerardus Antoine, 3,636,352.
Takabayashi, Yoshikazu, to Nippon Gakki Seizo Kabushiki Kaisha. Diaphragm for sound instrument and method for producing same. 3,664,911, 5-23-72, Cl. 161-160.000.
Takabe, Koichi: *See—*
Iwama, Masakuni; Fujiwara, Mitsuo; Kojima, Tamotsu; Takabe, Koichi; and Yamamoto, Toshihiko, 3,667,956.
Takachiho Koeiki Kabushiki Kaisha: *See—*
Ohara, Katsuhiko; and Matsuzawa, Kazuchiyo, 3,654,612.
Takacs, Edward Andrew, to American Cyanamid Company. Isomerization of alpha-pinene. 3,700,746, 10-24-72, Cl. 260-675.500.
Takacs, Edward Andrew, to American Cyanamid Company. Isomerization of terpenes. 3,700,747, 10-24-72, Cl. 260-675.500.
Takacs, Kalman: *See—*
Harsanyi, Kalman; Reiter, Jozsef; Korbonits, Dezso; Goncz, Csaba; Takacs, Kalman; Bako, Erzsebet; Leszkovszky, Gyorgy; Tardos, Laszlo; and Vertesy, Csaba, 3,647,809.
Harsanyi, Kalman; Takacs, Kalman; Relle, Zsuzsa, nee Somfai; Milak, Eva, nee Krompecher; Tardos, Laszlo; Korbonits, Dezso; Kiss, Pal; and Gonczy, Csaba, 3,673,188.
Takacs, Lawrence M.: *See—*
Brixius, Jacob K.; Takacs, Lawrence M.; and Van Sweringen, James P., 3,698,161.
Takada, Sadaharu, to Seibu Gomu Kagaku Kabushiki Kaisha. Fender with cushion board. 3,680,851, 8-1-72, Cl. 267-140.000.
Takada, Syun: *See—*
Ishikawa, Hidehiko; Sato, Mikio; and Takada, Syun, 3,700,455.
Takada, Takezo, to Takata Kogyo Co., Ltd. Safety belt retractor reel locking mechanism. 3,695,546, 10-3-72, Cl. 242-107.400.
Takagi, Eiichi: *See—*
Nagasawa, Fujio; Okamoto, Shosuke; Takagi, Eiichi; Yokoi, Mikio; and Mangyo, Mitsuo, 3,639,626.
Takagi, Haruo; and Yamagishi, Yasuo. Apparatus for manufacturing synthetic resin tub provided with heat-shrinking property. 3,687,585, 8-29-72, Cl. 425-71.000.
Takagi, Hideaki: *See—*
Ando, Masao; and Takagi, Hideaki, 3,632,975.
Takagi, Hiromu: *See—*
Kishida, Yukichi; Terada, Atsuzuke; Takagi, Hiromu; and Kamioka, Toshiharu, 3,644,531.
Sato, Yasunobu; Takagi, Hiromu; Tanaka, Teruo; and Kamoshida, Katsuo, 3,644,376.
Sato, Yasunobu; Kobayashi, Yutaka; Takagi, Hiromu; Kumakura, Seiji; Nakayama, Koichi; and Oshima, Takeshi, 3,663,570.
Tachikawa, Ryuji; Takagi, Hiromu; Kamioka, Toshiharu; Fukunaga, Mitsunobu; Kawano, Yoichi; and Miyadera, Tetsuo, 3,696,094.
Takagi, Katsuhide: *See—*
Moriyama, Hisao; and Takagi, Katsuhide, 3,643,574.
Takagi, Kazumi; and Matsuda, Teruo, to Sumitomo Chemical Company, Ltd. Method for producing isoprene. 3,637,887, 1-25-72, Cl. 260-681.
Takagi, Kazumi; Matsuda, Teruo; and Murakami, Masahiro, to Sumitomo Chemical Company, Ltd. Process for producing α pyridolone. 3,644,402, 2-22-72, Cl. 260-326.5.
Takagi, Kazumi; and Ishida, Takaharu, to Sumitomo Chemical Company, Ltd. Oxidation of cyclohexane. 3,644,526, 2-22-72, Cl. 260-586.
Takagi, Kazumi; Murakami, Masahiro; and Iketani, Koichi, to Sumitomo Chemical Company, Ltd. Method for production of methyl isobutyl ketone. 3,666,816, 5-30-72, Cl. 260-593.000.
Takagi, Koichi; and Yamada Masuho, to Mitsubishi Jukogyo Kabushiki Kaisha. Device for feeding strips of material. 3,682,470, 8-8-72, Cl. 271-27.000.
Takagi, Michiyasu: *See—*
Shimotori, Kazumi; Takagi, Michiyasu; Kawamura, Yoshihisa; and Kiyooka, Shoichi, 3,663,767.
Takagi, Motoyoshi: *See—*
Watanabe, Masami; Namikawa, Keishi; Yasuda, Kotaro; and Takagi, Motoyoshi, 3,697,605.
Takagi, Nobuo: *See—*
Fukaya, Shigeo; and Takagi, Nobuo, 3,698,617.
Takagi, Nobuo; and Takiguchi, Takashi, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Method of and apparatus for friction welding. 3,691,622, 9-19-72, Cl. 29-470.300.
Takagi, Osamu: *See—*
Kawai, Isamu; Nishikawa, Atsuro; Takagi, Osamu; Iwata, Akira; and Sugiyama, Kohei, 3,657,165.
Takagi, Seishi: *See—*
Nakao, Yukihiko; Takagi, Seishi; and Nakatani, Hiromi, 3,666,488.
Takagi, Shigeru: *See—*
Saito, Nagao; Kobayashi, Kazuhiko; and Takagi, Shigeru, 3,705,287.
Takagi, Takeshi; Kawamoto, Tamio; and Miyazaki, Toshio, to Nissan Motor Company, Limited. Hydraulic clutch with dump valve. 3,677,381, 7-18-72, Cl. 192-106.00f.
Takagi, Tatsuya. Oil-type vibration damper. 3,704,767, 12-5-72, Cl. 188-280.000.
Takagi, Tettsu: *See—*
Iwai, Tadashi; Yamashina, Hisao; Takagi, Tettsu; and Adachi, Shoichi, 3,697,386.
Takagi, Yasuo: *See—*
Akamatsu, Akira; Takagi, Yasuo; Iwatsuki, Makoto; Kida, Yoko; and Takeshita, Kazuhisa, 3,695,822.
Takeda, Yoshifumi; Takagi, Yasuo; and Mori, Shigeo, 3,634,544.
Takahama, Sho, to Minolta Camera Co., Ltd. Camera cartridge release mechanism. 3,641,893, 2-15-72, Cl. 95-11.
Takahama, Sho, to Fuji Photo Film Co., Ltd. Projection lamp de-energizing device. 3,649,110, 3-14-72, Cl. 352-92.
Takahama, Sho, to Minolta Camera Co., Ltd. Waterproof camera actuating mechanism. 3,653,306, 4-4-72, Cl. 95-11.
Takahara, Masaki. Polycondensed acid composition and production thereof. 3,655,629, 4-11-72, Cl. 260-78.4.
Takahashi, Akio: *See—*
Gaylord, Norman G.; and Takahashi, Akio, 3,636,139.
Ohnishi, Toshimi; Suzuki, Takamitsu; Takahashi, Akio; Yagi, Hiroshi; and Ohya, Shunichi, 3,688,549.
Takahashi, Akira; and Nemoto, Gentaro, to Showa Rubber Co., Ltd. Sponge rubber sole for preventing slippage. 3,639,300, 2-1-72, Cl. 260-2.5.
Takahashi, Akira; Arata, Akimasa; and Okawara, Yoshimi, to Mifumi Iron Works Co., Ltd. Cupolas. 3,659,832, 5-2-72, Cl. 266-30.
Takahashi, Akira; Kojima, Hiroo; Ogawa, Masao; Osuka, Hiroshi; and Kobayashi, Shoichi, to Showa Denko Kabushiki Kaisha. Thermoplastic resin having high impact strength. 3,673,279, 6-27-72, Cl. 260-876.00r.
Takahashi, Atsushi: *See—*
Kamio, Kosaku; Kuwana, Motoyuki; Takahashi, Atsushi; and Sihara, Masao, 3,660,332.
Takahashi, Frank T.: *See—*
Capek, Raymond G.; and Takahashi, Frank T., 3,683,469.
Takahashi, Hideomi; and Takigami, Katsuhiko, to Tokyo Shibaura Electric Co., Ltd. Starting control for an A.C. electric motor device. 3,678,361, 7-18-72, Cl. 318-473.000.
Takahashi, Hiroaki; and Hara, Toshito, to Fujitsu Limited. Contact material. 3,705,796, 12-12-72, Cl. 75-173.00r.
Takahashi, Hiroshi: *See—*

- Maeda, Yo; Suzuki, Satoshi; Nakamura, Yoshiharu; Masubuchi, Yoritomo; Ueyama, Tamotsu; Fukutomi, Naoki; and Takahashi, Hiroshi, 3,646,670.
Takahashi, Hiroshi, to Daicel Ltd. Process for manufacturing 3,3,5-trimethylcyclohexyl mandelate. 3,673,239, 6-27-72, Cl. 260-473.00a.
Takahashi, Hisamitsu: *See—*
Doi, Kazuo; Nakajima, Jun; Takahashi, Hisamitsu; and Tomokawa, Hideo, 3,669,699.
Takahashi, Ikuzo: *See—*
Yasuhara, Yutaka; Nogi, Tatsuo; and Takahashi, Ikuzo, 3,655,744.
Takahashi, Isao: *See—*
Fujisawa, Masami Koguchi; and Takahashi, Isao, 3,687,550.
Takahashi, Isao, to Bunshodo Co., Ltd. Apparatus for the automatic separation of a negative sheet and a photosensitive sheet from the stack of them on a photocopier. 3,684,278, 8-15-72, Cl. 271-64.000.
Takahashi, Isoji: *See—*
Sato, Masamichi; and Takahashi, Isoji, 3,649,830.
Sato, Masamichi; and Takahashi, Isoji, 3,672,330.
Sato, Masamichi; and Takahashi, Isoji, 3,689,767.
Takahashi, Kazuhiko: *See—*
Sawairi, Hitoshi; Kurihara, Yoshio; Takahashi, Kazuhiko; Hayakawa, Yoshihiko; and Hataya, Yukio, 3,702,968.
Takahashi, Kazusaburo; Sasaki, Takeshi; Takeuchi, Hisauke; Morita, Keiichi; and Toda, Tadatoshi, to Hitachi, Ltd. Semiconductor device. 3,652,904, 3-28-72, Cl. 317-234.
Takahashi, Kazuyoshi: *See—*
Miyake, Yuji; Kashiara, Hideo; Takahashi, Kazuyoshi; Yamamoto, Takamitsu; and Mizukawa, Ziyun, 3,653,189.
Takahashi, Kei: *See—*
Kaneko, Shin-ichi; Takahashi, Kei; and Yamamoto, Hisao, 3,705,153.
Yamamoto, Hisao; Inaba, Shigeo; Arasaki, Seitetsu; Maruyama, Isamu; Takahashi, Kei; Saito, Chiharu; and Sakai, Shigeru, 3,651,230.
Takahashi, Keiichi. Method for making thermoplastic synthetic resin hollow structure articles. 3,668,288, 6-6-72, Cl. 264-47.
Takahashi, Kenji: *See—*
Maruya, Mitsuru; Oono, Yoshio; Fukuda, Bunji; and Takahashi, Kenji, 3,644,231.
Takahashi, Kenji; Yamamura, Toshio; Ono, Mitsuo; and Eda, Korekiyo, to Kanegafuchi Boseki Kabushiki Kaisha. Method of producing polyvinyl acetal porous articles. 3,673,125, 6-27-72, Cl. 260-2.50f.
Takahashi, Kensaku; and Yoshida, Kenichi, to Japanese National Railways. Induction radio transmission system. 3,694,751, 9-26-72, Cl. 325-51.000.
Takahashi, Kentaro; and Sato, Yoshihito, to Nippon Piston Ring Co., Ltd. Method of casting composite cam shafts. 3,689,986, 9-12-72, Cl. 29-527.600.
Takahashi, Kenzi: *See—*
Sato, Katsumi; Nakamura, Takashi; Nakamura, Masaru; Hirasawa, Kazuo; Hamada, Mitsuo; Takahashi, Kenzi; Yashima, Masaaki; Ozaki, Toshiaki; Yamamoto, Sigeo; Oishi, Tadashi; Fujinami, Akira; Horiuchi, Fukashi; and Nodera, Katsuji, 3,703,526.
Takahashi, Kinji, to Nippon Kogaku K.K. Microscope for inspecting surfaces of holes or the like. 3,661,440, 5-9-72, Cl. 350-8.
Takahashi, Kinji; and Shio, Megumu, to Nippon Kogaku K.K. Illumination system for light microscopes. 3,679,287, 7-25-72, Cl. 350-87.000.
Takahashi, Kiyoshi: *See—*
Tanaka, Yoshinobu; and Takahashi, Kiyoshi, 3,645,540.
Takahashi, Kunio, to Toyota Koki Kabushiki Kaisha. Electrolytic grinding machine. 3,694,340, 9-26-72, Cl. 204-224.000.
Takahashi, Kuniyuki; Hata, Go; and Miyake, Akihisa, to Toray Industries, Inc. 1,6-Octadiene derivatives and the preparation thereof. 3,676,470, 7-11-72, Cl. 260-410.000.
Takahashi, Masaaki: *See—*
Gomi, Shinpei; Takahashi, Masaaki; Ishiguro, Tadashi; Okagami, Akio; Uemoto, Kunihiro; and Kuribayashi, Hiroshi, 3,689,401.
Suzuki, Shigeyuki; Kaneda, Isamu; Takahashi, Masaaki; and Nagai, Hiroshi, 3,640,969.
Takahashi, Masaaki; and Mayumi, Osamu, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for producing alkylated tars. 3,663,428, 5-16-72, Cl. 208-97.
Takahashi, Masao: *See—*
Doi, Kikuo; Takahashi, Masao; Nanamatsu, Satoshi; and Fujino, Yoshio, 3,644,761.
Fukuda, Tadanori; Takahashi, Masao; Ogihara, Shoji; and Sekiya, Masato, 3,706,589.
Ohno, Tomeji; Takahashi, Masao; Akashi, Tsuneo; and Tsubouchi, Norio, 3,654,160.
Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo, 3,699,045.
Takahashi, Minoru: *See—*
Sato, Akihiko; and Takahashi, Minoru, 3,645,467.
Takahashi, Mitsuo: *See—*
Asui, Hiroshi; and Takahashi, Mitsuo, 3,701,647.
Takahashi, Mitsuo, to Fuji Heavy Industries, Ltd. Independent front suspension system for a front wheel drive automobile. 3,642,084, 2-15-72, Cl. 180-43.
Takahashi, Mitsuo; Ito, Koji; and Kaga, Sadao, to Hitachi Powdered Metals Co., Ltd. Powder compacting device for forming helical gear compact. 3,694,127, 9-26-72, Cl. 425-352.000.
Takahashi, Mitsuo, to Fuji Heavy Industries, Ltd. Independent front suspension system for a front wheel drive automobile. 3,703,215, 11-21-72, Cl. 180-43.00r.
Takahashi, Nagashige; and Kinoshita, Kunio, to Olympus Optical Co., Ltd. Endoscopic apparatus. 3,643,653, 2-22-72, Cl. 128-6.
Takahashi, Nagashige, to Olympus Optical Co., Ltd. Endotracheal tube. 3,669,098, 6-13-72, Cl. 128-6.000.
Takahashi, Nagashige; and Oouchi, Teruo, to Olympus Optical Co., Ltd. Flexible protecting sheath of an elongated flexible optical fiber bundle. 3,691,001, 9-12-72, Cl. 161-96.000.
Takahashi, Naoki: *See—*
Sasaki, Koju; Takahashi, Naoki; and Kobayashi, Akihiro, 3,666,954.
Takahashi, Naoki, to Nittan Company Limited. Single chamber ionization smoke detector. 3,676,678, 7-11-72, Cl. 250-83.6f.
Takahashi, Nobuaki, to Victor Company of Japan, Limited. System for recording and/or reproducing four channel signals on a record disc. 3,686,471, 8-22-72, Cl. 179-100.4st.
Takahashi, Nobuyuki: *See—*
Nagashima, Shinichi; Takechi, Hiroshi; Matsuo, Youichi; Kato, Hiroshi; Shimizu, Mineo; and Takahashi, Nobuyuki, 3,642,468.
Takahashi, Ryoji: *See—*
Matsuda, Shozo; Tanaka, Tadashi; Murayama, Kouzou; Yamamoto, Kunimitsu; Oka, Joji; Takahashi, Ryoji; and Koyama, Megumi, 3,663,383.
Takahashi, Sankichi; Otake, Katsumoto; and Horiuchi, Toshiaki, to Hitachi, Ltd. Multi-staged flash evaporator and a method of operating the same with sponge ball descaling treatment. 3,707,442, 12-26-72, Cl. 203-1.000.
Takahashi, Satoshi: *See—*
Fukuoka, Ichiro; Kimura, Shoji; Nishimura, Takehiko; and Takahashi, Satoshi, 3,697,609.
Fukuoka, Ichiro; Takahashi, Satoshi; and Yagi, Norio, 3,700,645.
Nishiyama, Akira; Fukui, Tooru; Takahashi, Satoshi; Takashima, Yuji; Nakano, Masaaki; Izura, Yoshiteru; and Tanaka, Masaaki, 3,689,155.
Takahashi, Senji, to Japan Aircraft Manufacturing Company Limited. Device for monitoring a fluid pressure system. 3,699,810, 10-24-72, Cl. 73-168.000.
Takahashi, Shigeo: *See—*
Hirozawa, Koichiro; and Takahashi, Shigeo, 3,677,277.
Hirozawa, Koichiro; and Takahashi, Shigeo, 3,704,768.
Takahashi, Shinkichi: *See—*
Tanaka, Hiroshi; Marushima, Giichi; and Takahashi, Shinkichi, 3,651,323.
Tanaka, Hiroshi; Nagamatsu, Katsumi; Marushima, Giichi; and Takahashi, Shinkichi, 3,666,363.
Tanaka, Hiroshi; Takahashi, Shinkichi; and Tosaka, Umi, 3,666,365.
Takahashi, Shiro; and Horiguchi, Tadao, to Kurita Water Industries Ltd. Filtration apparatus for use in treating sludge. 3,702,135, 11-7-72, Cl. 210-270.000.
Takahashi, Shogo; Yamada, Takayasu; and Okudaira, Hiromi, to Sankyo Company Limited. Fruit abscising method. 3,703,365, 11-21-72, Cl. 71-86.000.
Takahashi, Soji: *See—*
Akeyama Masamoto; and Takahashi, Soji, 3,678,575.
Takahashi, Susumu: *See—*
Ikegami, Kazutoshi; Ikeda, Hideo; Takeuchi, Kazumi; Kitamura, Kosuke; and Takahashi, Susumu, 3,648,179.
Takahashi, Susumu; Nakashima, Hisao; and Migitaka, Masatoshi, to Hitachi, Ltd. Method of diffusing an impurity into a compound semiconductor substrate. 3,660,178, 5-2-72, Cl. 148-189.
Takahashi, Susumu, to Sansui Electric Co., Ltd. Switching circuit. 3,678,297, 7-18-72, Cl. 307-251.000.
Takahashi, Tadanobu; and Kan, Yoshiro, to Nippon Seiko Kabushiki Kaisha. Sealed bearing. 3,642,335, 2-15-72, Cl. 308-187.1.
Takahashi, Tadanobu; and Usami, Kunihiro, to Nippon Seiko Kabushiki Kaisha. Anti-creep bearing assembly for an antifriction bearing. 3,669,519, 6-13-72, Cl. 308-236.
Takahashi, Tadao: *See—*
Yamagishi, Hidehisa; Yokoi, Fumitoshi; and Takahashi, Tadao, 3,690,940.
Takahashi, Tadashi; Miyazaki, Masatoshi; Ogawa, Yasuhiko; Sato, Tadashi; and Kakuta, Kazuhiko, to Iwatsu Electric Co., Ltd. Automatic curve tracing system. 3,638,187, 1-25-72, Cl. 340-146.3.
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- Isono, Masao; Takahashi, Takeshi; and Yamazaki, Yoshio, 3,649,454.
- Takahashi, Tohru: *See—*
- Iijima, Nobuaki; and Takahashi, Tohru, 3,693,108.
- Kohda, Akihiko; Kohno, Shigeharu; Takahashi, Tohru; and Sugimoto, Hachiro, 3,704,244.
- Takahashi, Toru, to Iwatsu Electric Co., Ltd. Protective circuit for input circuit of junction type field effect transistor. 3,655,996, 4-11-72, Cl. 307-202.
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- Takahashi, Toru, to Canon Kabushiki Kaisha. Electrophotographic color process. 3,692,519, 9-19-72, Cl. 96-1.200.
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- Takahashi, Toshinaka: *See—*
- Uzu, Keizo; Nakano, Kinichi; and Takahashi, Toshinaka, 3,641,053.
- Uzu, Keizo; Nakano, Kinichi; and Takahashi, Toshinaka, 3,644,400.
- Uzu, Keizo; Nakano, Kinichi; and Takahashi, Toshinaka, 3,658,794.
- Takahashi, Toshinao: *See—*
- Mori, Haruki; Takahashi, Toshinao; and Koyama, Eisuke, 3,643,147.
- Takahashi, Yasunobu: *See—*
- Seko, Maomi; Takahashi, Yasunobu; Iwamoto, Takeaki; and Seno, Shikazo, 3,647,855.
- Seko, Maomi; Yomiyama, Akira; Takahashi, Yasunobu; Seta, Shigetoshi; and Nakagawa, Koji, 3,664,936.
- Takahashi, Yoshihiro; Moore, Robert T.; and Stephens, Thomas M., to Envirotech Corporation. Pyrolysis and analysis system. 3,703,355, 11-21-72, Cl. 23-230.0pc.
- Takahashi, Yoshinori: *See—*
- Watanabe, Akinori; Takahashi, Yoshinori; Yahiro, Seinosuke; and Watanabe, Kikuo, 3,707,206.
- Takahashi, Yoshio, to Pioneer Electronic Corporation. Automatic record player. 3,697,087, 10-10-72, Cl. 274-23.00r.
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- Takahira, Jiro: *See—*
- Hasegawa, Tokushige; Makimoto, Kuninobu; Nihei, Seiji; and Takahira, Jiro, 3,672,868.
- Takai, Akira: *See—*
- Kodama, Yutaka; Takai, Akira; and Inagaki, Tatsumi, 3,704,335.
- Takai, Kiyoshi: *See—*
- Sugahara, Yujiro; Naito, Hiroyuki; Takai, Kiyoshi; and Usui, Kouichi, 3,650,681.
- Takai, Makoto: *See—*
- Yamane, Izumi; Nagayama, Masuzo; and Takai, Makoto, 3,705,139.
- Takaichi, Moriyuki: *See—*
- Takahashi, Toshimasa; Takaichi, Moriyuki; Makino, Hiroshi; and Aoki, Toshiyazu, 3,658,730.
- Takaichi, Moriyuki; Hamachi, Naotoshi; Iwatuka, Gakuo; and Nakahara, Yoshiteru, to Toray Industries, Inc. Roll of film material having a protection layer on the end thereof. 3,645,386, 2-29-72, Cl. 206-59.
- Takaishi, Katsutoshi: *See—*
- Doi, Kazuo; Murakami, Takeru; Kawamura, Hideo; Takaishi, Katsutoshi; and Nakano, Yoshinobu, 3,651,173.
- Takakamo, Hironobu: *See—*
- Nakamura, Syuhei; and Takakamo, Hironobu, 3,635,484.
- Takaki, Ryoze: *See—*
- Kunishi, Takeshi; Kawade, Yoshihiro; Yamakita, Koiti; Takaki, Ryoze; and Yamanaka, Katuhiro, 3,635,305.
- Takaku, Tetsuo; and Miyashita, Meiji, to Toko, Inc. Piezoelectric ceramic filter. 3,638,146, 1-25-72, Cl. 333-72.
- Takakura, Koichi, to Kuraray Co., Ltd. Process for producing polymers of cyclic acetals. 3,652,465, 3-28-72, Cl. 260-2.
- Takakuwa, Yasuo: *See—*
- Kokubo, Ryo; Yokomichi, Koji; Takakuwa, Yasuo; Maruyama, Isao; Shiroishi, Akihiro; and Nagakura, Mizuhiko, 3,637,686.
- Kokubo, Ryo; Takakuwa, Yasuo; Shiroishi, Akihiro; and Kihara, Mitsuji, 3,700,672.
- Takalo, Kauko Armas. Remote controlled miniature-vehicle. 3,686,447, 8-22-72, Cl. 191-2.000.
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- Takamatsu, Masanobu: *See—*
- Tominaga, Hiroshi; and Takamatsu, Masanobu, 3,681,959.
- Takamatsu, Shuji: *See—*
- Kosui, Tsuguo; Seki, Masahiro; Takamatsu, Shuji; and Kojima, Sakusaburo, 3,682,196.
- Takamatsu, Tetsuya: *See—*
- Yoshimoto, Toshio; Kaneko, Seiya; Sasaki, Takashi; Narumiya, Tsuneaki; Yoshii, Hiroshi; and Takamatsu, Tetsuya, 3,652,517.
- Takamatsu, Toshiaki; and Fukada, Eiichi, to Rikagaku Kenkyusho. Method for determining transition temperature of dielectric. 3,680,358, 8-1-72, Cl. 73-17.00r.
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- Takami, Fumitaka: *See—*
- Ikawa, Kenji; and Takami, Fumitaka, 3,673,234.
- Takamiya, Saburo: *See—*
- Fujikawa, Kyoichiro; and Takamiya, Saburo, 3,668,439.
- Takamiya, Takehisa: *See—*
- Yamamoto, Kozo; and Takamiya, Takehisa, 3,703,295.
- Takamiya, Yutaka: *See—*
- Nomura, Fumio; Takamiya, Yutaka; Mizuno, Sakuhiro; Higashi, Kunio; and Shimamoto, Toshihiro, 3,703,698.
- Takamizawa, Akira; and Hirai, Kentaro, to Shionogi & Co., Ltd. Thiol-type thiamine thionothiolcarbonates. 3,666,831, 5-30-72, Cl. 260-256.5.
- Takamizawa, Akira; and Hirai, Kentaro, to Shionogi & Co., Ltd. 1,3-Dithiol compounds. 3,679,677, 7-25-72, Cl. 260-247.100.
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- Takamune, Hirotoki, to Citizen Watch Co., Ltd. Amplitude adjuster in an electronic timepiece. 3,654,757, 4-11-72, Cl. 58-23.
- Takamune, Hirotoki; and Mochizuki, Yoshifumi, to Citizen Watch Co., Ltd. Balance wheel assembly. 3,670,492, 6-20-72, Cl. 58-28.00a.
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- Takanashi, Yasushi: *See—*
- Endo, Yoshitaka; Tomiyama, Katsumi; and Takanashi, Yasushi, 3,702,435.
- Takano, Eiichi: *See—*
- Hirose, Ryusho; and Takano, Eiichi, 3,659,921.
- Takano, Hiroshi: *See—*
- Yamagishi, Hidehisa; Takano, Hiroshi; and Takeuchi, Masao, 3,679,554.
- Takano, Hirotugu, to Matsushita Electric Industrial Co., Ltd. Timer switch apparatus with improved flexible chain with coded movable pins. 3,639,707, 2-1-72, Cl. 200-33.
- Takano, Hirotugu; and Inoue, Toshitsugu, to Matsushita Electric Industrial Co., Ltd. Automatic lathe. 3,680,415, 8-1-72, Cl. 82-19.000.
- Takano, Kiyoshi: *See—*
- Sakka, Toshikatsu; and Takano, Kiyoshi, 3,675,111.
- Takano, Sho: *See—*
- Okuyama, Yasushi; Takano, Sho; and Suzuki, Ryokuya, 3,661,219.
- Takano, Teruhi: *See—*
- Shibuya, Koji; and Takano, Teruhi, 3,671,761.
- Takano, Tomoteru: *See—*
- Egawa, Mitsuru; and Takano, Tomoteru, 3,654,561.
- Takao, Hiroyoshi: *See—*
- Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; Yabuuchi, Hiroshi; and Takao, Hiroyoshi, 3,647,753.
- Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; Yabuuchi, Hiroshi; and Takao, Hiroyoshi, 3,671,492.

- Yamamoto, Keisaku; Takao, Hiroyoshi; Hirooka, Masaaki; and Oshima, Teruo, 3,655,583.
- Yamamoto, Keisaku; Takao, Hiroyoshi; Hirooka, Masaaki; and Oshima, Teruo, 3,674,755.
- Takao, Kiyoshi: *See—*
- Matsuda, Shogo; Shimodoi, Yutaka; Yamada, Hiraku; and Takao, Kiyoshi, 3,644,081.
- Takao, Shuji: *See—*
- Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.
- Takaoda, Tsuneo; Ohta, Tetsuya; and Itoh, Masaru, to Nippon Oil Seal Industry Co., Ltd. Epilohydrin polymers. 3,691,111, 9-12-72, Cl. 260-2.00a.
- Takaoka, Tadashi: *See—*
- Seki, Susumu; Noumi, Makoto; and Takaoka, Tadashi, 3,679,879.
- Takaoka, Takashi; Ohkoshi, Seiichi; and Unno, Yoichi, to Tokyo Shibaura Electric Co., Ltd. Foreground object locating device. 3,649,124, 3-14-72, Cl. 356-5.
- Takarabe, Shigehiro. Water cleaner. 3,662,889, 5-16-72, Cl. 210-169.
- Takasago Perfumery Co., Ltd.: *See—*
- Moree, Tatsuo; Komatsu, Akira; Akutagawa, Susumu; Sakaguchi, Toshiaki; and Matsuyama, Hirokazu, 3,706,809.
- Takasaka, Masahiro: *See—*
- Nagata, Takeo; Takasaka, Masahiro; and Kimura, Ichiro, 3,698,414.
- Takasaka, Yoshiyuki, to Industrial Science & Technology, Agency of. Enzymatic method for manufacture of fructose. 3,689,362, 9-5-72, Cl. 195-31.00r.
- Takasawa, Hideaki: *See—*
- Tanekusa, Toshimi; Takasawa, Hideaki; and Yamahata, Achihiro, 3,679,626.
- Takasawa, Seigo: *See—*
- Tanaka, Masao; Nakamura, Nobuo; and Takasawa, Seigo, 3,647,627.
- Takasawa, Yoshimasa: *See—*
- Kurihara, Sumio; Araki, Kazumi; Akeyama, Katsumi; and Takasawa, Yoshimasa, 3,687,810.
- Takase, Shinji; and Shioiri, Tomonori, to Nippon Oil Company, Limited. Method for the preparation of isomerization catalyst and process for the isomerization. 3,691,255, 9-12-72, Cl. 260-683.680.
- Takase, Shinji; and Shiori, Tomonori, to Nippon Oil Company Limited. Method of halogenating crystalline aluminosilicate. 3,699,056, 10-17-72, Cl. 252-442.000.
- Takase, Tadayoshi; and Mizuno, Sueo, to Kabushiki Kaisha Rinnai Seisakusho. Cooking oven. 3,704,703, 12-5-72, Cl. 126-39.00c.
- Takase, Yoshiyuki: *See—*
- Minami, Shinsaku; Matsumoto, Jun-ichi; Shimizu, Masanao; and Takase, Yoshiyuki, 3,666,754.
- Minami, Shinsaku; Shono, Toshihiro; Shimmizu, Masanao; and Takase, Yoshiyuki, 3,673,184.
- Minami, Shinsaku; Matsumoto, Jun-ichi; Shimizu, Masanao; and Takase, Yoshiyuki, 3,701,773.
- Takashashi, Yoshinori; Sasaki, Rokuro; Watanabe, Kikuo; and Takizawa, Masao, to Hitachi, Ltd. Floor selector for an elevator car. 3,685,618, 8-22-72, Cl. 187-29.00r.
- Takashi, Masanor: *See—*
- Sakata, Rikita; Masuda, Kohei; and Takashi, Masanor, 3,671,383.
- Takashi, Uchiyama; Tadashi, Ito; and Mutsuhide, Matsuda, to Canon Kabushiki Kaisha. Automatic flash circuit. 3,683,769, 8-15-72, Cl. 95-11.50r.
- Takashi, Yukichi: *See—*
- Aishima, Itsuho; Sakurai, Hisaya; Takashi, Yukichi; Morita, Hideo; Hirotsu, Yoshiyuki; and Hamada, Tetsuo, 3,661,878.
- Aishima, Itsuho; Takashi, Yukichi; and Koseki, Toshinori, 3,694,403.
- Takashima, Kunihide: *See—*
- Matsumoto, Fumio; Wada, Toshiya; Yamamoto, Takaaki; Tanaka, Osamu; Takashima, Kunihide; and Takata, Toshihiko, 3,676,227.
- Takashima, Masaru; Saito, Masao; Matsuyama, Shigeru; and Ueki, Kazufusa, to Aikoh Co., Ltd. Desulfurizing agent for molten pig iron. 3,681,051, 8-1-72, Cl. 75-58.000.
- Takashima, Seiichi: *See—*
- Kinjo, Hisao; Iwabuchi, Yoshitaka; Takashima, Seiichi; Kato, Takatoshi; and Okano, Keigo, 3,641,278.
- Kinjo, Hisao; Takashima, Seiichi; Kato, Takatoshi; and Iwabuchi, Yoshitaka, 3,646,261.
- Kinjo, Hisao; Takashima, Seiichi; and Kato, Takatoshi, 3,649,753.
- Wada, Yoshiyo; Kinjo, Hisao; Takashima, Seiichi; and Akuwa, Fumio, 3,681,525.
- Takashima, Seiichi; and Kato, Takatoshi, to Victor Company of Japan, Limited. System for detecting a position error in the step-by-step movements of magnetic heads. 3,643,036, 2-15-72, Cl. 179-100.2.
- Takashima, Tuneso, to Hitachi, Ltd. Method and apparatus for bringing a hydraulic turbine alternator set on load. 3,682,563, 8-8-72, Cl. 415-1.000.
- Takashima, Yoshiro: *See—*
- Miyazaki, Toshio; Omura, Etuzou; Katakabe, Kyoku; Makita, Minoru; Iwase, Kenji; Tsutsumi, Hideo; Yctsumoto, Takashi; Ikeda, Fumiaki; Takashima, Yoshiro; Sueyoshi, Hiromu; and Maesaka, Tomio, 3,689,620.
- Takashima, Yuji: *See—*
- Nishiyama, Akira; Fukui, Tooru; Takahashi, Satoshi; Takashima, Yuji; Nakano, Masaaki; Izura, Yoshiteru; and Tanaka, Masaaki, 3,689,155.
- Takashio, Haruo: *See—*
- Irisaka, Yorikatsu; and Takashio, Haruo, 3,658,713.
- Takashio, Haruo; and Matsuzawa, Takayoshi, to Tokyo Shibaura Electric Co., Ltd. Cesium evaporator. 3,644,101, 2-22-72, Cl. 23-294.
- Takasi, Yamazaki: *See—*
- Murakami, Yoshio; and Takasi, Yamazaki, 3,678,889.
- Takasu, Itaru; Higuchi, Masaru; and Hotta, Hiroshi, to Daicel Ltd. Process for preparing 3-hydroxy-2-methyl-4-pyrone. 3,665,015, 5-23-72, Cl. 260-345.9.
- Takasu, Itaru; Sasaki, Takaaki; and Yamamoto, Akira, to Daicel Ltd. Process for the production of 3-hydroxy-2,2,4-trimethylpentyl isobutyrate. 3,703,541, 11-21-72, Cl. 260-494.000.
- Takasu, Masao: *See—*
- Sando, Yoshikazu; and Takasu, Masao, 3,651,671.
- Sando, Yoshikazu; and Takasu, Masao, 3,686,900.
- Takasu, Shozo: *See—*
- Mori, Miyoshi; and Takasu, Shozo, 3,641,788.
- Takata, Harry H., to Raygo Inc. Foot for compacting roller. 3,650,185, 3-21-72, Cl. 94-50.
- Takata, Harry H., to Raygo, Inc. Control means for power steering servo. 3,672,460, 6-27-72, Cl. 180-79.20b.
- Takata, Harry H., to Raygo, Inc. Earth working rotor with improved tines. 3,702,638, 11-14-72, Cl. 172-540.000.
- Takata Kojyo Co., Ltd.: *See—*
- Takada, Takezo, 3,695,546.
- Takata, Toshihiko: *See—*
- Matsumoto, Fumio; Wada, Toshiya; Yamamoto, Takaaki; Tanaka, Osamu; Takashima, Kunihide; and Takata, Toshihiko, 3,676,227.
- Takata, Toshikatsu: *See—*
- Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, 3,647,552.
- Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, 3,655,449.
- Takata, Toyoharu; Fujii, Keisuke; Yano, Nobumitsu; Fukushima, Masao; Nagayoshi, Fumio; and Mizuno, Aiko, to Asahi Kasei Kogyo Kabushiki Kaisha. Nacreous pigments from nucleic acid derivatives. 3,692,768, 9-19-72, Cl. 260-211.50r.
- Takata, Victor, to Artisan Industries Inc. Turbine drive for photographic film processing machines. 3,680,803, 8-1-72, Cl. 242-55.010.
- Takatori, Toshimitsu: *See—*
- Okada, Toru; and Takatori, Toshimitsu, 3,647,933.
- Takatoshi, Shimomura, to Sumitomo Chemical Company, Limited. Method for preparing block copolymer. 3,699,190, 10-17-72, Cl. 260-877.000.
- Takatou, Megumu. Paper piling machine for binding. 3,656,740, 4-18-72, Cl. 270-58.
- Takatsu, Toshiharu: *See—*
- Hozoji, Akira; and Takatsu, Toshiharu, 3,635,060.
- Takatsuki, Michio: *See—*
- Miyahara, Hideaki; Kawai, Tamiyosi; and Takatsuki, Michio, 3,651,523.
- Takauchi, Minoru, to Horino, Masao. Approach light apparatus. 3,659,262, 4-25-72, Cl. 340-26.
- Takayama, Katuki: *See—*
- Inada, Masami; Hayashi, Tatsuo; and Takayama, Katuki, 3,650,573.
- Okamoto, Tosiaki; Inada, Masami; Takayama, Katuki; Hayashi, Tatsuo; Nishida, Koji; Sakakibara, Naooji; and Kamiya, Masao, 3,656,817.
- Takayama, Kenichiro: *See—*
- Abe, Shigeo; and Takayama, Kenichiro, 3,684,653.
- Abe, Shigeo; and Takayama, Kenichiro, 3,700,556.
- Takayama, Masao: *See—*
- Watanabe, Minoru; and Takayama, Masao, 3,687,027.
- Takayama, Masayuki: *See—*
- Murato, Kenichi; Takei, Kenji; and Takayama, Masayuki, 3,646,891.
- Takayama, Yuji; Ichimura, Yutaka; Minmami, Shunsuke; Aoyagi, Takanobu; and Takeda, Fumio, to Nitto Chemical Industry Co., Ltd. Resin composition. 3,703,491, 11-21-72, Cl. 260-23.70m.

Takayanagi, Eifu: *See*—
Asahi, Matahiko; Murakami, Hisamichi; Hasegawa, Yukio; Matsui, Hideo; and Takayanagi, Eifu, 3,679,348.
Miyake, Yasuhiko; Takayanagi, Eifu; Narita, Shigeo; Shin, Masaaki; Hayashi, Roshio; and Sakurai, Koichi, 3,676,053.
Takayanagi, Kenjiro; Matsuyama, Kihachiro; Fujiwara, Tadashi; Mizuno, Hideaki; and Akiyama, Naoki, to Victor Company of Japan, Limited. Electron scattering prevention film and method of manufacturing the same. 3,692,576, 9-19-72, Cl. 117-217.000.
Takayanagi, Kiyoshi: *See*—
Negishi, Akira; Takayanagi, Kiyoshi; and Ikeda, Masaru, 3,660,082.
Takayanagi, Motowo; Sugiura, Shotaro; Matsuura, Tetsuro; Ueno, Haruo; Tsuji, Keiichi; Yamamoto, Shinzi; and Matumoto, Fuminori, to Ube Industries, Ltd. Process for the preparation of polybutadiene. 3,644,585, 2-22-72, Cl. 260-879.
Takayanagi, Seiichi: *See*—
Kobayashi, Tetsuji; Sasaki, Tetsuo; Takayanagi, Seiichi; and Sugita, Toru, 3,665,916.
Kobayashi, Tetsuji; Takayanagi, Seiichi; and Sugita, Toru, 3,669,095.
Takayasu, Kiyosumi. Immersion heater. 3,632,977, 1-4-72, Cl. 219-335.
Take, Teruo: *See*—
Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; and Nishiie, Kazuyoshi, 3,658,792.
Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; Nishiie, Kazuyoshi; Satoh, Sakae; Koide, Tadashi; and Hotta, Yasue, 3,668,200.
Takebayashi, Shizuo: *See*—
Sasaki, Shunroku; and Takebayashi, Shizuo, 3,644,673.
Takebayashi, Hisatomo, to Kurita Water Industries Ltd. Anti-splash tap nozzle. 3,707,236, 12-26-72, Cl. 210-449.000.
Takebe, Kaoru: *See*—
Nakatani, Keiji; and Takebe, Kaoru, 3,677,640.
Takebe, Kusutugu. Medal stamping machine. 3,643,771, 2-22-72, Cl. 197-67.
Takechi, Hiroshi: *See*—
Nagashima, Shinichi; Takechi, Hiroshi; Matsuo, Youichi; Kato, Hiroshi; Shimizu, Mineo; and Takahashi, Nobuyuki, 3,642,468.
Shimizu, Mineo; Takechi, Hiroshi; Kajioaka, Hiroyuki; and Kawaharada, Minoru, 3,668,016.
Takeda, Atsuo: *See*—
Hiratsuka, Michio; Ishii, Jiro; Goto, Tadahiko; and Takeda, Atsuo, 3,681,982.
Takeda Chemical Industries, Ltd.: *See*—
Abe, Matazo, 3,651,220.
Adachi, Haruhiko; and Miki, Takuichi, 3,660,542.
Adica, Osamu; Naito, Kenji; Ogino, Katsuhiko; and Kuroda, Hiroyuki, 3,658,656.
Arima, Kei; Tamura, Gakuzo; and Kakinuma, Atsushi, 3,687,926.
Eguchi, Yoshitomo, 3,667,910.
Fujimura, Hajime; Hori, Mikio; Masuda, Toru; Sawa, Yoichi; and Kato, Takeshi, 3,686,167.
Fujino, Masahiko; Hatanaka, Chitoshi; Nishimura, Osamu; and Sanno, Yasushi, 3,651,039.
Fukuda, Hideo; Suzuki, Takashi; Sumino, Yasuhiro; and Akiyama, Shunichi, 3,671,395.
Fukuda, Hideo; Suzuki, Takashi; Akiyama, Shunichi; and Sumino, Yasuhiro, 3,689,359.
Funakoshi, Yoshiro; Kajiura, Takehiko; Fujii, Kiyoshi; Kanamaru, Toshihiko; Nishitani, Masaki; and Komeda, Hiromu, 3,671,296.
Furuoya, Itsuo; Ogino, Katsuhiko; Kamatani, Yoshio; and Naito, Kenji, 3,662,016.
Hamada, Yoshio; and Yoshino, Motohisa, 3,686,392.
Heki, Takao; Yasumatsu, Katsuharu; Sawada, Koshichi; and Funakoshi, Yoshiro, 3,701,667.
Higashide, Eiji; Hasegawa, Toru; Shibata, Motoo; and Mizuno, Komei, 3,655,878.
Higashide, Eiji; Hasegawa, Toru; Shibata, Motoo; Kishi, Toyokazu; Harada, Setsuo; and Mizuno, Komei, 3,660,567.
Higashide, Eiji; Hasegawa, Toru; Ono, Hideo; Asai, Mitsuko; Muroi, Masayuki; and Kishi, Toyokazu, 3,691,280.
Hiraga, Kentaro; Asako, Tsunehiko; and Miki, Takuichi, 3,689,564.
Imai, Yoshio; Matsumura, Haruki; Yurugi, Shojiro; and Miyake, Akio, 3,697,530.
Imashiro, Yoshio; and Masuda, Katsutada, 3,642,793.
Ishii, Kiyofumi; Toda, Jun; Aoki, Hisashi; and Kuwada, Yutaka, 3,660,378.
Isono, Masao; Takahashi, Takeshi; and Yamazaki, Yoshio, 3,649,454.
Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Tsubaki, Keisuke, 3,652,399.
Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Tsubaki, Keisuke, 3,655,570.

Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Kodama, Reijiro, 3,691,014.
Jonjo, Mikio; and Furukawa, Yoshiyasu, 3,666,748.
Kawamatsu, Yutaka; Sasaki, Marekichi; and Morimoto, Hiroshi, 3,646,222.
Kawamatsu, Yutaka; Sugihara, Hirosada; and Morimoto, Hiroshi, 3,652,603.
Kawamatsu, Yutaka; Sugihara, Hirosada; and Morimoto, Hiroshi, 3,657,287.
Kazama, Seizi; and Nakabayashi, Masamitsu, 3,663,513.
Keshi, Akizo; Yoshii, Kunio; Yokoo, Makoto; and Nakai, Kaichi, 3,703,484.
Kishi, Toykazu; Harada, Setsuo; Misuno, Komei; Higashide, Eiji; and Shibata, Motoo, 3,691,181.
Kodama, Reijiro; Nakasugi, Yugo; and Imanishi, Kosaku, 3,660,571.
Kono, Reisaku; Yamamoto, Shigeo; and Yaoi, Hideaki, 3,655,872.
Marumoto, Ryuji; Yoshioka, Yoshio; Aoki, Hisashi; and Toda, Jun, 3,644,331.
Marumoto, Ryuji; Yoshioka, Yoshio; Aoki, Hisashi; and Toda, Jun, 3,690,900.
Masuda, Toru; Usui, Yoshio; Hara, Yukio; and Komatsu, Toshikatsu, 3,644,339.
Matsui, Yutaka; Mise, Noritoshi; Goto, Jugo; and Yokoo, Makoto, 3,676,402.
Matsuoka, Toshiro; Takeda, Keinosuke; Goto, Minoru; and Miyake, Akira, 3,697,647.
Meguro, Kanji; Kuwada, Yutaka; Nagawa, Yuji; and Masuda, Toru, 3,652,754.
Meguro, Kanji; Kuwada, Yutaka; and Masuda, Toru, 3,687,941.
Meguro, Kanji; Tawada, Hiroyuki; Kuwada, Yutaka; and Masuda, Toru, 3,692,772.
Mise, Noritoshi; Yamada, Minoru; and Nishino, Ken-ichi, 3,637,573.
Miyake, Akira; Horii, Stoshi; and Ueyanagi, Jisaburo, 3,678,160.
Miyake, Akira; Iwasaki, Hidesuke; and Naito, Kenzo, 3,694,548.
Morimoto, Rokuya; and Kodama, Reijiro, 3,642,982.
Morimoto, Shiro; Nomura, Hiroaki; Fugono, Takeshi; Maeda, Kihachiro; and Ishiguro, Toshihiro, 3,660,379.
Morita, Katsura; Hashimoto, Naoto; Morimoto, Shiro; Ando, Yasuo; and Miyashiro, Yutaka, 3,634,488.
Morita, Katsura; and Kawashima, Kenya, 3,679,662.
Naito, Kenji; Okudo, Hiroshi; Ogino, Katsuhiko; Tanaka, Michio; Kamatani, Yoshio; Mukai, Hiroshi; and Takeuchi, Tatsuro, 3,660,456.
Naka, Jinshichi; Tokuda, Yasunori; Koono, Takehiko; and Utsugi, Jun, 3,677,773.
Nakamachi, Hideo; Kamiya, Kazuhide; Nishikawa, Masao; and Fujii, Shoichiro, 3,687,932.
Nakao, Yoshio; Kuno, Mitsuzo; and Ohmura, Einosuke, 3,634,193.
Nakao, Yoshio; and Kuno, Mitsuzo, 3,652,395.
Nakao, Yoshio; Kikuchi, Masakazu; Suzuki, Masaru; and Doi, Mueharu, 3,654,078.
Nakao, Yoshio; Kuno, Mitsuzo; Yamatodani, Saburo; Imada, Isuke; and Morimoto, Hiroshi, 3,658,648.
Nakao, Yoshio; Kuno, Mitsuzo; Yamatodani, Saburo; Tanaka, Fumihiko; and Nojiri, Tsutomu, 3,669,836.
Nakao, Yukihiro; Takagi, Seishi; and Nakatani, Hiromi, 3,666,488.
Nakazawa, Koiti; Shibata, Motoo; Higashide, Eiji; Kanzaki, Toshihiko; Yamamoto, Hiroichi; Miyake, Akira; Ueyanagi, Jisaburo; and Iwasaki, Hidesuke, 3,655,879.
Noguchi, Shunsaku; Kishimoto, Shoji; and Kawai, Kiyohisa, 3,694,456.
Noguchi, Shunsaku; and Kishimoto, Shoji, 3,704,241.
Nomura, Hiroaki; Ishiguro, Toshihiro; and Maeda, Kihachiro, 3,658,848.
Okutani, Tetsuya; and Nagaoka, Akinobu, 3,654,264.
Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Sazuo, Konishi, 3,642,900.
Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo, 3,649,689.
Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo, 3,666,785.
Sakai, Michihiko; Kato, Masayuki; Hagiwara, Hikoichi; and Konishi, Kazuo, 3,666,786.
Shibata, Motoo; Yamamoto, Hiroichi; Higashide, Eiji; Mizuno, Komei; Imanishi, Mashiko; and Miyake, Akira, 3,678,161.
Shirai, Yoshihiro; Ichikawa, Hirohiko; Yoshida, Akira; Uchida, Naotake; Tsuji, Masaru; and Matsumoto, Zenji, 3,676,365.
Shiraishi, Tetsuya; Utsugi, Jun; Tanaka, Koji; and Tokusa, Yasunori, 3,655,746.
Takamatsu, Yasuo; Ishii, Toshio; Hayami, Toshio; and Tsubota, Yoshiharu, 3,655,887.
Tawada, Hiroyuki; Meguro, Kanji; and Kuwada, Yutaka, 3,703,525.
Wada, Takeo; Okada, Kazuo; and Ohyama, Masaru, 3,698,358.
Yamamoto, Hiroichi; Suzuki Takashi; Higashide, Eiji; Fugono, Takeshi; and Mizuno, Komei, 3,676,300.

Yamano, Togo; Henmi, Teruji; Usui, Yoshio; Noda, Etsunosuke; and Yamada, Masayuki, 3,705,246.
Yamatodani, Saburo; and Kanamaru, Tsuneo, 3,674,642.
Yokoo, Makoto; Keshi, Akizo; Hashimoto, Norishige; and Nakahara, Shigenobu, 3,681,271.
Yokoyama, Fujihiko; Yoneyama, Tooru; and Sato, Shigehiko (said Sato assor. to said), 3,679,438.
Yoneda, Masahiko; Yaoi, Hideaki; Kida, Makoto; Matsuda, Shinobu; and Shirafuji, Hideo, 3,660,564.
Yoshioka, Yoshio; Imai, Kinichi; Aoki, Hisashi; and Toda, Jun, 3,682,887.
Takeda, Chuzo; Kojima, Yoshihiro; Yamaguchi, Toshiyuki; and Ariyama, Yasuo, to Tokyo Shibaura Electric Co., Ltd. Circuit breaker. 3,639,865, 2-1-72, Cl. 335-18.
Takeda, Fumio: *See*—
Takayama, Yuzi; Ichimura, Yutaka; Minmami, Shunsuke; Aoyagi, Takanobu; and Takeda, Fumio, 3,703,491.
Takeda, Hajime: *See*—
Ishimatsu, Tsuyoshi; Ito, Takashi; Yano, Masamitsu; Takeda, Hajime; and Nagano, Kentaro, 3,664,765.
Takeda, Hiroshi; Schuller, Walter H.; Lawrence, Ray V.; and Block, Seymour S., to United States of America, Agriculture. Fungicidal composition. 3,663,593, 5-16-72, Cl. 260-469.000.
Takeda, Hiroshi; Schuller, Walter H.; Lawrence, Ray V.; and Block, Seymour S., to United States of America, Agriculture. Fungicidal method. 3,706,762, 12-19-72, Cl. 424-308.000.
Takeda, Hisami: *See*—
Tsuchiya, Hiroshi; Kunio, Nishinomiyashi; Kimura, Akio; Kawano, Suminori; Fujimoto, Keime; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Tanaka, Katsutoshi; Ooishi, Tadashi; and Takeda, Hisami, 3,670,057.
Takeda, Hitoshi: *See*—
Yoshiyama, Masami; Sato, Teruo; and Takeda, Hitoshi, 3,674,928.
Takeda, Ikuo; Suzuki, Takashi; and Furukawa, Hikaru, to Takeda Riken Industry Company Limited. Analogue-digital converting apparatus. 3,656,153, 4-11-72, Cl. 340-347.
Takeda, Ikuo; and Suzuki, Takashi, to Takeda Riken Industry Company Limited. Voltage comparator. 3,665,325, 5-23-72, Cl. 328-146.
Takeda, Ikuo; Suzuki, Takashi; and Furukawa, Hikaru. Electric signal amplifying apparatus. 3,686,581, 8-22-72, Cl. 330-63.000.
Takeda, Isao; Iguchi, Takashi; Tsuzuki, Katsuaki; and Nakano, Tooru, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for the cultivation of yeasts in a nutritive medium containing a nonionic surface active agent. 3,658,647, 4-25-72, Cl. 195-28.
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Takeda, Keinosuke: *See*—
Matsuoka, Toshiro; Takeda, Keinosuke; Goto, Minoru; and Miyake, Akira, 3,697,647.
Takeda Riken Industry Company Limited: *See*—
Furukawa, Hikaru; and Aihara, Hiroshi, 3,662,376.
Suzuki, Takashi; and Furukawa, Hikaru, 3,688,301.
Takeda, Ikuo; Suzuki, Takashi; and Furukawa, Hikaru, 3,656,153.
Takeda, Ikuo; and Suzuki, Takashi, 3,665,325.
Yamane, Kazuo; and Maruyama, Hiromi, 3,654,559.
Takeda, Toshihiko: *See*—
Murata, Norio; Takeda, Toshihiko; Sakai, Hirochika; and Matsuda, Nobuyuki, 3,680,653.
Takeda, Tsukasa: *See*—
Ikeda, Yoneichi; Takeda, Tsukasa; Hattori, Michio; Kiyomiya, Yutaka; and Yamamoto, Takashi, 3,694,322.
Takeda, Yoshifumi; Takagi, Yasuo; and Mori, Shiego, to Ajinomoto Co., Inc. Process for preparing films of poly- α -methyl glutamate modified with polyurethane resin. 3,634,544, 1-11-72, Cl. 260-858.
Takeda, Yosiaki, to Nippondenso Kabushiki Kaisha. Contact breaker incorporating fuel injection timing switches. 3,678,224, 7-18-72, Cl. 200-19.00m.
Takeda, Yukio, to Matsushita Electric Industrial Co., Ltd. Reproducing device. 3,699,670, 10-24-72, Cl. 35-35.00c.
Takeda, Yutaka: *See*—
Iida, Shinya; Sato, Hitoshi; and Takeda, Yutaka, 3,660,734.
Takegawa, Akio: *See*—
Iwaoka, Mutsuo; Takegawa, Akio; Inoue, Hiraku; Egami, Katsusuke; Nishikura, Kouiti; Yamashita, Shigeji; and Nagayasu, Tadashi, 3,698,178.
Takegawa, Hiroyasu, to Toyoda Machine Works, Limited. Digital fine-coarse rapid indexing motor control including means to sense shortest distance. 3,689,820, 9-5-72, Cl. 318-594.000.
Takehara, Hiraki. Sanitary process of packing a subject into a vessel. 3,691,267, 9-12-72, Cl. 264-98.000.
Takehara, Masahiro: *See*—
Yoshida, Ryonosuke; Takehara, Masahiro; Akiba, Hitoshi; and Usuba, Yasunori, 3,663,459.
Takehisa, Masaaki; Kawakami, Waichiro; Nakajima, Hayato; and Hosaki, Yoshihiko, to Japan Atomic Energy Research Institute.

Method of reducing pressure and controlling flow rate of a fluid under high pressure. 3,646,950, 3-7-72, Cl. 137-13.
Takehisa, Masaaki; Senrui, Shiro; and Nakajima, Hayato, to Japan Atomic Energy Research Institute. Process for producing fine polyethylene powder. 3,676,419, 7-11-72, Cl. 260-94.90f.
Takei, Haruo: *See*—
Nadazawa, Yoshiyuki; Nakamura, Yashuharu; Takei, Haruo; Sato, Akira; and Ikeda, Tadashi, 3,677,765.
Nakazawa, Giyoshiyuki; Nakamura, Yashuharu; Takei, Haruo; Sato, Akira; and Ikeda, Tadashi, 3,705,809.
Takei, Kenji: *See*—
Murato, Kenichi; Takei, Kenji; and Takayama, Masayuki, 3,646,891.
Takei, Kensuke: *See*—
Majima, Kanji; Takei, Kensuke; and Oku, Masayuki, 3,660,472.
Takei, Shuzo: *See*—
Nakanishi, Kazuo; and Takei, Shuzo, 3,703,441.
Takei, Toru: *See*—
Koyama, Shigeo; Ohtsuki, Motohiro; Shimatani, Kenji; Yasuda, Masao; Takei, Toru; Kawai, Yasutaka; and Matsushima, Takeshi, 3,644,780.
Takei, Yutaka: *See*—
Iwama, Masabuni; Inoue, Isaburo; Takei, Yutaka; and Endo, Takaya, 3,664,841.
Takeichi, Morio; and Ogura, Kazuhiko, to Elmo Company Limited. Cartridge for a motion picture projector. 3,684,211, 8-15-72, Cl. 242-199.000.
Takeichi, Morio; and Ogura, Kazuhiko, to Elmo Company, Limited. Motion-picture projector for a film contained in a cartridge. 3,702,726, 11-14-72, Cl. 352-72.000.
Takeishi, Yoshiyuki: *See*—
Maeda, Hajime; Takeishi, Yoshiyuki; Sato, Tai; Hara, Hisashi; and Okamoto, Yoshihiko, 3,634,737.
Takeishi, Yoshiyuki; Hara, Hisashi; Sato, Tai; and Sasaki, Isao, to Tokyo Shibaura Electric Co., Ltd. Oxide coated semiconductor device having (311) planar face. 3,636,421, 1-18-72, Cl. 317-235.
Takekawa, Toshio, to Tokekawa Tekko Kabushiki Kaisha. Hydraulic transmission mechanism for heavy rolling stocks and the like. 3,675,507, 7-11-72, Cl. 74-687.000.
Takemasa, Kazuo; and Komada, Hitoshi, to Sanyo Electric Co., Ltd. Refrigerator with fluid amplifier means. 3,675,438, 7-11-72, Cl. 62-156.000.
Takemoto, Kiichi: *See*—
Imoto, Minoru; Takemoto, Kiichi; and Azuma, Heiichi, 3,649,604.
Imoto, Minoru; Takemoto, Kiichi; and Huang, Ching Yun, 3,687,878.
Takemoto, Takeo; Miyata, Yoshihiko; and Kawamura, Takao, to Hitachi, Ltd. Implosion-proof cathode-ray tube and method of making same. 3,647,960, 3-7-72, Cl. 178-7.8.
Takemura, Akira: *See*—
Ohyama, Yasushi; Futaki, Kiyoshi; Tosa, Senji; Horiuchi, Yoshikazu; and Takemura, Akira, 3,666,471.
Takemura, Kazunari: *See*—
Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; and Nishiie, Kazuyoshi, 3,658,792.
Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; Nishiie, Kazuyoshi; Satoh, Sakae; Koide, Tadashi; and Hotta, Yasue, 3,668,200.
Takemura, Kenji: *See*—
Nakahara, Tsuneo; Kurauchi, Noritaka; Kitani, Hiroshi; and Takemura, Kenji, 3,659,094.
Takemura, Susumu: *See*—
Watanabe, Shozo; Ooka, Takayuki; Takemura, Susumu; and Arakawa, Mothohiko, 3,653,981.
Takemura, Toshio: *See*—
Nakashio, Seizo; Takemura, Toshio; and Ota, Kunio, 3,658,945.
Nakashio, Seizo; Takemura, Toshio; and Ota, Kunio, 3,658,949.
Takemura, Toshio; Nakagawa, Isamu; and Nakashio, Seizo, to Sumitomo Chemical Company, Ltd. Stabilization of polyphenylene oxides. 3,635,890, 1-18-72, Cl. 260-47.
Takemura, Yasuo: *See*—
Tajiri, Hisao; Sato, Ituzo; Takemura, Yasuo; and Tsuji, Shigeo, 3,671,664.
Takemura, Yasuo; and Hamaguchi, Kazuo, to Tokyo Shibaura Electric Co., Ltd. Colour television image pickup system. 3,636,247, 1-18-72, Cl. 178-5.4.
Takenaka, Haruo; Hiratsuka, Nobuo; and Okiyama, Toshiaki, to Fuji Photo Film Co., Ltd. Conductive film for electric heater. 3,654,187, 4-4-72, Cl. 252-511.
Takenaka, Haruo; Okiyama, Toshiaki; and Hiratsuka, Nobuo, to Fuji Photo Film Co., Ltd. Means for measuring thickness of sheet material. 3,667,283, 6-6-72, Cl. 73-37.700.
Takenaka, Haruo; Okiyama, Toshiaki; and Hiratsuka, Nobuo, to Fuji Photo Film Co., Ltd. Process for producing resistance films. 3,697,450, 10-10-72, Cl. 252-511.000.
Takenaka, Hiroshi: *See*—

- Sato, Nobuyasu; Nakamura, Toshio; and Takenaka, Hiroshi, 3,669,987.
- Takenaka, Osamu: *See—*
Imai, Takeshi; Matsubara, Tamotsu; and Takenaka, Osamu, 3,697,913.
- Takenaka, Sadao; Kishida, Soichiro; and Yamazaki, Yoichi, to Nippon Cloth Industry Co., Ltd. Cigarette filter materials. 3,670,740, 6-20-72, Cl. 131-261.00r.
- Takenaka, Seisuke: *See—*
Yamanouchi, Akira; Takenaka, Seisuke; and Mitori, Yukio, 3,697,350.
- Takenaka, Shigeo; and Iwamoto, Akira, to Nippon Kayaku Kabushiki Kaisha. Oxydehydrogenation process. 3,669,949, 6-13-72, Cl. 260-680.00e.
- Takenaka, Toshio: *See—*
Early, James R.; Eyring, William M.; McGrath, Donald W.; and Takenaka, Toshio, 3,685,139.
- Takeno, Syozo: *See—*
Murakami, Yoshio; Higashinakagawa, Iwao; Yasuda, Nobuaki; and Takeno, Syozo, 3,671,312.
- Yasuda, Nobuaki; Ogawa, Takenobu; Murakami, Yoshio; Higashinakagawa, Iwao; Takeno, Syozo; and Tanaka, Norio, 3,699,619.
- Takenoshita, Mitsui: *See—*
Ichiryu, Ken; and Takenoshita, Mitsui, 3,672,398.
- Takenoue, Atsushi: *See—*
Suzuki, Yoshitaka; Takenoue, Atsushi; and Kojima, Hideo, 3,699,178.
- Takeo, Keinosuke; Kosugi, Kazuo; and Kamise, Tadaoki, to Sumitomo Electric Industries, Ltd. Method for heat-treating of hot rolled rods. 3,669,762, 6-13-72, Cl. 148-18.
- Takeo, Satoshi: *See—*
Kugita, Hiroshi; Takeo, Satoshi; Sato, Masanori; and Nagao, Taku, 3,646,008.
- Takesago Perfumery Co., Ltd.: *See—*
Seikguchi, Masaaki; Yoshikawa, Kaoru; and Komatsu, Akira, 3,679,133.
- Takeshi, Miura: *See—*
Takuya, Suzuki; Masaru, Ikeda; Yoshio, Furuto; Yukihiro, Nagata; and Takeshi, Miura, 3,682,719.
- Takeshima, Akio; Ueyama, Tadashi; Ohki, Akinori; and Mori, Tet-suo, to Toa Gosei Chemical Industry Co., Ltd. Process for the production of a foamed thermoplastic resin sheet. 3,655,470, 4-11-72, Cl. 156-79.
- Takeshima, Masumi: *See—*
Teramoto, Iwao; Iwasa, Hitoo; Miyai, Yukio; and Takeshima, Masumi, 3,675,161.
- Takeshima, Masumi, to Matsushita Electronics Corporation. Apparatus for generating microwaves having a generating element and variable reactance element in a cavity resonator. 3,705,364, 12-5-72, Cl. 332-18.000.
- Takeshita, Hiroshi: *See—*
Kawabe, Tsuneo; and Takeshita, Hiroshi, 3,684,329.
- Takeshita, Kazuhisa: *See—*
Akamatsu, Akira; Takagi, Yasuo; Iwatsuki, Makoto; Kida, Yoko; and Takeshita, Kazuhisa, 3,695,822.
- Takeshita, Yasuyuki: *See—*
Shimoji, Shusuke; and Takeshita, Yasuyuki, 3,637,236.
- Taketomi, Bunsaku. Adapter device for stitching letters. 3,682,118, 8-8-72, Cl. 112-102.000.
- Taketugu, Yasuyuki: *See—*
Noguchi, Yuichi; Nakanishi, Toru; and Taketugu, Yasuyuki, 3,650,899.
- Takeuchi, Hiroshi: *See—*
Kikuchi, Sieghito; Takeuchi, Hiroshi; and Aman, Norio, 3,690,432.
- Koguma, Kazumasa; Takeuchi, Hiroshi; and Kanamaru, Yuichi, 3,639,697.
- Takeuchi, Hisauke: *See—*
Takahashi, Kazusaburo; Sasaki, Takeshi; Takeuchi, Hisauke; Morita, Keiichi; and Toda, Tadatoshi, 3,652,904.
- Takeuchi, James S.: *See—*
Hunton, James Keith; Kelly, Wayne M.; and Takeuchi, James S., 3,678,395.
- Takeuchi, Kazumi: *See—*
Ikegami, Kazutoshi; Ikeda, Hideo; Takeuchi, Kazumi; Kitamura, Kosuke; and Takahashi, Susumu, 3,648,179.
- Takeuchi, Keisaku: *See—*
Moriyama, Kunimasa; Kogure, Tomio; Sakai, Kozi; and Takeuchi, Keisaku, 3,688,811.
- Takeuchi, Kenji: *See—*
Murakami, Junzo; Asakawa, Shigeo; and Takeuchi, Kenji, 3,665,460.
- Takeuchi, Kiyokazu: *See—*
Kaneda, Isao; and Takeuchi, Kiyokazu, 3,665,243.
- Takeuchi, Koichi; Okada, Takeo; and Aoki, Shinichi, to Mitsubishi Denki Kabushiki Kaisha. Vacuum type circuit interrupter. 3,668,350, 6-6-72, Cl. 200-144.00b.
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- Takeuchi, Makoto; Nakagawa, Kazuo; Miyamae, Teruo; and Kase, Terubumi, to Nihon Denshi Kabushiki Kaisha. Nuclear magnetic resonance spectrometer. 3,646,429, 2-29-72, Cl. 324-5.
- Takeuchi, Masao: *See—*
Yamagishi, Hidehisa; Gunji, Naoki; and Takeuchi, Masao, 3,647,650.
- Yamagishi, Hidehisa; Takano, Hiroshi; and Takeuchi, Masao, 3,679,554.
- Takeuchi, Masatoshi: *See—*
Matsumoto, Jiro; Takeuchi, Masatoshi; Abe, Arimichi; and Sen-goku, Koji, 3,673,010.
- Takeuchi, Satoru: *See—*
Matsubara, Mitio; Yagyu, Shigeyuki; and Takeuchi, Satoru, 3,674,333.
- Takeuchi, Seiji: *See—*
Sagusa, Hisayuki; Takeuchi, Seiji; and Arikawa, Yoshihiro, 3,694,160.
- Takeuchi, Soichiro: *See—*
Iida, Eiichi; Komatsubara, Tsuneo; Ueno, Sadao; Takeuchi, Soichiro; Matui, Etuo; and Sano, Toshio, 3,654,248.
- Takeuchi, Sugio: *See—*
Oba, Harutaro; Sawazu, Toshihiko; Takeuchi, Sugio; and Chikata, Masaru, 3,670,957.
- Oba, Harutaro; Sawazu, Toshihiko; Takeuchi, Sugio; and Yamaguchi, Norio, 3,677,464.
- Takeuchi, Takashi: *See—*
Shindo, Hisao; Nagoya, Yoshishige; Takeuchi, Takashi; and Mu-rai, Kosuke, 3,652,263.
- Takeuchi, Tatsuro: *See—*
Naito, Kenji; Okudo, Hiroshi; Ogino, Katsuhiko; Tanaka, Michio; Kamatani, Yoshio; Mukai, Hiroshi; and Takeuchi, Tatsuro, 3,660,456.
- Takeuchi, Tomio: *See—*
Umezawa, Hamao; Hamada, Masa; Naganawa, Hiroshi; Takeuchi, Tomio; Maeda, Kenji; and Okami, Yoshiro, 3,639,382.
- Umezawa, Hamao; Maeda, Kenji; Takeuchi, Tomio; Nitta, Kazuo; Okami, Yoshiro; and Ogawara, Hiroshi, 3,655,877.
- Umezawa, Hamao; Maeda, Kenji; Okami, Yoshiro; and Takeuchi, Tomio, 3,681,491.
- Takeuchi, Yasuhiro: *See—*
Miki, Masakazu; Takeuchi, Yasuhiro; and Kuwahara, Hisaharu, 3,642,518.
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Horie, Tatsuo; Fujiwara, Yasuo; and Takezono, Tetsuya, 3,634,524.
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- Goto, Yasuo; and Taki, Akio, 3,655,396.
- Taki Fertilizer Manufacturing Co., Ltd.: *See—*
Akazawa, Hakuichi; Washio, Shigeaki; Kaji, Keiji; and Fujita, Shisao, 3,645,677.
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Washio, Shigeaki; and Araki, Shunji, 3,652,623.
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Takahashi, Hideomi; and Takigami, Katsuhiko, 3,678,361.
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Ota, Tomiyoshi; Takigawa, Katunobu; and Honda, Masasada, 3,699,948.
- Takigawa, Shoji: *See—*
Fujimoto, Takehiko; Nishimura, Mikio; and Takigawa, Shoji, 3,651,029.
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Takagi, Nobuo; and Takiguchi, Takashi, 3,691,622.
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Ishii, Takami; Sugiura, Shotaro; and Takikawa, Naohisa, 3,687,898.
- Takikawa, Toshio; Satomo, Kouji; and Kodama, Takashi, to Osaka Soda Co., Ltd. Method of making resin-impregnated sheet laminated to a substrate. 3,671,354, 6-20-72, Cl. 156-306.000.
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Fujita, Saburo; Ban, Hiroshi; and Takikawa, Yukio, 3,702,651.
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Kawai, Atsushi; Katsuyama, Takehiro; Suzuki, Migaku; and Takimoto, Hisao, 3,697,637.
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- Takimoto, Hisateru: *See—*
Ohnishi, Shigekazu; Nishishita, Masaharu; and Takimoto, Hi-sateru, 3,703,403.
- Takimoto, Masaaki: *See—*
Honjo, Satoru; Tamai, Yasuo; Sato, Masamichi; Matsumoto, Seichi; and Takimoto, Masaaki, 3,689,260.
- Honjo, Satoru; Takimoto, Masaaki; Matsumoto, Seiji; and Kosuge, Kuniko, 3,705,032.
- Honjo, Satoru; Taguchi, Seichi; Takimoto, Masaaki; and Miyat-suka, Hajime, 3,707,392.
- Matsumoto, Seiji; Tamai, Yasuo; Takimoto, Masaaki; and Sato, Masamichi, 3,672,887.
- Sato, Masamichi; Fukushima, Osamu; Miyazuka, Hajime; Takimoto, Masaaki; Matsumoto, Seiji; Tamai, Yasuo; and Honjo, Satoru, 3,685,907.
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Shimamura, Tadao; and Takimoto, Yukio, 3,643,180.
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Shiro, Teruo; Takinami, Koichi; Akutsu, Eiichi; Yoshii, Hiroe; and Yamada, Yasutsugu, 3,704,205.
- Takishima, Yoshiyuki: *See—*
Kitanosono, Tatsushi; Mashimo, Yukio; and Takishima, Yoshiyuki, 3,678,354.
- Mizui, Seiichi; and Takishima, Yoshiyuki, 3,687,042.
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Nakada, Yasuo; and Takita, Hideo, 3,679,933.
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- Araki, Tadashi; Takita, Hitoshi; and Asano, Kiro, 3,666,417.
- Takita, Kiyoshi: *See—*
Nishimura, Tatsumi; Shinohara, Hiroshi; Takita, Kiyoshi; and Kado, Masaru, 3,646,043.
- Takita, Masatoshi: *See—*
Takamizawa, Minoru; Hayashi, Takayoshi; Uzawa, Kazumoto; Takita, Masatoshi; and Kudo, Yoshiaki, 3,642,596.
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Imai, Masaya; Izubayashi, Masuji; Takiyama, Keiichi; Hirai, Mit-suo; and Nikki, Masao, 3,647,904.
- Takizawa, Haruki: *See—*
Fukushima, Takaaki; Takizawa, Haruki; Hori, Kikuo; Sato, Yoshito; and Mizumori, Haruhiko, 3,671,623.
- Knodo, Takao; and Takizawa, Haruki, 3,665,070.
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Yanagi, Masana; Nakamura, Itaru; Ohosugi, Masayuki; Takizawa, Kiyos; Kakinami, Masanori; and Sano, Chikara, 3,658,634.
- Takizawa, Masau: *See—*
Takahashi, Yoshinori; Sasaki, Rokuro; Watanabe, Kikuo; and Takizawa, Masau, 3,685,618.
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Arisaka, Kunio; and Takizawa, Toshikazu, 3,698,299.
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Tatsutomi, Yasuo; and Takokoro, Tomoo, 3,685,295.
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Kaasenbrood, Petrus J. C.; and Taks, Gerardus J. J. M., 3,647,872.
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Minami, Tohru; Nishio, Mikio; Toyama, Ichiro; Kawano, Shigeyoshi; Imai, Masumi; Takuma, Yutaka; and Kitanosono, Hidehiro, 3,688,555.
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Spicer, Alvin W.; and Talalay, Anselm, 3,700,365.
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Lucas, Paul G.; and Talambiras, Robert P., 3,634,659.
- Talarico, Lawrence J., to Anderson Bros. Mfg. Co. Rotary heat-seal-ing and cut-off mechanism. 3,706,183, 12-19-72, Cl. 53-329.000.
- Talavera, Jorge Cervantes: *See—*
Guardado, Jose Cavazos; Talavera, Jorge Cervantes; and Ibarra, Alcibiades Gonzalez, 3,693,723.
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Davis, James A.; Talbot, Sherwood G.; Hazard, Herbert R.; and Gibeault, William A., 3,663,203.
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Guss, Reuben, 3,688,864.
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McLaughlin, Richard T.; Talbot, Frederick G.; Kurtzo, Lawrence E., Jr.; and Moulton, Frederick T., 3,632,892.
- Talbot, Howard Hubbell, to United Engineering and Foundry Com-pany. Crown control. 3,657,913, 4-25-72, Cl. 72-242.
- Talbot, James R.: *See—*

- Binford, Jack C.; Ethridge, Fredrick A.; and Talbot, James R., 3,654,677.
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- Talbot, George Robert: *See—*
- Paxton, Douglas R.; and Talbot, George Robert, 3,690,807.
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- Polmanteer, Keith E.; Willing, David N.; and Talcott, Thomas D., 3,697,473.
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- Horn, Fordyce H.; Porter, Joseph W.; and Talento, Joseph L., 3,663,775.
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- Akhmedov, Rustam Berovich; Talibdzhanov, Zakhidzhan Sadykdzhanovich; Valikhodzhaev, Asomkhodzha; and Rashidov, Faizulla Karimovich, 3,664,587.
- Talish, Roger J.: *See—*
- Tawfik, David A.; Talish, Roger J.; and Yurasek, John F., 3,650,628.
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- Ohlson, Arvid T.; and Tall, Kenneth I., 3,651,991.
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- Johnson, William R.; Sevy, William R.; Weigel, James E.; and Taller, Robert A., 3,701,746.
- Talley, Billy D. Fish-handling device. 3,664,703, 5-23-72, Cl. 294-118.000.
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- Roberts, Leonard N., 3,663,324.
- Talley Industries, Inc.: *See—*
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- Talley, James C.: *See—*
- Rose, Millard F.; and Talley, James C., 3,664,262.
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- Evans, Ronald James Peter, 3,678,520.
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- Brooks, Warren B.; Dean, James T.; Manning, William F.; Rupp, Lewis A.; and Talley, William A., Jr., 3,682,242.
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- Roberts, Leonard N., 3,659,652.
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- Seppol, Arnold Ivanovich, 3,680,553.
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- Stephens, James M.; and Tallman, Erven, 3,664,459.
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- Andrew, Kenneth F.; Tallman, Richard L.; and Gulbransen, Earl A., 3,672,814.
- Gulbransen, Earl A.; Tallman, Richard L.; Andrew, Kenneth F.; and Buzalski, Bruce T., 3,675,004.
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- McCutcheon, Homer W., 3,656,394.
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- Confer, Raymond C.; and Talmon, Floyd H., 3,705,931.
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- Blose, James H.; Pinell, William F.; and Talvalkar, Shashikant G., 3,663,278.
- Blose, James H.; and Talvalkar, Shashikant G., 3,674,535.
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- Kubota, Hiroyuki; Tamada, Akihiro; and Uemura, Motonori, 3,684,493.
- Tamada, Mitsuaki: *See—*
- Hayakawa, Ken; and Tamada, Mitsuaki, 3,644,713.
- Hayakawa, Ken; and Tamada, Mitsuaki, 3,652,829.
- Tamada, Sieechi: *See—*
- Haga, Ichiro; and Tamada, Sieechi, 3,701,146.
- Tamag Basel A.G.: *See—*
- Buchmann, Paul; and Beringer, Monique, 3,696,816.
- Buchmann, Paul; and Beringer, Monique, 3,704,715.
- Tamagawa Kikai Kinzoku Kabushiki Kaisha: *See—*
- Hara, Ei; and Watanabe, Takashi, 3,635,617.
- Hara, Ei; and Suzuki, Shohachi, 3,671,164.
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- Hara, Ei; and Yokoyama, Tatsuchi, 3,687,586.
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- Matsumoto, Seiichi; Tamai, Yasuo; and Sto, Masamichi, 3,671,290.
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- Sato, Masamichi; Tamai, Yasuo; Matsumoto, Seiichi; and Honjo, Satoru, 3,642,515.
- Sato, Masamichi; Fukushima, Osamu; Miyazuka, Hajime; Takimoto, Masaaki; Matsumoto, Seiichi; Tamai, Yasuo; and Honjo, Satoru, 3,685,907.
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- Tamamura, Toshio: *See—*
- Ohno, Yoshio; Eda, Korekiyo; Tamamura, Toshio; and Yamasaki, Kosaburo, 3,687,784.
- Tamanaka, Yoshimasa: *See—*
- Tanaka, Shigeaki; Tamanaka, Yoshimasa; and Nakamura, Tadashi, 3,651,361.
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- Morgan, Daniel H.; and Herndon, Jackie E., 3,654,598.
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- DePasquale, Ralph J.; and Tamborski, Christ, 3,637,866.
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- Jaycox, Willard R., 3,696,812.
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- Stewart, John Kenneth, 3,677,187.
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- Keppler, John E.; and Harris, Jesse W., 3,683,763.
- Tamugi, Norifusa: *See—*
- Sato, Koichi; Tamugi, Norifusa; and Abe, Katsutoshi, 3,637,568.
- Tamuki, Minoru: *See—*
- Ohno, Isamu; Kobayashi, Akio; Ohte, Akira; Tamuki, Minoru; and Ohta, Susumu, 3,655,992.
- Tamura Electric Works, Limited: *See—*
- Honda, Yukio; and Kawamura, Tsukasa, 3,654,605.
- Shibuya, Tadahiko, 3,660,941.
- Suzuki, Akira; Esashi, Yoshiaki; and Nakanishi, Tsunemoto, 3,687,397.
- Tamura, Gakuzo: *See—*
- Arima, Kei; Tamura, Gakuzo; and Kakinuma, Atsushi, 3,687,926.
- Arima, Kei; Tamura, Gakuzo; Sakai, Heiichi; and Kohsaka, Masanobu, 3,692,777.
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- Kondo, Toshio; and Tamura, Hifumi, 3,699,381.
- Omura, Iitro; Kondo, Toshio; and Tamura, Hifumi, 3,686,499.
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- Tamura, Koji: *See—*
- Fujino, Kiyoshi; Otsuka, Shigenobu; Kaichi, Tetuo; Sugiyama, Takaharu; and Tamura, Koji, 3,693,385.
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- Kominami, Naoya; Tamura, Nobuhiro; and Yamamoto, Etsuo, 3,689,583.
- Kominami, Naoya; Nakajima, Hitoshi; Tamura, Nobuhiro; and Ohki, Kusuo, 3,634,496.
- Tamura, Shozo: *See—*
- Oikawa, Mitsuru; Tamura, Shozo; and Okabe, Tadao, 3,688,359.
- Okabe, Tadao; Tanaka, Makoto; Tamura, Shozo; Fukushima, Masakazu; and Oikawa, Mitsuru, 3,668,002.
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- Komatsu, Youji; Tamura, Takeshi; Fujii, Kinya; and Hatsutori, Masafumi, 3,665,034.
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- Sakurai, Yo; Tamura, Teizo; and Hashimoto, Norikazu, 3,656,229.
- Tamura, Yoshiaki: *See—*
- Yoshi, Masateru Kuni; Yamada, Hayatoshi; Fukasawa, Katsumi; and Tamura, Yoshiaki, 3,696,278.
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Inoue, Masao; and Tamura, Zenzo, 3,644,734.
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Rudolph, Rene; and Tan, Tjhung Thian, 3,686,532.
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- Tanabe Kakoki Co., Ltd.: *See—*
Fujiwara, Yoshiyuki, 3,676,564.
- Tanabe, Kaname: *See—*
Seki, Yoshitaka; and Tanabe, Kaname, 3,644,970.
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Shirasaka, Makoto; Tanabe, Katsumi; Naito, Atsushi; and Ieki, Masako, 3,639,212.
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Nakamura, Katsuyuki; Tanabe, Masanori; Mizoguchi, Yoshiyuki; and Fukuda, Hirohisa, 3,636,174.
- Takahasi, Hiroshi; Tanabe, Masanori; Yamaguchi, Muneaki; and Shihara, Isao, 3,644,548.
- Tanabe, Osamu: *See—*
Suzuki, Hideo; Ozawa, Yoshiko; and Tanabe, Osamu, 3,647,625.
- Tanabe Seiyaku Co., Ltd.: *See—*
Chibata, Ichiro; Tosa, Tetsuya; Sano, Ryujiro; and Ando, Katsuko, 3,652,402.
- Chibata, Ichiro; Yamada, Shigeki; and Yamamoto, Masao, 3,660,474.
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- Fujimura, Hajime; Tanaka, Tadasu; Wagatsuma, Mitsuyoshi; Iwakuma, Takeo; and Miyazaki, Michihiko, 3,649,634.
- Kugita, Hiroshi; Takeo, Satoshi; Sato, Masanori; and Nagao, Taku, 3,646,008.
- Miyoshi, Munetugu; Niwa, Kouichi; Ohnishi, Takanobu; Danno, Tamotsu; and Higaki, Koh, 3,652,531.
- Okumura, Kentaro; Inoue, Ichizo; and Kondo, Kazuhiko, 3,632,806.
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- Utsumi, Isamu; Watanabe, Toshiro; Kohno, Keiichi; Daira, Isamu; and Otsubo, Akira, 3,644,385.
- Watanabe, Toshiro; Tsukamoto, Goro; Hayashi, Kimiaki; Sato, Masanori; and Iwasawa, Yoshio, 3,647,799.
- Tanabe Swiyaku Co., Ltd.: *See—*
Yoneda, Naoto; Ishihara, Teruo; Kobayashi, Tetsuji; Kondo, Yasuzo; Okumura, Kentaro; Kojima, Michio; and Nose, Takashi, 3,673,195.
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Takeya, Kenji; Sekiguchi, Hideto; Tanahashi, Kunio; and Tsuge, Junji, 3,681,275.
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Marrujo, Ralph G.; and Tanaka, Aki, 3,652,050.
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Hasegawa, Hidenobu; Kusuda, Zenji; Tanaka, Akira; and Noritani, Jinichiro, 3,633,082.
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Murata, Tomoji; and Tanaka, Atsuyuki, 3,671,123.
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Tokumoto, Shin-ichi; and Tanaka, Eiji, 3,662,047.
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Yamaguchi, Shunzo; and Tanaka, Eizi, 3,688,835.
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Nakao, Yoshio; Kuno, Mitsuzo; Yamatodani, Saburo; Tanaka, Fumihiko; and Nojiri, Tsutomu, 3,669,836.
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Kato, Masao; Tanaka, Goro; and Yamamoto, Setgoro, 3,644,736.
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Nakayama, Kiyoshi; Tanaka, Haruo; and Kase, Hiroshi, 3,684,654.
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Kosaka, Kenzo; Tsunewaki, Masami; Tanaka, Hideo; and Aoki, Akira, 3,702,055.
- Tanaka, Hirokazu: *See—*
Tashiro, Kenichi; and Tanaka, Hirokazu, 3,680,024.
- Tanaka, Hiroshi: *See—*
Inoue, Eiichi; Yamaji, Keizo; Tanaka, Hiroshi; and Saito, Takashi, 3,653,064.
- Inoue, Eiichi; Yamaji, Keizo; Tanaka, Hiroshi; and Saito, Takashi, 3,673,595.
- Itoh, Yoshio; and Tanaka, Hiroshi, 3,663,100.
- Tsuneta, Asahide; Tanaka, Hiroshi; and Kiriake, Yoshifumi, 3,652,895.
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Itakura, Jo; Tanaka, Hisao; and Ito, Hiroo, 3,634,528.
- Tanaka, Ikuo: *See—*

- Togashi, Shozo; Makijima, Yoshijima; Tanaka, Ikuo; and Narita, Kaoru, 3,643,396.
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Imada, Osamu; Hoshiai, Kazuo; and Tanaka, Masatami, 3,635,796.
- Imada, Osamu; Hoshiai, Kazuo; and Tanaka, Masatami, 3,645,846.
- Tanaka, Masatami; and Hirotani, Tadashi, 3,642,257.
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Fujinami, Akira; Ozaki, Toshiaki; Horiuchi, Fukashi; Yamamoto, Sigeo; Akiba, Keiichi; Tanaka, Katsutoshi; Ooba, Shigehiro; Oishi, Tadashi; Nodera, Katsuji; and Kameda, Nobuyuki, 3,668,217.
- Tsuchiya, Hiroshi; Kunio, Nishinomiya-Shi; Kimura, Akio; Kawano, Suminori; Fujimoto, Keimei; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Tanaka, Katsutoshi; Oishi, Tadashi; and Takeda, Hisami, 3,670,057.
- Tanaka, Kazumitsu: *See—*
Miyauchi, Sakae; Tanaka, Kazumitsu; and Goto, Nobuo, 3,701,847.
- Tanaka, Kazunobu: *See—*
Chujo, Kiyoshi; Tanaka, Kazunobu; and Ohata, Keiichi, 3,634,366.
- Kohashi, Tadao; and Tanaka, Kazunobu, 3,669,907.
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Oshima, Yasuo; Nakazawa, Nobuhiko; Nagasaki, Senkichi; Naito, Takeo; Osada, Yasuaki; Okusa, Naoya; Inuaki, Akira; and Tanaka, Kazuyuki, 3,705,989.
- Tanaka, Kinji: *See—*
Cook, Elton S.; and Tanaka, Kinji, 3,632,753.
- Tanaka, Kiyoshi: *See—*
Kumai, Ko; Motoyoshi, Minoru; Tanaka, Kiyoshi; and Hagiwara, Yasuhira, 3,671,337.
- Tanaka, Koji: *See—*
- Shiraishi, Tetsuya; Utsugi, Jun; Tanaka, Koji; and Tokusa, Yasunori, 3,655,746.
- Tanaka, Kozo: *See—*
Matsushita, Fukusaburo; Saji, Yasuo; Saito, Kazuhisa; Tanaka, Kozo; and Yoshinari, Osamu, 3,702,880.
- Tanaka, Kyugo: *See—*
Honda, Makoto; Tanaka, Kyugo; and Watanabe, Itaru, 3,703,548.
- Tanaka, Makoto: *See—*
Nishiyama, Shizuo; and Tanaka, Makoto, 3,681,527.
- Okabe, Tadao; Tanaka, Makoto; Tamura, Shozo; Fukushima, Masakazu; and Oikawa, Mitsuru, 3,668,002.
- Okabe, Tadao; Oikawa, Mitsuru; Tanaka, Makoto; and Nagashiro, Waichi, 3,703,374.
- Tanaka, Ikuo; Uehara, Hideo; and Tanaka, Makoto, 3,658,810.
- Tanaka, Masaaki: *See—*
Nishiyama, Akira; Fukui, Tooru; Takahashi, Satoshi; Takashima, Yuji; Nakano, Masaaki; Izura, Yoshiteru; and Tanaka, Masaaki, 3,689,155.
- Tanaka, Masao: *See—*
Sato, Yoshinari; Itoh, Hiroshi; Sano, Hideki; and Tanaka, Masao, 3,635,046.
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Sato, Yoshikazu; and Tanaka, Masaru, 3,637,058.
- Tanaka, Masatami: *See—*
Imada, Osamu; Hoshiai, Kazuo; and Tanaka, Masatami, 3,635,796.
- Imada, Osamu; Hoshiai, Kazuo; and Tanaka, Masatami, 3,645,846.
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Sano, Keizo; Watanabe, Taigi; Tanaka, Michihiko; Ichikawa, Yoshimitsu; Kato, Koichi; and Matsuura, Hirokichi, 3,682,846.
- Tanaka, Michio: *See—*
Naito, Kenji; Okudo, Hiroshi; Ogino, Katsuhiko; Tanaka, Michio; Kamatani, Yoshio; Mukai, Hiroshi; and Takeuchi, Tatsuro, 3,660,456.
- Tanaka, Minoru: *See—*
Mochizuki, Mitsuko; Tanaka, Minoru; and Koyama, Tadataka, 3,691,656.
- Tanaka, Mizuo: *See—*
Yamagishi, Hidehisa; and Tanaka, Mizuo, 3,702,287.
- Tanaka, Motoaki: *See—*
Sakamoto, Kenro; Tanaka, Motoaki; Hanzawa, Teruo; and Kasai, Keiji, 3,700,454.
- Tanaka, Norio: *See—*
Yasuda, Nobuaki; Ogawa, Takenobu; Murakami, Yoshio; Higashinakagawa, Iwao; Takeno, Syozo; and Tanaka, Norio, 3,699,619.
- Tanaka, Noritoshi: *See—*
Isobe, Hiroshi; Aoki, Hachiro; and Tanaka, Noritoshi, 3,640,258.
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- Tanaka, Osamu: *See—*
Godai, Tomokazu; and Tanaka, Osamu, 3,692,590.
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- Hizume, Akio; Ohya, Shuji; and Tanaka, Shigeo, 3,651,688.
- Tanaka, Shunji: *See—*
- Ume, Kaoru; Tanaka, Shunji; and Gomi, Shinpei, 3,663,248.
- Tanaka, Susumu: *See—*
- Kushima, Teizo; Tanaka, Susumu; and Ogawa, Masaya, 3,690,759.
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- Matsuda, Shozo; Tanaka, Tadashi; Murayama, Koizou; Yamamoto, Kunimitsu; Oka, Joji; Takahashi, Ryoji; and Koyama, Megumi, 3,663,383.
- Tanaka, Tadasu: *See—*
- Fujimura, Hajime; Tanaka, Tadasu; Iijima, Ikuo; Miyazaki, Michihiko; and Masaki, Masao, 3,642,802.
- Fujimura, Hajime; Tanaka, Tadasu; Wagatsuma, Mitsuyoshi; Iwakuma, Takeo; and Miyazaki, Michihiko, 3,649,634.
- Tanaka, Takashi: *See—*
- Wakamura, Nobuo; Okada, Hiroshi; Osakada, Atsushi; and Tanaka, Takashi, 3,645,928.
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- Saito, Kazuo; Tanaka, Takeshi; and Saito, Ichiro, 3,651,177.
- Saito, Kazuo; Tanaka, Takeshi; and Saito, Ichiro, 3,670,052.
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- Kubotera, Haruo; Nakaoka, Kazuhide; Watanabe, Kaoru; and Tanaka, Teruhisa, 3,657,022.
- Tanaka, Teruo: *See—*
- Sato, Yasunobu; Takagi, Hiromu; Tanaka, Teruo; and Kamoshida, Katsuo, 3,644,376.
- Tanaka, Tetsuo: *See—*
- Arai, Fumiaki; Ohta, Wasaburo; Kurokawa, Junki; Usui, Noriyuki; Shimizu, Sakae; and Tanaka, Tetsuo, 3,682,632.
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- Ishida, Shinichi; Fujita, Norimasa; Oshima, Yoshisada; Tanaka, Teturo; and Hiruta, Mitito, 3,657,189.
- Tanaka, Toru: *See—*
- Iwasaki, Koichiro; Yamaguchi, Kazuo; Kimura, Harutaka; Hasuo, Masayoshi; and Tanaka, Toru, 3,674,764.
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- Kanada, Takashi; and Tanaka, Toshio, 3,640,381.
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- Yokota, Yoshiyuki; Miyagawa, Takashi; Tanaka, Yasuto; and Torii, Tatuki, 3,690,929.
- Tanaka, Yasuyuki: *See—*
- Nakagami, Norihiko; Tanaka, Yasuyuki; Kotaka, Katsuhiko; and Seki, Masamitsu, 3,652,806.
- Tanaka, Yoshiaki: *See—*
- Tachikawa, Kyoji; Tanaka, Yoshiaki; and Fukuda, Satoshi, 3,674,553.
- Tanaka, Yoshihiro: *See—*
- Nakamura, Yasushi; Agatsuma, Kunio; Tanaka, Yoshihiro; and Aono, Shunji, 3,658,829.
- Tanaka, Yoshimasa: *See—*
- Yamada, Norio; Tanaka, Yoshimasa; Ono, Taisuke; and Ikejima, Yoritaka, 3,675,324.
- Tanaka, Yoshinobu; and Takahashi, Kiyoshi, to Teikoku Dempa Co., Ltd. Device for connecting electrical circuits. 3,645,540, 2-29-72, Cl. 274-4.
- Tanaka, Yoshito: *See—*
- Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, 3,652,345.
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- Umeda, Shinobu; Miyagawa, Yoshiaki; Tanaka, Yutaka; Tanaka, Yukio; and Nakamura, Ryoji, 3,703,818.
- Yuri, Yoshio; and Tanaka, Yukio, 3,666,253.
- Tanaka, Yusaku: *See—*
- Ando, Satoshi; Tanaka, Yusaku; Onuma, Sadao; and Ogata, Fumimaro, 3,642,568.
- Ando, Satoshi; Tanaka, Yusaku; Kojima, Minoru; and Fujimura, Kyoichi, 3,669,917.
- Tanaka, Yutaka: *See—*
- Umeda, Shinobu; Miyagawa, Yoshiaki; Tanaka, Yutaka; Tanaka, Yukio; and Nakamura, Ryoji, 3,703,818.
- Tanaka, Yutaka; and Kobitsu, Koichi, to Matsushita Electric Industrial Co., Ltd. and Toho Denki Co., Ltd. Color facsimile synchronization system. 3,652,783, 3-28-72, Cl. 178-5.2.
- Tanczyn, Harry, to Armco Steel Corporation. Wear-resistant stainless steel. 3,663,215, 5-16-72, Cl. 75-128.
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- Shimazaki, Hiroshi; Irie, Toshio; Tanda, Toshikuni; and Ichi, Tomoyuki, 3,666,568.
- Tandara, Milan, to Bosnalijek. Synthesis of ϵ -aminocaproic acid from ϵ -caprolactam. 3,655,748, 4-11-72, Cl. 260-534.
- Tandeski, David A.: *See—*
- Gerlach, Le Roy E.; Johnson, Gordon P.; and Tandeski, David A., 3,669,262.
- Tandy, Thomas King, Jr., to Du Pont de Nemours, E. I., and Company. Fluorinated oil- and water-repellent and dry soil resistant polymers. 3,645,989, 2-29-72, Cl. 260-80.73.
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- Tang, Donald T.: *See—*
- Kobayashi, Hisashi; and Tang, Donald T., 3,648,265.
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- Tang, Pak Chong: *See—*
- Olsen, Perry Charles; and Tang, Pak Chong, 3,673,318.
- Olsen, Perry Charles; and Tang, Pak Chong, 3,679,819.
- Tangard, Einar W.: *See—*
- Garfinkle, Marvin E.; Schmeck, Robert E.; and Tangard, Einar W., 3,633,693.
- Tangen Drives, Inc.: *See—*
- Schultz, George E., 3,658,207.
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- Tanguay, Jean-Paul, 3,693,743.
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- Yazawa, Masahide; and Tani, Haruhisa, 3,669,795.
- Yazawa, Masahide; and Tani, Haruhisa, 3,677,484.
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- Mifune, Hideo; and Tani, Kenroku, 3,675,053.
- Tani, Zenpei: *See—*
- Sakurai, Takeshi; and Tani, Zenpei, 3,676,228.
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- Karakawa, Kouichi; and Tanigawa, Shogo, 3,633,882.
- Tanigawa, Yoshiyuki: *See—*
- Hozumi, Shiro; Hirai, Kenichi; Tanigawa, Yoshiyuki; Yoshida, Katuru; and Sugihara, Kanji, 3,673,666.
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- Oshima, Teruo; Wada, Takeshi; Nagase, Tsuneyuki; Masuko, Fujio; Hirooka, Masaaki; and Taniguchi, Isoji, 3,671,506.
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- Haruna, Takashi; and Taniguchi, Kazutaka, 3,674,951.
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- Taniguchi, Koichi: *See—*
- Ando, Noriyoshi; Okamoto, Atutoshi; Taniguchi, Koichi; Nakano, Yoshiaki; and Toyama, Koichi, 3,652,132.
- Okamoto, Atutoshi; Taniguchi, Koichi; Nakano, Yoshiaki; and Toyama, Koichi, 3,658,389.
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- Taniguchi, Kunichiko: *See—*
- Kawakita, Takao; Ikeda, Hiroaki; Matsumura, Shigeru; and Taniguchi, Kunichiko, 3,671,300.
- Taniguchi, Kyuhei: *See—*
- Yoneda, Shoji; Agari, Taiichiro; Goto, Tetsuo; and Taniguchi, Kyuhei, 3,680,515.
- Taniguchi, Masaharu: *See—*
- Minami, Muneyoshi; Taniguchi, Masaharu; Tsutsumi, Tadao; Murakami, Masakazu; and Yoshii, Toshiya, 3,673,145.
- Taniguchi, Masanobu: *See—*
- Kawasaki, Akihiro; Taniguchi, Masanobu; and Nishiyama, Tsuneto, 3,658,775.
- Kawasaki, Akihiro; Ueda, Hiroaki; and Taniguchi, Masanobu, 3,673,165.
- Taniguchi, Shinzo: *See—*
- Okamoto, Miyoshi; Ashida, Keiichi; and Watanabe, Koji, 3,692,423.
- Taniguchi, Tetsuji; Fukui, Kakichi; Imai, Shiro; Hayashi, Masahiro; and Seki, Koichi, to Hitachi, Ltd. Rolling mill. 3,678,722, 7-25-72, Cl. 72-238.000.
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- Kitano, Hisao; and Tanimoto, Fumio, 3,700,667.
- Tanimoto, Kenji: *See—*
- Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,647,866.
- Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,662,000.
- Tanimura, Hiroshi: *See—*
- Kaneko, Ryuichi; Saito, Toshiya; Fujimura, Yasushi; Tanimura, Hiroshi; Nakamura, Totaro; and Ikeda, Yukisaburo, 3,676,585.
- Tanimura, Kensaku: *See—*
- Koda, Ken'ichi; Kikuchi, Shoji; Wada, Tsuneo; Kuwabara, Yoshimi; Horikoshi, Akira; Tanimura, Kensaku; and Sugita, Sadao, 3,704,128.
- Tanimura, Masamitsu: *See—*
- Komatsu, Hideo; Yuguchi, Sadao; Tanimura, Masamitsu; and Matsukawa, Hiroshi, 3,705,130.
- Tsuda, Yoshizo; Yamamoto, Akinori; and Tanimura, Masamitsu, 3,652,509.
- Tanimura, Noboru: *See—*
- Kobayashi, Hidehiko; Sasaguri, Kiichiro; Oimachi, Irumagun; Neki, Kazuya; and Tanimura, Noboru, 3,689,623.
- Tanimura, Shigeru: *See—*
- Uekusa, Genzo; Tanimura, Shigeru; Higashi, Kazuhiro; and Sumoto, Takao, 3,679,949.
- Uekusa, Genzo; Tanimura, Shigeru; and Maejima, Norio, 3,707,686.
- Yamamoto, Mitiaki; Uekusa, Genzo; Tanimura, Shigeru; and Maejima, Norio, 3,648,117.
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- Tanino, Yukio: *See—*
- Hattori, Kenichi; Ueda, Yuichi; and Tanino, Yukio, 3,634,315.
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- Svensson, Kjell Charles, 3,656,663.
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- Tannenbaum, Marcel: *See—*
- Schwartz, Robert; Manolache, Constantin; Tannenbaum, Marcel; Vasile, Gheorghe; Rey, Vasile; Sima, Constantin; and Cambureau, Aurel, 3,692,277.
- Tannenbaum, Stanley: *See—*
- Lum, Andrew F.; and Tannenbaum, Stanley, 3,658,609.
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- Magat, Eugene Edward; and Tanner, David, 3,670,048.
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- Pollard, Melville R., Jr., 3,635,137.
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- Davis, William H.; Hornung, Louis M.; Lindsey, Royce D.; and Tanner, Howard C., 3,647,041.
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Ichinose, Noboru; Yokoyama, Katsunori; Egami, Harutoshi; and Tanno, Yoshikazu, 3,645,974.
 Ichinose, Noboru; Egami, Harutoshi; Yokoyama, Katsunori; and Tanno, Yoshikazu, 3,661,781.
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 Tanura, Yuichi: *See—*
 Toda, Kazuo; Murai, Tosuke; Miura, Chikatoshi; and Tanura, Yuichi, 3,694,196.
 Tanygin, Vitaly Matveevich: *See—*
 Koshkin, Lev Nikolaevich; Zazhigin, Alexei Sergeevich; Tanygin, Vitaly Matveevich; Chagin, Valentin Petrovich; and Khomenko, Vasily Iosipovich, 3,631,965.
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 Ito, Hiroo; Nakamura, Seiichi; and Inoue, Hidemu, 3,640,902.
 Tao, Tien-Yu: *See—*
 Chang, David C.; Schools, Rodman S.; Sincerbox, Glenn T.; and Tao, Tien-Yu, 3,632,214.
 Taoka, Kenjiro: *See—*
 Kondo, Iwao; Taoka, Kenjiro; and Sasgawa, Kenji, 3,705,286.
 Taormina, Anthony J.: *See—*
 Hartz, Marvin E.; Taormina, Anthony J.; and Grebik, Stephen J., 3,676,838.
 Tap, Henry H., to Oak Electro/Netics Corporation. Fine tune mechanism. 3,646,823, 3-7-72, Cl. 74-10.45.
 Tapecon, Inc.: *See—*
 Wild, Albert F., 3,678,212.
 Tapeler Corporation: *See—*
 Way, David G., 3,649,413.
 Tapert, Thomas J.; and Current, James H., to Apex Electrophysis, Inc. Tape severing device. 3,665,798, 5-30-72, Cl. 83-575.000.
 Tapeswitch Corporation of America: *See—*
 Koenig, Robert H., 3,694,600.
 Taplin, Lael B., to Bendix Corporation. The Fluid oscillator for a linear output accelerometer. 3,677,095, 7-18-72, Cl. 73-515.000.
 Taplin, Stanley Donovan; and Pettitt, Malcolm Jack, to International Computer Limited. Circuit interconnecting cables and methods of making such cables. 3,700,825, 10-24-72, Cl. 174-36.000.
 Tapolcai, Laszlo: *See—*
 Stefan, Mihaly; Balazs, Fulop; Hegedus, Zoltan; and Tapolcai, Laszlo, 3,650,851.
 Tapp, James S.; Colwell, Robert E.; and Toney, Myron K., to Monsanto Company. Method of producing controlled-form precipitates. 3,661,864, 5-9-72, Cl. 260-78.
 Tapp, James S.; Beemsterboer, George L.; and Salyer, Ival O., to United States of America, Health, Education and Welfare, mesne. Hollow, fiber, artificial kidney with disposable dialyzing cartridge. 3,698,560, 10-17-72, Cl. 210-321.000.
 Tappan Company, The: *See—*
 Lamb, John T.; and Anderson, Carl L., 3,673,464.
 Perl, Richard L., 3,646,927.
 Perl, Richard L., 3,682,157.
 Tappan Company, The, mesne: *See—*
 Granieri, George John; and Lefkowitz, Edward Herbert, 3,700,914.
 Tappeiner, Hermann, to Siemens Aktiengesellschaft. Self-commutating direct-to-alternating current inverter. 3,676,763, 7-11-72, Cl. 321-45.00c.
 Tapply, William G.: *See—*
 Michnik, Lewis; and Tapply, William G., 3,665,321.
 Tapsco, Jesse J.; and Andersen, Harold T., to Rietz Manufacturing Co. Apparatus for material fluffins. 3,671,019, 6-20-72, Cl. 259-8.
 Taquino, Thomas P.: *See—*
 Hieber, Ellsworth E.; Taquino, Thomas P.; and Hillery, Frank Edward, 3,668,976.
 Tarancon, Gregorio: *See—*
 Prince, Martin; Blanck, Hillard; and Tarancon, Gregorio, 3,667,191.
 Taranto, Michael A. Floatable washcloth. 3,661,690, 5-9-72, Cl. 161-39.
 Tarantola, Michele. Device for firing practice against a mobile target. 3,633,912, 1-11-72, Cl. 273-105.2.
 Tarantsev, Boris Ivanovich: *See—*

Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov Nikolai Nikolaevich; Purnalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitriy Nikolaevich; Eliseev Dmitry Stepanovich; Vodolagin, Aleksei Ivanovich; Zurovsky, Arnold Yanovich; and Rits, Leonid Borisovich, 3,683,683.
 Tarasevich, Michael: *See—*
 Cohen, Murray F.; and Tarasevich, Michael, 3,699,334.
 Tarasov, Vasily Mikhailovich: *See—*
 Chaikin, Boris Semenovich; Kozlov, Lev Ivanovich; Oblasti, Khimki Moskovskoi; Malchenko, Thomas Vasilievich; Mokrushin, Konstantin Dmitrievich; Yarovsky, Lev Volfovich; Maryanchik, Grigory Efimovich; Zhelnov, Boris Stepanovich; Tarasov, Vasily Mikhailovich Trubetskoy, Kirill Mikhailovich; Borshevsky, Igor Konstantinovich; and Chermensky, Dmitry Pavlovich, 3,697,058.
 Tarassoff, Peter: *See—*
 Themelis, Nickolas J.; and Tarassoff, Peter, 3,700,431.
 Tarassov, Victor John: *See—*
 Lumley, Robert Miller; and Tarassov, Victor John, 3,700,850.
 Tarbell, Harlan E.; Mogg, Donald W.; and Shea, Frederick L., to Grefco, Inc. Roof insulation adhesive. 3,644,240, 2-22-72, Cl. 260-4.
 Tarbet, Cecil Sidney Charles, to Cecil Instruments Limited. Stepping device for rotating the table of a sample changing equipment. 3,686,960, 8-29-72, Cl. 74-1.500.
 Tarbet, Cecil Sidney Charles, to Cecil Instruments Limited. Carrier for an individual sample cell. 3,692,416, 9-19-72, Cl. 356-244.000.
 Tarbouriech, Philippe: *See—*
 Roget, Jean; and Tarbouriech, Philippe, 3,642,452.
 Tarbox, Gary L.: *See—*
 Gordon, David R.; and Tarbox, Gary L., 3,667,030.
 Tarbox, John W.; Hinds, Walter E.; and Castro, Rodolfo, to Hughes Aircraft Company. System for ordered dispensing of wire and the like. 3,699,630, 10-24-72, Cl. 29-203.0mw.
 Tarcici, Adnan S. Solar heating devices. 3,643,648, 2-22-72, Cl. 126-270.
 Tardiff, Armand L.: *See—*
 Rockwell, Adelbert W., Jr.; Herdeg, Donald F.; and Tardiff, Armand L., 3,641,651.
 Tardos, Laszlo: *See—*
 Csaszar, Janos; Nizsalovszky, Laszlo; and Tardos, Laszlo, 3,652,582.
 Harsanyi, Kalman; Reiter, Jozsef; Korbonits, Dezso; Goncz, Csaba; Takacs, Kalman; Bako, Erzebet; Leszkovszky, Gyorgy; Tardos, Laszlo; and Vertesy, Csaba, 3,647,809.
 Harsanyi, Kalman; Takacs, Kalman; Relle, Zsuzsa, nee Somfai; Milak, Eva, nee Krompecher; Tardos, Laszlo; Korbonits, Dezso; Kiss, Pal; and Gonczy, Csaba, 3,673,188.
 Tardoskegyi, Louis V., to Electrovert Manufacturing Co., Ltd. Wave soldering using inert gas to protect pretinned and soldered surfaces of relatively flat workpieces. 3,705,457, 12-12-72, Cl. 29-494.000.
 Tarducci, Tullio; Gatti, Alvaro; and Buffa, Antonio. Folding bags to be used in shopping having collapsible wheels, and capable to be reduced to a hand-bag. 3,701,541, 10-31-72, Cl. 280-37.000.
 Tarhan, Mehmet Orhan, to Bethlehem Steel Corporation. Methanol synthesis. 3,689,575, 9-5-72, Cl. 260-632.00r.
 Tarkan, Stuart E.: *See—*
 Prill, Arnold L.; and Tarkan, Stuart E., 3,674,575.
 Tarman, Paul B.: *See—*
 Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B., 3,700,421.
 Johnson, James L.; Schora, Frank C., Jr.; and Tarman, Paul B., 3,700,422.
 Tarmann, Bruno; and Vonbank, Heinrich, to Gebr. Bohler & Co. Aktiengesellschaft, Firma. Apparatus for manufacturing stretch-formed products of high-melting metals. 3,650,314, 3-21-72, Cl. 164-270.
 Tarmann, Bruno; and Vonbank, Heinrich, to Gebr. Bohler & Co. Aktiengesellschaft. Improvements in or relating to processes of manufacturing rolled stock from products of continuous casting processes. 3,680,623, 8-1-72, Cl. 164-76.000.
 Tarnblom, Stig-Goran Harry: *See—*
 Hallstrom, Ingemar Gustaf Terje; Jarleborg, Martin Holger; and Tarnblom, Stig-Goran Harry, 3,674,570.
 Tarneja, Krishan S.; Rossi, Vito A.; and McNally, James B., to Westinghouse Electric Corporation. Phosphorus diffusion technique. 3,666,574, 5-30-72, Cl. 148-188.
 Tarney, Robert Edward; and Verbanc, John J., to Du Pont de Nemours, E. I., and Company. Synthetic hydrocarbon elastomers having improved building tack. 3,657,203, 4-18-72, Cl. 260-5.
 Tarnoff, Sherwin S., to Air Balance, Inc., mesne. Combined ventilating louver and back draft damper. 3,682,084, 8-8-72, Cl. 98-110.000.

Tarnopol, Milton S.; and Snyder, Thomas P., to PPG Industries, Inc. Applying electroconductive heating circuits to glass. 3,671,311, 6-20-72, Cl. 117-211.000.
 Tarnopol, Milton S.; and Snyder, Thomas P., to PPG Industries, Inc. Applying electroconductive heating circuits to glass electroplating. 3,703,445, 11-21-72, Cl. 204-15.000.
 Tarr, William A., to Sarkes Tarzian, Inc. Linear sawtooth scan generator utilizing negative feedback and Miller integration. 3,646,393, 2-29-72, Cl. 315-27.
 Tarrant, Fred K.: *See—*
 Murray, Gregory J.; and Tarrant, Fred K., 3,675,266.
 Tarrant, Fred K., Jr.: *See—*
 Murray, Gregory J.; and Tarrant, Fred K., Jr., 3,676,891.
 Tarrant, James R.: *See—*
 Hahn, Richard L.; Stone, Roland L.; Tarrant, James R.; and Hunt, Lee D., 3,675,072.
 Tarrant Manufacturing Company: *See—*
 Murray, Gregory J.; and Tarrant, Fred K., 3,675,266.
 Murray, Gregory J.; and Tarrant, Fred K., Jr., 3,676,891.
 Tarry, Robert James; Kriellaars, Johannes C.; and Lord, Ronald D., to Cae Industries Ltd. Capacitive moisture measurement. 3,681,685, 8-1-72, Cl. 324-61.000.
 Tarshis, Lemuel A.; and Walker, James L., to General Electric Company. Grain size of metal castings. 3,690,874, 9-12-72, Cl. 75-170.000.
 Tarshis, Lemuel A.; Walker, James L.; and Berry, Thomas F., to General Electric Company. Superalloy segregate braze. 3,696,500, 10-10-72, Cl. 29-487.000.
 Tartaglia, John. Tailpiece for stringed musical instruments. 3,688,630, 9-5-72, Cl. 84-302.000.
 Tartakoff, Alexander: *See—*
 Audesse, Emery G.; Griffin, Robert M.; Tartakoff, Alexander; and Gutta, John J., 3,641,386.
 Tartakovsky, Boris Nusimovich: *See—*
 Dunaevsky, Iuliy Nekhemievich; Tartakovsky, Boris Nusimovich; Zhukov, Nikolai Arsentievich; and Potapenko, Viktor Viktorovich, 3,689,090.
 Tartan Corporation: *See—*
 Acton, Hugh C.; and Fink, Roy W., 3,695,693.
 Mohr, Robert G., 3,695,694.
 Tartan Industries, Inc.: *See—*
 Foster, James L., Jr., 3,672,455.
 Tarter, Carl M., to T & W Manufacturing Corporation. Spark plug hole construction and method. 3,683,873, 8-15-72, Cl. 123-41.820.
 Tartter, Arnold; Luebecke, Enno; and Belde, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Green pigment dyes of the phthalocyanine series. 3,649,642, 3-14-72, Cl. 260-314.5.
 Tartter, Arnold; Riedel, Guenter; and Nold, Eberhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dye nitrates. 3,682,979, 8-8-72, Cl. 260-393.000.
 Tarui, Yasuo: *See—*
 Hayashi, Yutaka; and Tarui, Yasuo, 3,690,966.
 Tarulli, Luigi. Reciprocating pump for concrete. 3,704,967, 12-5-72, Cl. 417-519.000.
 Tarusawa, Yasutaka, to Kabushika Kaisha Suwa Seikosha. Lockable crown for waterproof watch. 3,686,883, 8-29-72, Cl. 58-90.00b.
 Tarver, Fred E.: *See—*
 Morgan, Robert A.; and Tarver, Fred E., 3,687,035.
 Tarzi, Clement A.: *See—*
 Bethune, John H.; Tarzi, Clement A.; Bolton, Michael R.; and Rainville, Joseph R., 3,632,718.
 Tarzwell, Robert K.: *See—*
 Stafford, Owen L.; and Tarzwell, Robert K., 3,669,914.
 Tasaki, Toshio; and Fukao, Keiji, to Olympus Optical Co., Ltd. Stereo-microscope with illumination by specularly reflected light. 3,637,283, 1-25-72, Cl. 350-91.
 Taschenberg, Ernest J., to Koppers Company, Inc. Hydrodynamic lift-type face seal. 3,640,541, 2-8-72, Cl. 277-96.
 Tascher, Edward R.; and Koenig, Elmer A., to Sherwood Medical Industries Inc. Syringe filling apparatus. 3,662,517, 5-16-72, Cl. 53-282.
 Tasco Engineering & Supply, Inc.: *See—*
 Samartina; Anthony John, 3,684,319.
 Tasfi, Laszlo: *See—*
 Abraham, Andre; and Tasfi, Laszlo, 3,682,313.
 Tashiro, Chiaki: *See—*
 Nakanishi, Michio; and Tashiro, Chiaki, 3,637,713.
 Nakanishi, Michio; and Tashiro, Chiaki, 3,668,210.
 Tashiro, Hiroji; and Yamaguchi, Tutomu, to Toka Shikiso Chemical Industry Co., Ltd. Epoxy resin curing agent. 3,704,229, 11-28-72, Cl. 252-182.000.
 Tashiro, Isao: *See—*
 Endo, Katutoshi; and Tashiro, Isao, 3,658,522.
 Tashiro, Kenichi; and Tanaka, Hirokazu, to Stanley Denki Kabushiki Kaisha. Light responsive and measuring device. 3,680,024, 7-25-72, Cl. 338-17.000.
 Tashiro, Kijuro; and Yokoyama, Masuzo, to Mitsubishi Petrochemical Co., Ltd. Catalytic production of olefin polymers. 3,676,418, 7-11-72, Cl. 260-88.200.
 Tashiro, Kiroku: *See—*
 Okazaki, Takayoshi; Tashiro, Kiroku; and Yanagida, Koichiro, 3,671,376.
 Tashiro, Susumu: *See—*
 Nakajima, Tohru; Tashiro, Susumu; Tsukatani, Kenmi; and Mori, Koichi, 3,645,180.
 Tashjian, Harry J.: *See—*
 Bean, Donald E.; Engh, James T.; Hammer, James R.; Schettl, Myron D.; Tashjian, Harry J.; Ullmer, Richard J.; and Kerr, John W., 3,642,197.
 Tasker Industries, Inc.: *See—*
 Hanby, Fredrick E., 3,681,711.
 Tasman Vaccine Laboratory Limited: *See—*
 Grant, Roy Arthur, 3,697,419.
 Tasope' Limited: *See—*
 Hillhouse, Charles R., 3,689,333.
 Tassell, Donald E.; and Middleton, Forest L., to Lescoa, Inc. Bushing. 3,702,718, 11-14-72, Cl. 308-72.000.
 Tassell, Kitchener B. Syringe. 3,662,753, 5-16-72, Cl. 128-218.00m.
 Tassie, Douglas P.: *See—*
 Ashley, Eugene; Tassie, Douglas P.; and Seemann, James M., 3,698,283.
 Ashley, Eugene; Tassie, Douglas P.; and Seemann, James M., 3,706,259.
 Tassoff, James: *See—*
 Fox, Charles; and Tassoff, James, 3,689,678.
 Tassone, George A.: *See—*
 Pitti, Joseph J.; and Tassone, George A., 3,667,070.
 Tassoney, Joseph P.: *See—*
 Robin, Allen M.; and Tassoney, Joseph P., 3,652,454.
 Tata, Raymond V.: *See—*
 Brouwer, Charles W.; Bucheister, Henry C.; and Tata, Raymond V., 3,700,051.
 Tatakin, Alexandr Nikolaevich: *See—*
 Strelets, Khaim Lipovich; Chesnokov, Alexandr Sergeevich; Devyatkin, Vladimir Nikolaevich; Tatakin, Alexandr Nikolaevich; Krasikov, Evsei Dmitrievich; Leonova, Ljudmila Sergeevna; Medvetskaya, Galina Arkadiyevna; and Nechaeva, Tatyana Georgievna, 3,676,323.
 Tatar, Frank J., to Comon Tatar Inc. Puzzle postcard. 3,677,399, 7-18-72, Cl. 206-46.0am.
 Tataru, Kazuo: *See—*
 Hori, Shin; Inoue, Tomiyoshi; Yamamoto, Shozo; Tataru, Kazuo; Kitagawa, Mashiro; Watanabe, Masaru; Okada, Yukihiko; and Negishi, Naoki, 3,686,832.
 Tataru, Seizo; and Ohdachi, Yoshio. Car washing device. 3,693,206, 9-26-72, Cl. 15-21.00d.
 Tatchell, John J., to Morganite Research & Development Limited. Manufacture of carbon filaments. 3,663,170, 5-16-72, Cl. 23-209.4.
 Tatchell, Keith Reid: *See—*
 Lee, Edward William; Tatchell, Keith Reid; Challis, Kenneth John; and Cockerton, Kenneth Archibald, 3,701,680.
 Tate & Lyle Limited: *See—*
 Bennett, Michael Camm; and Gardiner, Sidney David, 3,669,620.
 Bennett, Michael Camm, 3,698,951.
 Tate, Bryce E.; and Allingham, Robert P., to Pfizer Inc. Method and compositions for inhibiting microbial growth. 3,644,635, 2-22-72, Cl. 424-283.
 Tate, Bryce E.; and Berg, Rudolph G., to Pfizer Inc. Iminodisuccinic acid salts as detergent builders. 3,697,453, 10-10-72, Cl. 252-546.000.
 Tate, Charles G., Jr., to Tate Manufacturing Company. Monument construction. 3,648,422, 3-14-72, Cl. 52-104.
 Tate, David P.: *See—*
 Webb, Frederick J.; and Tate, David P., 3,647,774.
 Tate, Gary L.; Summers, John J.; and Kramer, Joseph O., to Hamilton of Indiana, Inc. Means to sense and control speed of movement of glass sheet on gas support bed. 3,634,057, 1-11-72, Cl. 65-163.
 Tate, George W., Jr.: *See—*
 Lynn, John R.; and Tate, George W., Jr., 3,705,003.
 Tate, Jack F.: *See—*
 Sample, Thomas E., Jr.; and Tate, Jack F., 3,689,319.
 Sample, Thomas E., Jr.; and Tate, Jack F., 3,693,719.
 Tate, Jack F., to Texaco Inc. Method of and composition for the prevention of scale. 3,682,831, 8-8-72, Cl. 252-180.000.
 Tate, Jack F., to Texaco Inc. Method for stimulating well production. 3,704,751, 12-5-72, Cl. 166-307.000.
 Tate, John E.; Borenstein, David E.; Langley, Isaac L., Jr.; and Banning, Jack A., to Phillips Fibers Corporation. Plug metered evaporative reaction tube. 3,684,459, 8-15-72, Cl. 23-285.000.
 Tate, Lawrence A., to International Business Machines Corporation. Read gating circuit for core sensing. 3,670,314, 6-13-72, Cl. 340-174.
 Tate, Malcolm C.: *See—*
 Bradley, Chester D.; and Tate, Malcolm C., 3,646,854.
 Tate Manufacturing Company: *See—*
 Tate, Charles G., Jr., 3,648,422.

- Tate, Roger W.; and Wilcox, Richard L., to Delavan Manufacturing Company. Eccentric spiral swirl chamber nozzle. 3,680,793, 8-1-72, Cl. 239-468.000.
- Tateishi, Mataji, to Mitsubishi Jukogyo Kabushiki Kaisha. Fuel injection pump construction. 3,695,784, 10-3-72, Cl. 417-296.000.
- Tateisi Electronics Co.: *See—*
- Yamamoto, Mititaka, 3,691,527.
- Tateisi, Kazuma; Mizuta, Yukio; and Shizuya, Kyoto, to Omron Tateisi Electronics Co. Automatic deposit receiving and cash dispensing system. 3,648,020, 3-7-72, Cl. 235-61.7.
- Tatekawa, Shozo: *See—*
- Nakamura, Toshio; Arai, Hidetoshi; Tatekawa, Shozo; and Kawai, Sadaharu, 3,663,077.
- Tatematsu, Kenzo; and Kaneko, Teruhisa, to Matsushita Electric Industrial Co., Ltd. Converter for changing alternating current into direct current. 3,646,423, 2-29-72, Cl. 321-14.
- Tatematsu, Kenzo; Hosono, Hiroo; Katagiri, Toshio; Hayashi, Yoshiaki; and Ando, Hiroyuki, to Matsushita Electric Industrial Co., Ltd. Automatic answering telephone set. 3,700,818, 10-24-72, Cl. 179-6.00r.
- Tatematu, Sinzi: *See—*
- Shimizu, Tetsuji; Sumida, Hajime; Ueno, Sinichi; Usami, Susumu; and Tatematu, Sinzi, 3,634,652.
- Tatemichi, Hidemaro: *See—*
- Tominaga, Yoshiitsu; Ogasawara, Takahisa; Tatemichi, Hidemaro; and Ito, Hiroo, 3,632,639.
- Tatemoto, Masayoshi: *See—*
- Kometani, Yutaka; Tatemoto, Masayoshi; Okuda, Masahiro; Okuno, Chuzo; Sakata, Shinsuke; Sakai, Shoji; and Oka, Masahiko, 3,642,754.
- Kometani, Yutaka; and Tatemoto, Masayoshi, 3,654,245.
- Kometani, Yutaka; Tatemoto, Masayoshi; and Nakamura, Masanori, 3,671,510.
- Tateno, Harunobu: *See—*
- Usuda, Shogo; Mizusasa, Susumu; and Tateno, Harunobu, 3,701,857.
- Tateno, Hideo; and Nemoto, Kuniharu, to Nippon Electric Company, Limited. Method of fabricating semiconductor devices having alloyed junctions. 3,671,339, 6-20-72, Cl. 148-179.000.
- Tateno, Hiroshi: *See—*
- Kataoka, Shoji; Tateno, Hiroshi; Fujisada, Hiroyuki; Kawashima, Mitsuo; Komamiya, Yasuo; and Yamada, Hideo, 3,691,481.
- Tates, Hans Gerard Karel: *See—*
- Daniels, Hendricus Petrus Cornelis; Van Der Ven, Theodorus Johannes; and Tates, Hans Gerard Karel, 3,670,394.
- Tatiano, Nikolai Vasilievich; Tsybal, Alexandr Gavrilovich; Stetsenko, Vladimir Vasilievich; Isikov, Sergei Alexandrovich; Rodenko, Fedor Leontievich; Betcher, Alexandr Samuilovich; Shamrai, Petr Dmitrievich; Dulya, Mikhail Afanasievich; Dudka, Viktor Vailievich; Klimchuk, Ivan Petrovich; and Dolgov, Anatoly Mikhailovich. Agricultural self-propelled harvesting machine. 3,664,431, 5-23-72, Cl. 171-58.
- Tatina, Richard A.: *See—*
- Broling, Keith W.; and Tatina, Richard A., 3,650,222.
- Tatje, Joachim, to ELTA Vertriebs-GmbH Tatje & Co. K.G. Illuminating spectacles for working in the dark. 3,683,168, 8-8-72, Cl. 240-2.0me.
- Tatobayai Szenbanyak: *See—*
- Abraham, Andre; and Tasfi, Laszlo, 3,682,313.
- Tatom, John W.: *See—*
- Searle, Norman; and Tatom, John W., 3,640,468.
- Tatro, Henry J., Jr.: *See—*
- Curtis, George F.; and Tatro, Henry J., Jr., 3,688,641.
- Tatsukawa, Keizo: *See—*
- Fujimoto, Yasuo; Tatsukawa, Keizo; and Doiuchi, Toru, 3,635,909.
- Fujimoto, Yasuo; Tatsukawa, Keizo; and Koiwa, Yoichi, 3,637,727.
- Fujimoto, Yasuo; Tatsukawa, Keizo; Teranishi, Masayuki; and Koiwa, Yoichi, 3,658,831.
- Fujimoto, Yasuo; Nagaoka, Koichi; Tatsukawa, Keizo; and Koiwa, Yoichi, 3,671,482.
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- Miyauchi, Tsuneshige; Hirano, Jiro; Ueki, Atsufumi; Tatsumi, Ryuji; Mukai, Kunihiro; and Yoshikawa, Shogo, 3,655,259.
- Uchida, Teiji; Shogo, Washio; and Tatsumi, Ryuji, 3,634,777.
- Ueki, Atsufumi; and Tatsumi, Ryuji, 3,643,097.
- Tatsumi, Yasukazu: *See—*
- Maruchi, Katsumi; Yataka, Jiro; Tatsumi, Yasukazu; Wakita, Masayasu; and Yamayoshi, Tadashi, 3,662,299.
- Tatsuta Electric Wire & Cable Co., Ltd.: *See—*
- Hamaguchi, Hachiro; Sakashita, Misao; and Koyama, Mamoru, 3,644,115.
- Yasuda, Toshitaka; Katayama, Shiro; and Suzuki, Yutaka, 3,650,954.
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- Tatton, William, & Co. Limited: *See—*
- Jackson, Stewart C.; and Harrison, Arthur, 3,643,340.
- Tatu, William J.: *See—*
- Stewart, Walter N.; and Tatu, William J., 3,693,432.
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- Forrester, Harold C.; and Tatum, Harold E., 3,698,335.
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- Horlenko, Theodore; and Tatum, Hopkins W., 3,652,545.
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- Putnam, David T.; and Tatum, William C., 3,647,582.
- Tatzel, Hermann: *See—*
- Gaeth, Rudolf; Pfannmueller, Helmut; Stastny, Fritz; Trieschmann, Hans-George; Tatzel, Hermann; and Zizlsperger, Johann, 3,632,532.
- Taub, Bernard: *See—*
- Hino, John Bernhard; and Taub, Bernard, 3,678,011.
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- Moritz, Karl-Ludwig; and Taube, Carl, 3,642,769.
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- Reust, Paul H.; and Taube, Donald R., 3,675,300.
- Taubenlat, Pierre W., to American Metal Climax, Inc. Iron powder infiltrant. 3,652,261, 3-28-72, Cl. 75-5.
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- Wegemund, Bernd; and Tauber, Gunter, 3,660,526.
- Tauber, Gunther: *See—*
- Kaiser, Gerhard; and Tauber, Gunther, 3,658,994.
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- Gerchenova, Nina Andreevna; Gurvich, Lev Moiseevich; Zelen-skaya, Olga Ivanovna; Koretsky, Alexandr Filippovich; Machulsky, Petr Alexeevich; Nesterova, Maria Petrovna; Selifanova, Evdokia Prokofievna; Taubman, Arkady Borisovich; and Furaeva, Ekaterina, 3,68,099.
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- Taubner, Valentine J., Jr. Flexible, linked jewelry beads. 3,685,284, 8-22-72, Cl. 59-80.000.
- Tauchi, Shoji: *See—*
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- Nishizawa, Jun-ichi; Sasaki, Ichimon; Ishida, Katsuhiko; Tauchi, Syoji; Ishimura, Takeshi; Seki, Takeo; and Kozuma, Noboru, 3,634,849.
- Taudien, Alfred: *See—*
- Golda, Eugene; and Taudien, Alfred, 3,669,660.
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- Tauern, Dankmar: *See—*
- Gstohl, Norbert; and Tauern, Dankmar, 3,701,879.
- Tauger, Mikhail Borisovich. Throttle divider of fluid medium flow. 3,674,047, 7-4-72, Cl. 137-101.000.
- Taul, Everett G., to Bush Manufacturing Company. Lumber sorter. 3,631,977, 1-4-72, Cl. 209-80.
- Taunus, Hofheim: *See—*
- von der Eltz, Hans-Ulrich; Birke, Walter; Kunze, Wolfgang; Taunus, Hofheim; and Schon, Franz, 3,679,349.
- Tausch, Gilbert H.: *See—*
- Watkins, Fred E.; and Tausch, Gilbert H., 3,672,397.
- Tauschek, Max J., to TRW Inc. Method of manufacturing hard faced exhaust valves. 3,649,380, 3-14-72, Cl. 148-142.
- Tauscher, Kenneth E.; Roome, Theodore F., Jr.; and Coon, David S., to Sanders Associates, Inc. Time domain modulator for spectrum shaping of pulsed waveforms. 3,699,449, 10-17-72, Cl. 325-324.000.
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- Tausky, Ilona. Process of improving the quality of fats obtained during rendering or refining. 3,649,656, 3-14-72, Cl. 260-412.7.
- Taut, Karl H. Modular, knock-down furniture. 3,672,739, 6-27-72, Cl. 312-107.000.
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- Beaman, Alden Gamaliel; Duschinsky, Robert; and Tautz, William Paul, 3,641,047.
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- Tavano, John B. Panic door. 3,660,940, 5-9-72, Cl. 49-366.
- Tavano, Joseph V., Sr. Safety construction for vehicles. 3,656,792, 4-18-72, Cl. 298-85.000.
- Tavazzani, Carlo: *See—*
- Severini, Febo; Valvassori, Alberto; and Tavazzani, Carlo, 3,676,528.
- Taverne, Jules L., to Deere & Company. Crop conditioner with baffle of fluff means. 3,680,290, 8-1-72, Cl. 56-1.000.
- Tavernier, Bernard Hippolyte; De Meyer, Alfons Jozef; and Vanheer-tum, Johannes Josephus, to Gevaert-Agfa N.V. Method of improving the color tone of a recording layer containing photoconductive lead (II) oxide. 3,642,470, 2-15-72, Cl. 96-1.5.
- Tavernier, Georges L. P.; and Dubois, Robert L., to Usinor. Roll for displacement of bar-like products. 3,693,779, 9-26-72, Cl. 198-41.000.
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- Tawara, Yoshiyuki: *See—*
- Toyoda, Masashi; and Tawara, Yoshiyuki, 3,661,939.
- Tawfik, David A.: *See—*
- James, Robert L.; and Tawfik, David A., 3,633,004.
- Tawfik, David A.; Talish, Roger J.; and Yurasek, John F., to Bendix Corporation, The. Range system. 3,650,628, 3-21-72, Cl. 356-4.
- Tax, Barbara. Method of isolating antigens and/or antibodies from protein mixtures. 3,639,559, 2-1-72, Cl. 424-12.
- Tax, Hans: *See—*
- Tax, Hans; and Franke, Rudiger (said Franke assor. to said), 3,669,206.
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- Taxil, Andre Marc Victorin: *See—*
- Boucher, Raymond Claude Emile; Otto, Jean-Louis Marie; and Taxil, Andre Marc Victorin, 3,634,717.
- Taylor, Alastair Charles, to Otis Elevator Company. Handrail driving assembly for belt type moving passenger conveyors. 3,653,484, 4-4-72, Cl. 198-16.
- Taylor, Alfred E. Flexible molding strip and method of making same. 3,706,173, 12-19-72, Cl. 52-716.000.
- Taylor, Allen R., to Singer Company, The, mesne. Antenna. 3,665,476, 5-23-72, Cl. 343-701.000.
- Taylor, Arthur Sinclair; and Sandhage, Ellsworth Roland, to Perry Industries, Inc., mesne. Powder filling machine and method. 3,656,517, 4-18-72, Cl. 141-1.
- Taylor, Arthur Sinclair; Sandhage, Ellsworth; Bott, George; and Konazewski, William, to American Cyanamid Company. Sterile container filling mechanism. 3,698,450, 10-17-72, Cl. 141-85.000.
- Taylor, Beverly W., to Steven Manufacturing Co. Bingo marking board. 3,689,072, 9-5-72, Cl. 273-135.0bc.
- Taylor, Billy W. Resealable test tube. 3,705,018, 12-5-72, Cl. 23-292.000.
- Taylor, Brian; and Parry, Philip James, to International Nickel Company, Inc., The. Heat treatment of high chromium alloys to improve ductility. 3,640,777, 2-8-72, Cl. 148-13.
- Taylor, Brian Leslie: *See—*
- Causser, Roy; Farren, John; Jones, Terence Leslie; Taylor, Brian Leslie; and Webster, Ronald Kerry, 3,698,819.
- Taylor, Brian William: *See—*
- Drinkard, William C., Jr.; and Taylor, Brian William, 3,694,485.
- Taylor, Carl C., to Rochester Gauges, Inc. Liquid level gauge and valve. 3,688,795, 9-5-72, Cl. 137-558.000.
- Taylor, Carl S.: *See—*
- DeCardi, Pedro; Taylor, Carl S.; and Roberts, Geoffrey L., 3,680,885.
- Taylor, Cecil I., to Hartridge, Leslie, Limited. Machine for machining internal surfaces of workpieces. 3,686,797, 8-29-72, Cl. 51-34.00r.
- Taylor, Cecil Isaac. Rotary tool drive member. 3,692,319, 9-19-72, Cl. 279-1.00c.
- Taylor, Cecil R. Putting practice device. 3,690,674, 9-12-72, Cl. 273-176.00g.
- Taylor, Charles F., to Vermont Technical Group, Inc. Analog converter and computer circuit producing optimized pulse output. 3,659,288, 4-25-72, Cl. 340-347.
- Taylor, Chester E.: *See—*
- Harris, Daniel M.; Moore, Jack E.; Taylor, Chester E.; and Walczyk, Walter H., 3,643,278.
- Taylor, Clarence R.: *See—*
- Knowles, Frederick G.; and Taylor, Clarence R., 3,672,593.
- Knowles, Frederick G.; and Taylor, Clarence R., 3,677,487.
- Knowles, Frederick G.; and Taylor, Clarence R., 3,679,298.
- Taylor, Clarence R. Safety closure for a container. 3,656,646, 4-18-72, Cl. 215-9.
- Taylor, Clarence Reynold, to Eastman Kodak Company. Apparatus for cleaning a residual image from a photosensitive member. 3,706,108, 12-19-72, Cl. 15-1.500.
- Taylor, Clement R.: *See—*
- Ehrensing, Alvin T.; and Taylor, Clement R., 3,678,890.
- Taylor, Clinton A., to General Motors Corporation. Bearing seal assembly. 3,658,396, 4-25-72, Cl. 308-187.2.
- Taylor, Clyde L. Agricultural apparatus for shaped beds. 3,661,213, 5-9-72, Cl. 172-72.
- Taylor, David John, to Sykes-Pickavant Limited. Pressure testing device. 3,680,361, 8-1-72, Cl. 73-49.200.
- Taylor, David Johnston: *See—*
- Foster, Coleman Arthur; and Taylor, David Johnston, 3,661,666.
- Taylor, David Robin: *See—*
- Haseldine, Robert Neville; Banks, Ronald Eric; and Taylor, David Robin, 3,658,924.

- Taylor, David Shaw: *See*—
Swithenbank, Joshua; and Taylor, David Shaw, 3,631,873.
- Taylor Diving & Salvage Co., Inc.: *See*—
Banjavich, Mark P.; Morrissey, George R.; and Gaudiano, Anthony V., 3,641,777.
- Lorenzo, Leroy N.; and Banjavich, Mark P., 3,644,706.
- Taylor, Donald: *See*—
Oliver, Keith H.; and Taylor, Donald, 3,694,989.
- Taylor, Donald F., Jr., to Otis Engineering Corporation. Well flow control valves and well systems utilizing the same. 3,696,868, 10-10-72, Cl. 166-315.000.
- Taylor, Earl Richard, Jr., to Du Pont de Nemours, E. I., and Company. Removal of dissolved organic lead from aqueous alkyl lead process effluents. 3,697,567, 10-10-72, Cl. 260-437.00r.
- Taylor, Edward B.: *See*—
Holt, Thomas E.; and Taylor, Edward B., 3,677,850.
- Taylor, Edward C.; and McKillop, Alexander. Aromatic bromination process. 3,689,559, 9-5-72, Cl. 260-562.00r.
- Taylor, Elmer N., to Hughes Aircraft Company. Noise suppressor for surveillance and intrusion detecting system. 3,641,257, 2-8-72, Cl. 178-6.8.
- Taylor, Eugene D.: *See*—
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- Taylor, Floyd R.; and Whitaker, Robert B. Electrically operated bingo game apparatus. 3,671,041, 6-20-72, Cl. 273-135.00a.
- Taylor, Francis M., to Systems Research Laboratories, Inc. Vortex tube laser. 3,646,475, 2-29-72, Cl. 331-94.5.
- Taylor, Francis R.: *See*—
Lane, George A.; Smith, William Arthur; Dollman, Stephen C.; Kaye, Seymour M.; and Taylor, Francis R., 3,673,013.
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- Taylor, Frank. Decorative wall facing. 3,701,228, 10-31-72, Cl. 52-309.000.
- Taylor, Frank F.: *See*—
Downing, Randall W.; Nowak, John S.; Taylor, Frank F.; and Ulrich, Werner, 3,651,480.
- Taylor, Frank H.; and Kelly, Warner M., to Otis Engineering Corporation. Safety valve system for gas lift wells. 3,642,070, 2-15-72, Cl. 166-314.
- Taylor, Frederick A. Motor driven ice vehicle. 3,669,201, 6-13-72, Cl. 180-6.00r.
- Taylor, Frederick M., to Boeing Company, The. V/STOL aircraft with variable tilt wing. 3,666,209, 5-30-72, Cl. 244-7.00c.
- Taylor, Fredrick J., to Texas Instruments, Incorporated. Synthesized cascaded processor system. 3,700,866, 10-24-72, Cl. 235-150.100.
- Taylor, Fredrick James; and Choate, William C., to Texas Instruments, Incorporated. Trainable entropy system. 3,702,986, 11-14-72, Cl. 340-172.500.
- Taylor Garage Doors, Inc.: *See*—
Kempel, John J., 3,690,037.
- Taylor, Geoffrey Gordon, to Fruitgrowers Chemical Company Limited. Granules comprising inert cores coated with an absorbent powder. 3,672,945, 6-27-72, Cl. 117-100.00b.
- Taylor, George F. Food processing apparatus. 3,695,273, 10-3-72, Cl. 130-30.00g.
- Taylor, George G. Trading stamp invalidating apparatus and method of using. 3,702,920, 11-14-72, Cl. 219-406.000.
- Taylor, George William: *See*—
Braun, Edwin Julius; Maxon, Rodney Robert; Meise, Henry August, Jr.; Taylor, George William; and Witmore, Ronald Kirk, 3,679,834.
- Taylor, George William, to RCA Corporation. Light modulator and display device. 3,703,332, 11-21-72, Cl. 350-160.00r.
- Taylor, George Wright; and Wood, Derek Harold, to Imperial Chemical Industries Limited. Alkyl diesters of 3,5-dialkyl-4-hydroxyphenylalkanoic acid. 3,639,447, 2-1-72, Cl. 260-473.
- Taylor, Glen A., to Reynolds Metals Company. Method of soldering aluminum component. 3,633,266, 1-11-72, Cl. 29-488.
- Taylor, Glenn Edward. Vehicle transport. 3,690,717, 9-12-72, Cl. 296-1.00a.
- Taylor, Glenn L.; Cotton, John W.; and Winkler, De Loss E., to Shell Oil Company. Blend of block copolymer, one of which is epoxidized. 3,699,184, 10-17-72, Cl. 260-836.000.
- Taylor, Glenn N., to Kendall Company, The. Catheter with valved fluid reservoir. 3,675,658, 7-11-72, Cl. 128-349.0bv.
- Taylor, Glenn N., to Kendall Company, The. Neck closing smock or gown. 3,689,939, 9-12-72, Cl. 2-114.000.
- Taylor, Glenn N., to Kendall Company, The. Smock or gown with adjustable belt. 3,696,443, 10-10-72, Cl. 2-114.000.
- Taylor, Guy A., to Sanford Research Company. Plug and barrel assembly for marking device. 3,659,953, 5-2-72, Cl. 401-198.000.
- Taylor, Guy A., to Sanford Research Company. Plastic container with threaded mouth strengthening closure means. 3,707,241, 12-26-72, Cl. 215-43.00a.
- Taylor, Harold L.: *See*—
Schrader, Carlton F.; Taylor, Harold L.; and Heitmann, William E., 3,687,145.
- Taylor, Harold M.: *See*—
Krumkalns, Eriks V.; and Taylor, Harold M., 3,655,359.
- Porter, Herschel D.; and Taylor, Harold M., 3,659,012.
- Taylor, Harold V., 50% to Taylor, Ruth E. Substitute smoking article dispensing oxygen to provide a physiological lift. 3,631,856, 1-4-72, Cl. 128-208.
- Taylor, Harry L.: *See*—
Dodgen, John N.; and Taylor, Harry L., 3,656,798.
- Dodgen, John N.; and Taylor, Harry L., 3,659,894.
- Taylor, Henry A.; and Sterner, Maurice E., Jr., to Dinsmore, D. J., Co. Readily removable window with weather-stripping. 3,676,956, 7-18-72, Cl. 49-446.000.
- Taylor, Henry F.: *See*—
Geller, Myer; Altman, Daniel E.; De Temple, Thomas A.; and Taylor, Henry F., 3,654,626.
- Taylor, Hugh Gordon: *See*—
Marshall, Alec Frank; and Taylor, Hugh Gordon, 3,659,985.
- Marshall, Alec Frank; and Taylor, Hugh Gordon, 3,664,785.
- Taylor Industries, Inc.: *See*—
Taylor, Philip W., 3,695,499.
- Taylor, Jack G.; and Gallo, Mario S., to Globe Illumination Company. Lighting fixtures. 3,681,596, 8-1-72, Cl. 240-147.000.
- Taylor, Jack R.: *See*—
Keiter, Robert W.; and Taylor, Jack R., 3,631,675.
- Taylor, Jack R., to General Electric Company. Folded flow combustion chamber for a gas turbine engine. 3,631,674, 1-4-72, Cl. 60-39.36.
- Taylor, Jack R., to General Electric Company. Fuel delivery apparatus. 3,667,221, 6-6-72, Cl. 60-39.74r.
- Taylor, Jack William: *See*—
Sanders, Kenneth Douglas; Botley, Geoffrey Sword; and Taylor, Jack William, 3,705,507.
- Taylor, James A.: *See*—
Miller, Leo A.; Taylor, James A.; and Willard, Thomas M., 3,649,182.
- Schneider, Raymond T.; Taylor, James A.; and Willis, William D., 3,653,812.
- Taylor, James H., Jr.: *See*—
Cahn, Robert P.; DeFeo, Richard J.; and Taylor, James H., Jr., 3,637,888.
- Taylor, James R. A.; and Chambers, William A., to Continental Can Company, Inc. Method and apparatus for electrostatically charging particles for printing or coating. 3,635,157, 1-18-72, Cl. 101-114.
- Taylor, James W., to United States of America, Navy. Pressure balanced electrical assembly. 3,633,155, 1-4-72, Cl. 339-117.
- Taylor, Jerry H.: *See*—
Gosnell, Earl J.; and Taylor, Jerry H., 3,675,572.
- Taylor, John B. M., to TRW Inc. Turbine blade. 3,695,778, 10-3-72, Cl. 416-92.000.
- Taylor, John D. Wire reeling device. 3,642,224, 2-15-72, Cl. 242-86.61.
- Taylor, John D. Portable windbreak. 3,648,980, 3-14-72, Cl. 256-12.5.
- Taylor, John H.: *See*—
Bould, Fred; and Taylor, John H., 3,662,133.
- Taylor, John H.; and Pellman, Robert C. Knot winder for tying fish hooks. 3,667,790, 6-6-72, Cl. 289-17.000.
- Taylor, John Harry; and Harris, Roger Stephen, to Electric & Musical Industries Limited. Frequency divider circuits. 3,644,834, 2-22-72, Cl. 328-46.
- Taylor, John R. Fishing rod mount. 3,655,155, 4-11-72, Cl. 248-38.000.
- Taylor, John W., Jr., to United States of America, Air Force. Digital motion compensation system for radar. 3,706,989, 12-19-72, Cl. 343-7.00a.
- Taylor, Joseph David Foulkes: *See*—
Phoenix, Lancelot; and Taylor, Joseph David Foulkes, 3,662,118.
- Taylor, Julian S. Flying shear. 3,677,119, 7-18-72, Cl. 83-316.000.
- Taylor, Keith Andrew: *See*—
Dunning, Robert William; Taylor, Keith Andrew; and Walker, John, 3,642,935.
- Taylor, Keith Graham: *See*—
Flinders, Michael; Gardner, Peter Lycett; Hallett, Michael Henry; Jones, John W.; Minshall, John Francis; and Taylor, Keith Graham, 3,646,516.
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Lawhon, Charles P.; Taylor, Kenneth O.; and Brock, Jerry A., 3,693,951.

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Hawkins, Arthur Ernest; and Taylor, Kenneth William, 3,634,561.
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- Taylor, Larry Christopher, to Pennwalt Corporation. Refrigerant recovery system. 3,699,781, 10-24-72, Cl. 62-474.000.
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Porter, William D.; and Taylor, Larry H., 3,690,579.
- Taylor, Larry H.; Porter, William D.; Anderson, William J.; and Caneer, Ralph A., to Northrop Carolina, Inc. Winding apparatus. 3,697,007, 10-10-72, Cl. 242-18.00d.
- Taylor, Laurence William; Town, Frank; and Omiotek, Emil, to Dobson, W. E. & F., Limited. Mine roof supporting means. 3,631,681, 1-4-72, Cl. 61-45.
- Taylor, Lawrence B.; Bentz, Raymond L.; and Porter, Robert B., to United States of America, Navy. Carbon monoxide burner for undersea habitats. 3,706,535, 12-19-72, Cl. 23-288.000.
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Varga, Otto Herman; and Taylor, Leonard, 3,653,591.
- Taylor, Leonard, to Smith & Wesson Pyrotechnics, Inc. Striker mechanism. 3,665,630, 5-30-72, Cl. 42-12.000.
- Taylor, Lewis A., to Enterprise Machine and Development Corporation. Yarn handling apparatus. 3,675,623, 7-11-72, Cl. 118-423.000.
- Taylor, Lloyd D.: *See*—
Grasshoff, J. Michael; and Taylor, Lloyd D., 3,674,478.
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- Taylor, Lloyd D., to Polaroid Corporation. Microscopic capsules and process of making same. 3,702,829, 11-14-72, Cl. 252-316.000.
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Schwartz, Jerome; and Szatkowski, Ryszard, 3,657,908.
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- Taylor, Lockhart: *See*—
Shepherd, Alexander Turnbull; Smith, Laurence Philip; and Taylor, Lockhart, 3,648,030.
- Taylor, Louis Dale. Apparatus for transporting heavy objects. 3,655,218, 4-11-72, Cl. 280-179.
- Taylor, Lowell M. Teaching aid. 3,654,711, 4-11-72, Cl. 35-66.
- Taylor, Lytton: *See*—
Brouchu, Rene Robert; and Taylor, Lytton, 3,697,353.
- Taylor Machine Works: *See*—
Snelling, Murdock M., Jr.; and Estes, Clancy E., 3,633,777.
- Taylor Manufacturing Company: *See*—
Chalich, Charles, 3,669,241.
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Colchester, John Edward; Carey, John Gerard; and Taylor, Michael David, 3,674,797.
- Taylor, Michael P., to Fiber Industries, Inc. Flange false twist textured nylon. 3,695,026, 10-3-72, Cl. 57-140.00r.
- Taylor, Miller; and Davis, Dewey R. Fairway tool bar cutter. 3,643,747, 2-22-72, Cl. 172-657.
- Taylor, Monroe F., to Grace, W. R., & Co. Device for continuously sealing and severing edges of folded film. 3,660,205, 5-2-72, Cl. 156-515.000.
- Taylor, Monroe F., to Grace, W. R., & Co. Sleeve wrapped package with a base. 3,675,767, 7-11-72, Cl. 206-65.00s.
- Taylor, Norman J.; Mann, Joseph K.; and Atwood, Allen W., to Varian Associates. Charged particle analyzer with means to determine the coordinate position of the sample. 3,686,501, 8-22-72, Cl. 250-49.5ae.
- Taylor, Otis C., to Dow Chemical Company, The. Drying chlorine. 3,655,342, 4-11-72, Cl. 23-219.
- Taylor, Paul A.; and Boissevain, Thomas A., to Alden Self-Transit Systems Corporation. Transportation system. 3,643,601, 2-22-72, Cl. 104-88.
- Taylor, Paul H. Fluid amplified liquid spring shocks and/or shock absorbers. 3,698,521, 10-17-72, Cl. 188-306.000.
- Taylor, Percy Ronald, to Monsanto Chemicals Limited. Process for coating ceramic molds. 3,645,767, 2-29-72, Cl. 117-5.1.
- Taylor, Peter J., to Plessey Company Limited, The. Backing pumps more particularly for volatile liquids. 3,632,219, 1-4-72, Cl. 415-72.
- Taylor, Philip W., to Taylor Industries, Inc. Fastener installation. 3,695,499, 10-3-72, Cl. 227-52.000.
- Taylor, Randolph G., to United States of America, Navy. Extreme ultraviolet radiation photometers. 3,638,059, 1-25-72, Cl. 313-93.
- Taylor, Ray D.: *See*—
Sraill, Raymond C.; and Taylor, Ray D., 3,692,719.
- Taylor, Rene A., to United States Steel Corporation. Sheet piling connectors. 3,688,508, 9-5-72, Cl. 61-62.000.
- Taylor, Richard Francis, to Anglo-Transvaal Consolidated Investment Company Limited. Rotary impact rock breaking equipment. 3,695,724, 10-3-72, Cl. 299-69.000.
- Taylor, Richard John: *See*—
Bacteman, Hans Ulrich; and Taylor, Richard John, 3,691,595.
- Taylor, Richard John, to Electric & Musical Industries Limited. Automatic signal registration in colour television cameras. 3,705,839, 12-12-72, Cl. 178-5.40m.
- Taylor, Richard P., to Mead Corporation, The. Fabrication of orifices. 3,655,530, 4-11-72, Cl. 204-26.
- Taylor, Richard R.; and MacKay, Frank A., to United States of America, Navy. Oscillograph recorder trace blanker apparatus. 3,702,002, 10-31-72, Cl. 346-109.000.
- Taylor, Robert B., to Metropolitan Industries, Inc. Panel lift clamp assembly. 3,679,254, 7-25-72, Cl. 294-81.00r.
- Taylor, Robert E.: *See*—
Layman, Harry D.; and Taylor, Robert E., 3,655,576.
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- Taylor, Robert L.: *See*—
Naschke, John H.; and Taylor, Robert L., 3,644,091.
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- Taylor, Robert S., to Hexcel Corporation. Corrosion inhibition using N-aminoalkyl phthalamides. 3,704,090, 11-28-72, Cl. 21-2.700.
- Taylor, Robert Vincent; and Downs, Elizabeth. Air cushion vehicle. 3,662,852, 5-16-72, Cl. 180-117.000.
- Taylor, Robert W.; and Sellers, Jerry W., to Rockwell Manufacturing Company. Power driven hand tool. 3,699,655, 10-24-72, Cl. 30-216.000.
- Taylor, Roland C. Delay equalizer network including negative delay circuits. 3,673,520, 6-27-72, Cl. 333-28.00r.
- Taylor, Ronald B.; and Boardman, Kerin G., to Liquid Nitrogen Processing Corporation. Free-flowing tetrafluoroethylene polymer composition and process of producing the same. 3,682,859, 8-8-72, Cl. 260-41.0ag.
- Taylor, Ronald W., to GSW Limited-GSW Limitee. Instinctive wringer. 3,648,489, 3-14-72, Cl. 68-253.
- Taylor, Ruel E., to Taylor, Ruel E., Inc. Method and apparatus for softness testing. 3,683,681, 8-15-72, Cl. 73-78.000.
- Taylor, Ruel E., Inc.: *See*—
Taylor, Ruel E., 3,683,681.
- Taylor, Ruel E., Jr.: *See*—
Buteau, Roland N.; and Taylor, Ruel E., Jr., 3,654,011.
- Taylor, Ruth E.: *See*—
Taylor, Harold V., 3,631,856.
- Taylor, Ruth N.: *See*—
Pennington, Davis W.; and Taylor, Ruth N., 3,701,897.
- Taylor, William: *See*—
King, Laurence F.; and Taylor, William, 3,666,700.
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- Taylor, William A., to General American Transportation Corporation. Heat-insulated railway tank cars and a method of making the same. 3,653,333, 4-4-72, Cl. 105-360.
- Taylor, William F.: *See*—
Michetti, Louis C.; Haines, Grover C.; Taylor, William F.; and Nemoede, Paul A., 3,633,814.
- Taylor, William I.: *See*—
Mookherjee, Braja D.; and Taylor, William I., 3,681,395.
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Curington, Wayne C.; Fisher, Edmund A.; and Taylor, William M., 3,688,840.
- Taylor, William Paul. Molded plastic furniture construction. 3,642,323, 2-15-72, Cl. 297-456.
- Taylor, William W.; and Spencer, Richard O. Phonograph record vacuum cleaner. 3,654,660, 4-11-72, Cl. 15-308.000.
- Taylor, Willis H.: *See*—
Radnich, Spencer I.; Davelman, Samuel; Symonds, Paul S.; and Taylor, Willis H., 3,665,857.
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McConnell, William M.; Bradley, William H.; Chappel, Howard E.; Whitfield, George P.; and Carey, Raymond L., 3,701,336.
- Taysom, Patrick Arnold; Lewis, Brian Mark; and Kittel, Clive Francis, to International Standard Electric Corporation. Cantilevered spring pressure measurement and adjustment. 3,646,810, 3-7-72, Cl. 73-161.
- Tazewell, Joseph H., to Firestone Tire & Rubber Company, The. Stabilization of polycaprolactam with a mixture of a di-substituted phenylene diamine and a tri(alkylphenyl) phosphite. 3,644,280, 2-22-72, Cl. 260-45.9.
- Tchejeyan, Sarkis K.; and Repinski, James A., to General Motors Corporation. Linear optical scanning device. 3,642,343, 2-15-72, Cl. 350-6.
- Tchelitcheff, Serge, to Rhone-Poulenc S.A. Flavoured and scented products. 3,644,653, 2-22-72, Cl. 424-358.
- TCI, Inc.: *See*—
Anderson, Robert Du Wayne, 3,664,686.
- TDK Electronics Company, Limited: *See*—
Ezaki, Joichiro, 3,641,521.
- Ezaki, Joichiro, 3,656,129.
- Ezaki, Joichiro, 3,671,811.

- Ezaki, Joichiro, 3,680,048.
 Fukui, Sakae; and Kobayashi, Hisamine, 3,702,758.
 Iwaya, Shoichi, 3,654,511.
 Nagazono, Yasuro; and Kamijo, Terufumi, 3,681,137.
 Ojima, Teruhiko; and Nishi, Gosaburo, 3,637,605.
 Ueoka, Hisayoshi; Horii, Kazuo; and Umeya, Kazumasa, 3,673,119.
 Ueoka, Hisayoshi; Horii, Kazuo; Umeya, Kazumasa; and Maruyama, Syunsuke, 3,704,266.
 Watanabe, Hideo; and Yagi, Yoshiyuki, 3,689,414.
 Yoshioka, Tsunehiko; Satou, Hisashi; and Suda, Naoki, 3,660,124.
 Te Kronnie, Gerrit Hendrik; Volkers, Karel Hero; and Poulsen, Poul Albert. Position display method and device. 3,659,346, 5-2-72, Cl. 33-65.
 Te Velde, Ties Siebolt, to U.S. Philips Corporation, mesne. Method of producing layers of grains particularly monolayers of grains embedded in a filler. 3,649,354, 3-14-72, Cl. 117-217.
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 Teac Corporation: See—
 Fujikawa, Sukeyoshi; and Uemura, Yasuhiro, 3,664,672.
 Teach, Eugene G., to Stauffer Chemical Company. Meta-anilide urea compositions and their utility as herbicides. 3,642,891, 2-15-72, Cl. 260-553.
 Teach, Eugene G., to Stauffer Chemical Company. Trifluoromethyl acylated urea carbamates. 3,670,010, 6-13-72, Cl. 260-479.00c.
 Teach, Eugene G., to Stauffer Chemical Company. Bis-meta-phenylene ureas. 3,707,556, 12-26-72, Cl. 260-553.00a.
 Teaching Complements, Incorporated: See—
 Erbert, Virgil, 3,663,758.
 Teagarden, Raymond E. Trailer stand for installing automobile muffler. 3,693,818, 9-26-72, Cl. 214-506.000.
 Teagno, Wladimiro; and D'Urso, Gianfranco, to AMP Incorporated, mesne. Tab receptacle. 3,633,156, 1-4-72, Cl. 339-256.
 Teagno, Wladimiro; and D'Urso, Gianfranco, to AMP Incorporated, mesne. Hermaphroditic connector assembly. 3,634,811, 1-11-72, Cl. 339-47.
 Teagno, Wladimiro, to AMP Incorporated, mesne. Fuse unit having slidable fuse-receiving drawer. 3,648,115, 3-7-72, Cl. 317-101.
 Teagno, Wladimiro; and Trevisiol, Franco, to AMP Incorporated, mesne. PCB Hinged pod connector. 3,680,035, 7-25-72, Cl. 339-59.00m.
 Teague, Dwight Maxwell; Bertrand, William F.; Willson, Philip J.; and Ammermann, Frank E., to Chrysler Corporation. Extrudable refractory fibrous material. 3,667,975, 6-6-72, Cl. 106-65.000.
 Teague, Ernest Douglas, to Norton Abrasives Limited. Manufacture of plaster of Paris mold having sprayed metal oxide linings and product. 3,673,293, 6-27-72, Cl. 264-60.000.
 Teague, Ernest Douglas, to Johnson, Matthey & Co. Limited. Method of making metal articles. 3,689,987, 9-12-72, Cl. 29-527.200.
 Teague, Henry E.: See—
 Guinzy, Norman J.; Kerns, Clyde W.; Ruehle, William H.; and Teague, Henry E., 3,696,331.
 Teague, Loy P., to Texaco Inc. Method and apparatus for avoiding water pollution at an offshore drilling site. 3,693,733, 9-26-72, Cl. 175-66.000.
 Teague, Walter D., Jr., to Southern California Gas Co. Gas heater. 3,696,802, 10-10-72, Cl. 126-110.00b.
 Teague, Walter Dorwin, Jr.; Montalbano, Anthony Philip; Oakes, Andrew A.; Osborne, Keith; and Susey, Peter E., to Columbia Gas System Service Corporation. Method and apparatus for drying laundry. 3,668,784, 6-13-72, Cl. 34-10.000.
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 Teasdale, James R.: See—
 Tonies, Lawrence A.; and Teasdale, James R., 3,646,327.
 Tonies, Lawrence A.; and Teasdale, James R., 3,646,328.
 Teasdale, Max J.: See—
 Black, William J.; Holmstrom, William L.; Liess, Richard K.; and Teasdale, Max J., 3,653,133.
 Moser, Raymond L.; and Teasdale, Max J., 3,693,680.
 Peterson, Robert A.; Grooss, Frank A.; Morgan, William C.; Stedman, Robert N.; and Teasdale, Max J., 3,661,214.
 Tebbel, Robert S.: See—
 Belson, Henry S.; De Savage, Bernard F.; and Tebbel, Robert S., 3,699,553.
 TeBe Elprodukte AB: See—
 Bengtsson, Bigge, 3,675,250.
 Tebo, Walter J., to Emhart Corporation. Sensor control for tool breakage. 3,690,202, 9-12-72, Cl. 82-34.00f.
 Teboul, Albert, to Commissariat a l'Energie Atomique. Device for feeding powdered material. 3,654,970, 4-11-72, Cl. 141-284.
 Tecalemit (Engineering) Limited: See—
 Grantham, Max Edward, 3,632,236.
 Grantham, Max Edward, 3,667,574.
 Tech-Art, Inc.: See—
 Lloyd, Allen H.; and Beckman, William J., 3,678,525.
 Teche, Andre: See—
 Bertin, Daniel; Perronnet, Jacques; and Teche, Andre, 3,658,819.
 Techikawa Spring Co., Ltd.: See—
 Kobori, Yasusaburo, 3,650,223.
 Technab, Les Brouzils (Vendee): See—
 Payraudeau, Hubert Michel Henri; and Payraudeau, Henri Andre Charles, 3,683,573.
 Technalytics Incorporated: See—
 Chodrow, Ingram S., 3,695,271.
 Technequip Limited: See—
 Maxwell, John Russell, 3,701,421.
 Technica-Guss GmbH: See—
 Krall, Heribert; and Koch, Hans Adalbert, 3,706,336.
 Technical Animations, Inc.: See—
 Hoyte, Paul A., Jr., 3,650,625.
 Technical Communications Corporation: See—
 Dayton, David S.; and Girard, Alfred L., 3,691,464.
 Technical Fabricators, Inc.: See—
 Ball, Harry; and Steward, Henry A., 3,651,946.
 Technical, Inc.: See—
 Jackson, John L., 3,699,252.
 Technical Management Services, Inc.: See—
 Gilbert, Roswell W., 3,678,495.
 Gilbert, Roswell W., 3,698,775.
 Technical Operations, Incorporated: See—
 Bouche, Edmund L., 3,640,711.
 Buck, Willard E.; and Holland, Thomas E., 3,647,956.
 Buck, Willard E.; Herbold, Robert J.; and Sherman, Randy J., 3,698,514.
 Heinonen, Russell M., Jr., 3,656,841.
 Heinonen, Russell M., Jr., 3,677,629.
 Mueller, Peter F., 3,664,248.
 Prest, Robert J., 3,690,529.
 Wheeler, Robert V., 3,652,854.
 Technical Tape Corporation: See—
 Shuman, Joseph George, 3,636,408.
 Technical Wire Products Inc.: See—
 Nellis, Stewart; Kopf, Joseph Ellis; and Reti, Adrian R., 3,680,037.
 Technicolor, Inc.: See—
 Reitz, Lewis P., Jr., 3,698,806.
 Robak, Edward, 3,642,536.
 Robak, Edward, 3,704,054.
 Technicon Corporation: See—
 Adler, Stanford L., 3,647,070.
 Adler, Stanford L., 3,650,698.
 Beaver, Murray W., 3,648,160.
 Dagnall, Roy Maurice, 3,645,629.
 Isreeli, Jack; and Kassel, Aaron, 3,643,689.
 Johnson, Carl V.; and Leisio, Reino, 3,650,296.
 Peoples, John C. A.; and Adler, Stanford L., 3,635,680.
 Technicon Instruments Corporation: See—
 Bilichniansky, Theodore, 3,698,868.
 Dannewitz, Robert E.; and Luongo, Albert M., 3,647,187.
 De Angelis, William M., 3,679,237.
 De Jong, Eduard B. M., 3,698,870.
 Elking, Alan H.; Groner, Warren; and Saunders, Alex M., 3,661,460.
 Engelhardt, Alvin, 3,680,967.
 Gasiunas, Donatas V., 3,681,577.
 Heller, Zindel H., 3,669,544.
 Herron, Rand E., 3,668,936.
 Herron, Rand E.; and Olich, Jack M., 3,695,812.
 Kassel, Aaron, 3,654,959.
 Kassel, Aaron; and Kopelman, Donald F., 3,697,185.
 Leon, Luis P., 3,695,281.
 Lieberman, Lee M.; and Schumann, Robert T., 3,655,288.
 Livshitz, Stanley L.; Engelhardt, Alvin; and Adler, Stanford L., 3,679,129.
 Livshitz, Stanley L.; and Mayo, Robert Alan, 3,692,236.
 Mansberg, Hyman P., 3,679,312.
 Mayo, Robert A.; and Ohringer, Philip, 3,679,130.
 Mitchell, Douglas, 3,678,734.
 Morgenstern, Stanley W., 3,700,562.
 Negersmith, Kent M.; and Calogero, William J., 3,679,367.
 Pelavin, Milton H.; Koszyn, Allan I.; and Heier, Earl, 3,634,868.
 Skeggs, Leonard T., 3,699,004.
 Watts, Leonard, 3,680,624.
 Widmark, Rudolph M.; Lichtenstein, Bernard; Paseltiner, Lynn; and Padawer, Jacques, 3,700,555.
 Wrightman, Karl B.; and Zehnder, Hans, 3,679,365.
 Technicraft International, Inc.: See—
 Young, David P., 3,658,698.
 Technidyne, Inc.: See—
 Walsh, Robert R.; and Apostolico, Martin A., 3,659,949.

- Technigaz: See—
 Alleaume, Jean H.; and Fournier, Gilbert C. F. (said Alleaume assor. to), 3,686,920.
 Technion Research and Development Foundation Limited: See—
 Amir, Ilan; and Peranio, Anthony, 3,678,754.
 Techniques Louis Menard: See—
 Menard, Louis F., 3,653,167.
 Techniservice Corporation: See—
 Irwin, Malcolm F., 3,643,417.
 Stanley, Robert K., 3,636,599.
 Technitrend, Inc.: See—
 Wood, Stanley J., 3,694,811.
 Technitrol, Inc.: See—
 Storey, William T., II; Procter, Robert F.; Snyder, Charles H. A.; Jacob, George M.; and Mooney, Raymond T., 3,672,046.
 Technology Application Services Corporation: See—
 Camacho, Salvador L., 3,673,375.
 Technology Marketing, Incorporated: See—
 Wells, George H.; and Persons, Perry B., 3,660,829.
 Wells, George H.; and Persons, Perry B., 3,697,966.
 Technology Systems, Inc.: See—
 Morrow, Robert D.; and Sesko, William J., 3,682,183.
 Technomatic AG: See—
 Herion, Erich; and Ruchser, Erich, 3,699,993.
 Technomedic Corporation: See—
 Gilmour, A. Scott, 3,696,675.
 Technor Incorporated: See—
 Bell, Lon E., 3,688,063.
 Technoscience Systems, Inc.: See—
 Bodai, Conrad A., 3,685,808.
 Techo-Components Corporation: See—
 Hamill Arthur L., 3,683,308.
 Techue Systems Incorporated: See—
 De Bruyne, Norman A.; and Brewin, Geoffrey M., 3,693,658.
 Teckton, Inc.: See—
 Goltsos, Costas E., 3,688,518.
 Tecna Corporation: See—
 Kitrilakis, Sotiris; and Robinson, Thomas C., 3,699,956.
 Kitrilakis, Sotiris, 3,700,380.
 Kitrilakis, Sotiris S., 3,674,440.
 Robinson, Thomas C., 3,699,957.
 Tecnico, Inc.: See—
 De Lizasoain, Gabriel V., 3,667,234.
 Tecnomia: See—
 Ballu, Vincent Pierre Marie, 3,674,208.
 Tecono S.p.A.: See—
 Borsani, Osvaldo; and Gerli, Eugenio, 3,663,079.
 Tecotzky, Melvin: See—
 Hurley, Forrest R.; Tecotzky, Melvin; and Vanik, Milton C., 3,691,087.
 Tecumseh Products Company: See—
 Cheers, Robert J., 3,663,127.
 Farr, James B., 3,661,132.
 Hover, Paul B., 3,698,840.
 Janisch, Douglas G., 3,646,667.
 Pawlina, Julian S., 3,677,364.
 Wolf, Rudolf Herman, 3,687,019.
 TED Bildplatten Aktiengesellschaft: See—
 Dickopp, Gerhard, 3,691,317.
 Schuller, Eduard; Redlich, Horst; Dickopp, Gerhard; and Klemp, Hans-Joachim, 3,691,318.
 Tedeco Textile Development Co. A/S: See—
 Skaathun, Olav; and Troope, Walter S., 3,664,158.
 Teder, Harry, to Telex Corporation, The. Noise cancelling microphone. 3,633,705, 1-11-72, Cl. 181-31.
 Tedeschi, Armand E., Jr., to Christmas, Mr., Incorporated. Stand for an artificial tree or the like. 3,706,435, 12-19-72, Cl. 248-48.000.
 Tedeschi, Robert J.; and McMahon, Herbert C., to Air Products and Chemicals, Inc., mesne. Treatment of acetylenic glycols. 3,636,167, 1-18-72, Cl. 260-638.
 Tedeschi, Robert J.; and Natali, Paul W., to Air Products and Chemicals, Inc., mesne. System for corrosion inhibition. 3,642,640, 2-15-72, Cl. 252-146.
 Tedeschi, Robert J.; and Natali, Paul W., to Air Products and Chemicals, Inc., mesne. Corrosion inhibition. 3,642,641, 2-15-72, Cl. 252-148.
 Tedeschi, Robert J.; and Natali, Paul W., to Air Products and Chemicals, Inc., mesne. Corrosion inhibitor mixture. 3,655,571, 4-11-72, Cl. 252-148.
 Tedeschi, Robert J., to Air Products and Chemicals, Inc., mesne. Catalysts for producing acetylenic alcohols. 3,663,628, 5-16-72, Cl. 260-632.
 Tedmon, Craig S., Jr.; and Spacil, Henry S., to General Electric Company. Ferrous metal substrate with dense, black glossy oxide coating and process for coating preparation. 3,639,177, 2-1-72, Cl. 148-6.3.
 Tee-Pak, Inc.: See—
 Bridgeford, Douglas J.; Turbak, Albin F.; and Burke, Noel I., 3,649,346.
 Bridgeford, Douglas J., 3,669,791.
 Bridgeford, Douglas J.; Turbak, Albin F.; and Burke, Noel I., 3,689,466.
 Burke, Noel I.; Bridgeford, Douglas J.; and Turbak, Albin F., 3,666,738.
 Burke, Noel I.; Bridgeford, Douglas J.; and Turbak, Albin F., 3,666,739.
 Coleman, Harold R., 3,695,904.
 Martinek, Thomas W., 3,657,769.
 Oppenheimer, Seymour; and Turbak, Albin F., 3,640,734.
 Oppenheimer, Seymour; and Turbak, Albin F., 3,640,735.
 Oppenheimer, Seymour; and Turbak, Albin F., 3,679,436.
 Oppenheimer, Seymour; and Turbak, Albin F., 3,679,437.
 Rose, Henry J.; Turbak, Albin F.; and Leahy, Thomas E., 3,653,928.
 Rose, Henry J.; and Turbak, Albin F., 3,658,560.
 Rose, Henry J.; Turbak, Albin F.; and Leahy, Thomas E., Jr., 3,674,511.
 Rose, Henry J.; and Turbak, Albin F., 3,674,523.
 Turbak, Albin F., 3,669,692.
 Turbak, Albin F.; and Rose, Henry J., 3,676,382.
 Turbak, Albin F., 3,682,661.
 Teed, Richard K., to Riegel Textile Corporation. Apparatus for folding and stacking flexible sheets. 3,702,696, 11-14-72, Cl. 270-66.000.
 Teeg Research, Inc.: See—
 Hallman, Robert W.; and Kurtz, Gary W., 3,637,377.
 Hallman, Robert W.; and Kurtz, Gary W., 3,637,378.
 Hallman, Robert W.; and Kurtz, Gary W., 3,637,379.
 Hallman, Robert W.; and Kurtz, Gary W., 3,637,380.
 Hallman, Robert W.; and Kurtz, Gary W., 3,637,381.
 Hallman, Robert W.; and Kurtz, Gary W., 3,637,383.
 Hallman, Robert W.; and Kurtz, Gary W., 3,650,743.
 Hallman, Robert W.; and Kurtz, Gary W., 3,663,224.
 Hallman, Robert W.; and Kurtz, Gary W., 3,707,372.
 McMenamin, James M., 3,665,440.
 Teeg, Robert O.; and Hallman, Robert W., 3,642,432.
 Teeg Research, Inc., mesne: See—
 Teeg, Robert O.; and Hallman, Robert W., 3,650,680.
 Teeg, Robert O.; and Hallman, Robert W., to Teeg Research, Inc. Processes for obtaining vanadium suboxides. 3,642,432, 2-15-72, Cl. 23-19.
 Teeg, Robert O.; and Hallman, Robert W., to Teeg Research, Inc., mesne. Processes for obtaining vanadium suboxides. 3,650,680, 3-21-72, Cl. 23-21.
 Teegarden, Ross W.: See—
 Ireland, Robert G.; Manis, Fred L.; and Teegarden, Ross W., 3,703,925.
 Teel, Dale M.; and Putnam, John H., Jr., to United States of America, Atomic Energy Commission. Sequential sampler. 3,657,920, 4-25-72, Cl. 73-28.
 Teel, Patrick A.; and MacEachron, Lendrum A. Banjo structure. 3,707,105, 12-26-72, Cl. 84-269.000.
 Te'Eni, Moshe, to National Research Development Corporation. Testing of concrete. 3,640,126, 2-8-72, Cl. 73-88.
 Teeple, Michael D.: See—
 Snider, Theodore O.; and Teeple, Michael D., 3,669,599.
 Teeter, George R. Drive sprocket for wide chain of drum cutting head. 3,697,136, 10-10-72, Cl. 299-83.000.
 Teeters, James L.: See—
 Clark, Wallace; and Teeters, James L., 3,680,522.
 Clark, Wallace; Jones, Reginald A.; and Teeters, James L., 3,701,543.
 TEFA Industri Aktiebolag: See—
 Larsson, Hans Tord E., 3,640,540.
 Tefertiller, Ben A.: See—
 Habermann, Clarence E.; Friedrich, Ralph E.; and Tefertiller, Ben A., 3,642,894.
 Tefertiller, Nancy B.: See—
 Jones, Giffin D.; and Tefertiller, Nancy B., 3,703,553.
 Tefit, Edward G., to General Electric Company. Glass encapsulated semiconductor device fabrication process. 3,639,975, 2-8-72, Cl. 29-580.
 Tegeler, Carol A., to Kellwood Company. Combination sleeping bag and bolster hood. 3,633,227, 1-11-72, Cl. 5-343.
 Tegg, Derek: See—
 Coon, Clifford L.; and Tegg, Derek, 3,658,903.
 Tegge, Bruce R.; Teiser, William L.; Love, James H.; and Rosenbaum, Barry M., to Esso Research and Engineering Company. Novel process for solvent purification and recovery. 3,642,731, 2-15-72, Cl. 260-80.78.
 Teggers, Hans: See—
 Hilberath, Friedrich; and Teggers, Hans, 3,690,550.
 Lowicki, Norbert; and Teggers, Hans, 3,669,617.
 Tehalit Kunststoffwerk G.m.b.H., Firma: See—
 Pollak, Gottfried; and Kolb, Peter, 3,697,667.
 Teich, Rudor M., to Babaco Research, Inc. Vehicle holdup and theft alarm. 3,639,897, 2-1-72, Cl. 340-64.
 Teich, Rudor M. Automobile theft alarm for detecting unauthorized energization of resistive load. 3,671,934, 6-20-72, Cl. 340-63.000.
 Teichgraber, James A. Automatic feeder. 3,659,747, 5-2-72, Cl. 222-14.000.

- Teichmann, Charles F.: *See—*
Brent, Albert; and Teichmann, Charles F., 3,687,646.
- Teichmann, Charles F.; and Brent, Albert, to Texaco Development Corporation. Garbage disposal process. 3,671,209, 6-20-72, Cl. 48-209,000.
- Teichmann, Friedrich: *See—*
Hengelhaupt, Hans-Georg; and Teichmann, Friedrich, 3,702,652.
- Teichmann, Otmar E.: *See—*
Gyory, Emeric J.; and Teichmann, Otmar E., 3,671,048.
- Teichmeier, Franklin J. Hand lever ratchet wrench. 3,682,008, 8-8-72, Cl. 74-142,000.
- Teichmüller, Gerhard; Barnikol-Oettler, Kurt; and Hartmann, Werner, to VEB Jenapharm. Trialkylsiloxy-steroid compounds and process for making same. 3,671,555, 6-20-72, Cl. 260-397,400.
- Teichmüller, Gerhard; Barnikol-Oettler, Kurt; and Hartmann, Werner, to VEB Jenapharm. Process of preparing ethylidene compounds. 3,707,489, 12-26-72, Cl. 260-397,500.
- Teichner, Stanislas Jean; and Gilbert, Andre Nicolaon, to Etat Français represente par le Ministre des Armees Delegation Ministerielle pour l'Armement. Method of preparing inorganic aerogels. 3,672,833, 6-27-72, Cl. 23-182,00r.
- Teige, William, to Columware, Inc. Liquid dispensing apparatus. 3,648,904, 3-14-72, Cl. 222-380.
- Teijeiro, Benito Jose Calvino Y., to Magrini Fabbri Rione Magrini Scarpa e Magnano-M.S.M.-S.p.A. Blast orifice unit for self-blasting compressed gas electric circuit-breakers. 3,668,352, 6-6-72, Cl. 200-148,00r.
- Teijin Limited: *See—*
Fujiwara, Shigeru; Nagae, Kenji; and Okuhashi, Tomomi, 3,669,736.
- Fukuda, Masao; Goto, Hachiro; Norota, Susumu; and Fujisawa, Yukimasa, 3,679,533.
- Fukushima, Takaaki; Takizawa, Haruki; Hori, Kikuo; Sato, Yoshito; and Mizumori, Haruhiko, 3,671,623.
- Goto, Hachiro, 3,686,146.
- Hara, Shigeyoshi; Senoo, Masao; Yoshida, Tsunemasa; and Uchida, Moriya, 3,647,762.
- Honda, Kyomi; and Misaki, Koji, 3,661,629.
- Hori, Kikuo; and Fujita, Masakazu, 3,637,160.
- Hori, Kikuo; and Sato, Yoshito, 3,669,373.
- Hori, Kikuo; Yamada, Hiroshi; and Itoh, Hiroshi, 3,695,529.
- Hosono, Shinichi; and Kida, Kazuyoshi, 3,674,057.
- Ichikawa, Yataro; Tokashiki, Michiyuki; and Suzuki, Nobuo, 3,632,830.
- Ichikawa, Yataro; and Yamanaka, Yoshiyuki, 3,641,112.
- Ichikawa, Yataro; Yamashita, Gentaro; and Akachi, Tuichi, 3,660,476.
- Ichikawa, Yataro; Tokashiki, Michiyuki; and Suzuki, Nobuo, 3,666,791.
- Ichikawa, Yataro; Yamashita, Gentaro; Tokashiki, Michiyuki; and Suzuki, Nobuo, 3,668,235.
- Ishida, Kinyu; and Okamura, Yasuhiro, 3,666,154.
- Ishimoto, Sachio; Nakagawa, Koji; Togawa, Haruo; and Chubachi, Sumio, 3,649,685.
- Kadokura, Sadao; and Miura Kazuchika, 3,681,670.
- Kigane, Koji; Ishihara, Nobuji; and Kametaka, Atushi, 3,666,542.
- Kigane, Koji; Yamada, Shinichi; and Koga, Kazuo, 3,687,715.
- Knodo, Takao; and Takizawa, Haruki, 3,665,070.
- Koizumi, Takao; and Kajita, Takao, 3,646,646.
- Kurihara, Osamu; Kuramoto, Naoya; Kamiyoshi, Masaya; and Yamaguchi, Takeshi, 3,697,310.
- Mitsuishi, Yukio; Matsuura, Masanori; and Kuroda, Toshimasa, 3,651,198.
- Nozawa, Tetsuo, 3,632,719.
- Ogata, Kazuo; and Shimosato, Kazuo, 3,671,578.
- Okuhashi, Tomomi; and Fujiwara, Shigeru, 3,666,550.
- Ozawa, Shuji; and Fujie, Hiroshi, 3,640,970.
- Shima, Takeo; Urasaki, Takanori; and Oka, Isao, 3,637,910.
- Shimauchi, Shiro; Minemura, Norihiro; Matsui, Takeshi; Ito, Kenji; Shima, Takue; Kawase, Shoji; and Oshima, Masataka, 3,666,403.
- Shimauchi, Shiro; Yoshida, Saburo; and Muro, Koji, 3,669,611.
- Shimauchi, Shiro; Kitamura, Yuko; Iwabuchi, Osamu; and Matsui, Takeshi, 3,700,399.
- Takizawa, Haruki; and Fujita, Masakazu, 3,685,765.
- Tanabe, Takashi; Aoki, Hiroshi; Murakami, Hitoshi; and Matsumoto, Fujio, 3,683,060.
- Tanaka, Ikuzo; Uehara, Hideo; and Yamagata, Masayuki, 3,637,839.
- Tanaka, Ikuzo; Uehara, Hideo; and Tanaka, Makoto, 3,658,810.
- Tanaka, Ikuzo; Ohno, Yasuhisa; and Okada, Tadashi, 3,658,811.
- Taneda, Yasuo; Naka, Kiyomi; and Horike, Akihiro, 3,695,877.
- Watake, Hideo; Kobayashi, Akira; Hirakawa, Tadashi; and Sugiyama, Atsushi, 3,634,580.
- Yamada, Seibi; and Asada, Reizo, 3,650,645.
- Yamada, Seibi; and Asada, Yoshiharu, 3,661,330.
- Yamada, Seibi; and Takizawa, Haruki, 3,669,584.
- Yamamoto, Akira; and Moriyama, Keiichi, 3,653,964.
- Yamamoto, Akira; and Moriyama, Keiichi, 3,669,740.
- Teijin Seiki Co., Ltd.: *See—*
Ishihara, Satoshi, 3,687,383.
- Tsugawa, Kazuyuki; and Sato, Yasuhiro, 3,638,411.
- Teikoku Dempa Co., Ltd.: *See—*
Tanaka, Yoshinobu; and Takahashi, Kiyoshi, 3,645,540.
- Yasuda, Yukitomo; Akasaka, Tadashi; Nishikawa, Yasuhisa; and Magi, Mamoru, 3,634,791.
- Teikoku Hormone Mfg. Co., Ltd.: *See—*
Hara, Kazuo; Samoto, Mistunobu; Sawai, Masanobu; and Nakamura, Shiro, 3,704,168.
- Matsushima, Sanae; Tezuka, Tadashi; and Nakanowatari, Kameo, 3,689,633.
- Yamamoto, Masaaki; and Nakazawa, Tsuneyuki, 3,707,531.
- Teil, Daniel G.: *See—*
Leipp, Emile A.; Castellengo, Michele M. T.; Lienard, Jean-Sylvain R.; Quinio, Jacques L.; Sapaly, Jean; and Teil, Daniel G., 3,632,887.
- Teinert, Karl-Heinz: *See—*
Kleinschmidt, Hans-Joachim; and Teinert, Karl-Heinz, 3,643,468.
- Teiser, William L.: *See—*
Tegge, Bruce R.; Teiser, William L.; Love, James H.; and Rosenbaum, Barry M., 3,642,731.
- Teisseire, Paul Jose: *See—*
Galfre, Andre Marc; Plattier, Marcel; and Teisseire, Paul Jose, 3,649,676.
- Teitel, Sidney: *See—*
Brossi, Arnold; Focella, Antonino; Rachlin, Albert Israel; and Teitel, Sidney, 3,636,080.
- Brossi, Arnold; and Teitel, Sidney, 3,684,810.
- Teitelbaum, Bernard R.: *See—*
Mayer, Endre A.; and Teitelbaum, Bernard R., 3,672,474.
- Teitelbaum, Bernard R., to Bendix Corporation. The Device for detecting leaks in vacuum or pneumatic pressure lines. 3,673,857, 7-4-72, Cl. 3-40,50a.
- Teitelbaum, Bernard R., to Bendix Corporation. The Annular slot proportional jet amplifier for a fluidic sound generator. 3,701,334, 10-31-72, Cl. 116-137,000.
- Teitelbaum, Charles L.: *See—*
Moores, Ralph G.; and Teitelbaum, Charles L., 3,644,127.
- Teitgen, Jean: *See—*
Mornet, Philippe; Teitgen, Jean; and Marie, Gilbert, 3,636,019.
- Teitgen, Jean; and Mornet, Philippe, to Societe Nationale des Petroles d'Aquitaine. Catalysts for polymerizing olefins. 3,639,368, 2-1-72, Cl. 260-88,2.
- Teitz, Peter David: *See—*
Strauss, Rudolf Siegfried; and Teitz, Peter David, 3,675,307.
- Teiwes, Hans-Jurgen: *See—*
Krauth, Axel; and Teiwes, Hans-Jurgen, 3,668,292.
- Teixeira, James F.: *See—*
Press, Meyer; Teixeira, James F.; and Wolff, Gerald, 3,633,051.
- Teizo, Shinozaki: *See—*
Minoru, Shindo; Kanji, Maro; and Teizo, Shinozaki, 3,692,776.
- Tejera, Louis: *See—*
Vacirca, Michael; Smith, Michael; and Tejera, Louis, 3,684,455.
- Tejera, Luis H., to Mallinckrodt Chemical Works, mesne. Measuring syringe. 3,675,492, 7-11-72, Cl. 73-425,600.
- Tekkosa Co., Ltd.: *See—*
Adachi, Kazuo; Tai, Akira; and Higashi, Fukuji, 3,635,888.
- Sasaki, Seiya, 3,667,906.
- Teknor Apex Company: *See—*
Fath, Joseph; and Deardorff, Donald L., 3,669,995.
- Tekology Corporation: *See—*
Blengli, Helmer L., 3,701,671.
- Tektronix, Inc.: *See—*
Battjes, Carl R., 3,633,120.
- Boer, Machiel, 3,676,807.
- Bresce, Heber J.; and Bowman, James L., 3,656,031.
- Butler, Marlow D., 3,683,225.
- Charters, Thomas H., 3,676,777.
- Dalton, Oliver; and Weidel, Vaughn, 3,668,505.
- DeVey, William J.; and Larson, Lester L., 3,663,832.
- Frankland, Roger A., 3,687,665.
- Geerling, Leonardus Johannes, 3,701,993.
- Gibson, Charles B., Jr., 3,679,824.
- Gilbert, Barrie, 3,651,510.
- Gilbert, Barrie, 3,689,752.
- Gilbert, Barrie, 3,697,785.
- Griffin, John R., 3,641,555.
- Hawes, James D., 3,670,199.
- Holmes, Robert E., 3,649,865.
- Jurgensen, David J., 3,702,375.
- Kauffman, Eugene C.; and Lockwood, Larry R., 3,646,456.
- Kiwiet, William B., 3,693,064.
- Knapton, James H., 3,654,489.
- Lind, Roger S., 3,632,008.
- Morinaud, Pierre C., 3,665,239.
- Moriyasu, Hiro, 3,639,785.
- Moriyasu, Hiro, 3,643,234.
- Moriyasu, Hiro, 3,681,617.

- Odenthal, Conrad J.; and Hashizume, George K., 3,694,689.
- Olson, Ronald A., 3,697,778.
- Petersen, Walter A., 3,637,997.
- Preiss, Richard B., 3,696,338.
- Roth, Stephen A., 3,699,256.
- Saul, Ivar, 3,685,424.
- Walker, Maurice Mark, 3,680,003.
- Wilhoit, Darrel L., 3,693,058.
- Tel-E-Lect, Inc.: *See—*
Johnson, Orlo J.; and Reske, Albert E., 3,631,939.
- Kennedy, Ray L., 3,699,851.
- Reske, Albert E.; and Johnson, Orlo J., 3,690,408.
- Tel-Tech Corporation: *See—*
Fritkin, George A., 3,668,562.
- Fritkin, George A., 3,670,250.
- Holland, Graham, 3,636,524.
- Tel-Tone Corporation: *See—*
Asmusen, Daniel R., 3,705,417.
- McIntosh, Alexander Charles; and Smith, Maurice Irvin, 3,636,270.
- McIntosh, Alexander Charles; and Smith, Maurice Irvin, 3,704,348.
- Telang, Yeshwant P.: *See—*
Rao, Vemulapalli D.; and Telang, Yeshwant P., 3,659,861.
- Rao, Vemulapalli D.; Telang, Yeshwant P.; and White, Jerry E., 3,679,459.
- Telantograph Corporation: *See—*
Diamond, Arthur S.; and Carr, David E., 3,687,822.
- Telautograph Corporation: *See—*
Diamond, Arthur S.; and Carr, David E., 3,668,079.
- Telecom, Inc.: *See—*
Ahlgren, James D., 3,667,043.
- Teldec Telefunken-Decca Schallplatten G.m.b.H.: *See—*
Dickopp, Gerhard; Klemp, Hans-Joachim; Redlich, Horst; and Schuller, Eduard, 3,652,809.
- Teldix G.m.b.H.: *See—*
Leiber, Heinz; and Rodi, Anton, 3,637,264.
- Leiber, Heinz; and Krumling, Fritz, 3,645,584.
- Tele Cash, Inc.: *See—*
Schipper, Richard A., 3,684,878.
- Tele-Conn Enterprises, Inc.: *See—*
Alessio, Ralph D., 3,691,896.
- Telecheck International, Inc., mesne: *See—*
Rothwell, Guy N., Jr., 3,636,615.
- Telecommunications Technology, Inc.: *See—*
Lubarsky, Andre, Jr., 3,701,953.
- Teledoc Corporation: *See—*
Heflin, Albert E., Sr., 3,638,642.
- Teledyne, Inc.: *See—*
Amesbury, Maurice G.; and Van Vonderen, Jacobus, 3,680,461.
- Caldwell, John W.; and Smith, Edward M., 3,697,799.
- De Long, William T.; and Corcoran, Paul T., 3,667,924.
- DeLong, William T.; and Corcoran, Paul T., 3,656,918.
- Duttera, Robert B.; and Macshane, Gordon H., 3,643,061.
- Foley, William R., Jr., 3,640,114.
- Gwathmey, Edward S.; and Embree, John M., 3,681,580.
- Hessinger, William A., 3,636,802.
- Kennedy, George C., 3,676,069.
- Kennedy, George C., 3,704,969.
- Koschoff, John; Haas, Kenneth C.; and Pettit, Robert F., 3,665,878.
- Lamb, Charles Paul; Dudley, William A.; Kingsley, George S.; and De Moss, Edward E., 3,659,961.
- Lewis, Robert E.; and Wright, Melvin D., 3,658,417.
- Mankovitz, Roy J., 3,648,075.
- Mankovitz, Roy J., 3,691,426.
- McDonald, William K., 3,667,940.
- Nicol, John, 3,653,694.
- Pease, Robert A., 3,668,541.
- Shirey, Carey L.; and Gilgore, William H., 3,692,195.
- Skrabek, Emanuel Andrew; and Trimmer, Donald Smith, 3,695,867.
- Snyder, James R., 3,690,443.
- Wells, Samuel G., 3,673,618.
- Welty, Joseph M.; Shiota, Philip; and Murray, Roger W., 3,636,619.
- Wiesler, Mordechai, 3,648,169.
- Wiesler, Mordechai; and Macintyre, John S., 3,668,044.
- Wiesler, Mordechai; Martinonis, Virgil; and Macintyre, John S., 3,695,414.
- Wiesler, Mordechai; Martinonis, Virgil; and Macintyre, John S., 3,702,923.
- Wood, Arthur Eastman; Marvin, Ralph Edward; and Bates, Ralston Everett, 3,656,073.
- Youtz, Donald E.; and Eigenbrode, Edwin M., 3,681,802.
- Youtz, Donald E.; and Eigenbrode, Edwin M., 3,696,454.
- Teledyne, Inc.: *See—*
Alderfer, Sterling W., 3,666,589.
- Bienert, Walter B.; Levedahl, William J.; and Streb, Alan J., 3,672,443.
- Hollmann, Walter G.; and Lozo, Frederick M., III, 3,677,786.
- Leonard, John; and Wenger, Martin S., Jr., 3,631,704.
- Magladry, Robert E., 3,644,173.
- Magladry, Robert E., 3,660,228.
- Petit, Robert F.; and Wesnoskie, James F., 3,672,312.
- Pettit, Robert F.; Haas, Kenneth C.; and Gibson, Leslie W., Jr., 3,633,799.
- Streb, Alan J.; Stivers, George S.; and Kelly, Howard R., 3,668,015.
- Teledyne Industries, Inc.: *See—*
Alberani, Julius, 3,695,037.
- Cronstedt, Val, 3,704,695.
- Erwin, Rudy, 3,703,368.
- Isley, Walter F., 3,667,433.
- Kirkpatrick, Burnard M., 3,688,583.
- Wilt, Marvin D., 3,686,658.
- Teledyne Industries-Geotech Division: *See—*
Brown, Robert F., Jr., 3,637,951.
- Teledyne Mid-America Corporation: *See—*
Kruer, Harold H., 3,636,415.
- Paris, Ray J.; and Rudd, Harry M., 3,665,376.
- Teledyne Mid-American Corporation: *See—*
Church, Herman S.; and Clark, Duane J., 3,667,726.
- Elmore, Clifford L.; and Young, Richard C., 3,696,756.
- Teledyne Ryan Aeronautical Company: *See—*
Girard, Peter F.; and Peterson, John M., 3,675,582.
- Girard, Peter F., 3,703,998.
- Killion, Derling G.; and Janza, Frank J., 3,680,111.
- Killion, Derling G.; and Roberts, Kent B., 3,696,433.
- Teledyne-Mid America Corporation: *See—*
Church, Herman S., 3,638,361.
- Church, Herman S., 3,647,180.
- Teleflex, Inc.: *See—*
Bennett, William G.; and Miller, Donald M., 3,662,617.
- Bennett, William G., 3,665,784.
- Teleflex Incorporated: *See—*
PHELPS, Fred L., Jr.; and Klotz, James M., 3,656,975.
- Teleflex Limited; formerly Teleflex Products Limited: *See—*
McFarlane, Arthur Herbert, 3,661,352.
- Teleflex Products Limited: *See—*
Dove, Ernest Baker, 3,674,307.
- Telefonaktiebolaget L. M. Ericsson: *See—*
Bohman, Erik Harald, 3,691,472.
- Carlsson, Anders Kjell Johan; Jorgensen, Anders Ossian; Olsson, Olof Alarik; and Ziegler, Horst Robert Adolf, 3,659,050.
- Collin, Rolf Henrik; Kjallstrom, Arne Rudolf; and Thysk, Rune Nils Anders, 3,694,783.
- Crespel, Michel; and Valat, Christian, 3,707,606.
- Danell, Curt; and Johannesson, Nils Olof, 3,639,687.
- Edstrom, Nils Herbert; and Hemdal, Goran Anders Henrik, 3,673,577.
- Hansen, Arne Sven; and Pegert, Walter Emil, 3,650,587.
- Hansson, Hans Olof, 3,636,242.
- Hasselbohm, Sune Sigurd Sixten, 3,703,700.
- Hemdal, Goran Anders Henrik; and Lennmarker, Nils Bertil, 3,644,895.
- Hemdal, Goran Anders Henrik, 3,653,003.
- Hemdal, Goran Anders Henrik, 3,668,330.
- Hemdal, Goran Anders Henrik, 3,668,646.
- Karlsson, Stig Erik, 3,634,856.
- Krantz, Tore Samuel, 3,674,960.
- Lagercrantz, Bengt Ake; and Andersen, Kare, 3,696,037.
- Lindback, Ulf Robert Oscarson; and Vollmer, Herman Josef Burghardt, 3,651,263.
- Lindqvist, Stig Gustaf; and Vaher, Ilmar Valfeid, 3,638,124.
- Magnusson, Bengt Gunnar; and Neovius, Theodor Gosta, 3,683,117.
- More, Oskar Wilhelm, 3,696,781.
- Mossberg, Kare Hjord; and Akerberg, Dag E. Son, 3,636,466.
- Nilsson, Nils Lennart, 3,659,210.
- Odmarm, Per Ranold, 3,643,132.
- Overby, Sune Lambert, 3,639,679.
- Pettersson, George Gustaf Lennart, 3,660,845.
- Sahlgren, Rolf Ake; and Wiljanen, Bo Ingvar, 3,646,826.
- Sparrendahl, Gunnar Erik William, 3,643,030.
- Stromberg, Sven Ake Olof; Thurenius, Ake Gunnar Herbert; and Wallin, Hans Erik, 3,633,135.
- Vago, Frans; and Wolpert, Tadeusz, 3,683,118.
- Vollmer, Burghardt; and Lindback, Ulf, 3,637,942.
- Vollmer, Herman Josef Burghardt, 3,665,489.
- Widl, Walter Herbert Erwin; and Olofsson, Erik Herbert, 3,638,142.
- Widl, Walter Herbert Erwin, 3,665,328.
- Telefunken G.m.b.H.: *See—*
Dickopp, Gerhard; Klemp, Hans-Joachim; Redlich, Horst; and Schuller, Eduard, 3,652,809.
- Telefunken Patentverwertungsgesellschaft m.b.H.: *See—*
Ohnsorge, Horst; and Wagner, Winfried, 3,683,278.
- Telefunken Patentverwertungsgesellschaft m.b.H.: *See—*
Bachmeier, Alfred, 3,633,269.
- Bahlberg, Reinhard, 3,698,077.
- Bitzer, Wolfgang, 3,646,444.

- Borner, Manfred; and Maslowski, Stefan, 3,636,529.
 Bosch, Berthold; and Pollmann, Horst, 3,634,780.
 Engbert, Reiner, 3,633,268.
 Engbert, Reiner, 3,639,814.
 Gereth, Reinhard; and Fischer, Horst, 3,686,036.
 Gerstner, Dieter, 3,673,016.
 Gissel, Hans, 3,648,201.
 Gramann, Wolfgang, 3,658,618.
 Hammelehle, Wilfried, 3,634,781.
 Herold, Wolf, 3,632,885.
 Herold, Wolf; and Ohnsorge, Horst, 3,641,273.
 Hochschorner, Paul; and Kielwein, Fritz, 3,645,326.
 Kaiser, Reinhold, 3,673,012.
 Kersten, Karl-Heinz; and Patschan, Wolfgang, 3,673,515.
 Kummerer, Karl-Heinz, 3,697,064.
 Maute, Hans-Jürgen, 3,657,573.
 Minner, Willy; and Lindner, Gerhard, 3,636,455.
 Rehm, Karl; and Zeitler, Roland, 3,632,107.
 Schuller, Eduard, 3,646,259.
 Schutloffel, Erich; and Schickle, Gerhard, 3,659,234.
 Schutze, Hans-Jürgen; and Hennings, Klaus, 3,689,992.
 Stork, Fritz, 3,649,807.
 Stork, Fritz, 3,705,060.
 Straub, Dieter, 3,679,883.
 Von der Ohe, Wilfried, 3,634,618.
 Westphal, Klaus, 3,683,489.
 Westphal, Klaus, 3,703,837.
 Zizelmann, Walter, 3,639,770.
- Telegdy, Istvan K.: *See—*
 Giampalmi, John J., Jr.; Telegdy, Istvan K.; and Wirth, Manfred, 3,689,211.
- Telemation, Inc.: *See—*
 Briggs, John A.; and Ward, Ronald C., 3,670,100.
 Pauly, Donald E., 3,670,181.
 Pauly, Donald E., 3,671,872.
- Telenite Company Limited: *See—*
 Nagakura, Mitsuo, 3,682,644.
- Telephon- und Telegraphen-Fabriks A.G.: *See—*
 Wenzel, Kurt, 3,675,086.
- Telephon- und Telegraphen-Fabriks Aktiengesellschaft Kapsch & Sonne, Firma: *See—*
 Karobath, Ernst; and Pultizer, Wolfgang, 3,701,689.
- Telephonic Equipment Corporation: *See—*
 Johnson, James W., 3,676,605.
- Telesco Brophey Limited: *See—*
 Bremshey, Fritz, 3,640,297.
 Buschmann, Hans, 3,670,749.
 Seitel, Heinz, 3,658,078.
 Weber, Heinz, 3,640,298.
 Weber, Heinz, 3,643,673.
 Weber, Heinz, 3,661,162.
 Weber, Heinz, 3,670,748.
 Weber, Heinz, 3,678,949.
 Weber, Heinz, 3,698,410.
 Weber, Heinz, 3,699,988.
 Weber, Heinz, 3,702,618.
 Weber, Heinz, 3,705,592.
 Weber, Heinz, 3,705,593.
- Teletype Corporation: *See—*
 Appel, Sherman P., 3,698,002.
 Babler, Egon S., 3,641,262.
 Berry, James M.; and Corpron, Gary P., 3,653,932.
 Cless, Gerhard; and De Boo, Jerome L., 3,641,583.
 Cless, Gerhard, 3,647,036.
 Cless, Gerhard, 3,688,035.
 Cless, Gerhard, 3,689,785.
 Dahl, David A., 3,670,940.
 Denley, Ronald S., 3,640,370.
 Dunlavy, Robert J., 3,689,936.
 Geis, David G., 3,640,118.
 Glasson, Jerry M., 3,632,875.
 Glasson, Jerry M., 3,651,415.
 Glorioso, Charles A., 3,689,163.
 Halla, Richard C., 3,704,353.
 Heneghan, Patrick J., 3,678,295.
 Heneghan, Patrick J., 3,691,548.
 Jack, Ronald H., 3,670,388.
 Leno, Theodore, 3,671,822.
 Mayer, William J., 3,665,795.
 McClelland, Walter B., 3,704,389.
 Metz, Jack L., 3,641,588.
 Metz, Jack L., 3,671,700.
 Olsen, Alf J., 3,655,145.
 Pack, Howard S., 3,656,181.
 Peterson, John L., 3,691,536.
 Scott, Richard D., 3,641,407.
 Seidlitz, Raymond R., 3,664,471.
 Stanevich, Anthony, 3,655,023.
 Suzuki, Kiyoshi, 3,666,069.
 Wallskog, Alan G., 3,696,204.
- Teletzke, Gerald H.; Knopp, Paul V.; and Erickson, Allen H., to Sterling Drug Inc. Heat treatment of sewage sludge. 3,697,417, 10-10-72, Cl. 210-10.000.
- Telex Computer Products, Inc.: *See—*
 Deck, Philip E., 3,648,912.
 Fort, Larry W.; and Marshall, Connie T., 3,697,884.
- Telex Corporation, The: *See—*
 Crafts, Robert L., 3,659,806.
 Kliewer, Donald L., 3,634,599.
 Kliewer, Donald L., 3,645,354.
 Teder, Harry, 3,633,705.
- Telex/Computer Products, Inc.: *See—*
 Ysbrand, Floyd R.; and Pembroke, Richard W., 3,684,147.
- Telfer, Dugald J.: *See—*
 Kercher, Robert L.; and Telfer, Dugald J., 3,653,796.
 Patterson, Gordon I.; and Telfer, Dugald J., 3,697,746.
- Telford, Bruce C.: *See—*
 Dicksbury, Alfred N.; and Telford, Bruce C., 3,681,205.
- Telkes, Maria; and Hahn, Henry, to American Standard, Inc. Time/temperature indicators. 3,695,903, 10-3-72, Cl. 99-192.0tt.
- Tell, Karl Gunnar: *See—*
 Siwersson, Olle Lennart; and Tell, Karl Gunnar, 3,685,638.
- Tell, Mayo B.; Kidd, Donald D.; Wickham, William T.; and Brown, Frank. Loom picker. 3,664,382, 5-23-72, Cl. 139-159.000.
- Tell, Peter Hans. Nozzle for alternative blowing or suction. 3,683,446, 8-15-72, Cl. 15-330.000.
- Tella, Ramiro: *See—*
 Egalon, Roger; and Tella, Ramiro, 3,644,216.
- Tellberg, Klas O., A.B.: *See—*
 Hedman, John Gunnar, 3,659,545.
- Teller, Alvin N., to Kinetic Technologies, Inc. Educational building toy modules with interior lights and mechanical connections acting as circuit closers. 3,696,548, 10-10-72, Cl. 46-25.000.
- Teller, Daniel M.: *See—*
 Douglas, George H.; Teller, Daniel M.; and Smith, Herchel, 3,644,440.
 Wendt, Gerhard R.; Ledig, Kurt W.; and Teller, Daniel M., 3,644,436.
- Teller, Laszlo: *See—*
 Bessko, Dezso; Gallai, Gyula; Farnady, Pal; Jozsa, Geza; Kovv, Margit; Teller, Laszlo; Suba, Andras; and Tisza, Sandor, 3,632,166.
- Teller, William M., to American Hydrotherm Corporation. Heating system. 3,701,473, 10-31-72, Cl. 237-8.00r.
- Tellerman, Edward M., to Continental Instruments Corporation. Surveillance camera with circuit for automatic activation. 3,664,247, 5-23-72, Cl. 95-11.004.
- Tellerman, Edward M.; and Deniega, Castillo, to Stop-Motion Devices Corporation. Defective latch needle detector and control network therefor. 3,690,127, 9-12-72, Cl. 66-157.000.
- Tellerman, Jacob: *See—*
 Stempler, Samuel; and Tellerman, Jacob, 3,699,421.
- Tellerman, Jacob, to Kollsman Instrument Corporation. Solid state display. 3,698,793, 10-17-72, Cl. 350-160.00r.
- Tellier, Clair W., Jr.: *See—*
 Nussbaum, Henry A.; Rehr, Henry W.; and Tellier, Clair W., Jr., 3,643,939.
- Tellier, Gilbert F., to United States of America, Air Force. Squirt cleaning poppet valve and seat. 3,703,908, 11-28-72, Cl. 137-238.000.
- Tellier, Jacques: *See—*
 Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean-Henry; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,641,102.
 Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean-Henry; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,678,091.
 Reulet, Philippe; Pfister, Alain; Tellier, Jacques; Blanc, Jean; Jorgensen, Kirsten Borre; and Bohlbro, Hans, 3,686,265.
- Tellier, Pierre; and Grimaud, Edouard, to Ugine Kuhlmann. Graft copolymer with a backbone containing tetrahydrobenzyl acrylate. 3,632,684, 1-4-72, Cl. 260-881.
- Tellot, Raymond Jean Bernard, to Etablissements Butin-Gillet. Method of and apparatus for the formation of tubular articles. 3,704,983, 12-5-72, Cl. 72-59.000.
- Tellson, Joseph W., to General Motors Corporation. Retaining ring and cage for unit assembly of tapered bearing components. 3,694,043, 9-26-72, Cl. 308-214.000.
- Teloh, David W.: *See—*
 Schroeder, Herbert M.; and Teloh, David W., 3,634,306.
- Telsco Industries: *See—*
 Felix, Webster, 3,637,139.
- Teltschik, Walter: *See—*
 Busch, Bernhard; Funk, Hans; and Teltschik, Walter, 3,689,586.
- T.E.M.I. Techniques Modernes Internationales: *See—*
 Dessailly, Rene, 3,689,882.
- Temin, Samuel C.: *See—*
 Pandell, Nestor W.; and Temin, Samuel C., 3,632,296.
- Temkin, Kenneth N.: *See—*
 Wall, Donald G.; and Temkin, Kenneth N., 3,701,618.

- Temme, Helmut, to Gewerkschaft Eisenhütte Westfalen. Scraper chain conveyors. 3,653,492, 4-4-72, Cl. 198-175.
- Temming, Leonardus Johannes: *See—*
 Van Der Schoot, Jelle; and Temming, Leonardus Johannes, 3,635,339.
- Temprcraft Tool & Mold, Inc.: *See—*
 Stanciu, Virgil V., 3,632,259.
 Stanciu, Virgil V., 3,698,640.
- Tempe, Andre. Method of disposing and reclaiming solid refuse. 3,653,871, 4-4-72, Cl. 71-8.
- Tempel, Albert: *See—*
 Akerstrom, Stig Hjalmar Johannes; Tempel, Albert; and Gullfeldt, Bengt Hjalmar, 3,646,210.
 Dolman, Hendrik; and Tempel, Albert, 3,632,771.
 Van der Kerk, Gerrit Johann Meine; and Tempel, Albert, 3,641,078.
- Tempel, George F., to Electronic Associates Inc. Stabilized direct coupled amplifier having improved frequency response and minimum intermodulation distortion. 3,678,402, 7-18-72, Cl. 330-9.000.
- Temper Corporation: *See—*
 Rode, John E., 3,659,814.
- Temperilli, Aldemio: *See—*
 Bernardi, Luigi; Bosio, Germano; and Temperilli, Aldemio, 3,647,655.
- Tempka, John A.: *See—*
 Peterson, James W.; and Tempka, John A., 3,696,210.
 Peterson, James W.; and Tempka, John A., 3,702,379.
- Temple, Chester S.; and Matthews, Jack R., to PPG Industries, Inc. Glass fiber reinforced thermoplastic article. 3,684,645, 8-15-72, Cl. 161-141.
- Temple, Ernest E.: *See—*
 Giebel, Joseph L.; and Temple, Ernest E., 3,693,862.
- Temple, Ernest E.; and Heckathorne, George E., to Mine Safety Appliances Company. Firing mechanism for explosively actuated tool. 3,653,139, 4-4-72, Cl. 42-1.
- Temple, Harry F.; and Thomas, Robert L., to Phillips Petroleum Company. Analysis of gaseous mixtures. 3,650,090, 3-21-72, Cl. 55-31.
- Temple, Hiram E., to Baker Perkins Inc. Bakery products handling apparatus. 3,677,393, 7-18-72, Cl. 198-85.000.
- Temple, John J. Reverse angle thread system for containers. 3,640,416, 2-8-72, Cl. 215-43.
- Temple, Philip A.: *See—*
 Drum, James R.; and Temple, Philip A., 3,705,754.
- Temple, Robert, to Mine Safety Appliances Company. Firing mechanism for explosively actuated tool. 3,665,802, 5-30-72, Cl. 89-1.
- Temple, Sidney J.: *See—*
 Drugmand, Lester D.; and Temple, Sidney J., 3,673,385.
 Drugmand, Lester D.; and Temple, Sidney J., 3,673,386.
- Temple, Stephen, to Durcam Research and Development Company Limited. Method of and apparatus for locating a bit of material in a pile fabric. 3,697,344, 10-10-72, Cl. 156-72.000.
- Temple University: *See—*
 Blank, Fritz; Day, William C.; Harmon, Sandra R.; Tonic, Pauline F.; and Yu, Ruey J., 3,674,645.
 Dori, Zvi; and Ziolo, Ronald F., 3,666,675.
 Elkin, Samuel; and Lieberman, Hillel, 3,681,363.
 Philips, Charles M.; and Sanmarco, Miguel E., 3,678,922.
- Templeborough Rolling Mills Limited: *See—*
 Ashton, George Walker; and Ashton, John Congreve, 3,640,109.
- Templeton, James D.: *See—*
 Jayne, Clarence V.; Ragep, Gazie K.; and Templeton, James D., 3,702,260.
- Templeton, John Glenn, to Rospatch Corporation. Unitary label assembly of interlinked labels. 3,674,614, 7-4-72, Cl. 161-39.000.
- Templeton, John Glenn; and Seitz, Calvin W., to Rospatch Corporation. Label handling system. 3,692,176, 9-19-72, Cl. 206-56.0ab.
- Templeton, Leroy N., Jr.; Grant, Paul J.; and Strassberg, Daniel D., to Honeywell Inc. Amplifier overload protection circuit. 3,633,093, 1-4-72, Cl. 323-9.
- Templeton, Richard A. Vehicle guard for highways. 3,658,300, 4-25-72, Cl. 256-13.100.
- Templeton, William B.: *See—*
 Berry, Jack; and Templeton, William B., 3,659,524.
- Templin Associates, Inc.: *See—*
 Templin, Gail H., 3,667,379.
- Templin, Gail H., to Templin Associates, Inc. Apparatus for prefabricating wood structures. 3,667,379, 6-6-72, Cl. 100-139.000.
- Templin, Jackson R.: *See—*
 Beehler, Larry A.; and Templin, Jackson R., 3,700,165.
 Huntzinger, Gerald O.; Hetzler, Lewis R.; and Templin, Jackson R., 3,646,301.
 Maddy, Sanford L.; and Templin, Jackson R., 3,646,286.
- Templin, Lee H., to Borg-Warner Corporation. Tone arm assembly. 3,649,031, 3-14-72, Cl. 274-23.
- Templin, Paul D.: *See—*
 Smith, Russell G.; Sonderman, William G.; and Templin, Paul D., 3,661,171.
- Templin, Robert J.; Johnson, Paul R.; and Falberg, Robert F., to General Motors Corporation. Exhaust emission control. 3,645,098, 2-29-72, Cl. 60-30.
- Tempmaster Corporation: *See—*
 Dean, Frank J., Jr.; and Thompson, Neil J., 3,687,055.
- Temptat Corporation: *See—*
 Martin, John E.; and Landry, B. Roger, 3,698,483.
- Tems, Adam, to Milross Controls, Inc. Integrated circuit carrier. 3,652,974, 3-28-72, Cl. 339-36.
- Ten Brook, Mildred: *See—*
 Ten Brook, Walter R., 3,680,751.
- Ten Brook, Walter R.; deceased (by Ten Brook, Mildred; administratrix). Bracelet for carrying medicinal pills. 3,680,751, 8-1-72, Cl. 224-28.00b.
- Tench, John D.: *See—*
 Jolly, Samuel E.; Kohn, Edward M.; and Tench, John D., 3,681,117.
- Tenckhoff, Heinrich A. M., to Battelle Development Corporation, mesne. Catheter insertion trocar. 3,653,388, 4-4-72, Cl. 128-347.
- Tenckhoff, Heinrich A. M.; and Shilipetar, George, to Battelle Development Corporation, The, mesne. Peritoneal dialysis delivery unit using home-prepared dialysate. 3,685,680, 8-22-72, Cl. 270-27.000.
- Tenco Brooke Bond Limited: *See—*
 Millin, David J., 3,649,297.
- Tenconi, Franco: *See—*
 Fusco, Raffaello; and Tenconi, Franco, 3,649,678.
- Tenconi, Riccardo. Device for a multi-feed circular knitting machine. 3,690,125, 9-12-72, Cl. 66-42.000.
- Tencza, Albert D.: *See—*
 Ogden, George D.; and Tencza, Albert D., 3,680,943.
- Tenelux Limited: *See—*
 Chandler, Edward A., 3,660,714.
- Tenenbaum, Mircea M., to Allied Control Company, Inc. Overvoltage-undervoltage sensor. 3,679,912, 7-25-72, Cl. 307-235.000.
- Tenenbaum, Mircea M., to Allied Control Company, Inc. Put time delay relay. 3,689,807, 9-5-72, Cl. 317-141.00s.
- Tenenbaum, Paul; and Seng, Paul J., to Strick Corporation. Convertible vehicle body and auxiliaries. 3,692,363, 9-19-72, Cl. 298-24.000.
- Tenenholtz, Robert, to Sage Laboratories, Inc. Balanced mixer. 3,706,042, 12-12-72, Cl. 325-446.000.
- Teng, James; and Rha, Chokyun, to Anheuser-Busch, Incorporated. Chewing gum. 3,666,492, 5-30-72, Cl. 99-135.
- Teng, Robert N., to McDonnell Douglas Corporation. Ballistic compression decelerator. 3,678,745, 7-25-72, Cl. 73-167.000.
- Tengler, Harvey N.: *See—*
 Hall, Garth O.; and Tengler, Harvey N., 3,632,077.
 Radke, Arthur O.; Hall, Garth O.; and Tengler, Harvey N., 3,702,179.
- Tengroth, Bjorn: *See—*
 Bognen, Hugl; Elfstrom, Gosta; and Tengroth, Bjorn, 3,679,901.
- Tenholtern, Gerhard: *See—*
 Krauss, Paul; Roethke, Ernst; and Tenholtern, Gerhard, 3,631,663.
- Tenkumo, Shohei: *See—*
 Ataka, Takeshi; Tenkumo, Shohei; Sekita, Minoru; and Nakaniwa, Yuji, 3,635,142.
- Tenkumo, Shohei; and Kuramoto, Yoshio, to Minolta Camera Co., Ltd. Automatically winding type photographic camera with a rotary shutter. 3,693,523, 9-26-72, Cl. 95-31.0ez.
- Tenkumo, Shohei, to Minolta Camera Kabushiki Kaisha. Shutter release control mechanism. 3,698,304, 10-17-72, Cl. 95-53.0eb.
- Tenna Corporation: *See—*
 Rose, Harry J., 3,636,276.
- Tolar, James H.: *See—*
 Tolar, James H., 3,640,538.
 Tolar, James H., 3,672,685.
- Tennant, Charles E., to American Air Filter Company, Inc. Folding table. 3,661,100, 5-9-72, Cl. 108-132.
- Tennant Company: *See—*
 Carlson, Alfred D.; and Kasper, Joseph G., 3,639,940.
 Kasper, Joseph G., 3,691,579.
 Kasper, Joseph G., 3,702,488.
- Tennant, Evalyn Hosterman: *See—*
 Stamm, Robert Franz; Brinen, Jacob Solomon; Tennant, Evalyn Hosterman; and Halverson, Frederick, 3,635,544.
- Tenne, Lave, to Hasselblad, Fritz Victor. Device in a photographic camera for setting the film speed value and transferring it to the exposure meter. 3,691,918, 9-19-72, Cl. 95-10.00c.
- Tenneco Chemicals, Inc.: *See—*
 Barch, John J., 3,639,618.
 Brook, John W.; and Hoch, Samuel, 3,647,748.
 Cox, Ernest H., 3,666,424.
 Deinet, Adolph J.; and Klein, David X., 3,641,158.
 Deinet, Adolph J., 3,683,067.
 Deinet, Adolph J., 3,683,089.
 Di Bella, Eugene P., 3,644,471.
 Di Bella, Eugene P., 3,673,257.

Di Bella, Eugene P., 3,692,850.
 Fath, Joseph; and Rosen, Marvin, 3,700,612.
 Ferstenberg, Charles, 3,659,981.
 Ferstenberg, Charles, 3,672,348.
 Fischer, Alfred; and Fraser, Irene A. E., 3,686,012.
 Fischer, Alfred; and Strawser, Terry M., 3,701,729.
 Fischer, Alfred, 3,705,852.
 Forrest, Norman, 3,632,842.
 Forrest, Norman, 3,655,497.
 Hill, Ira D.; Mikherjee, Barid B.; and Brown, Dale G., 3,678,172.
 Hoch, Samuel, 3,637,777.
 Hoch, Samuel, 3,642,846.
 Hoch, Samuel, 3,655,703.
 Minieri, Pasquale P., 3,637,736.
 Minieri, Pasquale P., 3,642,501.
 Minieri, Pasquale P., 3,677,738.
 Minieri, Pasquale Paul, 3,641,050.
 Pappadakis, Nicholas J., 3,668,058.
 Rumanowski, Edmund J., 3,637,851.
 Rumanowski, Edmund J., 3,661,552.
 Rumanowski, Edmund J., 3,697,658.
 Rumanowski, Edmund J., 3,706,548.
 Sidi, Henri, 3,649,670.
 Stanaback, Robert J.; and Maggio, Thomas E., 3,651,107.
 Walker, David G., 3,638,399.
 Walker, David G.; and Keyworth, Donald A., 3,647,843.
 Walker, David G.; and Keyworth, Donald A., 3,706,181.
 Wang, Wu Lan, 3,634,184.
 Winkler, Joseph, 3,632,533.
 Tenneco Inc.: See—
 Andres, John P., 3,651,888.
 Barosko, John M., 3,631,877.
 Du Bois, Bert, 3,680,660.
 DuBois, Bert, 3,655,010.
 Haren, Ralph J., 3,682,270.
 Hetherington, Theodore W., 3,704,995.
 Hopkins, John D.; McLaren, James C.; Johnson, Ronald A.; and Offer, Robert J., 3,681,898.
 Hubbell, Franklin R., III, 3,643,760.
 Hubbell, Franklin R., III, 3,654,764.
 Malkiewicz, Wladyslaw F., 3,685,616.
 Offer, Robert J.; and Samalon, Eugene J., 3,638,851.
 Rutt, Paul A., 3,685,615.
 Willett, Earl G., 3,655,011.
 Tenneco Inc., mesne: See—
 Balluff, Robert N., 3,658,042.
 Tenneco Oil Company: See—
 Gilchrist, Ralph E.; and Brown, Morton E., 3,660,649.
 Rowley, Kermit G.; and Barron, Richard H., 3,647,000.
 Rowley, Kermit G., 3,698,474.
 Tenelec, Inc.: See—
 Kurz, Rainer, 3,646,586.
 Tenner, Arnold J., to Monsanto Company. Blow molding. 3,697,632, 10-10-72, Cl. 264-40.
 Tenner, Oskar, to Gravicast Patentverwertungsgesellschaft m.b.H. Method of casting quiet melts. 3,700,025, 10-24-72, Cl. 164-120,000.
 Tenner, Oskar, to Fa. Gebauer & Lehrner. Apparatus for casting molten metal in bottom-pouring molds. 3,705,616, 12-12-72, Cl. 164-155,000.
 Tennerstedt, M. Richard: See—
 Fiore, Jack C.; and Tennerstedt, M. Richard, 3,704,424.
 Tennes, Charles J.: See—
 Borrevik, Alexander J.; and Tennes, Charles J., 3,701,040.
 Tennessee Valley Authority: See—
 Harvey, Herbert C., Jr., 3,674,219.
 Jones, Thomas M.; and Frazier, Alva W., 3,697,247.
 Jordan, John E., 3,703,364.
 Nix, Fred D., 3,676,101.
 Tenney, Frederick H.: See—
 Kopec, John C.; Schmitt, Henry O., Jr.; and Tenney, Frederick H., 3,699,892.
 Tenney, Horace M.: See—
 Mertzweiler, Joseph K.; and Tenney, Horace M., 3,677,969.
 Mertzweiler, Joseph K.; and Tenney, Horace M., 3,677,970.
 Tenney, Susan R.: See—
 Babson, Arthur L.; and Tenney, Susan R., 3,705,149.
 Tenney, William L. Two cycle engine resonance exhaust system. 3,665,712, 5-30-72, Cl. 60-314.
 Tenney, William L. Multiple RPM range tuned exhaust pipe and silencer for two-cycle engine. 3,703,937, 11-28-72, Cl. 181-36,00r.
 Tennis, Francis H., to Hydraulic Industries, Inc. Control valve and actuating lever assembly therefor. 3,677,281, 7-18-72, Cl. 137-270,000.
 Tennis Promotion, Inc.: See—
 Malhas, Farouk S., 3,653,660.
 Tennis Unlimited Incorporated: See—
 Rodwell, John; and Marsden, Harry, 3,645,370.
 Tenniswood, David M.: See—

Cork, Gordon H.; Tenniswood, David M.; and Kaptur, Robert E., 3,677,099.
 Tennstedt, Hans-Joachim: See—
 Mikoteit, Franz; and Tennstedt, Hans-Joachim, 3,645,762.
 Teno, Vincent N.: See—
 Lodrick, Lester B.; and Teno, Vincent N., 3,696,582.
 Tenpas, Emerson J., to Eriez Manufacturing Company. T-bar twister. 3,678,723, 7-25-72, Cl. 72-299,000.
 Tenpas, Emerson J., to Eriez Manufacturing Company. Forming machine for structural sections. 3,705,679, 12-12-72, Cl. 228-49,000.
 Tension Structures Co.: See—
 Huddle, Carl F., 3,640,296.
 Huddle, Carl F., 3,699,987.
 Tension Structures Inc.: See—
 Moss, Charles W., 3,636,676.
 Moss, Charles W., 3,675,380.
 Tentarelli, Kenneth D., to Bell Telephone Laboratories, Incorporated. Thermistor control circuit. 3,668,510, 6-6-72, Cl. 323-8,000.
 Tente-Rollen Gesellschaft mit beschränkter Haftung Compagnie, Firma: See—
 Stosberg, Herbert; Fleischmann, Horst; Reinhardt, Gunter; and Engels, Siegfried, 3,705,438.
 Teodorescu, Constantin: See—
 Coanda, Henri; and Teodorescu, Constantin, 3,685,614.
 Teodorescu, Dan, to Ministerul Industriei Constructoare de Masini. Ferroresonant amplifying servomotors. 3,633,083, 1-4-72, Cl. 318-225.
 Teodoru, Crizantemelor Aurel D.: See—
 Ionescu, Ieodor D.; Uta, Londra Gheorghe F.; and Teodoru, Crizantemelor Aurel D., 3,681,214.
 Teotino, Uberto; and Della Bella, Davide, to Whitefin Holding S.A. Diphenylcyclopropyl-methyl-amine. 3,646,146, 2-29-72, Cl. 260-570.5.
 Teotino, Uberto; and Della Bella, Davide, to Whitefin Holding S.A. Pyrrolaminoketone derivatives. 3,706,750, 12-19-72, Cl. 260-293,710.
 Teotino, Uberto M., to Whitefin Holding S.A. Antibacterial therapeutic composition containing thiamphenicol derivative. 3,651,235, 3-21-72, Cl. 424-311.
 Teotino, Uberto Maria; and Dellabella, Davide, to Zambon S.p.A. Thiamphenicol derivatives. 3,652,607, 3-28-72, Cl. 260-401.
 Teplitz, Alfred, to United States Steel Corporation. Balancing mechanism and method for continuous casting molds. 3,703,923, 11-28-72, Cl. 164-260,000.
 Teplyakov, Mikhail Mikhailovich: See—
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 Kishida, Yukichi; Terada, Atsutsuke; Takagi, Hiromu; and Kamioka, Toshiharu, 3,644,531.
 Kishida, Yukichi; Soma, Nobuo; Nakazawa, Junichi; Sato, Yoshio; Matsuda, Hidebumi; Terada, Atsutsuke; Watanabe, Taiichiro; Sugimura, Yukio; Miyamura, Toshihide; Kaneko, Masanao; and Watatani, Mitsuo, 3,704,294.
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 Matsumoto, Mikio; Terada, Kenji; and Matsunaga, Mitsuru, 3,646,613.
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 Teradyne Applied Systems, Inc.: See—
 Richman, Peter, 3,656,053.
 Teradyne, Inc.: See—
 Chamillard, George W.; and Winsor, David M., 3,667,104.
 Johnson, Lennart B., 3,680,038.
 Johnson, Lennart B., 3,704,394.
 Kern, Walter, 3,702,423.
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 Terai, Masaaki: See—
 Matsuda, Ryoichi; Kawashima, Isao; and Terai, Masaaki, 3,681,538.
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 Teramura, Hiroichi: See—
 Nakagome, Yukio; Teramura, Hiroichi; Fukata, Yasuo; and Ando, Sumitoshi, 3,668,328.
 Teranishi, Haruo: See—
 Ishikawa, Toshikatsu; and Teranishi, Haruo, 3,705,236.
 Teranishi, Katsuya: See—
 Hara, Takeshi; Nakao, Shoichi; and Teranishi, Katsuya, 3,658,166.
 Teranishi, Masayuki: See—
 Fujimoto, Yasuo; and Teranishi, Masayuki, 3,644,412.
 Fujimoto, Yasuo; Tatsukawa, Keizo; Teranishi, Masayuki; and Koiwa, Yoichi, 3,658,831.
 Fujimoto, Yasuo; Teranishi, Masayuki; and Tezuka, Toshihiko, 3,705,873.
 Teranishi, Takao: See—
 Hohsho, Yukio; Yamada, Koichiro; Oyama, Yoshishige; Teranishi, Takao; and Suzuki, Seikou, 3,669,423.
 Teranishi, Yuichi: See—
 Tominaga, Yoshio; Kawagoe, Hiroto; and Teranishi, Yuichi, 3,688,165.
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 Iijima, Hiroshi; Terasaka, Masaji; and Tokita, Osamu, 3,701,693.
 Terasaki, Fukunaga: See—
 Shiraiwa, Toshio; and Terasaki, Fukunaga, 3,663,310.
 Terasaki, Iwao: See—
 Fujimoto, Yoshihisa; Kimura, Yoshio; Terasaki, Iwao; and Kitago, Takanobu, 3,697,230.
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 Terasawa, Masaji: See—
 Iijima, Hiroshi; Terasawa, Masaji; Gotoh, Yutaro; and Tokita, Osamu, 3,703,418.
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 Nagata, Wataru; Terasawa, Tadao; and Aoki, Tsutomu, 3,661,999.
 Nagata, Wataru; Terasawa, Tadao; and Sugawara, Tsutomu, 3,683,091.
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 Itoh, Yohnosuke; Miki, Masataka; Nishiyama, Makoto; Uda, Yuhnosuke; and Terashima, Masaaki, 3,682,469.
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 Terashita, Takaaki: See—
 Kumai, Akira; and Terashita, Takaaki, 3,695,882.
 Terayama, Fusaji, to Morita Fire Pump Mfg. Co., Ltd. Device for preventing falling down of lifter of fire fighting ladder-equipped vehicle. 3,693,755, 9-26-72, Cl. 182-102,000.
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 Terbrack, William H.: See—
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 Terbruggen, Paul L.; and Caspari, Georg K., to Burroughs Corporation. Record sensing mechanism. 3,660,640, 5-2-72, Cl. 235-61,11.
 Terekhova, Vera Fedorovna: See—
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 Terkelsen, Bruce E.: See—
 Barrow, Robert B.; and Terkelsen, Bruce E., 3,633,648.
 Barrow, Robert B.; and Terkelsen, Bruce E., 3,706,338.
 Giamei, Anthony F.; and Terkelsen, Bruce E., 3,700,023.
 Terlecky, Boris S.: See—
 Randolph, Robert W.; and Terlecky, Boris S., 3,662,899.
 Terman, Lewis Madison, to International Business Machines Corporation. Three-phase dynamic shift register. 3,648,066, 3-7-72, Cl. 307-221.
 Termet, Pierre. Apparatus using the energy produced by the explosion of a machine gun cartridge (shell). 3,632,032, 1-4-72, Cl. 227-10.
 Termet, Pierre. Cartridge activated two part ram. 3,686,858, 8-29-72, Cl. 60-26,100.
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 Dijkhuizen, Willem; Termin, Erich; Bleh, Otto; and Morgenstern, Dieter, 3,673,159.
 Dijkhuizen, Willem; Termin, Erich; Bleh, Otto; and Morgenstern, Dieter, 3,674,716.
 Keddeimis, Heinrich; Lenz, Arnold; Bleh, Otto; and Termin, Erich, 3,682,828.
 Langenhoff, Ferdinand; Termin, Erich; Bleh, Otto; and Lenz, Arnold, 3,684,433.
 Lenz, Arnold; Bleh, Otto; and Termin, Erich, 3,657,361.
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Burton, John S.; Gilman, Samuel; Rothbart, Michael; and Whitney, Ronald L., 3,645,619.
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Appelman, Milo Don, 3,701,728.
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Javet, Alain Ferdinand, 3,695,509.
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Ford, Ralph E.; and Ternes, Donald J., 3,634,986.
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Wendler, Gerhard Hermann; and Minet, Gunther Heinz, 3,660,347.
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Quinn, James A.; Owen, William J.; and Terpstra, Garry, 3,702,569.
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Van Den Avooit, Pieter Marinus; and Terpstra, Lieuwe, 3,688,024.
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Morane, Bruno; Paoletti, Charles; and Terrasse, Gilles, 3,675,821.
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Richards, John F.; and Terrell, Walter L., Jr., 3,691,732.
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McLean, Peter; and Wilkins, John William, 3,647,319.
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Lentz, Tommy L.; and Terry, Alton L., 3,675,369.
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Horsewell, Henry George; and Terry, Arthur John, 3,693,369.
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Klavons, Uldis; Perun, William D.; Stoops, Denzel D.; and Terry, David M., 3,638,613.
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Spanel, Abram N.; and Terry, Roy P., Jr., 3,704,544.
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Graham, John W.; Kiel, Othar M.; Terry, William M.; and Sinclair, Albert R., 3,664,420.
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Bregi, Benjamin F.; and Tersch, Richard W., 3,635,062.
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- Terterian, Aram Aristagesovich: *See—*
Rutes, Viktor Savelievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballard, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, Anatoly Ivanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosochenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.
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Shimizu, Hiroshi, 3,662,262.
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Glass, Marvin I.; and Terzian, Rouben T., 3,699,710.
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Gattesco, Giovanni, 3,661,027.
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Kosziech, Karl-Heinz; and Teschner, Kurt, 3,697,024.
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Hamernik, Edward L.; and Kawamoto, Frank T., 3,643,871.
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Coffey, Charles R.; and Tesdahl, Thomas C., 3,700,013.
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- Crotty, Homer E.; Coffey, Charles R.; and Tesdahl, Thomas C., 3,666,679.
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Himi, Hitoshi; Shinmon, Yasuhiro; and Teshima, Tokuro, 3,679,852.
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McQuiston, William E.; and Tesi, Giorgio, 3,701,573.
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Teske, Fritz; Teske, Lothar; and Dreismann, Robert, 3,700,248.
- Tesla, narodni podnik: *See—*
Mack, Zdenek, 3,660,607.
- Mack, Zdenek, 3,681,648.
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Oroszian, Andrew; Sello, Stephen B.; and Tesoro, Giuliana C., 3,686,258.
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Fishman, Jerry Haskel; Henry, Jean Francois; and Tessore, Susanne, 3,645,860.
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Bellasio, Elvio; Testa, Emilio; and Maffii, Giulio, 3,644,361.
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MacGeorge, William D., 3,635,090.
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Perrella, Guido; and Genest, Robert, 3,651,585.
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- Testone, Anthony Q., to Testone Electrostatics Corporation. Ionized air projector. 3,643,128, 2-15-71, Cl. 317-4.
- Testone Electrostatics Corporation: *See—*
Testone, Anthony Q., 3,643,128.
- Testori, Mario: *See—*
Kemeny, Giulio; Gaboardi, Mario; Santini, Aldo; Testori, Mario; Reinhardt, Paul-Dietrich; Simoleit, Hartmut; and Walter, Ludwig, 3,652,217.
- Tetar, Claude R., to L'Electronique Appliquee. System for controlling deliveries of liquid products and the like. 3,688,085, 8-29-72, Cl. 235-61.60r.
- Teten, Alfred M.: *See—*
Geiger, Robert W.; Teten, Alfred M.; and Paterson, William G., 3,634,061.
- Tetenbaum, Marvin T.: *See—*
Kray, Raymond J.; Tetenbaum, Marvin T.; Wenner, Wilbert M.; and Barton, Oliver A., 3,639,326.
- Tetenbaum, Marvin T.; and Degginger, Edward R., to Allied Chemical Corporation. Process for the preparation of D,L-lysine. 3,637,838, 1-25-72, Cl. 260-534.
- Tetenbaum, Marvin T., to Allied Chemical Corporation. Aryl-substituted tetraketopiperazine monomers. 3,654,278, 4-4-72, Cl. 260-268.
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- Teter, Harold P. Baseball diamond layout device. 3,668,781, 6-13-72, Cl. 33-1.000.
- Teti, John, to Du Pont de Nemours, E. I., and Company. Process for polymer recovery. 3,696,058, 10-3-72, Cl. 260-2.300.
- Tetra Pak International AB: *See—*
Hansson, Jan Ingvar, 3,643,679.
- Nedstedt, Gert J. V., 3,658,238.
- Rausing, Hans Anders, 3,650,458.
- Wettlen, Roland; Melle, Hans-George; and Palsson, Jan, 3,693,640.
- Tetra Tech, Inc.: *See—*
Wells, Willard H., 3,685,051.
- Winslow, John S., 3,646,863.
- Tetradyne Corporation: *See—*
Mueller, Frederick N., 3,659,713.
- Tetradyne Corporation, mesne: *See—*
Mueller, Frederick N., 3,705,710.
- Tetrault, Leonard P., to Aerodyne Controls Corporation. Acceleration-responsive switch. 3,632,920, 1-4-72, Cl. 200-61.53.
- Tetrick, Elton E., to Sperry Rand Corporation. Snap action switch. 3,697,711, 10-10-72, Cl. 200-67.0db.
- Tetrick, John D.: *See—*
Zellmer, August R.; and Tetrick, John D., 3,648,432.
- Tetsuhiro, Kusunose: *See—*
Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Tetsuhiro, Kusunose; Isumaki, Tatsuchi; and Ota, Masami, 3,700,662.
- Tetsuya, Miyake: *See—*
Seko, Maomi; Yomiyama, Akira; Ogawa, Shinsaku; Tetsuya, Miyake; Ryozo, Komori; and Norito, Ogawa, 3,682,792.
- Tetyak, John J.: *See—*
Jenkins, Ray T.; Degenfelder, Roy C.; Bieri, Leonard, Jr.; and Tetyak, John J., 3,645,272.
- Teubler, Adolf; and Eversheim, Paul, to Vereinigte Leichtmetall-Werke GmbH. Aluminum offset printing plate. 3,672,878, 6-27-72, Cl. 75-141.000.
- Teufel, Helmut: *See—*
Seeger, Ernst; Engel, Wolfhard; Teufel, Helmut; Machleidt, Hans; Ueberberg, Heinrich; and Ihling, Hanns, 3,642,801.
- Teufel, Wilhelm Julius: *See—*
Pahl, Jan, 3,649,968.
- Teumac, Fred Norman; and Harriman, Lester W., to Dow Chemical Company, The. Cleaning method. 3,668,009, 6-6-72, Cl. 134-2.
- Teurnier, Roger, to CIT-Compagnie Industrielle des Telecommunications. Retransmitting apparatus for converting interrupted telegraphic modulated signals into telegraphic signals without interruptions. 3,643,026, 2-15-72, Cl. 178-70.
- Teurnier, Roger; and Rousseau, Claude, to CIT-Compagnie Industrielle des Telecommunications. Line equipment device for telegraph lines. 3,644,672, 2-22-72, Cl. 178-69.
- Teurnier, Roger, to C.I.T.-Compagnie Industrielle des Telecommunications. Apparatus for connecting transmission channels. 3,647,966, 3-7-72, Cl. 178-70.
- Teurnier, Roger, to C.I.T.-Compagnie Industrielle des Telecommunications. Device for evaluating the difference between two variable inputs. 3,693,167, 9-19-72, Cl. 340-172.500.
- Teuscher, Leon A.: *See—*
Trubisky, Michael P.; Teuscher, Leon A.; Palermi, Frank M.; and Levine, Charles J., 3,634,134.
- Teuscher, Leon A.; Trubisky, Michael P.; Palermi, Frank M.; and Levine, Charles J., to Xerox Corporation. Vitreous selenium alloy matrix containing isolated particles and particle networks of resin. 3,697,265, 10-10-72, Cl. 96-1.500.
- Teuschler, Hans-Joachim: *See—*
Forste, Walter; Teuschler, Hans-Joachim; and Schreiber, Joachim, 3,688,142.
- Teutsch, George J.; and Shapiro, Elliot L., to Schering Corporation. Process for preparation of 6-azido-4,6-bis-dehydro-steroids. 3,665,017, 5-23-72, Cl. 260-349.
- Teutsch, John H. Automobile wheel theft prevention device. 3,668,952, 6-13-72, Cl. 81-125.000.
- Teuwen, Heinz: *See—*
Hauser, Paul; Pfister, Walter; Stucki, Hans Ulrich; Teuwen, Heinz; Fuhring, Heinrich; and Sieber, Johannes Helmut, 3,665,734.
- Teves, Alfred, G.m.b.H.: *See—*
Klein, Hans-Christof; and Werner, Gunther, 3,649,871.
- Klein, Hans-Christof, 3,706,479.
- Marschall, Helmut; Kammermayer, Wolfgang; Beller, Hans Albert; Hahn, Heinz; and Belart, Juan, 3,669,226.
- Talebi, Abotaleb; and Schlitz, Erwin, 3,656,815.
- Teves, Alfred, Maschinen-und Armaturenfabrik KG: *See—*
Klein, Hans-Christof; Beller, Hans; and Schrader, Gert, 3,688,255.
- Tew, Walter Hosey, Jr., to General Electric Company. Symmetrical function generator. 3,648,037, 3-7-72, Cl. 235-197.
- Tew, Walter Hosey, Jr., to General Electric Company. Digital correlator for calculating figure of merit of communications transmission system. 3,689,884, 9-5-72, Cl. 340-146.10e.
- Tewksbury, Floyd L., Jr.; and Demler, Walter R., to Allied Chemical Corporation. Process for preparing 2-[2-(arylamino)-vinyl]-1-(lower alkyl)-3-H-indolium salt dyes. 3,673,178, 6-27-72, Cl. 260-240.800.
- Tewksbury, John M.; Jackson, Harold W.; and Powell, Thomas H., Jr., to Bendix Corporation, The. Low power frequency synthesizer with two phase locking loops. 3,660,781, 5-2-72, Cl. 331-1.
- Tewsbury, Stuart Keene, to Bell Telephone Laboratories, Incorporated. Discrete adaptive delta modulator. 3,706,944, 12-19-72, Cl. 332-11.00d.

Tewsley, William: See—

Halkyard, Harold Lees; Bliss-Hill, Herbert Brian; and Tewsley, William, 3,693,168.

Texaco Development Corporation: See—

Brent, Albert; and Teichmann, Charles F., 3,687,646.

Goldsby, Arthur R., 3,673,271.

Goldsby, Arthur R., 3,683,041.

Goldsby, Arthur R., 3,691,252.

Marion, Charles P.; and Reynolds, Blake, 3,705,108.

Paul, Peter L.; and Armistead, Fontaine C., 3,683,629.

Ruble, Raymond J., 3,663,648.

Slichter, Charles P., 3,667,035.

Smetana, Richard D., 3,637,768.

Teichmann, Charles F.; and Brent, Albert, 3,671,209.

Texaco Inc.: See—

Allen, Joseph C.; and Bauer, Charles L., 3,638,727.

Armistead, Fontaine C., 3,691,363.

Ashton, William B.; and Morris, Herbert C., 3,691,067.

Barnes, Vernon M., Jr., 3,661,138.

Barnes, Vernon M., Jr.; and White, Rudolph C., 3,684,256.

Bialy, Jerzy J.; Siegart, William R.; Blackley, William D.; and

Chafetz, Harry, 3,652,238.

Bialy, Jerzy J.; and Dorn, Peter, 3,652,241.

Bialy, Jerzy J.; and Eckert, George W., 3,658,496.

Bigdon, Orville W.; Edwards, Robert S.; and Powers, William J.,

III, 3,686,243.

Binkley, Frederick H., Jr.; Lanier, Eldred S., Jr.; and Barril-

leaux, Robert G., 3,680,389.

Brown, William F.; and Goetichius, Ronald J., 3,688,088.

Chafetz, Harry; Blackley, William D.; and Kreuz, Kenneth L.,

3,649,665.

Chafetz, Harry; Canning, William H.; and Morisette, Bertrand

G., 3,691,076.

Clauset, Alvin O., Jr.; Hoyt, Donald L.; and Hall, Russell W.,

Jr., 3,684,872.

Cole, Edward L.; and Hess, Howard V., 3,642,620.

Cole, Edward L.; and Hess, Howard V., 3,696,021.

Cole, Edward L.; Hess, Howard V.; and Pomatti, Renato C.,

3,707,056.

Coleman, Richard L.; Cummins, Billy H.; and Ashton, William

B., 3,684,684.

Coons, William R., Jr.; Nelson, Gerald V.; and Wray, Glenn C.,

3,686,095.

Cooper, David E., 3,649,559.

Crawford, Wheeler C.; and Patterson, Jonn A., 3,657,364.

Crookshank, Fred T., 3,647,693.

Cross, Edward A., 3,647,690.

Cummins, Billy H., 3,652,448.

Cummins, Billy H., 3,660,273.

Cummins, Billy H.; Ashton, William B.; Coleman, Richard L.;

and Odell, Norman R., 3,702,817.

Curtice, Beverly A.; and Harnsberger, Bobby G., 3,646,998.

Cusano, Carmen M., 3,632,683.

Cusano, Carmen M.; Yamamoto, Roy I.; and Rubin, Isaac D.,

3,691,261.

Dancy, Julian H.; and Morrison, John A., 3,694,135.

Davis, Flourian R., Jr.; and Dewey, Ernest A., 3,657,864.

Day, Frederic F.; Emery, George E.; and Dadura, James G.,

3,706,632.

Dille, Roger M.; and Schlinger, Warren G., 3,643,875.

Dorn, Peter; and Dille, Kenneth L., 3,652,240.

Douglass, Jack H., 3,635,822.

Dowling, Donald J.; and Atwood, George R., 3,644,823.

Dowling, Donald J.; and Atwood, George R., 3,657,636.

Durkin, Joseph A.; Estes, John H.; and Lafferty, William L., Jr.,

3,652,709.

Eckert, George W., 3,667,152.

Eckert, George W., 3,707,360.

Estes, John H.; Kravitz, Stanley; and Suggitt, Robert M.,

3,702,874.

Flournoy, Norman E.; Dancy, Julian H.; and Trippet, Raymond,

3,656,692.

Flournoy, Norman E.; Morrison, John A.; Dancy, Julian H.; and

Trippet, Raymond, 3,664,804.

Flournoy, Norman E., 3,667,894.

Flournoy, Norman E.; Eisenlohr, Gerald M.; Black, Frank R.,

Jr.; and Schultz, James E., 3,683,846.

Flournoy, Norman E.; Dancy, Julian H.; and Trippet, Raymond,

3,694,136.

Flournoy, Norman E.; and McPeak, Earl W., Jr., 3,642,210.

Foucher, Walter D., Jr.; and Norman, Thomas W., 3,681,260.

Francis, James O.; and Goldsby, Arthur R., 3,636,130.

Franz, William F.; and Hess, Howard V., 3,657,112.

Franz, William F.; Hess, Howard V.; and Cole, Edward L.,

3,705,077.

Godfrey, Arthur William; Dorn, Peter; and Crawford, Wheeler

C., 3,687,852.

Graham, William J., 3,649,035.

Greiner, Leonard; and Courtney, Welby G., 3,705,495.

Harnsberger, Bobby G., 3,634,302.

Harnsberger, Bobby G., 3,642,508.

Harnsberger, Bobby G., 3,644,266.

Harnsberger, Bobby G.; and Payton, Joy T., 3,654,990.

Harnsberger, Bobby G.; and Payton, Joy T., 3,654,991.

Harnsberger, Bobby G.; and Payton, Joy T., 3,654,992.

Harr, Stephen J., 3,640,858.

Hellmuth, Walter W., 3,679,584.

Herbstman, Sheldon; and Peck, Reese A., 3,684,685.

Herbstman, Sheldon; and Peck, Reese A., 3,684,686.

Hess, Howard V.; and Cole, Edward L., 3,642,458.

Hess, Howard V.; Wilson, Raymond F.; and Cole, Edward L.,

3,632,405.

Hess, Howard V.; and Cole, Edward L., 3,671,403.

Hess, Howard V.; and Guptill, Frank E., Jr., 3,685,581.

Higgs, Kenneth O., 3,668,677.

Howlett, Donald L., 3,685,046.

Howlett, Donald L., 3,688,250.

Hoyt, Donald L., 3,672,448.

Hubby, Laurence M., 3,705,532.

Hudson, John L.; and Towell, Billy H., 3,659,256.

Kablau, Mahmoud S.; and Kolaian, Jack H., 3,642,622.

Kablau, Mahmoud S., 3,644,480.

Kablau, Mahmoud S.; and Kolaian, Jack H., 3,657,122.

Kampfer, John G., 3,689,876.

King, Robert G., 3,648,540.

Knowles, Edwin C.; McCoy, Frederic C.; and Odell, Norman R.,

3,660,183.

Kolaian, Jack H., 3,637,492.

Kolaian, Jack H., 3,637,493.

Kolaian, Jack H., 3,640,825.

Kolaian, Jack H., 3,682,820.

Kolaian, Jack H., 3,682,821.

Kravitz, Stanley; Estes, John H.; and Suggitt, Robert M.,

3,692,694.

Kravitz, Stanley; Estes, John H.; and Suggitt, Robert M.,

3,692,696.

Kravitz, Stanley; Estes, John H.; and Suggitt, Robert M.,

3,692,697.

Kuntshik, Lawrence F.; and Edwards, Robert S., 3,683,024.

Lachowicz, Donald R.; Simmons, Todd S.; and Kreuz, Kenneth

L., 3,657,349.

Langford, Obie M., 3,657,536.

Langley, Thomas W.; and Cloud, Robert A., 3,636,986.

Larkin, John M., 3,636,056.

Larkin, John M.; and Chafetz, Harry, 3,661,950.

Leech, Okie R.; and Dewey, Ernest A., 3,695,011.

Lewis, Ralph M.; Lewis, Charles T., Jr.; Tupper, George B.; and

Popken, Gary D., 3,652,708.

Loffbourrow, Robert J., 3,673,398.

Loffbourrow, Robert J., 3,671,931.

Love, Doris, 3,657,124.

Maddox, Jim, Jr.; and Schoen, William, 3,687,847.

Mather, William B., Jr.; and Kerr, Edwin R., 3,692,646.

Mayer, Edward A., 3,688,813.

Mayer, Edward A., 3,704,732.

McCoy, David R., 3,657,295.

McCoy, Drew E.; Gilmer, William N.; and Johnston, Edward C.,

3,692,668.

McCoy, Frederic C.; and Swanson, Carl Loyal W., 3,681,348.

McMahon, Matthew A., 3,655,769.

Michelson, Malvin J.; and Doyle, William P., 3,679,680.

Moreland, Sam L., Jr. (said Moreland assor. to), 3,666,999.

Morris, Herbert C., 3,663,430.

Morris, Herbert C.; and Dorn, Peter, 3,676,089.

Mott, George E., 3,643,446.

Mott, George E., 3,653,219.

Mott, George E., 3,656,307.

Mott, George E., 3,667,239.

Mott, George E.; and Ziober, Johnnie J., 3,685,300.

Mott, George E., 3,685,306.

Mott, George F.; and Ziober, Johnnie J., 3,670,507.

Muenger, James R., 3,666,423.

Muenger, James R., 3,666,682.

Nelson, Gerald V.; Coons, William R., Jr.; and Wray, Glenn C.,

3,691,152.

Nestle, Alfred C., 3,687,608.

Newman, Stanley R.; Von Allmen, Ronald W.; Dille, Kenneth

L.; and Vermillion, Herbert E., 3,704,109.

Nolting, Jerry L.; and Rouse, Alan D., 3,646,802.

O'Keefe, William H.; Colvert James H.; Nelson, Gerald V.; and

Youngblood, Douglas J., 3,668,114.

Paap, Hans J.; Pitts, Robert W.; and Mueller, Allen H.,

3,681,601.

Parker, Levi C.; and Senn, Charles A., III, 3,662,018.

Parker, Levi C.; and Robertson, Odes B., 3,668,112.

Parker, Levi Christy; Cooper, Thomas Allen; and Meadows,

James Lawson, 3,691,246.

Patel, Jitendra A.; Herbstman, Sheldon; Peck, Reese A.; and

Wilson, Raymond F., 3,668,117.

Patmore, Edwin L.; Siegart, William R.; and Chafetz, Harry,

3,658,874.

LIST OF PATENTEEES

1925

Patmore, Edwin L.; Siegart, William R.; and Chafetz, Harry,

3,689,539.

Patmore, Edwin L., 3,694,494.

Patmore, Edwin L., 3,694,496.

Peck, Reese A.; and Wilson, Raymond F., 3,671,421.

Pogonowski, Ivo C.; Carmichael, Paul D.; and Griswold, Richard

H., 3,636,717.

Pogonowski, Ivo C., 3,638,436.

Pogonowski, Ivo C., 3,643,447.

Pogonowski, Ivo C.; and Carmichael, Paul D., 3,654,951.

Pogonowski, Ivo C., 3,693,801.

Pogonowski, Ivo C.; and Carmichael Paul D., 3,695,047.

Pomatti, Renato C., 3,701,750.

Randall, Newton P.; and Lewis, Brian J., 3,661,139.

Reinhard, Russell R.; and Blackley, William D., 3,644,449.

Roberts, Eric A., 3,681,657.

Robertson, Odes B.; Cooper, Thomas A.; and Moorer, Henry

D., 3,642,611.

Robin, Allen M.; and Tassoney, Joseph P., 3,652,454.

Rueping, Calvin F.; and Daniel, Robert T., 3,637,822.

Ruidisch, Louis E., 3,649,136.

Rundell, Herbert A., 3,643,504.

Saadeh, Fuad T., 3,666,013.

Saines, George S.; and Kravitz, Stanley, 3,652,706.

Saines, George S., 3,652,707.

Sample, Thomas E., Jr.; and Tate, Jack F., 3,689,319.

Schlicht, Raymond C.; Eckert, George W.; and Von Allmen,

Ronald W., 3,704,107.

Schlicht, Raymond C., 3,702,824.

Schlinger, Warren G.; and Kaufman, Harold C., 3,673,080.

Schlinger, Warren G.; Slater, William L.; and Dille, Roger M.,

3,694,373.

Schoen, William; and Landau, Leo, 3,682,990.

Schwager, Irving; Leak, Robert J.; and Cole, Edward L.,

3,671,591.

Sequeira, Avilino, Jr.; Jolly, James P.; and Rea, William E.,

3,661,772.

Shively, Jesse H.; and Archer, Edward D., 3,658,696.

Slater, William L., 3,639,261.

Smetana, Richard D.; Chafetz, Harry; Arkell, Alfred; and Mc-

Mahon, Matthew A., 3,642,831.

Smetana, Richard D., 3,646,217.

Smetana, Richard D.; and Duranleau, Roger G., 3,646,226.

Smetana, Richard D., 3,657,251.

Smetana, Richard Denis; Chafetz, Harry; and Arkell, Alfred,

3,642,832.

Smith, Randlow, 3,660,046.

Stanley, Maurice E., 3,666,656.

Suggitt, Robert M.; Estes, John H.; and Kravitz, Stanley,

3,646,152.

Suggitt, Robert M.; and Estes, John H., 3,663,454.

Suggitt, Robert M.; Kravitz, Stanley; and Estes, John H.,

3,663,636.

Suggitt, Robert M.; Estes, John H.; and Kravitz, Stanley,

3,689,434.

Suggitt, Robert M.; Estes, John H.; and Kravitz, Stanley,

3,692,695.

Sung, Rodney L.; Dille, Kenneth L.; and Newman, Stanley R.,

3,658,497.

Sweeney, William M.; and Bialy, Jerzy J., 3,647,404.

Sweeney, William M.; Bialy, Jerzy J.; and Dille, Kenneth L.,

3,652,239.

Sweeney, William M.; and Alexander, David Lee, 3,675,671.

Sweeney, William M., 3,681,302.

Tanner, Harley L., 3,637,038.

Tate, Jack F., 3,682,831.

Tate, Jack F., 3,704,751.

Teague, Loy P., 3,693,733.

Tuggle, Ray; Graves, Richard H.; and De Rouen, Ray J.,

3,638,796.

Tyson, Thomas L.; and Craze, Edward G., Jr., 3,662,736.

Van Stavern, Merle H.; Moorer, Henry D.; Miller, Gordon H.;

and Gunn, Kenneth M., 3,685,653.

Vermillion, Herbert E.; and O'Loughlin, James J., 3,672,852.

Waldbillig, James O.; Wiley, Morris A.; Rambo, Marvin L.; and

Millendorf, Alfred J., 3,673,090.

White, Rudolph C.; and Thatcher, Judith G., 3,692,864.

White, William D., 3,666,932.

Wiley, Morris

Graffeo, Joseph Victor, Jr.; Mason, Bertran W., Jr.; and Wells, Wallace Ogden, 3,664,948.
 Gray, Foster L., 3,658,597.
 Grenier, Aime J., 3,660,719.
 Gruczelak, Norman P.; and Pierce, Joe T., 3,648,264.
 Haefling, James F.; and Meyer, Lawrence L., 3,666,913.
 Hair, George D.; and Kincaid, James U., 3,673,331.
 Hall, Lou H., 3,698,071.
 Hanley, Robert F., 3,707,359.
 Happ, Marvin B.; and Harper, James G., 3,684,464.
 Harp, Edgar E., 3,638,050.
 Harrison, James Reneau; and Gilpin, James Wayne, 3,635,683.
 Hayes, William F., 3,643,075.
 Head, Claude D., III, 3,705,416.
 Henderson, Harold B., 3,704,764.
 Henderson, Harold Bruce, 3,632,870.
 Hentzschel, Hanspeter P. K., 3,645,785.
 Hill, John W.; and Satterwhite, Charles L., 3,653,071.
 Hill, Lorimer K., 3,649,926.
 Hirsbrunner, Hans G.; and McBride, Lyle E., Jr., 3,644,864.
 Holton, William C., 3,678,400.
 Holton, William C., 3,683,337.
 Hughes, John M.; Lehnhardt, Stanley E.; and Lochridge, Byron C., 3,646,509.
 Hyltin, Tom M.; Kilby, Jack S.; Luecke, Gerald; and Toombs, Harold D., 3,698,082.
 Isett, Donald D., 3,644,937.
 Johnson, Clair A., 3,680,199.
 Johnson, Clair Allen, 3,657,805.
 Johnson, Rowland; and Mehal, Edward W., 3,660,312.
 Johnston, Roy C., 3,684,050.
 Jones, Derrick; and Lu, Sun, 3,690,745.
 Jones, William Stanley; and Hartmann, Clinton S., 3,675,054.
 Jost, Ernest M., 3,638,120.
 Kay, David Blair, 3,684,980.
 Kendall, Don Leslie, 3,674,995.
 Kilby, Jack S., 3,643,232.
 Kilby, Jack S.; and Van Tassel, James H., 3,688,396.
 Kilby, Jack S.; and Van Tassel, James H., 3,696,411.
 Kilby, Jack St. Clair, 3,643,138.
 Kilner, Olive H., 3,697,863.
 Kinstley, Warren O.; and Sivertsen, David R., 3,704,216.
 Kourtesis, John G.; and Marcoux, Leo, 3,676,211.
 Kril, Russell S., 3,689,891.
 Langlais, Rene N., 3,654,115.
 Lu, Sun, 3,656,849.
 Marcoux, Leo, 3,646,315.
 Matzen, Walter T.; and Spence, Hilton Wayne, 3,668,407.
 McBride, Lyle E., Jr., 3,643,142.
 McBride, Lyle E., Jr.; and Pimentel, Daniel R., 3,663,876.
 McMahon, William R.; and Ramsey, Thomas H., Jr., 3,634,203.
 Merryman, Jerry Dale, 3,648,097.
 Meyer, John V., 3,673,121.
 Meyer, John V., 3,689,736.
 Miller, George A., 3,667,991.
 Mize, Jack P., 3,689,243.
 Mize, Jack P., 3,691,406.
 Moltzan, Herbert J.; and Walker, Jack, 3,642,521.
 Moltzan, Herbert J., 3,698,936.
 Obenhaus, Robert E., 3,683,196.
 Obenhaus, Robert E., 3,702,418.
 Padovani, Francois A.; and Sumner, George G., 3,634,692.
 Paluck, Robert J., 3,706,975.
 Parker, Sidney Glenn, 3,634,044.
 Pearson, Samuel Reader, 3,673,439.
 Pearson, Samuel Reader, 3,704,451.
 Perry, Ralph S., 3,688,287.
 Phipps, Larry K., 3,638,919.
 Pierini, John M.; Sarazen, John C.; and Larsen, Reidar G., 3,689,865.
 Pizante, Jack H., 3,691,529.
 Pritchard, John P., Jr.; and Schroen, Walter H., 3,673,071.
 Proebsting, Robert J., 3,643,254.
 Proebsting, Robert J., 3,657,560.
 Proebsting, Robert J., 3,702,985.
 Purdes, Andrew J.; and Jost, Ernest M., 3,642,527.
 Redwanz, James O., 3,662,230.
 Redwine, Donald J.; and Worstell, Earl M., Jr., 3,649,843.
 Reedy, Carl D., Jr., 3,656,995.
 Reid, Lee R.; and Williams, Charles Sumner, 3,668,406.
 Reynolds, Richard A., 3,671,313.
 Rice, Stanley B., Jr., 3,647,534.
 Risk, Jerry A., 3,688,060.
 Roques, Rodney A.; and Gray, Foster L., 3,644,607.
 Rutter, Carlton G.; and Maione, Joseph R., 3,650,455.
 Rutter, Carlton G.; Barry, Richard F.; and McLennan, Frank J., 3,707,617.
 Santala, Teuvo J., 3,659,528.
 Santala, Teuvo J.; and Hirsbrunner, Hans G., 3,701,654.
 Scalise, Stanley J., 3,683,296.
 Shaw, Don W., 3,635,771.
 Shaw, Patrick W., 3,653,898.
 Shaw, Richard F., 3,644,755.
 Shortes, Samuel R., 3,639,138.
 Sloan, Benjamin Johnston, Jr.; Martin, Billy M.; Clevenger, Loyd H.; and Dunn, Roger S., 3,659,160.
 Squiers, David J., 3,644,075.
 Stehlin, Robert A., 3,697,337.
 Taylor, Fredrick J., 3,700,866.
 Taylor, Fredrick James; and Choate, William C., 3,702,986.
 Thomas, Seth R.; and Clarke, John F., 3,646,591.
 Tolar, Neal Jay, 3,689,993.
 Ty, Henry; and Luerken, Joseph, 3,704,179.
 Vendelin, George D.; and Webster, Roger R., 3,636,420.
 Vezza, Hamlet D., 3,654,798.
 Wakefield, Gene F.; Reedy, Carl D., Jr.; and Bloom, John A., 3,637,320.
 Walkow, Arnold M., 3,632,969.
 Walkow, Arnold M.; and Canion, Joseph R., 3,632,970.
 Ward, Robert W., 3,696,309.
 Waseleski, Joseph W., Jr.; and Charnley, Ralph E., 3,646,494.
 Waters, Warren P.; and Lovelace, Byron K., 3,651,384.
 Weber, Roger L., 3,670,406.
 Wells, Wallace Ogden, 3,638,927.
 Wilcox, Russell E., 3,671,813.
 Williams, Charles Sumner, 3,659,919.
 Wilson, Oran W., 3,674,712.
 Texas Instruments, Incorporated, *mesne: See—*
 Adler, Alan J., 3,643,018.
 Texas Inventment Builders Co.: *See—*
 Ragland, Douglas, 3,673,946.
 Texas Iron Works, Inc.: *See—*
 Braddock, Britt O.; Lindsey, Hiram E., Jr.; and McKiernan, Charles J., 3,640,341.
 Texas Oil Electric Co.: *See—*
 Barbee, Charles L.; Williams, Harlan D.; and Stracener, James R., 3,668,682.
 Texas-U.S. Chemical Company: *See—*
 Bodnar, Stephen John; McHargue, Chuck Linwell; and Anglin, Larn Carnell, Jr., 3,642,759.
 Textitron, Inc.: *See—*
 Mason, Richard K., 3,643,699.
 Texpatent GmbH: *See—*
 Fecker, Josef, 3,636,730.
 Textilana Corporation: *See—*
 Ernst, Robert, 3,647,868.
 Textilausruestungs-Gesellschaft Schroers & Co.: *See—*
 Takriti, Nassir; Quoos, Kurt; Leifeld, Ferdinand; and Appenzeller, Valentin, 3,683,649.
 Textile Machinery Company, Inc.: *See—*
 Bock, Elmer E., 3,690,586.
 Textile Research Institute: *See—*
 Miller, Bernard; Lambert, Harold; and Meiser, Charles H., Jr., 3,667,277.
 Textile Rubber & Chemical Company, Inc.: *See—*
 Terry, Claude E., 3,705,834.
 Terry, Claude Edward, 3,700,515.
 Textile Technology, Inc.: *See—*
 Durr, Larry L.; and Clay, Byron Jan, 3,692,467.
 Textiles, Inc.: *See—*
 Fowler, Donald W., 3,669,046.
 textilrberberand chalcopan, Inc.: 370,583,412, Terr, clad.
 Rockart, Gal, Cl.
 Textol Systems, Inc.: *See—*
 Zaruba, Wenzel, 3,638,504.
 Zaruba, Wenzel; and Sehnal, Jan, 3,673,874.
 Textoris, Melvin A., to General Fireproofing Company, The. Height adjustment mechanism for swivel chairs. 3,642,244, 2-15-72, Cl. 248-406.
 Textoris, Melvin A., to General Fireproofing Company, The. Chair base. 3,705,704, 12-12-72, Cl. 248-188.700.
 Textron, Inc.: *See—*
 Balke, Rodney W., 3,635,427.
 Balke, Rodney W.; and Kidd, David L., 3,635,429.
 Balke, Rodney Worth; Lynn, Robert Reed; and Wernicke, Rodney Keith, 3,698,663.
 Baxter, David W., Jr., 3,669,408.
 Bert, Stephen F., 3,678,544.
 Biggs, Carl E., 3,652,917.
 Black, Daniel A.; Ingersoll, Albert A.; York, Ira Bill Lee; and Jones, David O., 3,667,340.
 Boehm, Kurt B.; Foster, Leslie W.; and Tweet, Ole E., 3,688,856.
 Bradlee, Charles R., 3,683,665.
 Brengman, Andrew J.; and Kraxno, Maxwell R., 3,662,171.
 Brindley, Hanby S.; Buyers, John A., Jr.; Gerard, Turpin; and McClung, John S., Jr., 3,653,257.
 Burk, Charles R., 3,696,483.
 Byam, Erwin B.; and Klein, Gregory L., 3,633,766.
 Carlile, Alfred E.; and Cox, Bernard H., 3,685,105.
 Carter, George D.; Covington, Cecil E.; and Schellhase, Ernst C., 3,683,988.

Clark, Gordon J., 3,668,040.
 Cresap, Wesley Louis; Fagan, Castle Hugh; and Lufkin, Martin Harrison, 3,652,185.
 Doerter, Randall H., 3,685,130.
 Duckwall, Frank E.; and Labelle, Edward J., 3,645,610.
 Dunbar, Jack D., 3,684,631.
 Earl, I. T. Desmond, 3,690,401.
 Gapp, Roland Howard; Alazraki, Marcos; and Harper, John, 3,685,391.
 George, Billy, 3,670,399.
 Gutshall, Charles E., 3,643,543.
 Gutshall, Charles E., 3,656,396.
 Gutshall, Charles E., 3,665,801.
 Howe, Ralph S., Jr., 3,640,592.
 Howe, Ralph S., Jr., 3,693,226.
 Hudnall, Frederick W., 3,648,559.
 Hutzler, George J.; and Farah, Basil S., 3,655,627.
 Jellison, Paul J., 3,670,618.
 Johnston, James R.; and Moertel, George B., 3,686,719.
 Krawczyk, Arthur J., 3,645,943.
 Larson, Eugene R., 3,633,455.
 Lerner, Theodore, 3,689,698.
 Matt, Richard J.; and Rolland, Thomas P., 3,692,375.
 McCullough, Stuart, 3,675,519.
 McNeill, Jon J., 3,639,731.
 Moertel, George B., 3,631,581.
 Moertel, George B.; and Wilson, James R., 3,672,008.
 Moertel, George B., 3,688,805.
 Newman, Albert K., 3,636,995.
 Pazhia, Vincent B.; and Bossler, Franklin B., 3,695,388.
 Pickron, Roger R., 3,666,322.
 Radune, Karl F., 3,696,485.
 Readyhough, Peter A., 3,696,701.
 Reese, Gerald D.; Shank, Gerald G.; and Carlson, Lowell D., 3,707,143.
 Reiland, Bernard F., 3,683,436.
 Reynolds, Rolfe E.; and Spencer, Louis L., 3,646,899.
 Reynolds, Rolfe E., 3,685,471.
 Reynolds, Rolfe E.; and Carlie, Alfred E., 3,696,470.
 Richards, William R., 3,643,979.
 Rieth, Kurt A., 3,675,284.
 Ripley, Richard E., 3,705,490.
 Samuelson, Donald G., 3,684,045.
 Schmidt, Erich A., 3,632,033.
 Schroeder, Herbert M.; and Teloh, David W., 3,634,306.
 Scott, George W., 3,682,205.
 Sherwood, Noble P., Jr.; and Strickland, James P., 3,637,029.
 Smith, George M., 3,703,981.
 Stromberg, Sanford E., 3,674,671.
 Stromberg, Sanford E., 3,681,224.
 Thaeler, Bruce K., 3,645,831.
 Thaeler, Bruce K., 3,654,673.
 Van Dorn, Horace B.; and Howe, Ralph S., Jr., 3,679,279.
 Van Dorn, Horace B.; Matt, Richard J.; and Rolland, Thomas P., 3,697,346.
 Vannest, James L., 3,675,292.
 Vannest, James L., 3,685,114.
 Voronoff, George N., 3,641,579.
 Textron, Inc., *mesne: See—*
 Padovani, Henry R.; and Wright, John G., 3,653,088.
 Smith, Roy E., 3,672,554.
 Wright, John G.; and Chafin, James M., 3,685,815.
 Textronix, Inc.: *See—*
 McAllister, John H., 3,694,291.
 Sprando, Anthony E.; and Sollars, Richard L., 3,694,912.
 Texture-Tex, Incorporated: *See—*
 Lunsford, Leslie E.; Simmons, Clyde A.; and Evans, William L., 3,699,664.
 Teza, James E.: *See—*
 Moser, Gene W.; Cox, Robert A.; and Teza, James E., 3,686,429.
 Tezuka, Kunitoshi. Apparatus for forming small lumps from scrap materials. 3,695,174, 10-3-72, Cl. 100-95.000.
 Tezuka, Kunitoshi. Apparatus for forming packed refuse blocks. 3,696,583, 10-10-72, Cl. 53-124.000.
 Tezuka, Sigeru: *See—*
 Tsuboi, Masayoshi; Komura, Tsuneo; Tezuka, Sigeru; and Kon-do, Asaji, 3,649,810.
 Tezuka, Tadash: *See—*
 Matsushima, Sanae; Tezuka, Tadash; and Nakanowatari, Kameo, 3,689,633.
 Tezuka, Toshihiko: *See—*
 Fujimoto, Yasuo; Teranishi, Masayuki; and Tezuka, Toshihiko, 3,705,873.
 Tezuka, Toshiro: *See—*
 Mukai, Tsuneo; and Tezuka, Toshiro, 3,643,723.
 Thackaberry, Samuel P.: *See—*
 Galiano, Francis R.; Thackaberry, Samuel P.; Smith, Wayne E.; and Anderson, Raymond P., 3,681,216.
 Thacker, Bernard L., Jr., to Firestone Tire & Rubber Company, The. No-twist entanglement of filament and apparatus therefor. 3,673,648, 7-4-72, Cl. 28-1.400.
 Thackray, Chas. F., Limited: *See—*
 Charnley, John, 3,667,456.
 Thackston, Ann: *See—*
 Anderson, Charles E., 3,667,572.
 Thaddey, Kurt: *See—*
 Schaub, Heiner; Thaddey, Kurt; and Celio, Tino, 3,672,768.
 Thaeler, Bruce K., to Textron, Inc. Slide fastener adhesive tape applicator. 3,645,831, 2-29-72, Cl. 156-527.
 Thaeler, Bruce K., to Textron, Inc. Fastening device for garments. 3,654,673, 4-11-72, Cl. 24-208.
 Thaemar, Marvin O.: *See—*
 Rice, Herbert L.; Cizek, Arthur; and Thaemar, Marvin O., 3,665,035.
 Thalenfeld, David R. Price tag holder, and mounting adapter therefor. 3,707,049, 12-26-72, Cl. 40-10.000.
 Thaler, Hans: *See—*
 Schweizer, Peter; and Thaler, Hans, 3,657,388.
 Titzmann, Rudolf; Titzmann, Michael; Thaler, Hans; and Walter, Josef, 3,657,191.
 Thaler, Warren A.: *See—*
 Mueller, Wolfgang H.; Thaler, Warren A.; and Oswald, Alexis A., 3,660,543.
 Thaler, Warren A., to Esso Research and Engineering Company. Preparation of acid halides from paraffins. 3,691,043, 9-12-72, Cl. 204-163.0he.
 Thaler, Warren A., to Esso Research and Engineering Company. 3,5-Substituted-1,2,4 thiadiazoles. 3,691,183, 9-12-72, Cl. 260-302.0sd.
 Thalhimer Brothers, Incorporated: *See—*
 Boley, Benjamin Steven, 3,661,268.
 Thall, Earle Solomon, to RCA Corporation. Method for filling an evacuated electron tube with gas to atmospheric pressure. 3,679,284, 7-25-72, Cl. 316-2.000.
 Thalmann, Armin: *See—*
 Meier, Walter; Burkhardt, Max; and Thalmann, Armin, 3,654,989.
 Thalmann, Claude, to Polytronic Ltd. Target and circuit means for automatically indicating the scare of a projectile shot from a target. 3,705,725, 12-12-72, Cl. 273-102.20a.
 Thamhain, Hans Jurgen: *See—*
 Emerson, Paul Gene; Thamhain, Hans Jurgen; and McIntosh, Bruce Cromwell, 3,664,116.
 Thamm, Rudolf: *See—*
 Opderbeck, Fritz; Ploetz, Theodor; Thamm, Rudolf; and Westerhuis, Popko J., 3,676,294.
 Opderbeck, Fritz; Ploetz, Theodor; and Thamm, Rudolf, 3,691,009.
 Tharman, Paul A., to Briggs & Stratton Corporation. Rectifier network assembly. 3,678,366, 7-18-72, Cl. 321-8.00r.
 Tharmaratnam, Poothathamby, to U.S. Philips Corporation. Transistor amplifier insensitive to the polarity of the supply voltage. 3,665,330, 5-23-72, Cl. 330-24.
 Tharp, Edwin B.: *See—*
 Moroney, John J.; and Tharp, Edwin B., 3,674,325.
 Tharp, Emery C. Tamper proof locking mechanism. 3,650,554, 3-21-72, Cl. 292-127.
 Thatcher, Charles R.: *See—*
 Stanley, Richard C.; Thatcher, Charles R.; and Poore, Ernest C., 3,687,706.
 Thatcher, Irvine L. Game apparatus. 3,656,758, 4-18-72, Cl. 273-134.
 Thatcher, Judith G.: *See—*
 White, Rudolph C.; and Thatcher, Judith G., 3,692,864.
 Thatcher, Robert H., to Marine Systems, Inc. Pump. 3,655,294, 4-11-72, Cl. 415-68.
 Thatcher, Robert H. Sunglasses having adjustable lenses. 3,685,889, 8-22-72, Cl. 351-47.000.
 Thatcher, Russell S.: *See—*
 Fiegel, Harry J., Jr.; and Thatcher, Russell S., 3,650,115.
 Fiegel, Harry J., Jr.; Thatcher, Russell S.; and Linam, Richard L., 3,650,457.
 Thatcher, Russell S., to Kelso Marine, Inc. Control arrangement for the male die of a hydraulic press brake. 3,677,009, 7-18-72, Cl. 60-97.00e.
 Thatcher, Russell S.; and Linam, Richard L., to Kelso Marine, Inc. Solid lubricant launching arrangement for a vessel. 3,681,926, 8-8-72, Cl. 61-67.000.
 Thate, Kurt; and Muller, Jurgen, to Agfa-Gevaert Aktiengesellschaft. Apparatus for wet treatment of films or the like. 3,647,596, 3-7-72, Cl. 156-345.
 Thauer, Peter: *See—*
 Renger, Udo; and Thauer, Peter, 3,656,461.
 Thauer, Peter, to Volkswagenwerk Aktiengesellschaft. Throttle valve mounting for exhaust gas line. 3,693,935, 9-26-72, Cl. 251-305.000.

- Thaxter, James B., to Sperry Rand Corporation. Electrically controllable volume holographic apparatus and method for operating said apparatus. 3,652,145, 3-28-72, Cl. 350-3.5.
- Thaxton, Ellis B., to Ride-Rite Corporation, mesne. Air spring mounting for pick-up trucks. 3,664,681, 5-23-72, Cl. 280-124.00f.
- Thaxton, Karl Lehman: *See—*
- Bigliano, Robert Paul; and Thaxton, Karl Lehman, 3,668,311.
- Thayer, Arlie J.: *See—*
- Cameron, Douglas H.; Moody, Roy A.; and Thayer, Arlie J., 3,632,071.
- Moody, Roy A.; Sullivan, John F.; and Thayer, Arlie J., 3,668,744.
- Thayer, Arlie J.; and Cameron, Douglas A., to Panduit Corporation. Bracket for mounting cable bundles in lightening holes. 3,632,069, 1-4-72, Cl. 248-56.
- Thayer, Arlie J., to Panduit Corporation. Right angle mounting bracket. 3,632,070, 1-4-72, Cl. 248-68. Corporation.
- Thayer, Arthur G., to Libbey-Owens-Ford Company. Apparatus for shear and fatigue testing of pins. 3,643,499, 2-22-72, Cl. 73-101.
- Thayer Corporation: *See—*
- Munson, Robert V.; and Thayer, Patrick T., 3,654,601.
- Munson, Robert V.; and Bensmiller, Richard E., 3,657,926.
- Thayer, Douglas L. Apparatus for automatically feeding work to a centerless grinder. 3,660,946, 5-9-72, Cl. 51-103.
- Thayer, Frank L., to Johnson-March Corporation. Railroad car thawing device utilizing disposable reflector sheets. 3,654,430, 4-4-72, Cl. 219-347.
- Thayer, Helen I.: *See—*
- Tucci, Edmond R.; Thayer, Helen I.; and Ward, John V., 3,644,529.
- Thayer, Helen I., to Gulf Research & Development Company. Lecithin mixtures and reaction products of 1,2-disubstituted imidazoline. 3,644,393, 2-22-72, Cl. 260-309.6.
- Thayer, Inc.: *See—*
- Burnham, Benjamin K., 3,632,163.
- Thayer, Olin E., to Amscat Corporation. High density communications system. 3,665,474, 5-23-72, Cl. 343-200.
- Thayer, Patrick T.: *See—*
- Munson, Robert V.; and Thayer, Patrick T., 3,654,601.
- Thayer, Patrick T.; and Munson, Robert V., to Marquart Industrial Products Co. Collision warning system. 3,653,049, 3-28-72, Cl. 343-112.
- Thayer, Robert L.: *See—*
- Gibson, Fred D., Jr.; Halker, Bruce B.; and Thayer, Robert L., 3,634,216.
- Thayer, Victor R. Production of heavy water. 3,685,966, 8-22-72, Cl. 423-580.00n.
- Thayer, Victor R. Process and apparatus for concentrating isotope by the simultaneous exchange of heat and mass. 3,685,967, 8-22-72, Cl. 423-580.00n.
- Thayer, Victor R. Process for enrichment by countercurrent mass transfer. 3,692,477, 9-19-72, Cl. 423-580.000.
- Theado, Donald R.: *See—*
- Jagers, Henry T.; and Theado, Donald R., 3,684,954.
- Theander, Olof: *See—*
- Conrad, Ernst; and Theander, Olof, 3,651,221.
- Thebert, Glenn W.: *See—*
- Bracken, Joseph W., Jr.; Davidson, Roger A.; and Thebert, Glenn W., 3,688,497.
- Thebis, Eberhard, to Continental Elektroindustrie Aktiengesellschaft. Temperature compensated gravimeter. 3,683,697, 8-15-72, Cl. 73-382.000.
- Thee, Alfred: *See—*
- Brecker, Lawrence R.; and Thee, Alfred, 3,640,953.
- Brecker, Lawrence R.; and Thee, Alfred, 3,642,677.
- Brecker, Lawrence R.; and Thee, Alfred, 3,642,848.
- Brecker, Lawrence R.; and Thee, Alfred, 3,674,737.
- Theer, Anton: *See—*
- Neudecker, Karl; and Theer, Anton, 3,667,362.
- Winkler, Alfred; Theer, Anton; Zanner, Johann; and Hennig, Fridolin, 3,668,989.
- Theer, Anton; and Zanner, Johann, to Agfa-Gevaert Aktiengesellschaft. Motion picture camera. 3,656,842, 4-18-72, Cl. 352-91.
- Theer, Anton, to Agfa-Gevaert Aktiengesellschaft. Motion picture camera with automatically deactivatable fading means. 3,674,349, 7-4-72, Cl. 352-91.000.
- Theer, Anton, to Agfa-Gevaert Aktiengesellschaft. Cinematographic apparatus. 3,706,427, 12-19-72, Cl. 242-205.000.
- Thees, Richard, to U.S. Philips Corporation. Self starting synchronous motor having means for reducing negative torque to produce stable no load rotation. 3,675,059, 7-4-72, Cl. 310-156.000.
- Theilacker, Klaus: *See—*
- Liebert, Oskar; and Theilacker, Klaus, 3,703,281.
- Theile, Kenneth W.; Lennert, David A.; and Rose, Frederick G., to Procter & Gamble Company. The. Liquid detergent compositions containing amylolytic enzymes. 3,634,266, 1-11-72, Cl. 252-132.
- Theimer, Ernst T.: *See—*
- Evers, William J.; Katz, Ira; Wilson, Richard A.; and Theimer, Ernst T., 3,647,792.
- Grossman, James D.; Mookherjee, Braja D.; De Simone, Robert; and Theimer, Ernst T., 3,679,749.
- Pittet, Alan O.; Mason, Michael E.; Theimer, Ernst T.; and Tibbetts, Merrick S., 3,686,177.
- Pittet, Alan O.; Muralidhara, Ranya; and Theimer, Ernst T., 3,705,158.
- Theimer, Ernst T., to International Flavors & Fragrances Inc. Saturated indane derivatives and processes for producing same. 3,681,464, 8-1-72, Cl. 260-586.
- Theimer, Ernst T., to International Flavors & Fragrances Inc. Saturated indane derivatives and processes for producing same. 3,703,479, 11-21-72, Cl. 252-522.000.
- Theis, James V., Jr.; McCord, John B.; and Holly, Harry H., to Holymatic Corporation. Fluid engine. 3,707,336, 12-26-72, Cl. 416-186.000.
- Theis, Kathleen. Apparatus for curling eye lashes. 3,640,290, 2-8-72, Cl. 132-32.
- Theis, Peter F. Multiplier circuit for automatic telephone answering system. 3,668,325, 6-6-72, Cl. 179-6.
- Theisen, Roger Pierre, to Continental Ore Corporation. Direct reduction process and simultaneous continuous casting of metallic materials in a crucible to form rods. 3,669,178, 6-13-72, Cl. 164-50.000.
- Theiss, Armin: *See—*
- Butter, Karl; Wittich, Willibald; and Theiss, Armin, 3,686,081.
- Theissen, Donald R., to Minnesota Mining and Manufacturing Company. Moisture-resistant solar control film. 3,681,179, 8-1-72, Cl. 161-4.000.
- Theissen, Ferdinand: *See—*
- Geiger, Friedhelm; Lussling, Theodor; Theissen, Ferdinand; and Weigert, Wolfgang, 3,687,621.
- Theissen, Hans: *See—*
- Budich, Wolfgang; Theissen, Hans; Schaefer, Hans; and Andree, Walter, 3,703,063.
- Theissen, Robert J., to Mobil Oil Corporation. Halophenoxy benzoic acid herbicides. 3,652,645, 3-28-72, Cl. 260-471.
- Thelander, W. Vincent. Friction clutch. 3,653,475, 4-4-72, Cl. 192-99.
- Thelemaque, Louis Emanuel, to Bell Telephone Laboratories, Incorporated. Multiple mark detectors for end marked switching networks. 3,692,943, 9-19-72, Cl. 179-18.00e.
- Thelen, Alfred J.; Bergfelt, Nils H.; and Eufusia, Eugene A., to Optical Coating Laboratory, Inc. Coating apparatus and system. 3,636,916, 1-25-72, Cl. 118-8.
- Thelen, Charles O.; and Ziegler, Hans J., to Western Electric Company, Incorporated. Bracket for mounting apparatus. 3,640,493, 2-8-72, Cl. 248-27.
- Thelen, Johannes: *See—*
- Bade, Edich; and Thelen, Johannes, 3,633,889.
- Thelen, William, to Bell Telephone Laboratories, Incorporated. Precision temperature control circuit with improved reliability. 3,702,921, 11-14-72, Cl. 219-501.000.
- Thelin, Karl Hugo: *See—*
- Delin, Per Staffan; Kiessling, Karl Hans Fritz; Thelin, Karl Hugo; and Lars, Solve, 3,684,658.
- Them, Edward G.; and Kowalski, Walter C., to Therm-O-Disc, Incorporated. Thermostat with manual reset. 3,660,793, 5-2-72, Cl. 337-348.
- Them, Edward G., to Therm-O-Disc, Incorporated. Wire connector structure. 3,683,318, 8-8-72, Cl. 339-95.00r.
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- Themelis, Nickolas J.; and Tarassoff, Peter, to Noranda Mines Limited. Preparation and method of feeding copper concentrates and method of tapping copper in the continuous smelting and converting process. 3,700,431, 10-24-72, Cl. 75-73.000.
- Then, Rudolf, Farbereimaschinenfabrik Gesellschaft mit beschränkter Haftung, Firma: *See—*
- Christ, Wilhelm; and Weissbach, Peter, 3,679,357.
- Thennard, Norbert: *See—*
- Hurst, George S.; Thennard, Norbert; and Schneider, Karl A., 3,679,902.
- Theobald, Edwin: *See—*
- Seyern, Alpha, 3,682,449.
- Theobald, Elwin: *See—*
- Coon, James A.; and Theobald, Elwin, 3,656,216.
- Theobald, Paul R.: *See—*
- Davis, M.; Paul; and Theobald, Paul R., 3,664,868.
- Theobald, Reiner: *See—*
- Hinz, Eberhard; Kaufer, Helmut; and Theobald, Reiner, 3,660,552.
- Theobald, Stuart J. Rescue and safety vest. 3,701,395, 10-31-72, Cl. 182-3.000.
- Theoclitus, Gregory, to Air Preheater Company, Inc., The. Ash removal system. 3,693,558, 9-26-72, Cl. 110-8.00r.
- Theodore, Charles, to LTV Ling Altec, Inc. Electrical adjustment of time-constant apparatus. 3,660,690, 5-2-72, Cl. 307-273.

- Theodore, Charles, to LTV Ling Altec, Inc. Protected power supply. 3,670,232, 6-13-72, Cl. 321-14.
- Theodore, Charles, to LTV Ling Altec, Inc. Hermetic transformer. 3,670,276, 6-13-72, Cl. 336-92.000.
- Theodore, Roy: *See—*
- Evans, David Maurice; and Theodore, Roy, 3,676,629.
- Theodoridis, George Constantine. Ring monitor. 3,641,582, 2-8-72, Cl. 346-21.
- Theodorou, Dimitri G.: *See—*
- Deradorian, Bagdasar; Goodrich, George W.; and Theodorou, Dimitri G., 3,677,730.
- Theodorsen, Theodore E., to Salmon, Kurt, Associates, Inc. Apparatus for encapsulating an article within molded polyurethane. 3,642,400, 2-15-72, Cl. 425-129.
- Theodorson, Jerald W., to Minnesota Mining and Manufacturing Company. Semi-rigid paneling. 3,660,216, 5-2-72, Cl. 161-161.
- Theodoulou, Sotos M., to Clairtone Sound Corporation. DC regulating blanking insertion circuit and color matrix circuit. 3,660,598, 5-2-72, Cl. 178-5.4.
- Therachemie Chemisch Therapeutische Gesellschaft mbH: *See—*
- Rehberg, Rolf; and Wiskott, Erik, 3,695,823.
- Therachemie Chemisch-therapeutische Gesellschaft m.b.H.: *See—*
- Maul, Rudolf; and Rehberg, Rolf, 3,634,013.
- Therault, George R. Flashing. 3,698,142, 10-17-72, Cl. 52-58.000.
- Theriot, Eugene Joseph, to Bell Telephone Laboratories, Incorporated. Phase distortion detector for detecting phase distortion on a linearly frequency modulated waveform. 3,679,983, 7-25-72, Cl. 329-110.000.
- Theriot, Gilbert A.: *See—*
- Elkins, Johnny C.; and Theriot, Gilbert A., 3,672,064.
- Therm-O-Disc, Incorporated: *See—*
- Bletz, Howard W., 3,676,817.
- Holden, Ronald L., 3,670,283.
- Place, Donald E., 3,675,178.
- Schmitt, Donald J., 3,636,622.
- Snider, Harold F.; and Gerich, Anton J., 3,662,311.
- Them, Edward G.; and Kowalski, Walter C., 3,660,793.
- Them, Edward G., 3,683,318.
- Thermad, Inc.: *See—*
- Cousino, Walter Frank, 3,657,868.
- Thermadyne International, Ltd.: *See—*
- Wolf, Walter C., 3,704,844.
- Thermal Components, Inc.: *See—*
- Minnick, Donald F., Jr., 3,657,992.
- Thermal Process Engineering Company: *See—*
- Norris, James D., 3,646,880.
- Thermal Syndicate Limited: *See—*
- Edwards, Frederick James, 3,660,065.
- Edwards, Frederick James, 3,676,970.
- Hutchinson, Eric; and Hetherington, Gordon, 3,699,308.
- Thermaline Corporation: *See—*
- Cooksley, Ralph D., 3,631,919.
- Thermalloy Incorporated: *See—*
- Hartman, John H., 3,640,399.
- Thermason Corporation, mesne: *See—*
- Reid, James S., 3,699,040.
- Thermasol, Ltd.: *See—*
- Altman, Murray; Altman, David; and Altman, Seymour E., 3,655,135.
- Thermetics, Inc.: *See—*
- Eliot, Sigdon A., 3,656,735.
- Thermex, Inc., mesne: *See—*
- Klingler, Josef F., 3,689,339.
- Thermo Electron Corporation: *See—*
- Huffman, Fred N., 3,657,877.
- Lazaridis, Lazaros J., 3,667,745.
- Murphy, Preston V., 3,702,493.
- Rufeh, Firooz; Lieb, David P.; and Howard, Robert C., 3,663,840.
- Speidel, Thomas O. P.; Trotter, Edward E.; and Shesfiek, Paul K., 3,663,798.
- Van Someren, Laurence, 3,635,760.
- Thermo King Corporation: *See—*
- Barlass, John W.; and Naley, Lowell B., 3,665,725.
- Thermo Trim, Inc.: *See—*
- Dahlberg, Kurg G., 3,687,355.
- Thermo-Couple Products Company, Inc.: *See—*
- Finney, Philip F., 3,701,884.
- Finney, Phillip F., 3,650,024.
- Thermo-Dielectric Machine Co., Inc.: *See—*
- Lippman, Gerald, 3,643,554.
- Thermo-Dynamics Inc.: *See—*
- Balch, Joseph C., 3,648,767.
- Thermo-Sentinel Corporation: *See—*
- Walls, Henry M.; Sayers, George M.; and Walls, Noel B., 3,701,344.
- Thermo-Systems Inc.: *See—*
- Dorman, Frank D., 3,648,517.
- Olin, John G., 3,653,253.
- Thermo-Technical Development Limited: *See—*
- Lowe, Walter Max; and Squirrel, Frederick, 3,698,429.
- Thermoform A.G.: *See—*
- Van Elten, Gerrit Jan, 3,650,480.
- Thermofomed Plastics Corporation: *See—*
- Saveth, Ivan H., 3,672,598.
- Thermolyne Corporation: *See—*
- Clarke, Benjamin Earl, 3,691,988.
- Thermoplastic Processes Inc.: *See—*
- Du Pont, Paul R., 3,673,401.
- Thermotron Corporation: *See—*
- Conrad, Charles F.; and Dadd, Kieth L., 3,664,181.
- Therond, Jean-Francois: *See—*
- Delignieres, Robert; and Therond, Jean-Francois, 3,671,723.
- Therrien, Alderic R.: *See—*
- Kroll, Harry; Therrien, Alderic R.; and Forchielli, Americo L., 3,654,206.
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- Pranke, John A., 3,699,465.
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- O'Neill, Charles Edward; and Theubert, Frank Otto, 3,658,475.
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- Steinbach, Hans-Horst; Theuer, Werner; and Schnurrbusch, Karl, 3,650,979.
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- Plasser, Franz; and Theurer, Josef, 3,633,513.
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- Plasser, Franz; Theurer, Josef; and Schubert, Egon, 3,643,503.
- Plasser, Franz; and Theurer, Josef, 3,651,587.
- Plasser, Franz; and Theurer, Josef, 3,651,762.
- Plasser, Franz; and Theurer, Josef, 3,654,868.
- Plasser, Franz; and Theurer, Josef, 3,659,345.
- Plasser, Franz; and Theurer, Josef, 3,669,025.
- Plasser, Franz; and Theurer, Josef, 3,675,581.
- Plasser, Franz; and Theurer, Josef, 3,680,486.
- Plasser, Franz; and Theurer, Josef, 3,685,456.
- Plasser, Franz; Theurer, Josef; and Folser, Karl, 3,685,589.
- Plasser, Franz; and Theurer, Josef, 3,687,081.
- Plasser, Franz; and Theurer, Josef, 3,690,262.
- Plasser, Franz; and Theurer, Josef, 3,690,263.
- Plasser, Franz; and Theurer, Josef, 3,690,264.
- Plasser, Franz; and Theurer, Josef, 3,691,957.
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- Dumast, Michel; Rouzaud, Guy; and Thevenin, Luc, 3,693,022.
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- Junghahnel, Rudolph; Renckhoff, Gustav; and Thewalt, Klaus, 3,639,601.
- Junghahnel, Rudolph; Renckhoff, Gustav; and Thewalt, Klaus, 3,681,496.
- Thewis, Josef: *See—*
- Becke, Friedrich; Fuchs, Friedrich; Kohlhaupt, Reinhold; Sander, Bruno; and Thewis, Josef, 3,632,623.
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- Morton, John; Stevens, Keith Drummond; and Thexton, Graham Spencer, 3,689,818.
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- Paris, Rene A.; Thibaudon, Dominique; Roubin, Marc P.; and Paris, Jacques M., 3,704,116.
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Fioravanti, Jean; Carriere, Robert Lucien; Thibault, Paul; and Fioravanti, Alain J. F. R., 3,667,416.
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Genisson, Roger R.; and Thibieroz, Jean Pierre A., 3,650,722.
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Evans, Theodore A.; Meck, Robert M.; and Thibodeau, Joseph E., 3,656,530.
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- Thiede, Peter: *See*—
Gottweis, Gert; Herrlich, Michael; Klas, Gunther; Schober, Joachim; Thiede, Peter; and Zachaus, Eberhard, 3,676,978.
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Dorn, Friedrich Wilhelm; Frank, Klaus; Gleisberg, Dietrich; Kandler, Joachim; and Thiel, Hans Dieter, 3,649,370.
- Thiel, Hans-Dieter: *See*—
Schneider-Arnoldi, Alfred; Kampmann, Friedrich-Wilhelm; Thiel, Hans-Dieter; Kandler, Joachim; and Gleisberg, Dietrich, 3,676,165.
- Thiel, Max: *See*—
Fauland, Erich; Kampe, Wolfgang; Thiel, Max; Juhran, Wolfgang; Dietmann, Karl; and Stork, Harald, 3,706,728.
- Winter, Werner; Thiel, Max; Stach, Kurt; Schaumann, Wolfgang; and Ribbentrop, Annemarie, 3,639,423.
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Lamer, Gerald P.; and Thiele, Duane L., 3,698,569.
- Thiele, Edmund J.: *See*—
Robison, Herbert D., 3,707,426.
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Heimann, Alfred; Thiele, Horst; and Meyer, Horst, 3,688,716.
- Thiele, Kurt: *See*—
Bebenburg, Walter V.; and Thiele, Kurt, 3,681,366.
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- Posselt, Klaus; and Thiele, Kurt, 3,686,206.
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Coronelli, Carolina; and Thiemann, Josef, 3,683,074.
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Gehlen, Hermann Walter; Hartmann, Karl; and Thieme, Gerhard, 3,706,209.
- Thien, Gerhard: *See*—
Fachbach, Heinz; and Thien, Gerhard, 3,684,053.
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Linde, Hans; and Thienel, Peter, 3,640,193.
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Feinauer, Roland; Thier, Werner; and Schneider, Wolfgang, 3,679,468.
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Chabardes, Pierre; Gandilhon, Pierre; Grard, Charles; and Thiers, Michel, 3,671,569.
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Willems, Jozef Frans; Thiers, Robrecht Julius; and Priet, Roger Alois, 3,687,662.
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Ameling, Bernhard; and Kaup, Siegfried, 3,698,212.
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Purcell, Antoinette M.; Thies, Curt; Bank, Morris I.; and Leffingwell, James W., 3,694,246.
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Levy, Robert M.; Thiessen, Robert J.; and Growald, Bert, 3,653,894.
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Janssen, Casper Johannes Gerardus Ferdinand; Jonker, Hendrik; and Thijssens, Theodorus Petrus Gerardus Wilhelm, 3,634,168.
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Tomalia, Donald A.; and Thill, Bruce P., 3,670,046.
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Haberhauer, Karl, 3,690,524.
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Askins, Robert E.; and Roys, George P., 3,701,278.
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- Bolner, Thomas E., 3,663,937.
- Byrne, Robert W., 3,658,005.
- Collman, Joel, 3,706,257.
- Cox, Duane M., 3,680,788.
- Dawbarn, Henry D., 3,654,884.
- Desjardins, Stanley P.; Canfield, Alan R.; and Wilson, Jonathan W., 3,696,999.
- Eskelson, Ross W.; and Johnson, James S., 3,656,557.
- Everhart, John; and Felder, John Lawson, 3,651,184.
- Fein, Marvin; Loprest, Frank; and Shaheen, Donald G., 3,698,969.
- Ficon, Joseph; and Clemente, Joseph, 3,665,710.
- Gallagher, John P.; Meyers, Robert M.; Sorg, Earl H.; and Wil-lits, Clark M., 3,697,472.
- Hackman, Elmer Ellsworth, III, 3,656,432.
- Hogg, William J.; Jackson, Charles A.; Harvin, Septimus A.; and Whitesel, Joseph C., 3,695,983.
- Holmes, Robert E., 3,653,266.
- Horning, Kermit G., 3,690,811.
- Lamboy, Osvaldo; and Smith, Daniel J., 3,635,880.
- Levine, Nathan B.; Green, Joseph; and Sheehan, William R., 3,649,609.
- Lovingham, Joseph J.; and Kircher, Hartmann J., III, 3,636,710.
- Mayes, Nathan; and Michaels, Ronald, 3,637,814.
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- Mayes, Nathan; and Michaels, Ronald, 3,660,367.
- Mayes, Nathan; and Falk, Robert A., 3,679,755.
- McCullough, Edward E., 3,698,642.
- McCullough, Edward E., 3,655,148.
- McCullough, Edward E., 3,656,304.
- Millen, Edward G., 3,637,574.
- Paustian, John E.; and De Thomas, Waldo, 3,632,318.
- Paustian, John E.; and Fein, Marvin M., 3,667,524.
- Pelham, Joseph E.; and Osburn, Albert Ray, 3,701,256.
- Rich, Blaine B.; and Brown, Rex M., 3,685,404.
- Riddell, Vernon A., 3,668,783.
- Schneider, Fred E.; Jorgensen, Howard E.; and Davis, Leland E., 3,692,495.
- Schultz, Stephen D., 3,659,789.
- Shaw, Graham C.; and Reed, Russell, Jr., 3,677,840.
- Smith, Daniel J.; Sorg, Earl H.; O'Grady, Elmer V.; and Walters, Fred, 3,659,896.
- Thompson, Grant; and Wall, Bobby M., 3,698,967.
- Thurston, James R.; and Grosgebauer, Roger A., 3,662,645.
- Villa, Jose L., 3,679,616.
- Wall, Richard H., 3,698,321.
- West, Denny M., 3,693,831.
- Thiokol Chemical Corporation, mesne: *See*—
Von Der Heide, Elmer J., 3,701,700.
- Thiollere, Jean: *See*—
Pacheco, Henri; Cronenberger, Lucien; Pillon, Daniel; and Thiollere, Jean, 3,632,618.
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- Thirot, Gerard: *See*—
Roe, Rene Pierre Victor; and Thirot, Gerard, 3,646,005.
- Thirumalachar, Mandayam Jeersannidhi. Antiamoebin, an anthelmintic and antiprotozoal antibiotic, and a method for producing the same. 3,657,419, 4-18-72, Cl. 424-119.
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Reiners, Walter; and Tho Pesch, Albert, 3,690,126.
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Lewer, Hans; Dust, Hanspeter; and Thoenes, Martin, 3,657,135.
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Gilbert, Daniel Eugene; Nelson, Larry Ralph; Sturgeon, Charles Edwin; and Thom, Robert Keith, 3,666,670.
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Svensson, Sven-Erik Vilhelm; and Thoma, Erno Jozef, 3,659,978.
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Kooijman, Sebastiaan E. M.; and Thoma, Jozef A., 3,654,238.
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Mentrup, Anton; Schromm, Kurt; Zeile, Karl; and Thoma, Otto, 3,657,244.
- Thoma, Paul E.: *See*—
Dube, Victor J.; Thoma, Paul E.; and Kao, Jao Shiun, 3,665,765.
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Fischer, Hermann; Heil, Eduard; Swoboda, Johann; and Thoma, Richard, 3,634,300.
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Muller, Erwin; and Thoma, Wilhelm, 3,639,354.
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- Thomann, Helmut, to Siemens Aktiengesellschaft. Piezoelectric structure composed of a ceramic ferro-electric material having a Perovskite arrangement of components. 3,663,440, 5-16-72, Cl. 252-62.9.
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Bush, Harold Jesse, 3,673,894.
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- Cole, John M.; and Sinclair, William, 3,676,924.

De Stephan, Joseph J., 3,660,806.
 Eppler, Daniel, 3,674,392.
 Farkas, Paul; and Hidassy, Laszlo, 3,648,738.
 Ferguson, Ian L., 3,634,806.
 Fiorentino, Arthur A., 3,649,998.
 Fiorentino, Arthur A., 3,672,615.
 Garner, Peter, 3,673,543.
 Jackson, David L., 3,643,327.
 Klein, Avigdor, 3,659,328.
 Marshall, Joseph, 3,634,782.
 O'Loughlin, Francis A., 3,644,875.
 O'Loughlin, Francis A., 3,649,743.
 O'Loughlin, Francis A.; and Herb, Philip J., 3,697,669.
 Sinclair, William Y., 3,668,337.
 Sinclair, William Y., 3,696,506.
 Sotolongo, Thomas J., 3,667,783.
 Troccoli, Arthur M., 3,702,372.
 Weisenburger, Lawrence P., 3,660,789.
 Wunder, Richard J., 3,633,400.
 Wunder, Richard J., 3,680,352.
 Thomas, Alan F.: *See—*
 Buchi, George H.; Demole, Edouard; Eschenmoser, Albert; and Thomas, Alan F., 3,694,466.
 Thomas, Alan Francis, to Firmenich & Cie. Process for the preparation of unsaturated aldehydes. 3,654,309, 4-4-72, Cl. 260-332.3.
 Thomas, Alfred W., to Massey-Ferguson Services N.V. Control for power take-off. 3,674,106, 7-4-72, Cl. 180-53.000.
 Thomas, Alfred William, to Massey-Ferguson Services N.V. Sliding shaft power take off speed change. 3,675,497, 7-11-72, Cl. 74-15.400.
 Thomas, Allen G.: *See—*
 Harris, Thomas L.; Boone, Joyce W.; and Thomas, Allen G., 3,661,389.
 Thomas, Arthur E.: *See—*
 Schmid, John H.; and Thomas, Arthur E., 3,638,244.
 Thomas, Aubrey M.; and Holston, Aubrey G., to United States of America, Navy. Electric field measuring instrument with probe for sensing three orthogonal components. 3,662,260, 5-9-72, Cl. 324-72.
 Thomas, Billy W.: *See—*
 Nothum, Andrew; Thomas, Billy W.; and White, Abram L., 3,670,553.
 Thomas, Bobby E.; and Maki, Edward W. Orthopedic cast. 3,656,477, 4-18-72, Cl. 128-91.
 Thomas, Brian Martin: *See—*
 Howard, Donald Kearey; Thomas, Brian Martin; Popplewell, Alan Francis; and Matossi, Dario, 3,691,033.
 Thomas, Bryan: *See—*
 Bush, Richard P.; and Thomas, Bryan, 3,655,615.
 Bush, Richard Paul; and Thomas, Bryan, 3,655,711.
 Bush, Richard Paul; and Thomas, Bryan, 3,677,977.
 Thomas, Buford L.; and Steffens, David G., to Valco, Inc. Vertical adhesive applicator head. 3,642,181, 2-15-72, Cl. 222-517.
 Thomas, Calvin J. Coaxial hybrid junction device having impedance matched terminations. 3,654,570, 4-4-72, Cl. 333-11.
 Thomas, Carlton E., to KMS Industries, Inc. Recorder with zone plate scanner. 3,703,724, 11-21-72, Cl. 346-108.000.
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 Thomas, Charles E.: *See—*
 Mentcher, Israel; and Thomas, Charles E., 3,648,636.
 Thomas, Clarence H. Vent for soil pipe stack. 3,638,402, 2-1-72, Cl. 55-307.
 Thomas, Dalton A. Connector between transmission actuating shaft and arm therefor. 3,675,956, 7-11-72, Cl. 287-53.00r.
 Thomas, Daniel C., to Lithoplate, Inc. Phenoxypolymer having no epoxy groups, and article made therefrom. 3,652,272, 3-28-72, Cl. 96-33.
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 Thomas, David A.: *See—*
 Jeffreys, Roy A.; and Thomas, David A., 3,674,493.
 Thomas, David Carl, to FMC Corporation. Adjustable stop for input shaft. 3,650,156, 3-21-72, Cl. 74-10.2.
 Thomas, David F.: *See—*
 Berglund, Harold A.; and Thomas, David F., 3,697,197.
 Thomas, David F., Jr., to United States of America, National Aeronautics and Space Administration. One-hand backpack harness. 3,649,921, 3-14-72, Cl. 224-25.
 Thomas, David Kenneth: *See—*
 Phillips, Leslie Nathan; and Thomas, David Kenneth, 3,645,968.
 Thomas, David L. Holder for starter fuel in fireplace grate. 3,682,158, 8-8-72, Cl. 126-165.000.
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 Thomas, Edmund C.: *See—*
 Owen, James Neal; Moberly, Raymond Ronald; Martin, Edwin J., Jr.; Yamada, Akemichi; and Thomas, Edmund C., 3,675,162.
 Thomas, Edmund P.: *See—*
 Ness, Leif A.; and Thomas, Edmund P., 3,657,898.
 Ness, Leif A.; and Thomas, Edmund P., 3,696,637.
 Thomas, Edward J.; and Friedrich, Ralph E., to Dow Chemical Company, The. Electrical coalescence of polymer fines. 3,664,938, 5-23-72, Cl. 204-180.
 Thomas, Edward R.: *See—*
 Cahill, Lysle D.; Feller, John; Marshall, William W.; Thomas, Edward R.; and Thompson, Harold P., 3,689,693.
 Thomas, Edward W.: *See—*
 Scherzer, Walter O.; and Thomas, Edward W., 3,663,816.
 Thomas Electronics Limited: *See—*
 Hill, Frederick Norman, 3,694,804.
 Thomas, Floyd O'Neill. Reflective signs and markers. 3,651,590, 3-28-72, Cl. 40-135.
 Thomas, Frank W. Lamp guard. 3,652,845, 3-28-72, Cl. 240-54.
 Thomas, Freddy E.: *See—*
 Chelocci, Kenneth M.; and Thomas, Freddy E., 3,683,931.
 Thomas, Frederick, & Company Limited: *See—*
 Pizzey, Peter Ernest, 3,679,886.
 Thomas, Frederick H.: *See—*
 Borel, Robert J.; Corey, Leonard S.; Rucharski, Thaddeus W.; Stocking, John L.; and Thomas, Frederick H., 3,706,406.
 Thomas French & Sons Limited: *See—*
 Foggo, James Douglas, 3,681,158.
 Thomas, Friedhelm, to Seitz-Werke G.m.b.H. Bottle cleaning machine. 3,658,073, 4-25-72, Cl. 134-72.
 Thomas Game Call Co., Inc.: *See—*
 Thomas, Dwight E., 3,656,258.
 Thomas, Georges: *See—*
 Petit, Maurice; and Thomas, Georges, 3,704,140.
 Thomas, Gerald F.: *See—*
 Rembert, Russell S.; and Thomas, Gerald F., 3,649,724.
 Thomas, Glenn R.: *See—*
 Flick, Robert H.; Thomas, Glenn R.; and Majcher, John, 3,657,672.
 Thomas, Godfrey Hunt: *See—*
 Skelton, Leslie George Victor; Thomas, Godfrey Hunt; and Jenkins, Hedley Brynmor, 3,661,371.
 Thomas, Gordon D.: *See—*
 Brock, Robert J.; and Thomas, Gordon D., 3,695,985.
 Thomas, Gordon D., to Kimberly-Clark Corporation. Multi-ply paper towel. 3,650,882, 3-21-72, Cl. 161-122.
 Thomas, Graham Isaac: *See—*
 Kennedy, Christopher John; Shepherd, Alexander Turnbull; and Thomas, Graham Isaac, 3,702,471.
 Thomas, Herbert, to Copystatics Manufacturing Corporation. Exposure lamp alignment equipment. 3,698,815, 10-17-72, Cl. 356-121.000.
 Thomas, Herbert P.; Hartman, Thomas E.; and Aasen, Torulf F., to Copystatics Manufacturing Corporation. Copying machine for making reduced-size copies. 3,639,057, 2-1-72, Cl. 355-51.
 Thomas, Hubert E. Vibratory rollers. 3,635,134, 1-18-72, Cl. 94-50.
 Thomas, Hubert L.; and Mueller, Alexander, to Ren Plastics, Inc. Adducts of dicyandiamide and the equimolar condensate of phthalic anhydride and a polyamine as epoxy resin latent curing agents. 3,632,795, 1-4-72, Cl. 260-47.
 Thomas, Ian M.: *See—*
 Jasinski, Amy L.; and Thomas, Ian M., 3,654,058.
 Levene, Leon; and Thomas, Ian M., 3,640,093.
 Thomas, Ian M., to Owens-Illinois, Inc. Method for the preparation of ultra high purity SiO₂ in a porous bead form. 3,667,909, 6-6-72, Cl. 23-182.00r.
 Thomas, Ieuan: *See—*
 Andrews, Timothy Douglas; Short, Glyn David; and Thomas, Ieuan, 3,671,250.
 Andrews, Timothy Douglas; Short, Glyn David; and Thomas, Ieuan, 3,697,528.
 Buckley, Alan; and Thomas, Ieuan, 3,673,162.
 Thomas Industries, Inc.: *See—*
 Durkee, John E., 3,686,668.
 Durkee, John E., 3,689,886.
 Porter, David H.; and Biscoe, Thomas S., 3,678,265.
 Sweetser, Donald Arthur, 3,701,895.

Thomas, James A.: *See—*
 Conant, Barton C.; and Thomas, James A., 3,699,981.
 Thomas, James B.; and George, Vincent J., to United States of America, Atomic Energy Commission. Cathode ray tube with serpentine-shaped transmission line deflection means. 3,644,777, 2-22-72, Cl. 315-3.
 Thomas, James H. Shock absorber extension. 3,679,029, 7-25-72, Cl. 188-321.000.
 Thomas, James L.: *See—*
 Denigan, Thomas R.; and Thomas, James L., 3,699,839.
 Thomas, James L. Shopping cart. 3,706,460, 12-19-72, Cl. 280-33.99f.
 Thomas, Janine M.: *See—*
 Furan, Claude P.; Raynaud, Guy M.; Eberle, Jeannine A.; and Thomas, Janine M., 3,658,822.
 Thomas, Jean: *See—*
 Melon, Jean-Marie; and Thomas, Jean, 3,639,606.
 Thomas, Jean Claude, to Produits Chimiques Pechiney-Saint-Gobain. Manufacture of polyvinyl chloride. 3,635,928, 1-18-72, Cl. 260-92.8.
 Thomas, Jean Claude, to Produits Chimiques Pechiney-Saint-Gobain. Polymerization in mass of ethylenic monomers and products produced thereby. 3,687,919, 8-29-72, Cl. 260-87.100.
 Thomas, Jean Claude; and Soussan, Salomon, to Produits Chimiques Pechiney-Saint-Gobain. Polymerization of ethylenic monomers and products thereof. 3,687,923, 8-29-72, Cl. 260-92.80r.
 Thomas, Jeffery R.; and Steinmetz, Ib, to Sun Oil Company. Preparation of lube hydrocracking stocks. 3,663,427, 5-16-72, Cl. 208-87.
 Thomas, Jerald F.: *See—*
 Brown, Carl A.; and Thomas, Jerald F., 3,701,424.
 Thomas, Jerome F.: *See—*
 Brink, David L.; and Thomas, Jerome F., 3,639,111.
 Thomas, Jerry D.: *See—*
 North, Donald F., Jr.; Thomas, Jerry D.; and Worth, Gerald W., 3,671,224.
 Thomas, Joachim: *See—*
 Ortlieb, Dieter; Thomas, Joachim; Stockburger, Horst; Birkhold, Erich; and Kling, Horst, 3,688,730.
 Thomas, John A., Jr.; and Spangenberg, Gerhard D., to J. P. Industries, Inc. Inverter system with resonant electro-dynamical device. 3,659,968, 5-2-72, Cl. 417-417.
 Thomas, John Breniser: *See—*
 Dowling, Edward Camp; and Thomas, John Breniser, 3,668,433.
 Thomas, John C.: *See—*
 Davies, John G.; and Thomas, John C., 3,645,811.
 Thomas, John C. Battery operated fanning device. 3,647,323, 3-7-72, Cl. 417-234.
 Thomas, John E.: *See—*
 Crowhurst, David B.; and Thomas, John E., 3,641,464.
 Thomas, John Lionel: *See—*
 Desty, Denis Henry; Whyman, Barry Herbert Francis; and Thomas, John Lionel, 3,635,293.
 Thomas, John P., to Ocean Systems, Inc. Method and apparatus for producing oil from underwater wells. 3,638,720, 2-1-72, Cl. 166-5.
 Thomas, Jon G.: *See—*
 Rothschild, Bill F.; Seymour, Fredrick C.; and Thomas, Jon G., 3,653,997.
 Thomas, Joseph, to Maul Bros., Inc. Glassware forming machine blow mold station. 3,642,462, 2-15-72, Cl. 65-242.
 Thomas, Joseph Edward: *See—*
 Torsch, Charles Edward; and Thomas, Joseph Edward, 3,643,125.
 Thomas, Kenneth L.: *See—*
 Koulovatos, James; and Thomas, Kenneth L., 3,679,053.
 Thomas, Klaus: *See—*
 Ost, Walter; Thomas, Klaus; Jerchel, Dietrich; and Linden, Gerbert, 3,641,062.
 Ost, Walter; Thomas, Klaus; and Jerchel, Dietrich, 3,694,454.
 Ost, Walter; Thomas, Klaus; and Jerchel, Dietrich, 3,702,344.
 Ost, Walter; Thomas, Klaus; and Jerchel, Dietrich, 3,707,477.
 Thomas, Leonard L.: *See—*
 Blount, Lester L.; and Thomas, Leonard L., 3,636,960.
 Thomas, Leonard L. Tobacco smoke filter. 3,667,481, 6-6-72, Cl. 131-261.00b.
 Thomas, Lucius Ponder: *See—*
 Owens, Raymond Clyde; and Thomas, Lucius Ponder, 3,668,475.
 Thomas, Manuel A.: *See—*
 Crabtree, Orville R.; and Thomas, Manuel A., 3,649,344.
 Thomas, Manuel A. Preparing pantent press garments by treating with composition therefor. 3,640,675, 2-8-72, Cl. 8-115.6.
 Thomas, Marshall K., Jr.; and Thompkins, James N., to United States of America, Navy. Controlled atmosphere gravity casting system. 3,667,535, 6-6-72, Cl. 164-258.000.
 Thomas, Martha J. B.: *See—*
 Dale, Ernest A.; and Thomas, Martha J. B., 3,654,174.
 Dale, Ernest A.; and Thomas, Martha J. B., 3,668,455.
 Dale, Ernest A.; and Thomas, Martha J. B., 3,676,358.
 Lagos, Costas C.; Fowler, Richard A.; and Thomas, Martha J. B., 3,668,140.
 Thomas, Martha J. B.; Dale, Ernest A.; and Butler, Keith H., to GTE Sylvania Incorporated. Process for making improved phosphate phosphors from monetite. 3,654,173, 4-4-72, Cl. 252-301.4.
 Thomas, Mary R.: *See—*
 Habermann, Clarence E.; and Thomas, Mary R., 3,696,152.
 Jones, Giffin D.; and Thomas, Mary R., 3,636,181.
 Thomas, McKinley B.: *See—*
 Baxter, Calvin J.; and Thomas, McKinley B., 3,700,222.
 Thomas, Merritt H. Nail inserting device. 3,675,839, 7-11-72, Cl. 227-140.000.
 Thomas, Michael Barrie: *See—*
 Gadsby, Brian; Leeming, Peter Rodway; and Thomas, Michael Barrie, 3,686,291.
 Thomas, Michael D. Container with locking actuator. 3,669,300, 6-13-72, Cl. 220-36.000.
 Thomas, Michael D.; and Milovac, Sidney. Eccentric drive film advancing system. 3,671,114, 6-20-72, Cl. 352-185.000.
 Thomas, Morton I. Tabbed anchoring tape means. 3,677,250, 7-18-72, Cl. 128-348.000.
 Thomas, Moses L.: *See—*
 Gray, Roy A.; and Thomas, Moses L., 3,666,541.
 Thomas, Neal C.; and Dippold, Walter J., to Bendix Corporation, The. Microchannel plate with respective face electrodes thereof formed to terminate on one face. 3,662,207, 5-9-72, Cl. 313-104.
 Thomas, Neal C., to Bendix Corporation, The. Shipping container for fragile articles. 3,700,097, 10-24-72, Cl. 206-46.0fr.
 Thomas, Nelson A.: *See—*
 Prosser, Robert M.; and Thomas, Nelson A., 3,687,699.
 Thomas, Nelson Arnold: *See—*
 Himelreich, Louis Eugene, Jr.; and Thomas, Nelson Arnold, 3,634,570.
 Thomas, Orrin H. Connector for battery terminals. 3,644,876, 2-22-72, Cl. 339-114.
 Thomas, Otto: *See—*
 Hess, Karl-Gunter; Himmelsbach, Paul; and Thomas, Otto, 3,656,422.
 Hess, Karl-Gunter; Himmelsbach, Paul; and Thomas, Otto, 3,682,072.
 Thomas, Paul D., to Pfizer Inc. Poultry flavor comprising amino acids, sugars, vegetable protein hydrolysate and 5' ribonucleotides. 3,660,114, 5-2-72, Cl. 99-140.
 Thomas, Paul P., to Winzeler Stamping Company. Combination drawer guide and safety stop. 3,649,087, 3-14-72, Cl. 308-3.6.
 Thomas, Paul W.: *See—*
 Downey, Rogers B.; and Thomas, Paul W., 3,641,896.
 Downey, Rogers B.; and Thomas, Paul W., 3,643,579.
 Thomas, Paula Marion: *See—*
 Block, Burton Peter; Nannelli, Piero Luigi; Gillman, Hyman David; and Thomas, Paula Marion, 3,663,460.
 Thomas, Raymond J.; McDonald, William G.; and Dunning, Walter B., to Eastman Kodak Company. Cardboard box and method of making same. 3,688,625, 9-5-72, Cl. 83-614.000.
 Thomas, Raymond Richard: *See—*
 Craven, George Frederick; and Thomas, Raymond Richard, 3,657,668.
 Thomas, Richard E.; Florence, Robert T.; Dalal, Rustom H.; and Scheuer, Raymond I., to Dick, A. B., Company. Printed sheets containing concealed images and method and materials for preparation and visual development of same. 3,632,364, 1-4-72, Cl. 117-1.7.
 Thomas, Richard K., to General Electric Company. Redirecive dual array antenna. 3,680,112, 7-25-72, Cl. 343-100.0td.
 Thomas, Robert: *See—*
 Durbin, Larry E.; and Thomas, Robert, 3,651,290.
 Thomas, Robert E. Pre-fab form for concrete. 3,677,512, 7-18-72, Cl. 249-48.000.
 Thomas, Robert J.: *See—*
 Tomalia, Donald A.; and Thomas, Robert J., 3,640,957.
 Thomas, Robert L.: *See—*
 Temple, Harry F.; and Thomas, Robert L., 3,650,090.
 Thomas, Robert M.; and Sands, John L., to Great Lakes Chemical Corporation. Dipyrldylum quaternary dihalide halogen complexes. 3,641,041, 2-8-72, Cl. 260-296.
 Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., to Great Lakes Chemical Corporation. Hexa-alkyl-alkylenediamine diquaternary dihalide halogen complexes and their use. 3,646,140, 2-29-72, Cl. 260-567.6.
 Thomas, Robert M.; and Gerns, Fred R., to Great Lakes Chemical Corporation. Phosgene as a novel catalyst for the abnormal addition of HBr to alpha-olefins. 3,655,788, 4-11-72, Cl. 260-663.
 Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., to Great Lakes Chemical Corporation. Dipyrldylum quaternary dihalide halogen complexes. 3,657,256, 4-18-72, Cl. 260-296.
 Thomas, Robert M.; Gerns, Fred R.; and Sands, John L., to Great Lakes Chemical Corporation. Production of dipyrldylum quaternary dihalide dihalogen complexes. 3,658,816, 4-25-72, Cl. 260-250.

- Thomas, Robert M.; and Mamuzic, Rastko I., to Great Lakes Chemical Corporation. Carbonyl halide catalyst for α -bromination of aliphatic acids. 3,661,947, 5-9-72, Cl. 260-408.
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- Thomas, Robert M.; and Levek, Robert P., to Great Lakes Chemical Corporation. Process for the production of halogenated alcohols. 3,681,468, 8-1-72, Cl. 260-633.000.
- Thomas, Ross T. Wheel-type exercise device. 3,649,007, 3-14-72, Cl. 272-33.
- Thomas, Roy D.: *See—*
Chen, Chung-Ho; and Thomas, Roy D., 3,656,003.
- Thomas, Royal David, Jr.; and Norcross, James E., to Arcos Corporation. Pressure vessel and method of making. 3,696,228, 10-3-72, Cl. 219-76.000.
- Thomas, Samuel J. Game having magnetically indexed spinning discs. 3,633,916, 1-11-72, Cl. 273-142.
- Thomas, Samuel L.: *See—*
Springston, George B., Jr.; Thomas, Samuel L.; and Miller, Fred B., 3,677,082.
- Thomas, Seth R.; and Clarke, John F., to Texas Instruments, Incorporated. Method for making thermostat metal. 3,646,591, 2-29-72, Cl. 29-487.
- Thomas, Stephen E. Mechanism for obtaining energy from tire flexure. 3,699,367, 10-17-72, Cl. 310-69.000.
- Thomas, Thomas. Holder for windblown seeds. 3,670,871, 6-20-72, Cl. 206-13.000.
- Thomas, Thomas R.: *See—*
Findeisen, Heinz H.; Kallmeyer, James D.; Sokol David G.; Stein, James H.; Thomas, Thomas R.; and Bowers, Jack R., 3,676,854.
- Thomas, Vitas T.; and Lovdahl, Robert A., to Tomco, Inc. Threaded body rams. 3,687,016, 8-29-72, Cl. 92-130.000.
- Thomas, Walter C. Fire extinguisher. 3,702,157, 11-7-72, Cl. 169-1.00r.
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- Thomas, Werner E., to Massey-Ferguson Industries Limited. Drawer locking system. 3,664,720, 5-23-72, Cl. 312-219.
- Thomas, Wilbur E., to General Binding Corporation. Collator. 3,669,442, 6-13-72, Cl. 270-58.000.
- Thomas, Wilford H.: *See—*
Williams, Kenneth C.; and Thomas, Wilford H., 3,647,838.
- Thomas, Wilford H.; Kobetz, Paul; and Giraitis, Albert P., to Ethyl Corporation. Organolead manufacture. 3,661,952, 5-9-72, Cl. 260-437.
- Thomas, William E.; and Roush, Gale S., to Phillips Petroleum Company. Edge protector. 3,637,234, 1-25-72, Cl. 280-179.
- Thomas, William E., to Phillips Petroleum Company. Explosive device and container. 3,677,180, 7-18-72, Cl. 102-24.00r.
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- Thomas, William Raymond, to Armour Pharmaceutical Company. Pyridazine reagents and means for stabilizing blood platelets therewith. 3,634,581, 1-11-72, Cl. 424-3.
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- Thomason, Roger B., to Arvin Industries, Inc. Frequency lock-in preset tuning system. 3,704,422, 11-28-72, Cl. 325-422.000.
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- Thomasson, Gene I.: *See—*
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- Thominet, Michel Leon, to Societe d'Etudes Scientifiques et Industrielles de l'ile-de-France. Method of anesthetizing mammals with N-(tertiary amino-alkyl)-benzamides. 3,644,644, 2-22-72, Cl. 424-324.
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- Thomka, Laddie M., to Dow Chemical Company. The. Pre-formed meat package. 3,690,903, 9-12-72, Cl. 99-174.000.
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- Thompkins, James N.: *See—*
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- Thompson, Albion J., to Great Northern Nekoosa Corporation. Line sampling device. 3,659,461, 5-2-72, Cl. 73-422.0tc.
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- Thompson, Alvin E., to Philco-Ford Corporation. Push-button key assembly. 3,680,394, 8-1-72, Cl. 74-10.330.
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- Thompson, Anthony Sigston: *See—*
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- Thompson, Arnold M. Croquet wicket assembly. 3,695,610, 10-3-72, Cl. 273-56.000.
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- Thompson, Burton J., to Sundstrand Data Control, Inc. Servoed transducer system with current output circuit. 3,678,374, 7-18-72, Cl. 323-90.000.
- Thompson, Charles B., to Aluminum Company of America. Hot dip aluminizing alloy. 3,639,107, 2-1-72, Cl. 29-196.2.
- Thompson, Charles E., to Esso Research and Engineering Company. Method of treating exhaust gases of external combustion engines. 3,637,344, 1-25-72, Cl. 23-2.
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Allen, Robert E.; Thompson, Charles R.; and Hidalgo, John, 3,655,680.
- Thompson, Charles S.: *See—*
Hay, Wayne W.; and Thompson, Charles S., 3,633,606.
- Thompson, Charles W.: *See—*
Kasecky, Joseph J.; and Thompson, Charles W., 3,707,252.
- Thompson Chemicals, Inc.: *See—*
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- Thompson, Courtenay M. Apparatus for removing crankcase. 3,649,139, 3-14-72, Cl. 417-568.
- Thompson, Cullen R., to Shell Oil Company. Mining ventilation method. 3,695,714, 10-3-72, Cl. 299-12.000.
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- Thompson, David A.: *See—*
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- Thompson, David Crompton: *See—*
Jack, James; Drake, John; Thompson, David Crompton; and Harris, Frederick John, 3,679,391.
- Thompson, David E.: *See—*
Kreuzer, John A.; and Thompson, David E., 3,699,891.

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- Thompson, Earl Clayton. Water dispenser for animals. 3,698,431, 10-17-72, Cl. 137-604.000.
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- Thompson, Edwin P.: *See—*
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- Thompson, Edwin R., to Thompson-Canfield Inc. Mounting device for weather sealing inserts in doors. 3,668,807, 6-13-72, Cl. 49-482.000.
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Thompson, Earl A., 3,704,746.
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- Thompson, Francis I., to Westinghouse Electric Corporation. Dual answer mode teaching system. 3,693,268, 9-26-72, Cl. 35-48.00r.
- Thompson, Francis T.: *See—*
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- Watson, John D.; Thompson, Francis T.; and Johnson, Frederick O., 3,666,994.
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- Thompson, George J.: *See—*
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- Thompson, George L. Retrievable density control valve. 3,675,714, 7-11-72, Cl. 166-224.000.
- Thompson, George W.; and Oak, John T., to Continental Can Company, Inc. Necked-in can body and method and apparatus for making same. 3,690,279, 9-12-72, Cl. 113-120.0aa.
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- Thompson, Glen M. Fishing rod carrier for bicycles. 3,648,908, 3-14-72, Cl. 224-37.
- Thompson, Glenn H. Dental floss holder. 3,642,011, 2-15-72, Cl. 132-91.
- Thompson, Glenn S., to Koehring Company. Piston and rod assembly. 3,654,839, 4-11-72, Cl. 92-200.
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- Thompson, Grant; and Wall, Bobby M., to Thiokol Chemical Corporation. Method of curing propellants containing carboxyl terminated polyalkadienes using an organic iron salt. 3,698,967, 10-17-72, Cl. 149-19.000.
- Thompson, Hal J., to DCA Food Industries, Inc. Comestible stabilizer composition. 3,669,688, 6-13-72, Cl. 99-139.000.
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- Thompson, Harold K., to American Telephone and Telegraph Company. Communication system traffic survey arrangement. 3,639,702, 2-1-72, Cl. 179-175.2.
- Thompson, Harold P.: *See—*
Cahill, Lysle D.; Feller, John; Marshall, William W.; Thomas, Edward R.; and Thompson, Harold P., 3,689,693.
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- Thompson, Herbert Lytle, to Universal Oil Products Company. Aromatic hydrocarbon recovery method. 3,702,295, 11-7-72, Cl. 208-321.000.
- Thompson, Howard D. Tube float or boat. 3,696,451, 10-10-72, Cl. 9-2.00a.
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Thorsrud, Ole J.; and Thompson, Howard G., 3,662,839.
- Thompson, Ivan M.: *See—*
Maskal, John; Thompson, Ivan M.; and Heikel, Henrik R., 3,639,158.
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- Thompson, James C.: *See—*
Bailey, Loren C., 3,675,735.
- Thompson, James E.: *See—*
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- Thompson, James E.; and Martin, James B., to Procter & Gamble Company. The. Complete short-chain esters of polyol mono-(acidic lipid) esters. 3,634,397, 1-11-72, Cl. 260-234.
- Thompson, James E., to Motorola, Inc. Sample and hold trigger circuit. 3,638,041, 1-25-72, Cl. 307-247.
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- Thompson, James E., to Motorola, Inc. Sinusoidal and square wave oscillator with automatic gain control. 3,649,929, 3-14-72, Cl. 331-61.
- Thompson, James E. Aerial twister toy and catapult therefor. 3,691,674, 9-19-72, Cl. 46-74.00r.
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- Thompson, James Elbert, to Motorola, Inc. Voltage controlled multivibrator. 3,665,343, 5-23-72, Cl. 331-113.00r.
- Thompson, James K., to Phillips Petroleum Company. Container protective edge component. 3,636,608, 1-25-72, Cl. 29-183.5.
- Thompson, James M.: *See—*
Revitz, Martin; and Thompson, James M., 3,701,931.
- Thompson, James O.: *See—*
Champ, Robert B.; Jurgens, Henry A.; and Thompson, James O., 3,640,714.
- Thompson, James W.: *See—*
Clifford, Alan F.; Rhyne, Thomas C.; and Thompson, James W., 3,666,784.
- Ruth, Harold C.; and Thompson, James W., 3,698,487.
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Fitzpatrick, Hugh M.; Neville, James J.; Thompson, John; and Boggs, Fitzhugh W., 3,648,226.

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- Thompson, John A.; and Wisdom, William H., said Thompson assor. to said Wisdom, William H. Portable rug dyeing machine and method. 3,681,006, 8-1-72, Cl. 8-149.100.
- Thompson, John F., to Weaver, W. R., Company. Scope tube with ocular retainer ring. 3,696,516, 10-10-72, Cl. 33-245.000.
- Thompson, John J., Jr.: See—
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- Viner, Derek G.; and Thompson, John S., 3,660,881.
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- Anderson, Karl R., 3,699,284.
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- Thompson, Joseph: See—
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- Thompson, Josephus B.; deceased (by Stade, K. E.; administrator), to Columbia Broadcasting System, Inc. Snare drum having tapered and flanged cast metal shell, and cast strainer-mounting means. 3,635,119, 1-18-72, Cl. 84-411.
- Thompson, Kirk L.: See—
- Marsh, Frederick L.; and Thompson, Kirk L., 3,663,304.
- Thompson, Lawrence E. Method and apparatus for making perforated sign templates. 3,705,291, 12-5-72, Cl. 219-384.000.
- Thompson, Lloyd M. Radioactive macroaggregates of serum albumin. 3,674,900, 7-4-72, Cl. 424-1.000.
- Thompson, Lloyd W.; deceased (by Thompson, Mildred B.; administratrix), to Cone Mills Corporation, mesne. Method and apparatus for constructing fabric enclosed springs. 3,668,816, 6-13-72, Cl. 53-28.000.
- Thompson, Luther G.: See—
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- Thompson, Michael Ainley, to Lucas, Joseph, (Industries) Limited. Thyristor circuits. 3,639,783, 2-1-72, Cl. 307-252.
- Thompson, Mildred B.: See—
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- Thompson, Morice William, to Imperial Chemical Industries Limited. Benzene polycarboxylic acid esters. 3,639,329, 2-1-72, Cl. 260-31.4.
- Thompson, Morice William; and Walbridge, Derek John, to Imperial Chemical Industries Limited. Process for preparing a dispersion of polymer particles in an organic liquid. 3,686,114, 8-22-72, Cl. 260-34.200.
- Thompson, N. H., Jr., to Superior Bands, Inc. Elastic power transmission belt. 3,631,733, 1-4-72, Cl. 74-238.
- Thompson, Neil J.: See—
- Dean, Frank J., Jr.; and Thompson, Neil J., 3,687,055.
- Thompson, Norman John: See—
- Broderick, Rory Wilson, 3,664,548.
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- Thompson, Owen R., to Eaton Corporation. Water-cooled viscous coupling. 3,661,237, 5-9-72, Cl. 192-58.
- Thompson, Paige W., to General Electric Company. Condition responsive switch mechanism. 3,654,578, 4-4-72, Cl. 337-317.
- Thompson, Paul, to Conrac Corporation. Microphone cartridge with amplifier. 3,660,602, 5-2-72, Cl. 179-1.
- Thompson, Philip H. Practice device. 3,680,230, 8-1-72, Cl. 35-74.000.
- Thompson, Phillip G.: See—
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- Thompson, Phillip G., to Minnesota Mining and Manufacturing Company. Fluoroxidants. 3,692,815, 9-19-72, Cl. 260-453.00r.
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- Thompson, Quentin E., to Monsanto Company. Sewage disposal system. 3,706,664, 12-19-72, Cl. 210-65.
- Thompson, Ralph Brewster, to Nalco Chemical Company. Electrolytic softening of water. 3,652,433, 3-28-72, Cl. 204-152.
- Thompson, Ransom S.: See—
- Pinto, James C.; and Thompson, Ransom S., 3,662,957.
- Thompson, Ray E.: See—
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- Thompson, Rayford L. Game ball. 3,687,452, 8-29-72, Cl. 273-58.00a.
- Thompson, Raymond; and Guest, Ashley W., to Plessey Company Limited, The. Differential phase shift keying modulation system. 3,699,479, 10-17-72, Cl. 332-16.00r.
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- Hunter, John M.; and Thompson, Raymond V., 3,661,059.
- Thompson, Raymond V., to Chandler Evans Inc. Vertical lift machine. 3,697,020, 10-10-72, Cl. 244-12.000.
- Thompson, Richard, to Lisk, G. W., Company, Inc. Solenoid construction. 3,633,139, 1-4-72, Cl. 335-255.
- Thompson, Richard D.: See—
- Beeley, Michael G.; Frisby, Paul W.; and Thompson, Richard D., 3,644,085.
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- Thompson, Richard D., to McGraw-Edison Company. Multiple station laundry feeder and control therefor. 3,664,046, 5-23-72, Cl. 38-143.000.
- Thompson, Richard F., to Husted, Royce Hill. Power ski. 3,645,348, 2-29-72, Cl. 180-5.
- Thompson, Richard L., to General Electric Company. Lamp support device. 3,694,649, 9-26-72, Cl. 240-153.000.
- Thompson, Robert B.: See—
- Machell, Eugene F.; Wylie, John E.; and Thompson, Robert B., 3,662,013.
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- Thompson, Robert C., to Brunswick Corporation. Lane resurface level control including a variable dead band motor control. 3,702,149, 11-7-72, Cl. 144-117.00c.
- Thompson, Robert G., to Du Pont de Nemours, E. I., and Company. Products. 3,635,902, 1-18-72, Cl. 260-75.
- Thompson, Robert H., to Van Dorn Company. Apparatus for controlling an injection molding machine. 3,647,309, 3-7-72, Cl. 425-139.
- Thompson, Robert I. Composite cube puzzle formed of numeral bearing component cube groups. 3,638,949, 2-1-72, Cl. 273-157.
- Thompson, Robert I. Three-dimensional checker game apparatus. 3,656,755, 4-18-72, Cl. 273-131.
- Thompson, Robert M.: See—
- Czurak, Richard H.; and Thompson, Robert M., 3,705,794.
- Thompson, Robert M., to Sun Oil Company. Preparation of 2,5-dimethylhexadienes. 3,692,743, 9-19-72, Cl. 260-681.000.
- Thompson, Robert O.; Stark, William M.; and Higgins, Calvin E., to Lilly, Eli, and Company. Antibiotic nebramycin and preparation thereof. 3,691,279, 9-12-72, Cl. 343-7.7.
- Thompson, Robert R., to Amoco Production Company. Conversion of underground sulfur deposits. 3,645,551, 2-29-72, Cl. 299-5.
- Thompson, Ronald: See—
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- Thompson, Ronald E.: See—
- Ryan, Patrick W.; and Thompson, Ronald E., 3,652,520.
- Thompson, Roy G., to Sale-Niagara, Inc. Ticket envelope. 3,655,119, 4-11-72, Cl. 229-72.
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- Thompson, Sheldon. Vacuum chuck and related apparatus and methods. 3,652,075, 3-28-72, Cl. 269-21.
- Thompson, Sheldon L.; Kress, Rene F.; Olenzak, Albert T.; and Steinmetz, Ib, to Sun Oil Company of Pennsylvania. Oil stabilizing sequential hydrocracking and hydrogenation treatment. 3,666,657, 5-30-72, Cl. 208-58.000.
- Thompson, Theodore G., to Chris-Craft Industries, Inc. Outboard motorboat with inboard mount. 3,702,485, 11-14-72, Cl. 9-6.000.
- Thompson, Thomas L. Abrasive motor slot cleaning nozzle. 3,662,497, 5-16-72, Cl. 51-11.000.
- Thompson, Tom H. Fail-safe hydraulic brake apparatus. 3,666,059, 5-30-72, Cl. 188-106.00r.
- Thompson, Tom H. Disc brake caliper assembly. 3,675,742, 7-11-72, Cl. 188-72.500.
- Thompson, Tom H. Hydraulic disc brake construction. 3,675,743, 7-11-72, Cl. 188-72.500.
- Thompson, Tommy Lewis, to Life Support, Inc. Chemical oxygen generator. 3,702,305, 11-7-72, Cl. 252-187.000.
- Thompson, Vernon R.: See—
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- Hayes, Lester P.; Jones, Rexford W.; and Thompson, William B., 3,637,385.
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- Jones, Rexford W.; and Thompson, William B., 3,677,759.
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- Thompson, William H.: See—
- Woolley, Edward R.; and Thompson, William H., 3,695,618.
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- La Barbera, Robert R., 3,692,916.
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- Thomson, John Crawford, to Tube Headings Limited. Construction of tunnels. 3,631,680, 1-4-72, Cl. 61-42.
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- Bundschuh, John J.; Roman, Robert J.; and Thomson, Kenneth W., 3,703,333.
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- Babb, Raymond E., 3,669,263.
- Daugherty, Ralph K., 3,665,987.
- Elliott, Melvin R., 3,640,378.
- Green, Chester, 3,651,925.
- Lazzarini, Louis P., 3,642,520.
- Thomson, Lois J.; as trustee of the estate of: See—
- Daugherty, Ralph K., 3,665,987.
- Thomson, Lois J.; formerly: See—
- Babb, Raymond E., 3,669,263.
- Thomson, Lois J.; trustees of the estate of: See—
- Green, Chester, 3,651,925.
- Thomson, Lois J.; trustees of the estate of: See—
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- Baumann, Poul H., 3,661,240.
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- Duncan, Richard A., 3,665,686.
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- Frederick, Charles D.; Dembny, Kenneth D.; and Thomson, Meredith C., 3,690,002.
- Thomson-CSF: See—
- Assouline, George; Leiba, Eugene; and Spitz, Erich, 3,663,086.
- Assouline, George; Conjeaud, Pierre; Girault, Pierre; and Leiba, Eugene, 3,671,963.
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- Aucouturier, Jeanne; and Lacaze, Rene, 3,671,895.
- Bensussan, Andre, 3,649,868.
- Bertheas, Jean, 3,639,695.
- Brenot, Claude; and Mollard, Gaston, 3,702,562.
- Brun, Henri; and Meilleroux, Jean-Louis, 3,641,426.
- Brun, Henri, 3,652,926.
- Brun, Henri, 3,687,517.
- Carbonel, Michel, 3,650,908.
- Carpentier, Michel F.; and Guilhem, Robert G. L., 3,657,738.
- Carre, Roland, 3,706,990.
- Combe, Christian; Clouet, Andre; Marchal, Michel; Villard, Michel; and Grenier, Pierre, 3,658,680.
- Constantin, Jean-Claude, 3,704,826.
- DeCremoux, Baudoin; and Leclerc, Pierre, 3,656,836.
- Deman, Pierre; and Gouyet, Jean Pierre, 3,648,248.
- Diamand, Felix, 3,639,851.
- Dieulesaint, Eugene; and Hartemann, Pierre, 3,663,899.
- Dieulesaint, Eugene Jean; and Hartman, Pierre, 3,706,055.
- Epszstein, Bernard, 3,689,782.
- Galves, Jean-Pierre; Monfroy, Henri; and Reboul, Jean-Philippe, 3,706,899.
- Guenard, Pierre, 3,676,791.
- Hartemann, Pierre, 3,633,132.
- Henry, Dominique, 3,684,963.
- Kantorowicz, Gerard, 3,666,984.
- Kantorowicz, Gerard, 3,699,379.
- Lagrange, Alain; Nicolas, Jean; and Sroussi, Roland, 3,657,131.
- Le Parquier, Guy Francis; Poinard, Henri Charles; and Jullien, Marie-Jacques, 3,636,561.
- Leboutet, Hubert; Jaouen, Jean; and Aucouturier, Jeanne, 3,660,658.
- Leboutet, Hubert, 3,691,374.
- Leonard, Didier; and Pautrat, Rene, 3,654,442.
- Malnar, Leon; and Meilleroux, Jean-Louis, 3,651,394.
- Marcy, Raymond; Bouygues, Jean; and Lacombe, Michel, 3,692,413.
- Matricon, Marcel, 3,641,665.
- Moreau, Jean-Noel, 3,680,012.
- Morgand, Jean Paul; Magnan, Henri; and Romagny, Bernard, 3,651,253.
- Picquendar, Jean Edgar; and Torguet, Roger, 3,641,513.
- Poinard, Henri; and Jullien, Marie-Jacques, 3,651,412.
- Poinard, Henri, 3,680,102.
- Poussin, Antoine, 3,680,004.
- Resneau, Jean-Claude, 3,695,954.
- Ribout, Pierre, 3,650,429.
- Rosatelli, Carlo; and Shroff, Arvind, 3,646,320.
- Skenderoff, Claude, 3,644,889.
- Spitz, Erich, 3,637,307.
- Tinet, Claude; and Misme, Pierre, 3,636,768.
- Turteltaub, Max, 3,634,790.
- Ursenbach, Francois, 3,646,482.
- Van Kai, Tran, 3,683,339.
- Vergnolle, Claude, 3,705,366.
- Yeou, Ta, 3,648,198.
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- Gaffard, Jean Paul; Glangeaud, Yves; and Suppo, Jose, 3,632,868.
- Peronneau, Georges, 3,696,391.
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Thomson, P. D. Rural mail box. 3,680,773, 8-1-72, Cl. 232-17.000.
 Thonnes, Martin: *See—*
 Witten-Annen, Hans Lewer; Dust, Hanspeter; and Thonnes, Martin, 3,681,246.
 Thoonen, Theodor J., to Verenigde Kunststembfabrieken Mekog-Albatras N.V. Process for the preparation of anhydrous aluminium fluoride. 3,647,366, 3-7-72, Cl. 23-83.
 Thor, Charles C. Removable silage chopper. 3,664,098, 5-23-72, Cl. 56-13.9.
 Thor, Gunter: *See—*
 Meye, Reinhold Walter; and Thor, Gunter, 3,663,671.
 Thor Power Tool Company: *See—*
 Flagg, Andrew, 3,686,983.
 Plunkett, Larry E.; and Rees, Spencer C., 3,652,879.
 Rees, Spencer C., 3,651,707.
 Vonhoff, William, Jr., 3,696,834.
 Thorborg, Kjeld: *See—*
 Hermansson, Bo; and Thorborg, Kjeld, 3,699,425.
 Thorborg, Kjeld, to Allmanna Svenska Elektriska Aktiebolaget. Synchronising device. 3,703,644, 11-21-72, Cl. 307-64.000.
 Thoreson, Robert E.: *See—*
 McLeod, John H., Jr.; and Thoreson, Robert E., 3,645,505.
 Thoreson-McCosh, Inc.: *See—*
 McLeod, John H., Jr.; and Thoreson, Robert E., 3,645,505.
 Thorington, Luke; and Parascandola, Louis J., to Duro-Test Corporation. Electric lamps producing energy in the visible and ultra-violet ranges. 3,670,193, 6-13-72, Cl. 313-108.00r.
 Thorkelson, Oswald: *See—*
 Spilsbury, Ashton James; and Thorkelson, Oswald, 3,671,972.
 Thorn, Caryl A.: *See—*
 Cormier, Roger L.; Sorg, John H., Jr.; and Thorn, Caryl A., 3,688,274.
 Thorn Electrical Components Limited: *See—*
 Williams, David Christopher Robert, 3,675,344.
 Thorn Electrical Industries Limited: *See—*
 Bruce, Joseph A. G.; Levy, Henry M.; and Oborn, Pyliss, 3,635,660.
 Ward, Harold Francis, 3,650,974.
 Thorn Electronics Limited: *See—*
 Farrow, Victor, 3,703,677.
 Isaac, Anthony Leonard, 3,668,467.
 Thorn, Jürgen: *See—*
 Hintringer, Otmar; Koniger, Walter; and Thorn, Jürgen, 3,641,351.
 Thorn, Jürgen; and Moritz, Horst, to Siemens Aktiengesellschaft. Radiation sensitive device utilizing a laser beam to measure the displacement of an object. 3,649,840, 3-14-72, Cl. 250-231.
 Thorn Lighting Limited: *See—*
 Beeson, Eric John George; and Stanyon, Horace Edward, 3,634,715.
 Clarke, Maurice George; and Burgess, Norman, 3,700,951.
 Coaton, James Richard; and Rees, John Michael, 3,644,773.
 Stanyon, Horace Edward; Robinson, Kenneth Buckley; and Beeson, Eric John George, 3,660,711.
 Thorn, Roy B. Mobile hydraulic fruit picker. 3,690,053, 9-12-72, Cl. 56-328.00r.
 Thorn-Bendix Limited: *See—*
 Noxon, Paul Adelbert, 3,650,627.
 Thornbery, James M.: *See—*
 Strathearn, Donald M.; Thornbery, James M.; and Willcox, Dale F., 3,650,157.
 Thornburg, David Lawrence: *See—*
 Month, Alfred; and Thornburg, David Lawrence, 3,653,883.
 Thornburgh, William F., to General Motors Corporation. Ignition timing and throttle position control. 3,643,526, 2-22-72, Cl. 74-860.
 Thornecroft, Roy Charles: *See—*
 Gara, George; and Thornecroft, Roy Charles, 3,657,486.
 Thorne, Arthur Robert Hamilton, to Crabtree, J. A., & Co., Limited. Overload tripping devices for electric motor starting switches. 3,638,158, 1-25-72, Cl. 337-49.
 Thorne, David E., to Beecham Group Limited. Acetyl glycine amides. 3,657,341, 4-18-72, Cl. 260-558.
 Thorne, John Paul, to Newcor, Inc. D.C. can welder. 3,632,949, 1-4-72, Cl. 219-64.
 Thorne-Booth, George M.: *See—*
 Rhoton, Richard S.; and Thorne-Booth, George M., 3,657,663.
 Thorne-Booth, George M., to Westinghouse Electric Corporation. Vehicle control system and method. 3,672,611, 6-27-72, Cl. 246-28.00r.
 Thorne-Thomsen, Thomas, to Olin Mathieson Chemical Corporation. Quick connect-disconnect hose coupling. 3,635,501, 1-18-72, Cl. 285-34.
 Thornell, Ernest La Verne, to Marlin Toy Products, Inc. Musical wristwatch toy. 3,706,156, 12-19-72, Cl. 46-175.00r.
 Thornhill, William J.; and Welty, Richard O., to Phillips Petroleum Company. Signal generation. 3,649,842, 3-14-72, Cl. 307-106.
 Thornley, Clive E.: *See—*
 Petite, Anthony M.; and Thornley, Clive E., 3,700,405.

Thornley, Richard F. M., to International Business Machines Corporation. Recorded signal enhancing apparatus and method. 3,665,429, 5-23-72, Cl. 340-174.10h.
 Thornsbery, George W., to United States Steel Corporation. Apparatus for automatically centering strip. 3,643,791, 2-22-72, Cl. 198-184.
 Thornton, Charles G.: *See—*
 daCosta, Harry; and Thornton, Charles G., 3,631,645.
 Thornton, Duane V.: *See—*
 O'Leary, Walter E.; Thornton, Duane V.; Hammonds, James C.; and Dare, Roy R., 3,678,866.
 O'Leary, Walter E.; and Thornton, Duane V., 3,693,554.
 Thornton, Duane V., to ACF Industries, Incorporated. Movable cover for railway flat cars. 3,670,664, 6-20-72, Cl. 105-377.600.
 Thornton, Dudley. Guide for aiming a cue ball at an object ball. 3,704,887, 12-5-72, Cl. 273-6.000.
 Thornton, Henry M.: *See—*
 Munchel, Eugene A.; and Thornton, Henry M., 3,679,319.
 Thornton, James. Reusable forms for casting columns. 3,672,626, 6-27-72, Cl. 249-48.000.
 Thornton, James M., to Vesuvius Crucible Company. Stopper structure and combination of bottom pour receptacle and stopper. 3,632,026, 1-4-72, Cl. 222-559.
 Thornton, La Verne; and Stuart, Gerald L., to Forrest Paschal Machinery Company. Apparatus for sensing and ejecting bricks of improper size. 3,666,093, 5-30-72, Cl. 209-74.000.
 Thornton, Marvin L., to Ciba-Geigy Corporation. Adapter for filling head for filling aerosol dispenser. 3,636,993, 1-25-72, Cl. 141-20.
 Thornton, Richard C.: *See—*
 Alexander, Newton C.; Stark, Herbert; and Thornton, Richard C., 3,670,585.
 Thornton, Richard D.; and Borky, John M., to Massachusetts Institute of Technology. Power semiconductor device with negative thermal feedback. 3,667,064, 5-30-72, Cl. 330-23.000.
 Thornton, Roger Lea: *See—*
 Settlege, Paul Herman; and Thornton, Roger Lea, 3,701,745.
 Thornton, William A., to Westinghouse Electric Corporation. Discharge device which utilizes a mixture of two fluorescent materials. 3,707,641, 12-26-72, Cl. 313-109.000.
 Thornton, William A., Jr.; and Ungler, Melvin C., to Westinghouse Electric Corporation. Color-corrected high-pressure mercury-vapor lamp. 3,670,194, 6-13-72, Cl. 313-109.000.
 Thornton, William A., Jr., to Westinghouse Electric Corporation. Vapor lamp which incorporates a special phosphor coating. 3,707,642, 12-26-72, Cl. 313-109.000.
 Thornton, William S. Changeable sign. 3,673,720, 7-4-72, Cl. 40-125.00r.
 Thornton-Trump, Walter E. Orchard machine. 3,667,190, 6-6-72, Cl. 53-59.
 Thornton-Trump, Walter Edward. Low level washing and dusting apparatus for aircraft and the like. 3,680,164, 8-1-72, Cl. 15-21.00e.
 Thorp, Jeffrey Meyrick: *See—*
 Leigh, Thomas; Thorp, Jeffrey Meyrick; and Waring, Wilson Shaw, 3,652,646.
 Thorp, Ralph E., to Globe Valve Corporation. Externally adjustable bathtub wire system and means for and method of externally adjusting same. 3,656,188, 4-18-72, Cl. 4-199.
 Thorp, Richard Conrad, to American Can Company. Easy opening container closure. 3,701,454, 10-31-72, Cl. 220-54.000.
 Thorp, William; and Jones, Charles Trevor, to Ferranti Limited. Semiconductor strain transducers. 3,662,312, 5-9-72, Cl. 338-4.
 Thorpe, Allan C., to International Business Machines Corporation. Operator guidance system. 3,631,606, 1-4-72, Cl. 35-8.
 Thorpe, David, to Richmond Marine Limited. Storage containers for use in marine craft. 3,674,170, 7-4-72, Cl. 220-18.000.
 Thorpe, Eric Frederick James: *See—*
 Scollick, Neil Montgomery; and Thorpe, Eric Frederick James, 3,689,502.
 Thorpe, Ervin T., to Des Moines Asphalt & Paving Company. Method of dehydrating wet soil. 3,656,306, 4-18-72, Cl. 61-36.
 Thorpe, Laurence Joseph, to RCA Corporation. Special effects generators for providing iris-type television displays. 3,671,667, 6-20-72, Cl. 178-6.800.
 Thorpe, Laurence Joseph, to RCA Corporation. Special effects generator. 3,689,694, 9-5-72, Cl. 178-6.800.
 Thorpe, Merle L.: *See—*
 Poole, John W.; Thorpe, Merle L.; and Vogel, Charles E., 3,694,618.
 Thorpe, Richard S.: *See—*
 Lubowitz, Hyman R.; Kendrick, William P.; Jones, John F.; Thorpe, Richard S.; and Burns, Eugene A., 3,647,529.
 Thorpe, Walter: *See—*
 Brandestini, Antonio; and Thorpe, Walter, 3,657,798.
 Thorsell, Leif Urban Folke: *See—*
 Weibull, Bengt J. G.; Thorsell, Leif Urban Folke; and Lindstrom, Sven-Olof, 3,697,598.
 Thorsell, Paul W.: *See—*
 Erby, William A.; Thorsell, Paul W.; and Ilagan, Perlita A., 3,661,796.

Thorsen, Walter J., to United States of America, Agriculture. Shrinkproofing of animal fibers by passing said through an electrical discharge zone containing ozone. 3,632,299, 1-4-72, Cl. 8-128.
 Thorsman, AB & Co.: *See—*
 Thorsman, Oswald Willy, 3,633,148.
 Thorsman, Oswald Willy, to Thorsman, AB & Co. Current transmitting coupling between electric lines. 3,633,148, 1-4-72, Cl. 335-19.
 Thorsoe, Flemming; and Jensen, Arne, to Danfoss A/S. Step switch. 3,646,365, 2-29-72, Cl. 307-252.
 Thorsrud, Ole J.; and Thompson, Howard G., to Massey-Ferguson Inc. Earthworking implement. 3,662,839, 5-16-72, Cl. 172-266.
 Thorstenson, Rolf A., to Avco Corporation. Turbine blade having a cooled laminated skin. 3,672,787, 6-27-72, Cl. 416-97.000.
 Thorud, Richard A., to Toro Manufacturing Corporation. Folding handle latch. 3,649,997, 3-21-72, Cl. 16-111.
 Thorud, Richard A.; Snegoski, James J.; and Hasenbank, Kenneth N., to Toro Manufacturing Corporation. Electric start for mowers. 3,696,593, 10-10-72, Cl. 56-17.500.
 Thorwest, Harald; Lehmann, Helmut; Lange, Helmut; Schlossarek, Udo; Siefen, Jakob; and Mathner, Hermann, to Agfa-Gevaert Aktiengesellschaft. Method of and apparatus for checking the sealing of a film cassette. 3,688,567, 9-5-72, Cl. 73-88.00b.
 Thourson, Thomas L.; and Hauser, Oscar G., to Xerox Corporation. Forms overlay technique using tesi. 3,653,891, 4-4-72, Cl. 96-1.
 Thow, Ian: *See—*
 Toth, Bela M.; and Thow, Ian, 3,667,447.
 Thow, Lawrence E.: *See—*
 Slater, William W.; and Thow, Lawrence E., 3,640,926.
 Thraikill, Arthur E.; and Lewis, Herbert N., to United States of America, Army. Method for reducing shot dispersion. 3,656,433, 4-18-72, Cl. 102-42.000.
 Thraikill, Howard A.: *See—*
 Conroy, Thomas P.; Fredrickson, Walter G.; and Thraikill, Howard A., 3,685,019.
 Fredrickson, Walter G.; Jones, George M.; and Thraikill, Howard A., 3,688,275.
 Thrap, Guy A., to California Instruments Co. Method and circuit for providing a frequency meter having improved gate period means. 3,694,745, 9-26-72, Cl. 324-78.00d.
 Thrash, David J.: *See—*
 Fekete, Frank; Thrash, David J.; and Pulman, Leonard J., 3,698,981.
 Thrasher, Elbridge W., to Masonite Corporation. Method and apparatus for operating a rotary saw. 3,645,304, 2-29-72, Cl. 143-169.
 Thrasher, John Peter, to Gureckis, Peter V. Underground radio communication system for roadways. 3,673,497, 6-27-72, Cl. 325-180.000.
 Threadline Fastener Corporation: *See—*
 Coyle, Jan R., 3,687,181.
 Rohm, Robert F., 3,687,183.
 Three Way, Inc.: *See—*
 Hinson, James L., 3,696,870.
 Three-Line Research and Developments Company, Inc.: *See—*
 Quinn, Governor V., 3,685,824.
 Threewitt, Walter M.: *See—*
 Dillon, Vearl Joseph; and Threewitt, Walter M., 3,652,838.
 Threshold Engineering, Inc.: *See—*
 D'Ausilio, Robert F.; and Updegraff, Robert E., 3,688,256.
 Thrissell, Scott Engineering Limited: *See—*
 Pym, Michael Aren, 3,687,072.
 Thrive Centers, Inc.: *See—*
 Newton, N. Keith, 3,658,305.
 Throckmorton, Charles D., Sr.: *See—*
 Pollman, Frederic W.; Frandsen, Lee R.; and Throckmorton, Charles D., Sr., 3,690,793.
 Throckmorton, Morford C.: *See—*
 Judy, William A.; and Throckmorton, Morford C., 3,652,529.
 Throckmorton, Morford C., to Goodyear Tire & Rubber Company. The Binary catalyst system for the polymerization of diolefins. 3,640,989, 2-8-72, Cl. 260-99.3.
 Throckmorton, Morford C., to Goodyear Tire & Rubber Company. The System for the polymerization of conjugated diolefins. 3,649,605, 3-14-72, Cl. 260-82.1.
 Throckmorton, Morford C., to Goodyear Tire & Rubber Company. The Preparation of high 1,4-polybutadienes. 3,657,205, 4-18-72, Cl. 260-82.1.
 Throckmorton, Morford C.; and Saitman, William M., to Goodyear Tire & Rubber Company. The Diolefins ternary catalyst systems for the polymerization of conjugated. 3,676,411, 7-11-72, Cl. 260-82.100.
 Throckmorton, Peter E., to Ashland Oil, Inc. Process for preparing heterocyclic polyols and ether derivatives. 3,644,404, 2-22-72, Cl. 260-327.
 Thron, John E.; Woods, William E.; Bellettiere, Ronald; and Stein, Howard, to Honeywell Inc. Multiprogrammable, multiprocessor computer system. 3,648,252, 3-7-72, Cl. 340-172.5.
 Thron, William E.: *See—*
 Galbraith, Lyle D.; and Thron, William E., 3,640,083.

Throop, Lewis J., to Syntex Corporation. Preparation of 9,11-dichloro steroids. 3,674,778, 7-4-72, Cl. 260-239.55d.
 Thrower, Keith R., to Racal Instruments Limited. Frequency synthesizing system. 3,702,441, 11-7-72, Cl. 328-14.000.
 Thrun, Paul H. Vehicle pollution control unit. 3,700,029, 10-24-72, Cl. 165-51.000.
 Thubeauville, Heinz: *See—*
 Grumm, Walter; and Thubeauville, Heinz, 3,705,087.
 Niedner, Peter; Diez, Gerhard; and Thubeauville, Heinz, 3,647,357.
 Thuillier, Yvonne, to Rolland, Albert, S.A. Process for obtaining and preserving stable bacterial variants. 3,669,846, 6-13-72, Cl. 195-96.000.
 Thuillier, Yvonne, to Laboratories Albert Rolland. Process for obtaining extracts from animal tissues. 3,676,551, 7-11-72, Cl. 424-103.000.
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 Thuillier, Yvonne. Compositions containing a heart extract. 3,691,274, 9-12-72, Cl. 424-95.000.
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 Thum, Waldemar: *See—*
 Bergmeyer, Hans Ulrich; Gruber, Wolfgang; Moellering, Hans; and Thum, Waldemar, 3,645,851.
 Bergmeyer, Hans Ulrich; Naher, Gotthilf; Thum, Waldemar; Lauener, Albert; and Emmer, Rudolf, 3,677,901.
 Bergmeyer, Hans Ulrich; Gruber, Wolfgang; Thum, Waldemar; Gawehn, Karlfried; and Mollering, Hans, 3,684,659.
 Thum, Walter: *See—*
 Span, Samuel; and Thum, Walter, 3,654,727.
 Thuma, Volney P.: *See—*
 Weyna, Philip L.; Thuma, Volney P.; and Frey, David A., 3,666,521.
 Thumberger, Harold C. Apparatus for manufacturing rotogravure printing roll. 3,655,286, 4-11-72, Cl. 355-85.
 Thumm, Helmut; and Schaich, Willy, to Voith, J. M., GmbH. Two press grinder constructed for easy wheel replacement. 3,690,572, 9-12-72, Cl. 241-151.000.
 Thumm, Wilhelm: *See—*
 Meyer, Kurt; Rausch, Hans; and Thumm, Wilhelm, 3,645,717.
 Meyer, Kurt; and Thumm, Wilhelm, 3,682,620.
 Meyer, Kurt; Reuter, Gerhard; and Thumm, Wilhelm, 3,684,485.
 Nagel, Horst; Thumm, Wilhelm; Garbe, Horst; Dailey, William H.; Goedeke, Egon; and Dadazynski, Rolf, 3,704,088.
 Thumm, Ursus: *See—*
 Harnisch, Heinz; Thumm, Ursus; Traulsen, Karl; and Hartlapp, Gerhard, 3,656,898.
 Thunberg, Jon C.: *See—*
 Scanlon, Patricia M.; and Thunberg, Jon C., 3,689,544.
 Thunberg, Jon C.; and Philbrook, James E., to Grace, W. R., & Co. Process for the manufacture of ferrocyanide compounds. 3,699,214, 10-17-72, Cl. 423-367.000.
 Thunderline Corporation: *See—*
 Barton, Bruce G., 3,649,034.
 Gignac, Robert J., 3,703,297.
 Thur, Donald O.: *See—*
 Bawa, Mohendra S.; and Thur, Donald O., 3,704,104.
 Thuranszky, Karoly: *See—*
 Voroshazy, Lajos; Thuranszky, Karoly; and Kekes-Szabo, Andras, 3,662,074.
 Thurenus, Ake Gunnar Herbert: *See—*
 Stromberg, Sven Ake Olof; Thurenus, Ake Gunnar Herbert; and Wallin, Hans Erik, 3,633,135.
 Thurman, Allan C. Foot massage roller. 3,662,748, 5-16-72, Cl. 128-57.000.
 Thurman, Harry W.: *See—*
 Uyeda, Tim M.; and Thurman, Harry W., 3,638,587.
 Thurman, Lewis: *See—*
 Riley, Ray Joe, 3,700,459.
 Thurman, Milton E., Jr. Semiconductor tester having visual and audible display. 3,689,838, 9-5-72, Cl. 324-158.00t.
 Thurn, Walter H., Jr.: *See—*
 Kay, Byron L.; and Thurn, Walter H., Jr., 3,670,993.
 Thurnell, Orville D., to Motorola, Inc. Deflection yoke housing assembly. 3,633,137, 1-4-72, Cl. 335-212.
 Thursby, William R., Jr., to United States of America, Air Force. Adjustable optical equipment holder. 3,652,152, 3-28-72, Cl. 350-252.
 Thurston Aircraft Corporation: *See—*
 Thurston, David B., 3,638,887.

- Thurston, Charles T., to McDonnell Douglas Corporation. Hydraulic system having means for isolating leaking branch circuits. 3,667,223, 6v6-72, Cl. 60-51.000.
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- Thurston, Warren M., to Atomic Energy of Canada Limited. Sampling device for mass spectrometric analysis. 3,681,598, 8-1-72, Cl. 250-41.9.
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- Thyret, Helmut E.: See—
Dewhirst, Kenneth C.; Keim, Wilhelm; and Thyret, Helmut E., 3,652,614.
- Thysk, Rune Nils Anders: See—
Collin, Rolf Henrik; Kjallstrom, Arne Rudolf; and Thysk, Rune Nils Anders, 3,694,783.
- T.I. (Group Services) Limited: See—
Norman, John R., 3,683,179.
- Ti-Mind Incorporated: See—
Jochim, La Vergne C., 3,684,843.
- Ti-Pe Elmeko, Tillander & Persson: See—
Tillander, Magnus E.; Persson, Ake B.; and Johansson, Leif A. T., 3,641,945.
- Tiao, Hui-Li: See—
Stahlberg, Eugene G.; Tagawa, James M.; and Tiao, Hui-Li, 3,686,470.
- Tagawa, James M.; and Tiao, Hui-Li, 3,706,979.
- Tiara Corporation: See—
Mechanic, Bernard I., 3,664,230.
- Tibbals, Edward Camp. Safety razor blade. 3,703,766, 11-28-72, Cl. 30-346.530.
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- Tibbets, David W. Viewing device. 3,671,117, 6-20-72, Cl. 353-28.000.
- Tibbets, Alan R.; and Tucker, Donald R., to Airco, Inc. Ambient air vaporizer. 3,672,446, 6-27-72, Cl. 165-183.
- Tibbets, George C.: See—
Flint, William T.; and Tibbets, George C., 3,697,790.
- Tibbets, George C.; and Sawyer, Joseph A., to Tibbets Industries, Inc. Magnetic transducer. 3,671,684, 6-20-72, Cl. 179-117.000.
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Tibbets, George C.; and Sawyer, Joseph A., 3,671,684.
- Tibbets, Merrick S.: See—
Pittet, Alan O.; Mason, Michael E.; Theimer, Ernst T.; and Tibbets, Merrick S., 3,686,177.
- Tibbott, David W.: See—
Catterfeld, Robert J.; and Tibbott, David W., 3,656,560.
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Englund, Gosta Roland; and Tice, Richard Reuben, 3,668,692.
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- Tick, Sanford J.: See—
Freedman, David; and Tick, Sanford J., 3,649,557.
- Ticket Reservation Systems, Inc.: See—
Quinn, Jack C., 3,688,276.
- Tickett, Edward F., to Reynolds, Alex B. Pipe fitting. 3,650,547, 3-21-72, Cl. 285-3.
- Tickett, Edward F., 50% to Reynolds, Alex B. Apparatus for severing and coupling a pipe. 3,652,107, 3-28-72, Cl. 285-3.
- Tickett, Edward F., 50% Reynolds, Alex B. Pipe fitting. 3,703,906, 11-28-72, Cl. 137-15.000.
- Tickle, Andrew C.: See—
Mark, John G.; and Tickle, Andrew C., 3,636,530.
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- Tidd, James A.: See—
Aron, Edward A.; Griffith, Louis E.; and Tidd, James A., 3,693,516.
- Tidd, James A., to Graphic Systems, Incorporated. Photocomposing apparatus with improved character recording apparatus and methods. 3,631,774, 1-4-72, Cl. 95-4.5.
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Schoelz, Willy A. E.; and Tidland, John W., 3,649,964.
- Tidmore, Mabry L.: See—
Miller, Robert; Witt, Jerry L.; and Tidmore, Mabry L., 3,707,178.
- Tidswell, Anthony Clifford. Floor crane. 3,667,632, 6-6-72, Cl. 214-130.
- Tiedtke, Alfred: See—
Schulze-Robbecke, Hans; and Tiedtke, Alfred, 3,672,425.
- Tiefbohr-Technik GmbH & Co.: See—
Knoll, Hans, 3,662,611.
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Lohring, Theo; Greive, Aloys; Eckholt, Heinrich; and Tiemann, Theodor, 3,645,083.
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- Tien, Ping King: See—
Bergman, John George, Jr.; McFee, James Hoffman; and Tien, Ping King, 3,694,055.
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Gibbons, Edward F.; Smith, Douglas E.; and Tien, Tseng Y., 3,657,140.
- Tieniber, Albert C., to Hooker Chemical Corporation. Porous polyurethanes and method of manufacture. 3,650,880, 3-21-72, Cl. 161-89.
- Tierling, Kenneth. Method for providing a cement sheathed plastic liner within a flowline. 3,662,045, 5-9-72, Cl. 264-35.
- Tierman, Melvin, to Sprague Electric Company. Thin film capacitor and method of making same. 3,638,085, 1-25-72, Cl. 317-258.
- Tierney, Francis X. Golf game apparatus including message broadcasting circuitry. 3,645,536, 2-29-72, Cl. 273-185.
- Tierney, John Robert, to Sperry Rand Corporation. Lubricating device for electric dry shaver. 3,693,758, 9-26-72, Cl. 184-102.000.
- Tierney, William: See—
Tepper, Sidney; Tierney, William; and Lilinga, Nicholas, 3,672,082.
- Tiers, George Van Dyke: See—
Wiese, Joseph A., Jr.; and Tiers, George Van Dyke, 3,663,257.
- Wiese, Joseph A., Jr.; and Tiers, George Van Dyke, 3,684,552.
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- Ties, Sidney, to International Computers Limited. Method of making a magnetic recording member. 3,671,351, 6-20-72, Cl. 156-233.000.
- Tiesnes, Manfred: See—

- Eggimann, Fritz; Guarella, Gusta; Tiesnes, Manfred; and Wigdorovits, Ivan, 3,633,172.
- Glantschnig, Fritz; and Tiesnes, Manfred, 3,657,717.
- Tieszen, Dale O., to Phillips Petroleum Company. Method of coating iron or titanium containing substrate with poly(arylene sulfide). 3,634,125, 1-11-72, Cl. 117-49.
- Tietjen, Albert H.: See—
Heidman, Albert G.; and Tietjen, Albert H., 3,641,697.
- Tietjen, James Joseph; Williams, Brown F.; and Wang, Chih Chun, to RCA Corporation. Photoemissive electron tube comprising a thin film transmissive semiconductor photocathode structure. 3,699,401, 10-17-72, Cl. 317-234.00r.
- Tietjens, Eduard Willem, to U.S. Philips Corporation. Electric shaver cutter assembly. 3,636,628, 1-25-72, Cl. 30-43.6.
- Tietz, Richard August: See—
Klemm, Carl John; Tietz, Richard August; Street, Terrell Ray; and Blake, Trevor, 3,661,577.
- Tietz, Wolfgang: See—
Wollner, Johannes; Tietz, Wolfgang; and Neier, Wilhelm, 3,682,868.
- Tiffin, James R.; and Erdman, Earl. Foamed polymer cup and method for making same. 3,666,162, 5-30-72, Cl. 229-1.50b.
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- Tiffin, Victor. Razor with oscillating head. 3,636,627, 1-25-72, Cl. 30-45.
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- Tiger Products, Inc.: See—
Fisher, James E.; Mitchell, Jack L.; and Wisdom, Gerald F., 3,693,918.
- Tiger Vacuum Bottle Industrial Company, Limited: See—
Kaishita, Yoshiaki; and Sugimoto, Shigeo, 3,679,140.
- Tights, Inc.: See—
Ferrell, John O., 3,675,247.
- Tigner, Ronald G.: See—
Davis, Ralph A.; and Tigner, Ronald G., 3,705,010.
- Tigner, Ruben A., to Dow Chemical Company, The. Resealable container. 3,650,386, 3-21-72, Cl. 206-46.
- Tigner, Ruben A., to Dow Chemical Company, The. Loading method and apparatus. 3,683,584, 8-15-72, Cl. 53-35.
- Tihanyi, Bela: See—
Bergerhoff, Gunter; Tihanyi, Bela; Falbe, Jurgen; and Weber, Jurgen, 3,681,435.
- Bergerhoff, Gunter; Tihanyi, Bela; Falbe, Jurgen; Weber, Jurgen; and Weisheit, Werner, 3,681,477.
- Tii Dee Products Co.: See—
Hollander, Irvin, 3,635,432.
- Hollander, Irvin, 3,664,790.
- Tiitola, Jussi Antti. Device for improving the steerability of a motor sled. 3,653,453, 4-4-72, Cl. 180-5.
- Tijunelis, Donatas: See—
Simon, Selwyn; and Tijunelis, Donatas, 3,650,775.
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- Tikhonova, Margarita Petrovna: See—
Khcheian, Khachik Egorovich; Revenko, Olga Mikailovna; Tikhonova, Margarita Petrovna; Polkovnikova, Antonina Grigorievna; and Mak, Nikolai Emelianovich, 3,634,487.
- Tikhova, Nina Mikhailovna: See—
Stroganov, Genrikh Borisovich; Savitsky, Evgeny Mikhailovich; Tikhova, Nina Mikhailovna; Terekhova, Vera Fedorovna; Volkov, Mstislav Vasilievich; Sivash, Konstantin Mitrofanovich; and Borodkin, Vladislav Sergeevich, 3,687,135.
- Tilak, Monobar A., to Lilly, Eli, and Company. Process for preparing imidazols-benzylhistidine derivatives. 3,660,420, 5-2-72, Cl. 260-309.
- Tilbrook, Kenneth B., to Certain-Teed Products Corporation. Glass fiber cooling means made of palladium. 3,647,382, 3-7-72, Cl. 65-12.
- Tilburg, Holstef: See—
Ruben, Napoleon H.; and Tilburg, Holstef, 3,635,173.
- Tilby, Sydney E., to Canadian Cane Equipment Ltd. Method and apparatus for preparing sugarcane stalks for subsequent processing. 3,698,459, 10-17-72, Cl. 146-119.000.
- Tilby, Sydney Edward, to Canadian Cane Equipment, Ltd. Apparatus for processing sugarcane. 3,690,358, 9-12-72, Cl. 146-119.000.
- Tilche, Philippe J.: See—
Icxi, Jean J. G.; and Tilche, Philippe J., 3,637,468.
- Tile Council of America, Inc.: See—
Bennett, Frank E.; and Kleinhans, Robert J., 3,706,696.
- Tilford, Charles H.; Blohm, Thomas R.; and MacKenzie, Robert D., to Richardson-Merrell Inc. Allene polyamines. 3,641,155, 2-8-72, Cl. 260-583.
- Till, Heinrich, to Sandoz Limited. Process for the production of alkali metal perborates. 3,650,682, 3-21-72, Cl. 23-60.
- Till, Henry R.; and Watson, Percy K., to Xerox Corporation. Magnetic photoelectrophoretic imaging composition. 3,666,472, 5-30-72, Cl. 96-88.
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- Tille, Hans: See—
Niestroj, Heinrich; and Tille, Hans, 3,650,127.
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Lilly, Arnys Clifton, Jr.; and Tiller, Calvin O., 3,657,016.
- Lilly, Arnys Clifton, Jr.; and Tiller, Calvin O., 3,698,955.
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- Tilley, Colin; Watson, David Harris; and Campbell, Michael, to Anchor Chemical Company Limited, The. Polyester compositions. 3,644,568, 2-22-72, Cl. 260-835.
- Tillie, Jean-Claude, to Tramec S.A. Partition-walls formed of prefabricated elements. 3,678,640, 7-25-72, Cl. 52-238.000.
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- Tillman, Alfred, to Marotta Scientific Controls, Inc. Straight-through flow valve with restricting seals. 3,635,436, 1-18-72, Cl. 251-31.
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- Tillman, James J.: See—
Gagnon, Donald W.; and Tillman, James J., 3,647,510.
- Tillman, Richard M.; and Whitfill, Donald L., to Continental Oil Company. Reduction of magnesium in fertilizer base solutions. 3,632,329, 1-4-72, Cl. 71-34.
- Tillmann, Hans Peter; and Lerchs, Erik, to Burndy Corporation. Multi-layer programmable wiring board. 3,648,221, 3-7-72, Cl. 339-74.
- Tillmann, Horst; to Dorken & Mankel KG. Automatic door closer. 3,668,737, 6-13-72, Cl. 16-55.000.
- Tillmann, Walter: See—
Ross, Gerhard; Reul, Bernhard; Tillmann, Walter; and Liebenhoff, Reinhardt, 3,642,393.
- Tillner, Siegfried; Heilmann, Heinz; and Ludemann, Joseph, to Licentia Patent-Verwaltungs-G.m.b.H. Motor. 3,634,707, 1-11-72, Cl. 310-172.
- Tilloson, August Henry: See—
Adams, James William; and Tilloson, August Henry, 3,682,856.
- Tillotson, James E.: See—
Altieri, Vincent F.; and Tillotson, James E., 3,692,541.
- Tillstrom, Carl R.: See—
Edwards, Leon C.; Mandel, Harvey B.; and Tillstrom, Carl R., 3,650,274.
- Tilly, John Frederick; and Hirst, Ian Johnson, to International Standard Electric Corporation. Supervisory system for unattended repeaters. 3,637,955, 1-25-72, Cl. 179-175.31.
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- Timber Engineering Company: See—
Diamond, Robert F.; and Kingston, George W., 3,698,329.
- Timber Structures, Inc.: See—
Birkemeier, George R.; and Scott, Hollis C., 3,635,509.
- Birkemeier, George R., 3,638,245.
- Timberlake, Marshall, Mrs.: See—
Landrum, Porter, 3,707,278.
- Timbie, Robert W., to Monsanto Company. Textile spindle mounting. 3,673,783, 7-4-72, Cl. 57-135.000.
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- Time Incorporated: See—
Bliss, Frederick R., Jr., 3,649,445.
- Brink, Robert M.; and Welch, Paul E., 3,645,613.
- Chapman, Brian M., 3,674,367.
- Lopas, Kasimir, 3,696,708.
- Means, John A., 3,640,843.
- Means, John A., 3,661,702.
- Murray, Margaret H.; and Brodhag, Earl E., 3,660,131.
- Sorensen, Robert L.; and Casanova, John, 3,695,807.
- Time Research & Development Corporation: See—
McGourty, Thomas K., 3,667,261.

- Time Research Laboratories, Inc.: *See—*
Nugent, Reginald F.; and Snyder, George P., 3,666,907.
Nugent, Reginald F.; and Snyder, George P., 3,674,975.
Nugent, Reginald F.; and Snyder, George P., 3,683,146.
- Time Sharing Sciences, Inc.: *See—*
Stone, John Alexander; Lamster, Hal Bernhard; Baker, Charles L.; and Bakiras, Spiro, 3,681,755.
- Time/Data Corporation: *See—*
Sloane, Edwin A.; McKeever, Bruce T.; and Meyer, Burtis W., 3,638,004.
Sloane, Edwin A.; and Scaggs, Lee E., 3,670,326.
- Timely Products Corporation: *See—*
Hines, Benjamin M.; and Johnson, Richard L., 3,663,796.
Johnson, Richard L., 3,644,705.
- Times Corporation: *See—*
Wuthrich, Paul, 3,704,582.
- Timesavers, Inc.: *mesne: See—*
Sternal, Lambert S., 3,701,219.
- Timesavers Sanders, Inc.: *See—*
Sternal, Lambert S., 3,654,738.
- Timex Corporation: *See—*
Diersbock, Gunther Rudolph, 3,668,860.
Diersbock, Gunther Rudolph, 3,638,419.
Grohoski, Raymond J., 3,635,012.
Kaulins, Edward, 3,698,179.
Meitinger, Heinz, 3,667,210.
Wuthrich, Paul, 3,704,498.
Zatsky, Norman Charles, 3,699,762.
- TIMI Sp.A.: *See—*
Poss, Emilio, 3,704,956.
- Timken Company, The: *See—*
Barnbrook, Thomas George; and Wren, Frederick James, 3,672,019.
Keller, Thomas C.; and Heggy, Robert F., 3,672,735.
Keller, Thomas Charles, 3,685,841.
McCoy, Wyn Eugene, 3,698,777.
McKelvey, Ralph E., 3,675,978.
Rundt, John W., 3,704,498.
Weigel, Charles P., 3,704,183.
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Whisler, Howard E.; Shah, Bhupendra Umedchand; Jeskey, Gerald Vernon; and Bloom, Ray Albert, 3,703,924.
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Striegel, George; and Timm Otto, 3,659,745.
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Asberg, Sture; and Timmer, Henrikus Jacobus Maria, 3,643,302.
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Asberg, Sture; and Timmer, Jacobus Maria, 3,685,090.
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Wilson, Eric John; Brigg, Alan Henry; and Timmons, Eric, 3,705,555.
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Dybalski, Jack N.; and Timmons, Robert D., 3,689,297.
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Clark, Arthur C.; and Timmons, Ted, 3,695,676.
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Spiegelberg, Harry L.; Timmons, Terry K.; and Stumpf, Robert J., 3,689,353.
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Johnson, Lemoine L.; and Timmons, William P., 3,696,666.
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Needham, Arthur Michael; and Tindall, David, 3,692,245.
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Broussaud, Georges; and Tinet, Claude, 3,638,494.
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Foglia, Andrew J.; and Tinger, Harold G., 3,634,552.
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LeCompte, Frank M., 3,704,738.
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Hulit, Gerald W.; Greenberg, Frederick A.; Pirkey, Edward; and Tingquist, Stanley C., 3,687,191.
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Morawetz, Peter L.; and Tinklenberg, Meryl W., 3,649,509.
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Gracon, Andrew; and Tinnerman, George A., 3,703,794.
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Sawyer, Roy D.; and Tinsley, John D., 3,673,083.
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Rick, Edward A.; and Tinsley, Samuel W., 3,646,113.
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Mosier, Benjamin; and Tippett, Charles E., 3,666,678.
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Campbell, Alastair; Robinson, Peter; and Tipping, James William, 3,661,788.
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Mayer, James R.; and Tipton, Joe D., 3,680,412.
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Vandeweyer, Romain Gustave Edgard, 3,687,727.
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Platzer, Herbert; Singer, Erich; and Wassermann, Franz, 3,684,320.
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Price, Raymond E.; and Tirrell, Clifford F., 3,639,968.
Price, Raymond E.; Tirrell, Clifford F.; Adams, Richard C.; and George, Robert W., 3,702,103.
- Tischbein, Claus: *See—*
Schraud, Alfred W.; and Tischbein, Claus, 3,648,555.
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Nordmann, Edwin; and Tischer, Siegfried, 3,633,764.
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Brady, Hugh B.; Kochis, John L.; and Tischler, Oscar, 3,688,238.
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Pincoffs, Peter H.; and Tisdale, Glenn E., 3,638,188.
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Idel, Vladimir Viktorovich; and Tishin, Jury Vasilievich, 3,657,946.
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Tishken, Paul, 3,646,794.
Tishken, Paul, 3,707,103.
- Tishman, Abraham, to Dynamic Typing Inc. Audio-visual instructional system with synchronized visual and audio presentations. 3,654,619, 4-4-72, Cl. 340-172.5.
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Skulsky, Jury Valentinovich; Boretzky, Vasily Grigorievich; Sakharov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievich; Schukin, Pavel Ivanovich; Danilkiv, Ivan Petrovich; Zelensky, Vladimir Filippovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgamovich; and Sokirko, Vasily Andreevich, 3,657,962.
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Mariani, Brunello; Giuzzi, Alberto; and Tisselli, Eugenio, 3,657,216.
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Picard, Claude Andre, 3,693,000.
- Tissot, Pierre L. Combined power and antenna cord for television sets. 3,649,742, 3-14-72, Cl. 174-70.
- Tisza, Sandor: *See—*
Bessko, Dezso; Gallai, Gyula; Farnady, Pal; Jozsa, Geza; Kovy, Margit; Teller, Laszlo; Suba, Andras; and Tisza, Sandor, 3,652,166.
- Titan Textile Machines A/S: *See—*
Fleischer, Svend Sigurd Christie, 3,653,106.
- Titan Verpackungssysteme GmbH: *See—*
Timmerbeil, Eberhard; and Timmerbeil, Harald, 3,659,318.
- Titangesellschaft mbH: *See—*
Hilgers, Giovanni; Hitzemann, Gerhard; and Kulling, Achim, 3,647,377.
Hilgers, Giovanni; Hitzemann, Gerhard; and Kulling, Achim, 3,694,168.
Luginsland, Hans Hermann, 3,660,129.
- Titanium Metals Corporation: *See—*
Covington, Loren C., 3,632,490.
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Toepfer, Richard E.: See—
Hill, Robert C.; French, John M.; and Toepfer, Richard E., 3,675,019.

Toepfl, Rosemarie: See—
Deflorin, Alberto; Abel, Heinz Reinach; Berger, Alfred; Casty, Richard; and Toepfl, Rosemarie, 3,647,728.

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Toepfl, Werner, to Ciba Limited. N-Halophenylchlorisothiazolones and method for their manufacture. 3,635,997, 1-18-72, Cl. 260-302.

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Burkett, George; and Toeppen, Thurston H., 3,651,710.

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Smith, Wade O.; and Toft, Albert R., 3,702,808.

Toftness, Irving N. Device for applying and releasing pressure. 3,706,309, 12-19-72, Cl. 128-69.000.

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Togashi, Tetuo: See—
Ishikawa, Teruo; Kawashima, Koji; and Togashi, Tetuo, 3,700,846.

Togawa, Haruo: See—
Ishimoto, Sachio; Nakagawa, Koji; Togawa, Haruo; and Chubachi, Sumio, 3,649,685.

Togawa, Hideo; and Okamoto, Mitsuo. System for transforming coordinates. 3,684,880, 8-15-72, Cl. 235-186.000.

Togel, Kurt: See—
Hoetzel, Hubert; and Togel, Kurt, 3,694,635.

Rehme, Hans; and Togel, Kurt, 3,651,303.

Tognazza, Bruno: See—
Rado, Antonio; and Tognazza, Bruno, 3,632,051.

Togneri, Mauro G.: See—
Johnson, Irvin D.; Togneri, Mauro G.; and Kaufmann, Eduard P., 3,693,163.

Tognoli, Luigi: See—
Arcamone, Federico; Cassinelli, Giuseppe; Penco, Sergio; and Tognoli, Luigi, 3,686,163.

Togo, Hidetoshi: See—
Matsushita, Kazuo; Koizumi, Ken; Togo, Hidetoshi; and Kimura, Hajime, 3,657,586.

Togo, Kazushi: See—
Akamatsu, Akira; Togo, Kazushi; and Kida, Yoko, 3,669,717.

Togs, Inc.: See—
Kahn, Edward J., 3,691,597.

Kahn, Edward Joel, 3,643,296.

Kahn, Edward Joel, 3,644,965.

Toguchi, Akihiro: See—
Tanaka, Tetsuo; Masumura, Masao; Toguchi, Akihiro; and Yamaguchi, Mario, 3,671,507.

Tohi, Yasuake: See—
Washio, Takaji; Tohi, Yasuake; and Aizawa, Tatsuo, 3,695,754.

Tohma, Wataru; Murata, Takao; Nakamura, Nobutaka; and Kudo, Atsushi, to Sumitomo Durez Company, Ltd. and Sumitomo Chemical Company, Limited. Method of soil stabilization and leakage prevention. 3,696,622, 10-10-72, Cl. 61-36.00r.

Toho Beslon Co., Ltd.: See—
Fuji, Saburo; Saji, Yasuo; Yamada, Kozo; Makita, Zenji; and Ikegami, Shigeru, 3,689,621.

Matsushita, Fukusaburo; Saji, Yasuo; Saito, Kazuhisa; Tanaka, Kozo; and Yoshinari, Osamu, 3,702,880.

Yoshida, Masatoshi; Saji, Yasuo; Saito, Kazuhisa; and Ikegami, Shigeru, 3,701,819.

Toho Denki Co., Ltd.: See—
Tanaka, Yutaka; and Kobitsu, Koichi, 3,652,783.

Tohoku Metal Industries Limited: See—
Kato, Umaki; and Nishino, Hisao, 3,663,913.

Tohoku Oki Electric Company: See—
Tamaru, Naokichi; and Nakauchi, Shunsaku, 3,657,583.

Tohoku Special Steel Works Limited: See—
Matsumoto, Jiro; Takeuchi, Masatoshi; Abe, Arimichi; and Sen-goku, Koji, 3,673,010.

Tohoru, Tomoshige: See—
Kashiwa, Norio; Tohoru, Tomoshige; Kobayashi, Toshio; and Honma, Shiro, 3,705,886.

Tohyama, Shunroku: See—
Okazaki, Kaoru; Tohyama, Shunroku; Nakata, Minoru; and Kishimoto, Kiyomi, 3,652,713.

Tohyama, Takafumi: See—
Orita, Michio; Yahagi, Masakichi; Enomoto, Chohji; Obitu, Takeo; and Tohyama, Takafumi, 3,649,649.

Toi, Tatsuo: See—
Murai, Tsuyoshi; and Toi, Tatsuo, 3,696,779.

Toi, Toshio: See—
Nagoya, Yutaka; and Toi, Toshio, 3,690,469.

Toi, Yoshioki: See—
Kawaguchi, Shigenori; Toi, Yoshioki; and Suyama, Shiyozo, 3,688,548.

Toisho Pharmaceutical Co., Ltd.: See—
Sota, Kaoru; Hayashi, Akifumi; and Amano, Takehiro, 3,683,005.

Toji, Masuo: See—
Blackwell, John; and Toji, Masuo, 3,667,897.

Tojyo, Ken: See—
Inoue, Masahiko; and Tojyo, Ken, 3,639,951.

Tojza, Roman A.: See—
Lally, Joseph E.; and Tojza, Roman A., 3,642,287.

Tojza, Roman A.; and De Simone, Frank C., to Bally Manufacturing Corporation. Coin escrow means and circuit. 3,696,905, 10-10-72, Cl. 194-9.000.

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Tashiro, Hiroji; and Yamaguchi, Tutomu, 3,704,229.

Tokai Cold Forming Co., Ltd.: See—
Abe, Michio, 3,644,973.

Abe, Michio; and Maeda, Naoyuki, 3,699,372.

Tokai Rubber Industries, Ltd.: See—
Kurauchi, Noritaka; Fujimoto, Tokio; Yoshida, Kenichi; Ui, Masamitsu; Nagata, Zenji; and Kouno, Hirokazu, 3,636,436.

Tokapz, Richard D. Non-consumable wick. 3,652,197, 3-28-72, Cl. 431-326.

Tokarev, Vladimir Ivanovich: See—
Kononov, Boris Leonidovich; Kildishev, Vasily Semenovich; Kaplunov, Vadim Borisovich; Tokarev, Vladimir Ivanovich; Spivak, Boris Volkovich; Byaly, Boris Ilich; Chigirinsky, Alexander Abramovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; Karpman, David Bentsionovich; Kariashvsky, Pavel Yakovlevich; and Cheremisev, Ivan Yakovlevich, 3,683,220.

Tokarz, Leo T., to Mohr, John, & Sons. Blast furnace charging apparatus for high top pressure. 3,706,387, 12-19-72, Cl. 214-37.000.

Tokarz, Richard D., to United States of America, Atomic Energy Commission. Picture position finder. 3,661,061, 5-9-72, Cl. 95-1.100.

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Tokashiki, Michiyuki: See—
Ichikawa, Yataro; Tokashiki, Michiyuki; and Suzuki, Nobuo, 3,632,830.

Ichikawa, Yataro; Tokashiki, Michiyuki; and Suzuki, Nobuo, 3,666,791.

Ichikawa, Yataro; Yamashita, Gentaro; Tokashiki, Michiyuki; and Suzuki, Nobuo, 3,668,235.

Tokekawa Tekko Kabushiki Kaisha: See—
Takekawa, Toshio, 3,675,507.

Tokheim Corporation: See—
Overy, Lester R., 3,670,317.

Shultz, John E.; and Herderhorst, Wilfred W., 3,676,025.

Toki, Hisashi: See—
Yamamoto, Masayuki; Toki, Hisashi; and Shibuya, Hideo, 3,668,004.

Yamamoto, Masayuki; Toki, Hisashi; and Shibuya, Hideo, 3,697,334.

Toki, Masamichi: See—
Fuji, Shigeru; Miwa, Takashi; Noji, Kazushige; Okagawa, Chikatsu; and Toki, Masamichi, 3,645,819.

Toki, Masamichi; Hikota, Toyohiko; and Okamoto, Miyoshi, to Toray Industries, Inc. Method for producing composite sheets composed of polymeric fibers and elastic material. 3,706,613, 12-19-72, Cl. 156-85.000.

Tokico Ltd.: See—
Hayakawa, Ken; and Tamada, Mitsuaki, 3,644,713.

Hayakawa, Ken; and Tamada, Mitsuaki, 3,652,829.

Hisada, Takeo; Nakajima, Fumio; Nishi, Takeshi; and Sugiyama, Kunro, 3,680,579.

Irie, Yoshihiko; and Kimura, Fumio, 3,670,930.

Irie, Yoshihiko; Yamawaki, Shunro; and Ogawa, Yukio, 3,692,212.

Kato, Mahiko; Saito, Isamu; and Aizawa, Kensuke, 3,631,717.

Kato, Mahiko; Saito, Isamu; and Nishiba, Tuneso, 3,706,398.

Katsumori, Teiji, 3,647,239.

Yamawaki, Shunro; Ohya, Isao; Nishizawa, Mitsunori; and Hayakawa, Ken, 3,632,988.

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Tokita, Osamu: See—
Iijima, Hiroshi; Terasaka, Masaji; and Tokita, Osamu, 3,701,693.

Iijima, Hiroshi; Terasawa, Masaji; Gotoh, Yutaro; and Tokita, Osamu, 3,703,418.

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Tokiura, Shohei: See—
Sekiguchi, Takashi; Tokiura, Shohei; Ogihara, Sadahide; Yamamoto, Rokuro; and Ikeuchi, Akihiro, 3,638,824.

Toko, Inc.: See—
Takaku, Tetsuo; and Miyashita, Meiji, 3,638,146.

Tanizake, Mikio; Omori, Yasuo; and Sugihara, Jun, 3,637,506.

Toko Kabushiki Kaisha: See—
Gocho, Yukisato; and Inokuchi, Takahiro, 3,701,030.

Kameya, Kazuo, 3,634,785.

Maeda, Hisao; and Kobayashi, Keisuke, 3,704,457.

Yoneyama, Toshikazu, 3,688,283.

Yoshimoto, Keizo, 3,691,487.

Toko Kogyo-Kabushiki Kaisha: See—
Mizuguchi, Toru; Fujita, Mitsuo; and Suzuki, Yoshiaki, 3,665,588.

Tokola, Alpo J.: See—
Hekkanen, Eero M.; and Tokola, Alpo J., 3,641,774.

Tokolics, Joseph; Hughes, Gordon A.; and Smith, Herchel, to American A.G. Products Corporation. N-Substituted 2,3,4,5-tetrahydro-1H-3-benzazepines. 3,671,519, 6-20-72, Cl. 260-239.0ab.

Tokoro, Yoh: See—
Tanaka, Katsunobu; Oshima, Kazuo; Tokoro, Yoh; and Okii, Mitsuoyoshi, 3,654,079.

Tanaka, Katsunobu; Oshima, Kazuo; Tokoro, Yoh; and Okii, Mitsuoyoshi, 3,698,997.

Tokos, George M.: See—
Stanley, Hugh E.; and Tokos, George M., 3,655,503.

Tokoyoda, Kazuo: See—
Endo, Hiroshi; Tokoyoda, Kazuo; Fujiyu, Takemi; Kayasuga, Yasuaki; and Kunii, Tokio, 3,690,911.

Toksvig, Peter K., to Jespersen, A., & Son International A/S. Operating mechanism for core tubes in concrete molds. 3,642,419, 2-15-72, Cl. 425-457.

Tokuda, Shingo: See—
Yokota, Noriyuki; Tokuda, Shingo; and Asada, Shigeo, 3,649,508.

Tokuda, Yasunori: See—
Naka, Jinshichi; Tokuda, Yasunori; Kono, Takehiko; and Utsugi, Jun, 3,677,773.

Tokumaru, Tooru: See—
Watanabe, Yoshihiro; Kobayashi, Jiro; and Tokumaru, Tooru, 3,637,889.

Tokumoto, Shin-Ichi; and Tanaka, Eiji, to Sony Corporation. Electrodeposition method. 3,662,047, 5-9-72, Cl. 204-64.

Tokunaga, Kenki, to Sanyo Electric Co., Ltd. and Tokyo Sanyo Electric Co., Ltd. Automatic stop device for a magnetic tape recorder. 3,642,226, 2-15-72, Cl. 242-191.

Tokunaga, Takehisa: See—
Inose, Hiroshi; Saito, Tadao; Tokunaga, Takehisa; and Tomizawa, Kenji, 3,692,942.

Tokunaga, Yoshiyuki, to Fukui Seiren Kako Kabushiki Kaisha. Device for controlling feeding position of fabric. 3,637,122, 1-25-72, Cl. 226-20.

Tokura, Hiroshi: See—

Yamaguchi, Hiroyoshi; Iwaki, Akio; and Tokura, Hiroshi, 3,690,890.

Tokura, Susuma: See—
Matsui, Maso; Utsuhara, Yutaka; Yamabe, Masahiro; and Tokura, Susuma, 3,672,802.

Tokura, Susumu: See—
Hosokawa, Kenjiro; Matsui, Masao; Endo, Norio; Ichikawa, Michio; and Tokura, Susumu, 3,668,001.

Matsui, Masao; Tokura, Susumu; and Yamabe, Masahiro, 3,639,556.

Matsui, Masao; and Tokura, Susumu, 3,660,993.

Matsui, Masao; Tokura, Susumu; and Yamabe, Masahiro, 3,681,189.

Matsui, Masao; Tokura, Susumu; and Yamabe, Masahiro, 3,700,545.

Tokura, Tadao, to NGK Insulators, Ltd. Horizontal compression type automatic filter press. 3,696,930, 10-10-72, Cl. 210-225.000.

Tokusa, Yasunori: See—
Shiraishi, Tetsuya; Utsugi, Jun; Tanaka, Koji; and Tokusa, Yasunori, 3,655,746.

Tokushige, Akira: See—
Ishida, Shinichi; Ohshima, Noboru; Fujita, Norimasa; Mori, Kyoichiro; Kurita, Kunio; Ohki, Hayashi; Sato, Kunio; Nagamatsu, Kazuo; and Tokushige, Akira, 3,654,228.

Tokutomi, Seiji: See—
Uno, Naoyuki; and Tokutomi, Seiji, 3,680,457.

Uno, Naoyuki; and Tokutomi, Seiji, 3,681,649.

Uno, Naoyuki; and Tokutomi, Seiji, 3,684,917.

Uno, Naoyuki; and Tokutomi, Seiji, 3,706,266.

Tokutomi, Seiji, to Asahi Kogaku Kogyo Kabushiki Kaisha. Flash controls for cameras. 3,682,056, 8-8-72, Cl. 95-10.0cc.

Tokuyama Sekisui Kogyo Kabushiki Kaisha: See—
Matsumiya, Toshiharu, 3,660,538.

Tokuyama Soda Kabushiki Kaisha: See—
Mizutani, Yukio; Yamane, Reiichi; Sata, Toshikatsu; and Izuo, Ryuji, 3,647,086.

Mizutani, Yukio; and Matsuoka, Seishiro, 3,665,053.

Shikata, Kazuo; Nakao, Suekiti; and Knomi, Katsutoshi, 3,671,466.

Tokuyama, Takashi: See—
Tsuchimoto, Takashi; Tokuyama, Takashi; and Komatsubara, Kiichi, 3,660,171.

Tokuyama, Takashi; and Mori, Takaaki, to Hitachi, Ltd. Method for producing a semiconductor device. 3,632,433, 1-4-72, Cl. 117-212.

Tokuzumi, Tadaichi: See—
Kashiwa, Norio; Tokuzumi, Tadaichi; and Fujimura, Hiroshi, 3,642,746.

Tokyo Broadcasting System, Inc.: See—
Ito, Yutaka; and Hirate, Jun, 3,673,324.

Tokyo Cloth Co., Ltd.: See—
Nishitani, Kazuo; Shiga, Yasuhiro; and Nishibayashi, Yoshifumi, 3,676,206.

Tokyo Denki Kagaku Kogyo Kabushiki Kaisha: See—
Ito, Fukuzo; and Sekine, Masaoki, 3,645,462.

Ito, Fukuzo; and Sekine, Masaoki, 3,666,192.

Ito, Fukuzo; Sekine, Masaoki; and Arai, Yasusuke, 3,706,422.

Tokyo Denryoku Kabushiki Kaisha: See—
Mitsui, Tsuneo; Baba, Jun-Ichi; and Yamada, Ikuo, 3,675,002.

Tokyo Electric Co., Ltd.: See—
Ichinose, Noboru; Yokoyama, Katsunori; and Nishikawa, Hisashi, 3,679,919.

Oba, Harutaro; Sawazu, Toshihiko; Takeuchi, Sugio; and Chikata, Masaru, 3,670,957.

Oba, Harutaro; Sawazu, Toshihiko; Takeuchi, Sugio; and Yamaguchi, Norio, 3,677,464.

Tokyo Electric Power Co., Inc., The: See—
Mitsui, Tsuneo; Nakayama, Keizo; Kobayashi, Tetsuo; and Okuda, Kenzo, 3,657,728.

Oishi, Hiroshi; Aoki, Fumio; Kawano, Shigeru; Muramatsu, Hitoshi; and Saeki, Masahiro, 3,696,383.

Tokyo Gas Company Limited: See—
Yamagishi, Kazuo, 3,693,409.

Tokyo Giken Kogyo Kabushiki Kaisha: See—
Taira, Yasunori, 3,704,616.

Tokyo Heat Treating Company: See—
Wada, Shozo, 3,682,605.

Tokyo Juki Kogyo Kabushiki Kaisha: See—
Hirayama, Tetsuro, 3,645,221.

Hirayama, Tetsuro, 3,670,677.

Matsubara, Toru; Kozuka, Tadashi; Shinomiya, Hiroaki; and Aoyama, Noritoshi, 3,636,902.

Tokyo Kagaku Kabushiki Kaisha: See—
Mabuchi, Takaichi, 3,662,202.

Tokyo Keidenki Kabushiki Kaisha: See—
Kunio, Tone, 3,700,965.

Tokyo Keiki Seizoshu Co., Ltd.: See—
Terakawa, Takashige, 3,681,714.

Tokyo Roki Kabushiki Kaisha: See—
Ochiai, Tuguo, 3,640,839.

Tokyo Sanyo Electric Co., Ltd.: See—

Tokunaga, Kenki, 3,642,226.
Tokyo Seimitsu Co., Ltd.: *See—*
Egawa, Mitsuru; and Takano, Tomoteru, 3,654,561.
Nakahata, Masatake; and Sugi, Tatsuo, 3,698,353.
Tokyo Sharyo Seizo Kabushiki Kaisha: *See—*
Tominaga, Hiroshi; and Takamatsu, Masanobu, 3,681,959.
Tokyo Shibaura Co., Ltd.: *See—*
Shimada, Takashi, 3,700,963.
Yamamuro, Hiroshi, 3,653,770.
Tokyo Shibaura Denki Kabushiki Kaisha: *See—*
Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar, Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.
Iijima, Taizo; Yamazaki, Issei; Mori, Shunji; Genchi, Hiroshi; and Katsuragi, Sumio, 3,688,638.
Inoue, Noboru; and Wada, Makoto, 3,649,238.
Kurokawa, Takaaki; Yamada, Junji; and Wada, Makoto, 3,667,927.
Tokyo Shibaura Denki Kabushiki Kaisha; a/k/a Tokyo Shibaura Electric Co., Ltd.: *See—*
Hashimura, Tetsuo, 3,692,967.
Iijima, Taizo; and Mori, Kenichi, 3,688,267.
Iwasawa, Seijiro; Ishimura, Masabumi; and Morishita, Kenshichiro, 3,659,431.
Iwata, Tetuo, 3,666,075.
Kurokawa, Takaaki, 3,635,688.
Kurokawa, Takaaki, 3,635,689.
Sakamoto, Tetsuzo; and Torii, Akiomi, 3,669,559.
Sakamoto, Tetsuzo; Torii, Akiomi; Yokota, Mituhisa; and Sato, Seiko, 3,688,095.
Togashi, Tetsuo; and Kumakura, Morio, 3,633,564.
Tokyo Shibaura Electric Co., Ltd.: *See—*
Abe, Isamu; Yashiro, Hideo; Sori, Naoyuki; Hatano, Sotaro; Katsumoto, Tomiyasu; and Suzuki, Tadao, 3,670,395.
Abe, Isao; Hirose, Tatsuo; and Oshima, Kotaro, 3,699,976.
Fujii, Akihiro, 3,671,338.
Fujiwara, Tatsuo; and Kusakabe, Hiromi, 3,666,893.
Goshi, Yoichi; and Fukao, Yoshiro, 3,639,759.
Harao, Norio; and Yano, Motohiro, 3,688,144.
Harao, Norio; and Yano, Motohiro, 3,694,686.
Hirakawa, Hiroshi; and Kobayashi, Terumasa, 3,645,391.
Ichinose, Noboru; Yokoyama, Katsunori; Egami, Harutoshi; and Tanno, Yoshikazu, 3,645,974.
Ichinose, Noboru; Egami, Harutoshi; Yokoyama, Katsunori; and Tanno, Yoshikazu, 3,661,781.
Ichinose, Noboru; Yokoyama, Katsunori; and Nishikawa, Hisashi, 3,679,919.
Ichinose, Noboru; Egami, Harutoshi; Yokoyama, Katsunori; and Yamashita, Yohachi, 3,682,826.
Ichinose, Noboru; Egami, Harutoshi; Yokoyama, Katsunori; and Yamashita, Yohachi, 3,682,827.
Ichinose, Noboru; Egami, Harutoshi; Yokohama, Katsunori; and Yamashita, Yohachi, 3,684,715.
Ichinose, Noboru; Egami, Harutoshi; Yokoyama, Katsunori; and Yamashita, Yohachi, 3,686,122.
Ichinose, Noboru, 3,691,079.
Ichinose, Noboru; Egami, Harutoshi; Yokoyama, Katsunori; and Yamashita, Yohachi, 3,697,430.
Idei, Gijun; and Numata, Saburo, 3,670,184.
Igarashi, Yukio, 3,644,800.
Iida, Masachika; and Imajyo, Yasutaka, 3,646,488.
Iida, Seishi; and Unno, Yoichi, 3,660,780.
Iida, Toshikatsu; and Sato, Bunji, 3,692,435.
Imai, Atsuo; Harata, Mituo; Ogawa, Yoshitaka; and Hasegawa, Shoji, 3,671,324.
Imajyo, Yasutaka, 3,699,489.
Imamura, Hitoshi; and Katiuri, Keini, 3,660,709.
Imamura, Makoto; and Sato, Ikuro, 3,688,308.
Imanishi, Masakazu; Kondou, Kenji; and Sugiura, Ituo, 3,678,975.
Inagaki, Junpei; and Marumo, Hitoshi, 3,656,017.
Inoue, Masao; and Tamura, Zenzo, 3,644,734.
Inoue, Taiichi; and Ueda, Toshimasa, 3,671,452.
Inoue, Taiichi; and Ueda, Toshimasa, 3,671,454.
Irisaka, Yorikatsu; and Takashio, Haruo, 3,658,713.
Ishikawa, Teruo; Kawashima, Koji; and Togashi, Tetuo, 3,700,846.
Iwasaki, Masahiro; Goto, Nobuyuki; Fujisaki, Hiroya; and Niwa, Kunihiko, 3,667,047.
Iwasaki, Masahiro; Goto, Nobuyuki; Fujisaki, Hiroya; and Niwa, Kunihiko, 3,678,390.
Kabuki, Kimiaki; and Murai, Bunjiro, 3,647,727.
Kamegaya, Takeo; Imahori, Yutaka; Ohta, Akira; Kanoh, Tadao; and Ohara, Akio, 3,670,195.
Kamei, Taketo; and Miyazaki, Kouichi, 3,681,639.
Kameoka, Akio; Nakamura, Shinichi; Makino, Shinichi; Endoh, Kenjiro; and Kuriyagawa, Mamoru, 3,668,294.
Katagiri, Shigenobu; and Yokota, Mituhisa, 3,692,419.
Katuta, Tadao, 3,695,860.

Kikuchi, Masao; Kawashima, Toshihide; Kasahara, Koichi; and Nagayashi, Saneyoshi, 3,636,265.
Kitamura, Hiroyuki, 3,648,087.
Kitaoka, Kouichi; and Ichihara, Taku, 3,659,041.
Kitaoka, Kouichi; and Ichihara, Taku, 3,686,431.
Kobayashi, Tetsuji; Sasaki, Tetsuo; Takayanagi, Seiichi; and Sugita, Toru, 3,665,916.
Kobayashi, Tetsuji; Takayanagi, Seiichi; and Sugita, Toru, 3,669,095.
Kobayashi, Tetsuji; and Tabayanagi, Seiichi, 3,670,719.
Kojima, Mikiharu; and Iwata, Tetuo, 3,696,909.
Komeya, Katsutoshi; and Inoue, Hiroshi, 3,653,830.
Kubo, Moritada; Shigehara, Masamichi; and Nogiwa, Yasuo, 3,641,347.
Kubo, Moritada, 3,657,658.
Kubo, Moritada, 3,670,568.
Kubo, Moritada; Shigehara, Masamichi; and Yasui, Shozo, 3,681,583.
Kubo, Moritada; and Arimura, Yoshiaki, 3,693,154.
Kubo, Moritada; and Shinomiya, Yasuo, 3,698,829.
Kubota, Tadao; Matsuzaka, Takashi; and Inokuchi, Seizi, 3,645,358.
Kubota, Tadao; and Ida, Keisuke, 3,674,382.
Kubota, Tsutomu, 3,649,269.
Kurokawa, Toshio; Nishiyama, Shoji; Nagai, Katsumi; and Mochizuki, Yuu, 3,700,229.
Kuwabara, Takeo; Morimoto, Kazumi; and Miyao, Hachiro, 3,648,212.
Maeda, Hajime; Takeishi, Yoshiyuki; Sato, Tai; Hara, Hisashi; and Okamoto, Yoshihiko, 3,634,737.
Matsuno, Akira; Sasame, Takao; Shimizu, Ikuzo; Kizu, Humio; and Kagawa, Hiroyuki, 3,660,173.
Matsushima, Katsuo, 3,644,191.
Matsushita, Shigenori; and Ishikawa, Tatsuo, 3,638,194.
Matsushita, Shigenori; Sato, Fumitaka; Chujo, Hisao; and Horiike, Minoru, 3,683,360.
Matsushita, Shigenori; Sato, Fumitaka; and Chujo, Hisao, 3,688,299.
Matsushita, Shigenori; Sato, Fumitaka; and Miura, Haruhisa, 3,696,340.
Matsushita, Toru; Suzuki, Kunimoto; and Hasegawa, Shoji, 3,647,531.
Matsushita, Toru; Suzuki, Kunimoto; and Hasegawa, Shoji, 3,705,054.
Mito, Satoru; Shimotori, Kazumi; Kawai, Mituo; and Kawaguchi, Kanzi, 3,676,110.
Miyashiro, Shoichi; Shirouzu, Shunji; and Iwasawa, Mineo, 3,659,140.
Miyashiro, Shoichi, 3,668,473.
Miyashiro, Shoichi; Shirouzu, Shunji; and Tsuji, Shigeo, 3,702,410.
Miyazawa, Tatsuo; and Sato, Masashi, 3,652,852.
Mizoguchi, Yasuo; and Hoshino, Isao, 3,668,635.
Mizoguchi, Tetsuya, 3,644,900.
Murakami, Junzo; Asakawa, Shigeo; and Takeuchi, Kenji, 3,665,460.
Murakami, Yoshio; Higashinakagawa, Iwao; Yasuda, Nobuaki; and Sato, Motoharu, 3,653,007.
Murakami, Yoshio; Higashinakagawa, Iwao; Yasuda, Nobuaki; and Takeno, Syozo, 3,671,312.
Murakami, Yoshio; and Takai, Yamazaki, 3,678,889.
Murakami, Masahide, 3,668,516.
Nabae, Akira; Anji, Mitsuru; Arakawa, Osamu; and Sugiyama, Sadao, 3,683,138.
Nagata, Etsuro, 3,667,669.
Nakagawa, Takashi; Tsutsumi, Tadashi; and Hori, Hiroo, 3,670,213.
Nakamura, Isao; and Matsuzaki, Hiroshi, 3,705,412.
Nakamura, Masakatsu; Yonezawa, Toshio; Kato, Taketoshi; Watanabe, Masaharu; and Akatsuka, Minoru, 3,694,707.
Nakamura, Tetsuji, 3,649,912.
Nameda, Naoyoshi; and Kano, Tetsuhiro, 3,652,892.
Negishi, Satoshi, 3,665,407.
Niioka, Takeharu; and Hosokawa, Ryoji, 3,673,351.
Nomura, Osamu; Fujii, Nobuhiro; Aoi, Nanjo; and Kamiya, Fumio, 3,649,869.
Nomura, Osamu; and Kamiya, Fumio, 3,657,598.
Ohmae, Kenji; Hirano, Tomiyoshi; and Akaishi, Takao, 3,662,208.
Okada, Tsuneo; Onodera, Yutaka; Mitsuka, Takeshi; Saito, Yukinori; Muto, Yoshio; Anayama, Takeshi; and Yasukochi, Ko, 3,691,046.
Oya, Tsutomu; and Ebine, Kiyoshi, 3,665,435.
Sakai, Kunio; Katsuragi, Sumio; and Watanabe, Sadakazu, 3,668,637.
Sato, Hideo; and Ito, Kunihiko, 3,698,406.
Sato, Yoshinari; Itoh, Hiroshi; Sano, Hideki; and Tanaka, Masao, 3,635,046.
Sawagata, Shinichi; Nakahara, Masakatsu; and Tsuneta, Asahide, 3,643,121.
Seki, Nagataka, 3,694,727.

Seki, Yoshitaka; and Tanabe, Kaname, 3,644,970.
Shimotori, Kazumi; Takagi, Michiyasu; Kawamura, Yoshihisa; and Kiyooka, Shoichi, 3,663,767.
Shogo, Shimizu; Motose, Takami; Yamazaki, Syu; Komatsu, Michiyasu; and Yamamoto, Hiroshi, 3,661,536.
Suenaga, Masanobu; Machii, Tetsuo; Sawano, Takahiro; Kobayashi, Takehiko; Dengo, Tadao; and Nakai, Tetsuzo, 3,648,121.
Suzuki, Akira; and Ida, Sagamihara Keisuke, 3,664,771.
Suzuki, Norio; and Furukawa, Yoji, 3,670,158.
Suzuki, Yasoji, 3,646,332.
Taguchi, Kazuo; and Tsuchida, Hiroaki, 3,701,929.
Tajiri, Hisao; Sato, Ituzo; Takemura, Yasuo; and Tsuji, Shigeo, 3,671,664.
Takahashi, Hideomi; and Takigami, Katsuhiko, 3,678,361.
Takaoka, Takashi; Ohkoshi, Seiichi; and Unno, Yoichi, 3,649,124.
Takashio, Haruo; and Matsuzawa, Takayoshi, 3,644,101.
Takeda, Chujo; Kojima, Yoshihiro; Yamaguchi, Toshiyuki; and Ariyama, Yasuo, 3,639,865.
Takeishi, Yoshiyuki; Hara, Hisashi; Sato, Tai; and Sasaki, Isao, 3,636,421.
Takemura, Yasuo; and Hamaguchi, Kazuo, 3,636,247.
Terasawa, Michitaka, 3,700,950.
Toshimasa, Jinzenji; Ichimura, Kenji; and Ito, Shoji, 3,699,419.
Tsubouchi, Denji; and Wada, Kenji, 3,665,357.
Tsubouchi, Denji; Ito, Susumu; Toyota, Eisuke; and Wada, Kenji, 3,668,513.
Tsuji, Shigeo; and Shirouzu, Shunji, 3,633,077.
Tsuneta, Asahide; Tanaka, Hiroshi; and Kiriake, Yoshifumi, 3,652,895.
Tsuneta, Asahide; Ohta, Yasuo; Ikegaki, Makoto; Sawagata, Shinichi; and Sato, Fumiyuki, 3,659,133.
Tsuneta, Asahide; and Ikegaki, Makoto, 3,663,854.
Tsuneta, Asahide; and Sawagata, Shinichi, 3,667,824.
Tsuneta, Asahide; and Harao, Norio, 3,706,909.
Tsutsumi, Tadashi; and Matsuo, Takeshi, 3,663,870.
Uchiumi, Tatsuro; and Nakano, Goro, 3,692,194.
Umez, Shiro; Hashimura, Tetsuo; and Sekido, Akira, 3,699,299.
Wada, Ichiro, 3,633,401.
Watanabe, Sadakazu; Mori, Kenichi; Yoneyama, Tsuneo; and Genchi, Hiroshi, 3,688,266.
Yagi, Motoi; and Kawamura, Yoshihisa, 3,648,361.
Yamada, Hisashi; Tajiri, Hisao; and Nishizawa, Mitsugu, 3,706,023.
Yamamuro, Hiroshi; Kawase, Akira; and Sakai, Akio, 3,663,108.
Yanagawa, Sakae, 3,637,988.
Yanagawa, Sakae, 3,637,991.
Yasuda, Atsuhiko; and Kobayashi, Koichi, 3,675,496.
Yasuda, Nobuaki; Ogawa, Takenobu; Murakami, Yoshio; Higashinakagawa, Iwao; Takeno, Syozo; and Tanaka, Norio, 3,699,619.
Yokota, Ryosuke; and Muto, Yuhei, 3,648,049.
Yoshi, Masateru Kuni; Yamada, Hayatoshi; Fukasawa, Katsumi; and Tamura, Yoshiaki, 3,696,278.
Yoshida, Kenji; and Ichikawa, Osamu, 3,634,929.
Yuge, Yooji, 3,644,772.
Tokyo Shibaura Electric Co., Ltd.: *See—*
Inagaki, Junpei, 3,706,922.
Tokyo Sokuhan Co., Ltd.: *See—*
Isobe, Masahide, 3,640,600.
Tokyo Three Bond Co., Ltd.: *See—*
Watanabe, Eisuke; and Ozono, Masayashi, 3,651,036.
Tokyo Tokei Seizo Kaisha, Ltd.: *See—*
Kawaki, Katsumi; and Usui, Masashi, 3,697,982.
Usui, Masashi, 3,688,488.
Tokyo University: *See—*
Tamaru, Kenai; Onishi, Takaharu; and Soma, Mitsuyuki, 3,660,028.
Tamaru, Kenji; Onishi, Takaharu; Soma, Mitsuyuki; and Ichikawa, Masaru, 3,658,721.
Tokyo Sharyo Seizo Kabushiki Kaisha: *See—*
Hotta, Hiroshi, 3,632,000.
Tominaga, Hiroshi, 3,651,685.
Tolaas, William M., to Hoerner-Waldorf Corporation. Display carton, 3,685,640, 8-22-72, Cl. 206-44.110.
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Tolbert, Richard E.: *See—*
Yearout, James D.; and Tolbert, Richard E., 3,674,355.
Tolbert, Tommy L.: *See—*
Andersen, Harry M.; Morris, David C.; and Tolbert, Tommy L., 3,655,863.

Schierding, Royce G.; and Tolbert, Tommy L., 3,676,916.
Schierding, Royce G.; and Tolbert, Tommy L., 3,683,485.
Toldo, Anthony P.; and Watson, Robert E., to Swedish Crucible Steel Company. Self-contained fastener-concealing hinge leaf, 3,665,552, 5-30-72, Cl. 16-148.
Toldy, Lajos; Borsi, Jozsef; Elek, Sandor; Elekes, Istvan; and Andras, Ferenc, to Gyogyszerkutato Intezet. Certain 3-2,6-dichlorophenyl-2-iminothiazolidines, 3,671,537, 6-20-72, Cl. 260-306.7.
Tol, Walter Roland: *See—*
Kyriakis, John; and Tole, Walter Roland, 3,697,335.
Toledo, Emil: *See—*
Rotondo, Fortunato N.; Toledo, Emil; and Lawrence, Leslie, 3,696,846.
Semienko, Peter P.; and Toledo, Emil, 3,669,865.
Toledo, Emil, to United States of America, Navy. Nickel etching and plating bath, 3,634,207, 1-11-72, Cl. 204-32.
Toledo, Emil; and Sprague, Dennis R., to Raytheon Company. Beryllium copper electropolishing solution, 3,647,654, 3-7-72, Cl. 204-140.5.
Toledo, Emil; and Sprague, Dennis R., to United States of America, Navy. Nickel plating of nickel-copper printed circuit board, 3,661,728, 5-9-72, Cl. 204-32.00r.
Toledo Engineering Co., Inc.: *See—*
Steitz, William R.; Bradley, Robert O.; and Waterworth, Thomas H., 3,634,588.
Toledo Stamping & Manufacturing Company: *See—*
Scheppele, Lyle W., 3,672,334.
Wherry, Joseph L.; and De Angelis, Eugene, 3,682,278.
Tolk, Norman Henry; and White, Clark Woody, to Bell Telephone Laboratories, Incorporated. Method of analyzing a solid surface from photon emissions of sputtered particles, 3,644,044, 2-22-72, Cl. 356-85.
Tolkith, Henry: *See—*
Budde, Paul B.; and Tolkith, Henry, 3,637,732.
Tolksdorf, Wolfgang, to U.S. Philips Corporation. Device for a method of growing monocrystals, 3,677,712, 7-18-72, Cl. 23-273.000.
Toll, Von, A.G.: *See—*
Hotti, George, 3,651,770.
Tolle, Adolf; and Zeidler, Hans. Method and apparatus for milking dairy animals by means of a catheter, 3,653,359, 4-4-72, Cl. 119-14.02.
Tollefson, Charles L.; and Bice, Claude W., to French, R. T., Company, The. Method of preparing canned cooked rice, 3,647,486, 3-7-72, Cl. 99-186.
Tollefsrud, Warren H.; and Shriver, Edward W., to Midland-Ross Corporation. Work transfer apparatus, 3,677,423, 7-18-72, Cl. 214-18.00r.
Tollet, Gunnar. Record medium and a method for storage of information, 3,641,318, 2-8-72, Cl. 235-61.12.
Tollinger, James, to Ithaca Gun Company Incorporated. Semi-automatic shotgun having rotary and sliding breech block, 3,680,433, 8-1-72, Cl. 89-185.000.
Tollison, James W.; and Kelley, Joe, to Riegel Textile Corporation. Loom attachments for making fringes, 3,705,607, 12-12-72, Cl. 139-116.000.
Tolliver, Donald L.: *See—*
Barone, Frank J.; and Tolliver, Donald L., 3,698,948.
Barone, Frank J.; and Tolliver, Donald L., 3,706,918.
Tolliver, Peter M., 1/3 to Genca, Samuel R. Gun holster, 3,664,558, 5-23-72, Cl. 224-1.00r.
Tolliver, Richard J., to PPG Industries, Inc. Antenna windshield, 3,680,132, 7-25-72, Cl. 343-713.000.
Tollkuhn, Arthur W., to Memorex Corporation. Magnetic tape cassette, 3,642,228, 2-15-72, Cl. 242-199.
Tollkuhn, Arthur W., to Memorex Corporation. Method of loading cassettes, 3,684,203, 8-15-72, Cl. 242-67.300.
Tolman, Thomas William Charles: *See—*
Horsewell, Henry George; and Tolman, Thomas William Charles, 3,635,226.
Tolman, Thomas William Charles, to Brown and Williamson Tobacco Corporation. Tobacco-smoke filter, 3,693,632, 9-26-72, Cl. 131-266.000.
Tolmie, Robert J., to Sperry Rand Corporation. Cutter head for electric dry shaver, 3,648,367, 3-14-72, Cl. 30-43.6.
Tolmie, Robert J., to Sperry Rand Corporation. Control means for a rechargeable battery, 3,673,001, 6-27-72, Cl. 136-110.000.
Tolnai, Julius L.: *See—*
Palmer, Patsy B.; and Tolnai, Julius L., 3,661,181.
Tolosa, Roberto. Method of coating dentures to provide a polished surface, 3,649,345, 3-14-72, Cl. 117-138.8.
Tolson, Bill A.: *See—*
Davis, Edwin J.; and Tolson, Bill A., 3,666,051.
Tolson, Raymond C. Jr.: *See—*
Tolson, Raymond C. Sr.; and Tolson, Raymond C. Jr., 3,706,573.
Tolson, Raymond C. Sr.; and Tolson, Raymond C. Jr., to G. T. Products, Inc. Fried rice product and process for producing same, 3,706,573, 12-19-72, Cl. 99-80.00r.
Toma, Sam Z.: *See—*

- Mathers, James E.; and Toma, Sam Z., 3,649,555.
Toma, Setsuo, to Nissan Jidosha Kabushiki Kaisha. Clutch with centrifugal dump valve. 3,647,037, 3-7-72, Cl. 192-106.
Tomado N.V.: See—
Dekker, Adrian, 3,645,427.
Tomaiuolo, Theodore J. Telephone handset attachment for facilitating directory reading. 3,651,285, 3-21-72, Cl. 179-178.
Tomalia, Donald A., to Dow Chemical Company, The. 2,2'-Alkylenebis-2-oxazolines and oxazines. 3,639,395, 2-1-72, Cl. 260-240.
Tomalia, Donald A.; and Thomas, Robert J., to Dow Chemical Company, The. Monooxazoline and oxazine cured epoxy resins. 3,640,957, 2-8-72, Cl. 260-47.
Tomalia, Donald A.; and Thill, Bruce P., to Dow Chemical Company, The. Copolymers of bis-oxazolines and dithiol compounds as curing agents for polyepoxides. 3,670,046, 6-13-72, Cl. 260-830.
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Tomalia, Donald A., to Dow Chemical Company, The. 2-(Aryloxy)-2-thiazolinium compounds. 3,697,537, 10-10-72, Cl. 260-306.700.
Tomalinas, William R., Jr., to Roth-American, Inc. Playground apparatus. 3,674,262, 7-4-72, Cl. 272-85.000.
Toman, Joseph R.: See—
Olson, Robert E.; and Toman, Joseph R., 3,639,764.
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Tomaschko, Heinrich: See—
Senolt, Hans; Tomaschko, Heinrich; and Palvik, Georg, 3,652,445.
Tomashek, James R.: See—
Crowell, Jack R.; Tomashek, James R.; and Ward, Donald H., 3,670,801.
Tomasi, Biagio J.: See—
Potter, Olin E.; and Tomasi, Biagio J., 3,690,371.
Tomasik, Georges: See—
Prost Marechal, Jacques; and Tomasik, Georges, 3,646,151.
Tomasovich, Martin. Bin turning mixer. 3,685,361, 8-22-72, Cl. 73-421.00b.
Tomasulao Walter M., Jr.: See—
Adelson, Alexander M.; Swartz, Jerome; and Tomasulao Walter M., Jr., 3,688,066.
Tomaszewski, Lillie C.: See—
Tomaszewski, Thaddeus W.; and Tomaszewski, Lillie C., 3,666,636.
Tomaszewski, Thaddeus W.: See—
Brown, Henry; and Tomaszewski, Thaddeus W., 3,658,488.
Brown, Henry; and Tomaszewski, Thaddeus W., 3,677,907.
Brown, Henry; and Tomaszewski, Thaddeus W., 3,687,824.
Tomaszewski, Thaddeus W.; and Tomaszewski, Lillie C., to Udylite Corporation, The. Electrolytic codeposition of fine particles with copper. 3,666,636, 5-30-72, Cl. 204-16.000.
Tomaszewski, Thaddeus W., to Udylite Corporation, The. Electrolytic codeposition of copper with fine particles. 3,672,970, 6-27-72, Cl. 204-52.00r.
Tomco, Inc.: See—
Thomas, Vitas T.; and Lovdahl, Robert A., 3,687,016.
Tomcufcik, Andrew Stephen: See—
Child, Ralph Grassing; Svokos, Steve George; and Tomcufcik, Andrew Stephen, 3,642,990.
Curran, William Vincent; Ross, Adma Schneller; and Tomcufcik, Andrew Stephen, 3,689,652.
Tomelleri, Giordano. Apparatus for cutting fruit and removing stones therefrom. 3,633,641, 1-11-72, Cl. 146-28.
Tomeoku, Hiroshi: See—
Kawabe, Ushio; Kimura, Hiroshi; Tomeoku, Hiroshi; and Doi, Toshio, 3,673,444.
Tomes, Vaclav: See—
Dubsek, Frantisek; Tomes, Vaclav; Nigrin, Mojmir; and Sobotka, Jiri, 3,635,286.
Tomezsko, Edward S.: See—
Mitchell, Maurice M., Jr.; Fisher, Harold M.; and Tomezsko, Edward S., 3,655,792.
Mitchell, Maurice M., Jr.; Fisher, Harold M.; and Tomezsko, Edward S., 3,655,800.
Tomezsko, Edward S. J., to Atlantic Richfield Company. Catalytic oxidative dehydrogenation of paraffin. 3,697,614, 10-10-72, Cl. 260-683.300.
Tomia, Umberto. Hair curl setting and drying device. 3,693,636, 9-26-72, Cl. 132-33.00r.
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Tomii, Kaoru: See—
Miyama, Hiroshi; and Tomii, Kaoru, 3,657,585.
Tomie, Kazuo: See—
Makishima, Shoji; Hirai, Hidefumi; Tomie, Kazuo; and Kudo, Tetsuichi, 3,684,578.
Tomlinson, Harold W. Display package and label. 3,698,551, 10-17-72, Cl. 206-80.00r.
Tomilov, Andrei Petrovich; Klimov, Vladimir Alexeevich; and Varshavsky, Semen Lvovich. Method of electrochemical hydromerization of olefinic compounds. 3,661,739, 5-9-72, Cl. 204-73.
Tomimatsu, Yoshio, to Matsushita Electric Industrial Co., Ltd. Constant tension controller device for winder. 3,670,975, 6-20-72, Cl. 242-45.000.
Tomimori, Kiyoshi: See—
Fudemoto, Isao; Tomimori, Kiyoshi; Nakamura, Eiichi; and Kimura, Yutaka, 3,646,269.
Tomimura, Noboru: See—
Ozawa, Syuichi; and Tomimura, Noboru, 3,701,056.
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Tomimaga, Hiroshi; and Takamatsu, Masanobu, to Tokyo Sharyo Seizo Kabushiki Kaisha. Material forming apparatus utilizing hydraulic pressure. 3,681,959, 8-8-72, Cl. 72-60.000.
Tomimaga, Naotugu: See—
Nakai, Tuneso; Ando, Akira; Minehisa, Setuzi; Kaneko, Shunsuke; Siraki, Yosinori; Inui, Tatuo; Nakazima, Hiroyuki; and Tomimaga, Naotugu, 3,660,629.
Tomimaga, Yasushi: See—
Oshima, Keiji; Yamada, Shozo; Sakurai, Fujio; Iwasa, Yoshisuke; Horiuchi, Koichi; Uchida, Unosuke; Nomura, Teruhiko; and Tomimaga, Yasushi, 3,699,203.
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Tomimaga, Yoshio; Kawagoe, Hiroto; and Teranishi, Yuichi, to Hitachi, Ltd. Field effect semiconductor devices. 3,688,165, 8-29-72, Cl. 317-235.00r.
Tomingas, Henry R.; and Zook, Ralph P. Flexible vehicle wiper. 3,649,987, 3-21-72, Cl. 15-245.
Tomio, Takeuchi: See—
Umezawa, Hamao; Shinichi, Kondo; Kenji, Maeda; Tomio, Takeuchi; and Masa, Hamada, 3,679,742.
Tomioaka, Hideo: See—
Nagano, Hiroshi; Tomioaka, Hideo; Yamataka, Akira; and Yoshida, Hirohiko, 3,635,634.
Tomioaka, Katsuyoshi: See—
Komatsu, Koei; Okuya, Eitaro; Tomioaka, Katsuyoshi; Sakai, Masato; Hayashi, Shigeki; Yasunaga, Hidetoshi; and Kogure, Akira, 3,669,943.
Tomioaka, Keitaro: See—
Hata, Toju; Kamada, Hideo; Wakaki, Shigetoshi; Kudo, Shiro; Tomioaka, Keitaro; Mirumo, Hirofuto; Kato, Eturo; and Shimizu, Motoaki, 3,660,578.
Tomisawa, Norio, to Nippon Gakki Seizo Kabushiki Kaisha. Sawtooth wave frequency divider circuit. 3,651,337, 3-21-72, Cl. 307-225.
Tomisawa, Norio, to Nippon Gakki Seizo Kabushiki Kaisha. Frequency divider circuit for producing a substantially sawtooth wave. 3,654,558, 4-4-72, Cl. 328-35.
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Tomita, Chikayoshi: See—
Miyata, Akira; Kubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, 3,689,381.
Miyata, Akira; Tomita, Chikayoshi; Suzuki, Akio; Okubo, Hideyo; and Nagakumi, Masahiko, 3,699,012.
Miyata, Akira; Okubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, 3,701,677.
Miyato, Akira; Ohkubo, Hideyo; Tomita, Chikayoshi; and Suzuki, Akio, 3,699,013.
Tomita, Katsunobu; Ishii, Kentaro; Tanaka, Yoshito; and Saito, Takao, to Japanese National Railways and Sumitomo Metal Industries, Ltd. Method of removing residual stress for improving fatigue strength of boundary of heated zone. 3,652,345, 3-28-72, Cl. 14-134.

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Tomita, Mamoru: See—
Nagasawa, Taro; Tomita, Mamoru; Obayashi, Tomokazu; Tamura, Yoshitaka; and Kenmotsu, Yoko, 3,674,500.
Tomita, Tamaki; and Suzuki, Akira, to Toyoda Koki Kabushiki Kaisha. Rotary pump. 3,632,232, 1-4-72, Cl. 417-300.
Tomita, Tamaki; and Suzuki, Akira, to Toyda Koki Kabushiki Kaisha. Ball nut screw assembly. 3,673,886, 7-4-72, Cl. 74-424.80r.
Tomita, Teiji: See—
Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.
Tomiwa, Hiroshi: See—
Matsuo, Masao; and Tomiwa, Hiroshi, 3,646,404.
Tomiya, Eijiro; and Heim, John H., said Tomiyama assor. to Tomy Kogyo Co., Ltd. Motor-driven rolling toy. 3,667,156, 6-6-72, Cl. 46-243.
Tomiya, Eijiro, to Tomy Kogyo Co., Ltd. Remotely controllable toy transporter for vehicles. 3,675,366, 7-11-72, Cl. 46-244.00a.
Tomiya, Eijiro. Toy parking garage. 3,694,953, 10-3-72, Cl. 46-12.000.
Tomiya, Eijiro, to Tomy Kogyo Co., Ltd. Track device for toy vehicle. 3,703,989, 11-28-72, Cl. 238-10.00e.
Tomiya, Katsumi: See—
Endo, Yoshitaka; Tomiyama, Katsumi; and Takanashi, Yasushi, 3,702,435.
Tomiya, Shunsuke: See—
Yamamoto, Manabu; Tomiyama, Shunsuke; and Saito, Susumu, 3,651,367.
Tomiya, Takeshi; and Sudow, Masanobu, to Nippon Kokan Kabushiki Kaisha. Hull form of a ship provided with a cylindrical bow. 3,653,352, 4-4-72, Cl. 114-56.
Tomiyasu, Hiroshi; Inagaki, Tsuguya; Kajiru, Hiroshi; and Watanabe, Kinnosuke. Device for measuring flow rates of powdery and granular materials. 3,640,135, 2-8-72, Cl. 73-228.
Tomiyasu, Kiyo, to General Electric Company. Coolable slab laser. 3,665,335, 5-23-72, Cl. 331-94.5.
Tomiyasu, Kiyo, to General Electric Company. Waveguide process. 3,694,911, 10-3-72, Cl. 29-600.000.
Tomizawa, Kenji: See—
Inose, Hiroshi; Saito, Tadao; Tokunaga, Takehisa; and Tomizawa, Kenji, 3,692,942.
Tomizuka, Katsushige: See—
Kashima, Hiroshi; Tomizuka, Katsushige; and Uozumi, Yoshinobu, 3,688,358.
Tomkinson, John G.: See—
Ryan, John W.; Tomkinson, John G.; and Wieman, Paul R., 3,675,925.
Tomko, John E.: See—
Neff, Gordon W.; Sambucetti, Carlos J.; and Tomko, John E., 3,689,378.
Tomlin, Clive Dudley Spencer; and Mangalji, Anil Sunderji, to Imperial Chemical Industries Limited. Process for making 2,3,5-trichloro-4-pyridinol. 3,644,388, 2-22-72, Cl. 260-297.
Tomlin, Robert Derrick, to Magnatex Limited. Mounting means. 3,703,270, 11-21-72, Cl. 248-475.00a.
Tomlinson, Charles N.: See—
Davey, Ronald E.; Tomlinson, Charles N.; and White, Alan, 3,669,826.
Tomlinson, Charles W., to Acme Visible Records, Inc. Conveyor drop box. 3,672,663, 6-27-72, Cl. 271-64.000.
Tomlinson Industries, Inc.: See—
Giese, Elroy J., 3,695,209.
Tomlinson, Kenneth: See—
Mitchell, Harry Ian; and Tomlinson, Kenneth, 3,672,993.
Tomlinson, Lee H.: See—
Moore, George E.; and Tomlinson, Lee H., 3,660,041.
Tomlinson, Lee H., to General Electric Company. Momentum slot centrifugal type separator. 3,670,479, 6-20-72, Cl. 55-416.000.
Tomlinson, Norvin P. Miles per gallon meter. 3,635,079, 1-18-72, Cl. 73-114.
Tomlinson, Roy, to Connollys (Blackley) Limited. Method of impregnating and coating stranded bodies. 3,672,974, 6-27-72, Cl. 117-115.000.
Tomlinson, Thomas Alfred. Plumbing device. 3,704,729, 12-5-72, Cl. 138-90.000.
Tomlinson, Walter John, III: See—
Chandross, Edwin Arthur; Fork, Richard Lynn; Lamola, Angelo Anthony; and Tomlinson, Walter John, III, 3,668,663.
Chandross, Edwin Arthur; Fork, Richard Lynn; Kaminow, Ivan Paul; and Tomlinson, Walter John, III, 3,689,264.
Tomlinson, William H., to Columbian Steel Tank Company. Discharge means for tanks or bins. 3,707,249, 12-26-72, Cl. 222-464.000.
Tommaney, Joseph W.; and Muscatell, Francis L., to Allegheny Ludlum Industries, Inc. Consumable electrode melting using a centrifugal cast electrode. 3,656,535, 4-18-72, Cl. 164-52.
Tommaney, Joseph W., to Allegheny Ludlum Steel Corporation. Power partition control for consumable electrode furnaces. 3,672,428, 6-27-72, Cl. 164-52.000.
Tommaney, Joseph W.; and Preston, Jack, to Allegheny Ludlum Industries, Inc. Consumable electrode melting. 3,687,187, 8-29-72, Cl. 164-52.000.
Tommasino, Luigi: See—
Cross, William Gunn; and Tommasino, Luigi, 3,663,815.
Tomoda, Katsumi: See—
Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Tsubaki, Keisuke, 3,652,399.
Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Tsubaki, Keisuke, 3,655,570.
Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Kodama, Reijiro, 3,691,014.
Tomoegawa Paper Manufacturing Co., Ltd.: See—
Hasegawa, Haruo; Sugiyama, Kimroku; Suzuki, Kikuji; and Hirano, Kunio, 3,672,888.
Nakao, Osakazu; Nakagawa, Saburo; Hirose, Juichi; Yamazaki, Shigeyuki; Amano, Takashi; Nakamura, Toshio; and Yamamoto, Hiroyuki, 3,658,735.
Nakao, Osakazu; Nakagawa, Saburo; Hirose, Juichi; Yamazaki, Shigeyuki; Amano, Takashi; Nakamura, Toshio; and Yamamoto, Hiroyuki, 3,669,916.
Yasuda, Toshitaka; Katayama, Shiro; and Suzuki, Yutaka, 3,650,954.
Tomomitsu, Toshio; and Fujii, Tatsuo, to Nippon Kogaku K.K. Exposure meter having battery voltage compensating device. 3,648,579, 3-14-72, Cl. 95-10.
Tomokawa, Hideo: See—
Doi, Kazuo; Nakajima, Jun; Takahashi, Hisamitsu; and Tomokawa, Hideo, 3,669,699.
Tomomatsu, Hideo, to Jefferson Chemical Company, Inc. Condensation products of aluminum hydroxide and an aluminum alcoholate. 3,679,723, 7-25-72, Cl. 260-448.0ad.
Tomomitsu, Toshio: See—
Fujii, Tatsuo; and Tomomitsu, Toshio, 3,700,337.
Tomomitsu, Toshio; and Fujii, Tatsuo, to Nippon Kogaku K.K. Exposure measuring device. 3,671,769, 6-20-72, Cl. 307-311.
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Tomozaki, Riyouzou: See—
Murakami, Tadao; Kikuchi, Ken; Tomozaki, Riyouzou; and Ohuchi, Yasushi, 3,703,227.
Tomozawa, Atsushi, to Nippon Electric Company, Limited. Addition or subtraction circuit for the gray codes based on the modulus of 4. 3,659,090, 4-25-72, Cl. 235-176.
Tomozawa, Atsushi, to Nippon Electric Company, Limited. Frame synchronizing circuit for high clock frequency digital communication. 3,699,261, 10-17-72, Cl. 179-15.0bs.
Tomozuka, Haruki: See—
Sugiyama, Iwakichi; and Tomozuka, Haruki, 3,642,510.
Tompkins, Charles A., 50% to Tompkins, Ketsy Eileen. Tool-level indicator structure. 3,664,032, 5-23-72, Cl. 33-207.00r.
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Tompkins, James R.: See—
Griswold, Augustus W.; and Tompkins, James R., 3,673,853.
Tompkins, Ketsy Eileen: See—
Tompkins, Charles A., 3,664,032.
Tompkins, Russell E.: See—
Edgar, Robert F.; Martzloff, Francois D.; and Tompkins, Russell E., 3,671,893.
Tompkins, Victor N.; Miller, Kent D.; Muraschi, Thelma F.; and Fenton, John W., II. Immunization methods against toxic effects of bacterial infection. 3,658,986, 4-25-72, Cl. 424-88.
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Tom's Hydraulic Supply: See—
Conner, Tom E., 3,642,324.

Toms River Chemical Corporation: *See*—
 Illy, Hugo; and Funderburk, Lance Harmon, 3,639,420.
 Lohmann, Karl Heinz, 3,655,637.
 Stingl, Hans Alfred, 3,637,338.
 Stingl, Hans Alfred, 3,685,957.
 Tomsa, Stanley J.: *See*—
 Glasser, James R.; and Tomsa, Stanley J., 3,660,765.
 Glasser, James R.; and Tomsa, Stanley J., 3,693,113.
 Tomsic, Raymond F., to Spectrum Infrared, Inc. Oven with closure mechanism, 3,655,942, 4-11-72, Cl. 219-405.
 Tomson, Arthur J.: *See*—
 Passal, Frank; and Tomson, Arthur J., 3,678,055.
 Tomson, Arthur James: *See*—
 Kardos, Otto; Arcilesi, Donald Allan; Tomson, Arthur James; and Valayil, Sylvester Paul, 3,682,788.
 Tomy Kogyo Co., Ltd.: *See*—
 Aoki, Masaru, 3,667,154.
 Aoki, Masaru, 3,693,291.
 Arai, Toshikatsu, 3,680,777.
 Morosawa, Teruo, 3,670,450.
 Shinoda, Yoshie, 3,633,309.
 Tomiyama, Eijiro; and Heim, John H. (said Tomiyama assor. to), 3,667,156.
 Tomiyama, Eijiro, 3,675,366.
 Tomiyama, Eijiro, 3,703,989.
 Usami, Hikoo, 3,698,130.
 Tonic, Pauline F.: *See*—
 Blank, Fritz; Day, William C.; Harmon, Sandra R.; Tonic, Pauline F.; and Yu, Ruey J., 3,674,645.
 Tone, Frederick F., to Eastman Kodak Company. Method and apparatus for manufacturing aperture cards, 3,668,980, 6-13-72, Cl. 93-1,00r.
 Toney, Kakuji: *See*—
 Seino, Shuichi; Fujino, Tomizo; and Toney, Kakuji, 3,637,672.
 Toney, Kakuji: *See*—
 Honda, Takeo; and Toney, Kakuji, 3,638,031.
 Tonelli, George. Compositions having testosterone antagonistic effects and method of using the same, 3,644,628, 2-22-72, Cl. 424-270.
 Tonelli, Guido Antonio, to Alfa-Laval AB. Apparatus for removing teat cups, 3,690,300, 9-12-72, Cl. 119-14,080.
 Toney, Jack, to Craft Master Corporation. Decorative composition, 3,635,832, 1-18-72, Cl. 252-301,30r.
 Toney, Myron K.: *See*—
 Tapp, James S.; Colwell, Robert E.; and Toney, Myron K., 3,661,864.
 Tong, Duncan. Motor driven toy vehicles, 3,659,378, 5-2-72, Cl. 46-244.
 Tong, Homer H. C.: *See*—
 Skinner, Wilfred A.; and Tong, Homer H. C., 3,636,212.
 Tong, Mathias, to Compagnie d'Applications Mecaniques a l'Electronique, Au Cinema et a l'Atomistique (C.A.M.E.C.A.). Infra-red spectrometers, 3,659,941, 5-2-72, Cl. 356-51.
 Tong, Shih Y.: *See*—
 Burton, Herbert O.; Reddy, Sudhakar M.; Sullivan, Daniel D.; and Tong, Shih Y., 3,638,182.
 Tonyai, Singkata, to Pennwalt Corporation. Coatings for steel, 3,649,371, 3-14-72, Cl. 148-6,14.
 Toni, Anselmo, to United Aircraft Corporation. Engine rating pressure ratio computer, 3,635,398, 1-18-72, Cl. 235-88.
 Tonies, Lawrence A.; and Teasdale, James R., to Mangood Corporation. Method and apparatus utilizing unique CDAB sequence for detecting synchronization error in railway vehicle read-out signal, 3,646,327, 2-29-72, Cl. 235-92.
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 Tonies, Lawrence A., to Mangood Corporation. Method and apparatus for identifying engines in a train of railway vehicles, 3,659,261, 4-25-72, Cl. 340-23.
 Tonka Corporation: *See*—
 Adickes, Cecil F., 3,646,706.
 Adickes, Cecil F., 3,693,282.
 Jensen, Douglas S., 3,701,217.
 Pauly, Ronald R., 3,668,806.
 Pfeilsticker, Lee J.; and Pauly, Ronald R., 3,703,785.
 Pfeilsticker, Lee J., 3,707,054.
 Zbikowski, Theodore H.; Jensen, Douglas S.; and Pfeilsticker, Lee J., 3,653,147.
 Tonkin, Stephen W., to Dunlop Holdings Limited. Pedestrian transport conveyor installations, 3,664,266, 5-23-72, Cl. 104-25,000.
 Tonkowich, William; Meditz, John A.; and Vignola, Paul, to Safetech, Inc. Sequentially coded electrical locking means, 3,662,226, 5-9-72, Cl. 317-134.
 Tonkowich, William; Meditz, John A.; and Vignola, Paul, to Safetech, Inc. Anti-theft device for motor vehicles, 3,670,836, 6-20-72, Cl. 180-114,000.
 Tonkyn, Richard G.: *See*—
 Cervi, Frank R.; and Tonkyn, Richard G., 3,705,005.

Tonn, Erwin W. Sealing gasket for a container, 3,701,452, 10-31-72, Cl. 220-46,00r.
 Tonne, Franz; Brand, Werner; and Wolowitz, Benno, to Waggon-fabrik Verdingen A.G. Stairway for rail-mounted conveyances, 3,675,593, 7-11-72, Cl. 105-447,000.
 Tonne, Friedrich. Checking device for checking the presence of personnel, 3,641,321, 2-8-72, Cl. 235-92.
 Tonnisen, Jörn Yding: *See*—
 Griffioen, Albert; Hofmeijer, Jan; Van Milligen, Paul Cornelis; Tonnisen, Jörn Yding; and Van Zanten, Jacobus Martinus, 3,665,718.
 Tonoike, Takao: *See*—
 Konotsune, Shiro; Kachi, Atsuyuki; Tonoike, Takao; and Mori, Kinya, 3,669,948.
 Tonry, James Richard: *See*—
 Hersey, Arthur Theodore; and Tonry, James Richard, 3,689,295.
 Tonsbeek, Christiaan Herman Theodoor: *See*—
 Copler, Harald; and Tonsbeek, Christiaan Herman Theodoor, 3,678,064.
 Tonsbeek, Christiaan Herman Theodoor, to Lever Brothers Company. Furanone meat flavor compositions, 3,697,291, 10-10-72, Cl. 99-107,000.
 Tonsfeldt, Wayne S., to Alloway Manufacturing Inc., mesne. Row crop cultivator, 3,680,648, 8-1-72, Cl. 172-159,000.
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 Tonus, Inc.: *See*—
 Stearns, Richard E.; 3,665,089.
 Tooka, Takuzo; Nozaki, Choji; and Kono, Kiichi, to Kabushiki Kaisha Toyota Jidoshokki Seisakusho and Kabushiki Kaisha Toyota Chuo Kenkyusho. Practical method and apparatus for driving an open-end spinning frame, 3,704,579, 12-5-72, Cl. 57-34,00r.
 Tool Research & Engineering Corporation: *See*—
 Nolin, Roger J.; and Brizzi, Anthony F., 3,647,252.
 Nolin, Roger J., 3,695,664.
 Nolin, Roger J., 3,702,553.
 Roberts, Horace R.; and Brizzi, Anthony F., 3,635,571.
 Tool Research Engineering Corporation: *See*—
 Purciel, Larry R., 3,692,173.
 Toole, Pierce C., to United States of America, National Aeronautics and Space Administration. High speed direct binary to binary coded decimal converter, 3,638,002, 1-25-72, Cl. 235-155.
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 Toole, Richard Charles: *See*—
 Nacci, George Raymond; and Toole, Richard Charles, 3,698,005.
 Toolmark Co.: *See*—
 Novak, Ronald D.; and Petersen, Paul S., 3,691,900.
 Toolmasters Limited: *See*—
 Hallewell, Bernard Frederick, 3,683,560.
 Mattingly, Frederick William, 3,678,311.
 Toombs, Harold D.: *See*—
 Hylun, Tom M.; Kilby, Jack S.; Luecke, Gerald; and Toombs, Harold D., 3,698,082.
 Toombs, Peter Alan Birrell, to International Standard Electric Corporation. Glass-clad wire gas discharge display matrix, 3,681,655, 8-1-72, Cl. 315-169,00r.
 Toombs, Thomas N.: *See*—
 Dill, Hans G.; Erb, Darrell M.; and Toombs, Thomas N., 3,633,078.
 Toomer, Charles H. Device for use in picking berries, and the like, 3,705,485, 12-12-72, Cl. 56-330,000.
 Toomey, Charles L.; and Butler, Gerald D. Apparatus for making fluorescent lamps, 3,704,927, 12-5-72, Cl. 316-30,000.
 Toomey, Francis J. Hydraulic emergency brake system, 3,680,314, 8-1-72, Cl. 60-54,50e.
 Toomey, Thomas J. Combination kitchen and clothes trailer, 3,705,743, 12-12-72, Cl. 296-23,00r.
 Tooming, Khugo Gustavovich: *See*—
 Pajulaid, Manivald Maximovich; and Tooming, Khugo Gustavovich, 3,664,694.
 Toon, Paul: *See*—
 Lunts, Lawrence H. C.; and Toon, Paul, 3,644,353.
 Lunts, Lawrence Henry; and Toon, Paul, 3,705,233.
 Toops, Emory Earl, Jr., to Commercial Solvents Corporation. Non-caking, grained ammonium nitrate, 3,640,697, 2-8-72, Cl. 71-27.
 Toothman, Lawrence R.: *See*—
 Heinrichs, Frank W., Jr.; Polasky, Alex F.; Honey, Charles C.; and Toothman, Lawrence R., 3,681,516.
 Top Aid Corporation: *See*—
 Dozier, Willie L.; and Carter, James M., Jr., 3,681,541.
 Topazio, Vincent: *See*—
 Puchkoff, Zalman P.; and Topazio, Vincent, 3,664,572.

Topcik, Barry, to Cities Service Company. Tubeless tire inner liner composition comprising natural rubber, butyl rubber and medium thermal black, 3,639,308, 2-1-72, Cl. 260-5.
 Topcik, Barry, to Cities Service Company. Method of making pellets of precipitated silica, 3,646,183, 2-29-72, Cl. 264-117.
 Topcik, Barry, to Columbian Carbon Company. Rubber compounding, 3,687,893, 8-29-72, Cl. 260-41,500.
 Toperzer, John W.; Neogi, Shibendra P.; and Beachy, Dale K., to Koppers Company. Cooling bed, 3,693,954, 9-26-72, Cl. 266-2,00r.
 Topfer, Heinz: *See*—
 Stauff, Emile; Guillot, Jean; Allard, Pierre; Schubert, Johannes; Topfer, Heinz; and Prier, Erich, 3,653,288.
 Topham, Arthur: *See*—
 Bagai, Satish Kumar; and Topham, Arthur, 3,647,496.
 Dawson, Fred; Mitchell, John; Rogers, Leslie Richard; Todd, William; and Topham, Arthur, 3,661,611.
 Topinka, George F., to Pratt, Henry, Company. Buried valve position indicator, 3,656,504, 4-18-72, Cl. 137-363.
 Topliss, John G., to Schering Corporation. Thieno[1,2,4]thiadiazines, 3,641,017, 2-8-72, Cl. 260-243.
 Topliss, John G., to Schering Corporation. 2-Polyfluoroloweralkyl benzophenones, 3,641,147, 2-8-72, Cl. 260-562.
 Topol, George J.: *See*—
 Levin, Gilbert V.; and Topol, George J., 3,654,146.
 Levin, Gilbert V.; and Topol, George J., 3,654,147.
 Topol, George J., to Biospherics Incorporated. Internal precipitation of phosphate from activated sludge, 3,681,235, 8-1-72, Cl. 210-6,000.
 Topol, George J. Apparatus for adding material to liquids, 3,693,797, 9-26-72, Cl. 210-96,000.
 Topolyansky, Jury Arnoldovich: *See*—
 Alexandrov, Adolf Moritovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Kantor, Ilia Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhanelidze, Vazna Venediktovich; Topolyansky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, 3,689,010.
 Topopolsky, Yankel Meerovich; and Shikhman, Mark Aronovich, to Vsesojuzny Proektno-Konstruktorsky Institut Svarochnogo Proizvodstva. Device for removing flash from seams of butt-welded long-measure articles, 3,703,114, 11-21-72, Cl. 83-3,000.
 Topp Ltd., Incorporated: *See*—
 Toppel, Lewis R., 3,655,325.
 Toppman Company, The: *See*—
 Mackay, Frederick G.; and Stratman, Jerome F., 3,648,878.
 Toppman Printing Company Limited: *See*—
 Mizutani, Takashi; Anzai, Masao; and Ebihara, Akio, 3,647,503.
 Noguchi, Kinichi, 3,645,734.
 Suzuki, Eiichi, 3,689,153.
 Toppel, Lewis R., to Topp Ltd., Incorporated. Smoking deterrent, 3,655,325, 4-11-72, Cl. 274-14.
 Topper Corporation: *See*—
 Tepper, Sidney; and Boydman, Hyman P., 3,641,703.
 Tepper, Sidney, 3,648,405.
 Tepper, Sidney; Tierney, William; and Lilinga, Nicholas, 3,672,082.
 Tepper, Sidney; and Lalinga, Nicholas, 3,672,092.
 Wiltse, Donald G., 3,698,117.
 Toppins, Charles R.; Harvey, Samuel E.; Liberman, Harvey W.; Ratledge, Houston; and Voorhees, Steven C., to Dempster Brothers, Inc. Refuse collection vehicles, 3,696,951, 10-10-72, Cl. 214-83,300.
 Topy Industries, Limited: *See*—
 Osawa, Shigeru; and Kanazawa, Michio, 3,653,719.
 Torano Limitee: *See*—
 Hedrei, Constantin, 3,703,196.
 Toray Industries, Inc.: *See*—
 Abe, Hisao; and Tatsumi, Masanori, 3,684,665.
 Asahara, Tomohiko; Yoda, Naoya; and Minami, Nuneyoshi, 3,669,930.
 Fujii, Shigeru; and Saito, Iso, 3,639,335.
 Fujii, Shigeru; Miwa, Takashi; Noji, Kazushige; Okagawa, Chikatsu; and Toki, Masamichi, 3,645,819.
 Fukada, Shunsuke; and Nakanishi, Toru, 3,707,593.
 Fukuda, Tadanori; Takahashi, Masao; Ogihara, Shoji; and Sekiya, Masato, 3,706,589.
 Hasegawa, Katsumi; Ando, Akio; Okada, Morio; Kohno, Yukio; Aoi, Norihiro; Kamo, Tadasu; Hikita, Shinito; and Fukuda, Atsushi, 3,650,486.
 Ikai, Masaru; Ishii, Toshikazu; and Higashikuze, Michiaki, 3,664,069.
 Inoue, Takehisa; Sato, Masaki; and Hashiguchi, Takeshi, 3,671,602.
 Ishitani, Akira; and Nukada, Kenkichi, 3,658,534.
 Ito, Koji; Arai, Sadao; and Tsuchiyama, Nobuo, 3,658,947.
 Ito, Shoji; Fujioka, Kotaro; Okamoto, Mitsuhiko; and Kikuchi, Tetsuya, 3,690,575.
 Kato, Tatsuya; Chikatsu, Nagoya; Suwada, Ataru; and Ohno, Satoyoshi, 3,658,766.

Kobayashi, Tsuneo; Morita, Ken-ichi; Kitagawa, Hiroshi; Yokoyama, Toshimitsu; and Makida, Shigeo, 3,644,375.
 Komatsu, Hideo; Yuguchi, Sadao; Tanimura, Masamitsu; and Matsukawa, Hiroshi, 3,705,130.
 Kubota, Takashi, 3,632,554.
 Minami, Muneyoshi; Taniguchi, Masaharu; Tsutsumi, Tadao; Murakami, Masakazu; and Yoshii, Toshiya, 3,673,145.
 Miyama, Hajime; Harumiya, Norihiro; Nakao, Mituru; Kimura, Mutsumi; Ito, Isao; and Ohgushi, Katunori, 3,682,800.
 Mizutani, Shigeru; Sumi, Kunio; and Ando, Shinji, 3,645,061.
 Morita, Ken-ichi; Mizushima, Toshio; Kitagawa, Hideji; and Sakai, Hiroshi, 3,632,798.
 Morita, Ken-ichi; and Kobayashi, Tsuneo, 3,657,323.
 Morita, Ken-ichi; Suzuki, Zennosuke; and Hirose, Hiromitsu, 3,678,093.
 Okamoto, Miyoshi; Ashida, Keiichi; and Watanabe, Koji, 3,692,423.
 Okamoto, Miyoshi; Mizuguchi, Shunji; and Watanabe, Koji, 3,705,226.
 Okamoto, Takehiko; Inoue, Masakazu; Kishimoto, Akihiko; and Sueyoshi, Tadahiro, 3,707,585.
 Okazaki, Kaoru; Shimokawa, Yoichi; Nakagawa, Asaharu; and Sugii, Kenji, 3,632,666.
 Okazaki, Kaoru; Shimokawa, Yoichi; Maeda, Taneo; Igawa, Keisuke; Okagawa, Chikatsu; and Kato, Koichi, 3,639,502.
 Okazaki, Kaoru; Tohyama, Shunroku; Nakata, Minoru; and Kishimoto, Kiyomi, 3,652,713.
 Sakai, Hiroshi; Izumi, Zenji; Kitagawa, Hideji; Mamada, Satoshi; and Hoshina, Masakuni, 3,660,527.
 Sano, Keizo; Watanabe, Taigi; Tanaka, Michihiko; Ichikawa, Yoshimitsu; Kato, Koichi; and Matsuura, Hirokichi, 3,682,846.
 Susami, Kozo; Minami, Keiichi; Tabata, Masaaki; Kojima, Teiry; and Yunoki, Zyuji, 3,660,973.
 Takahashi, Kuniyuki; Hata, Go; and Miyake, Akihisa, 3,676,470.
 Takaichi, Moriyuki; Hamachi, Naotoshi; Iwatuka, Gakuo; and Nakahara, Yoshiteru, 3,645,386.
 Tamai, Isamu; Oyama, Minoru; Osakada, Atsushi; and Shinohara, Yasuo, 3,655,542.
 Tatsumi, Masanori; and Abe, Hisao, 3,647,884.
 Toki, Masamichi; Hikota, Toyohiko; and Okamoto, Miyoshi, 3,706,613.
 Tsuda, Yoshizo; Yamamoto, Akinori; and Ikeda, Kozyuro, 3,649,602.
 Tsuda, Yoshizo; Yamamoto, Akinori; and Ikeda, Kozyuro, 3,649,603.
 Tsuda, Yoshizo; Yamamoto, Akinori; and Tanimura, Masamitsu, 3,652,509.
 Tsuda, Yoshizo; and Yamamoto, Akinori, 3,696,074.
 Tsuji, Jiro; Hara, Michio; and Ohno, Kiyotaka, 3,658,866.
 Wakamatsu, Shigeru; Kondo, Ryozo; and Shinomiya, Masayasu, 3,700,669.
 Wakamura, Nobuo; Okada, Hiroshi; Osakada, Atsushi; and Tanaka, Takashi, 3,645,928.
 Yamagata, Seiichi; Sakai, Masaaki; Matsubara, Toshimoto; and Yamashita, Shigeji, 3,645,080.
 Yamazaki, Chikayasu; Okabayashi, Minoru; and Ando, Koichiro, 3,661,012.
 Yanagi, Masana; Nakamura, Itaru; Ohosugi, Masayuki; Takizawa, Kiyos; Kakinami, Masanori; and Sano, Chikara, 3,658,634.
 Yasuhara, Yutaka; Nogi, Tatsuo; and Takahashi, Ikuzo, 3,655,744.
 Yoda, Naoya; Kubota, Takashi; Kurihara, Masaru; Dokoshi, Noriaki; and Yoshihi, Toshiya, 3,682,860.
 Torazza, Giovanni; and Giacosa, Dante, to Fiat Societa per Azioni. Valve actuating mechanism for an internal combustion engine, 3,641,988, 2-15-72, Cl. 123-90,16.
 Torazza, Giovanni, to Fiat Societa per Azioni. Fuel tank ventilation in motor vehicles, 3,685,504, 8-22-72, Cl. 123-136,000.
 Torazza, Giovanni, to Fiat Societa per Azioni. Fuel tank ventilation in motor vehicles, 3,695,243, 10-3-72, Cl. 123-136,000.
 Torba, Florence E., to Dow Chemical Company, The. Certain 6-(trifluoromethyl)-pyridinols, 3,682,936, 8-8-72, Cl. 260-297,00r.
 Torba, Florence E., to Dow Chemical Company, The. Polyhalo(trifluoromethyl)-pyridyloxy amides and hydrazides, 3,705,170, 12-5-72, Cl. 260-295,0am.
 Torcheux, Emile: *See*—
 Honore, Etienne A. H.; and Torcheux, Emile, 3,689,926.
 Torck, Bernard; and Sajus, Lucien, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for alkylating aromatic hydrocarbons, 3,666,825, 5-30-72, Cl. 260-671.
 Torcolacci, Attilio: *See*—
 Prusinski, Richard C.; Fermani, Marcello; Torcolacci, Attilio; and Fermani, Luigi, 3,679,529.
 Tord, Pierre F.: *See*—
 Mayor, Yoland P. P.; and Tord, Pierre F., 3,637,372.
 Torelli, Aldo; and Jacquemet, Andre, to Sandco Limited, mesne. Sealing means, 3,667,626, 6-6-72, Cl. 214-17.
 Torelli, Dorant. Aircraft, 3,689,011, 9-5-72, Cl. 244-12,00c.

- Torelli, Vesperto: *See—*
Amiard, Gaston; Nomine, Gerard; and Torelli, Vesperto, 3,686,241.
- Torello, Daniel D.: *See—*
Dinanno, Philip A., Jr.; Bonk, Joseph S.; Conrad, Kenneth C.; Moore, Rodney S.; Lochman, Harry E.; and Torello, Daniel D., 3,677,658.
- Torello-Viera, Eugene, to Bancroft, Joseph & Sons Co. Small denier stuffer crimper and method. 3,685,109, 8-22-72, Cl. 28-1.600.
- Torge, Reimund: *See—*
Prugger, Hans; and Torge, Reimund, 3,676,004.
- Torggler, Norbert: *See—*
Fritz, Robert; Beckh, Horst; and Torggler, Norbert, 3,636,267.
- Torguet, Roger: *See—*
Picquendar, Jean Edgar; and Torguet, Roger, 3,641,513.
- Torick, Emil: *See—*
Allen, Richard G.; and Torick, Emil, 3,668,322.
- Torick, Emil L.: *See—*
Allen, Richard G.; Bauer, Benjamin B.; and Torick, Emil L., 3,661,224.
- Torigoe, Yasuhiro. Method of manufacturing bags. 3,675,542, 7-11-72, Cl. 93-35.00r.
- Torii, Akiomi: *See—*
Sakamoto, Tetsuzo; and Torii, Akiomi, 3,669,559.
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Beguiristain, Luis, 3,636,974.
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Goy, Thomas J.; Knieriem, Richard P.; and Reading, James E., 3,640,390.
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Symoniak, Martin Francis; Torke, David Allen; and Holmes, Ervine Stout, 3,700,589.
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Schellgell, George M.; and Torke, Ward J., 3,641,918.
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Kennedy, Ralph C.; and Torning, Ralph R., 3,696,543.
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Cozewith, Charles; and Tornqvist, Erik G. M., 3,642,758.
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Johansson, Jari Harald; and Tornqvist, Jan Tore, 3,682,919.
- Tornqvist, Knut Melker Evald: *See—*
Gustavsson, Karl Axel Goran; and Tornqvist, Knut Melker Evald, 3,653,511.
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Klemenhagen, Dale A., 3,680,293.
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- Thorud, Richard A., 3,649,997.
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Paellian, Owen; Rister, Donald R.; and Kellar, Richard L., 3,706,349.
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Shukovsky, Harold Barry; and Torok, Theodore Elwyn, 3,639,217.
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Brown, Ced F., 3,687,083.
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Huguet, Michel; Rebut, Paul-Henri; and Torossian, Antoine, 3,684,992.
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Hamlin, David R.; and Torpey, William A., 3,679,116.
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Kirby, Edward J., 3,635,500.
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Stokey, Kenneth W.; and Chatterjee, Anil K., 3,702,039.
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Roberts, Joe R.; and Torrence, James L., 3,683,822.
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Batt, Robert S., 3,700,299.
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Ailing, Richard L., 3,644,007.
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Cavagnero, Erman V.; and Loftus, Joseph F., 3,654,693.
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Velavicius, Alfonsas; and Toruk, Nicholas, 3,643,378.
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Yamaji, Keizo; and Toryu, Takao, 3,682,539.
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Ohyama, Yasushi; Futaki, Kiyoshi; Tosa, Senji; Horiuchi, Yoshikazu; and Takemura, Akira, 3,666,471.
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Chibata, Ichiro; Tosa, Tetsuya; Sano, Ryujiro; and Ando, Katsuko, 3,652,402.
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Komiya, Takao; Tosaka, Umi; Ihara, Takashi; Matsuo, Takehiko; and Ohara, Katsunobu, 3,687,659.
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Son, Marion O., Jr.; and Tosca, William C., 3,687,201.
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Holy, Josef K.; and Toscano, Esteban J., 3,646,419.
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Paton, Boris Evgenievich; Medovar, Boris Ezrailevich; Chekotilo, Leonty Vasilievich; Pavlov, Leonid Viktorovich; Ariamov, Viktor Leonidovich; Borisovich, Kiev, Alexander; Kamensky, Leonid Alexeevich; Ishunkin, Veniamin Alexandrovich; Belenky, Alexandr Mikailovich; Shevisov, Anatoly Ivanovich; Grinspon, Semen Yakovlevich; Sysenko, Anatoly Pavovich; Dubinsky, Rudolf Solomonovich; Papav, Valery Georgievich; and Toschev, Alexandr Mikhaevich, 3,687,188.
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Crockett, Richard H., 3,706,482.
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Vuarouqueaux, Jean-Claude, 3,674,518.
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Iimura, Kazuo; Sawada, Kiyoshi; and Kato, Hiroki, 3,698,817.
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Kurokawa, Toshio; Nishiyama, Shoji; Nagai, Katsumi; and Mochizuki, Yuu, 3,700,229.
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Masayasu, Arikawa; Motomi, Kano; Katsuro, Iio; and Toshio, Tanaka, 3,669,335.
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Maffei, Silvio; and Tosi, Franco, 3,632,819.
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Leu, Francois J.; Tosin, Peter M.; and Werner, Ernst, 3,676,696.
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Johnson, Cecil J., 3,635,455.
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Denny, Donald I., 3,653,680.
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Reiter, Gyorgy; Szenasi, Sandor; Toth, Bela; and Rakosi, Ferenc, 3,652,940.
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Chaparro, John J.; Ellis, Lowell V.; Meanor, Doyle W.; Morton, William D., Jr.; Richelmann, Bernd H.; Ross, George B.; and Toth, John E., 3,677,401.
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Greguss, Pal; Nagy, Sandor B.; Erdei, Janos; and Toth, Lajos, 3,695,825.
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Szabo, Gyorgy; and Toth, Sandor, 3,687,775.
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Harlin, Lester E.; and Tothero, Dwight L., 3,684,412.
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Yamaguchi, Hiroshi, 3,646,544.
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Hanna, Drexel W., Jr., 3,663,754.
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Koski, William E.; Smith, Donald E.; and Touba, Ali R., 3,653,912.
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Ketley, Arthur Donald; Kehr, Clifton Leroy; and Touchette, Jennie Lee, 3,704,125.
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Woodhall, Edwin S.; Appleby, Paul E.; and Touchette, John W., 3,698,987.
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De Bie, Edouard; Tougarinoff, Boris; Sperner, Franz; and Moll, Justus, 3,689,046.
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Baltakmens, Gotlib; and Tourish, John P., 3,650,969.
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Kennedy, Matthew Campbell; and Tourle, Peter, 3,644,771.
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Auge, Jacques; Guillaume, Andre; and Tourniaire, Claude, 3,644,606.
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Kohler, Bernard Claude; Manoussi, Gerard Philippe; and Touron, Serge Auguste, 3,653,006.
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Plumat, Emile; Duthoit, Jean; Toussaint, Francois; and Van Laethem, Robert, 3,632,321.
Plumat, Emile; Toussaint, Francois; and Schottey, Jean, 3,639,198.
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Hudson, John L.; and Towell, Billy H., 3,659,256.
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Heady, Orville E.; Towell, John F.; and Standifer, Richard L., 3,671,199.
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Blackert, John E.; and Towers, Harvey S., 3,652,157.
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Olsen, George P.; Towle, Philip H.; and Baldwin, Richard H., 3,639,465.
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Itzler, Sidney; and Towle, Robert G., 3,667,336.
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Doyle, James R., 3,669,290.
Shaffer, Walter M., 3,691,863.
Shaffer, Walter M.; and Crawford, John T., 3,703,969.
- Town & Country Cleaners Franchises, Inc.: See—
Putt, Frank E., 3,699,607.
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Taylor, Laurence William; Town, Frank; and Omiotek, Emil, 3,631,681.
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Judd, Watson M., 3,661,048.
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Lyle, John P., Jr.; and Towner, Raymond J., 3,637,441.
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Olson, Virginia A.; and Townsend, Bruce A., 3,683,912.
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Beasley, Donald L., 3,674,071.
Beasley, Donald L., 3,683,456.
Beasley, Donald L., 3,683,789.
Beasley, Donald L., 3,685,561.
Greider, Charles Austin, 3,672,001.
Greider, Charles Austin, 3,694,853.
Townsend, Ray T., 3,687,058.
Townsend, Ray T., 3,703,199.
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Horton, James B.; and Townsend, Herbert E., Jr., 3,637,341.
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Stockham, John D.; Townsend, Lawrence B.; Ohlhaber, Ronald L.; and Scopelite, Thomas M., 3,641,320.
- Townsend, Leyshon W., Jr.; and Wilburn, Warren E., to Owens-Illinois, Inc. Glass-forming apparatus. 3,660,067, 5-2-72, Cl. 65-302.
- Townsend, Peter K., to AMP Incorporated. Electrical circuits and methods of fabrication. 3,681,743, 8-1-72, Cl. 339-218.00r.
- Townsend, Ray T., to Townsend Engineering Company. Machine for injecting fluids into meat products. 3,687,058, 8-29-72, Cl. 99-257.000.
- Townsend, Ray T., to Townsend Engineering Company. Automatic blade control mechanism for meat skinning machines. 3,703,199, 11-21-72, Cl. 146-130.000.
- Townsend, Richard Lee, Jr.: See—
Larsen, Arthur Bertel; Sosnowski, Thomas Patrick; and Townsend, Richard Lee, Jr., 3,681,519.
- Townsend, Robert H.: See—
Little, William S., Jr.; and Townsend, Robert H., 3,703,459.
- Townsend, Vernon R.; and Womeldorf, Waldo M., to Singer Company, The, mesne. X-Y coordinate locator. 3,665,102, 5-23-72, Cl. 178-18.
- Townslay, Malcolm G., to Plastic Contact Lens Company, The. Adjustable housing for apparatus for determining cornea contour. 3,639,043, 2-1-72, Cl. 351-38.
- Townsley, Malcolm G., to Erdco Engineering Corporation. Thermal oxidation tester heater tube deposit evaluator and method of using. 3,705,014, 12-5-72, Cl. 23-230.0pc.
- Towsley, LeRoy M.: See—
Boland, Daniel Edmund; Dewees, Leonard S.; and Towsley, LeRoy M., 3,668,302.
- Towson, Arthur L.: See—
Jarrell, Virgil N.; and Towson, Arthur L., 3,705,483.
- Toy, Albert: See—
Sinizer, David I.; Fanelle, Louis H.; Toy, Albert; and Atteridge, David G., 3,638,298.
Sinizer, David I.; Toy, Albert; Atteridge, David G.; and Fanelli, Louis H., 3,669,364.
- Toy, Arthur D. F., to Stauffer Chemical Company. Preparation of trialkenyl phosphites. 3,636,145, 1-18-72, Cl. 260-982.
- Toy, Arthur D. F., to Stauffer Chemical Company. Preparation of dialkenyl phosphonates. 3,636,146, 1-18-72, Cl. 260-982.
- Toy, Arthur D. F.; and Bell, Russell N., to Stauffer Chemical Company. Chlorinated trisodium phosphates. 3,656,890, 4-18-72, Cl. 23-50.
- Toy, Arthur D. F.; and Walsh, Edward N., to Stauffer Chemical Company. Flame retardant rayon composition and process. 3,704,144, 11-28-72, Cl. 106-15.0fp.
- Toy, Madeline S.: See—
United States of America, National Aeronautics and Space Administration, 3,639,510.
United States of America, National Aeronautics and Space Administration, 3,663,521.

- Toy, Madeline S.; and Cannon, William A., to United States of America, Army, mesne. Difluorobrominium tetrafluoroborate. 3,645,702, 2-29-72, Cl. 23-367.
- Toy, Raymond M.: See—
Chang, Richard S.; Cutler, Stanley; La Branche, Harvey W.; Pearlman, Marshall B.; Ryan, John W.; and Toy, Raymond M., 3,647,927.
- Toy, Raymond M.; Parker, John C.; and Prodder, Brian S., to Mattel, Inc. Toy vehicle system featuring pivotable toy vehicle. 3,702,037, 11-7-72, Cl. 46-201.000.
- Toy, William W., 50% to Harmon, Lewis G. Rear view optical system. 3,704,062, 11-28-72, Cl. 350-301.000.
- Toy, Wing Noon: See—
Beuscher, Hugh Jacob; Nelson, Donald Robert; Sisson, William Howard; and Toy, Wing Noon, 3,638,184.
Nussbaum, Eric; Toy, Wing Noon; and Woinsky, Melvin Neil, 3,678,467.
- Toyabe, Yutaka: See—
Takamatsu, Hideaki; Miyata, Akira; and Toyabe, Yutaka, 3,660,052.
- Toyama, Chemical Co., Ltd.: See—
Kodama, Yutaka; Kodama, Tsutomu; Nakabayashi, Masao; and Komatu, Shigekazu, 3,699,188.
Kodama, Yutaka; Takai, Akira; and Inagaki, Tatsumi, 3,704,335.
Saikawa, Isamu; Matubara, Yasumasa; and Hori, Takako, 3,694,436.
- Toyama, Ichiro: See—
Minami, Tohru; Nishio, Mikio; Toyama, Ichiro; Kawano, Shigeyoshi; Imai, Masumi; Takuma, Yutaka; and Kitanosono, Hidehiro, 3,688,555.
- Toyama, Koichi: See—
Ando, Noriyoshi; Okamoto, Atutoshi; Taniguchi, Koichi; Nakano, Yoshiaki; and Toyama, Koichi, 3,652,132.
Okamoto, Atutoshi; Ando, Noriyoshi; Toyama, Koichi; Sumiyoshi, Masaharu; Nakao, Hisaji; and Watanabe, Hisashi, 3,635,531.
Okamoto, Atutoshi; Taniguchi, Koichi; Nakano, Yoshiaki; and Toyama, Koichi, 3,658,389.
- Toyama, Nobuo. Mouthpiece of wind instruments. 3,643,538, 2-22-72, Cl. 84-384.
- Toyda Koki Kabushiki Kaisha: See—
Tomita, Tamaki; and Suzuki, Akira, 3,673,886.
- Toyde, William J. Internal combustion turbine. 3,650,105, 3-21-72, Cl. 60-39.43.
- Toydo Besei Kabushiki Kaisha: See—
Hamanaka, Yasushi; Tajiri, Hiromi; Etoh, Kuniomi; Furukawa, Kaoru; and Masai, Yukito, 3,640,761.
Inamura, Seiichi; Kondo, Yusuke; Akita, Minoru; and Chikanari, Kenichi, 3,640,509.
Nishizawa, Hirofumi; Kitaura, Shigeo; Sumoto, Misao; Komagata, Hideki; and Matsumoto, Hiroshi, 3,690,978.
Ono, Hiroshi; Watanabe, Kotaro; and Suzuki, Hajime, 3,649,594.
Sumoto, Misao; Komagata, Hideki; Matsumoto, Hiroshi; and Furusawa, Hiromobu, 3,701,755.
Terasawa, Nobuo; Yagi, Syuho; Yanaga, Yoichiro; and Kiritani, Toyotaro, 3,636,736.
Uchiyama, Sei; Kaku, Eiichi; Kobayashi, Masahiro; Zoda, Takamichi; and Fujimoto, Shunsaku, 3,657,871.
Umeda, Shinobu; Miyagawa, Yoshiaki; Tanaka, Yutaka; Tanaka, Yukio; and Nakamura, Ryoji, 3,703,818.
- Toydo Besei Kabushiki Kaisha (Toy Shinning Co., Ltd.): See—
Munakata, Hideaki; Watanabe, Kazuo; Osako, Akitada; and Urakabe, Rintaro, 3,660,460.
- Toydo Denki Seizo Kabushiki Kaisha: See—
Hirose, Kengo; Ishiwata, Noboru; and Hukawa, Tadaomi, 3,641,394.
Maekawa, Takasumi; Yoshida, Ryoichi; and Nishihara, Minoru, 3,652,839.
- Toydo Electronics Industry Corporation: See—
Taniguchi, Hideo, 3,684,931.
- Toydo Engineering Corporation: See—
Konoki, Keizo; and Ohsaki, Kozo, 3,640,052.
Konoki, Keizo; and Ohsaki, Kozo, 3,684,442.
- Toydo Enterprises KK: See—
Kamiya, Nobuyoshi, 3,662,418.
- Toydo Jozo Co., Ltd.: See—
Kitajima, Masao; Yamaguchi, Tsutomu; Kondo, Asaji; and Murcya, Noriyuki, 3,691,090.
- Toydo Jozo Kabushiki Kaisha: See—
Abe, Jinnosuke; Watanabe, Tetsuo; Miyauchi, Kango; Yamaguchi, Tsutomu; Nito, Toshiharu; and Muroya, Noriyuki, 3,649,455.
Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; and Nishiie, Kazuyoshi, 3,658,792.
Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; Nishiie, Kazuyoshi; Satoh, Sakae; Koide, Tadashi; and Hotta, Yasue, 3,668,200.
- Toydo Kasei Co., Ltd.: See—
Shiratori, Wataru, 3,635,858.
- Toyoko Koatsu Industries, Incorporated: See—
Kimoto, Koji; and Yamagisawa, Yoshinari, 3,694,535.
- Toyoko Kogyo Co., Ltd.: See—
Gomada, Nobuyasu; and Kosaka, Genzo, 3,647,577.
Gomada, Nobuyasu, 3,658,451.
Gomada, Nobuyasu; and Kosaka, Genzo, 3,701,874.
Matsuno, Akira; Sasame, Takao; Shimizu, Ikuzo; Kizu, Humio; and Kagawa, Hiroyuki, 3,660,173.
Mitsuyama, Masaru; and Morita, Shigeru, 3,698,371.
Muroki, Takumi, 3,648,455.
Muroki, Takumi; and Hayashida, Motoyuki, 3,648,672.
Muroki, Takumi, 3,665,711.
Nagamatsu, Hiroaki, 3,633,595.
Nagamatsu, Hiroaki, 3,670,599.
Neishi, Kiyosou, 3,693,608.
Shimada, Hiroshi; Nagai, Mitsuru; Ohfuji, Mitsuo; and Sasaki, Toshiyuki, 3,690,305.
Shimosaki, Tetsuo, 3,631,871.
Tadokoro, Tomoo, 3,653,205.
Tadokoro, Tomoo; Hayashida, Motoyuki; and Yoshimura, Shigetake, 3,657,893.
Tadokoro, Tomoo, 3,703,083.
Tanaka, Seiji, 3,648,544.
Tatsutomi, Yasuo; and Kajihara, Yoshihiro, 3,645,092.
Tatsutomi, Yasuo; and Noma, Tetsuo, 3,675,634.
Tatsutomi, Yasuo, 3,682,151.
Tatsutomi, Yasuo; and Takokoro, Tomoo, 3,685,295.
Tatsutomi, Yasuo, 3,704,591.
Yoshimura, Shigetake, 3,702,385.
- Toydo Mokuzai Kigyo Kabushiki Kaisha: See—
Odagiri, Saburo, 3,652,362.
- Toydo Plywood Co., Ltd.: See—
Hirota, Hatsu, 3,654,044.
Taguchi, Youichi; and Asano, Shinji, 3,640,797.
- Toydo Rayon Company, Ltd.: See—
Okada, Hiroshi; Osakada, Atsushi; Minami, Satoyuki; Aoki, Toshikazu; Hisamori, Tetsuo; Koyanagi, Hironobu; and Otsuka, Hiromi, 3,692,602.
Takahashi, Toshimasa; Takaichi, Moriyuki; Makino, Hiroshi; and Aoki, Toshikazu, 3,658,730.
- Toydo Rayon Kabushiki Kaisha: See—
Mitsukawa, Konosuke; Hattori, Hiroshi; Hikoda, Toyohiko; and Masubuchi, Yoshinori, 3,669,792.
Nakaoka, Kenji; Kato, Tadao; and Matsuhisa, Seikichi, 3,636,095.
- Toydo Rubber Industry Co., Ltd.: See—
Fujita, Kanji; and Sakata, Yoshiaki, 3,639,145.
Komada, Hiroshi; and Nakamura, Kuniyasu, 3,660,548.
Sasaki, Shiro; and Shibata, Narajiro, 3,674,078.
- Toydo Seikan Kabushiki Kaisha: See—
Sato, Yoshikatsu, 3,700,524.
Uekusa, Hideo, 3,665,557.
Ueno, Hiroshi; and Kobayashi, Seiichi, 3,663,354.
- Toydo Soda Manufacturing Co., Ltd.: See—
Kisaki, Hisashi; Mabuchi, Shunsuke; and Mizuno, Toshikatsu, 3,694,465.
Ono, Isao; Fukabori, Kentaro; and Shimomura, Seiichi, 3,671,577.
Otsuki, Susumu; and Miyahara, Isao, 3,666,794.
Sakomura, Toshio; Shimizu, Akihiko; Kino, Takayuki; and Kita, Atsushi, 3,669,944.
Sakomura, Toshio; Shimizu, Akihiko; and Mori, Tadashi, 3,686,261.
Sakomura, Toshio; Yoshida, Toshiro; Fujita, Yoshihiro; and Shinbara, Hideo, 3,696,173.
Wakiyama, Satoshi; and Hori, Kyoichi, 3,689,582.
Yamada, Shizuo; Ono, Isao; Abe, Hiroyuki; Kunihiro, Nobuko; and Tago, Kazuo, 3,686,350.
- Toydo Spinning Co., Ltd.: See—
Watanabe, Kumao; Matumoto, Tooru; and Nakagawa, Tamio, 3,663,974.
- Toyoda, Akinobu: See—
Akiyama, Shinichi; Minami, Shoichiro; and Toyoda, Akinobu, 3,646,127.
Ito, Yoshio; Smiyama, Shinichi; Toyoda, Akinobu; and Minami, Shoichiro, 3,686,294.
- Toyoda, Eiji; Noguchi, Masaaki; and Ito, Osamu, to Nippondenso Kabushiki Kaisha and Toyota Jidosha Kogyo Kabushiki Kaisha. Automatic transmission system having a variable speed changing point. 3,693,479, 9-26-72, Cl. 74-731.000.
- Toyoda Koki Kabushiki Kaisha: See—
Asano, Hiroaki, 3,641,714.
Asano, Hiroaki; Koide, Tsuyoshi; Ohtsu, Ikuo; Hayashi, Shozo; and Kobayashi, Hiroshi, 3,643,383.
Asano, Hiroaki; and Ohtsu, Masao, 3,688,411.
Asano, Kiroaki, 3,653,854.
Fujii, Tsuneji, 3,678,916.
Ito, Teruyuki, 3,698,263.
Kakumu, Ichizo; and Oshima, Susumu, 3,674,003.

- Kanou, Kimio; and Nakamura, Keiichi, 3,681,582.
 Kikuchi, Makoto; and Hayashi, Kuniomi, 3,634,974.
 Kikuchi, Makoto; and Nomura, Kikuziro, 3,656,262.
 Kikuchi, Makoto, 3,662,731.
 Kikuchi, Makoto, 3,683,885.
 Kikuchi, Makoto; and Suzuki, Isao, 3,703,100.
 Kobayashi, Akiyoshi, 3,665,653.
 Kobayashi, Akiyoshi, 3,665,786.
 Kobayashi, Akiyoshi, 3,681,879.
 Koide, Tsuyoshi, 3,663,189.
 Kurimoto, Mikishi; Ochiai, Yoshiki; Muneata, Keniti; and Nomura, Kenji, 3,691,655.
 Kusakabe, Takeshi; and Suzuki, Akira, 3,656,870.
 Ohta, Hiroshi, 3,690,070.
 Oishi, Kenzaburo; and Toyozumi, Osamu, 3,646,711.
 Oishi, Kenzaburo, 3,683,558.
 Okada, Hiroshi, 3,680,876.
 Okada, Takahito, 3,653,286.
 Ota, Hiroshi, 3,667,445.
 Suda, Humio, 3,648,548.
 Suzuki, Akira; and Narumi, Tadataka, 3,662,548.
 Takahashi, Kunio, 3,694,340.
 Tomita, Tamaki; and Suzuki, Akira, 3,632,232.
 Wada, Ryuzi; Nakamura, Keiichi; and Kanou, Kimio, 3,698,138.
 Toyoda Koki Kabushiki Kaisha; t/a Toyoda Machine Works: *See—*
 Koide, Tsuyoshi; and Othui, Ikuro, 3,673,741.
 Wada, Ryuzi; Suzuki, Hiroshi; and Nakato, Masuo, 3,669,514.
 Toyoda Koki Kabushiki Kaisha; t/a Toyoda Machine Works Limited: *See—*
 Suzuki, Akira, 3,657,967.
 Toyoda Machine Works, Limited: *See—*
 Kikuchi, Makoto, 3,678,915.
 Takegawa, Hiroyasu, 3,689,820.
 Toyoda, Masashi; and Tawara, Yoshiyuki, to Nisshin Flour Milling Co., Ltd. Process for the production of vitamin D. 3,661,939, 5-9-72, Cl. 260-397.2.
 Toyoda, Minoru: *See—*
 Kitamura, Takuya; Haruna, Takashi; and Toyoda, Minoru, 3,682,001.
 Toyoda, Yasushi; Kido, Kunizo; and Kashio, Hidetora, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for the preparation of vinylidene chloride-vinyl chloride copolymers. 3,658,778, 4-25-72, Cl. 260-87.7.
 Toyoguchi, Mitsuru; and Iijima, Hiroshi, to Mitsubishi Oil Co., Ltd. Process for production of gilsonite-like butuminous material. 3,661,765, 5-9-72, Cl. 208-6.
 Toyomasu, Ryota: *See—*
 Hanaoka, Takemi; Kakehashi, Toshiro; Toyomasu, Ryota; and Yata, Tomio, 3,704,316.
 Toyomoto, Kazuo: *See—*
 Yamaguchi, Koretaka; Toyomoto, Kazuo; and Sakamoto, Kuniaki, 3,700,755.
 Toyonaga, Ryuya; and Sato, Kazuo, to Nippon Hoso Kyokai. Porous layer of a secondary electron multiplier and a method of manufacturing the same. 3,672,989, 6-27-72, Cl. 117-224.000.
 Toyooka, Morio: *See—*
 Sakamoto, Yuzaburo; and Toyooka, Morio, 3,672,047.
 Toyooka, Tadao; Ueda, Hiromutsu; Nishida, Takeo; and Ono, Atsuo, to Matsushita Electric Industrial Co., Ltd. Electric toaster. 3,641,921, 2-15-72, Cl. 99-390.
 Toyooka, Tadao; Ueda, Hiromutsu; Nishida, Takeo; and Ono, Atsuo, to Matsushita Electric Industrial Co., Ltd. Surface heater for a toaster. 3,694,623, 9-26-72, Cl. 219-200.000.
 Toyoshima, Isao, to Murata Manufacturing Co., Ltd. Method of manufacturing an energy trapped type ceramic filter. 3,650,003, 3-21-72, Cl. 29-25.35.
 Toyota, Eisuke: *See—*
 Tsubouchi, Denji; Ito, Susumu; Toyota, Eisuke; and Wada, Kenji, 3,668,513.
 Toyota Jidosha Hanbai Kabushiki Kaisha: *See—*
 Nasu, Jiro; Ogawa, Tokuo; and Sekine, Yoshio, 3,700,084.
 Ogawa, Tokuo; Sakano, Tatsumi; and Okamura, Shigeyoshi, 3,684,061.
 Toyota Jidosha Kogyo Kabushiki Kaisha: *See—*
 Akamatsu, Toshiaki; and Honda, Shou, 3,633,438.
 Arai, Hiroshi; Nakamura, Akira; Okamoto, Atutoshi; Okumura, Shunji; Suzuki, Motoyoshi; and Sugiura, Akio, 3,690,735.
 Arai, Hiroshi; Nakamura, Akira; Okamoto, Atutoshi; and Okumura, Shunji, 3,701,569.
 Arai, Hiroshi; Nakamura, Akira; Okamoto, Atutoshi; and Okumura, Shunji, 3,702,205.
 Arai, Hiroshi, 3,703,702.
 Arai, Hiroshi; and Mori, Takakazu, 3,707,097.
 Baba, Takashi; and Matsuoka, Chikara, 3,647,249.
 Hanaoka, Masanori, 3,702,122.
 Hasegawa, Kiyoshi, 3,658,388.
 Hasegawa, Tatsuo; and Kobayashi, Ikuya, 3,693,151.
 Hobo, Nobuhito; Natsume, Yoshimi; and Kaga, Sumihiro, 3,685,526.
 Inoue, Masahiko; and Tojyo, Ken, 3,639,951.
 Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, 3,646,835.
 Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, 3,650,161.
 Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, 3,657,934.
 Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, 3,667,325.
 Ito, Shin; and Kubo, Seitoku, 3,678,787.
 Ito, Shin; Kubo, Seitoku; and Mori, Takakazu, 3,701,294.
 Jozumi, Sumio; and Kogaki, Keiji, 3,683,721.
 Kadono, Yoji; Ogasawara, Yukio; and Kamo, Keizo, 3,701,189.
 Kawaguchi, Hiroshi, 3,671,080.
 Kubo, Seitoku; Ohnuma, Kiyoshi; and Hirosawa, Koichiro, 3,646,836.
 Kubo, Seitoku; Mori, Takakazu; Wakamatsu, Hisato; and Kawai, Hisasi, 3,684,066.
 Kusunoki, Kaneyoshi; Asakura, Tatsumi; Nakakawa, Masahiro; Komatsu, Noboru; and Arai, Tooru, 3,680,626.
 Masunaga, Kunihiro; and Shinohara, Hiroshi, 3,686,079.
 Matsui, Toshiiji; Amano, Yasuhiko; Hotta, Yoshitsugu; and Mitabe, Tsutomu, 3,683,784.
 Mori, Takakazu, 3,665,779.
 Noguchi, Masaaki; Sumiyoshi, Masaharu; Sakakibara, Shigeru; Ito, Osamu; and Kato, Takaaki (said Noguchi, said Sumiyoshi and said Sakakibara assors. to), 3,667,322.
 Ochiai, Takeshi, 3,705,748.
 Ohnishi, Toshiiji; Suzuki, Takamitsu; Takahashi, Akio; Yagi, Hiroshi; and Ohya, Shunichi, 3,688,549.
 Ohnuma, Kiyoshi, 3,643,527.
 Ohya, Minoru; and Kogaki, Keiji, 3,651,714.
 Oka, Hiroyuki, 3,664,468.
 Okamoto, Atutoshi; Ando, Noriyoshi; Toyama, Koichi; Sumiyoshi, Masaharu; Nakao, Hisaji; and Watanabe, Hisashi, 3,635,531.
 Omori, Norio, 3,680,532.
 Sarai, Hiroshi, 3,643,690.
 Sato, Kazuo; and Aoki, Takashi, 3,701,151.
 Shiomi, Masanao; and Narumi, Tadataka, 3,705,740.
 Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,640,152.
 Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,653,281.
 Shirai, Takeaki; Sakakibara, Shigeru; Noguchi, Masaaki; and Sumiyoshi, Masaharu, 3,700,079.
 Suda, Toshi; and Kobayashi, Hisanori, 3,680,537.
 Sugimoto, Hiroshi; and Kaneko, Mikio, 3,631,952.
 Sumiyoshi, Masaharu; Sakakibara, Shigeru; Ito, Osamu; and Kato, Takaaki, 3,640,151.
 Sumiyoshi, Masaharu; Ito, Osamu; Wakamatsu, Hisato; Kato, Takaaki; and Kawai, Hisasi, 3,680,410.
 Toshioka, Toru; and Kuroyama, Toshinobu, 3,652,985.
 Toyoda, Eiji; Noguchi, Masaaki; and Ito, Osamu, 3,693,479.
 Uchiyama, Kameo; Sato, Kazuo; and Hisatsune, Tomio, 3,684,309.
 Uozumi, Sumio, 3,641,845.
 Uozumi, Sumio; Sakai, Ichio; and Ohnuma, Kiyoshi, 3,703,110.
 Wakamatsu, Hisato; Kawai, Hisasi; Ito, Shin; and Kubo, Seitoku, 3,675,511.
 Toyota Shatai Kabushiki Kaisha: *See—*
 Hikida, Ryotaro; Awano, Taikichi; Danno, Atsushi; and Kojima, Yoshio, 3,686,917.
 Toyotoki Co., Limited, The: *See—*
 Ueda, Shoken, 3,649,969.
 Toyozumi, Osamu: *See—*
 Oishi, Kenzaburo; and Toyozumi, Osamu, 3,646,711.
 Tozawa, Seiichi: *See—*
 Miyazaki, Kazuhide; and Tozawa, Seiichi, 3,640,683.
 TPI & Company: *See—*
 Schmidlin, Albertus E., 3,696,709.
 T.P.I. Limited: *See—*
 Waddington, Rogor Strange; and Duval, Bruce, 3,693,264.
 Tra, Josef, to Voith, J. M., G.m.b.H. Filter for cleaning suspensions. 3,692,183, 9-19-72, Cl. 210-415.000.
 Trabbic, Gerald W.: *See—*
 Miller, Raoy J.; and Trabbic, Gerald W., 3,684,188.
 Trabbic, Gerald W., to Eaton Corporation. Acceleration control valve. 3,704,588, 12-5-72, Cl. 60-53.00r.
 Traber, Walter: *See—*
 Foittl, Verena R.; and Traber, Walter, 3,642,776.
 Foittl, Verena R.; and Traber, Walter, 3,687,939.
 Foittl, Verena R.; and Traber, Walter, 3,687,940.
 Frick, Wilhelm Ernst; Weiss, Anton G.; Wenger, Thomas; and Traber, Walter, 3,673,209.
 Traber, Walter; and Weiss, Anton G., to Geigy Chemical Corporation. Unsymmetrical diphenyl carbonates. 3,634,484, 1-11-72, Cl. 260-463.
 Traber, Walter; and Weiss, Anton G., to Ciba-Geigy Corporation. Diphenyl thiocarbonates. 3,637,790, 1-25-72, Cl. 260-455.
 Traber, Walter; Margot, Alfred; and Gailay, Jean-Jacques, to Geigy Chemical Corporation. Anthelmintic compositions containing new carbamates and thiocarbamates and method of use. 3,676,561, 7-11-72, Cl. 424-300.000.
 Traber, Walter; and Weiss, Anton G., to Ciba-Geigy Corporation. Unsymmetrical diphenyl carbonates. 3,681,249, 8-1-72, Cl. 252-106.000.

- Traber, Walter; and Weiss, Anton G., to Ciba-Geigy Corporation. Antibacterial unsymmetrical diphenyl carbonates. 3,689,665, 9-5-72, Cl. 424-301.000.
 Trabilcy, William J. System for electrically heating fluid-conveying pipe lines and other structures. 3,706,872, 12-19-72, Cl. 219-300.000.
 Tracey, Victor Allen: *See—*
 Ashcroft, Thomas Brian; Betteridge, Walter; and Tracey, Victor Allen, 3,689,320.
 Trachsler, Fred A. Chain door latch. 3,669,483, 6-13-72, Cl. 292-264.000.
 Trachtenberg, Joseph, to Interdynamics, Inc. Antenna for use with an automobile. 3,634,864, 1-11-72, Cl. 343-713.
 Trachtenberg, William, to Eastman Kodak Company. Process of transferring an electrostatic charge pattern without using external pressure or electrode bias. 3,672,930, 6-27-72, Cl. 117-37.0le.
 Trachtenberg, William, to Eastman Kodak Company. Toner concentration control apparatus. 3,674,353, 7-4-72, Cl. 355-3.000.
 Tracked Hovercraft Limited: *See—*
 Eastham, John Frederick, 3,644,762.
 English, Christopher Durrant, 3,667,398.
 English, Christopher Durrant, 3,680,489.
 Haynes, Richard Humphrey, 3,667,397.
 Nicholson, Brian John, 3,650,469.
 Randell, Richard, 3,703,869.
 Reece, Albert Benjamin John; and Heap, Harry Rodney, 3,631,809.
 Tracor, Inc.: *See—*
 Anthony, Albert M.; and Anthony, Richard J., 3,657,675.
 Cassidy, Patrick E.; and Lowell, Philip S., 3,648,350.
 David, Donald J.; and Zippis, David L., 3,661,533.
 Lester, William W., 3,647,665.
 Tracton, Arthur Allen: *See—*
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 Prussan, Samuel Benjamin; and Tracy, Howard Clyde, Jr., 3,659,755.
 Tracy, John, Clinic: *See—*
 Lowell, Edgar L.; and Lipsky, Aaron H., 3,648,388.
 Tracy, Richard A., 1/3 to Preston, Birgit and to Prother, Charles V. Vehicle anti-theft device. 3,687,216, 8-29-72, Cl. 180-114.000.
 Tracy, Robert A.: *See—*
 Compton, Robert G.; Richmond, Ray S.; and Tracy, Robert A., 3,691,373.
 Tracy, Robert D.; and Derouin, David J. Motor with motion conversion means. 3,703,653, 11-21-72, Cl. 310-24.000.
 Tracy, Wayne R.: *See—*
 Paul, William T.; and Tracy, Wayne R., 3,698,181.
 Tracy, William K., to International Telephone and Telegraph Corporation. Grounding foil for electrical connectors. 3,670,292, 6-13-72, Cl. 339-143.00r.
 Traczyk, Edmond Michael: *See—*
 Walker, Colin Graham; Leadbeater, Edward John; Darlington, Ralph Fredrick; Traczyk, Edmond Michael; and Kubilos, Charles A., 3,665,809.
 Trada, Gianni: *See—*
 Saccardo, Pietro; Trada, Gianni; Galastri, Maurizio; and Herzenberg, Jean, 3,637,637.
 Traedway, Barney R.: *See—*
 Brandt, Harry; and Traedway, Barney R., 3,683,056.
 Traffic & Safety Control Systems, Inc.: *See—*
 Baatz, Wilfried, 3,663,808.
 Traffic Control Materials & Machines Corporation: *See—*
 Mac Phail, Larry S.; Ray, Harold; Smith, Oral P.; and Hall, Lee C., 3,682,054.
 Trafton, John G., III: *See—*
 Juhl, William G.; Robinson, Jacques D.; and Trafton, John G., III, 3,663,637.
 Trageser, Edmund C.: *See—*
 Blanding, John E.; Trageser, Edmund C.; and Harrington, James Vincent, 3,661,204.
 Trageser, Ludwig. Device for the occasional omission of backstitches on automatically controlled quilting and embroidery machines. 3,641,958, 2-15-72, Cl. 112-241.
 Traglia, Patrick J.: *See—*
 Hardin, William W.; and Traglia, Patrick J., 3,646,584.
 Trahms, Harold R. Gang-plow. 3,666,018, 5-30-72, Cl. 172-669.000.
 Trahn, Kenneth A.: *See—*
 Devere, Frank T.; Kurtz, John A.; Rendon, Daniel; Trahn, Kenneth A.; and Tuttle, James W., 3,699,917.
 Trainer, Richard P., to Shell Oil Company. Spent shale retort with sonic oscillator clinker cutter. 3,640,849, 2-8-72, Cl. 196-124.
 Trak Microwave Corporation: *See—*
 Gregory, Benjamin F., 3,701,161.
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 Ohm, Edward Allen; Ring, Douglas Harned; and Trambarulo, Ralph Francis, 3,666,350.
 Trambarulo, Ralph Francis, to Bell Telephone Laboratories, Incorporated. Electro-optic quadrupole deflector. 3,702,722, 11-14-72, Cl. 350-150.000.
 Traxem S.A.: *See—*
 Tillie, Jean-Claude, 3,678,640.
 Tramier, Bernard: *See—*
 Bonzom, Albert; and Tramier, Bernard, 3,676,442.
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 Griffin, Thomas S.; Rodgers, Warren; and Trampier, Charles R., Jr., 3,681,101.
 Tramosch, Herbert, to Pitney-Bowes, Inc. Credit card and method of luminescent printing. 3,679,448, 7-25-72, Cl. 117-1.000.
 Tramuta, Salvatore S.: *See—*
 Hubble, William Schenck; Woods, Kenneth K.; and Tramuta, Salvatore S., 3,667,430.
 Trancik, Ronald J.; Moore, George G.; and Harrington, Joseph Kenneth, to Riker Laboratories, Inc. Substituted haloalkanesulfonamides. 3,689,523, 9-5-72, Cl. 260-470.000.
 Trane Company, The: *See—*
 Duncan, Franklin D.; and Butt, Alan G., 3,633,661.
 Falk, George L.; and Jones, Daniel F., 3,646,773.
 Hire, Charles John, 3,683,654.
 Jones, Daniel F.; Petranek, David J.; and Rosin, Harlan J., 3,653,223.
 Klug, William A.; Habiger, Andrew A.; and Bahl, Leonard J., 3,648,502.
 Lewis, Carl M., 3,683,656.
 Mather, John C., 3,665,727.
 Mc Nabney, John C., 3,690,548.
 McNabney, John C., 3,687,364.
 Miner, Robert G., 3,633,376.
 Pierce, Larry J., 3,678,993.
 Schauls, James J., 3,669,186.
 Webb, Ralph L., 3,696,861.
 Welch, Donald C., 3,703,815.
 Trane Company, The, mesne: *See—*
 Benedict, Frank R., 3,661,007.
 Trane Temper Corporation: *See—*
 Leslie, Gurdon, 3,661,388.
 Tranfield, George, to House, Chas. W., & Sons, Incorporated. Pile fabric method and product. 3,684,284, 8-15-72, Cl. 273-61.00r.
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 Tranly Walls and Mini Courts (Proprietary) Limited: *See—*
 Mc Dougall, Julia P., 3,697,068.
 Tranoco, Inc.: *See—*
 Travis, Charles F., 3,698,445.
 Trans Container Corporation: *See—*
 Chalfant, George A., 3,707,591.
 Trans Horizons, Inc.: *See—*
 Wolf, Jesse D., 3,635,140.
 Trans-Atlas A.G.: *See—*
 Roos, Dirk Godfried Johannes, 3,702,168.
 Trans-Horizons, Inc.: *See—*
 Wolf, Jesse David, 3,640,199.
 Trans-Sonics, Inc.: *See—*
 Westcott, Vernon C., 3,676,765.
 Westcott, Vernon C.; Blanchard, Byron E.; Davis, Paul A.; and Prevot Stephane, 3,678,742.
 Trans-Wheel, Inc.: *See—*
 Anderson, Arthur F., 3,682,047.
 Trans-World Display Corporation: *See—*
 Jaquish, John, 3,674,175.
 Transaction Systems, Incorporated: *See—*
 Jensen, Alan K.; and Desilets, Richard L., 3,688,260.
 Transalarm Electronics, Inc.: *See—*
 Cutler, Joel L.; and Glickman, Joel L., 3,641,425.
 Transcience Inc.: *See—*
 Gram, Herbert R., 3,665,475.
 Transco Inc.: *See—*
 Waite, William; and Skuran, Victor, 3,648,734.
 Transco Products, Inc.: *See—*
 Brastow, Edgar R.; and Lee, Tai Y., 3,689,854.
 Transducer Systems, Inc.: *See—*
 Frenkel, Amotz, 3,638,497.

Transdynamics, Inc.: *See—*
Casani, John R.; and Pounder, Edwin, 3,685,478.
Pounder, Edwin; and Casani, John R., 3,685,352.

Transformatoren Union Aktiengesellschaft: *See—*
Muller, Walter, 3,691,492.

Transglas, AG: *See—*
Harcuba, Siegfried, 3,702,047.

Transidyne General Corporation: *See—*
Bicher, Haim I., 3,700,408.
Brown, Verne R., 3,681,734.

Transier, Kent G.: *See—*
Dendy, Joe B.; and Transier, Kent G., 3,654,443.

Transistor AG: *See—*
Weishaar, Erich, 3,644,799.

Transitag Corporation: *See—*
Kaplan, Leon M.; and Kriofsky, Thomas A., 3,689,885.

Transland Aircraft, Inc.: *See—*
Barlow, Conrad R., 3,684,177.
Barlow, Conrad R.; and Fergusson, Alexander H. B., 3,688,952.

Transportation Specialists, Inc.: *See—*
Edelstein, Harold P.; and Smith, Roy B., 3,659,675.

Transportation Technology, Inc.: *See—*
Donlon, Richard H., 3,653,458.
Donlon, Richard H., 3,653,485.
Donlon, Richard H., 3,680,488.
Ross, Howard R.; Goodrich, Lloyd D.; and Mc Queen, Norman, 3,696,753.

Sobey, Albert J.; and Donlon, Richard H., 3,675,583.

Transvac Electronics Corporation: *See—*
Mauro, Guy, 3,664,476.

Transwestern Express Company: *See—*
Jossy, Wilfred E., 3,632,137.

Transworld Drilling Company: *See—*
James, Theodore K., 3,637,009.

Tranter Manufacturing, Inc.: *See—*
Kaltz, Kenneth L., 3,650,321.

Trap, Hendrikus Johan Lodewijk, to U.S. Philips Corporation. Glass, 3,663,247, 5-16-72, Cl. 106-53.

Trapasso, Louis E.: *See—*
Juelke, Charles V.; and Trapasso, Louis E., 3,681,281.

Trapasso, Louis E., to Celanese Corporation. Adducts of a polymer of a cyclic ether and a sultone. 3,706,707, 12-19-72, Cl. 260-79.30r.

Traponwerke Dinklage & Co.: *See—*
Boltze, Karl-Heinz; Brendler, Otfried; and Lorenz, Dietrich, 3,694,489.

Trapp, Arthur Hubert, to Imperial Metal Industries (Kynoch) Limited. Ignition device for rocket motors. 3,688,700, 9-5-72, Cl. 102-49.700.

Trapp, Gunther: *See—*
Friedrich, Herbert; and Trapp, Gunther, 3,679,674.

Trapp, Horst Otto Adolf: *See—*
Menz, Hans-Udo; Trapp, Horst Otto Adolf; and Wieske, Theophil, 3,663,235.

Trapp, Robert L., to Outboard Marine Corporation. Endless cleated track. 3,680,926, 8-1-72, Cl. 305-35.0eb.

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Jantzen, Leif, 3,686,161.

Trask, James H., to Hercules Incorporated. Process for manufacture of nitrosyl chloride. 3,649,191, 3-14-72, Cl. 23-203.

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Pfluger, Helmut, 3,633,949.

Traub, Henry A., to Shamban, W. S., & Co. Sealing assembly. 3,663,024, 5-16-72, Cl. 277-165.

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Traub, Robert A.: *See—*
Austin, Richard C.; Traub, Robert A.; and Rengert, Joseph S., 3,658,271.

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Traube, Robert J., to FMC Corporation. Conveyor system. 3,640,412, 2-8-72, Cl. 214-152.

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Harnisch, Heinz; Thummler, Ursus; Traulsen, Karl; and Hartlapp, Gerhard, 3,656,898.

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Koppe, Herbert; Kummer, Werner; Stahle, Helmut; Zeile, Karl; and Trauneker, Werner, 3,644,469.
Schromm, Kurt; Mentrup, Anton; Zeile, Karl; Renth, Ernst-Otto; Engelhardt, Albrecht; and Trauneker, Werner, 3,673,187.

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Rocchini, Albert G.; and Trautman, Charles E., 3,640,868.

Trautman, George H., Jr.: *See—*
Munschauer, Frederick E., Jr.; and Trautman, George H., Jr., 3,675,463.
Swenson, Donald G.; and Trautman, George H., Jr., 3,702,558.

Trautman, Jack C.: *See—*
Moss, Valentin G.; and Trautman, Jack C., 3,692,538.

Trautman, Robert D.: *See—*
Lang, John M.; and Trautman, Robert D., 3,698,679.

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Trautner, Kersten: *See—*
Schundehutte, Karl-Heinz; and Trautner, Kersten, 3,687,964.

Trautvetter, Werner: *See—*
Bernhardt, Gunther; Buning, Robert; and Trautvetter, Werner, 3,692,502.
Buning, Robert; Bernhardt, Gunther; Bierwirth, Egon; and Trautvetter, Werner, 3,647,402.

Trautwein, Paul A. Rotary dock. 3,672,178, 6-27-72, Cl. 61-46.000.

Travel Trim & Vent Co.: *See—*
Rapport, Jerry; and Frymire, Garold D., 3,676,954.

Travelere Electric, Inc.: *See—*
Schmidt, Robert L., 3,637,059.

Traver, Darwin G.: *See—*
Herb, Carl C.; and Traver, Darwin G., 3,657,901.

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Travers, Frederick W., to Dennison Manufacturing Company. Conductive base sheet for electrophotographic reproduction sheet. 3,672,982, 6-27-72, Cl. 117-201.000.

Traversi, Maurizio, to Westinghouse Electric Corporation. Change of current or voltage actuated protecting relay. 3,654,516, 4-4-72, Cl. 317-27.

Traverso, John J.: *See—*
Whitehead, Calvert W.; and Traverso, John J., 3,668,248.

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Travis Mills Corporation: *See—*
Bassist, Rudolph G., 3,631,689.
Bassist, Rudolph G., 3,667,255.
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Bassist, Rudolph G., 3,681,942.

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Golden, Henry; and Genca, Samuel R., 3,707,242.

Traylor, Charles O., to Hutchens and Son Metal Products, Inc. Tandem axle suspension. 3,645,555, 2-29-72, Cl. 280-104.5.

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Morris, Peter Duncan; and Trayner, Brian T., 3,688,638.

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Weichet, Jaroslav; Blaha, Ludvik; Hodorova, Jarmila; Dlabac, Antonin; and Trcka, Vaclav, 3,637,759.

Treace, Harry T., to Richards Manufacturing Company. Medical head support. 3,694,831, 10-3-72, Cl. 5-338.000.

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Beidler, William F., 3,670,794.

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Lesk, Norman; and Kleinman, Mitchel, 3,669,029.
Roberts, Edward S., 3,671,194.
Vassilakis, Takis P., 3,631,670.

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Trease, Ralph E.: *See—*
Reither, Thomas D.; and Trease, Ralph E., 3,635,875.

Treat, Carleton H.: *See—*
Mosher, Douglas E.; Treat, Carleton H.; and Drab, Edwin H., 3,704,866.

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Thigpen, Hubert H.; and Trebellas, John C., 3,660,491.

Trebes, Eric W.; and Trebes, Fred W. Mounting and leveling pad. 3,704,848, 12-5-72, Cl. 248-163.000.

Trebes, Fred W.: *See—*
Trebes, Eric W.; and Trebes, Fred W., 3,704,848.

Trebichavsky, Ctibor: *See—*
Augustin, Jan; Trebichavsky, Ctibor; and Zubak, Jan, 3,650,922.

Trebinger, Karl: *See—*
Reinhardt, Helmut; Trebinger, Karl; and Kallrath, Gottfried, 3,707,449.

Trebish, John R.: *See—*
Fedosoff, Joseph P.; and Trebish, John R., 3,682,601.

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Trecker, David J.: *See—*
Arnold, Donald R.; Trecker, David J.; and Stehr, Charles E., 3,644,532.
Borden, George W.; and Trecker, David J., 3,678,073.
Colomb, Henry Octave, Jr.; Trecker, David J.; and Brotherton, Thomas Kemper, 3,658,669.
McKeon, James E.; and Trecker, David J., 3,634,346.
Osborn, Claiborn Lee; and Trecker, David J., 3,650,669.
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Spinner, Georg; and Treczka, Leo, 3,686,589.

Tredinnick, Bruce Charles: *See—*
Fessler, Robert Glenn; and Tredinnick, Bruce Charles, 3,635,970.

Tredway, Wynn B. Golf swing training glove including light projecting device. 3,707,291, 12-26-72, Cl. 273-183.50b.

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Koch, Robert L., II; and Tredwell, Gilman, 3,640,814.
Pate, Robert F.; Tredwell, Gilman; and Mitchell, William S., 3,661,095.

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Reader, Malcolm; Tregay, John L.; and Stern, Charles, 3,647,955.

Tregear, Geoffrey W.: *See—*
Sarfaty, Gordon A.; and Tregear, Geoffrey W., 3,639,516.

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Correard, Daniel; Friess, Emmanuel; Salvi, Antoine; and Tregoures, Roger, 3,681,689.

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Grass, George M., Jr.; Parish, Roger C.; and Trei, John E., 3,660,562.
Parish, Roger C.; and Trei, John E., 3,639,621.
Parish, Roger C.; and Trei, John E., 3,663,710.

Treiber, E. Louise: *See—*
Pabich, Richard W.; and Treiber, Richard W., 3,693,220.

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Pabich, Richard W.; and Treiber, Richard W., 3,693,220.

Treiber, Robert L., to Alcar Chemical Company, Inc. Method and composition for sealing anodized aluminum surfaces. 3,647,649, 3-7-72, Cl. 204-35.

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Bouchard, Jean; Frison, Roger; and Treille, Pierre, 3,655,587.

Treis Industries Limited: *See—*
Totten, Thomas Bernard; and Gordon, Robert Wilmer, 3,686,496.

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Musyt, William; and Tremelin, James D., 3,703,201.
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Dalton, William O.; and Trementozzi, Quirino A., 3,652,721.
Lee, Yoon Chai; and Trementozzi, Quirino A., 3,644,577.

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Claus, Richard J.; Tremmel, Robert; and Becking, Donald H., 3,703,448.
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Davis, Leo W.; Lackey, Marion D.; Ross, John Reuben; and Trenary, Bryant, 3,704,040.
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Jagers, Leopold, 3,695,135.
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Arav, Ronnie A.; and Trentini, Gianpiero, 3,686,386.
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Fleuret, Louis; and Trepaez, Jean, 3,677,852.
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Faith, Herman Eldridge; and Trepanier, Donald L., 3,642,789.
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Strah, Frank L.; and Trepannier, Edward J., 3,643,695.
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Forschirm, Alex S.; and Trepasso, Louis E., 3,668,000.
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Davey, Ronald E.; Tomlinson, Charles N.; and White, Alan, 3,669,826.
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Kulikov, Ivan Vladimirovich; Borisov, Vasily Semenovich; and Treschev, Viktor Georgievich, 3,678,999.
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Kulikov, Ivan Vladimirovich; Borisov, Vasily Semenovich; and Treschev, Viktor Georgievich, 3,678,999.
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Kulikov, Ivan Vladimirovich; Borisov, Vasily Semenovich; and Treschev, Viktor Georgievich, 3,678,999.
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Wheeler, Mervil C., 3,687,789.
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Malina, Jay T.; and Tress, Mitchell, 3,638,220.
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Beyers, Billy Wesley; and Tretter, Larry Lee Roy, 3,699,529.
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Smaller, Philip; and Treves, David, 3,701,133.
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Teagno, Wladimiro; and Trevisiol, Franco, 3,680,035.
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Snyder, Harold I.; and Trexler, Richard R., 3,674,021.
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Wieland, Roman G.; Weber, A. John; Bearfield, Clair A.; and Cole, Raymond, 3,640,520.
Wieland, Roman G., 3,697,066.
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Cox, Frederick L.; and Krumreich, Jack E., 3,671,711.
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Stoliker, Joseph F., 3,682,266.
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Hoglund, Nils O., 3,663,188.
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Hoglund, Nils, 3,669,558.
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Brooks, Sheldon C., 3,642,144.
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Murray, William Kirby, 3,684,009.
- Tri-State Veneer & Plywood Co.: *See*—
Kuhns, Frederick S., 3,695,966.
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Haydon, Arthur W., 3,643,420.
Haydon, Arthur W., 3,685,278.
Haydon, Arthur W., 3,690,059.
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Haydon, Arthur W.; and Crossley, Harry E., 3,665,348.
Haydon, Arthur W., 3,679,988.
Hoffmann, Gottfried O., 3,671,841.
- Triangle Environmental Corporation: *See*—
Kiefer, Michael Edward, 3,704,984.
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Homan, Oris T., 3,634,145.
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Vilen, Erik O., 3,631,653.
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Glenn, James J. Jr., 3,650,148.
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Schimschek, Erhard J.; and Trias, John A., 3,699,211.
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Calzaferrri, Hans; Kunz, Werner; Schwemmer, Martin W.; and Wyler, Max, 3,647,353.
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Atwater, Wayne G., 3,661,280.
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Atwater, Wayne G., 3,685,665.
Lemelson, Jerome H., 3,674,159.
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- Howell, Eddie P.; Youngman, Carl A.; Hardison, Jack E.; and Tribble, Robert E., 3,668,927.
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Ballestra, Mario; and Triberti, Domenico, 3,639,286.
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Hein, Allyn J.; and Tribley, Gilbert, 3,707,113.
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Tricault, Yves P.; and Tricault, Gerard J., 3,678,248.
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Koerner, Ernest C.; Trice, Robert T.; and Wareham, William W., 3,699,082.
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Fischer, Edward; and Trickey, William J., 3,684,179.
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D'Alba, Anthony R., 3,645,168.
Deibel, Raymond A.; and Riester, William C., 3,644,957.
Riester, William C.; and Kuebler, William F., 3,648,730.
Scinta, Anthony C., 3,660,862.
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Smithers, Philip G. K.; and Mower, Peter, 3,634,902.
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Cosenza, Frank J., 3,702,628.
Heyworth, Ernest, 3,678,981.
Parris, Peter P., 3,696,759.
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Ames, Ward A., 3,688,533.
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Bardwell, Allen E., 3,637,030.
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Yeffal-Rueda, Manuel, 3,705,473.
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Arens, Egidius; Muller-Lindemann, Dieter; and Triebold, Karl-Friedrich, 3,705,334.
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Larsen, Jack H.; Trier, Louis J.; and Rytina, Anton W., 3,634,954.
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Heil, Eduard; Trieschmann, Hans-Georg; Willersinn, Herbert; Bolte, Herbert; and Bronstert, Klaus, 3,676,378.
Wisseroth, Karl; Trieschmann, Hans-Georg; Dodel, Peter; Hoehr, Lothar; Herbeck, Rudolf; and Scholl, Richard, 3,687,917.
Zeitler, Gerhard; and Trieschmann, Hans-Georg, 3,663,392.
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Gaeth, Rudolf; Pfannmueller, Helmut; Stastny, Fritz; Trieschmann, Hans-Georg; Tatzel, Hermann; and Zizlsperger, Johann, 3,632,532.
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Buehler, Allan M., 3,658,114.
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Tiffin, James R.; and Trimble, David C., 3,697,126.
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Schenach, Thomas A.; and Trimble, David L., 3,642,907.
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Miller, Richard H., 3,680,545.
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Skrabek, Emanuel Andrew; and Trimmer, Donald Smith, 3,695,867.
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Zompa, Thomas A., 3,655,485.
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Vinsani, Mario; and Trinca, Celio, 3,662,369.
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Evans, James P., 3,650,543.
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Kehl, Lawrence Joseph; Triner, Irvin Richard; and Janis, Robert Gerald, 3,683,150.
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Weisfeld, Joseph; Tringali, Alfred M.; Ackerman, Joseph F.; and Bernardo, Joseph J., 3,650,997.
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Pillon, Daniel; and Trinh, Van Quy, 3,701,776.
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Berry, Van H., Jr., 3,702,661.
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Mackey, Charles L., 3,647,238.
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 Triolo, Peter T.; and Schutte, Harlan H., to Scovill Manufacturing Company. Die assembly. 3,672,806, 6-27-72, Cl. 425-406.000.
 Trioteam A/S: See—
 Kjellberg, Finn Andre; Lemvig, Svend E. N.; and Kjellberg, Bent I., 3,656,191.
 Kjellberg, Finn Andre; Lemvig, Svend E. N.; and Kjellberg, Bent I., 3,665,528.
 Trip-Lite Limited: See—
 Cooke, Albert Edward, 3,661,024.
 Cooke, Albert Edward, 3,675,446.
 Tripet, Jean, to Gruen Industries, Inc. Calendar day and date watch. 3,695,029, 10-3-72, Cl. 58-58.000.
 Triple "A" Accessories: See—
 Penfold, Addison E., Jr., 3,670,844.
 Triple E Corporation: See—
 Silver, Robert L.; and Schmidt, Adrian J., 3,669,298.
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 Fox, Wayne F., 3,695,891.
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 Trippier, Richard E.: See—
 Contrael, Ralph G.; Stahlhut, Leo G.; and Trippier, Richard E., 3,661,613.
 Trippet, Raymond: See—
 Flournoy, Norman E.; Dancy, Julian H.; and Trippet, Raymond, 3,656,692.
 Flournoy, Norman E.; Morrison, John A.; Dancy, Julian H.; and Trippet, Raymond, 3,664,804.
 Flournoy, Norman E.; Dancy, Julian H.; and Trippet, Raymond, 3,694,136.
 Triquet, Christian Jean: See—
 Hintermann, Hans Erich; and Triquet, Christian Jean, 3,661,571.
 Trish Energies, Inc.: See—
 Yarlott, John M., 3,645,173.
 Trist Mouldings & Seals Limited: See—
 Millar, Thomas Ritchie, 3,705,728.
 Tristram, Edward W.: See—
 Tull, Roger J.; Tristram, Edward W.; and Rosegay, Avery, 3,637,812.
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 Trittipoe, Jack H.: See—
 Olthoff, James A.; Smith, Roger M.; and Trittipoe, Jack H., 3,680,892.
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 Arneith, Reinhold; Trittler, Hans; and Emig, Jurgen, 3,666,458.
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 Painaud, Jean, 3,704,647.
 Triumph Werke: See—
 Link, Manfred, 3,677,384.
 Triumph Werke Nurnberg AG: See—
 Decker, Herbert; and Waldenburger, Hermann, 3,674,126.
 Hengelhaupt, Hans-Georg; and Teichmann, Friedrich, 3,702,652.
 Waldenburger, Hermann; and Decker, Herbert, 3,647,040.
 Triumph Werke Nurnberg Aktiengesellschaft: See—
 Scheinplugg, Gunter, 3,648,818.
 Trivedi, Pankajkumar Mahasukhrai, to Michigan Chemical Corporation. Production of stabilized aluminum bromide solutions. 3,666,686, 5-30-72, Cl. 252-429.
 Trivero, Mario. Track vehicle suitable to be used on sloping lands, the trimming movements of which are controlled by an oleodynamic device. 3,658,146, 4-25-72, Cl. 180-9.52.
 Trivette, Chester D., Jr.: See—
 Coran, Aubert Y.; Kerwood, Joseph E.; and Trivette, Chester D., Jr., 3,681,356.
 Trivette, Chester D., Jr., to Monsanto Company. Thiophen-ylenediamines. 3,637,844, 1-25-72, Cl. 260-551.
 Trneny, Jaromir: See—
 Mysik, Stanislav; and Trneny, Jaromir, 3,647,723.
 Trocciola, John C., to United Aircraft Corporation. Fuel saturator for low temperature fuel cells. 3,677,823, 7-18-72, Cl. 136-86.00c.
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 Trochanowski, Andrew J.; and Wicks, Steven A., to United States of America, Navy. Automatic radar detection device. 3,671,964, 6-20-72, Cl. 343-18.00e.
 Trocki, Thomas: See—
 Mefford, Carl R.; Lass, James L.; Smith, Bart A.; Venier, Dominic A.; and Trocki, Thomas, 3,697,376.
 Trocor, Inc.: See—
 Baltzer, Otto J., 3,694,754.
 Troeger, Gottfried; Mueller, Gerhart Hermann; Bachmann, Gerhard; Spoor, Herbert; and Batzill, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Coating materials for the production of electrodepositable coatings. 3,697,461, 10-10-72, Cl. 260-9.00u.
 Troeger, Henry, to Bendix Corporation. The Self-energizing torque limiting disc clutch. 3,677,378, 7-18-72, Cl. 192-54.00r.
 Troeger, Walter Alvin: See—
 Luedeman, Robert T.; and Troeger, Walter Alvin, 3,690,955.
 Troemel, Gerhard: See—
 Ziemann, Heinz; Lehmann, Wolfgang; and Troemel, Gerhard, 3,640,840.
 Trofimenko, Swiatoslaw, to Du Pont de Nemours, E. I., and Company. Symmetrical and unsymmetrical pyrazaboles. 3,681,381, 8-1-72, Cl. 260-310.000.
 Trofimov, Mikhail Georgievich: See—
 Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pyanov, Valentin Nikiforovich; Golovkin, Jury Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.
 Trofimov, Valery Leonidovich: See—
 Amosov, Pavel Evgenievich; Imanitov, Leonid Mikhailovich; Smekhov, Vitaly Konstantinovich; and Trofimov, Valery Leonidovich, 3,666,384.
 Amosov, Pavel Evgenievich; Smekhov, Vitaly Konstantinovich; Trofimov, Valery Leonidovich; Shvarts, Aveli Isaich; Shnepp, Vladimir Borisovich; and Razumovsky, Alexandr Petrovich, 3,692,441.
 Trofimow, Alex. Vinylidene chloride copolymer latex coating composition. 3,696,067, 10-3-72, Cl. 260-28.50d.
 Troger, Jurgen: See—
 Schreyer, Gerd; Troger, Jurgen; Weigert, Wolfgang; and Weiberg, Otto, 3,707,444.
 Troiano, Emilio A. Trotline guide. 3,664,637, 5-23-72, Cl. 254-190.
 Troiano, Paul F.: See—
 Menashi, Jameel; and Troiano, Paul F., 3,647,685.
 Troisoeufs, Pierre, to Ronson Corporation. Attachment for storing floats. 3,674,412, 7-4-72, Cl. 431-124.000.
 Troitino, Manuel Lopez. Aircraft with separable cockpit. 3,703,265, 11-21-72, Cl. 244-13.000.
 Trojani, Benito Luigi. Pipped pipes and manufacturing method for said pipped pipes. 3,705,972, 12-12-72, Cl. 219-107.000.
 Trok, Benjamin, to International Standard Electric Corporation. Electronic converter. 3,665,290, 5-23-72, Cl. 321-47.000.
 Troll, John; and Baker, Cole, to Iris Corporation, mesne. Apparatus for detecting the size and form of filamentary material by measuring diffracted light. 3,659,950, 5-2-72, Cl. 356-199.
 Troll, John H.: See—
 Geis, James D.; Troll, John H.; Gluz, Harry; and Baker, Cole H., 3,678,729.
 Trolle, Sten: See—
 Jonsson, Finn Lennart; Trolle, Sten; and von Platen, Baltzar Carl, 3,674,403.
 Von Platen, Baltzar Carl; Jonsson, Finn Lennart; and Trolle, Sten, 3,687,066.
 Trolley, John Henry, to Coal Industry (Patents) Limited. Apparatus for plowing loose particulate material. 3,703,315, 11-21-72, Cl. 299-34.000.
 Trollmann, Conrad: See—
 Dushkes, Sherman Z.; and Trollmann, Conrad, 3,653,572.
 Trombetta, John J.: See—
 Hardwick, Peter D.; and Trombetta, John J., 3,670,433.
 Tromblee, Gene L.: See—
 Green, Robert B.; Newsom, Raymond A.; and Tromblee, Gene L., 3,689,215.
 Trommet, Alfred: See—
 Kunste, Gerhard; Spes, Hellmuth; and Trommet, Alfred, 3,637,840.

- Tromp, Gerardus M. Closet seat. 3,693,198, 9-26-72, Cl. 4-246.000.
 Tronac, Incorporated: See—
 Watts, Paul J., 3,680,630.
 Trondle, Alois. Compressed air operated apparatus for raising underwater deposits. 3,673,716, 7-4-72, Cl. 37-61.000.
 Trongeau, William J., to Miner Enterprises, Inc. Combination silastic and friction shock absorber. 3,690,423, 9-12-72, Cl. 188-271.000.
 Tronic Products, Inc.: See—
 Leviton, Leo, 3,683,855.
 Tronnier, Albrecht; Eggert, Joachim; and Uberhagen, Fritz, to Voigtlander, A.G. Expanded triplet objective having at least four elements. 3,642,351, 2-15-72, Cl. 350-215.
 Tronser, Alfred. Process of manufacturing a trimmer capacitor. 3,675,288, 7-11-72, Cl. 29-25.410.
 Tronville, Pier Giorgio, to Deutsche Fiat Aktiengesellschaft. Actuating mechanism for a door of a vehicle, in particular a taxi. 3,652,124, 3-28-72, Cl. 296-146.
 Tronzo, Raymond G. Hip prosthesis. 3,685,058, 8-22-72, Cl. 3-1.000.
 Troope, Walter S.: See—
 Skaathun, Olav; and Troope, Walter S., 3,664,158.
 Troost, Seyer: See—
 Kerkhoven, Frederik Johan; and Troost, Seyer, 3,639,288.
 Tropea, Alfred: See—
 Blackwell, John; and Tropea, Alfred, 3,678,028.
 Tropello, Sam Duane: See—
 Jacisin, Joseph Michael; and Tropello, Sam Duane, 3,697,089.
 Troponwerke Dinklage & Co.: See—
 Boltze, Karl-Heinz; and Lorenz, Dietrich, 3,652,567.
 Boltze, Karl-Heinz; and Lorenz, Dietrich, 3,669,967.
 Boltze, Karl-Heinz; Brendler, Otfried; and Lorenz, Dietrich, 3,692,818.
 Lorenz, Dietrich, 3,662,073.
 Troscinski, Edwin S.: See—
 Gilson, Ian T.; Troscinski, Edwin S.; Curtis, Thomas C.; and Watson, Robert G., 3,687,610.
 Troscinski, Edwin S.; and Robertson, Reed S., to Nalco Chemical Company. Corrosion inhibition with a tannin, cyanohydrated lignosulfonate and an inorganic metal salt composition. 3,639,263, 2-1-72, Cl. 252-389.
 Trosdorff, Willi: See—
 Saro, Karl; and Trosdorff, Willi, 3,662,655.
 Trosko, Ussyaslav Iosifovich: See—
 Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Iosifovich; Zhabin, Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhikhin, Vadimir Petrovich; Rubnikovich, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Ussyaslav Iosifovich; Sharipova, Raviya Davlyatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorievich, 3,654,325.
 Trost, Allen J., to Ampex Corporation. Automatic tracking method and apparatus for rotary scan tape transport. 3,663,763, 5-16-72, Cl. 179-100.2.
 Trost, Allen J.; and Oldershaw, Reginald W., to Ampex Corporation. Automatic tracking circuit for transverse scan magnetic tape transport. 3,663,764, 5-16-72, Cl. 179-100.2.
 Trost, Joseph C.; Bock, Robert V.; Gerbstadt, Frederick H.; Graham, William J.; Miles, Wilson D.; and Questa, Charles R., to Burroughs Corporation. Autonomous multiple-path input/output control. 3,675,209, 7-4-72, Cl. 340-172.500.
 Troster, A. J.: See—
 Weitz, Otto, 3,693,833.
 Troster, John G.: See—
 Johnston, Norris; and Latker, Mark, 3,667,601.
 Trostler, Richard M. Pool cover arrangement. 3,707,007, 12-26-72, Cl. 4-172.140.
 Troth, Dennis L.: See—
 Sherman, Warren S.; Troth, Dennis L.; and Bennett, William A., 3,645,755.
 Trott, Arthur F.: See—
 Oldfield, Andrew H.; and Trott, Arthur F., 3,670,460.
 Trott, John James; and Grainger, James William, to National Research Development Corporation. Capacitors. 3,678,378, 7-18-72, Cl. 324-61.00r.
 Trott, Raymond H. Fracture reducing appliance for the arm. 3,693,617, 9-26-72, Cl. 128-84.00b.
 Trott, Winfield James. Hydrophone calibrator. 3,659,255, 4-25-72, Cl. 340-5.
 Trott, Winfield James. Pulse-sound transmitting tube for calibrating underwater sound transducers. 3,665,379, 5-23-72, Cl. 340-5.00c.
 Trotta, Frank A. Safety container. 3,698,543, 10-17-72, Cl. 206-42.000.
 Trotta, Patrick A., to Bausch & Lomb Incorporated. Projection lens of high numerical aperture. 3,656,839, 4-18-72, Cl. 350-214.
 Trotter, Edward E.: See—
 Speidel, Thomas O. P.; Trotter, Edward E.; and Shefsiek, Paul K., 3,663,798.
 Trotter, Frederick J., Jr., to Celanese Corporation. Solids feeder apparatus. 3,702,128, 11-7-72, Cl. 198-64.000.
 Trotter, John Edmund: See—
 Hamblyn, Stephen Mark Lesley; Money, Anthony Patrick; Mackinnon, Ian Malcolm; and Trotter, John Edmund, 3,706,652.
 Trotter, Marvin N., to Stevens, J. P., & Co., Inc. Electro-bunch attachment. 3,669,366, 6-13-72, Cl. 242-26.410.
 Trotter, Marvin Nathaniel: See—
 Brisse, Charles David; and Trotter, Marvin Nathaniel, 3,678,672.
 Trotter, Gerard M.: See—
 Payne, Winslow C.; and Trotter, Gerard M., 3,678,631.
 Trottochau, Lawrence D.: See—
 Peppin, Richard A.; and Trottochau, Lawrence D., 3,698,324.
 Trotz, Samuel I.; Hurley, Thomas J., Jr.; and Kober, Ehrenfried H., to Olin Mathieson Chemical Corporation. Process for preparing aromatic isocyanates from aromatic azo and/or aromatic azoxy compounds. 3,660,458, 5-2-72, Cl. 260-453.
 Troubac, Gerard: See—
 Benmussa, Henri; Bui, Ngoc-Sanh; and Troubac, Gerard, 3,639,682.
 Benmussa, Henri; Bui, Ngoc-Sanh; and Troubac, Gerard, 3,662,095.
 Troue, Harden Henry, to Union Carbide Corporation. Method and apparatus for extending the useful life on an arc radiation source. 3,651,358, 3-21-72, Cl. 313-12.
 Trouillet, Maurice Marie Achille, to Calor. Apparatus for welding thin-sheet plastics materials. 3,671,357, 6-20-72, Cl. 156-359.000.
 Trout, Donald M. Adjustable resilient sash guide structure. 3,681,875, 8-8-72, Cl. 49-418.000.
 Trout, Kenneth G.: See—
 Medica, Joseph J.; Trout, Kenneth G.; and Kyminas, Stanley C., 3,655,594.
 Troutman, Paul H., to Industrial Nucleonics Corporation. Total conditioned weight computer. 3,636,327, 1-18-72, Cl. 235-151.33.
 Troutman, Paul Henry: See—
 Shah, Franklin Bong-See; and Troutman, Paul Henry, 3,668,401.
 Troutner, Arthur L. Heavy duty pitched truss and ridge connector therefor. 3,646,725, 3-7-72, Cl. 52-641.
 Trovati, Louis, to Dodelino S.A. Method for the manufacture of inflated articles. 3,664,401, 5-23-72, Cl. 156-145.000.
 Trowbridge, James L. Foldable boats. 3,639,933, 2-8-72, Cl. 9-2.
 Trower, William E., to Ford Motor Company. Spark advance/retard control servo for an internal combustion engine. 3,656,410, 4-18-72, Cl. 92-48.
 Trown, Patrick Willoughby: See—
 Miller, Philip Andrew; and Trown, Patrick Willoughby, 3,701,774.
 Troxel, Lillian H.; and Johnston, Howard, to Dow Chemical Company, The. Bis(trifluoro methyl)-2-pyridinols. 3,682,938, 8-8-72, Cl. 260-297.00r.
 Troxel Manufacturing Company: See—
 Rich, Maurice E., Jr., 3,643,995.
 Worley, George W., 3,640,548.
 Worley, George W., 3,682,509.
 Worley, George W., 3,698,763.
 Troxell, Frank Vollmer: See—
 Bressler, Robert Lee; Alexiev, Iwan Rangelov; Troxell, Frank Vollmer; and Richards, George Gilman, 3,657,595.
 Troxell, Harold M. Flight control system. 3,696,550, 10-10-72, Cl. 46-77.000.
 Troxler, Eduard: See—
 Rosenberger, Siegfried; Troxler, Eduard; and Hausermann, Heinrich, 3,639,419.
 Troxler, Eduard; and Hausermann, Heinrich, to Geigy Chemical Corporation. Detergent composition containing fluorescent 1-pyrazolylphenylsulphonyl-piperazines. 3,674,714, 7-4-72, Cl. 252-543.000.
 Troxler, Franz: See—
 Bormann, Gerhard; and Troxler, Franz, 3,657,245.
 Bormann, Gerhard; Gmunder, John; Wilkens, Heinrich; and Troxler, Franz, 3,674,801.
 Petrzilka, Theodor; Hofmann, Albert; Schenk, Hansruedi; Troxler, Franz; Frey, Albert; and Ott, Hans, 3,647,801.
 Seemann, Fritz; and Troxler, Franz, 3,699,123.
 Troxler, Franz; and Seemann, Fritz, to Sandoz Ltd. 4-(2-Hydroxy-3-aminopropoxy)-9-fluorenone and the salts thereof. 3,671,587, 6-20-72, Cl. 260-570.700.
 Troxler, Franz; and Seemann, Fritz. 1-(2-Hydroxy-3-amino-propoxy)-9-fluorenone and the salts thereof. 3,692,836, 9-19-72, Cl. 260-570.700.
 Troxler, Franz. 4-(2-Hydroxy-3-aminopropoxy)-indole derivatives. 3,696,120, 10-3-72, Cl. 260-326.14r.
 Troxler, Franz, to Sandoz Ltd. 4-(2-Hydroxy-3-aminopropoxy)-indole derivatives. 3,696,121, 10-3-72, Cl. 260-326.150.
 Troxler, Franz, to Sandoz Ltd. 4-(2-hydroxy)-3-aminopropoxy)-indole derivatives. 3,705,907, 12-12-72, Cl. 260-326.14r.

- Troy, Constantine T. Closed cell structure and methods and apparatus for its manufacture. 3,660,189, 5-2-72, Cl. 156-145.
- Troy, James E.: *See—*
 Mac Isaac, John T., Jr.; and Troy, James E., 3,677,206.
- Troy, James E.; and MacIsaac, John T., Jr., to Fieldcrest Mills, Inc. Apparatus and method for weaving fabric with intricate pile formations. 3,636,988, 1-25-72, Cl. 139-46.
- Troy, John P.: *See—*
 Broeg, Charles; Monti, Anthony; and Troy, John P., 3,639,169.
- Monti, Anthony; Troy, John P.; and Broeg, Charles B., 3,639,168.
- Troy Steel Corporation: *See—*
 Menge, Donald C., 3,680,609.
- Troyer, Milo C. Fishing lure. 3,650,062, 3-21-72, Cl. 43-42.06.
- Troyer, Richard Lloyd, to Johns-Manville Corporation. Means for producing fibrous products having integrate tongue and groove edges. 3,661,491, 5-9-72, Cl. 18-4.
- Troyer, William J., to Simpson Industries, Inc. Series type vibration damper. 3,670,593, 6-20-72, Cl. 74-574.000.
- Tru-Line, Inc.: *See—*
 Truxillo, Ruffin G., 3,689,968.
- Tru-Lok Metal Fabricating Company, Inc.: *See—*
 Massagli, Danie; and Massagli, Marino Ralph, 3,643,306.
- Truax, Harry: *See—*
 Skelton, Robert F.; and Truax, Harry, 3,680,472.
- Trub, Jean: *See—*
 Kneller, Klaus; Poncet-Montange, Daniel; Prost, Jean-Louis; and Trub, Jean, 3,704,972.
- Trubetskoy, Kirill Mikhailovich: *See—*
 Chaikin, Boris Semenovitch; Kozlov, Lev Ivanovich; Oblasti, Khimki Moskovskoi; Malchenko, Thomas Vasilievich; Mokrushin, Konstantin Dmitrievich; Yarovsky, Lev Volfovich; Maryanchik, Grigory Efimovich; Zhelnov, Boris Stepanovich; Tarasov, Vasily Mikhailovich Trubetskoy, Kirill Mikhailovich; Borshevsky, Igor Konstantinovich; and Chermensky, Dmitry Pavlovich, 3,697,058.
- Trubiano, Paolo C.: *See—*
 Marotta, Nicholas G.; Bell, Harvey; and Trubiano, Paolo C., 3,650,770.
- Trubisky, Leonard G.: *See—*
 Kindell, Jerry L.; and Trubisky, Leonard G., 3,699,326.
- Trubisky, Michael P.: *See—*
 Teuscher, Leon A.; Trubisky, Michael P.; Palermi, Frank M.; and Levine, Charles J., 3,697,265.
- Trubisky, Michael P.; Teuscher, Leon A.; Palermi, Frank M.; and Levine, Charles J., to Xerox Corporation. Method of making a photoconductive composition and device. 3,634,134, 1-11-72, Cl. 117-201.
- Truce, William E.; and Horvath, Elizabeth G., to Phillips Petroleum Company. Sulfur-containing polyamide dye reception promoters. 3,637,601, 1-25-72, Cl. 260-78.
- Truck Equipment Corporation: *See—*
 Linville, Roy Norman, 3,672,520.
- Truck-Lite Company, Inc.: *See—*
 Spiteri, Joseph, 3,654,512.
- Trudeau, Aime. Gravity-actuated self-propelling wheel construction. 3,633,979, 1-11-72, Cl. 305-7.
- Trudeau, Francis E., to Portec, Inc. Drag chain. 3,665,704, 5-30-72, Cl. 59-85.
- Trudel, John L. Cribbage boards and like peg-board devices. 3,695,512, 10-3-72, Cl. 235-90.000.
- True, Howard D. F., Jr.: *See—*
 Dodge, Gerald Floyd, III; and True, Howard D. F., Jr., 3,670,521.
- Gelbard, Robert B.; Dodge, Gerald F., III; and True, Howard D. F., Jr., 3,678,698.
- True, Martin E.; and Kanady, William E., to Esso Production Research Company. Apparatus for running in and operation of valves and the like. 3,633,669, 1-11-72, Cl. 166-72.
- True Temper Corporation: *See—*
 Jackson, Carl Thomas, 3,646,610.
- Jackson, Carl Thomas, 3,676,258.
- Portz, William E.; and Stump, Harry B., 3,697,110.
- Trueb, Werner; and Reisser, Fritz, to Sandoz Ltd.; a/k/a Sandoz AG. Certain s-(N-methylene-pyridone-(2)-0,0-dilower-alkyl mono and dithio phosphates and derivatives. 3,634,435, 1-11-72, Cl. 260-294.8.
- Trueblood, Inc.: *See—*
 Trueblood, Raymond Lee, 3,661,490.
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- Trueflight Mfg. Co., Inc.: *See—*
 Roemer, Benjamin C., 3,645,029.
- Truelove, Edward L. Wrench with fluid draining provision. 3,677,513, 7-18-72, Cl. 251-148.000.
- Truemper, John P.: *See—*
 Ohntrup, Frederick F.; Truemper, John P.; and Smith, Billy C., 3,641,413.
- Truesdale, Wade J.: *See—*
 Campbell, Kenneth C.; Robinson, Donald E.; Rhinehart, R. Russell; and Truesdale, Wade J., 3,707,588.
- Truesdell, Merlyn R.: *See—*
 Merfeld, Michael J.; and Truesdell, Merlyn R., 3,675,851.
- Truesdell, Robert E., 30% to Nienstedt, William H. and 30% to Colman, Benjamin W. Vehicle pre-loaded impact-cushioning device. 3,656,790, 4-18-72, Cl. 293-1.
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 Anderson, Arthur William; and Truett, William Lawrence, 3,679,652.
- Truetzschler & Co.: *See—*
 Jagst, Peter, 3,660,866.
- Truhan, Andrew: *See—*
 Ubersax, Richard W.; and Truhan, Andrew, 3,672,351.
- Truhan, Andrew. Detection of urinary tract infections. 3,634,198, 1-11-72, Cl. 195-100.
- Truhon, John A. Door lock. 3,698,215, 10-17-72, Cl. 70-152.000.
- Truline Casting Company: *See—*
 Fabens, Andrew Lawrie, Jr., 3,678,990.
- Trull, Gary E., to Honeywell Inc. Frequency responsive fluid switch. 3,704,719, 12-5-72, Cl. 137-81.500.
- Truman, Charles L., to Kimberly-Clark Corporation. Garment production apparatus with automatic sleeve placement. 3,681,785, 8-8-72, Cl. 2-243.00r.
- Truman, Chester W.: *See—*
 Belzer, Folkert O.; and Truman, Chester W., 3,632,473.
- Truman, George W., to Dixico, Inc. Upstanding pouch of flexible material. 3,659,775, 5-2-72, Cl. 229-53.
- Truman, John Edmund: *See—*
 Kirkby, Henry William; and Truman, John Edmund, 3,649,252.
- Trump, John George; Skillicorn, Brian; and Johnson, Byron Lee, to High Voltage Power Corporation. Electromagnetic induction apparatus. 3,684,991, 8-15-72, Cl. 336-70.000.
- Trump, Norman M., to Mack Trucks, Inc. Restraint device for vehicle cab sleeper bunk. 3,695,698, 10-3-72, Cl. 297-390.000.
- Trumpf & Co.: *See—*
 Leibinger, Berthold, 3,678,562.
- Trundle, Albert S.: *See—*
 Wyatt, Philip J.; Trundle, Albert S.; and Bruckner, Judith B., 3,654,437.
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- Trundle, Albert S., to United States of America, Army. Light scattering cell. 3,700,338, 10-24-72, Cl. 356-246.000.
- Trunk, Edmund G.: *See—*
 Wilens, Seymour; and Trunk, Edmund G., 3,694,703.
- Wilens, Seymour; and Trunk, Edmund G., 3,670,215.
- Trunkline Gas Company: *See—*
 Hooper, William Coggin, Jr., 3,635,036.
- Trunzo, Floyd F.; and Scheidmantel, David A., to Westinghouse Electric Corporation. High temperature adhesive overcoat for magnet wire. 3,676,814, 7-11-72, Cl. 336-205.000.
- Trupin, Bennett W.: *See—*
 Klein, Hyman J.; and Trupin, Bennett W., 3,662,425.
- Trupp, Garrison G.; and Trupp, Marc A. Faucet and plumbing attachment for interdental mouth wash dispenser. 3,690,314, 9-12-72, Cl. 128-66.000.
- Trupp, Granbyrne Garrison: *See—*
 Trupp, Mason; and Trupp, Granbyrne Garrison, 3,653,611.
- Trupp, Marc A.: *See—*
 Trupp, Garrison G.; and Trupp, Marc A., 3,690,314.
- Trupp, Mason; and Trupp, Granbyrne Garrison. Slotted delta wing aircraft. 3,653,611, 4-4-72, Cl. 244-48.
- Truppe, Meinhard; Schernthaner, Matthias; and Pofel, Gunter, to Vereinigte Österreichische Eisen- und Stahlwerke Aktiengesellschaft. Measuring device for continuously measuring the temperature of metal baths. 3,647,559, 3-7-72, Cl. 136-234.
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- Trushelis, John Raymond: *See—*
 Fyson, John William; and Truscott, John Raymond, 3,661,157.
- Trusheim, Frank M.; and Zaniewski, Walter C., to Keuffel & Esser Company. Imaging method. 3,642,477, 2-15-72, Cl. 96-45.2.
- Trushelis, Ivan Avgustovich: *See—*
 Ioffe, Benyamin Alexandrovich; Mikelson, Artur Eduardovich; Makhlin, Aron Judovich; Lapidus, Mikhail Khaimovich; Salnikov, Jury Nikolaevich; Kazhe, Alexandr Zhanovich; and Trushelis, Ivan Avgustovich, 3,651,439.
- Ioffe, Benyamin Alexandrovich; Kalnin, Robert Karlovich; Dorofeev, Vyacheslav Semenovich; Trushelis, Ivan Avgustovich; Zheigur, Bruno Domenikovich; Rizhsky Raion, Salaspils; Ivanov, Anatoly Andreevich; and Preis, Vladimir Viktorovich, 3,661,298.
- Truskolaski, Bernard S., to Minnesota Mining and Manufacturing Company. Decorative bow and method of making same. 3,676,277, 7-11-72, Cl. 161-9.000.
- Truss Manufacturing Co., Inc.: *See—*
 Wright, Jay D., 3,662,502.
- Trussell, Earl R. Double spool wire winder with automatic spooling mechanism. 3,661,340, 5-9-72, Cl. 242-86.008.
- Trussell, Harry B., to Fermionics, Inc. Municipal waste disposal. 3,655,046, 4-11-72, Cl. 210-11.
- Trussell, Paul C.: *See—*
 Clark, Trevor P.; and Trussell, Paul C., 3,639,653.
- Trust, Ida J.: *See—*
 Eisenhauer, William A., 3,673,710.
- Truswal Systems, Inc.: *See—*
 Schmitt, Jack N., 3,651,612.
- Truth Incorporated: *See—*
 Martin, Jerry L., 3,706,467.
- Trutnev, Vladimir Alexandrovich: *See—*
 Kuznetsov, Lev Vasilievich; Slavinsky, Zunya Mikhalevich; Kalachev, Vasily Alexeevich; Krupin, Alexandr Leonidovich; Aristarkhov, Nikolai Alexandrovich; Popkov, Eduard Jurievich; Trutnev, Vladimir Alexandrovich; and Bulychiev, Nikolai Petrovich, 3,704,496.
- Truxa, Leslie, to Dominion Engineering Works, Limited. Drainage foil for a papermaking machine. 3,647,620, 3-7-72, Cl. 162-211.
- Truxillo, Ruffin G., to Tru-Line, Inc. Method of aligning bearings of shafting systems. 3,689,968, 9-12-72, Cl. 29-149.50r.
- TRW Inc.: *See—*
 Alexander, John A., 3,649,425.
- Arutunoff, Armais; and O'Rourke, John C., 3,672,795.
- Batista, Roy I., 3,703,032.
- Beck, Alfred B., 3,691,485.
- Beck, Alfred B., 3,697,895.
- Berks, William I.; and Smith, Webster D., 3,662,952.
- Bhuta, Pravin G.; and Aprahamian, Robert, 3,685,008.
- Bhuta, Pravin G.; Johnson, Robert L.; and Graham, Douglas J., 3,703,463.
- Bills, Kenneth G., 3,645,651.
- Bishop, Thomas H.; and Young, Kenneth K., Jr., 3,662,816.
- Blacklock, Colin Francis, 3,704,486.
- Blazek, William S., 3,675,708.
- Bognar, Bela, 3,691,325.
- Brenneke, Arthur M., 3,659,415.
- Brenneke, Arthur M., 3,697,090.
- Briones, Robert A., 3,670,570.
- Brooks, Robert E., 3,633,987.
- Brooks, Robert E., 3,644,012.
- Brooks, Robert E., 3,659,914.
- Brooks, Robert E.; and Heflinger, Lee O., 3,668,405.
- Brooks, Robert E., 3,672,776.
- Brooks, Robert E., 3,694,657.
- Burk, Maksymilian; Bowes, William M.; and Krieg, Herman C., Jr., 3,652,008.
- Burk, Maksymilian, 3,664,809.
- Casey, Harry B.; and Clark, Carl E., 3,657,688.
- Casey, Harry B.; and Clark, Carl E., 3,657,689.
- Cass, Richard; and Herbenar, Edward J., 3,692,295.
- Chambers, Harry A.; and Nehls, Ronald, 3,657,851.
- Clark, Clyde C., 3,665,083.
- Clark, Hubert M., 3,671,143.
- Colletti, John B., 3,707,167.
- Cook, Harvey A., 3,669,084.
- Daniels, Edward S., 3,645,207.
- Dillard, Paul A.; and Baker, Donald R., 3,677,508.
- Dillard, Paul A., 3,690,080.
- Dishington, Roland H.; and Hook, William R., 3,638,025.
- Dougherty, Charles B., 3,700,801.
- Drutchas, Gilbert H.; and Clark, Hubert M., 3,675,422.
- Drutchas, Gilbert H.; Berman, George A.; and Spencer, Phillip B., 3,679,329.
- Drutchas, Gilbert H.; Atkin, Rupert L.; and Shaw, Garrett D., 3,707,312.
- Duffy, William B.; and Fisher, Charles K., 3,659,491.
- Ellingboe, Jules K., 3,637,994.
- Elliott, Robert L., 3,654,840.
- Elverum, Gerard W., Jr., 3,699,772.
- Erhardt, William A., Jr., 3,698,616.
- Ernst, Charles H.; and Cawley, Martin Dean, 3,680,944.
- Fiet, Owen O., 3,657,630.
- Garboushian, Vahan, 3,649,872.
- Grabill, Paul J., Jr.; and Suttus, David J., 3,696,615.
- Grill, Raymond J., 3,664,509.
- Haef, Andrew V., 3,643,123.
- Hagan, Melvin A.; and Batista, Roy I., 3,706,539.
- Hall, Charles H.; Young, Albert L.; and Young, N Keith, 3,699,581.

- Hansen, David O.; Altschuler, Saul; Bernstein, William; and Hamermesh, Bernard, 3,679,897.
- Heflinger, Lee Opert, 3,702,738.
- Hein, Frank J.; and Fleck, Donald G., 3,680,625.
- Herbenar, Edward J., 3,679,248.
- Herbenar, Edward J., 3,686,742.
- Herbenar, Edward J.; and Jenio, Sam, 3,707,094.
- Hilberg, Ronald P., 3,673,504.
- Hirshon, Jack M.; and Warner, Philip D., 3,678,346.
- Hook, William R.; Hilberg, Ronald P.; and Dishington, Roland H., 3,694,769.
- Howe, John Arthur; and Bryan, Leslie Oliver, 3,673,368.
- Hu, King Lau, 3,663,321.
- Ingerson, Paul G., 3,681,772.
- Inouye, George T., 3,638,074.
- Irwin, Arthur S., 3,645,593.
- Irwin, Arthur S., 3,689,124.
- Irwin, Arthur S., 3,706,483.
- Karr, Lawrence J.; and Fried, Norman, 3,700,313.
- King, David G.; and Burke, William P., Jr., 3,652,191.
- Kirkpatrick, Milton E.; and Mendelson, Ralph A., 3,650,646.
- Kirkpatrick, Milton E., 3,651,240.
- Kirkpatrick, Milton E.; and Mendelson, Ralph A., 3,665,260.
- Kirkpatrick, Milton E., 3,673,306.
- Kirkpatrick, Milton E., 3,677,329.
- Kirkpatrick, Milton E.; Reger, Jo L.; and Staudhammer, Karl P., 3,706,614.
- Krieve, Walter F., 3,636,720.
- Kuykendall, James H., 3,641,424.
- La Vantine, Allan D., 3,645,606.
- Lake, Donald; Perrin, Badger; and Nolan, Frederick J., 3,675,817.
- Le Vantine, Allan D., 3,701,521.
- Lubowitz, Hyman R.; Wilson, Edgar R.; Jones, John F.; Burns, Eugene A.; and Braswell, Troy F., 3,632,428.
- Lubowitz, Hyman R.; and Burns, Eugene A., 3,635,891.
- Lubowitz, Hyman R.; Kendrick, William P.; Jones, John F.; Thorpe, Richard S.; and Burns, Eugene A., 3,647,529.
- Lubowitz, Hyman R.; and Vaughan, Robert W., 3,697,308.
- Lubowitz, Hyman R.; Kendrick, William P.; Jones, John F.; and Burns, Eugene A., 3,699,074.
- Lubowitz, Hyman R., 3,699,075.
- Luckey, George R., 3,672,104.
- Luckey, George R., 3,691,705.
- Lusk, Walter D., 3,657,891.
- Marshall, Fred R., 3,643,178.
- Matay, Istvan M., 3,690,153.
- Millman, Sidney E., 3,657,572.
- Millman, Sidney E., 3,671,774.
- Mueller, Charles L., 3,650,035.
- Mueller, Charles L., 3,704,551.
- Murray, Robert T., 3,699,328.
- Olson, Gaylor G., 3,673,412.
- Pearson, Durk J., 3,678,411.
- Peters, Eugene R.; and Rutherford, Walter H., 3,658,290.
- Piwonka, Thomas S.; and Hanna, James V., 3,682,458.
- Rice, Edward J., 3,676,230.
- Rose, John A., 3,659,645.
- Rutkowski, Eugene V., 3,667,567.
- Samuels, Ronald L., 3,635,015.
- Sandera, Jiri, 3,685,141.
- Sandera, Jiri, 3,689,392.
- Schulte, Louis T., 3,670,578.
- Scott-Monck, John A.; and Learn, Arthur J., 3,660,154.
- Shakespeare, William B. J., 3,694,059.
- Shlosinger, Arnold P., 3,637,007.
- Silverman, Herbert P.; and Giarrusso, Gino A., 3,676,188.
- Simmons, William W., 3,701,956.
- Smith, Webster D.; and Berks, William I., 3,662,951.
- Speyer, Fred B., 3,644,135.
- Stanley, Charles C., 3,664,837.
- Stanley, Delmar O., 3,701,652.
- Staudhammer, Karl P.; and Reineking, Vernon H., 3,691,623.
- Staudhammer, Karl P.; and Reineking, Vernon H., 3,697,634.
- Tauschek, Max J., 3,649,380.
- Taylor, John B. M., 3,695,778.
- Uram, Stuart Z., 3,639,507.
- Van Buren, Harold S., Jr., 3,703,120.
- Vargo, Edward J., 3,632,410.
- Vaughan, Robert W.; and Lubowitz, Hyman R., 3,697,345.
- Vitchea, Edward T.; Hooker, Leslie A.; and Lauder, Richard P., 3,636,605.
- Welther, Robert S., 3,652,042.
- White, Hollis N., Jr.; and Bough, Dale E., 3,687,578.
- White, Peter G., 3,700,331.
- Wieland, Howard N., 3,662,145.
- Williamson, Clyde E.; and Baker, Donald R., 3,698,958.
- Witte, Robert S.; Frantz, Lee M.; and Peters, Eugene R., 3,688,217.
- Witte, Robert S., 3,699,470.

- Wood, Ruey E., Jr., 3,693,999.
 Wu, Joseph; and Conway, Joseph Rae, 3,706,137.
 Wuerker, Ralph F., 3,701,957.
 TRW Inc., *mesne*: See—
 Carlson, Peter T.; Weremey, Frederick J.; and Mitchell, Edward B., 3,662,288.
 Davies, Paul M., 3,646,528.
 Duffy, William B., 3,675,958.
 Ehrlich, Don E., 3,647,129.
 Ehrlich, Don E., 3,668,363.
 Howe, John Arthur, 3,670,121.
 Mitchell, Edward B., 3,676,626.
 Parkin, Leslie, 3,631,757.
 Seckerson, Clifford A., 3,678,797.
 Seckerson, Clifford Alexander; and Barnett, Barry Roger Michael, 3,631,569.
 Shears, Stuart T., 3,700,392.
 Spisak, Steve, 3,679,860.
 Van Buren, Harold S., Jr., 3,674,233.
 Wieland, Howard N.; and Ehrlich, Don E., 3,653,693.
 TRW Semiconductors Inc.: See—
 Bailey, Robert F., 3,640,783.
 Tryon, Lansing E.: See—
 Gueldenpfennig, Klaus; Reehil, Edward G.; and Tryon, Lansing E., 3,705,386.
 Tryon, Sager, to FMC Corporation. Solid state polymerization of polyester filaments. 3,634,356, 1-11-72, Cl. 260-75.
 Trzaska, Theodore T.: See—
 Kessler, Clarence W.; and Trzaska, Theodore T., 3,637,291.
 Trzaska, Theodore T., to National Cash Register Company, The. Electrostatic device with controllable acceleration. 3,655,019, 4-11-72, Cl. 192-48.9.
 Trzeciak, John R.: See—
 Cwynar, Thomas; and Trzeciak, John R., 3,688,098.
 Trzepacz, Jean Compiegne: See—
 Devienne, Andre; and Trzepacz, Jean Compiegne, 3,638,705.
 Trzyna, Charles J., to Trzyna, Charles J., *mesne* and Electronic Precision Industries Corporation, Inc. Printout drum. 3,693,544, 9-26-72, Cl. 101-375.000.
 Trzyna, Charles J., *mesne*: See—
 Trzyna, Charles J., 3,693,544.
 Tsagina, Raisa Fedorovna: See—
 Krylov, Vsevolod Semenovich; Popkov, Ivan Nikolaevich; Magunov, Robert Leonidovich; Puring, Mikhail Nikolaevich; Bagdasarov, Khachatur Saakovich; Tsagina, Raisa Fedorovna; and Popov, Viktor Innokentievich, 3,667,901.
 Tsai, James H.; and Anderson, Glenn H., to Dow Chemical Company, The. Multinuclear π -complexes having at least two metal-cobalt bonds. 3,676,474, 7-11-72, Cl. 260-429.
 Tsai, James H.; and Anderson, Glenn H., to Dow Chemical Company, The. Metal-cobalt carbonyl complexes. 3,679,722, 7-25-72, Cl. 260-429.700.
 Tsai, Shan-Pu: See—
 Foley, Edward F., Jr.; Tsai, Shan-Pu; and Zatorsky, William A., 3,704,156.
 Tsailingold, Anatoly Lvovich: See—
 Stepanov, Gennady Arkadievich; Tsailingold, Anatoly Lvovich; Pilipenko, Fedor Semenovich; Sodelev, Valerian Mikhailovich; Borekov, Georgy Konstantinovich; Buyanov, Roman Alexeevich; and Venyaminov, Sergei Alexeevich, 3,678,124.
 Tsang, Paul J.: See—
 Li, Pei-Ching; and Tsang, Paul J., 3,706,597.
 Tsao, Carson K. H.; and De Bettencourt, Joseph T., to Raytheon Company. Apparatus for measuring conductivity in a dissipative medium with electrically short probes. 3,660,754, 5-2-72, Cl. 324-5.
 Tsao, Carson K. H.; De Bettencourt, Joseph T.; and Rowland, Howard J., to Raytheon Company. Subsurface traveling wave antenna. 3,680,133, 7-25-72, Cl. 343-719.000.
 Tsao, Thomas K. Apparatus for detecting movable objects. 3,680,039, 7-25-72, Cl. 340-1.00r.
 Tsao, Utah: See—
 Fogman, Carl Bertil; Nelson, Hugh Wharton; and Tsao, Utah, 3,650,888.
 Fogman, Carl Bertil; Nelson, Hugh Wharton; and Tsao, Utah, 3,650,889.
 Tsao, Utah, to Lummus Company, The. Neutralization and drying of halogenated and alkylated hydrocarbons. 3,660,248, 5-2-72, Cl. 203-7.
 Tsao-Wu, Nelson Tsin: See—
 Dalley, James Edwin; and Tsao-Wu, Nelson Tsin, 3,700,927.
 Opferman, David Clement; and Tsao-Wu, Nelson Tsin, 3,638,193.
 Tsapsky, Alexandr Zakharovich: See—
 Sointsev Viktor Gavrilovich; Manuilov, Jury Grigorievich; Karataev, Gury Sergeevich; Podborsky, Leonid Ermolaevich; Mikhailov, Pavel Mikhailovich; Tsapsky, Alexandr Zakharovich; Milov, Vladimir Gennadievich; Saikonen, Evert Alexandrovich; Gubanov, Vadim Gergievich; Olkhovsky, Jury Fedorovich; Naret, Grigory Borisovich; Garbuzov, Zalman Eremeevich; Balakio, Viktor Nikolaevich; Griffin, Evgeny Pavlovich; Smirnov, Alexandr Fedorovich; Mutushev, Gavril Akhmetovich; Smirnov, Leonid Nikolaevich; Livshits, Lev Grigorievich; and Lamin, Vladimir Ivanovich, 3,681,863.
 Tschamper, Pierre M., to United States of America, Atomic Energy Commission. Anti-jam sliding seal structure. 3,677,891, 7-18-72, Cl. 176-36.00r.
 Tschamer, Christopher Johannes, to Geigy Chemical Corporation. Substituted bis-triazinylamino stilbene compounds and compositions thereof. 3,676,339, 7-11-72, Cl. 252-8.750.
 Tschesche, Rudolf: See—
 Schacht, Ulrich; Tschesche, Rudolf; and Duphorn, Ingolf, 3,660,569.
 Tscheschner, Walter; and Fuchs, Siegfried R. E., to VEB Elektronische Rechenmaschinen. Circuit arrangement for synthesis of acoustic elements. 3,652,801, 3-28-72, Cl. 179-1.
 Tschirgi, Alan W. Dehydrated potato product and process for producing same. 3,650,776, 3-21-72, Cl. 99-207.
 Tschopp, Werner. Stabilizing magnetic fields. 3,673,465, 6-27-72, Cl. 317-123.000.
 Tschunt, Edgar, to Siemens Aktiengesellschaft. Apparatus for radiation diagnosis. 3,697,751, 10-10-72, Cl. 250-50.000.
 Tselikov, Alexandr Ivanovich; Grum-Grzhimailo, Nikolai Alexeevich; Verderevsky, Vadim Anatolevich; Vernik, Alexandr Borisovich; Skorupsky, Boris Pavlovich; Kazakevich, Igor Il'larionovich; and Kuznetsov, Ivan Vasilievich. Mill to produce spiral-welded double layer pipes. 3,661,314, 5-9-72, Cl. 228-15.
 Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolevich, to Vsesojuzny Nauchno-Issledovatel'sky and Proektirovatskiy Institut Metallurgicheskogo Mashinostroeniya. Method and apparatus for cold rolling thin wall pipe. 3,670,549, 6-20-72, Cl. 72-208.000.
 Tselikov, Alexandr Ivanovich; Nosal Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolevich, to Vsesojuzny Nauchno-Issledovatel'sky and Proektirovatskiy Institut Metallurgicheskogo Mashinostroeniya. Cold rolling pipe mill roller type rolling stand. 3,673,840, 7-4-72, Cl. 72-208.000.
 Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolevich, to Vsesojuzny Nauchno-Issledovatel'sky and Proektirovatskiy Institut Metallurgicheskogo Mashinostroeniya. Floating, blank feed and turning mechanism for thin wall pipe mill. 3,680,345, 8-1-72, Cl. 72-208.000.
 Tsen, John Bor-Sow, to General Electric Company. Ice service for household refrigerators. 3,653,224, 4-4-72, Cl. 62-344.
 Tseng, David Y. Stimulated radiation cavity structure. 3,646,470, 2-29-72, Cl. 331-94.5.
 Tseng, Samuel Chin-Chong: See—
 Ash, Eric A.; and Tseng, Samuel Chin-Chong, 3,699,482.
 Lean, Eric G.; Pole, Robert V.; and Tseng, Samuel Chin-Chong, 3,633,996.
 Lean, Eric G.; Sadagopan, Varadachari; and Tseng, Samuel Chin-Chong, 3,648,081.
 Lean, Erich Gung Hwa; Pole, Robert Valdimir; and Tseng, Samuel Chin-Chong, 3,684,892.
 Tseng, Samuel Chin-Chong, to International Business Machines Corporation. Surface wave transducer for digital signals. 3,680,007, 7-25-72, Cl. 333-30.00r.
 Tseng, Stanley: See—
 Ching, Cho Kin; Cohen, Walter; and Tseng, Stanley, 3,660,167.
 Tsender, Boris Ioselevich; Sergeev, Vyacheslav Mikhailovich; and Kloss, Alexandr Ilich. Hermetically sealed nickel-hydrogen storage cell. 3,669,744, 6-13-72, Cl. 136-28.000.
 Tsentralny Nauchno-Issledovatel'sky Institut Chernoi Metallurgii imeni I.P. Bardina: See—
 Rutes, Viktor Savellievich; Petrov, Vladimir Konstantinovich; Terterian, Aram Aristagesovich; Chigrinov, Mikhail Grigorievich; Ballard, Erik Rikhardovich; Gankin, Vladimir Borisovich; Kolpakov, Serafim Vasilievich; Evteev, Dmitry Petrovich; Manokhin, Anatoly Ivanovich; Klimashin, Petr Sergeevich; Matevosian, Elena Pavlovna; Nosochenko, Oleg Vasilievich; and Lavrov, Alexandr Sergeevich, 3,685,986.
 Tsilibes, George N., to Xerox Corporation. Pneumatically controlled seal. 3,635,196, 1-18-72, Cl. 118-637.
 Tsimbler, Jury Abramovich: See—
 Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Kantor, Ilia Solomonovich; Lachinov, Alexandr Alexandrovich; Dzhanelidze, Vazna Venediktovich; Topolyanky, Jury Arnoldovich; Kolbechenkov, Alexandr Dmitrievich; and Chizhikov, Vladimir Maiorovich, 3,689,010.
 Tsoaras, John: See—
 Bickel, David P.; Davis, Melvin H.; Starks, Karl H., Jr.; and Tsoaras, John, 3,678,486.
 Tsoaras, John; Davis, Melvin H.; Bickel, David P.; and Starks, Karl H., Jr. Electronic temperature monitoring system. 3,688,295, 8-29-72, Cl. 340-227.000.
 Tsou, Ivan H.: See—

- Burlant, William J.; and Tsou, Ivan H., 3,632,399.
 Tsouladze, Guy: See—
 Lalet, Philippe; and Tsouladze, Guy, 3,666,734.
 Tsu, Kin Hsueh-Yuan, to American Cyanamid Company. Catalytic process for manufacture of unsaturated acids and esters. 3,634,494, 1-11-72, Cl. 260-486.
 Tsu, Kin Hsueh-Yuan, to American Cyanamid Company. Staged oxygen feed in a catalytic process for the manufacture of unsaturated acids and esters. 3,652,654, 3-28-72, Cl. 260-486.
 Tsubaki, Hiroshi: See—
 Fujiki, Yu; and Tsubaki, Hiroshi, 3,650,328.
 Tsubaki, Keisuke: See—
 Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Tsubaki, Keisuke, 3,652,399.
 Isono, Masao; Tomoda, Katsumi; Miyata, Kouichi; Maejima, Kazutaka; and Tsubaki, Keisuke, 3,655,570.
 Tsubakihara, Shuzo, to Denki Onkyo Co., Ltd. Saturable reactor. 3,701,067, 10-24-72, Cl. 336-90.000.
 Tsubakimoto Chain Mfg. Co., Ltd., The: See—
 Matsumoto, Mikio; Terada, Kenji; and Matsunaga, Mitsuru, 3,646,613.
 Tsubakimoto Chain Mfg. Co., The: See—
 Matsumoto, Mikio; Terada, Kenji; and Matsunaga, Mitsuru, 3,660,643.
 Shibata, Seiya; Yamasaki, Akitoshi; and Shimono, Isokazu, 3,672,666.
 Tsuboi, Masayoshi: See—
 Suzuki, Yoshiaki; and Tsuboi, Masayoshi, 3,632,617.
 Tsuboi, Masayoshi; Komura, Tsuneo; Tezuka, Sigeru; and Kondo, Asaji, to Fuji Photo Film Co., Ltd. Hot screen printing machine. 3,649,810, 3-14-72, Cl. 219-216.
 Tsuboi, Nobuyoshi: See—
 Sasaki, Akio; Sakata, Hiroshi; and Tsuboi, Nobuyoshi, 3,653,329.
 Tsuboi, Takashi: See—
 Onoda, Yoshimitsu; and Tsuboi, Takashi, 3,686,548.
 Tsuboi, Takeo: See—
 Nishimura, Tatsumi; Inoue, Tadahiko; Tsuboi, Takeo; and Kado, Masaru, 3,671,640.
 Tsuboi, Yukio; Ueda, Yoshio; Ota, Tazuo; and Yoneoka, Mikio, to Japan Gas-Chemical Company, Inc. Process for purifying xylenediamine by alkaline agent addition and distillation. 3,647,054, 3-7-72, Cl. 203-29.
 Tsubota, Motohiko: See—
 Sakaguchi, Yoshiaki; Sakai, Masakado; Ohki, Masanaga; Nakamura, Yasuharu; Tsubota, Motohiko; and Sato, Akira, 3,694,217.
 Shiba, Keisuke; Akira, Sato; and Tsubota, Motohiko, 3,667,960.
 Shiba, Keisuke; Tsubota, Motohiko; Sato, Akira; Ikeda, Tadashi; and Ogawa, Akira, 3,679,428.
 Shiba, Keisuke; Sueyoshi, Tohru; Akira, Sato; Kubodera, Seiiti; and Tsubota, Motohiko, 3,706,566.
 Tsubota, Yoshiharu: See—
 Takamatsu, Yasuto; Ishii, Toshio; Hayami, Toshio; and Tsubota, Yoshiharu, 3,655,887.
 Tsubouchi, Denji; and Wada, Kenji, to Tokyo Shibaura Electric Co., Ltd. Current transformer assembly. 3,665,357, 5-23-72, Cl. 336-73.
 Tsubouchi, Denji; Ito, Susumu; Toyota, Eisuke; and Wada, Kenji, to Tokyo Shibaura Electric Co., Ltd. Upright type bushing current transformer. 3,668,513, 6-6-72, Cl. 323-60.
 Tsubouchi, Hideo: See—
 Matsui, Kazuma; and Tsubouchi, Hideo, 3,690,306.
 Tsubouchi, Kaoru, to Aisin Seiki Kabushiki Kaisha. Sealed reservoir for hydraulic brake systems. 3,654,956, 4-11-72, Cl. 137-558.
 Tsubouchi, Kaoru, to Aisin Seiki Kabushiki Kaisha. Liquid level indicating arrangement for vehicles. 3,680,044, 7-25-72, Cl. 340-59.000.
 Tsubouchi, Norio: See—
 Ohno, Tomeji; Takahashi, Masao; Akashi, Tsuneo; and Tsubouchi, Norio, 3,654,160.
 Tsubouchi, Norio; Takahashi, Masao; Ohno, Tomeji; and Akashi, Tsuneo, to Nippon Electric Company, Limited. Piezoelectric ceramic-material. 3,699,045, 10-17-72, Cl. 252-62.900.
 Tsuchida, Eishun, to Asahi Kasei Kogyo Kabushiki Kaisha. Azobenzene. 3,654,260, 4-4-72, Cl. 260-205.
 Tsuchida, Hiroaki: See—
 Taguchi, Kazuo; and Tsuchida, Hiroaki, 3,701,929.
 Tsuchida, Shunichiro: See—
 Shibaoka, Haruo; and Tsuchida, Shunichiro, 3,649,277.
 Tsuchida, Takashi; Hayase, Yoshiaki; and Fujisawa, Yoshirou, to Fuji Denki Kagaku Kabushiki Kaisha. Process for producing electrodes for rechargeable alkaline cells. 3,674,561, 7-4-72, Cl. 136-29.000.
 Tsuchida, Takayasu: See—
 Okumura, Shinji; Otsuke, Shinichiro; Yamanoi, Akio; Yoshinaga, Fumihiro; Honda, Takeshi; Kubota, Koji; and Tsuchida, Takayasu, 3,660,235.
 Tsuchihashi, Genichi: See—
 Fujisawa, Tamotsu; Yamamoto, Mizuo; and Tsuchihashi, Genichi, 3,678,115.
 Fujisawa, Tamotsu; Ohtsuka, Noriko; Kobori, Takeo; and Tsuchihashi, Genichi, 3,706,805.
 Tsuchihashi, Takashi: See—
 Sando, Yoshikazu; Tsuchihashi, Takashi; and Ishidoshiro, Hiroshi, 3,655,328.
 Tsuchimochi, Yoshihisa: See—
 Mabuchi, Kenichi; and Tsuchimochi, Yoshihisa, 3,696,558.
 Tsuchimoto, Takashi, to Hitachi, Ltd. Method of implanting impurities into the surface of a semiconductor. 3,635,767, 1-18-72, Cl. 148-1.5.
 Tsuchimoto, Takashi; Tokuyama, Takashi; and Komatsubara, Kiichi, to Hitachi, Ltd. Method for producing semiconductor device utilizing ion implantation. 3,660,171, 5-2-72, Cl. 148-1.5.
 Tsuchino, Masatoshi: See—
 Oda, Kenzo; Okuda, Yukio; Kurata, Naoji; Koshida, Kazuo; and Tsuchino, Masatoshi, 3,660,504.
 Tsuchiya, Harufumi: See—
 Furuya, Akio; Hayashi, Masaaki; Nagami, Kouichi; Uchida, Masakatsu; Nishino, Sakae; Asada, Toshikatsu; Nagao, Yasuo; Matsuda, Hiroyoshi; and Tsuchiya, Harufumi, 3,689,446.
 Tsuchiya, Hiroshi; Horiuchi, Fukashi; Mukai, Kunio; Kimura, Akio; Suminori; Fujimoto, Keimei; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Tanaka, Katsutoshi; Ooishi, Tadashi; and Takeda, Hisami, to Sumitomo Chemical Company, Ltd. S(alkylthio ethyl) phosphorothioamide. 3,670,057, 6-13-72, Cl. 260-948.000.
 Tsuchiya, Kaichi: See—
 Nagashima, Shinichiro; and Tsuchiya, Kaichi, 3,706,551.
 Tsuchiya, Masuo: See—
 Juna, Kiyoshi; and Tsuchiya, Masuo, 3,684,746.
 Tsuchiya, Michio: See—
 Ogino, Yoshisada; Igarashi, Akira; and Tsuchiya, Michio, 3,634,532.
 Tsuchiya, Takao: See—
 Kishikawa, Kanichi; Kuwata, Takeo; Kinoshita, Kentaro; Tsuchiya, Takao; and Kamogawa, Yoshio, 3,678,721.
 Shinoda, Hajime; and Tsuchiya, Takao, 3,654,495.
 Tsuchiya, Takuzo: See—
 Blixrud, John O.; Knigge, Wayne I.; Rustad, Stanley C.; and Tsuchiya, Takuzo, 3,672,294.
 Tsuchiya, Teruo, to Kabushikikaisha Tokyo Keiki Seizosho. Marine steering device for ships equipped with two propellers. 3,636,910, 1-25-72, Cl. 115-35.
 Tsuchiya, Yoshinori: See—
 Tsuji, Nobuo; Tajima, Tatsuya; Miyazako, Takushi; Tsuchiya, Yoshinori; and Nishio, Fumihiko, 3,666,470.
 Tsuchiyama, Nobuo: See—
 Ito, Koji; Arai, Sadao; and Tsuchiyama, Nobuo, 3,658,947.
 Tsuda, Hiroshi, to Olympus Optical Co., Ltd. Viewer mask changing device for a microscope having photographic cameras. 3,633,482, 1-11-72, Cl. 95-44.
 Tsuda, Minoru, to Industrial Science & Technology, Agency of. Photosensitive compositions containing furylacrylyl-containing polymer. 3,647,470, 3-7-72, Cl. 96-115.
 Tsuda, Minoru; Yosida, Akio; and Yuki, Takamitsu, to Chugai Seiyaku Kabushiki Kaisha. Polymers and process for preparing the same. 3,671,468, 6-20-72, Cl. 260-2.00r.
 Tsuda, Momotoshi: See—
 Yoshida, Makoto; Tsuda, Momotoshi; Oishi, Yasushi; and Nakazyo, Kiyoshi, 3,685,995.
 Tsuda, Motohisa; and Yoshimura, Masao, to Shimadzu Seisakusho Ltd. System for continuously varying the size of the field of an X-ray image intensifier tube. 3,675,027, 7-4-72, Cl. 250-213.0vt.
 Tsuda, Shozo; and Nozaki, Masanori, to Fuji Koki Kabushiki Kaisha. Self leveling transit level having novel locking mechanism. 3,663,111, 5-16-72, Cl. 356-250.
 Tsuda, Wasuke: See—
 Nakagawa, Keiji; and Nakagawa, Junichiro; and Tsuda, Wasuke, 3,665,937.
 Tsuda, Yoshizo; Yamamoto, Akinori; and Ikeda, Kozyuro, to Toray Industries, Inc. Copolyamides from dodecane dioic acid, hexamethylene diamine, m- and p-xylylene diamine. 3,649,602, 3-14-72, Cl. 260-78.
 Tsuda, Yoshizo; Yamamoto, Akinori; and Ikeda, Kozyuro, to Toray Industries, Inc. Ternary copolyamides from sebacic acid, hexamethylene diamine and xylene diamines. 3,649,603, 3-14-72, Cl. 260-78.
 Tsuda, Yoshizo; Yamamoto, Akinori; and Tanimura, Masamitsu, to Toray Industries, Inc. Copolyamides of paraxylene diamine. 3,652,509, 3-28-72, Cl. 260-78.
 Tsuda, Yoshizo; and Yamamoto, Akinori, to Toray Industries, Inc. Copolyamide from (a) dodecamethylene diamine, (b) hexamethylene diamine, (c) terephthalic acid and (d) adipic acid. 3,696,074, 10-3-72, Cl. 260-78.00r.
 Tsudakoma Industrial Co., Ltd.: See—
 Komatsu, Tokuji, 3,699,809.
 Tsuei, Chang-Chyi, to California Institute Research Foundation. Metallic resistance thermometer. 3,644,863, 2-22-72, Cl. 338-25.

Tsuetai, George F. Fused bifocal contact lens unit. 3,684,357, 8-15-72, Cl. 351-161.000.

Tsugami, Taishke. Apparatus for producing a punched tape record for recording working conditions of machine tools. 3,701,110, 10-24-72, Cl. 340-172.500.

Tsugami, Taisuke. Digital micrometer caliper. 3,667,127, 6-6-72, Cl. 33-164.

Tsugawa, Kazuyuki; and Sato, Yasuhiro, to Teijin Seiki Co., Ltd. False twist crimping apparatus. 3,638,411, 2-1-72, Cl. 57-34.

Tsuge, Junji: *See—*

Takeya, Kenji; Sekiguchi, Hideto; Tanahashi, Kunio; and Tsuge, Junji, 3,681,275.

Tsugeki, Toshii: *See—*

Hosokawa, Tomoyuki; Tsugeki, Toshii; and Kusunoki, Shigeru, 3,636,310.

Tsui, James B. Y.: *See—*

Simopoulos, Nicholas T.; and Tsui, James B. Y., 3,703,685.

Tsui, Robert T.: *See—*

Kuhn, Lawrence; Sadagopan, Varadachari; and Tsui, Robert T., 3,696,312.

Tsuji, Hiroshi: *See—*

Tsuji, Shu; and Tsuji, Hiroshi, 3,683,959.

Tsuji, Hitoshi: *See—*

Isobe, Kenjiro; Tsuji, Hitoshi; Kawahata, Shigeo; Mori, Eiji; and Ito, Katsuhiko, 3,657,910.

Tsuji, Jiro; Hara, Michio; and Ohno, Kiyotaka, to Toray Industries, Inc. Catalyst for a hydrosilation reaction. 3,658,866, 4-25-72, Cl. 260-448.2.

Tsuji, Keiichi: *See—*

Takayanagi, Motowo; Sugiura, Shotaro; Matsuura, Tetsuro; Ueno, Haruo; Tsuji, Keiichi; Yamamoto, Shinzi; and Matsumoto, Fuminori, 3,644,585.

Tsuji, Masaru: *See—*

Shirai, Yoshihiro; Ichikawa, Hirohiko; Yoshida, Akira; Uchida, Naotake; Tsuji, Masaru; and Matsumoto, Zenji, 3,676,365.

Tsuji, Nobuo: *See—*

Amano, Hiroyuki; Tsuji, Nobuo; Miyazako, Takushi; Shirasu, Kazuo; and Tutiya, Yosinori, 3,650,752.

Amano, Hiroyuki; Nishio, Fumihiko; Tsuji, Nobuo; and Shirasu, Kazuo, 3,676,139.

Amano, Hiroyuki; Tsuji, Nobuo; and Shirasu, Kazuo, 3,677,762.

Honjo, Satoru; and Tsuji, Nobuo, 3,656,949.

Nishio, Fumihiko; Tsuji, Nobuo; Ikeda, Teppei; and Kawaguchi, Hideo, 3,645,740.

Shiba, Keisuke; Hinata, Masanao; Tsuji, Nobuo; Miyazako, Takushi; and Sato, Akira, 3,650,762.

Shiba, Keisuke; Hinata, Masanao; Tsuji, Nobuo; and Sato, Akira, 3,674,499.

Yasuda, Yukio; Tsuji, Nobuo; and Miyazako, Takushi, 3,655,389.

Tsuji, Nobuo; Tajima, Tatsuya; Miyazako, Takushi; Tsuchiya, Yoshinori; and Nishio, Fumihiko, to Fuji Photo Film Co., Ltd. Photographic printing element containing fluorescent dye. 3,666,470, 5-30-72, Cl. 96-82.

Tsuji, Ryuta: *See—*

Horikiri, Toshihiko; and Tsuji, Ryuta, 3,703,911.

Tsuji, Shigeo: *See—*

Miyashiro, Shoichi; Shirouzu, Shunji; and Tsuji, Shigeo, 3,702,410.

Tajiri, Hisao; Sato, Ituzo; Takemura, Yasuo; and Tsuji, Shigeo, 3,671,664.

Tsuji, Shigeo; and Shirouzu, Shunji, to Tokyo Shibaura Electric Co., Ltd. Semiconductor photoelectric converting device having spaced elements for decreasing surface recombination of minority carriers. 3,633,077, 1-4-72, Cl. 317-235.

Tsuji, Shoichi, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Rotary plate oil burner. 3,697,214, 10-10-72, Cl. 431-168.000.

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Tsuji, Toshiro: *See—*

Akashi, Tsuneo; Sugano, Izuru; Okuda, Taneaki; Onodo, Yoshihiro; and Tsuji, Toshiro, 3,655,841.

Tsuji, Toshiyuki: *See—*

Uchida, Kozo; and Tsuji, Toshiyuki, 3,671,673.

Tsuji, Yoshifumi: *See—*

Sakamoto, Junzo; Nozaki, Tadashi; Tsuji, Yoshifumi; and Shimada, Masaharu, 3,672,561.

Tsuji, Yoshio: *See—*

Mori, Ryoichi; Tajima, Hiroaki; Tsuji, Yoshio; and Sanechika, Noriaki, 3,681,616.

Tsujide, Tohru: *See—*

Nakagiri, Masaru; Onoda, Katsuhiro; Igarashi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tohru, 3,702,466.

Nakanuma, Sho; Tsujide, Tohru; and Wada, Toshio, 3,663,871.

Nakanuma, Sho; Tsujide, Tohru; Wada, Toshio; Igarashi, Ryo; and Onoda, Katsuhiro, 3,665,423.

Nakanuma, Sho; Tsujide, Tohru; and Wada, Toshio, 3,688,389.

Onoda, Katsuhiro; Igarashi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tohru, 3,651,490.

Wada, Toshio; Onoda, Katsuhiro; Igarashi, Ryo; Nakanuma, Sho; and Tsujide, Tohru, 3,646,527.

Tsujihara, Mamoru: *See—*

Shichijo, Yoshihisa; and Tsujihara, Mamoru, 3,674,416.

Tsujimoto, Kayoshi; Kuramoto, Yoshio; and Kobori, Toshio, to Minolta Camera Kabushiki Kaisha. Motor driving system for a still camera. 3,705,338, 12-5-72, Cl. 318-446.000.

Tsujimoto, Kazumi N., to Air Reduction Company, Incorporated. Electron beam gun. 3,701,915, 10-31-72, Cl. 313-82.000.

Tsujimoto, Michihiro: *See—*

Okubo, Ichiro; and Tsujimoto, Michihiro, 3,637,673.

Tsujimura, Kimiaki; and Moriya, Tosio, to Fuji Photo Film Co., Ltd. Method of continuously perforating a web and apparatus for the same. 3,672,248, 6-27-72, Cl. 83-37.000.

Tsuk, Andrew G., to Grace, W. R., & Co. Demulsification of sulfonated oil emulsions. 3,637,521, 1-25-72, Cl. 252-326.

Tsuk, Andrew G.; and Kirk, Charles C., to Grace, W. R., & Co. Cationic water-soluble polyvinyl alcohol retention aid. 3,702,800, 11-14-72, Cl. 162-168.000.

Tsukada, Naoshi: *See—*

Yokotsuka, Tamotsu; Aonuma, Tatsuo; Mogi, Koya; Fukushima, Danji; Yasuda, Atsushi; Watanabe, Hiroharu; Tsukada, Naoshi; and Arai, Akira, 3,647,484.

Tsukada, Toshihisa, to Hitachi, Ltd. Display device and method for scanning said device. 3,680,049, 7-25-72, Cl. 340-166.061.

Tsukagoshi, Kazuo: *See—*

Kawashimo, Kensuke; Tsukagoshi, Kazuo; and Itasaka, Tokio, 3,707,129.

Tsukagoshi, Tsunehiro: *See—*

Ohshita, Masahide; and Tsukagoshi, Tsunehiro, 3,674,549.

Tsukagoshi, Tsunehiro, to Pioneer Electronic Corporation. Multichannel magnetic head having a common ground terminal coupled to a piece of magnetic material on the face of the head. 3,643,035, 2-15-72, Cl. 179-100.2.

Tsukamoto, Goro: *See—*

Watanabe, Toshio; Tsukamoto, Goro; Hayashi, Kimiaki; Sato, Masanori; and Iwasawa, Yoshio, 3,647,799.

Tsukamoto, Hidehiko; and Maeda, Nobutaka, to Mitsubishi Jukogyo Kabushiki Kaisha. Support system for a cross-rolling machine for shaping rod-like workpieces. 3,678,719, 7-25-72, Cl. 72-95.000.

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Tsukamoto, Shuji: *See—*

Shimazaki, Hideo; Tsukamoto, Shuji; Saito, Tadaomi; Eguchi, Sadanari; and Komata, Yasushi, 3,647,825.

Tsukatani, Kenmi: *See—*

Nakajima, Tohru; Tashiro, Susumu; Tsukatani, Kenmi; and Mori, Koichi, 3,645,180.

Tsukernik, Vitaly Borisovich: *See—*

Borkovsky, Gennady Mikhailovich; Tsukernik, Vitaly Borisovich; and Ierusalimskaya, Irina Nikolaevna, 3,675,194.

Tsukihashi, Kazunobu. Puncher for marking devices. 3,705,683, 12-12-72, Cl. 234-87.000.

Tsukioka, Hideo; and Shito, Nobuhiko, to Hitachi, Ltd. Electrical apparatus containing graft polyethylene terephthalate-polystyrene insulating film to be used together with an insulating oil. 3,657,468, 4-18-72, Cl. 174-25.

Tsukuda, Kiyoshi; Kamei, Tatsya; and Ogawa, Takuzo, to Hitachi, Ltd. Multi-layer-type switch device. 3,688,164, 8-29-72, Cl. 317-235.000.

Tsukuda, Teruhiro; and Tsutsumi, Takashi, to Matsushita Electric Industrial Co., Ltd. Flyback transformer. 3,662,307, 5-9-72, Cl. 336-178.000.

Tsukui, Michio: *See—*

Nakamura, Masaji; Tsukui, Michio; Mukai, Junji; Narahara, Toshikazu; and Noguchi, Sumio, 3,705,208.

Tsukui, Michio; Watanabe, Yutaka; Suzuki, Hiroshi; Kitamura, Masahiro; and Mori, Yoshisuke, to Hitachi, Ltd. and Hitachi Chemical Company, Ltd. Thermo-setting resin composition and electrical appliances using the same. 3,658,750, 4-25-72, Cl. 260-38.

Tsukuma, Shin; and Higuchi, Akio. Device for controlling yarn winding pressure on a package. 3,675,862, 7-11-72, Cl. 242-18.00r.

Tsumagari, Tatsumi: *See—*

Nakanishi, Michio; Arimura, Katsuo; Tsumagari, Tatsumi; and Shiroki, Masami, 3,651,052.

Tsumaki, Tatsuchi: *See—*

Ishikawa, Tatsuo; Hiruta, Shiro; Wakabayashi, Teruomi; Inamoto, Yoshihiko; Kusunose, Tethiro; Tsumaki, Tatsuchi; and Ota, Masami, 3,705,877.

Tsumura, Juntendo Co., Ltd.: *See—*

Tsumura, Jusha; Imaseki, Isumi; and Nagasawa, Michio, 3,692,896.

Tsumura, Jusha; Imaseki, Isumi; and Nagasawa, Michio, to Tsumura, Juntendo Co., Ltd. Process for the preparation of water-soluble tablets. 3,692,896, 9-19-72, Cl. 424-78.000.

Tsunashima, Asaji: *See—*

Nagafuchi, Kazumi; Inada, Hitoshi; Ohmura, Nobuaki; Manago, Seiji; Tsunashima, Asaji; and Hazu, Masataka, 3,636,787.

Tsunekawa, Munehisa, to Nippon Kogaku K.K. Anomalous dispersion optical glass having a good weather proof characteristic. 3,653,933, 4-4-72, Cl. 106-47.

Tsuneo, Uraki: *See—*

Miki, Ryoji; Kayashima, Kouzo; and Tsuneo, Uraki, 3,688,200.

Tsuneoka, Masayuki: *See—*

Abe, Zenmon; Suzuki, Takaji; Tsuneoka, Masayuki; Kimura, Eiichi; Akazome, Teizo; Obayashi, Kanji; and Kasai, Gengo, 3,658,055.

Tsuneoka, Yoozi: *See—*

Kitajima, Masao; Tsuneoka, Yoozi; and Kondo, Asaji, 3,703,576.

Tsuneta, Asahide: *See—*

Sawagata, Shinichi; Nakahara, Masakatsu; and Tsuneta, Asahide, 3,643,121.

Tsuneta, Asahide; Tanaka, Hiroshi; and Kiriake, Yoshifumi, to Tokyo Shibaura Electric Co., Ltd. Shadow-mask having graduated rectangular apertures. 3,652,895, 3-28-72, Cl. 313-85.

Tsuneta, Asahide; Ohta, Yasuo; Ikegaki, Makoto; Sawagata, Shinichi; and Sato, Fumiyuki, to Tokyo Shibaura Electric Co., Ltd. In-line type triple electron gun assembly. 3,659,133, 4-25-72, Cl. 313-70.

Tsuneta, Asahide; and Ikegaki, Makoto, to Tokyo Shibaura Electric Co., Ltd. Shadow-mask having rectangular apertures. 3,663,854, 5-16-72, Cl. 313-85.00s.

Tsuneta, Asahide; and Sawagata, Shinichi, to Tokyo Shibaura Electric Co., Ltd. Method for adjusting the space between cathode and first plate grid electrodes in an electron gun member. 3,667,824, 6-6-72, Cl. 316-23.

Tsuneta, Asahide; and Harao, Norio, to Tokyo Shibaura Electric Co., Ltd. Cathode ray tube with mutually intersecting focusing coils. 3,706,909, 12-19-72, Cl. 315-27.0gd.

Tsunetomi, Eiichi: *See—*

Hiyama, Yoshio; Fujita, Haruo; Tsunetomi, Eiichi; Okada, Kan; and Kude, Satoshi, 3,681,564.

Tsunewaki, Masami: *See—*

Kosaka, Kenzo; Tsunewaki, Masami; Tanaka, Hideo; and Aoki, Akira, 3,702,055.

Tsunoda Jitensha Kabushiki Kaisha: *See—*

Tsunoda, Masashi, 3,689,969.

Tsunoda, Kenneth. Vibration-damped tubular casing. 3,695,024, 10-3-72, Cl. 57-130.000.

Tsunoda, Kiyosh: *See—*

Yamamura, Yuichi; Yoshinaga, Tetsuo; Tsunoda, Kiyosh; Tsutsumi, Yoshiatsu; and Hoji, Kazuhiko, 3,636,208.

Tsunoda, Masashi, to Tsunoda Jitensha Kabushiki Kaisha. Method of forming a claw portion of the front wheel journal fork of a bicycle. 3,689,969, 9-12-72, Cl. 29-150.000.

Tsunoda, Satoshi, to Hokushin Electric Works, Ltd. Automatic film-loading projector. 3,704,942, 12-5-72, Cl. 352-158.000.

Tsunoda, Susumu: *See—*

Umeda, Saburo; Kizuka, Tokio; Iwai, Kiyoshi; Tsunoda, Susumu; and Hayashi, Hideaki, 3,648,945.

Tsunokawa, Tamio: *See—*

Iwashita, Akira; Tsunokawa, Tamio; and Yuyama, Masahiro, 3,699,081.

Tsunoo, Shigeru; Horisaka, Kazuyoshi; Yamaguchi, Akiyuki; Adachi, Kikuo; and Umezawa, Osamu, to Kowa Company, Limited. Methods of treating hypertension. 3,658,966, 4-25-72, Cl. 424-315.

Tsurugashima-Machi, Irima-Gun: *See—*

Sakuma, Akira; Torii, Shizuo; Yanagisawa, Isamu; and Tsurugashima-Machi, Irima-Gun, 3,639,457.

Tsurugi, Akira: *See—*

Machida, Hazime; Tsurugi, Akira; Okuno, Zenjiro; and Mizuno, Akinori, 3,657,130.

Tsurugi, Kozaburo: *See—*

Watanabe, Tamotsu; Vando, Yasuo; and Tsurugi, Kozaburo, 3,693,882.

Tsuruishi, Yuki: *See—*

Aizawa, Susumu; Nakamura, Koichi; Tsuruishi, Yuki; and Oguchi, Kikuo, 3,648,453.

Tsuruishi, Yuki, to Kabushiki Kaisha Suwa Seikasha. Pawl. 3,703,838, 11-28-72, Cl. 74-575.000.

Tsurumi, Sukeo: *See—*

Yasui, Hideaki; and Tsurumi, Sukeo, 3,667,804.

Tsurumi, Sukeo. Regulating apparatus for car's window. 3,636,657, 1-25-72, Cl. 49-144.

Tsuruoka, Takashi: *See—*

Nitida, Taro; Yumoto, Hiroshi; Tsuruoka, Takashi; Hamamoto, Kazuko; Shomura, Takashi; and Ohashi, Takao, 3,678,159.

Shomura, Takashi; Ezaki, Norio; Tsuruoka, Takashi; Niwa, Tomizo; Akita, Eiichi; and Niida, Taro, 3,661,892.

Shomura, Takashi; Ezaki, Norio; Tsuruoka, Takashi; Niwa, Tomizo; Akita, Eiichi; and Niida, Taro, 3,697,648.

Tsuruoka, Tomio, to Nippon Kogaku K.K. Device for preventing double exposures in interchangeable film back type cameras. 3,641,899, 2-15-72, Cl. 95-31.

Tsuruta, Masami; Ito, Shinji; and Otsuka, Ichiro, to Mitsui Toatsu Chemicals, Incorporated. Process for producing aromatic vinyl polymer compositions. 3,694,522, 9-26-72, Cl. 260-878.00r.

Tsuruta, Motohiro; Kimura, Hiroshiro; Koshimo, Akio; Nara, Hirohisa; Goto, Tokuju; Amemiya, Kunio; and Matusaka, Hideki, to Nippon Rayon Kabushiki Kaisha (Nippon Rayon Co., Ltd.). Process for imparting high elastic recovery to extensible knitted or woven fabrics and product obtained. 3,637,427, 1-25-72, Cl. 117-138.8.

Tsuruta, Tadao, to Nippon Kogaku K.K. Holographic method of forming contour lines in an image utilizing light of limited coherence length. 3,639,030, 2-1-72, Cl. 350-3.5.

Tsuruzawa, Teruya, to Nippon Seal Co., Ltd. Cleaning-brush. 3,648,318, 3-14-72, Cl. 15-105.

Tsutsumi, Tadao: *See—*

Minami, Muneyoshi; Taniguchi, Masaharu; Tsutsumi, Tadao; Murakami, Masakazo; and Yoshii, Toshiya, 3,673,145.

Tsutsui, Nobuhiro: *See—*

Shimoda, Keitaro; Tsutsui, Nobuhiro; Sekiguchi, Hideto; and Sone, Masao, 3,673,053.

Tsutsui, Toshiaki: *See—*

Sato, Ryuichi; Harimaya, Seizi; Agata, Akihiko; Morishima, Kunio; Tsutsui, Toshiaki; and Kano, Yasuhiro, 3,637,329.

Tsutsumi, Mitsutoshi, to Kuraray Co., Ltd. Method of recovering palladium. 3,655,363, 4-11-72, Cl. 75-101.

Tsutsumi, Tadashi: *See—*

Nakagawa, Takashi; Tsutsumi, Tadashi; and Hori, Hiroo, 3,670,213.

Tsutsumi, Tadashi; and Matsuo, Takeshi, to Tokyo Shibaura Electric Co., Ltd. Semiconductor device passivated with rare earth oxide layer. 3,663,870, 5-16-72, Cl. 317-235.

Tsutsumi, Takashi: *See—*

Nakano, Minoru; Tsutsumi, Takashi; and Kadota, Tokuzo, 3,634,796.

Tsukuda, Teruhiro; and Tsutsumi, Takashi, 3,662,307.

Tsutsumi, Takashi, to Matsushita Electric Industrial Co., Ltd. Deflecting coils. 3,638,152, 1-25-72, Cl. 335-213.

Tsutsumi, Yoshiatsu: *See—*

Yamamura, Yuichi; Yoshinaga, Tetsuo; Tsunoda, Kiyosh; Tsutsumi, Yoshiatsu; and Hoji, Kazuhiko, 3,636,208.

Tsutsumi, Yoshio, to Daiichi Seiyaku Company Limited. Method for treating scours in domestic livestock. 3,692,904, 9-19-72, Cl. 424-227.000.

Tsutsumiviti, Hideo: *See—*

Miyazaki, Toshio; Omura, Etuzou; Katakabe, Kyoku; Makita, Minoru; Iwase, Kenji; Tsutsumiviti, Hideo; Yotsumoto, Takashi; Ikeda, Fumiaki; Takashima, Yoshiro; Sueyoshi, Hiromu; and Maesaka, Tomio, 3,689,620.

Tsuyama, Naoto: *See—*

Okada, Shigetaka; and Tsuyama, Naoto, 3,701,714.

Okada, Shigetaka; Tsuyama, Naoto; Kurimoto, Masahi; and Sugimoto, Kaname, 3,703,440.

Tsuyama, Setsuya: *See—*

Yazawa, Masahide; and Tsuyama, Setsuya, 3,635,633.

Tsuzuki, Akira: *See—*

Mochizuki, Yoshifumi; and Tsuzuki, Akira, 3,645,090.

Tsuzuki, Akira; and Suzuki, Choken, to Citizen Watch Co., Ltd. Calendar timepiece with month advancement mechanism for 29.30, or 31 day months. 3,673,789, 7-4-72, Cl. 58-58.000.

Tsuzuki, Katsuaki: *See—*

Takeda, Isao; Iguchi, Takashi; Tsuzuki, Katsuaki; and Nakano, Tooru, 3,658,647.

Tsuzuki, Minoru: *See—*

Yonezu, Shuzo; Tanaka, Takeshi; Tsuzuki, Minoru; and Kobayashi, Takashi, 3,652,727.

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Nifforov, Vladimir Pavlovich; Zaitsev, Vasily Nikolaevich; Khomyakov, Viktor Stepanovich; Kil, Ilya Genrikhovich; and Tsybukov, Igor Kirillovich, 3,702,815.

Tsymbal, Alexandr Gavrilovich: *See—*

Tatianko, Nikolai Vasilievich; Tsymbal, Alexandr Gavrilovich; Stetsenko, Vladimir Vasilievich; Isikov, Sergei Alexandrovich; Rodenko, Fedor Leontievich; Betcher, Alexandr Samuilovich; Shamrai, Petr Dmitrievich; Dulya, Mikhail Afanasievich; Dudka, Viktor Vailievich; Klimchuk, Ivan Petrovich; and Dolgov, Anatoly Mikhailovich, 3,664,431.

Tsy-pin, Nekhemian Veniaminovich: *See—*

- Vereschagin, Leonid Fedorovich; Yakovlev, Evgeny Nikolaevich; Konyaev, Jury Sergeevich; Polyakov, Evgeny Valentinovich; Novikov, Albert Pavlovich; Bakul, Valentin Nikolaevich; Skripko, Gely Fomich; and Tsylin, Nekhemian Veniaminovich, 3,694,177.
- Tsyplin, Vladimir Grigorievich: *See—*
- Ioffe, Vladimir Fedorovich; Roitshtein, Garri Shmilevich; Vyatskin, Iosif Yakovlevich; Tsyplin, Vladimir Grigorievich; Alexandrov, Vladimir Nikolaevich; and Semin, Gennady Gavrilovich, 3,659,070.
- Tsyrlin, Mark Irmovich: *See—*
- Khrenov, Konstantin Konstantinovich; Gursky, Pavel Ivanovich; Shulman, Grigory Alexandrovich; Klimenko, Gennady Alexeevich; Kirdo, Ivan Viktorovich; Dmitrenko, Georgy Viktorovich; Yagupov, Ivan Nikolaevich; Tsyrlin, Mark Irmovich; Novikov, Anatoly Petrovich; and Puzov, Filimon Efimovich, 3,688,382.
- Tu, George K.: *See—*
- Anderson, Stanley R.; Bryant, Richard W.; and Tu, George K., 3,684,897.
- Bryant, Richard W.; and Tu, George K., 3,648,079.
- Bryant, Richard W.; and Tu, George K., 3,656,118.
- Bryant, Richard W.; and Tu, George K., 3,679,917.
- Bryant, Richard W.; and Tu, George K., 3,685,025.
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- Tubal Industries, Inc., mesne: *See—*
- Kirchner, Myron C.; and Rosenberger, Thomas R. (said Kirchner assor. to), 3,668,362.
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- Kundo, Kishichiro; Iwata, Hiroo; Yamaguchi, Nario; Shimizu, Sakae; and Tubuko, Kazuo, 3,640,709.
- Yamaguchi, Nario; Shimizu, Sakae; and Tubuko, Kazuo, 3,671,235.
- Yamaguchi, Nario; Shimizu, Sakae; and Tubuko, Kazuo, 3,704,122.
- Yamaguchi, Nario; Shimizu, Sakae; Tubuko, Kazuo; Kondo, Kishichiro; and Iwata, Hiroo, 3,707,402.
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- Young, James L., 3,704,017.
- Tubular Structures Corporation: *See—*
- Robbins, Wayne Otto, 3,639,086.
- Tucci, Anthony G. Material folding and creasing device. 3,638,841, 2-1-72, Cl. 223-38.
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- Lewis, John C., Jr., 3,633,974.
- Lewis, John C., Jr., 3,641,610.
- Tuchen, Gerd Achim: *See—*
- Curtis, Hazen, III; and Tuchen, Gerd Achim, 3,684,993.
- Tuchen, Gerd Achim, to Bell Telephone Laboratories, Incorporated. Low profile waveguide channel diplexer. 3,668,565, 6-6-72, Cl. 333-6.000.
- Tuchiya, Masuo: *See—*
- Juna, Kiyoshi; Shinada, Noboru; and Tuchiya, Masuo, 3,691,105.
- Tucholski, Leon A., to General Motors Corporation. Vehicular transmission sump system. 3,670,499, 6-20-72, Cl. 60-54.000.
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- Ogilvy, Harry Heggie; Tuck, Elizabeth Margaret; Dobbs, David John Miller; and Rosser, John Anthony, 3,685,454.
- Tuck, William Henry: *See—*
- Webster, Joseph George; and Tuck, William Henry, 3,662,057.
- Tucker, Alvin S., to Phillips Petroleum Company. Apparatus for molding and ejecting plastic articles. 3,669,598, 6-13-72, Cl. 425-249.
- Tucker, Archie J., to Eastman Kodak Company. Mold having a slide plate for forming articles having a projection or recess. 3,679,339, 7-25-72, Cl. 425-242.000.
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- Sayigh, Adnan A. R.; Tucker, Benjamin W.; and Ulrich, Henri, 3,652,599.
- Ulrich, Henri; and Tucker, Benjamin W., 3,637,810.
- Tucker, Council A., to Natter Manufacturing Company. Inlet valve assembly for pneumatic system. 3,661,356, 5-9-72, Cl. 251-299.
- Tucker, Council A., to Scott, E. Walter. Building panel construction and securement means therefor. 3,664,073, 5-23-72, Cl. 52-127.
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- Tibbetts, Alan R.; and Tucker, Donald R., 3,672,446.
- Tucker, Eura, 25% to Sandford, Dean. Detachable wheels for boats. 3,659,868, 5-2-72, Cl. 280-47.32.
- Tucker, Hal E. Smoker's pipe with built-in gaseous fuel lighter. 3,698,400, 10-17-72, Cl. 131-186.000.
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- Tucker, Jacob S. Billfold construction. 3,651,848, 3-28-72, Cl. 150-38.
- Tucker, James I.: *See—*
- Folson, Henry J.; Lucas, Daniel R., Jr.; Staats, William A.; and Tucker, James I., 3,691,669.
- Tucker, James I., to Mattel, Inc. Adjustable trestle. 3,653,626, 4-4-72, Cl. 248-371.
- Tucker, Jasper J. Winch carrying snow grooming vehicle supported by skids and powered by an anchored drawline. 3,692,119, 9-19-72, Cl. 172-23.000.
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- Tucker, Marion K.: *See—*
- Hutchins, Everett C.; Spencer, Gary E.; and Tucker, Marion K., 3,685,923.
- Tucker, Martin: *See—*
- Cushman, Walton W., 3,639,011.
- Cushman, Walton W., 3,639,012.
- Cushman, Walton W., 3,704,026.
- Tucker, Martin; as trustee: *See—*
- Cushman, Walton W., 3,639,011.
- Cushman, Walton W., 3,639,012.
- Tucker, Oliver M. Carburetor. 3,653,643, 4-4-72, Cl. 261-56.
- Tucker, Robert V. Tobacco ash receiver. 3,698,401, 10-17-72, Cl. 131-235.000.
- Tucker, Robert W.: *See—*
- Saddler, Ivan R.; and Tucker, Robert W., 3,683,379.
- Tucker, Roger A., to Mead Corporation. The. Pallet type shipping container. 3,650,459, 3-21-72, Cl. 229-23.
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- Tucker, Virgil R.: *See—*
- Bartoe, Otto E., Jr.; Tucker, Virgil R.; and Wertz, Ronald D., 3,688,029.
- Tucker, William B., to Photocircuits Corporation. Method for making an aluminum armature. 3,648,360, 3-14-72, Cl. 29-597.
- Tucker, William Henry, to Anchor Hocking Corporation. Blank and display stand for stemware. 3,672,514, 6-27-72, Cl. 211-73.000.
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- Tuckey, Charles H.: *See—*
- Schneider, Kenneth C.; and Tuckey, Charles H., 3,690,304.
- Tuckey, Charles H.; and Schneider, Kenneth C., to Walbro Corporation. Diaphragm carburetor. 3,633,557, 1-11-72, Cl. 123-119.
- Tuddenham, William M.: *See—*
- Martin, Richard G.; Tuddenham, William M.; and Lebrizz, Joseph M., 3,691,832.
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- Width, Robert B., 3,632,958.
- Tuffias, Robert H.: *See—*
- Noar, Raymond; Tuffias, Robert H.; Gow, Kenneth P.; and Drew, Thomas A., 3,706,231.
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- Tuft, Richard A.: *See—*
- Corey, Earl E.; Tuft, Richard A.; and Woodward, Jason H., 3,706,022.
- Tuftmatic, Inc.: *See—*
- Randolph, Arthur J., 3,701,174.
- Tufts, Donald W.; Burt, Ralph E.; Davis, Victor I., Jr.; Queenan, James F.; Maloon, Richard A.; and Waterman, David W., to Sanders Associates Inc. Digital filter using weighting. 3,696,235, 10-3-72, Cl. 235-156.000.
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- Scarnato, Thomas J.; Tufts, Guy O.; Peacock, Peter J.; and Cicci, George B., 3,672,138.
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- Hattori, Kenichi; Yamakawa, Tyoji; and Tuji, Akitoshi, 3,686,133.
- Tuji, Katsuyoshi: *See—*
- Yamaguchi, Hiroyuki; Tuji, Katsuyoshi; Maki, Kenji; and Shimonishi, Isoo, 3,679,355.
- Tulagin, Vsevolod: *See—*
- Carreira, Leonard M.; and Tulagin, Vsevolod, 3,655,370.
- Reinis, Gedeminas J.; and Tulagin, Vsevolod, 3,692,518.
- Stein, Ira S.; Tulagin, Vsevolod; and Mihajlov, Vsevolod S., 3,634,221.
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- Fellwock, Charles G.; and Tuley, Donald L., 3,675,271.
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- Tull, Roger J.: *See—*
- Harmetz, Ronald; and Tull, Roger J., 3,644,380.
- Weinstock, Leonard M.; Tull, Roger J.; and Pollak, Peter I., 3,636,209.
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- Tull, Stanley W., Co., Inc.: *See—*
- Canfield, Neal R., 3,656,571.
- Tullar, Benjamin F.; and Lorenz, Roman R., to Sterling Drug Inc. 3,3,5-Trimethylcyclohexyl-alkyl-carboxylic acids. 3,682,991, 8-8-72, Cl. 260-413.000.
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- Tulley, Alan: *See—*
- Elks, Joseph; Philipps, Gordon Hanley; and Tulley, Alan, 3,665,021.
- Philipps, Gordon Hanley; and Tulley, Alan, 3,636,011.
- Tulley, Frederick T., to Ethyl Corporation. Composition and process for injection molding thermoplastic material and glass fibers. 3,644,271, 2-22-72, Cl. 260-41.
- Tullis, Lyell C.; and Moon, Richard G., to Giddings & Lewis, Inc. Power conveyor system for production lines. 3,653,489, 4-4-72, Cl. 198-110.
- Tullman, Gerald M.: *See—*
- Bachman, Gustave B.; and Tullman, Gerald M., 3,641,122.
- Tullock, Charles William: *See—*
- Bechtold, Max Fredrick; and Tullock, Charles William, 3,648,456.
- Tullos, Aubrey R.; and Creed, Leslie H. Reservoir type inking pen system. 3,644,933, 2-22-72, Cl. 346-140.
- Tullos, Aubrey R.; and Creed, Leslie H. Nested sleeve recording pen head. 3,653,070, 3-28-72, Cl. 346-140.
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- Selleck, Edward G.; Weinberg, Alfred F.; and Tully, Geoffrey R., Jr., 3,653,995.
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- Tuman, Daniel: *See—*
- Baker, Theodore H.; and Tuman, Daniel, 3,689,803.
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- Tumity, Thomas George, to Northern Electric Company, Limited. Wire wrapping tool. 3,696,482, 10-10-72, Cl. 29-33.00f.
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- Detweiler, John R., Jr.; and Tummala, Rao R., 3,640,738.
- Tummarello, Natale J. Means for mounting concrete structural members. 3,640,328, 2-8-72, Cl. 151-41.7.
- Tummes, Hans: *See—*
- Falbe, Jurgen; Tummes, Hans; and Weber, Jurgen, 3,681,465.
- Tump, Dirk: *See—*
- Rigney, William R.; Luciano, Robert A.; and Tump, Dirk, 3,654,890.
- Tunc, Deger, to Johnson & Johnson. Tobacco smoke filter. 3,661,160, 5-9-72, Cl. 131-266.
- Tunderman, William, to Deere & Company. Auger conveyor. 3,659,700, 5-2-72, Cl. 198-213.
- Tundo, Antonio: *See—*
- Boffa, Gioacchino; Crotti, Argento; Pieri, Giampiero; Mangini, Angelo; and Tundo, Antonio, 3,678,053.
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- Tune, Vincent John. Counting device. 3,662,904, 5-16-72, Cl. 214-1.
- Tung, George K. L.: *See—*
- Blake, Carl B.; and Tung, George K. L., 3,673,135.
- Tung, Stephen yi-Sun: *See—*
- Whitworth, Anthony James; Tung, Stephen yi-Sun; and Hajto, Ernest Anthony, 3,686,872.
- Whitworth, Anthony James; Lees, William Arthur; Tung, Stephen Yi-Sun; and Hajto, Ernest Anthony, 3,706,581.
- Tung, Yi: *See—*
- Hall, John B., Jr.; Tung, Yi; and Winn, Lavern E., 3,670,890.
- Tungler, Antal: *See—*
- Csuros, Zoltan; Petro, Jozsef; Mathe, Tibor; and Tungler, Antal, 3,654,111.
- Csuros, Zoltan; Petro, Jozsef; Tungler, Antal; Mathe, Tibor; and Bekassy, Sandor, 3,691,103.
- Tunick, Allen Abraham: *See—*
- Pisanchyn, John; Fuhrmann, Robert; Sifniades, Stylianos; and Tunick, Allen Abraham, 3,681,460.
- Tunney, Bernard W., Sr.: *See—*
- Osborn, George E.; and Tunney, Bernard W., Sr., 3,633,563.
- Tunstall, Don M. Sole for walking cast. 3,680,550, 8-1-72, Cl. 128-83.500.
- Tunstall, Wilfred: *See—*
- Wegner, Albert Calimesa; and Tunstall, Wilfred, 3,671,067.
- Tunze, Norbert: *See—*
- Huckstedt, Guido; and Tunze, Norbert, 3,669,883.
- Tunzini Amellorair: *See—*
- Fabre, Pierre; Giroud-Garampon Robert; Gondrand, Michel; and Raymond, Fernand, 3,695,909.
- Tunzini, Marco: *See—*
- Angst, Kurt; and Tunzini, Marco, 3,695,018.
- Tunzini-Sames: *See—*
- Fabre, Pierre, 3,659,151.
- Tholome, Roger, 3,670,961.
- Tholome, Roger, 3,706,894.
- Tuomaala, Jorma A. K., to Osakeyhtio, A. Ahlstrom. Roller. 3,676,909, 7-18-72, Cl. 29-110.000.
- Tuominen, Tapio Kalevi: *See—*
- Malmstrom, Rolf Einar; and Tuominen, Tapio Kalevi, 3,681,054.
- Tupaj, Manfred Paul; and Engert, Heinz, to Sud-Atlas-Werke G.m.b.H. Cassette tape recorder. 3,680,871, 8-1-72, Cl. 274-4.00d.
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- Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tupitsyn, Konstantin Konstantinovich; and Plavskikh, Vladimir Dmitrievich, 3,705,633.
- Tupolev, Alexei Andreevich: *See—*
- Tupolev, Andrei Nikolaevich; Tupolev, Alexei Andreevich; Cheremukhin, Georgy Alexeevich; Bliznjuk, Valentin Ivanovich; Pukhov, Alexandr Leonidovich; Svishev, Georgy Petrovich; Bjushgens, Georgy Sergeevich; and Mikeladze, Vitaly Georgievich, 3,677,502.

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Lewis, Ralph M.; Lewis, Charles T., Jr.; Tupper, George B.; and Popken, Gary D., 3,652,708.
- Tupper, Myron D.; and Hille, Arvin A., to Omark Industries, Inc. Chipper shredder. 3,674,220, 7-4-72, Cl. 241-186.00r.
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- Turbak, Albin F.: See—
Bridgeford, Douglas J.; Turbak, Albin F.; and Burke, Noel I., 3,649,346.
Bridgeford, Douglas J.; Turbak, Albin F.; and Burke, Noel I., 3,689,466.
Burke, Noel I.; Bridgeford, Douglas J.; and Turbak, Albin F., 3,666,738.
Burke, Noel I.; Bridgeford, Douglas J.; and Turbak, Albin F., 3,666,739.
O'Brien, Merrill N.; and Turbak, Albin F., 3,645,760.
Oppenheimer, Seymour; and Turbak, Albin F., 3,640,734.
Oppenheimer, Seymour; and Turbak, Albin F., 3,640,735.
Oppenheimer, Seymour; and Turbak, Albin F., 3,679,436.
Oppenheimer, Seymour; and Turbak, Albin F., 3,679,437.
Rose, Henry J.; Turbak, Albin F.; and Leahy, Thomas E., Jr., 3,653,928.
Rose, Henry J.; and Turbak, Albin F., 3,658,560.
Rose, Henry J.; and Turbak, Albin F., 3,658,561.
Rose, Henry J.; Turbak, Albin F.; and Leahy, Thomas E., Jr., 3,674,511.
Rose, Henry J.; and Turbak, Albin F., 3,674,523.
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- Turbanti, Luigi: See—
Cerbati, Guido; and Turbanti, Luigi, 3,687,955.
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Carruthers, George A., 3,705,487.
Lohrke, James L., Jr., 3,696,467.
Sholly, William C., Jr.; and Carruthers, George A., 3,705,488.
- Turbokonsult AB: See—
Kronogard, Sven-Olof; and Kronogard, Clas-Olof, 3,635,019.
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Albanese, Pietro; Benzoni, Luigi; Corain, Benedetto; and Turco, Aldo, 3,686,264.
- Turcotte, Charles A.: See—
Boggs, Weldon C.; and Turcotte, Charles A., 3,666,107.
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Revitz, Martin; and Turene, Francis E., 3,641,402.
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Fauran, Claude P.; Raynaud, Guy M.; Pourrias, Bernard M.; and Turin, Michel J., 3,634,411.
Fauran, Claude P.; Turin, Michel J.; Raynaud, Guy M.; and Gouret, Claude C., 3,658,821.
Fauran, Claude P.; Turin, Michel J.; Raynaud, Guy M.; and Pourrias, Bernard M., 3,704,305.
Raynaud, Guy M.; Fauran, Claude P.; Turin, Michel J.; Pourrias, Bernard M.; and Huguot, Gerard J., 3,696,100.
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Hawkes, Joseph S.; and Turk, David L., 3,650,865.
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Steffen, Jurg; and Hofer, Arnold, 3,656,988.
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Dornseiffen, Josephus D., 3,665,962.
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Chopra, Sohinder Nath; and Turmel, Hilaire Marcel, 3,695,990.
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Sloan, Albert Everett; and Turnbull, Alistair Gordon, 3,699,416.
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Marshall, John Stephen; and Turnbull, William S., 3,640,066.
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Wunsche, Edgar; Turner, Alfred H.; and Durdin, Lewis H., 3,686,421.
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Wiley, Daniel E.; Mc Dougal, Harmon A.; and Turner, Allan L., 3,642,053.
Wiley, Daniel E.; McDougal, Harmon A.; and Turner, Allan L., 3,707,182.
- Turner, Allen H.: See—
Colvin, Alex D.; McNitt, David H.; and Turner, Allen H., 3,679,930.
Smith, Arthur G.; and Turner, Allen H., 3,679,572.
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Coker, Lowell E.; and Turner, Almerin W., 3,654,087.
Coker, Lowell E.; and Turner, Almerin W., 3,654,088.
Coker, Lowell E.; and Turner, Almerin W., 3,654,089.
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Darling, Thomas W., 3,640,929.
Heron, Gordon F., 3,660,148.
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LIST OF PATENTEEES

1975

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White, Richard M.; Lee, Robert E.; and Turner, Charles W., 3,673,474.
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Koontz, Donald Eldridge; Schoenberg, Leonard Norman; and Turner, Dennis Robert, 3,654,095.
Newby, Kenneth Russ; and Turner, Dennis Robert, 3,700,569.
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Murdoch, Kenneth E.; and Turner, Donald B., 3,696,948.
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Turner, David, 3,655,114.
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Selsor, James Quinn; Turner, Edward Wayne; and Goldberg, Bruce Saul, 3,696,061.
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Turner, Harold Roy, 3,641,838.
Turner, Harold Roy, 3,663,056.
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Naarup, Wayne D.; and Turner, Martin E., 3,681,948.
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English, Alan Taylour; and Turner, Paul Anthony, 3,676,214.
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McNamara, James Francis; and Turner, Richard Ellis, 3,702,658.
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Harris, Julian Taylor; and Turner, Thomas Adkins, 3,697,974.
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O'Neill, William P.; and Turner, Walter V., Jr., 3,642,953.
- Turner, Warren E.: See—
Dreibelbis, Richard C.; and Turner, Warren E., 3,642,176.
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Aldridge, David Cecil; Broadbent, Douglas; Hemming, Harold George; Turner, William Brian; and Bent, Keith Joseph, 3,661,935.
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Cutler, Leonard S.; Holloway, Joseph H.; and Turner, Wilson R., 3,675,149.
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Lacey, Richard F.; Cutter, Leonard S.; and Turner Wilson S., 3,670,171.
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Evgrafov, Boris Ivanovich; Kupeev, Jury Alexandrovich; and Turok, Galina Iosifovna, 3,684,944.
- Turowski, Else Paula Maria: *See—*
Buffleb, Herbert; Franck, Heinz-Gerhard; Turowski, Johannes; Collin, Gerd; and Zander, Maximilian, 3,704,331.
- Turowski, Johannes: *See—*
Buffleb, Herbert; Franck, Heinz-Gerhard; Oberkobusch, Rudolf; Turowski, Johannes; Collin, Gerd; and Zander, Maximilian, 3,655,802.
- Buffleb, Herbert; Franck, Heinz-Gerhard; Turowski, Johannes; Collin, Gerd; and Zander, Maximilian, 3,704,331.
- Franck, Heinz-Gerhard; Oberkobusch, Rudolf; Turowski, Johannes; Collin, Gerd; Zander, Maximilian; Erunlu, Recep Kemalettin; Storch, Gunter; Buffleb, Herbert; and Sauerland, Hans-Dieter, 3,636,178.
- Ruhl, Karl; Franck, Heinz-Gerhard; and Turowski, Johannes, 3,641,166.
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Leezer, James R.; Reid, Francis R.; Turpin, Charles H.; and Rejsa, Jack J., 3,669,346.
- Turpin, Charles Henry; and Ryan, John A., to Pillsbury Company, The. Apparatus for scoring fiber cans. 3,668,981, 6-13-72, Cl. 93-36.50.
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Ducrot, Alain Jean Edmond; Poulain, Jacques Constant; Pavon, Miguel Sancho; and Turpin, Michel Louis, 3,694,333.
- Turpin, Pierre: *See—*
Laucomnet, Robert; and Turpin, Pierre, 3,679,315.
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- Turshen, Richard S.: *See—*
Gardel, Robert; Gorsky, Egon; and Turshen, Richard S., 3,636,653.
- Turteltaub, Max, to Thomson-CSF. Parasitic mode suppressor. 3,634,790, 1-11-72, Cl. 333-82.
- Turton, Cecil Nigel: *See—*
Dixon, David Rodney; Rose, John Brewster; and Turton, Cecil Nigel, 3,671,486.
- Turton, Frank Arnold: *See—*
Campbell, David Neil; and Turton, Frank Arnold, 3,704,598.
- Campbell, David Neil; and Turton, Frank Arnold, 3,704,601.
- Turunen, Olli: *See—*
Tammela, Viljo; and Turunen, Olli, 3,649,341.
- Turzillo, Lee A. Means for stabilizing structural layer overlying earth materials in situ. 3,685,303, 8-22-72, Cl. 61-63.000.
- Turzillo, Lee A., to Marathon Oil Company. Method and means for producing pile or like structural columns in situ. 3,690,109, 9-12-72, Cl. 61-53.640.
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Shiba, Keisuke; Ohi, Reiichi; Sugiyama, Masatoshi; Ohhashi, Azusa; and Tusbota, Motoniko, 3,658,547.
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Padalino, Joseph J.; and Tuszynski, Alfons A., 3,668,560.
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Tanaka, Kazuo; Kanayama, Toshihiko; Yasuda, Tetuya; Tutiya, Hidetaka; Kikuchi, Yoshio; and Muto, Takeo, 3,659,413.
- Yasuda, Tetuya; Tutiya, Hidetaka; and Mori, Takeshi, 3,672,150.
- Tutiya, Yosinori: *See—*
Amano, Hiroyuki; Tsuji, Nobuo; Miyazako, Takushi; Shirasu, Kazuo; and Tutiya, Yosinori, 3,650,752.
- Tuttle, Edward G.: *See—*
Decker, Charles L.; and Tuttle, Edward G., 3,670,277.
- Tuttle, Gary G.; and Klick, Douglas H. Multi patient dental instruction console. 3,690,008, 9-12-72, Cl. 32-71.000.
- Tutt, Kingsley J.: *See—*
Robbins, John E.; Willbond, William F.; Tutt, Kingsley J.; Hall, Dennis S.; and Hanson, Raymond, 3,663,139.
- Tutt, Richard D., to Lear Siegler, Inc. Air distributing apparatus. 3,696,731, 10-10-72, Cl. 98-41.000.
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Tuttle, Fordyce E., 3,634,674.
- Tuttle, Fordyce E., 3,688,666.
- Tuttle, Fordyce E., 3,701,990.
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Davidson, George L.; and Beltramo, Renaldo M., 3,662,175.
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Deverse, Frank T.; Kurtz, John A.; Rendon, Daniel; Trahn, Kenneth A.; and Tuttle, James W., 3,699,917.
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Frankeny, Richard F.; and Tuttle, Joey K., 3,675,133.
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- Tuttle, Ralph W.: *See—*
Tuttle, Floyd W.; and Tuttle, Ralph W., 3,703,932.
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Warnecke, Herbert, 3,701,455.
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Grunwald, Eduard; and Tuymer, Walter J., 3,661,295.
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Tveter, Elmer C.; and Surls, Joseph P., 3,635,671.
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- Tweed, Horace A., Jr., to Sylvania Electric Products, Inc. Adapter for converting an AM radio receiver into a citizens band channel 9 transceiver. 3,665,310, 5-23-72, Cl. 325-21.000.
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Kafka, Robert S., 3,635,649.
- Tweeddale, Helen Joan: *See—*
Culvenor, Claude Charles Joseph; Edgar, John Alexander; Smith, Leslie Walter; Tweeddale, Helen Joan; Jago, Marjorie; and French, Eric Ancelot, 3,705,905.
- Tweedie, Ellsworth: *See—*
Reynolds, Frank L.; Langer, Alfred C.; and Tweedie, Ellsworth, 3,690,704.
- Tweedy, Robert Hugh: *See—*

- Wittren, Richard Arthur; Meysenburg, Raymond Richard; and Tweedy, Robert Hugh, 3,667,504.
- Tweet, Ole E.: *See—*
Boehm, Kurt B.; Foster, Leslie W.; and Tweet, Ole E., 3,688,856.
- Tweit, Robert C.: *See—*
Kreider, Eunice M.; and Twit, Robert C., 3,679,697.
- Twentieth Century Products Corporation: *See—*
Kamphausen, Dan, 3,701,169.
- Twidall, William H.; and Byrnes, Mark K., to Massey-Ferguson Industries Limited. Deflector arrangement for single or double window laying, convertible table for swathers. 3,695,015, 10-3-72, Cl. 56-181.000.
- Twiflex Couplings Limited: *See—*
Chapman, Charles Wallace, 3,650,124.
- Twiford, Richard L.: *See—*
Tobey, Hubert E.; Moller, George O.; and Twiford, Richard L., 3,695,411.
- Twilley, Ian C.: *See—*
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Seiford, Donald S., Sr.; and Seiford, Robert R., 3,691,974.
- Twin Disc, Incorporated: *See—*
Arnold, Bruce C.; Auman, John T., Jr.; Kinnison, Charles G.; and Lantz, James E., 3,692,157.
- Aschauer, George R.; and Ritenour, Paul E., 3,680,315.
- Condon, William T.; and Meli, Joseph P., 3,662,567.
- Hilpert, Conrad R., 3,692,160.
- Schneider, Raymond C., 3,677,003.
- Schneider, Raymond C.; and Mayer, Robert W., 3,680,398.
- Snoy, Joseph B.; and White, Basil, 3,631,953.
- Snoy, Joseph B.; and Shull, Bradford K., 3,651,904.
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- Twin-Orb, Corporation: *See—*
Shiplov, George J., 3,680,266.
- Twine, Kenneth Frederick C., to International Computers Limited. Web feeding apparatus. 3,698,611, 10-17-72, Cl. 226-50.000.
- Twinpak Ltd.: *See—*
Finkel, Henry, 3,653,148.
- Twist, Douglas: *See—*
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- Twist, Douglas, to Pilkington Brothers Limited. Tongs for suspending glass sheets. 3,655,233, 4-11-72, Cl. 294-118.
- Twittenhoff, Hansjoachim: *See—*
Meyer, Heinz; Schmid, Dieter; Schwarzer, Hans; and Twittenhoff, Hansjoachim, 3,644,612.
- Twomey, Marilyn A.: *See—*
Dotson, Billy R.; Schrader, Robert W.; Twomey, Marilyn A.; and Williams, Robert F., Jr., 3,705,148.
- Twyford, Robert H., to Ultronic Systems Corporation. Information verification system and digital data input unit. 3,702,987, 11-14-72, Cl. 340-172.500.
- Twyford, Robert H., to Mechanical Enterprises Incorporated. Coding keyboard and electrical switch therefor. 3,707,611, 12-26-72, Cl. 200-211.000.
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Countryman, Albert J., 3,633,633.
- Tyabirdin, Vladimir Vasilievich: *See—*
Fedorenko, Anatoly Stepanovich; Mescheryakov, Jury Alexeevich; Prytkov, Alexandr Alexandrovich; and Tyabirdin, Vladimir Vasilievich, 3,688,148.
- Tyas, Karl: *See—*
Firestein, Harry; and Tyas, Karl, 3,661,103.
- Firestein, Harry; and Tyas, Karl, 3,672,313.
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- Tybus, Frank W. Close tolerance pipe apparatus. 3,677,666, 7-18-72, Cl. 417-424.000.
- Tyco Industries, Inc.: *See—*
Dennis, Gene Patrick; and Lai, Cheng Ying, 3,651,764.
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- Tyco Laboratories, Inc.: *See—*
Cocks, Franklin H., 3,703,367.
- La Belle, Harold E., Jr.; and Cronan, Charles J., 3,687,633.
- Labelle, Harold E., Jr.; and Mlavsky, Abraham I., 3,650,703.
- Labelle, Harold E., Jr.; and Little, William T., 3,701,636.
- Mermelstein, Seymour, 3,661,045.
- Mermelstein, Seymour, 3,696,471.
- Mermelstein, Seymour, 3,699,819.
- Tyee Construction Company: *See—*
Fikse, Tyman H., 3,674,157.
- Rochon, Donald J.; and Sargent, Ellsworth B., 3,648,850.
- Tygielski, Ralph E.: *See—*
Frey, Alexander H., Jr.; Schlosburg, Burton E.; and Tygielski, Ralph E., 3,648,237.
- Tylan Corporation: *See—*
- Drexel, Charles F., 3,650,151.
- Drexel, Charles F., 3,650,505.
- Tyler, Allen L.: *See—*
Studenick, David K.; Tyler, Allen L.; and Squillari, Walter, 3,698,667.
- Tyler, Burtis M.: *See—*
Nolte, William C.; and Tyler, Burtis M., 3,691,642.
- Tyler, Derek E.: *See—*
Pryor, Michael J.; Shapiro, Stanley; Tyler, Derek E.; and Shabarack, John, 3,676,088.
- Tyler, Henry W. Display rack for tape cartridges. 3,644,009, 2-22-72, Cl. 312-117.
- Tyler, Hugh J.: *See—*
Willson, James R.; Krueger, Keith T.; Tyler, Hugh J.; and Jackson, Wilbur F., 3,634,803.
- Tyler, Hugh J., to Robertshaw Controls Company. Hot wire relay type devices and methods of maintaining or producing such devices. 3,684,994, 8-15-72, Cl. 337-140.000.
- Tyler, Hugh J., to Robertshaw Controls Company. Actuating device employing a heat expansible wire. 3,691,499, 9-12-72, Cl. 337-123.000.
- Tyler, Norvel P. Telephone system including atmospheric pressure telemetering means. 3,697,694, 10-10-72, Cl. 179-2.00r.
- Tyler, Tommy N., to Honeywell Inc. Alphanumeric printing device employing magnetically positionable particles. 3,633,720, 1-11-72, Cl. 197-1.
- Tyler, Victor M., II; Beaudette, Charles G.; and Chertok, Allan B., to EG & G, Inc. Listing verification system. 3,662,339, 5-9-72, Cl. 340-146.2.
- Tyler, Virgil E. Slip joint nut wrench. 3,668,950, 6-13-72, Cl. 81-98.000.
- Tyler, W. S., Incorporated: *See—*
Hubach, Louis E.; and Gardner, Edgar E., 3,666,277.
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- Tylius, Adolfo, to Alvic Development Corporation, mesne. Buildings. 3,656,266, 4-18-72, Cl. 52-30.
- Tylka, John, Sr. Lens system for color photography. 3,639,040, 2-1-72, Cl. 350-193.
- Tylko, Jozef Kazimierz; and Heanley, Charles Peter. Device for dispersing particulate material upon a moving surface. 3,695,762, 10-3-72, Cl. 356-36.000.
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Jindra, Karel; Pavlik, Kamil; Kas, Josef; Kocian, Zdenek; Hanjs, Vaciv; and Tyls, Jaroslav, 3,681,907.
- Tymkewicz, John. Thermocouple connector construction. 3,652,976, 3-28-72, Cl. 339-184.
- Tymons, Bryan John: *See—*
Cooper, Paul Neville; and Tymons, Bryan John, 3,707,632.
- Tynan, Edward J.: *See—*
Sciaolino, Frank C.; Routien, John B.; Tynan, Edward J.; and Celmer, Walter D., 3,655,876.
- Tyndall, R. B.: *See—*
Wise, David F.; Tyndall, R. B.; and Jones, Donald E., 3,701,240.
- Typagraph Corporation: *See—*
Kurata, George Y., 3,646,571.
- Typitsin, Konstantin Konstantinovich: *See—*
Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Typitsin, Konstantin Konstantinovich; Klimashko, Vladimir Vasilievich; and Plavskikh, Vladimir Dmitrievich, 3,651,874.
- Typrowicz, Wladyslaw: *See—*
Kamborian, Jacob S.; Typrowicz, Wladyslaw; and Anderson, Gordon S., 3,668,728.
- Typrowicz, Wladyslaw, to Kamborian, Jacob S. Machine for feeding the curved periphery of a work-piece past a work station. 3,653,087, 4-4-72, Cl. 12-20.
- Tyree, Lewis, Jr. Apparatus for making solid carbon dioxide. 3,632,271, 1-4-72, Cl. 18-12.
- Tyree, Lewis, Jr. Method and system for making CO₂ snow. 3,660,985, 5-9-72, Cl. 62-10.
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Joyce, Arthur B., 3,631,937.
- Tyson, Clayton L.: *See—*
Eminger, Robert J.; and Tyson, Clayton L., 3,631,591.
- Tyson, David Z.; Hunter, Edward E.; and Best, Willie Herman, to Goodyear Tire & Rubber Company, The. Dryer or heater with shielding means. 3,643,342, 2-22-72, Cl. 34-48.
- Tyson, Graham Roland: *See—*
Medding, Reuben; and Tyson, Graham Roland, 3,647,123.
- Tyson, Henry K.; and Wikelski, Karl W., to Dart Industries, Inc. Resilient connecting means. 3,670,630, 6-20-72, Cl. 92-129.000.

- Tyson, Henry K.; and Butler, Albert Q., to Dart Industries Inc. Pop-pet and valve assembly. 3,670,766, 6-20-72, Cl. 137-515.500.
- Tyson, John Anthony, to Bell Telephone Laboratories, Incorporated. Superconducting quantum rate gyro device for detecting rotation. 3,657,927, 4-25-72, Cl. 73-505.
- Tyson, Thomas L.; and Craze, Edward G., Jr., to Texaco Inc. Heat exchange structure for a hot air heater. 3,662,736, 5-16-72, Cl. 126-91.
- Tyssee, Donald A.; and Petrovich, John P., to Monsanto Company. Preparation of azepine derivatives. 3,635,951, 1-18-72, Cl. 260-239.
- Tyssee Donald A.; and Petrovich, John P., to Monsanto Company. Conversion of oxepane to hexamethylenimine. 3,635,952, 1-18-72, Cl. 260-239.
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- Tyszkiewicz, Stefan Eugene. Staplers. 3,680,759, 8-1-72, Cl. 227-120.000.
- Tytel, Bernard, to Award International, Inc. Inflatable wading pool or like article. 3,631,544, 1-4-72, Cl. 4-172.
- Tytell, Alfred A.: See—
Lampson, George P.; Tytell, Alfred A.; Field, Arthur K.; and Hilleman, Maurice R., 3,666,646.
- Tzakis, George J.: See—
Hepner, Charles F.; and Tzakis, George J., 3,701,843.
- Tzavaras, Alexander A., to Republic Steel Corporation. Controlled solidification of cast structures by controlled circulating flow of molten metal in the solidifying ingot. 3,693,697, 9-26-72, Cl. 164-51.000.
- Tzentia, Leonidas S., to Dow Badische Company. Wet spinning non-circular polyacrylonitrile fibers by utilizing circular orifices and sequential coagulation. 3,706,828, 12-19-72, Cl. 264-182.000.
- Uano, Shinkichi. Corporation cock fastening arrangement. 3,638,906, 2-1-72, Cl. 251-145.
- Uarco Incorporated: See—
Peterson, Charles L., 3,672,551.
- Steidinger, Donald J.; and Koepke, Donald H., 3,678,851.
- Uba, Toshio: See—
Stark, Robert E.; and Uba, Toshio, 3,706,617.
- Ube Industries Ltd.: See—
Fujino, Kiyoshi; Otsuka, Shigenobu; Kaichi, Tetuo; Sugiyama, Takaharu; and Tamura, Koji, 3,693,385.
- Ishii, Takami; Sugiyama, Shotaro; and Takikawa, Naohisa, 3,687,898.
- Iwai, Tadashi; Yamashina, Hisao; Takagi, Tettsu; and Adachi, Shoichi, 3,697,386.
- Masaki, Mitsuo; Fukui, Kiyoshi; Ueda, Masahiro; and Okimoto, Kiyomi, 3,687,938.
- Masaki, Mitsuo; Fukui, Kiyoshi; Kuramasu, Tetsuro; and Ueda, Masahiro, 3,700,656.
- Moritani, Ichiro; and Fujiwara, Yuzo, 3,674,884.
- Nakase, Yoshiaki; Yoshida, Masaru; Ito, Akihiko; and Okamura, Seizo, 3,652,436.
- Sekiguchi, Takashi; Tokiura, Shohei; Ogihara, Sadahide; Yamamoto, Rokuro; and Ikeuchi, Akihiro, 3,638,824.
- Sugiyama, Shotaro; and Ishii, Takami, 3,639,347.
- Sugiyama, Shotaro; Ueno, Haruo; Ishikawa, Hideo; Yano, Takefumi; and Shimamura, Tuneso, 3,644,320.
- Suzukawa, Yuichi; Kono, Hisashi; Terai, Kenji; Kuribayashi, Atushi; and Niwa, Takazumi, 3,661,973.
- Takayanagi, Motowo; Sugiyama, Shotaro; Matsuura, Tetsuro; Ueno, Haruo; Tsuji, Keichi; Yamamoto, Shinzi; and Matsumoto, Fuminori, 3,644,585.
- Yamada, Keisho; Nagai, Shigeki; Odan, Kyoji; Nakamura, Yasuo; and Hidaka, Mikio, 3,636,066.
- Yamada, Keisho; Nagai, Shigeki; Odan, Kyoji; Nakamura, Yasuo; and Hidaka, Mikio, 3,641,100.
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- Uber, Jay J.; and Dirks, Johan F. Sensitizable coated paper sheet adapted for photoelectrostatic reproduction. 3,697,267, 10-10-72, Cl. 96-1.800.
- Uberbacher, Edward C., to International Business Machines Corporation. Multi-contact electrical connector assembly. 3,686,617, 8-22-72, Cl. 339-49.00r.
- Uberhagen, Fritz: See—
Tronnier, Albrecht; Eggert, Joachim; and Uberhagen, Fritz, 3,642,351.
- Ubersax, Richard W.; and Truhan, Andrew. Disposable blood test device. 3,672,351, 6-27-72, Cl. 128-2.00g.
- UCB (Union Chimique-Chemische Bedrijven) S.A.: See—
Arad, Yael; Levy, Moshe; Miller, Israel R.; and Vofsi, David, 3,649,666.
- Arad, Yael; Levy, Moshe; and Vofsi, David, 3,686,269.
- Arad, Yael; Levy, Moshe; and Vofsi, David, 3,686,270.
- UCB, Societe Anonyme: See—
Pottiez, Fernand; and Verbeest, Raphael, 3,664,930.
- Van Gysel, August B. M.; and Colle, Jan E. F., 3,637,793.
- Weyens, Ernest, 3,642,829.
- Zivkovic, Dusan, 3,661,927.
- Uchida, Akinari: See—
Ogawa, Hiroshi; Yamane, Sigeto; Nakagawa, Hisasi; and Uchida, Akinari, 3,672,355.
- Uchida, Atsuyoshi; and Miyata, Yoshihiko, to Hitachi, Ltd. Method of manufacturing color picture tube. 3,670,376, 6-20-72, Cl. 29-25.170.
- Uchida, Eizaburo: See—
Munekata, Takashi; and Uchida, Eizaburo, 3,669,998.
- Uchida, Eizaburo: See—
Aoki, Katsumichi; Uchida, Eizaburo; Shinoda, Kiichi; and Shida, Takafumi, 3,663,704.
- Uchida, Hideho: See—
Miyamoto, Haruo; Uchida, Hideho; and Uehara, Masaru, 3,674,621.
- Uchida, Hiromu; Umezono, Akimi; Saito, Takao; and Enari, Tsutomu, to Fuji Iron & Steel Co., Ltd. Metal materials suitable for organic coating. 3,671,205, 6-20-72, Cl. 29-195.000.
- Uchida, Hiroshi: See—
Araki, Michio; Uchida, Hiroshi; and Kotera, Yoshihide, 3,657,351.
- Matsui, Isamu; Nagasawa, Isao; Horiuchi, Tatsuo; Uchida, Hiroshi; and Uehara, Masao, 3,687,382.
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- Uchida, Koji; and Kuriu, Sadao, to Mitsubishi Paper Mills, Ltd. Method for retouching an electrophotographic offset master plate. 3,697,304, 10-10-72, Cl. 117-37.00r.
- Uchida, Kozo; Nakaya, Naohisa; and Suzuki, Koji, to Iwatsu Electric Co., Ltd. Automatic synchronizing systems for sampling devices. 3,633,066, 1-4-72, Cl. 315-19.
- Uchida, Kozo, to Iwasaki Tsushinki Kabushiki Kaisha; a/k/a Iwatsu Electric Co., Ltd. Integrating network using at least one D-C amplifier. 3,667,055, 5-30-72, Cl. 328-127.000.
- Uchida, Kozo; and Tsuji, Toshiyuki, to Iwasaki Tsushinki Kabushiki Kaisha; a/k/a Iwatsu Electric Co., Ltd. Signal switching circuit operable in response to a voice signal. 3,671,673, 6-20-72, Cl. 179-1.0cv.
- Uchida, Kozo, to Iwasaki Tsushinki Kabushiki Kaisha; a/k/a Iwatsu Electric Co., Ltd. Pulse generator for fast rise-time pulses. 3,676,708, 7-11-72, Cl. 307-263.000.
- Uchida, Masakatsu: See—
Adachi, Toshio; Funakiso, Sayoko; Furuya, Akio; and Uchida, Masakatsu, 3,700,624.
- Furuya, Akio; Hayashi, Masaaki; Nagami, Kouichi; Uchida, Masakatsu; Nishino, Sakae; Asada, Toshikatsu; Nagao, Yasuo; Matsuda, Hiroyoshi; and Tsuchiya, Harufumi, 3,689,446.
- Uchida, Michio, to Ricoh Co., Ltd. On-off servomechanism controlled by a wheat stone bridge. 3,697,849, 10-10-72, Cl. 318-674.000.
- Uchida, Mitsuo; Iketani, Tadanao; and Mitani, Naoyuki. Apparatus for controlling a mass flow rate of liquid in a chemical process. 3,692,048, 9-19-72, Cl. 137-403.000.
- Uchida, Miyoji: See—
Kusuno, Hideaki; Uchida, Miyoji; Segawa, Masahiro; and Kawakami, Yukichika, 3,642,684.
- Uchida, Moriya: See—
Hara, Shigeyoshi; Senoo, Masao; Yoshida, Tsunemasa; and Uchida, Moriya, 3,647,762.
- Uchida, Naotake: See—
Shirai, Yoshihiro; Ichikawa, Hirohiko; Yoshida, Akira; Uchida, Naotake; Tsuji, Masaru; and Matsumoto, Zenji, 3,676,365.
- Uchida, Naoya; Ohmachi, Yoshiro; and Niizeki, Nobukazu, to Nippon Telegraph and Telephone Public Corporation. Arrangement for acousto-optical light deflection. 3,661,441, 5-9-72, Cl. 350-149.
- Uchida, Naoya; Ohmachi, Yoshiro; Niizeki, Nobukazu; Miyazawa, Shintaro; and Iwasaki, Hiroshi, to Nippon Telegraph and Telephone Public Corporation. Di-lead molybdate ultrasonic light deflector. 3,671,103, 6-20-72, Cl. 350-149.000.
- Uchida, Shinzi; Nishizawa, Hiroshi; and Sone, Yasuo, to Hitachi Chemical Company, Ltd. Novel copolymers of α -amino acid-N-carboxylic anhydride with organic isocyanates and process for preparing the same. 3,655,628, 4-11-72, Cl. 260-77.5.
- Uchida, Teiji: See—
Kitano, Ichiro; Koizumi, Ken; Matsumura, Hiroyoshi; Ikeda, Koji; and Uchida, Teiji, 3,658,407.
- Uchida, Teiji; and Furukawa, Motoaki, to Nippon Selfoc Company, Limited; c/o Nippon Electric Company, Limited. Multiplexed optical communication system. 3,633,034, 1-4-72, Cl. 250-199.
- Uchida, Teiji; and Furukawa, Motoaki, to Nippon Selfoc Company, Limited; c/o Nippon Electric Company, Limited. Multiplexed optical communications system. 3,633,035, 1-4-72, Cl. 250-199.
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- Uchida, Teiji; Shogo, Washio; and Tatsumi, Ryuji, to Nippon Electric Company, Limited. Optical pumping device for solid state laser. 3,634,777, 1-11-72, Cl. 331-94.5.

- Uchida, Teiji; Yoshikawa, Shogo; and Ueki, Atsufumi, to Nippon Electric Company, Limited. Optical higher harmonic generator with temperature effecting phase matching. 3,644,842, 2-22-72, Cl. 331-94.5.
- Uchida, Teiji, to Nippon Selfoc Company Limited. Multi-terminal optical cable utilizing a flexible graded optical fiber. 3,663,822, 5-16-72, Cl. 250-217.
- Uchida, Unosuke: See—
Oshima, Keiji; Yamada, Shozo; Sakurai, Fujio; Iwasa, Yoshisuke; Horiuchi, Koichi; Uchida, Unosuke; Nomura, Teruhiko; and Tominaga, Yasushi, 3,699,203.
- Uchida, Yasuo: See—
Ohfuka, Toshio; Sato, Hideo; and Uchida, Yasuo, 3,686,019.
- Uchida, Yasuo; and Akimoto, Hideo, to Konishiroku Photo Industry Co., Ltd. Warning indicator apparatus for use in a camera having a flash discharge device contained therein. 3,651,372, 3-21-72, Cl. 315-134.
- Uchida, Yasuo; and Kuroyanagi, Yoshitaka, to Konishiroku Photo Industry Co., Ltd. Automatic exposure control system for a single lens reflex camera. 3,691,917, 9-19-72, Cl. 95-10.0po.
- Uchimaru, Fumihiko: See—
Abe, Hiroshi; Shigeta, Yukio; Uchimaru, Fumihiko; Okada, Seizaburo; and Kosasayama, Akira, 3,646,031.
- Uchimoto, Tsutomu, to Shionogi & Co., Ltd. Novel dioximes and processes for preparing the same. 3,661,977, 5-9-72, Cl. 260-482.
- Uchino, Koichi; and Inomata, Hiroshi, to Hitachi, Ltd. Atomic absorption photometer. 3,680,960, 8-1-72, Cl. 356-87.000.
- Uchino, Masahiro: See—
Chauvin, Yves; Lefebvre, Gilles; and Uchino, Masahiro, 3,655,810.
- Uchio, Hakaru: See—
Aso, Chuji; Kunitake, Toyoki; and Uchio, Hakaru, 3,642,757.
- Uchiomi, Tatsuro; and Nakano, Goro, to Tokyo Shibaura Electric Co., Ltd. Automatic lamp filament-transferring equipment. 3,692,194, 9-19-72, Cl. 214-1.0bh.
- Uchiyama, Hiromichi: See—
Shimano, Akira; Maki, Shin; Ohyama, Katsuzi; and Uchiyama, Hiromichi, 3,650,542.
- Uchiyama, Hiromichi; and Inoue, Naohiko, to Nissan Motor Company, Limited. Vehicle power steering control device. 3,690,400, 9-12-72, Cl. 180-79.20r.
- Uchiyama, Noboru: See—
Ariyoshi, Yasuo; Yamatani, Tetsuo; Uchiyama, Noboru; and Sato, Naotake, 3,678,026.
- Uchiyama, Ryoji, to Maruyama Mfg. Co., Ltd. High pressure pump. 3,652,188, 3-28-72, Cl. 417-511.
- Uchiyama, Sei; Kaku, Eiichi; Kobayashi, Masahiro; Zoda, Takamichi; and Fujimoto, Shunsaku, to Toyo Boseki Kabushiki Kaisha. Method and apparatus for spreading or dividing yarn, tow or the like. 3,657,871, 4-25-72, Cl. 57-34.
- Uchiyama, Takashi: See—
Yazaki, Mutsunobu; and Uchiyama, Takashi, 3,633,476.
- Uchiyama, Takashi, to Canon Inc. Indicator for flash light photography. 3,643,564, 2-22-72, Cl. 95-10.
- Uchiyama, Takashi; Ito, Tadashi; and Matsuda, Mutsuhide, to Canon Kabushiki Kaisha. Photographing system for use with a flash device. 3,675,547, 7-11-72, Cl. 95-10.0ct.
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Michelon, Robert, 3,692,086.
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- Uda, Yuhnosuke: See—
Itoh, Yuhnosuke; Miki, Masataka; Nishiyama, Makoto; Uda, Yuhnosuke; and Terashima, Masaaki, 3,682,469.
- Udagawa, Tsugio: See—
Araya, Takeshi; and Udagawa, Tsugio, 3,693,858.
- Udaloff, Nicholas N.: See—
Jaekle, William M.; Garin, Paul V.; Thomford, William E.; Greb, Wallace M.; and Udaloff, Nicholas N., 3,661,098.
- Uddeholms Aktiebolag: See—
Eriksson, Per-Olof; and Borsum, Finn, 3,643,903.
- Holm, Kurt Anders; Hansson, Rune Einar; and Berglund, Bengt Gunnar, 3,656,492.
- Jakenberg, Klas-Erik, 3,660,174.
- Jakenberg, Klas-Erik, 3,702,268.
- Udden, Per Edward Carl: See—
Nilsson, Marit Gunnel Matilda; Udden, Ruth Gunvor Anna Britt; Udden, Per Edward Carl; and Wennerblom, Bengt Axel, 3,654,929.
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Nilsson, Marit Gunnel Matilda; Udden, Ruth Gunvor Anna Britt; Udden, Per Edward Carl; and Wennerblom, Bengt Axel, 3,654,929.
- Uddgren, Gunnar Nils. Film holding device. 3,644,038, 2-22-72, Cl. 355-71.
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McKee, Herbert A.; Kensil, Charles E.; and Udell, Walter B., 3,680,156.
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- Udovenchik, Vasily Semenovich: See—
Vzyatyshev, Viktor Feodosievich; Rozhkov, German Danilovich; Ryabov, Boris Ivanovich; and Udovenchik, Vasily Semenovich, 3,683,299.
- Udy, Lex L.: See—
Clay, Robert B.; Cook, Melvin A.; and Udy, Lex L., 3,660,181.
- Cook, Melvin A.; and Udy, Lex L., 3,658,607.
- Udylite Corporation, The: See—
Becking, Donald H., 3,694,328.
- Brown, Henry; and Tomaszewski, Thaddeus W., 3,658,488.
- Brown, Henry, 3,663,378.
- Brown, Henry, 3,676,308.
- Brown, Henry; and Tomaszewski, Thaddeus W., 3,677,907.
- Brown, Henry; and Tomaszewski, Thaddeus W., 3,687,824.
- Buckley, Edward Z., 3,664,944.
- Clauss, Richard J., 3,664,933.
- Clauss, Richard J.; and Adamowicz, Norman C., 3,689,380.
- Fuchs, Charles F.; and Brown, Henry, 3,639,220.
- Galloway, James H., 3,648,078.
- Jessup, Richard J., 3,674,673.
- Juve, Robert J., 3,674,127.
- Minbiole, Louis J., Jr.; Clark, Chester G.; and Neumann, John W., 3,664,354.
- Tomaszewski, Thaddeus W.; and Tomaszewski, Lillie C., 3,666,636.
- Tomaszewski, Thaddeus W., 3,672,970.
- Zellmer, Lynn R., 3,668,477.
- Uebe, Rudolf: See—
Herwig, Walter; and Uebe, Rudolf, 3,637,898.
- Weissmer, Klaus; Uebe, Rudolf; and Herwig, Walter, 3,652,484.
- Weissmer, Klaus; Uebe, Rudolf; and Pfister, Horst, 3,673,144.
- Uebe, Rudolf; and Brinkmann, Ludwig, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Thermoplastic moulding compositions on the basis of saturated polyesters. 3,663,498, 5-16-72, Cl. 260-40.
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- Uebelhart, James J.: See—
Mills, Frank J.; Sadowski, John T.; Squires, Harwood H.; and Uebelhart, James J., 3,671,026.
- Ueber, Russell C.: See—
Papadopoulos, Michael N.; and Ueber, Russell C., 3,700,280.
- Richardson, Edwin A.; and Ueber, Russell C., 3,672,449.
- Ueberberg, Heinrich: See—
Seeger, Ernst; Engel, Wolfhard; Teufel, Helmut; Machleidt, Hans; Ueberberg, Heinrich; and Ihring, Hanns, 3,642,801.
- Ueda, Akira. Water scooter. 3,703,877, 11-28-72, Cl. 115-70.000.
- Ueda, Akiteru: See—
Amano, Hisao; Ueda, Akiteru; Yokoyama, Kenjiro; and Ogata, Fumio, 3,662,248.
- Ueda, Atsumi, to Aisin Seiki Kabushiki Kaisha. Hydraulic intensifier. 3,632,230, 1-4-72, Cl. 417-225.
- Ueda, Haruo; Sugi, Masanao; and Chayamichi, Hiroshi, to Asahi Kasei Kogyo Kabushiki Kaisha. Bobbin winding. 3,677,492, 7-18-72, Cl. 242-164.000.
- Ueda, Hiroaki: See—
Kawasaki, Akihiro; Ueda, Hiroaki; and Maruyama, Isao, 3,652,518.
- Kawasaki, Akihiro; Ueda, Hiroaki; and Maruyama, Isao, 3,652,519.

- Kawasaki, Akihiro; Ueda, Hiroaki; and Taniguchi, Masanobu, 3,673,165.
- Ueda, Hiromi: *See*—
Hatsuse, Toshikazu; Ueda, Hiromi; Ozawa, Shoutii; and Yasuda, Yuh, 3,699,412.
- Ueda, Hiromitsu: *See*—
Toyooka, Tadao; Ueda, Hiromitsu; Nishida, Takeo; and Ono, Atsuo, 3,641,921.
- Toyooka, Tadao; Ueda, Hiromitsu; Nishida, Takeo; and Ono, Atsuo, 3,694,623.
- Ueda, Hiroshi: *See*—
Kobayashi, Tatsuo; and Ueda, Hiroshi, 3,687,026.
- Yata, Kintaro; Noda, Koji; and Ueda, Hiroshi, 3,680,955.
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- Ueda, Hiroshi: *See*—
Uryu, Sadayuki; and Ueda, Hiroshi, 3,688,254.
- Ueda, Hiroyuki: *See*—
Kurihara, Sumio; Araki, Kazumi; Ueda, Hiroyuki; and Ikumo, Masahiko, 3,632,474.
- Kurihara, Sumio; Araki, Kazumi; Ueda, Hiroyuki; and Ikumo, Masahiko, 3,668,073.
- Ueda, Hirozo: *See*—
Sato, Akira; Ueda, Hirozo; and Ono, Yoshiaki, 3,672,897.
- Ueda, Ichiro: *See*—
Ikegami, Seiji; and Ueda, Ichiro, 3,642,637.
- Ueda, Ikuro: *See*—
Umio, Suminori; Ueda, Ikuro; Sato, Yoshinari; and Maeno, Shizuo, 3,704,245.
- Ueda, Isao; Kageyama, Takao; and Inomata, Isao, to Nippon Electric Company, Limited. Waveguide window for transmission or electro-magnetic waves. 3,675,165, 7-4-72, Cl. 333-98.00p.
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Ogura, Shuichi; and Ueda, Katsuhisa, 3,653,740.
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Nakaguchi, Kohei; Nishikida, Tomozumi; Kawasumi, Shohachi; Maemoto, Kenichi; Sano, Takezo; Fujii, Yoshikazu; Harada, Koichi; and Ueda, Keiyou, 3,669,945.
- Ueda, Kenji: *See*—
Iwahashi, Koji; Ueda, Kenji; and Katsuta, Kihei, 3,684,672.
- Ueda, Kenji, to Mitsubishi Jukogyo Kabushiki Kaisha. Electrode apparatus for brine electrolysis. 3,645,880, 2-29-72, Cl. 204-278.
- Ueda, Kenzo: *See*—
Matsui, Masanao; and Ueda, Kenzo, 3,657,086.
- Ueda, Koza; Kimoto, Jitsumi; and Moritake, Mitsuru, to Osaka Gas Company, Limited. Process for treating tars. 3,692,663, 9-19-72, Cl. 208-44.000.
- Ueda, Masahiro: *See*—
Masaki, Mitsuo; Fukui, Kiyoshi; Ueda, Masahiro; and Okimoto, Kiyomi, 3,687,938.
- Masaki, Mitsuo; Fukui, Kiyoshi; Kuramasu, Tetsuro; and Ueda, Masahiro, 3,700,656.
- Ueda, Minoru: *See*—
Honda, Makoto; Kubota, Yasuhiro; Aoshima, Atsushi; Hisamatsu, Tokuchi; and Ueda, Minoru, 3,666,632.
- Ueda, Mituko: *See*—
Seto, Hiroshi; Ueda, Mituko; and Segawa, Humio, 3,704,625.
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- Ueda, Sumimichi: *See*—
Shimosaka, Yukio; Ueda, Sumimichi; and Nakajima, Shigeru, 3,658,767.
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Ohfuka, Toshio; Ichikawa, Yasushi; and Ueda, Takeshi, 3,691,110.
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- Ueda, Toshimasa: *See*—
Inoue, Taiichi; and Ueda, Toshimasa, 3,671,452.
- Inoue, Taiichi; and Ueda, Toshimasa, 3,671,454.
- Ueda, Yasuo: *See*—
Nihyakumen, Kouzi; Yokoyama, Taizo; Ueda, Yasuo; Kamezawa, Yasutoki; and Aizawa, Tatsuo, 3,653,903.
- Ueda, Yoshio: *See*—
Tsuboi, Yukio; Ueda, Yoshio; Ota, Tazuo; and Yoneoka, Mikio, 3,647,054.
- Ueda, Yuichi: *See*—
Hattori, Kenichi; Ueda, Yuichi; and Tanino, Yukio, 3,634,315.
- Uehara, Hideo: *See*—
Tanaka, Ikuzo; Uehara, Hideo; and Yamagata, Masayuki, 3,637,839.
- Tanaka, Ikuzo; Uehara, Hideo; and Tanaka, Makoto, 3,658,810.
- Uehara, Hiroshi: *See*—
Kawasaki, Jun; and Uehara, Hiroshi, 3,675,219.
- Uehara, Kiyoshi, to Nippon Electric Company, Limited. Temperature compensating circuit for an oscillator. 3,690,546, 9-12-72, Cl. 331-176.000.
- Uehara, Masao: *See*—
Matsui, Isamu; Nagasawa, Isao; Horiuchi, Tatsuo; Uchida, Hiroshi; and Uehara, Masao, 3,687,382.
- Uehara, Masaru: *See*—
Miyamoto, Haruo; Uchida, Hideho; and Uehara, Masaru, 3,674,621.
- Uehara, Yasunori, to Nissan Motor Company, Limited. Method of preventing a dent from being damaged by a weft yarn during beating and the device for accomplishing the same. 3,688,808, 9-5-72, Cl. 139-190.000.
- Uehira, Eiji: *See*—
Noyori, Yasuyuki; Uehira, Eiji; and Katayama, Tadao, 3,705,273.
- Uehling, Donald E., to General Electric Company. Gas turbine engine cooling system incorporating a vortex shaft valve. 3,632,221, 1-4-72, Cl. 415-115.
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- Ueki, Atsufumi: *See*—
Miyauchi, Tsuneshige; Hirano, Jiro; Ueki, Atsufumi; Tatsumi, Ryuji; Mukai, Kunihiro; and Yoshikawa, Shogo, 3,655,259.
- Uchida, Teiji; Yoshikawa, Shogo; and Ueki, Atsufumi, 3,644,842.
- Ueki, Atsufumi; and Tatsumi, Ryuji, to Nippon Selfoc Company, Limited; c/o Nippon Electric Company, Limited. Optical filter for suppressing noise which utilizes a graded optical fiber and means for controlling transverse position of iris. 3,643,097, 2-15-72, Cl. 250-201.
- Ueki, Kazufusa: *See*—
Takashima, Masaru; Saito, Masao; Matsuyama, Shigeru; and Ueki, Kazufusa, 3,681,051.
- Ueki, Kazufusa, to Aikoh Co., Ltd. Agent for desulfurizing molten pig iron. 3,681,050, 8-1-72, Cl. 75-58.000.
- Uekusa, Genzo: *See*—
Yamamoto, Mitiaka; Uekusa, Genzo; Tanimura, Shigeru; and Maejima, Norio, 3,648,117.
- Uekusa, Genzo; Tanimura, Shigeru; Higashi, Kazuhiro; and Sumoto, Takao, to Omron Tateisi Electronics Co. Semiconductor having tin oxide layer and substrate. 3,679,949, 7-25-72, Cl. 317-238.000.
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- Ueltschi, Odette, to Fritz Gegauf AG. Releasable winding mechanism for sewing machines. 3,670,974, 6-20-72, Cl. 242-22.000.
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- Uelzmann, Heinz: *See*—
Durst, Richard R.; and Uelzmann, Heinz, 3,700,707.
- Uelzmann, Heinz, to General Tire & Rubber Company, The. Symtris-(4-piperidyl) cyclohexanes. 3,646,041, 2-29-72, Cl. 260-293.
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- Uematsu, Sumio: *See*—
Kawata, Ryuichi; Kawada, Hiroitsu; Ohmura, Tadayoshi; and Uematsu, Sumio, 3,639,564.
- Kawata, Ryuichi; Kawada, Hiroitsu; Ohmura, Tadayoshi; and Uematsu, Sumio, 3,692,562.
- Uematsu, Takao: *See*—
Yamawaki, Takeshi; Usami, Masakatsu; Suzuki, Tetsumi; and Uematsu, Takao, 3,674,759.
- Uemoto, Kunihiko: *See*—
Gomi, Shinpei; Takahashi, Masaaki; Ishiguro, Tadashi; Okagami, Akio; Uemoto, Kunihiko; and Kuribayashi, Hiroshi, 3,689,401.
- Uemura, Motonori: *See*—
Kubota, Hiroyuki; Tamada, Akihiro; and Uemura, Motonori, 3,684,493.
- Uemura, Saburo; Fuse, Toyohiko; and Hashimoto, Yoshitaka, to Sony Corporation. Dual-gap magnetic flux-responsive heads. 3,639,698, 2-1-72, Cl. 179-100.2.
- Uemura, Saburo, to Sony Corporation. Vector displacement device. 3,652,927, 3-28-72, Cl. 324-34.

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Fujikawa, Sukeyoshi; and Uemura, Yasuhiro, 3,664,672.
- Uenaka, Kazushige: *See*—
Asano, Toshiaki; Uenaka, Kazushige; and Usami, Tomomasa, 3,652,278.
- Ueno, Akio: *See*—
Mizuno, Kaoru; Kitamura, Tetsuo; Nakao, Shoichi; Yasuda, Takehiko; Ueno, Akio; Yoshikawa, Kyunojo; Yuminaka, Takeo; and Sakata, Kazuhiro, 3,662,905.
- Ueno, Haruo: *See*—
Sugiura, Shotaro; Ueno, Haruo; Ishikawa, Hideo; Yano, Takefumi; and Shimamura, Tuncio, 3,644,320.
- Takayanagi, Motowo; Sugiura, Shotaro; Matsuura, Tetsuro; Ueno, Haruo; Tsuji, Keichi; Yamamoto, Shinzi; and Matumoto, Fuminori, 3,644,585.
- Ueno, Hiroshi; and Kobayashi, Seiichi, to Toyo Seikan Kabushiki Kaisha. Primer for metals. 3,663,354, 5-16-72, Cl. 161-186.000.
- Ueno, Ichiro, to Victor Company of Japan, Limited. Color television picture reproducing device. 3,638,065, 1-25-72, Cl. 315-13.
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- Ueno, Katumi: *See*—
Haruta, Hiroshi; and Ueno, Katumi, 3,688,612.
- Ueno, Kazunao: *See*—
Shimizu, Tsuneaki; and Ueno, Kazunao, 3,634,609.
- Ueno, Kazuo: *See*—
Huang, Ching Yun; Ueno, Kazuo; and Masawaki, Keizo, 3,683,044.
- Ueno, Keisiro: *See*—
Tokitomo, Soichi; Honda, Masakazu; Nakayama, Fumio; and Ueno, Keisiro, 3,675,541.
- Ueno, Kiyoshi: *See*—
Sakakura, Akira; Yamamoto, Takaaki; Taguchi, Satoru; and Ueno, Kiyoshi, 3,632,456.
- Sakakura, Akira; Taguchi, Satoru; Wada, Toshiya; Ueno, Kiyoshi; Yamamoto, Takaaki; and Urushiyama, Nabuo, 3,636,579.
- Ueno Pharmaceutical Co., Ltd.: *See*—
Ueno, Ryuzo; Miyazaki, Tetsuya; and Inamine, Shigeo, 3,692,534.
- Ueno, Ryuzo; Miyazaki, Tetsuya; and Inamine, Shigeo, to Ueno Pharmaceutical Co., Ltd. Method of the preservation of food against putrefaction. 3,692,534, 9-19-72, Cl. 99-90.00p.
- Ueno, Sadao: *See*—
Iida, Eiichi; Komatsubara, Tsuneo; Ueno, Sadao; Takeuchi, Soichiro; Matui, Etuo; and Sano, Toshio, 3,654,248.
- Ueno, Sinichi: *See*—
Shimizu, Tetsuji; Sumida, Hajime; Ueno, Sinichi; Usami, Susumo; and Tatematu, Sinzi, 3,634,652.
- Shimizu, Tetsuji; Yoshida, Takaomi; Otake, Sugako; Sumida, Hajime; and Ueno, Sinichi, 3,694,690.
- Ueno, Susumu: *See*—
Yamamoto, Kiyokazu; Kishimoto, Masaru; Ueno, Susumu; Fujimoto, Hiroshi; Hatamoto, Kazutaka; and Kubota, Tadashi, 3,641,653.
- Ueno, Takahiro; and Harada, Michio, to Kikkoman Shoyu Co., Ltd. Method for removing levulinic acid by microorganisms. 3,663,368, 5-16-72, Cl. 195-4.000.
- Ueno, Wataru: *See*—
Kasugai, Tsuneo; and Ueno, Wataru, 3,660,142.
- Tatsuta, Sumitaka; Ueno, Wataru; Tajima, Tatsuya; and Akao, Mutsuo, 3,697,305.
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- Ueno, Yoshihiko: *See*—
Yoshida, Tsunemi; Ishikawa, Koichi; Ando, Masatoshi; Ueno, Yoshihiko; and Arisawa, Kunio, 3,660,000.
- Ueno, Yoshimasa: *See*—
Oishi, Asao; Doi, Takao; and Ueno, Yoshimasa, 3,658,436.
- Ueno, Yoshito; and Matsumoto, Youichi, to Nippon Electric Co., Limited. Mode-locked phase-stabilized laser device. 3,651,424, 3-21-72, Cl. 331-94.5.
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- Uesson, Ants-Michael: *See*—
Paabo, George J.; and Uesson, Ants-Michael, 3,639,171.
- Uesugi, Kyojo: *See*—
Kobayashi, Tatsuo; Maeda, Keisuke; and Uesugi, Kyojo, 3,643,578.
- Sugano, Shigeaki; and Uesugi, Kyojo, 3,671,109.
- Uesugi, Kyojo, to Minolta Camera Kabushiki Kaisha. Universally adjustable mount for a camera objective lens. 3,704,658, 12-5-72, Cl. 95-50.000.
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- Utrecht, James W.: *See*—
Anderson, Richard N.; and Utrecht, James W., 3,666,052.
- Ueyama, Michio: *See*—
Ishii, Keiichi; Ueyama, Michio; Miyazaki, Koshin; and Noto, Tetsuo, 3,677,777.
- Ueyama, Tadashi: *See*—
Takeshima, Akio; Ueyama, Tadashi; Ohki, Akinori; and Mori, Tetsuo, 3,655,470.
- Ueyama, Tamotsu: *See*—
Maeda, Yo; Suzuki, Satoshi; Nakamura, Yoshiharu; Masubuchi, Yoritomo; Ueyama, Tamotsu; Fukutomi, Naoki; and Takahashi, Hiroshi, 3,646,670.
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Darcas, Claude; Jobert, Raymond; and Laviron, Charles, 3,699,148.
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Alliot, Rene Joseph; Darcas, Claude; and Jobert, Raymond, 3,697,576.
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- Verot, Jean-Louis; and Jaumier, Jean-Jacques, 3,658,714.
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- Kiesow, Wilhelm; and Heuser, Gerhard, 3,701,196.
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- Klasic, Mladen, 3,680,513.
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- Gloor, Urs; Ruegg, Rudolf; and Ulrich, Schwieter, 3,670,031.
- Ulrich, Solomon D.: See—
- Ulrich, Raymond M.; and Ulrich, Solomon D., 3,685,591.
- Ulrich Steinemann AG Maschinenfabrik: See—
- Maag, Guido, 3,633,319.
- Ulrich, Werner: See—
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- Kendell, Roy, 3,691,405.
- Ultra Products, Inc.: See—
- Brown, William M., 3,684,058.
- Ultra Tech Corporation: See—
- Koches, Andrew L.; and Christiansen, Francois T. W., 3,648,569.
- Ultra-Violet Products, Inc.: See—
- Boland, Steven H., 3,686,529.
- Ultrasonic Systems, Inc.: See—
- Balamuth, Lewis, 3,636,943.
- Balamuth, Lewis, 3,636,947.
- Balamuth, Lewis, 3,666,975.
- Balamuth, Lewis, 3,702,948.
- Kuris, Arthur, 3,642,010.
- Winston, Ronald H.; Schultz, Stephen; and Garvey, Thomas Q., III, 3,657,056.
- Ultrasonic Systems, Inc., mesne: See—
- Deans, Howard; and Sager, Thomas B., 3,669,780.
- Sager, Thomas B., 3,657,033.
- Ultronic Systems Corporations: See—
- Roberts, Richardson S., Jr., 3,643,252.
- Sieracki, Frank W., 3,689,872.
- Twyford, Robert H., 3,702,987.
- ULV Manufacturing Corporation: See—
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- Gawlick, Heinz; Marondel, Gunther; and Umbach, Hans, 3,641,935.
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- Weaver, Preston R., 3,643,513.
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- Lince, William G., 3,656,113.
- Weaver, Preston R., 3,698,249.
- U.M.C. Industries, Inc.: See—
- Erickson, Gustav F., 3,701,523.
- Fantz, Paul A., 3,682,005.
- Hendrickson, William W.; and Davis, Patrick J., 3,691,431.
- Pryor, Harry H.; Short, William H.; and Koeneker, William V., 3,666,558.
- Raymer, Doyle, 3,638,448.
- Woltjen, Duane W., 3,636,783.
- Umeda, Junichi, to Hitachi, Ltd. Light emitting diode with built-in drift field. 3,634,872, 1-11-72, Cl. 317-234.
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- Coker, Cecil Harold; and Umeda, Noriko, 3,704,345.
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- Umemura, Sumio: See—
- Yamada, Keisho; Umemura, Sumio; Ohdan, Kyoji; Hidaka, Mikio; Fukuda, Kazuo; and Sawazi, Masao, 3,688,002.
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- Kimura, Hiroshi; Nambu, Takeshi; Inoue, Kiyoshi; Imahori, Yoshiyuki; Yamaguchi, Kenji; and Umeno, Kyoze, 3,692,384.
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- Ueoka, Hisayoshi; Horii, Kazuo; and Umeya, Kazumasa, 3,673,119.
- Ueoka, Hisayoshi; Horii, Kazuo; Umeya, Kazumasa; and Maruyama, Syunsuke, 3,704,266.
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- Tsunoo, Shigeru; Horisaka, Kazuyoshi; Yamaguchi, Akiyuki; Adachi, Kikuo; and Umezawa, Osamu, 3,658,966.
- Umezawa, Sumio. Production of 3-amino-3-deoxy-D-glucose. 3,634,197, 1-11-72, Cl. 195-96.
- Umezono, Akimi: See—
- Uchida, Hiromu; Umezono, Akimi; Saito, Takao; and Enari, Tsutomu, 3,671,205.
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- Umstead, Herbert R., to Clayton Corporation. Valve and bag assembly for pressure dispensing. 3,662,926, 5-16-72, Cl. 222-95.000.
- Unangst, Raymond R.: See—
- Grass, George M., Jr.; and Unangst, Raymond R., 3,655,864.
- Unangst, Richard E., to GAF Corporation. Copy machine paper control circuit. 3,636,807, 1-25-72, Cl. 83-203.
- Unarco Industries, Inc.: See—
- Bertram, Leroy W., 3,673,968.
- Enochian, Samuel H., 3,695,656.
- Hart, John M., 3,702,636.
- Klein, Herbert H., 3,637,086.
- Von Stein, Gene B.; and Young, Norman R., 3,645,554.
- Unarco Industries, Inc., mesne: See—
- McLaughlin, Gerald, 3,645,214.
- Uncapher, Charles A., to Continental Can Company, Inc. Locking band assembly. 3,637,257, 1-25-72, Cl. 292-256.69.
- Uncas Manufacturing Company: See—
- Luttrario, Raymond G., 3,683,642.
- Uncovsky, Adolf: See—
- Buran, Vojtech; Kuba, Jaromir; Uncovsky, Adolf; and Zouhar, Karel, 3,638,489.
- Buran, Vojtech; Kuba, Jaromir; Uncovsky, Adolf; and Zouhar, Karel, 3,683,178.
- Unde, Friedrich, G.m.b.H.: See—
- Mevenkamp, Paul; and Marsch, Hans-Dieter, 3,688,494.
- Mevenkamp, Paul, 3,704,690.
- Underhill, Michael James, to U.S. Philips Corporation. Frequency synthesizers. 3,651,422, 3-21-72, Cl. 331-1.
- Underkoffler, Victor S.; and White, Richard B., to Leeds & Northrup Company. Incremental slope method for optimum continuous digital linearization. 3,699,318, 10-17-72, Cl. 235-151.100.
- Underwater Storage, Inc.: See—
- Quase, Harold G., 3,656,623.
- Quase, Harold G., 3,674,687.
- Quase, Harold Gerson, 3,655,051.
- Quase, Harold Gerson, 3,659,108.
- Underwood, Frank A.: See—
- Kegan, Robert E.; and Underwood, Frank A., 3,632,286.
- Underwood, Herbert N.: See—
- McAninch, Herbert A.; and Underwood, Herbert N., 3,688,982.
- Underwood, Lee D., to Concept Research Corporation. Method of coloring metals by the application of heat. 3,664,884, 5-23-72, Cl. 148-6.3.
- Underwood, Max E.: See—
- Miller, George M.; and Underwood, Max E., 3,705,617.
- Underwood, Michael John, to Negretti & Zambra (Aviation) Limited. Apparatus for detecting rapid change of fluid pressure. 3,678,231, 7-18-72, Cl. 200-81.00r.
- Underwood, Peter James: See—
- Stevens, Derek Norman; and Underwood, Peter James, 3,638,512.
- Underwood, Theodore A., to Goodyear Tire & Rubber Company, The. Water resistant polyurethane/polymer laminate. 3,692,742, 9-19-72, Cl. 220-63.00a.
- Underwood, Timothy J., to Humphrey Elevator and Truck Company. Therapeutic apparatus. 3,683,898, 8-15-72, Cl. 128-25.00r.
- Underwood, Warren: See—
- Moore, Lowell B.; Keating, Raymond J.; and Underwood, Warren, 3,700,387.
- Underwood, William G. E.: See—
- Kennedy, James; Long, Alan Gibson; and Underwood, William G. E., 3,665,003.
- Underwriters Safety Device Co.: See—
- Ege, Hans Raymond; and Doctor, Walter L., Jr., 3,670,295.
- Unedda Doll Co., Inc.: See—
- Sklarsky, Bernard B.; and Ostrander, Robert K., 3,696,551.
- Ung, Harry L., to Baldwin-Lima-Hamilton Corporation. Multi-stage throttle valve. 3,637,188, 1-25-72, Cl. 251-120.
- Ungar, Israel S.: See—
- Scher, Herbert I.; and Ungar, Israel S., 3,674,619.
- Ungar, Leslie A.; and Rosenthal, Arthur. Applicator assembly. 3,690,452, 9-12-72, Cl. 206-56.00c.
- Ungaro, Nicholas A., to Armstrong Cork Company. Modular furniture. 3,653,734, 4-4-72, Cl. 312-107.
- Unger, David, to Midweco-Enterprise, Inc. Utility module for apartment-type dwellings. 3,694,973, 10-3-72, Cl. 52-34.000.
- Unger, Edward H.: See—
- Drinkard, B. M.; Allen, Paul T.; and Unger, Edward H., 3,653,184.
- Drinkard, B. M.; Allen, Paul T.; and Unger, Edward H., 3,656,278.
- Unger, Hans Peter Olof; Westberg, Johan E. H.; Berndtsson, Gunnar Ingemar; and Schwartz, Stephan Lars, to AGA Aktiebolag. Centrifuge. 3,679,128, 7-25-72, Cl. 233-20.00r.
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- Unger, Hans Peter Olof; and Westberg, Johan Eric Hayden, to AGA Aktiebolag. Centrifuge. 3,684,161, 8-15-72, Cl. 233-26.000.
- Unger, Harold: See—
- Sze, Morgan C.; Unger, Harold; and Bennett, Thomas M., 3,687,840.
- Unger, John J.; Augustine, Robert J.; and Khaja, Farees U., to Sunbeam Corporation. Electric coffee percolator. 3,682,089, 8-8-72, Cl. 99-281.000.
- Unger, Phyllis S.: See—
- Fassett, Matthew; and Unger, Phyllis S., 3,641,564.
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Unger, Robert McCowan, to Raytheon Company. Delay line structure for traveling wave devices. 3,670,197, 6-13-72, Cl. 315-3.500.

Unger, Robert W.; and Sunderman, Wallace H., to Emerson Electric Co. Method and apparatus for making electric heater. 3,696,507, 10-10-72, Cl. 29-611.000.

Ungerer, Trma: See—

Munchbach, Curt, 3,704,615.

Unglert, Melvin C.: See—

Thornton, William A., Jr.; and Unglert, Melvin C., 3,670,194.

Ungnadner, Friedrich, to Siemens Aktiengesellschaft. Apparatus and method for synchronizing digital distance pulse counters. 3,648,029, 3-7-72, Cl. 235-92.

Ungnadner, Peter: See—

von Fischern, Bernhard; Winkler, Alfred; Fuchsle, Klaus; Zanner, Johann, Jr.; and Ungnadner, Peter, 3,690,751.

Uni-Mist, Inc.: See—

Boelkins, Wallace G., 3,707,168.

Unic Corporation: See—

Nakajo, Toshihiro, 3,662,907.

Unican Security Systems, Ltd.: See—

Belzberg, Samuel I., 3,701,450.

Unick, Alvin J.; and Abowd, Richard G., Jr., to Ethyl Corporation. Fuel composition. 3,650,711, 3-21-72, Cl. 44-1.

Unick, Alvin J.; and Gault, Kenneth W., to Ethyl Corporation. Lubricant compositions. 3,676,348, 7-11-72, Cl. 252-54.000.

Unicor Inc.: See—

Corzine, Luke H., 3,658,612.

Unicorn Industries, Inc.: See—

Phillips, Lawrence, Jr., 3,641,472.

Unicovske strojirny, narodni podnik: See—

Chytil, Josef, 3,636,325.

Unidry K/S Engineering and Development Group: See—

Nielsen, Alfred T., 3,653,319.

Unidynamics/Phoenix, Inc.: See—

Huber, John F., 3,675,942.

Jackson, Charles A., 3,643,041.

Unidynamics/Phoenix, Inc., mesne: See—

Rittenhouse, Charles T., 3,663,553.

Uniflo Systems Company: See—

Bloomfield, Roger D., 3,685,788.

Uniform Tubes, Inc.: See—

Mainwaring, Albert Bruce, 3,663,784.

Robbins, Arthur M., 3,636,239.

Unilux, Inc.: See—

Malley, Frank, 3,690,773.

Unilux, Inc.: See—

Sequerra, Richard I.; Smith, Sidney S.; Assenza, Fred J.; and Greenbaum, William H., 3,691,365.

Unimation, Inc.: See—

Dunne, Maurice J.; and Munson, George E., Jr., 3,654,613.

Dunne, Maurice J.; Correll, Robert E.; and Picard, Joseph Albert, Jr., 3,654,616.

Dunne, Maurice J.; Engelberger, Joseph F.; Gardner, Horace L.; and Lindbom, Torsten H., 3,661,051.

Unimax Switch Corporation: See—

Arthur, Ronald H., 3,681,554.

Unimed, Inc.: See—

Fossel, Eric T., 3,636,225.

Fossel, Spencer M., 3,632,765.

Krantz, John C., 3,644,643.

Uninorm Anstalt: See—

Biedermann, Siegfried, 3,634,826.

Union Camp Corporation: See—

Abrams, Andrew M., 3,645,382.

Abrams, Andrew M., 3,675,345.

Barker, Richard G.; and Ma, James L., 3,653,824.

Clark, Kenneth G.; Cook, Thomas J.; and De Pass, Ernest I., 3,688,471.

Gonis, George; and Slezak, Frank B., 3,658,891.

Swezey, Edwin W., 3,657,855.

Union Carbide Australia Limited: See—

Brodie, John Alfred, 3,645,699.

Union Carbide Canada Limited: See—

Hakka, Leo E.; Bata, George L.; and Hazell, John E., 3,674,439.

Shaw, Frank Walter, 3,666,867.

Union Carbide Corporation: See—

Aleckner, John F., Jr., 3,637,428.

Aleckner, John F., Jr., 3,697,311.

Amthor, Helmut K., 3,664,878.

Ancker, Fred H., 3,658,978.

Arino, Hirofumi; and Reardon, Vincent D., 3,663,177.

Arney, William C., Jr., 3,704,273.

Arnold, Donald R.; and Sousa, Anthony A., 3,636,217.

Arnold, Donald R.; Trecker, David J.; and Stehr, Charles E., 3,644,532.

Assarsson, Per Gunnar, 3,664,343.

Atwood, Lamar T.; and Gidge, Lester, 3,675,285.

Barthel, Alfred, 3,653,534.

Batta, Louis Bela, 3,636,679.

Bennett, Everett W., 3,642,851.

Bennett, Everett W.; and Orenski, Peter, 3,646,087.

Bennett, Everett W., 3,646,090.

Bennett, Everett W., 3,651,117.

Bennett, Everett W., 3,686,253.

Bennett, Frank W.; and Van Delinder, Loren S., 3,677,803.

Bennett, Roswell J., 3,674,563.

Berthold, Robert V.; and Roberts, Rene M. J., 3,707,545.

Beutler, Hans; and Beatty, Ronald L., 3,682,759.

Boardman, Franklin, 3,632,797.

Bolton, Anthony Peter, 3,647,717.

Borden, George W.; and Trecker, David J., 3,678,073.

Brindley, Robert Edwin, 3,650,841.

Brode, George L.; and Conte, Louis B., Jr., 3,632,557.

Brode, George L., 3,678,010.

Brode, George Lewis; and Pickering, Timothy Lee, 3,640,965.

Brotherton, Thomas K.; Lynn, John W.; and Knopf, Robert J., 3,677,983.

Brown, Russell L., 3,656,323.

Bucher, Paul E.; and Picunko, Thomas, 3,669,551.

Buster, James R.; and Apperson, Charles H., 3,634,236.

Carkhuff, Donald Wesley; and McGinty, Harry Charles, 3,659,072.

Chadwick, Cecil G., 3,635,699.

Chow, Sui-Wu; and Smarook, Walter H., 3,640,838.

Chow, Sui-Wu; Matzner, Markus; and McGrath, James E., 3,681,473.

Cole, Louis F., 3,647,702.

Collins, John J.; Conviser, Stephen A.; Anderson, Richard A.; and Manchanda, Krishan D., 3,660,967.

Collins, John Joseph, 3,654,144.

Collins, Joseph John, 3,674,429.

Colomb, Henry Octave, Jr.; Trecker, David J.; and Brotherton, Thomas Kemper, 3,658,669.

Comstock, Lowell R.; and Smith, Percy L., 3,668,178.

Covitz, Frank H.; and Carrubba, Robert V., 3,663,381.

Cox, Norman R.; and Saunby, John B., 3,646,128.

Creamer, Charles Edward, 3,696,068.

Crichton, Alfred Buxton, 3,666,908.

Crimi, Fred J., 3,645,949.

Critchfield, Frank Edward; Hyre, John Edward; and Stout, Eldon Charles, 3,689,531.

Darland, William G., Jr., 3,672,998.

Derijckere, Antoon M.; and Eloy, Fernand G. F., 3,663,559.

Derijckere, Antoon M.; and Eloy, Fernand G. F., 3,666,765.

Deryckere, Antoon M.; and Eloy, Fernand J. F., 3,663,551.

Dhuysser, Edward H.; and Eichin, Harry P., 3,631,566.

Didchenko, Rostislav; and Lowell, Lawrence Prentiss, Jr., 3,661,503.

Doumaux, Arthur R., Jr., 3,634,406.

Eichin, Harry P., 3,672,494.

Eichin, Harry Paul; and Jones, Kenneth Moritz, 3,639,130.

Elbert, Raymond J.; and Farrier, Ernest G., 3,677,721.

Elder, John A., Jr., 3,650,814.

Ertingshausen, Gehard; and Fabiny, Diane L., 3,682,586.

Falk, Henry J., 3,638,450.

Fan, You-Ling, 3,632,560.

Farrell, John W.; and Forgeng, William D., 3,660,081.

Fay, Homer; Alford, Wilbur J.; and Dess, Howard M., 3,639,776.

Fitton, Peter; and McKeon, James Edward, 3,632,824.

Fitton, Peter; and Rick, Edward A., 3,674,825.

Foster, George N., 3,647,738.

Freudewald, Joachim E.; and Konrad, Frederic M., 3,697,606.

Gagliardi, Domenick D., 3,653,952.

Gottschalk, Lawrence A., 3,638,340.

Grabauskas, Joseph J., 3,684,732.

Gruke, Carl A., 3,652,339.

Hamling, Bernard H., 3,663,182.

Hard, Robert A.; Stoyell, Loyal A.; and Young, Claude F., 3,703,039.

Hargitay, Bartholomew, 3,701,764.

Harvey, James R., 3,645,969.

Hauck, Clifford A., 3,673,374.

Hill, Clifford Warren, 3,689,732.

Hoffman, Maurice F.; and Hodge, Abram L., 3,663,315.

Holmes, Samuel J.; and Woodberry, Frank Joseph, 3,704,934.

Hoy, Kenneth Look; and Milligan, Charles Leonard, 3,668,183.

Hudgins, Patricia Lucille; Stringer, George Raymond; and Swango, William Herald, 3,657,356.

Hunsaker, Floyd Melvin; and Quiring, Allan Joseph, 3,644,774.

Jackson, George E., 3,665,733.

Jackson, George E., 3,675,447.

Jackson, George E., 3,703,820.

Jackson, George Edward, 3,656,324.

Jamal, Victor Joseph, 3,707,425.

Jehle, William Robert, 3,705,500.

Jenkinson, Richard D., 3,677,989.

Johnson, Herbert E., 3,671,500.

Johnson, Herbert E., 3,671,501.

Johnson, Robert N., 3,687,920.

Johnson, Robert Norman; Karol, Frederick John; and Pilato, Louis Anthony, 3,642,749.

Johnson, Robert Norman, 3,704,287.

Johnson, William R.; Sevy, William R.; Weigel, James E.; and Taller, Robert A., 3,701,746.

Kamm, Gerard R.; and Young, Charles H., 3,683,592.

Kamp, Ewald A.; and Massey, Emmett J., 3,648,804.

Kamp, Ewald Albert; and Smith, John C., 3,680,175.

Kanner, Bernard; and Prokai, Bela, 3,642,670.

Kasting, Howard Edward; and Staub, Roger Brown, 3,632,256.

Kelg, George A.; Smith, James C.; and Watts, John M. J., 3,655,415.

Kellar, Arnold Arbutnot, 3,657,592.

Keogh, Michael J.; and Ingberman, Arthur K., 3,701,806.

Keutgen, William A., 3,663,486.

Kincaid, Harrison S.; Hostettler, Fritz; and Vineyard, Harry, 3,651,021.

Kincaid, Harrison S.; Hostettler, Fritz; and Vineyard, Harry, 3,654,347.

Kliegman, Jonathan M.; and Barnes, Robert K., 3,652,672.

Knopf, Robert John; Bowne, Lloyd Marshall; and Hiser, Robert Darrell, 3,663,506.

Koehner, Walter, 3,662,281.

Koehner, Walter, 3,665,337.

Koehner, Walter; Rice, Dennis Keith; and De Shazer, Larry Grant, 3,702,974.

Kohler, Rudolph H., 3,666,255.

Koleske, Joseph Victor; Roberts, Rene Marie-Joseph; and Del-Giudice, Frank Paul, 3,670,045.

Kupcikevicius, Vytautas, 3,638,390.

Kupcikevicius, Vytautas, 3,659,317.

Kwiatkowski, George T.; Brode, George L.; and Robeson, Lloyd M., 3,658,938.

Lambrecht, Richard A., 3,650,648.

Lee, Tien Shuey, 3,653,965.

Litteral, Carl James, 3,694,405.

Long, Hugh M., 3,636,620.

Louzos, Demetrios V.; and Mellors, Geoffrey W., 3,655,453.

Louzos, Demetrios V., 3,672,996.

Louzos, Demetrios V., 3,684,480.

Louzos, Demetrios V., 3,690,866.

Louzos, Demetrios Vasilios, 3,653,968.

Louzos, Demetrios V., 3,685,983.

Lundberg, Robert Dean; and Del Giudice, Frank Paul, 3,632,669.

Lundberg, Robert Dean; Koleske, Joseph Victor; and Walter, Earl Richard, 3,637,544.

Lundberg, Robert Dean; Koleske, Joseph Victor; Pollart, Dale Flavian; and Smarook, Walter Henry, 3,641,204.

Lundberg, Robert Dean; and Del Giudice, Frank Paul, 3,646,170.

Lytle, Thomas James, 3,647,570.

Mago, Blake F., 3,634,109.

Mandorf, Victor, Jr.; and Fenish, Robert G., 3,632,708.

Mandorf, Victor, Jr.; and Montgomery, Lionel C., 3,660,027.

Mandorf, Victor, Jr.; and Montgomery, Lionel Clayton, 3,673,118.

Marsden, James G., 3,661,628.

Marshall, Walter R., 3,675,902.

Matzner, Markus, 3,639,503.

Matzner, Markus, 3,641,200.

Matzner, Markus; and McGrath, James E., 3,657,385.

Matzner, Markus; McGrath, James E.; Manyik, Robert M.; and Walker, Wellington E., 3,696,075.

Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., 3,696,131.

Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., 3,696,132.

Matzner, Markus; Noshay, Allen; and Barclay, Robert, Jr., 3,701,815.

Maurer, David Paul, 3,638,443.

Maurer, David Paul, 3,675,439.

McClincy, Richard J.; Downing, James H.; and Wilson, Benjamin John, 3,660,298.

McClincy, Richard Joseph; Downing, James Herbert; and Wilson, Benjamin John, 3,704,094.

McGrath, James E.; and Matzner, Markus, 3,655,822.

McKeon, James E.; and Trecker, David J., 3,634,346.

McKibben, Charles W.; and Robinson, Robert C., 3,671,018.

McTeer, Lucian W.; and Kelso, Robert G., 3,639,431.

McTeer, Lucian W., 3,700,722.

McWhirter, John R.; and Robinson, Ernest K., 3,660,277.

McWhirter, John Ruben, 3,670,887.

Mellors, Geoffrey W., 3,689,323.

Moline, Sheldon W., 3,648,474.

Morehouse, Edward L., 3,686,254.

Morehouse, Edward L., 3,703,489.

Morehouse, Edward L., 3,707,492.

Morehouse, Edward Lewis, 3,660,452.

Morehouse, Edward Lewis, 3,669,913.

Morison, Charles R. W., 3,681,251.

Moyer, Charles E., Jr., 3,671,499.

Moyer, Robert G., 3,650,147.

Mui, Jeffrey Y. P.; and Bennett, Everett W., 3,666,782.

Nauman, Edward B.; Szabo, Ted T.; Klosek, Felix P.; and Kaufman, Stephen, 3,668,161.

Neddenriep, Richard J., 3,634,331.

Niegisch, Walter D., 3,674,623.

Notaro, Frank, 3,647,606.

Oberly, James E.; Coless, Thomas L.; and Rimer, D. Woodrow, 3,663,313.

Olhoft, Gary Vernon; Eldred, Nelson Richard; and Koleske, Joseph Victor, 3,642,507.

Olzewski, Walter J., 3,677,019.

Omiotanski, George M., 3,694,480.

Osborn, Claiborn Lee; and Trecker, David J., 3,650,669.

O'Shea, Ronald J.; Haase, Bernd W.; and Hawkins, Albert W., 3,656,271.

Ostrozynski, Robert Leopold, 3,700,712.

Papa, Anthony Joseph; and Proops, William Robert, 3,640,911.

Papa, Anthony Joseph; and Proops, William Robert, 3,673,130.

Peck, David W.; and Gentry, Robert R., 3,641,115.

Pepe, Enrico J.; and Kanner, Bernard, 3,661,963.

Pepe, Enrico J.; and Marsden, James G., 3,671,562.

Perry, James L., 3,698,589.

Phillips, Benjamin; Pollart, Dale Flavian; and Koleske, Joseph Victor, 3,692,023.

Pickert, Paul Eugene, 3,640,681.

Pilato, Louis Anthony; and Colomb, Henry Octave, Jr., 3,645,959.

Piper, John, 3,686,535.

Prokai, Bela, 3,658,867.

Purcell, Chester L.; and Smarook, Walter H., 3,674,896.

Quandt, Herbert C., 3,655,354.

Rabo, Jule Anton; Angell, Charles Leslie; and Skeels, Gary William, Jr., 3,647,682.

Ragi, Elias George, 3,684,007.

Raymus, Grants J., 3,669,255.

Reid, Edwin Durham, 3,679,460.

Reimlinger, Hans K.; and Vandewalle, Jan Joseph Maurice, 3,639,406.

Richardson, Dean E.; Peterson, Adolph A., III; and Brady, Harold P., Jr., 3,701,742.

Rick, Edward A.; and Tinsley, Samuel W., 3,646,113.

Rick, Edward A.; McKeon, James E.; Fitton, Peter; and Argento, Benny J., 3,678,085.

Rifi, Mahmoud R., 3,645,986.

Rose, Emery T.; and Pezzanite, Larry V., 3,639,159.

Rosen, Meyer R.; and Prokai, Bela, 3,677,347.

Rothrock, Larry R.; and Wilder, Raymond E., 3,639,065.

Rothrock, Larry R., 3,657,510.

Salensky, George A., 3,635,860.

Schleyer, Paul von R., 3,673,268.

Schmid, Richard O.; and Alda, Harold, 3,638,790.

Schofield, J. Allan; and Delano, Roger A., 3,640,884.

Schofield, J. Allan; and Delano, Roger A., 3,671,442.

Schofield, J. Allan; and Delano, Roger A., 3,671,443.

Schofield, J. Allan; and Delano, Roger A., 3,671,444.

Schofield, J. Allan; and Delano, Roger A., 3,671,445.

Schofield, J. Allan; and Delano, Roger A., 3,671,446.

Schulthess, Carl William; and Gregor, Eduard, 3,663,890.

Shapiro, Stephen I., 3,681,029.

Silver, Julius L., 3,651,170.

Silver, Julius L., 3,657,383.

Simon, Selwyn; and Tijunelis, Donatas, 3,650,775.

Sloka, William Edward, 3,652,221.

Smith, Arthur E., 3,671,656.

Smith, Oliver Wendell; Weigel, James Edward; and Trecker, David J., 3,700,643.

Smith, Percy L.; and Comstock, Lowell R., 3,697,625.

Snedeker, Robert Howard; Garty, Kenneth Thomas; and Skiermont, Frank Joseph, 3,666,614.

Soldatos, Anthony C., 3,639,658.

Soldatos, Anthony C., 3,640,958.

Soldatos, Anthony C.; and Burhans, Allison S., 3,686,359.

Stampa, Guido B., 3,684,761.

Starcher, Paul Spencer; and Ash, Bertrand Donahay, 3,681,438.

Stevens, John J., Jr., 3,647,742.

Stratta, J. John, 3,645,950.

Sulzberg, Theodore; and Cotter, Robert J., 3,637,798.

Symoniak, Martin Francis; Torke, David Allen; and Holmes, Ervine Stout, 3,700,589.

Tijunelis, Donatas; and Shiner, Edward A., 3,639,318.

Tobler, Erich; and Foster, Donald J., 3,636,114.

Trecker, David J.; Henry, Joseph P.; and Lynn, John W., 3,646,132.

Trecker, David J.; and McKeon, James E., 3,678,096.

Troue, Harden Henry, 3,651,358.

Uline, Lawrence James, 3,675,389.

Urbutis, Algimantas P., 3,689,960.

Urbutis, Algimantas P.; Schenk, Bernard H.; Risany, Joseph J.; and Marbach, Walter V., 3,704,483.

- Usen, Norman, 3,632,024.
 Uttrachi, Gerald D.; and Messina, Joseph E., 3,659,073.
 Van Auker, Thomas Vincent; and Brode, George Lewis, 3,632,654.
 Viehe, Heinz G.; and Delavarenne, Serge Y., 3,654,368.
 Wagner, John L., 3,703,068.
 Walter, Earl Richard; and Koleske, Joseph Victor, 3,632,687.
 Watwood, Robert P.; and Moore, James A., 3,643,795.
 Weinberg, Kurt, 3,651,147.
 Wheeler, Marshall L., Jr., 3,674,891.
 Wheller, Marshall L., Jr., 3,663,649.
 Wilson, Benjamin John; McClincy, Richard J.; and Downing, James Herbert, 3,704,114.
 Winokur, Louis L., 3,638,394.
 Wu, Chisung, 3,639,531.
 Wu, Chisung, 3,644,595.
 Wu, Chisung, 3,660,539.
 Wu, Chisung, 3,662,029.
 Wu, Chisung, 3,662,030.
 Wu, Chisung, 3,662,038.
 Wynstra, John; and Stevens, John Joseph, Jr., 3,699,070.
 Wynstra, John; and Gibb, Thomas B., Jr., 3,704,268.
 Young, Claude F.; and De Weese, Richard O., 3,677,403.
 Young, Claude Frank; and Offenbauer, Charles Martin, 3,660,544.
 Union Carbide Corporation, *mesne: See—*
 Cochran, Troy Lee; and Kirkpatrick, Melvin Douglas, 3,683,583.
 King, James R., 3,702,388.
 Union Carbon Corporation, *See—*
 Sura, James J., 3,691,133.
 Union Industrielle Blanz-Ouest, *See—*
 Montacie, Marcel, 3,644,000.
 Montacie, Marcel, 3,682,288.
 Union Insulating Company, Inc., *See—*
 Arnold, William O., Jr., 3,673,670.
 Union Oil Company of California, *See—*
 Alley, Starling K., 3,668,264.
 Alley, Starling K., Jr., 3,706,815.
 Backlund, Peter Stanley, 3,640,698.
 Backlund, Peter Stanley, 3,660,069.
 Backlund, Peter Stanley, 3,663,197.
 Backlund, Peter Stanley, 3,663,198.
 Backlund, Peter Stanley, 3,667,928.
 Backlund, Peter Stanley, 3,689,607.
 Biale, Giovanni, 3,644,307.
 Biale, Giovanni, 3,644,565.
 Block, Michael J., 3,661,530.
 Block, Michael J., 3,689,227.
 Booth, Frank B., 3,641,076.
 Booth, Frank B.; Fenton, Donald M.; and Olivier, Kenneth L., 3,644,446.
 Burmaster, Neal C.; Harbolt, Bruce A.; and Block, Delbert W., 3,661,190.
 Clark, Richard C., 3,692,568.
 Craggs, Donald E.; and Gillen, Richard S., 3,704,784.
 Dorsch, Erwin A., 3,660,056.
 Dorsey, William Smith; Hallis, Thomas, Jr.; and Pullen, Edward A., 3,659,772.
 Doumani, Thomas F., 3,636,101.
 Dvoracek, Louis M.; and Sarem, Amir M., 3,668,111.
 Evans, Robert R.; and Backlund, Peter Stanley, 3,644,130.
 Fenton, Donald M., 3,637,833.
 Fenton, Donald M., 3,641,071.
 Fenton, Donald M., 3,641,074.
 Fenton, Donald M., 3,641,137.
 Fenton, Donald M., 3,652,608.
 Fenton, Donald M., 3,652,655.
 Fenton, Donald M., 3,654,322.
 Fenton, Donald M., 3,654,337.
 Fenton, Donald M., 3,655,745.
 Fenton, Donald M., 3,655,763.
 Fenton, Donald M., 3,660,441.
 Fenton, Donald M., 3,661,949.
 Fenton, Donald M., 3,668,249.
 Fenton, Donald M., 3,679,688.
 Fenton, Donald M., 3,679,689.
 Fenton, Donald M., 3,697,600.
 Fenton, Donald M., 3,700,729.
 Fenton, Donald M., 3,702,856.
 Fischer, Paul W., 3,669,189.
 Fischer, Paul W.; and Holm, Leroy W., 3,682,249.
 Fleck, Raymond N.; Dvoracek, Louis M.; and Lueth, Paul F., 3,682,815.
 Gonta, Stewart J.; Hallis, Thomas, Jr.; and Johnson, Lawrence S., 3,660,336.
 Gonta, Stewart J.; and Hallis, Thomas, Jr., 3,692,564.
 Hansford, Rowland C., 3,637,484.
 Hansford, Rowland C., 3,637,878.
 Hansford, Rowland C., 3,703,461.
 Hashimoto, Saburo, 3,677,895.
 Hass, Robert H.; Helfrey, Paul F.; and Kay, Nicholas L., 3,655,551.
 Hass, Robert H.; and Reeg, Cloyd P., 3,699,036.
 Hass, Robert H.; and Reeg, Cloyd P., 3,706,658.
 Holm, Le Roy W., 3,637,015.
 Holm, Le Roy W., 3,637,016.
 Holm, Le Roy W., 3,673,124.
 Holm, Le Roy W., 3,697,424.
 Holm, Leroy W., 3,664,419.
 Holm, LeRoy W., 3,691,072.
 Jamison, Robert W.; and Norcross, Paul A., 3,675,199.
 Kelley, Arnold E.; and Wood, Frederick C., 3,644,197.
 Knights, Evord F., 3,686,287.
 Knutson, Gaylen M., 3,661,696.
 Maly, George P.; and Robinson, Joel P., 3,637,010.
 Marsh, Glenn A.; and Schaschl, Edward, 3,649,492.
 Mickelson, Grant A.; Jones, Darryl L.; and Baral, William J., 3,706,693.
 Oliver, Robert K.; and Ford, George L., 3,677,533.
 Rardin, Robert W., 3,703,929.
 Sandiford, Burton B., 3,633,310.
 Sarem, Amir M., 3,663,490.
 Sarem, Amir M.; and Holm, Leroy W., 3,704,990.
 Schaeffer, William D., 3,668,257.
 Scheffel, John W.; Fischer, Paul W.; and Schmidt, Ethan R., 3,684,012.
 Showalter, William E., 3,677,343.
 Showater, William E., 3,653,638.
 Strauss, Robert E.; and Hashimoto, Saburo, 3,679,392.
 Wagner, Robert E., 3,663,431.
 Ward, John W.; and Clark, Danford E., 3,692,692.
 Yates, Kenneth P., 3,665,297.
 Young, Dean Arthur, 3,644,200.
 Young, Dean Arthur; and Mickelson, Grant A., 3,652,449.
 Young, Dean Arthur, 3,690,823.
 Young, Dean Arthur, 3,706,694.
 Young, Donald C.; and Harbolt, Bruce A., 3,637,351.
 Young, Donald C., 3,679,377.
 Young, Donald C., 3,679,390.
 Young, Donald C., 3,689,246.
 Young, Donald C., 3,702,241.
 Union Oil Company of California, *mesne: See—*
 Annable, Weldon G., 3,707,361.
 Union Pump Company, *See—*
 Freed, Jacob B.; and Reiling, Victor G., 3,698,422.
 Yohpe, Reinhard A., 3,679,332.
 Union Rheinische Braunkohlen Kraftstoff Aktiengesellschaft, *See—*
 Biller, Efim; Huettner, Rudolf; and Velling, Gunter, 3,691,238.
 Hilberath, Friedrich; and Teggers, Hans, 3,690,550.
 Union Siderurgique du Nord et de l'Est de la France Par Abreviation "USINOR", *See—*
 Francois, Xavier; Venet, Roland Jean; and Prioretti, Guy Pierre, 3,678,845.
 Pomey, Jacques, 3,658,602.
 Union Special Machine Company, *See—*
 Crisler, Larry Dean, 3,636,899.
 Fletcher, Roy W.; and Forte, Anthony D., 3,661,104.
 Fletcher, Roy W.; and Forte, Anthony D., 3,677,208.
 Griggs, Richard V.; and Attwood, John G., 3,635,780.
 Hsiao, James C., 3,693,564.
 Kostow, Robert L.; and Attwood, John G., 3,687,097.
 Launer, Wilbur A., 3,698,336.
 Reimer, George M.; and Klose, Frederick M., 3,654,883.
 Scholij, Edgar, 3,683,832.
 Smith, Clarence C., 3,687,096.
 Szostak, Henryk; and Smith, Clarence C., 3,688,711.
 Union Special Maschnefabrik G.m.b.H., *See—*
 Rohr, Gunther, 3,661,105.
 Union Tank Car Company, *See—*
 Brown, Fred; and Obermeyer, James Henry, 3,647,251.
 Brown, Fred, 3,656,134.
 Damiani, Benjamin John, 3,636,965.
 Heap, James C.; and Schlink, Laurence J., 3,631,815.
 Unique Industries, Inc., *See—*
 Foss, Rudolph G., 3,704,639.
 Unirazor, Ltd., *See—*
 Scholin, Harold W., 3,631,641.
 Scholin, Harold W., 3,702,026.
 Uniroyal Aktiengesellschaft, *See—*
 Deboeur, Francois Fernand; and Plumhans, Paul Jean, 3,703,346.
 Uniroyal Endustri Turk, A.S., *See—*
 Jaffke, Heinz K. E., 3,638,607.
 Uniroyal Englebert Deutschland AG, *See—*
 Breuer, Hubert, 3,690,992.
 Ganser, Wilhelm, 3,665,609.
 Lehnen, Josef Peter; Menges, Hans G. L.; and Harms, Engelbert G., 3,652,064.
 Menges, Hans G. L.; Lehnen, Josef P.; and Harms, Engelbert G., 3,680,844.

- Uniroyal Englebert France S.A., *See—*
 Devienne, Andre; and Trzepacz, Jean Compiègne, 3,638,705.
 Fleuret, Louis; and Trepacz, Jean, 3,677,852.
 Le Gall, Jacques, 3,638,707.
 Leblond, Jean; Biet, Jean; and Danneels, Guy, 3,654,828.
 Leblond, Jean, 3,659,975.
 Leblond, Jean, 3,674,582.
 Leblond, Jean, 3,674,603.
 Leblond, Jean, 3,676,262.
 Leblond, Jean; and Biet, Jean, 3,696,949.
 Mirtain, Henri, 3,667,529.
 Mirtain, Henri, 3,677,319.
 Uniroyal, Inc., *See—*
 Adams, Gerald E., 3,673,883.
 Adams, Gerald E.; and Van Buskirk, Edward C., 3,682,768.
 Amidon, Roger W.; and Gencarelli, Richard A., 3,674,824.
 Atwell, William J.; and Cranston, Lawrence, 3,654,967.
 Atwell, William J.; and Cranston, Lawrence, 3,682,201.
 Beckley, Addison S., 3,702,711.
 Bevilacqua, Edward M., 3,658,743.
 Brandt, Jack P., 3,673,059.
 Brindell, Gordon D.; and Dannals, Leland E., 3,658,744.
 Chin, James; and Hartley, James C., Jr., 3,649,713.
 Chin, James; Witt, Harry S.; and Schwartz, Eli, 3,700,481.
 Clarkson, Robert J., 3,665,567.
 Covey, Rupert A.; von Schmeling, Bogislav; and Crittendon, Charles E., 3,690,861.
 Covey, Rupert A.; von Schmeling, Bogislav; and Crittendon, Charles E., 3,707,363.
 Crepeau, Allen E., 3,657,160.
 Danielson, Arthur C., 3,658,637.
 Dannals, Leland E., 3,646,099.
 Dannals, Leland E., 3,668,230.
 Davis, Robert A.; Grahame, Robert E.; and Kulka, Marshall, 3,657,449.
 Elliott, Daniel R.; Francois, Edgar; and MacDonald, Donald C., 3,637,446.
 Falkenau, Vernon A., 3,638,254.
 Farber, Milton; Miller, Robert; and Brown, Charles N., 3,652,198.
 Farber, Milton; and Fuest, Ronald W., 3,652,734.
 Farrar, Henry C.; Shichman, Daniel; and Wos, Joseph S., 3,650,103.
 Fetish, William H., Jr., 3,669,471.
 Fischer, William K., 3,678,129.
 Francois, Edgar, 3,638,281.
 Francois, Edgar, 3,638,455.
 Francois, Edgar; and Uhlig, Edwin C., 3,638,979.
 Fuest, Ronald W.; and Farber, Milton, 3,659,009.
 Geyer, Paul, 3,632,255.
 Hageman, Howard A.; Gevirtz, Arthur H.; and Von Schmeling, Bogislav, 3,632,646.
 Hageman, Howard A., 3,668,258.
 Hageman, Howard A., 3,686,325.
 Harvey, Merlin P.; and Relyea, Douglas I., 3,658,768.
 Hinckley, Paul D.; Klender, Gerald J.; and Lambiott, Jerry F., 3,686,362.
 Hubber, Richard H.; and Brown, Robert J., 3,692,444.
 Hugger, Richard H.; and Huang, George C., 3,645,660.
 Ingulli, Alfred F.; and Alter, Henry L., 3,636,140.
 Jones, Doyle P.; Kohm, Robert C.; and Perkins, Donald V., 3,669,299.
 Juodis, Alter; and Gauch, George J., 3,685,297.
 Lauchlan, Robert L., 3,641,207.
 Lauchlan, Robert L., 3,646,162.
 Lauchlan, Robert L.; and Shaw, Gray A., 3,660,531.
 Lee, Charles W., 3,661,822.
 Loveless, Frederick C.; and Hartz, Roy E., 3,668,279.
 Loveless, Frederick C.; and Miller, Don H., 3,706,718.
 Mastromatteo, Richard; and Brett, Thomas J., Jr., 3,678,135.
 Miller, Robert; Clarkson, Robert J.; and Cesare, Frank C., 3,686,848.
 Miller, Robert; Witt, Jerry L.; and Tidmore, Mabry L., 3,707,178.
 Morrissey, Gerrard, 3,639,323.
 Neri, Omero; and Todd, Charles E., 3,659,836.
 Olson, Mark W.; and Silva, Walter F., 3,635,623.
 O'Shea, Francis X., 3,642,950.
 O'Shea, Francis X., 3,686,312.
 O'Shea, Francis X., 3,686,313.
 Paddock, Charles F., 3,653,423.
 Peaker, Charles R., 3,632,466.
 Peaker, Charles R., 3,699,069.
 Prager, Irwin A., 3,649,484.
 Quinn, Edwin J., 3,668,243.
 Relyea, Douglas I., 3,686,216.
 Schichman, Daniel; and Hong, Sung Whee, 3,701,702.
 Schlager, Wilfred C., 3,654,012.
 Snodgrass, Hugh E.; and Lauchlan, Robert L., 3,639,499.
 Snodgrass, Hugh E.; and Lauchlan, Robert L., 3,665,058.
 Stevenson, Jack R., 3,659,454.
 Sundholm, Norman K., 3,634,275.
 Tokita, Noboru; and Hahn, Edwin R., 3,657,058.
 Van Buskirk, Edward C., 3,671,375.
 Vanderhagen, Lawrence P.; Ritter, Gerald R.; and Zion, Gilbert C., 3,632,241.
 Vanderhagen, Lawrence P., 3,642,392.
 Von Schmeling, Bogislav; and Boos, Walter R., 3,663,712.
 Walker, James L.; and Chimiel, Chester T., 3,666,272.
 Wheeler, Edward L., 3,649,690.
 Wheeler, Edward L., 3,666,716.
 Whelan, William P., 3,663,496.
 Willie, Douglas A.; Habel, Ronald D.; and Shepherd, Robert D., 3,654,013.
 Uniroyal, Ltd., *See—*
 Cohen, Margalit; and Mac Phee, Kenneth E., 3,664,974.
 Girgis, Mikhail M., 3,700,664.
 Hager, Frederick M., 3,692,561.
 Smiley, Yale H., 3,674,222.
 Von Schmeling, Bogislav; and Boos, Walter R., 3,663,712.
 Uniroyal Ltd., *mesne: See—*
 Evans, Robert G.; and Stifel, George R. P., 3,664,976.
 Unisto AG, *See—*
 Glaser, Jules, 3,706,147.
 Unitaka Ltd., *See—*
 Kimura, Hiroshiro; Arimoto, Heiji; Nara, Hirohisa; Miyamatsu, Tsugio; and Kitajima, Mitsuo, 3,695,306.
 Unitec Industries, Inc., *See—*
 Cooke, Robert F., 3,674,110.
 Grinups, George, 3,702,544.
 Wheeler, J. Stanley, 3,690,369.
 United Aircraft Corporation, *See—*
 Accashian, John, 3,706,432.
 Adams, Don L.; and Allen, Nicholas, 3,665,217.
 Anderson, Gunnar R., 3,688,534.
 Arcidiacono, Peter J., 3,649,132.
 Aylward, John R.; and Smith, James I., 3,661,753.
 Bala, Mitchell J.; and Blecherman, Sol S., 3,667,421.
 Ballard, Norman D., 3,679,567.
 Barrow, Robert B.; and Terkelsen, Bruce E., 3,633,648.
 Barrow, Robert B.; and Terkelsen, Bruce E., 3,706,338.
 Basche, Malcolm; Fantl, Roy; Galasso, Francis S.; Kuntz, Urban E.; and Schile, Richard D., 3,679,475.
 Beane, David J.; and Gastler, John H., 3,698,186.
 Biancardi, Frank R.; and Melikian, Gorken, 3,641,453.
 Biancardi, Frank R.; and Melikian, Gorken, 3,668,549.
 Blecherman, Sol S.; Ulion, Nicholas E.; and Packer, Louis L., 3,668,386.
 Bloomfield, David P.; and Olsson, William J., 3,649,360.
 Blum, Bernard Saul; and Kohn, Marvin Lee, 3,680,197.
 Boucher, Raymond R.; and Phipps, Charles F., Jr., 3,667,533.
 Brienza, Michael J., 3,644,742.
 Bronfin, Barry Robert; Burwell, Wayne Gregory; and Meinzer, Richard August, 3,701,045.
 Brown, Clyde O.; and Bullis, Robert H., 3,641,457.
 Brown, Clyde Owen, 3,681,709.
 Brown, Edgar E.; and Boettner, Raymond C., 3,660,177.
 Buzcek, Carl J.; Skolnick, Michael L.; and Freiberg, Robert J., 3,646,468.
 Buzcek, Carl J.; and Skolnick, Michael L., 3,646,469.
 Bullis, Robert H.; and Nighan, William, 3,668,550.
 Burwell, Wayne G.; and Quickle, Charles F., Jr., 3,694,770.
 Buswell, Richard F.; Nicholas, Peter G.; and Olsson, William J., 3,664,873.
 Carnell, Brian Leyland, 3,689,052.
 Colman, Michael E.; and Stearns, Charles F., 3,646,753.
 Copley, Stephen M.; Giamei, Anthony F.; Hornbecker, Merton F.; and Kear, Bernard H., 3,690,368.
 Cox, Arthur R.; and Allen, Marvin M., 3,677,830.
 Damlis, Nicholas, 3,666,376.
 Darrow, Donald C., 3,651,661.
 De Maria, Anthony J.; and Glenn, William H., 3,636,474.
 De Mattia, Victor A., Jr.; and Sansevero, Vincent J., Jr., 3,667,216.
 Devitt, John P., 3,700,509.
 Dixon, Thomas P.; and Worrell, Robert J., 3,677,218.
 Duchesneau, Jerome G.; and Schwartz, Robert A., 3,668,349.
 Duhl, David N., 3,700,433.
 Ebeling, Robert W., Jr., 3,698,191.
 Emanuelson, Roger C.; and Luoma, Warren L., 3,634,569.
 Emanuelson, Roger C.; Stewart, Robert C.; and Vine, Raymond W., 3,694,310.
 Emory, John M. G., Jr.; and Fattani, Joseph J., 3,643,430.
 Evans, Dennis J.; and Elam, Richard C., 3,676,085.
 Fassler, Michael H.; and Perron, James S., 3,698,467.
 Fassler, Michael H.; and Brinker, Norman E., 3,701,379.
 Fitting, Samuel E.; and Green, Gary W., 3,698,509.
 Franz, Thomas C., 3,668,013.
 Galasso, Francis S.; and Veltri, Richard D., 3,640,693.
 Galasso, Francis S.; Jacob, Bernarr A.; and Pinto, Jane P., 3,698,970.

Gardner, Fred M.; Gervais, Joseph R.; and Nettleton, Frank S., 3,668,457.
 Gerath, Francis C., 3,639,724.
 Giamei, Anthony F.; and Terkelsen, Bruce E., 3,700,023.
 Gilbreath, Dennis R., 3,643,107.
 Giner, Jose D.; and Moser, James R., 3,650,838.
 Glenn, William H., 3,700,307.
 Goldberg, Perry; and Segalman, Irwin, 3,706,203.
 Goodwin, Raymond Wendell, 3,650,094.
 Greaves, Wellington N., 3,655,430.
 Griffith, James J., 3,678,285.
 Grosh, James L., 3,676,246.
 Grosh, James L., 3,700,527.
 Hasbrouck, Augustus; and Lauck, Lawrence J., 3,702,681.
 Hasbrouck, Thad M., 3,667,491.
 Hausmann, George F., 3,654,569.
 Hayes, Charles W., 3,697,192.
 Hecht, Ralph J.; and Fenton, Richard J., 3,667,939.
 Hulse, Charles O., 3,643,728.
 Joslin, Frederick R., 3,647,674.
 Kegelman, Thomas D., 3,668,389.
 Kester, Frank L., 3,659,400.
 Kovacs, Mark A., 3,676,797.
 Kreider, Kenneth G., 3,699,623.
 Krutenat, Richard C., 3,639,151.
 Kuehl, Donald K.; and Smart, Raymond C., 3,632,063.
 Kuehl, Donald K.; Blackman, Arthur W.; and Glassman, Irvin, 3,704,184.
 Kupersmith, Bertram F., 3,633,088.
 Lary, Edmund C.; and Meyerand, Russell G., Jr., 3,681,710.
 Le Febvre, Clarence A., Jr., 3,698,192.
 Lenkeit, Carl Heinz; and Conklin, Cornelius Stephen, Jr., 3,675,418.
 Mack, Michael E., 3,675,151.
 Markowski, Stanley J., 3,701,255.
 Marsh, John, 3,690,602.
 Maxwell, Douglas H., 3,655,462.
 McAnally, William J., III, 3,637,332.
 McLafferty, George H.; and Wisner, George R., 3,637,296.
 McLafferty, George H., 3,665,336.
 McLafferty, George H., 3,706,939.
 Melikian, Gorken; and Biancardi, Frank R., 3,634,778.
 Melikian, Gorken; and Biancardi, Frank R., 3,648,194.
 Memery, James P., 3,652,139.
 Mitchell, James P.; and Brown, Bruce T., 3,662,960.
 Mitchell, James P.; and Cohen, Allan R., 3,667,232.
 Moore, Joseph B.; and Athey, Roy L., 3,669,180.
 Moore, Joseph B.; and Athey, Roy L., 3,698,219.
 Mulread, Richard C.; and Pinsley, Edward A., 3,699,471.
 Myers, Roderick H.; and Sharp, David L., 3,634,828.
 Owczarski, William A.; and Oblak, John M., 3,642,543.
 Owczarski, William A.; Oblak, John M.; and Paulonis, Daniel F., 3,676,225.
 Parkinson, Gerald W.; and Cutting, Jack R., 3,700,995.
 Paul, Roy D.; and Blocker, Edwin W., 3,658,581.
 Paulonis, Daniel F.; Duvall, David Scott; and Owczarski, William A., 3,678,570.
 Perley, Richmond, 3,701,996.
 Pike, Roscoe A., 3,695,916.
 Pinto, James C.; and Thompson, Ransom S., 3,662,957.
 Plowman, James S., 3,671,139.
 Post, Paul B., 3,644,898.
 Provenzano, James, Jr.; Saunders, John; and Monterose, Henry, 3,702,989.
 Quenneville, Raymond N., 3,631,951.
 Rannenber, George C., 3,699,777.
 Reiser, Carl A., 3,634,139.
 Rifkin, Ernest, 3,671,317.
 Russell, Cornelius R.; and Russell, Sid, 3,655,537.
 Sanderson, Robert A., 3,698,957.
 Scannell, Paul R.; La Force, Phil D.; and O'Connell, Wayne T., 3,675,425.
 Scola, Daniel A.; and Roth, Hilton A., 3,660,140.
 Setzer, Herbert J., 3,655,448.
 Shannon, Thomas E., 3,644,020.
 Sheldon, Donald E., 3,670,497.
 Shohet, Herbert N.; Magri, Joseph L.; and Primachuk, Edward R., 3,678,690.
 Shohet, Herbert N.; and Magri, Joseph L., 3,678,691.
 Simmons, Alfred E., Jr., 3,649,225.
 Skolnick, Michael L.; and Buczek, Carl J., 3,697,151.
 Skolnick, Michael L.; and Buczek, Carl J., 3,700,309.
 Smart, Raymond C., 3,669,065.
 Staley, Charles F.; and Staudt, Fredrick J., 3,645,608.
 Stargardter, Hans, 3,679,324.
 Stedman, James K.; and Cohen, Ronald, 3,704,172.
 Stone, Hilton F., Jr., 3,701,190.
 Sztela, Eugene J., 3,666,634.
 Thompson, Earl R.; and Lemkey, Franklin D., 3,671,223.
 Tien, John K.; and Gamble, Robert P., 3,677,835.
 Tien, John K.; and Copley, Stephen M., 3,678,988.
 Toni, Anselmo, 3,635,398.
 Trocciola, John C., 3,677,823.
 Tumavius, Julius W., 3,687,399.
 Ultee, Casper J., 3,706,942.
 Veltri, Richard D.; Merriam, Asaph U.; and Basche, Malcolm, 3,700,486.
 Vessel, Eugene D., 3,664,131.
 Vessel, Eugene D.; and Ebeling, Robert W., Jr., 3,664,132.
 Vine, Raymond W.; Watson, Paul R.; and Luoma, Warren L., 3,635,682.
 Wachner, Glenn C., 3,703,659.
 Wiegand, Walter J., Jr., 3,657,600.
 Wiegand, Walter J., Jr., 3,666,982.
 Williamson, John S., 3,706,201.
 Winfree, Jules P.; Todd, Herbert E.; and McComas, Charles C., 3,640,778.
 Winfree, Jules P., 3,647,647.
 Yarm, Jay Martin, 3,670,852.
 United Aircraft of Canada Limited: See—
 Strelshik, Arthur D., 3,706,512.
 United Aircraft Products, Inc.: See—
 Bathla, Pritam S.; and Simmons, Carl E., 3,677,334.
 DeMarco, Samuel J., 3,636,607.
 Fernandes, Joseph F.; and Coolidge, Anson S., 3,687,176.
 Hughes, Paul R., 3,651,863.
 Wunder, John E.; and Coolidge, Anson S., 3,676,987.
 United Artists Theatre Circuit, Inc.: See—
 Vetter, Richard H., 3,657,833.
 Vetter, Richard H., 3,682,533.
 United Bank of Denver National Association, mense: See—
 Webb, James R.; and Webb, Richard C., 3,653,038.
 United Brands Company: See—
 Gallagher, George F. X., Jr., 3,692,100.
 United Business Equipment Corporation: See—
 Snethen, Thomas H., 3,700,118.
 United Control Corporation: See—
 Asmussen, Daniel R., 3,676,659.
 Bateman, Charles Donald; and Noland, Lyle J., 3,686,626.
 Corey, Victor B., 3,686,937.
 Eide, Melvin O., 3,688,206.
 Thompson, Burton J.; and Eide, Melvin O., 3,641,414.
 United Data Services: See—
 Ingalls, Daniel H. H., Jr., 3,702,005.
 United Engineering and Foundry Company: See—
 Adair, James Richard, 3,658,274.
 Briggs, Albert Theodore; and Swisher, Eugene Henry, 3,670,551.
 Briggs, Albert Theodore, 3,695,542.
 Contaldo, Joseph; and Pripeton, George, 3,670,609.
 Greenberger, Joseph Irwin; and Ciochetto, Joseph James, 3,698,469.
 Schmiedberg, Winfried F., 3,635,066.
 Shumaker, Charles Storer, 3,651,679.
 Shumaker, Charles Storer, 3,700,157.
 Sieger, Maurice Paul, 3,640,334.
 Stone, Morris Denor, 3,651,675.
 Talbot, Howard Hubbell, 3,657,913.
 United Fabricating Company, Inc.: See—
 Bettinger, James H., 3,681,882.
 United Filtration Corporation: See—
 Bennett, Raymond G., 3,659,573.
 Wohnlich, Joseph F., 3,642,245.
 Wohnlich, Joseph F.; and Endsley, Donald L., 3,654,411.
 United Gas Industries Limited: See—
 Dransfield, Desmond; Bass, Patrick; White, Roy Ernest; and Braeken, Leslie Thomas, 3,676,876.
 Wade, Kenneth R., 3,674,410.
 United Gas Industries Limited, mesne: See—
 Painton, Claude Arthur, 3,699,697.
 United Glass Limited: See—
 Budd, Sydney Maurice, 3,656,922.
 United Industrial Syndicate, Inc.: See—
 Snow, Gerald A., 3,632,250.
 United Industrial Syndicate, Inc.; d/b/a Portland Company; division of United Industrial Syndicate Inc.: See—
 Bosworth, Delbert B.; and Goodridge, Ernest E., 3,677,439.
 United Kingdom Atomic Energy Authority: See—
 Ackroyd, Ronald Tunstall; and Perks, Maurice Arthur, 3,660,227.
 Baker, Allan, 3,635,792.
 Bank, Robert, 3,660,232.
 Barker, Geoffrey Cecil; Gardner, Arthur William; and Pope, Anthony Gerald, 3,644,824.
 Betts, Colin; and Collinson, Alfred Edward, 3,678,963.
 Birts, Leslie; and Challender, Ronald Scott, 3,702,281.
 Bowen, Dennis Herbert; Mattingley, Neville John; and Sambell, Ronald Alfred James, 3,646,908.
 Bowen, Dennis Herbert; Sambell, Ronald Alfred James; Lambe, Keith Albert Dale; and Mattingley, Neville John, 3,681,187.

Cairns, James Anthony; and Desborough, Colin Leonard, 3,704,371.
 Causer, Roy; Farren, John; Jones, Terence Leslie; Taylor, Brian Leslie; and Webster, Ronald Kerry, 3,698,819.
 Chubb, John Norman, 3,692,412.
 Clements, Henry George, 3,673,088.
 Coast, Geoffrey; and Morgan, Vernon, 3,656,566.
 Coodings, Anthony; and Leake, John Walgate, 3,702,409.
 Dugdale, Ronald Arthur; and Ford, Stanley Denis, 3,634,045.
 Dugdale, Ronald Arthur; Ford, Stanley Denis; and Maskrey, John Thomas, 3,678,334.
 Fowler, Eliot Patrick; and Greaves, Richard William, 3,683,205.
 Fowler, Eliot Patrick, 3,683,275.
 Freeman, James Harry, 3,689,766.
 Freeman, James Harry, 3,705,320.
 Gatley, John Andrew; and Jackson, George Oliver, 3,702,282.
 Gillies, George Marshall; and Littlechild, James, 3,698,697.
 Gough, John Richard Cox; Meaden, Geoffrey William; and Price, Michael Stuart Thomas, 3,668,284.
 Grant, John; and Fisher, Martin John, 3,661,163.
 Hardy, Clarence James; Lane, Edward Sydney; and Hannam, Mervyn John, 3,655,418.
 Hardy, Clarence James; and Holdoway, Michael Joseph, 3,704,147.
 Hayes, Michael Richard, 3,672,500.
 Healy, Thomas Victor; and Pilbeam, Alan, 3,703,451.
 Hills, Peter Robert; Spindler, Michael William; and Carley-Macaulay, Kenneth Wallace, 3,661,745.
 Hooper, Alan Thomas, 3,658,645.
 Horsley, Geoffrey Winton; and Burnett, Ronald Cyril, 3,641,227.
 Jilbert, Philip Harvey, 3,656,055.
 Jones, Philip Michael; and Walsh, Raymond Herbert, 3,674,636.
 Kandiah, Kathirkamathamby, 3,688,208.
 Kealy, Wellesley Ashe, 3,697,979.
 Linning, David Lees; and Cowking, Charles Brian, 3,676,296.
 Linning, David Lees, 3,680,627.
 Long, Geoffrey, 3,672,844.
 Long, Geoffrey, 3,681,032.
 MacBeth, Robert Victor, 3,649,469.
 Mc Cormick, Andrew, 3,641,339.
 Mills, Alfred Leonard; and Vivers, Robert William Jackson, 3,672,848.
 Newson, Ivan Henry; and Delve, Malcolm Hoban, 3,702,807.
 Rennie, Compton Alexander; Lockett, George Edward; and Hosegood, Samuel Brittan, 3,676,297.
 Rice, Graham; Whitby, Herbert C.; and Dunn, Peter Douglas, 3,688,083.
 Rigg, Shepherd, 3,659,541.
 Roach, Peter Francis; and Davidson, Daniel Fraser, 3,672,209.
 Royle, Joseph Kenneth; Grant, John; and Golder, Jack Alexander, 3,664,360.
 Sach, Roger Stuart; and Bromley, John, 3,642,513.
 Spooner, James Alfred; and James, Robin Harold, 3,658,310.
 Swinhoe, Ronald; and Hamer, Allan Norman, 3,693,959.
 Tippetts, John Russell; Golder, Jack Alexander; and Grant, John, 3,690,171.
 Watson, Christopher John Hamilton, 3,668,068.
 Watson, Christopher John Hamilton, 3,674,634.
 Wells, Frank Herbert; and Davey, Cyril Norman, 3,678,731.
 Wells, Frank Herbert; and Martin, Roger, 3,690,154.
 Wells, Henry; and Colclough, William James, 3,657,082.
 Williams, Albert Etheridge, 3,671,393.
 Woodhead, James Louis, 3,645,910.
 United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the: See—
 Palfreyman, Jack; and Middleton, Henry Edward, 3,675,294.
 United Kingdom of Great Britain and Northern Ireland, Minister of Aviation Supply in Her Britannic Majesty's Government of the: See—
 Clare, John Dickens; and Marsh, Stanley Bruce, 3,670,327.
 Hilsum, Cyril; and Rees, Huw David, 3,667,003.
 Paige, Edward George Sydney, 3,678,305.
 United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the: See—
 Benjamin, John; and Jones, John Michael, 3,648,288.
 Benjamin, John, 3,680,120.
 Collier, David John; and Hilsum, Cyril, 3,673,469.
 Haines, Derrick John, 3,647,268.
 Hiscocks, Stephen Edward Ralph, 3,688,018.
 Jamieson, James Barry, 3,643,431.
 Jones, John Ivor Parry, 3,678,485.
 Lawson, Graham John, 3,648,034.
 Phillips, Leslie Nathan, 3,669,158.
 Splatt, Reginald John Binston, 3,678,369.
 Townend, Lionel Henry, 3,656,302.
 Wilkinson, Roger Martin, 3,657,653.
 United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defense in Her Britannic Majesty's Government of the: See—
 Brint, Norman Trevor, 3,690,217.
 Brint, Norman Trevor, 3,700,394.
 Brint, Norman Trevor, 3,700,395.
 Brint, Norman Trevor, 3,690,216.
 Donaldson, John Taylor, 3,687,315.
 Evans, Christopher Charles, 3,677,713.
 Fowkes-Williams, John Eirwyn; Hawkins, Roy; Dawson, Hylton; and Smith, William, 3,706,353.
 Gardner, Peter, 3,706,494.
 Hall, John Matthew, 3,704,829.
 Hastings, Garth W., 3,706,611.
 Jones, John Ivor Parry, 3,699,801.
 Judd, Nigel Cecil William; Lloyd, Thomas; and Mann, Charles Trevor, 3,654,009.
 Whitney, Ian; White, Edward Bailey; and Rowland, Michael Roger, 3,700,511.
 United, Ltd.: See—
 Wright, Walton Reid, 3,636,582.
 United McGill Corporation: See—
 Horton, Richard W., 3,680,349.
 Maurer, Robert F.; Mc Vay, Robert D.; and Hummel, Donald L., 3,669,581.
 United McGill Corporation, mesne: See—
 Carroll, Harold E., 3,677,046.
 United Medical Laboratories Inc.: See—
 Michel, Raymond S.; and Podhora, Fred W., 3,674,011.
 United Merchants and Manufacturers, Inc.: See—
 Gordon, Alex F., 3,663,159.
 Lyons, Richard J.; and Dabrowski, Jan, 3,674,418.
 Roberts, Charles E., 3,645,078.
 United Nuclear Corporation: See—
 Rode, James A., 3,631,973.
 Rode, James A.; and Hubert, Paul W., 3,632,095.
 United Overhead Door Corporation: See—
 Landow, Charles D.; and Mutalipassi, Ettor, 3,705,505.
 United Piece Dye Works, The: See—
 Blount, Charles, Jr.; and Crandall, Nelson, 3,640,102.
 United Shoe Machinery Company AB: See—
 Forsgren, Kiell Rudolf, 3,655,213.
 United Shoe Machinery Corporation: See—
 Clarke, Terence J. L.; and Evans, Ivor, 3,684,628.
 Podell, Howard I., 3,631,702.
 United Specialties, Inc.: See—
 Martindill, Herman Y., 3,683,551.
 United States Banknote Corporation: See—
 Eberly, David H., Jr., 3,665,061.
 Eberly, David H., Jr., 3,681,991.
 Miller, Hobson, 3,682,558.
 Miller, Hobson, 3,686,125.
 United States Borax & Chemical Corporation: See—
 Arber, Scott Gordon; and Young, Oswald William John, 3,692,474.
 Dulat, Joseph, 3,704,146.
 Hamblin, Stephen Mark Lesley; Money, Anthony Patrick; Mackinnon, Ian Malcolm; and Trotter, John Edmund, 3,706,652.
 James, Derek Patrick, 3,649,314.
 Nies, Nelson P.; and Hulbert, Richard W., 3,649,172.
 Stibbs, Donald, 3,649,312.
 United States Catheter & Instrument Corporation: See—
 Imredy, Denis S.; and Schleipman, Fred P., 3,682,159.
 Klieman, Charles H., 3,635,223.
 Muller, Wolf F., 3,631,848.
 United States Ceramic Tile Company: See—
 Huber, William W.; and Dana, Richard L., 3,671,618.
 United States Envelope Company: See—
 Stone, Ralph K., 3,674,195.
 United States Filter Corporation: See—
 O'Cheskey, Theodore H., 3,643,806.
 United States Gypsum Company: See—
 Balinski, Henry A., 3,702,044.
 Baran, Donald H., 3,681,881.
 Conway, Donald J., 3,672,108.
 Deck, Lester T.; and Kupsky, Fredrick E., 3,672,111.
 Jansen, Charles L., Jr., 3,707,060.
 Lane, Marvin K., 3,652,309.
 Lane, Marvin K., 3,666,581.
 Nelson, Nels, 3,685,234.
 Roberts, James R.; and Roach, Heber C., 3,682,667.
 Vesichuroff, William C.; and Mustoe, Robert M., 3,694,298.
 Wise, John K., 3,657,853.
 United States Luggage Corporation: See—
 Sadow, Bernard D., 3,653,474.
 United States of America: See—
 Dion, Donald F., 3,689,770.
 Horst, Vander Johannes M. A., 3,694,356.

- Tallman, Charles V., 3,696,325.
 Wiesner, Karel; and McCluskey, Jarvis G., 3,687,937.
 Agriculture: See—
 Aceto, Nicholas C.; Naghschi, Joseph; and Komanowsky, Michael, 3,665,988.
 Arthur, Jett C., Jr.; and Harris, James A., 3,634,018.
 Arthur, Jett C., Jr., 3,645,869.
 Arthur, Jett C., Jr.; and Singh, Sujana, 3,676,056.
 Arthur, Jett C., Jr.; Singh, Sujana; and Hinojosa, Oscar, 3,677,692.
 Beal, Robert E.; and Eisenhauer, Roger A., 3,634,475.
 Beninate, John V.; Daigle, Donald J.; Drake, George L., Jr.; Reeves, Wilson A.; and Donaldson, Darrell J., 3,697,316.
 Berni, Ralph J.; Benerito, Ruth R.; McKelvey, John B.; Ward, Truman L.; and Soignet, Donald M., 3,644,082.
 Berry, David A.; Bunk, Albert R.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., 3,652,474.
 Berry, David A.; Bunk, Albert R.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., 3,658,739.
 Berry, Robert E.; Bissett, Owen W.; Wagner, Charles J., Jr.; and Patterson, Eldridge P., 3,672,909.
 Bickoff, Emanuel M.; Spencer, Roland R.; and Kohler, George O., 3,684,520.
 Blanchard, Eugene J.; Harper, Robert J., Jr.; Gautreaux, Gloria A.; and Reid, John D., 3,658,457.
 Blanchard, Eugene J.; Gautreaux, Gloria A.; and Harper, Robert J., Jr., 3,702,230.
 Bolin, Harold R., 3,634,128.
 Brenner, Walter; Goswami, Jagadish Chanda; and Rugg, Barry A., 3,663,158.
 Brown, Roger S.; and Rhodes, Philip L., 3,685,100.
 Bruno, Joseph S.; Harper, Robert J., Jr.; and Reid, John D., 3,639,097.
 Buchanan, Russell A.; and Russell, Charles R., 3,673,136.
 Bunk, Albert R.; Bennett, Bailey; Berry, David A.; Parkin, Bernard A., Jr.; Schuller, Walter H.; and Lawrence, Ray V., 3,652,467.
 Bunk, Albert R.; Bennett, Bailey; Berry, David A.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., 3,681,268.
 Cais, Michael; and Frankel, Edwin N., 3,632,614.
 Chance, Leon H.; Leonard, Ethel K.; and Drake, George L., Jr., 3,636,088.
 Chance, Leon H.; and Moreau, Jerry P., 3,639,144.
 Chance, Leon H.; and Moreau, Jerry P., 3,654,274.
 Christianson, Donald D.; Stringfellow, Arthur C.; and Wall, Joseph S., 3,661,593.
 Ciegler, Alex; and Hou, Ching Tsang, 3,666,630.
 Conner, Charles J., 3,671,178.
 Conner, Charles J., 3,702,753.
 Conner, Charles J., 3,705,004.
 Connick, William J., Jr.; and Ellzey, Samuel E., Jr., 3,655,435.
 Cooper, William C., 3,663,199.
 Daigle, Donald J.; Chance, Leon H.; and Drake, George L., Jr., 3,694,256.
 Diamond, Martin J.; and Needles, Howard L., 3,681,312.
 Diamond, Martin J.; and Needles, Howard L., 3,681,314.
 Donaldson, Darrell J.; Normand, Floyd L.; and Drake, George L., Jr., 3,698,854.
 Ellzey, Samuel E., Jr.; Connick, William J., Jr.; Reeves, Wilson A.; and Drake, George L., Jr., 3,655,413.
 Feinberg, Bernard, 3,689,282.
 Finley, John W., 3,702,255.
 Fox, Jay B., Jr., 3,666,105.
 Franklin, William E.; Mack, Charles H.; and Rowland, Stanley P., 3,632,298.
 Friedman, Mendel, 3,669,610.
 Gensler, Walter J., 3,654,324.
 Gensler, Walter J., 3,699,146.
 Gonzales, Elwood J.; Berni, Ralph J.; and Benerito, Ruth R., 3,645,667.
 Green, Nathan; and Keller, John C., 3,702,358.
 Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., 3,632,855.
 Harper, Robert J., Jr.; Bruno, Joseph S.; and Gautreaux, Gloria A., 3,676,052.
 Hedin, Paul A.; Miles, Lavenia R.; Minyard, James P.; and Thompson, Alonzo C., 3,657,414.
 Hedrick, Glen W.; and Magne, Frank C., 3,636,070.
 Hedrick, Glen W.; Summers, Hugh B., Jr.; and Lewis, John B., 3,654,256.
 Jacks, Thomas J.; and Yatsu, Lawrence Y., 3,661,710.
 Jones, Duane A.; Fanta, George F.; and Burr, Robert C., 3,669,915.
 Jurd, Leonard, 3,661,890.
 Kaufman, Vern F.; Klose, Alvin A.; and Pool, Morris F., 3,694,856.
 Knoepfler, Nestor B.; and Koenig, Paul A., 3,645,814.
 Koch, Peter, 3,680,219.
 Kotter, James I.; Salaun, Harold L., Jr.; and Brown, Roger S., 3,696,603.
 Lewis, John B.; and Hedrick, Glen W., 3,673,240.
 Lewis, John B.; and Hedrick, Glen W., 3,702,338.
 Lloyd, E. J.; and Childs, Rex E., 3,662,430.
 Lofton, John T.; Harper, Robert J., Jr.; and Blanchard, Eugene J., 3,666,400.
 Lofton, John T.; Harper, Robert J., Jr.; and Blanchard, Eugene J., 3,676,207.
 Lovegren, Norman V.; Gray, Marie S.; and Feuge, Reuben O., 3,663,479.
 Lowe, Edison; and Durkee, Everett L., 3,634,103.
 Maerker, Gerhard; and Kenney, Harold E., 3,701,802.
 Marvel, Carl S.; and Chow, Roberta C. L., 3,640,927.
 Mayer, Mayer, Jr.; Kotter, James I.; Salaun, Harold L., Jr.; and Brown, Roger S., 3,696,600.
 Mayer, Mayer, Jr.; and Baril, Albert, Jr., 3,707,024.
 McDonald, Kent A.; and Cox, Roger G., 3,664,180.
 Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,644,478.
 Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,661,936.
 Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,663,582.
 Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,694,397.
 Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,704,257.
 Mueller, William J.; Berry, David A.; Halbrook, Noah J.; Schuller, Walter H.; and Lawrence, Ray V., 3,634,352.
 Mustakas, Gus C.; Albrecht, William J.; and Bookwalter, George N., 3,639,129.
 Needles, Howard L.; and Wasley, William L., 3,642,972.
 Nonaka, Masahide, 3,669,690.
 Okazaki, William; Purchase, H. Graham; and Witter, Richard L., 3,642,574.
 Owens, Lowell D., 3,672,862.
 Parkin, Bernard A., Jr.; Schuller, Walter H.; and Lawrence, Ray V., 3,663,523.
 Pfeffer, Philip E.; and Silbert, Leonard S., 3,652,612.
 Pittman, Allen G.; and Wasley, William L., 3,632,556.
 Pittman, Allen G.; and Wasley, William L., 3,637,791.
 Pittman, Allen G.; and Wasley, William L., 3,639,156.
 Pittman, Allen G.; and Wasley, William L., 3,653,956.
 Pittman, Allen G.; and Wasley, William L., 3,654,244.
 Pittman, Allen G.; and Wasley, William L., 3,674,820.
 Pittman, Allen G.; and Wasley, William L., 3,698,856.
 Pittman, Allen G.; and Wasley, William L., 3,701,752.
 Pittman, Allen G.; and Wasley, William L., 3,701,792.
 Pittman, Allen G.; and Wasley, William L., 3,702,859.
 Pittman, Allen G.; and Wasley, William L., 3,702,870.
 Pomeranz, Yeshajahu; and Finney, Karl F., 3,679,433.
 Princeton, Lambertus H., 3,681,099.
 Rhodes, Philip L.; and Brown, Roger S., 3,678,537.
 Roberts, Earl J.; Rowland, Stanley P.; and Brannan, Mary Ann F., 3,647,352.
 Roberts, Earl J.; Brannan, Mary Ann F.; and Rowland, Stanley P., 3,702,232.
 Roberts, John G., 3,660,012.
 Robertson, George H., 3,702,264.
 Rockland, Louis B., 3,635,728.
 Rusca, Ralph A., 3,646,744.
 Schuller, Walter H.; Minor, Jacob C.; Block, Seymour S.; and Lawrence, Ray V., 3,636,215.
 Schuller, Walter H.; and Lawrence, Ray V., 3,637,600.
 Schuller, Walter H.; Kanno, Hideo; and Lawrence, Ray V., 3,661,933.
 Serota, Samuel; and Rothman, Edward S., 3,666,781.
 Silbert, Leonard S., 3,652,682.
 Silbert, Leonard S., 3,666,820.
 Sinclair, Richard G.; Berry, David A.; Schuller, Walter H.; and Lawrence, Ray V., 3,663,545.
 Springer, Edward L.; and Eslyn, Wallace E., 3,646,196.
 Stanley, William L., 3,672,955.
 Stephens, Howard L.; and Reed, Thomas F., 3,645,940.
 Storton, Alexander J.; and Bistline, Raymond G., Jr., 3,632,517.
 Takeda, Hiroshi; Schuller, Walter H.; Lawrence, Ray V.; and Block, Seymour S., 3,663,593.
 Takeda, Hiroshi; Schuller, Walter H.; Lawrence, Ray V.; and Block, Seymour S., 3,706,762.
 Thorsten, Walter J., 3,632,299.
 Velasco, James, 3,631,725.
 Vigo, Tyrone L.; Margavio, Matthew F.; and Welch, Clark M., 3,698,857.
 Vigo, Tyrone L.; Margavio, Matthew F.; and Welch, Clark M., 3,702,754.
 Wagner, Joseph R., 3,642,494.
 Wasley, William L.; and Pittman, Allen G., 3,706,594.
 Weaver, Merle L.; and Hautala, Earl, 3,669,685.

- Whitfield, Robert E.; Pittman, Allen G.; and Wasley, William L., 3,632,391.
 Yatsu, Lawrence Y.; Jacks, Thomas J.; and Hensarling, Thomas P., 3,702,857.
 Yokoyama, Henry, 3,684,530.
 Air Force: See—
 Alexander, Milton; Garrett, John W.; and Riepenhoff, Ralph R., 3,693,265.
 Allinikov, Sidney, 3,698,234.
 Armington, Alton F.; and O'Connor, John J., 3,671,200.
 Arnold, Fred E.; and Van Deusen, Richard L., 3,632,414.
 Arnold, Fred E., 3,702,326.
 Ball, James V., 3,656,340.
 Barry, James D.; and Boney, William E., III, 3,704,428.
 Bennett, John E. R., 3,651,550.
 Bilow, Norman, 3,632,441.
 Bilow, Norman; and Rosenberg, Harold, 3,640,959.
 Bilow, Norman; and Rosenberg, Harold, 3,640,963.
 Birnbaum, Milton; and Fincher, Curtis L., 3,648,192.
 Bleikamp, Roy H., Jr., 3,703,844.
 Boebel, Carl P.; and Stevenson, Gary E., 3,653,942.
 Boes, David J., 3,678,145.
 Boothe, Willis A.; and Bottone, Salvatore, Jr., 3,640,300.
 Brown, John P., 3,703,942.
 Browning, Charles E., 3,702,318.
 Browning, Charles E., 3,705,875.
 Bush, Henry J., 3,641,440.
 Carr, Paul H., 3,634,774.
 Champetier, Robert J.; and Kan, Hung-Kuen A., 3,634,027.
 Charleville, Joseph L.; De Tienne, Mart E.; and Lammert, Charles W., 3,670,998.
 Christian, John B., 3,642,626.
 Christian, John B., 3,658,709.
 Clow, William L.; Benzing, Robert J.; and McConnell, Bobby D., 3,674,690.
 Corben, Leo D.; Kammerer, William T.; and Shepp, Allan, 3,671,246.
 Cormier, Arthur R., 3,653,016.
 Costianes, Peter J., 3,690,234.
 Coyer, Robert D.; and Weigel, Robert M., 3,704,466.
 Cromwell, Douglas E., 3,692,082.
 Crosswy, Frank L.; and Kalb, Henry T., 3,695,761.
 Curran, Edward T.; and Stull, Frank D., 3,667,233.
 D'Alelio, Gaetano F., 3,694,406.
 Dalton, A. Stanley, 3,642,312.
 Davis, James G., 3,677,065.
 Day, Richard A.; French, William E.; and Riley, Michael A., 3,662,244.
 de Learie, Frederic C., 3,700,800.
 De Vito, Peter A., 3,701,020.
 Denny, Hugh W., 3,652,959.
 DePasquale, Ralph J.; and Tamborski, Christ, 3,637,866.
 Deradoorian, Bagdasar, 3,633,270.
 Digges, Kennerly H., 3,677,360.
 Dow, Norris F., 3,634,863.
 Drane, Charles J., Jr.; and Melvenna, John F., Jr., 3,704,464.
 Dugger, Cortland O., 3,674,455.
 Durran, Donald A.; and Platus, Daniel H., 3,690,596.
 Egli, Werner H.; and Erickson, Donald J., 3,691,848.
 Eklund, Phillip R., 3,640,591.
 Ezekiel, Herbert, 3,635,675.
 Ezekiel, Herbert M., 3,671,192.
 Farmer, William M., 3,704,053.
 Feldmanis, Carl J., 3,651,865.
 Fisher, Mahlon B., 3,641,352.
 Frankel, Milton B.; Witucki, Edward F.; and Rushworth, Ronald, 3,636,060.
 Friedman, Jerome D., 3,659,101.
 Gebel, Radames K. H., 3,652,154.
 Geisler, Robert L., 3,706,608.
 Georgian, Fieftorios J., 3,702,478.
 Golubovic, Aleksandar, 3,634,424.
 Gordon, Hayden S., 3,641,446.
 Gray, Bobby R., 3,644,747.
 Grimes, Dale M., 3,662,387.
 Guzdar, Adi R.; Erickson, Alve J.; and Harvey, Andrew C., 3,662,524.
 Hall, James R., 3,693,909.
 Hanson, Donald W.; and Mifflin, Ralph W., 3,699,570.
 Harris, William C.; and Magnante, Frank A., 3,661,443.
 Hedberg, Frederick L.; and Rosenberg, Harold, 3,678,088.
 Hoeflinger, Richard P., 3,677,079.
 Hoffman, Herbert J., 3,633,434.
 Inouye, Shingo; and Saul, George, 3,634,590.
 Jauvits, Harvey I., 3,641,523.
 Jauvits, Harvey I., 3,646,585.
 Jauvits, Harvey I., 3,656,126.
 Johnson, Richard L.; and Siegel, Bernard, 3,634,040.
 Johnston, Sidney F., Jr., 3,633,408.
 Katz, Joel, 3,634,772.
 Klopp, John H., 3,642,250.
 Klopp, John H., 3,642,300.
 Knausenberger, George E., 3,702,078.
 Koller, William B.; Higgins, Robert B.; and Haylett, James W., 3,702,481.
 Kozma, Adam; Leith, Emmett N.; and Massey, Norman G., 3,637,290.
 Kramer, Otis G., 3,706,226.
 Kroemer, Karl Heinrich Eberhard, 3,670,573.
 Krupa, John Eugene, 3,662,286.
 Leger, James E., 3,670,999.
 Leidenfrost, Wolfgang, 3,672,205.
 Lennert, Andrew E.; Crosswy, Frank L.; and Kalb, Henry T., 3,671,112.
 Levi, Mark W., 3,644,803.
 Lind, James N., 3,648,287.
 Lohmann, Arthur M.; Spurbeck, King; and Burg, Raymond H., 3,706,282.
 Luce, John S., 3,663,852.
 Lux, Foss Britton, 3,671,729.
 Macknik, Louis S.; and Kissell, Kenneth E., 3,678,279.
 Madle, Peter J., 3,665,096.
 Marcum, Alfred L., Jr.; Burns, Marvin; and Rodzen, Richard A., 3,705,426.
 Marggraf, Kurt A.; and Metzger, Ernest, 3,672,232.
 Marraro, Robert V., 3,687,816.
 Martina, Eugene F., 3,688,118.
 Mazdiyasi, Khodabakhsh S.; Dolloff, Richard T.; and Smith, Jonathan S., II, 3,647,364.
 McKnight, John R.; Ballay, Joseph M.; Fabbro, Lawrence L.; and Alexander, James M., Jr., 3,633,326.
 Midolo, Lawrence L., 3,677,337.
 Mifflin, Ralph W.; Wheeler, Joseph P.; and Massoud, Joseph T., 3,641,433.
 Miller, Kenneth H., 3,652,872.
 Miller, Leroy J., 3,637,424.
 Mitchell, James H.; and Muegggenburg, Hans H., 3,664,588.
 Murray, Kermon, 3,654,216.
 Nelson, Loren D.; and Silverman, Bernard A., 3,659,785.
 Nicolson, Alexander M.; and Ross, Gerald F., 3,634,755.
 Olcott, Eugene L., 3,694,883.
 Peters, Ignatius G., 3,673,107.
 Peterson, Richard G., 3,656,662.
 Phillips, Calvert F., Jr., 3,689,922.
 Picklesimer, Lewellyn G., 3,687,908.
 Randle, Walter N.; Spieth, Howard H.; and English, William D., 3,673,871.
 Ray, James D.; Steingiser, Samuel; and Cass, Robert A., 3,671,411.
 Reinhart, Theodore J., Jr., 3,687,701.
 Rex, George A., 3,687,558.
 Richard, David J., 3,680,127.
 Rosenthal, Sidney, 3,640,169.
 Rueff, Theodore O., Jr., 3,659,219.
 Ruf, Franz X.; Chase, Wayne R.; and Prell, Raymond A., 3,703,881.
 Saul, George, 3,642,595.
 Saylak, Donald; and Karabela, Arthur E., 3,650,858.
 Schneider, Marion F.; and Breen, Edward L., 3,678,275.
 Semenza, Eugene, 3,703,866.
 Shadle, Paul W., 3,699,577.
 Shelton, William L., 3,704,370.
 Slobodnik, Andrew J., Jr., 3,633,977.
 Slobodnik, Andrew J., Jr., 3,634,698.
 Slobodnik, Andrew J., Jr., 3,680,009.
 Smollen, Leonard E.; Larson, Ralph I., Jr.; and Karr, Gerald H., 3,633,984.
 Solomon, Irvine J.; Keith, James N.; and Kacmarek, Andrew J., 3,634,483.
 Spencer, Donald J.; Mirels, Harold; Jacobs, Theodore A.; and Gross, Rolf W. F., 3,688,215.
 Stansell, Marion J.; and Stansell, Shelby J., 3,648,159.
 Stansell, Marion J.; and Cheek, Chandler S., 3,658,679.
 Stephenson, William B., 3,648,473.
 Stevens, Emerson W., 3,660,981.
 Stockham, John D.; Townsend, Lawrence B.; Ohlhaber, Ronald L.; and Scopelitte, Thomas M., 3,641,320.
 Stout, Robert L., 3,637,570.
 Sues, Lawrence B., 3,641,515.
 Sullivan, Harold G., 3,671,672.
 Talley, William H., 3,703,891.
 Taylor, John W., Jr., 3,706,989.
 Telier, Gilbert F., 3,703,908.
 Thursby, William R., Jr., 3,652,152.
 Tiner, Nathan A.; and Muller, Andrew N., 3,642,519.
 Tingley, Frederick M., 3,673,942.
 Triplett, Milton J., 3,693,423.
 Uhrig, Edward O., 3,706,994.
 Uhrig, Jerome W., 3,701,157.
 Uhrig, Jerome W., 3,702,479.
 Van Patten, Robert E., 3,672,219.
 van Zyl, Bernard; and Hoch, Robert L., 3,648,610.

Vanderveen, John E.; and Bartholomew, Hans B., 3,658,210.
 Vass, Edward J.; Braun, Richard H.; and Platt, Conrad R., 3,690,255.
 Vickland, Clayton W., 3,677,011.
 Walton, Roger H., 3,703,870.
 Wesson, Jerry J.; and Boulter, Thomas W., 3,678,859.
 Whitehead, Thomas W., Jr., 3,659,236.
 Wilson, Quintus C., 3,678,387.
 Wise, Joseph F., 3,690,953.
 Wolverton, Billy C., 3,634,278.
 Wurm, Karl, 3,639,251.
 Zwirn, Robert; Johnson, Ralph E.; and Sacks, Jacob M., 3,702,405.
 Air Force, mesne: See—
 Breed, Laurence W.; Elliott, Richard L.; and Rosenberg, Harold, 3,702,317.
 Cardwell, Gilbert I., Jr., 3,671,773.
 Dattah, John H.; Bell, James C.; Vorachek, Jerome J.; Bezbatchenko, John W.; Biecker, George A.; Barton, James A.; Gordon, Robert C.; and Kirschner, Gerald D., 3,680,129.
 De Pierre, Vincent; Male, Alan T.; and Saul, George, 3,693,419.
 Donoghue, William J., 3,673,430.
 Eaton, Bruce, 3,640,174.
 Hampel, Daniel; and Lerch, Joseph Bryan, 3,671,783.
 Kay, Byron L.; and Thurn, Walter H., Jr., 3,670,993.
 Kuno, Hiromu J.; Berson, Bertrand E.; and Reynolds, James F., 3,668,552.
 Setnik, Harry A., 3,652,024.
 Staehlin, John H.; and Peon, Gilbert A., 3,640,168.
 Timperman, Eugene L., 3,638,884.
 Wolf, Joachim E., 3,634,859.
 Army: See—
 Aaron, Herbert S.; and Ferguson, Clyde Parker, Jr., 3,694,464.
 Aaronson, Henry A.; Schwartz, Frank R.; and Sukornick, Bernard, 3,636,882.
 Allen, Henry C., 3,695,952.
 Alouisa, Frank B., 3,705,523.
 Amberger, Donald J.; and Celentano, Robert A., 3,678,362.
 Angello, Joseph P., 3,654,544.
 Apstein, Maurice, 3,663,845.
 Apstein, Maurice; Blomgren, Evert; Keehn, George R.; Andrews, Laurence M.; and Rabinow, Jacob, 3,698,323.
 Arons, Gilbert N., 3,672,975.
 Artioli, Louis J.; and Savioli, Giulio V., 3,645,160.
 Arutunian, Gregory; and Wilburn, David K., 3,688,574.
 Ayers, Orval E.; and White, Niles C., 3,662,555.
 Bailey, John P.; and Muckelroy, William L., 3,691,497.
 Baldini, Luigi F., 3,662,686.
 Barnett, Charles W.H., 3,641,936.
 Bartilson, Benjamin M.; and Francis, Gerald A., 3,700,010.
 Bechtold, George W.; Derr, Vernon F.; and Wiltse, James C., 3,699,353.
 Beeker, Charles W.; and Crabtree, Royale R., 3,647,170.
 Benson, Harvey R.; and Ashley, Milton V., Jr., 3,695,142.
 Berlin, Aaron S.; Little, Vincent C.; and Leadore, Toney, 3,690,258.
 Berlin, Aaron S.; and Little, Vincent C., 3,705,551.
 Bernstein, Marvin, 3,657,076.
 Beukers, John M.; and Williams, Christian B., 3,671,968.
 Bigelow, Hugh A., 3,688,556.
 Blakeslee, A. Eugene; Foster, Luther M.; and Plaskett, Thomas S., 3,673,064.
 Bobinski, Jack; and Picard, Jean P., 3,706,280.
 Bowling, George W., 3,684,251.
 Branovich, Louis E.; Fitzpatrick, William B. P.; and Long, Martin L., Jr., 3,692,566.
 Brenner, Morris, 3,665,749.
 Brown, Donald, 3,668,590.
 Brumfield, Richard S., 3,633,575.
 Buchanan, James F.; and La Fever, Clifford E., 3,641,869.
 Bush, Clarence C., 3,680,406.
 Bush, Clarence C., 3,706,228.
 Bushey, Donald F., 3,677,133.
 Caldwell, James M.; Day, William R.; and Keating, Thomas J., 3,689,830.
 Caldwell, Larry V.; and Miller, Brian S., 3,706,920.
 Campagnuolo, Carl J., 3,686,520.
 Campi, Anthony V.; and Gray, Bruce H., 3,634,829.
 Carlson, Robert J.; and Reymann, Royal A., Jr., 3,673,362.
 Carmody, Michael A., 3,686,633.
 Carter, Vondell, 3,667,297.
 Cashman, Harland J., Jr., 3,673,570.
 Cason, Charles M., III, 3,706,050.
 Christians, John A.; and Pannel, Otis R., 3,653,355.
 Cindrich, Ivan, 3,646,335.
 Coffield, George C., Jr., 3,677,588.
 Corey, Earl E.; Tuft, Richard A.; and Woodward, Jason H., 3,706,022.
 Csizmar, John R.; and Hebeler, Herbert A., 3,687,000.
 Cuculis, John J.; Meyer, Howard G.; Sim, Van M.; and Sternberger, Ludwig A., 3,642,981.
 D'Andrea, Guiliano, 3,677,879.
 David, Charles E.; and Wood, Wallace E., 3,646,457.
 De Clerk, Joseph L.; and Weinstock, Martin, 3,657,534.
 Dee, William C.; and Sylvester, David, 3,691,952.
 Donadio, Vincent J., 3,695,310.
 Doris, Thomas A., Jr., 3,677,842.
 Dorko, Ernest A., 3,657,363.
 Doty, Donald B.; and Kugler, Heinz W., 3,667,471.
 Duncan, William A.; and Murfree, James A., Jr., 3,665,708.
 Durand, Philip E., 3,665,514.
 Egolf, David P.; and Campagnuolo, Carl J., 3,642,018.
 Eig, Merrill, 3,641,870.
 Eig, Merrill; and Scavuzzo, John J., 3,677,063.
 Ellis, Paul H.; Kibler, Ralph J.; and Kramer, Richard R., 3,641,691.
 Engel, Lawrence J.; and Gardiner, John Brooke, 3,663,323.
 Engel, Lawrence J., 3,666,576.
 Evans, David G., 3,689,776.
 Fagan, Lloyd D.; Hadden, David R., Jr.; Haratz, David; and Sarlo, Lorenz M., 3,646,526.
 Ferguson, Harry R., 3,706,610.
 Ferrara, Peter B., 3,666,898.
 Ferrara, Peter B., 3,701,498.
 Fierston, Stanley A.; and Nelson, Bruce K., 3,646,554.
 Figge, Irving E., 3,645,833.
 Figge, Irving E., 3,657,059.
 Figge, Irving E.; and Karp, Bernard L., 3,689,345.
 Fink, Robert H.; and Palm, Eugene J., 3,677,010.
 Finkelstein, Leo; and Blissel, John J., 3,639,108.
 Firester, Arthur H., 3,646,358.
 Fisher, Harold M., 3,666,575.
 Flad, Friedrich W., 3,646,371.
 Flad, Friedrich W., 3,654,496.
 Flatau, Abraham, 3,645,694.
 Forsten, Irving; and Buckley, William J., Jr., 3,665,803.
 Freeman, Donald J.; Fulkerson, Ambrose A.; Grall, Kenneth J.; and Pearson, Samuel J., 3,695,949.
 Freibergs, Elmer, 3,681,715.
 Furlani, John J.; Davis, Harry J.; and Ingersoll, Philip, 3,653,324.
 Gadomski, Walter A.; and Marziano, Benedetto A., 3,687,078.
 Gazza, George E.; and Messier, Donald R., 3,681,011.
 Genden, Seymour A., 3,645,810.
 Gericke, Otto R., 3,698,240.
 Ghose, Tarun K., 3,642,580.
 Giglio, Dominick; and Wade, Glen, 3,695,766.
 Gikow, Emanuel, 3,686,591.
 Gilson, Russell A.; Kiss, William F.; and Organic, Vincent J., 3,656,002.
 Gilson, Russell A., 3,673,492.
 Gisser, Henry; and Portnoy, Seymour, 3,642,631.
 Gisser, Henry; and Mertwoy, Helen E., 3,687,922.
 Gleason, Thomas J., 3,688,218.
 Glendinning, William B.; and Pharo, Wellington B., 3,672,980.
 Gluskin, Richard S., 3,666,263.
 Goldberg, Ira I.; Marasco, Paul M.; and Pfleger, Kenneth R., 3,686,478.
 Goldberg, Lawrence H., 3,643,027.
 Gonzalez, Xavier F., 3,700,930.
 Gotschlich, Emil C., 3,636,192.
 Gotttron, Richard N.; and Gaylord, Wilmer, 3,706,227.
 Grandy, Andrew J.; and Goldstein, Sidney, 3,633,509.
 Graves, David J., 3,689,948.
 Grinoch, Abraham, 3,667,040.
 Gutleber, Frank S., 3,701,026.
 Guttwein, Gunter K.; Ballato, Arthur D.; and Lukaszek, Theodore J., 3,694,677.
 Hagler, Thomas A.; and Heithaus, William C., 3,701,054.
 Hall, Kilmer L., 3,646,263.
 Hall, Marvin J., 3,680,482.
 Harp, Richard D.; and Williams, Lyle G., 3,696,561.
 Harris, Fred T.; and Resler, Edwin L., Jr., 3,672,387.
 Hartman, Richard L., 3,672,218.
 Haug, Edward J., Jr., 3,677,135.
 Heiligman, Fred, 3,645,759.
 Hellwig, Helmut W., 3,668,293.
 Hellwig, Helmut W., 3,693,008.
 Henry, David W., 3,642,899.
 Hildebrandt, Floyd J.; and Chovanec, John J., 3,685,347.
 Hill, Wayne E., 3,698,458.
 Hodes, Harvey A.; Sobieski, James F.; and Zerner, Michael C., 3,650,909.
 Holmes, Allen B., 3,642,017.
 Horsey, Eleanor F.; Warwick, Joseph W.; and Rauhut, Horst W., 3,657,027.
 Horwath, Tibor G., 3,678,453.

Hrivnak, George A.; and Organic, Vincent J., 3,699,584.
 Hubbuch, Theodore; Murfree, James A., Jr.; Duncan, William A.; Sandlin, Billy J.; and Nappier, Henry A., 3,664,969.
 Hubbuch, Theodore N.; Murfree, James A., Jr.; Duncan, William A.; Sandlin, Billy J.; and Nappier, Henry A., 3,667,231.
 Huget, Eugene F.; Brauer, Gerhard M.; Kumpula, John W.; and Civjan, Simon, 3,675,327.
 Hulteen, Stanley C., 3,642,237.
 Jacobs, Harold; Kerecman, Albert J.; and Schumacher, James D., 3,691,478.
 Jaslow, Howard, 3,665,861.
 Jasper, Louis J., Jr., 3,654,565.
 Jennings, Thomas A.; and McNeill, William, 3,705,998.
 Jennings, Walter B., Jr., 3,701,048.
 Johnson, Henry V., 3,674,225.
 Johnston, Stephen L., 3,706,048.
 Jones, Frank D., 3,672,623.
 Jones, Howard S., Jr.; Witte, Joseph J.; and Morlock, Harry K., 3,680,130.
 Jurkowski, Chester P.; and Kruzal, Mitsie W., 3,667,343.
 Katsuren, Roy I.; and Salisbury, Lloyd L., 3,692,161.
 Kaye, Seymour M.; and Jackson, Bossie, Jr., 3,690,972.
 Kelem, Lester S.; and Reade, Stephen E., 3,686,565.
 Kelem, Lester S.; and Reade, Stephen E., 3,706,049.
 Kilduff, Timothy J., 3,677,974.
 King, Leonard L., 3,662,647.
 Kisatsky, Paul J.; and Szabo, Louis R., 3,645,633.
 Klausner, Arnold, 3,697,988.
 Klayman, Daniel L.; and Gilmore, W. Franklin, 3,655,715.
 Kubanoff, Jacob H., 3,665,463.
 La Forgia, Salvatore F., 3,706,487.
 Laible, Roy C., 3,641,638.
 Lamb, James J., 3,688,189.
 Lampi, Rauno A.; Hu, Kwoh H.; and Osborne, Richard F., 3,678,276.
 Lane, George A.; Smith, William Arthur; Dollman, Stephen C.; Kaye, Seymour M.; and Taylor, Francis R., 3,673,013.
 Lasser, Howard G., 3,706,645.
 Lebzelter, Joseph, 3,691,902.
 Lerman, Russell E., 3,705,552.
 Levy, Marilyn, 3,672,766.
 Lewis, David W., 3,667,394.
 Lieberman, Stuart I., 3,688,222.
 Little, Little J.; and Hunter, Joe S., 3,646,818.
 Long, James A., 3,705,550.
 Lynch, Charles L., 3,690,101.
 Lyon, Jerry H., 3,634,636.
 Mabrouk, Ahmed F.; and Jarboe, Jerry K., 3,634,097.
 MacDonald, Hugh D.; and Doebley, Eugene J., 3,698,183.
 Magnuson, Roland A., 3,706,255.
 Mapes, James E., 3,687,519.
 Marcus, Ira R., 3,666,925.
 Marovich, Frank A.; Bordeaux, Jean; and Sawtelle, Donald W., 3,694,321.
 Mary, Donald J.; and Davis, Harry J., 3,654,553.
 Mary, Donald J., 3,681,690.
 Matulis, Albert J., 3,676,274.
 Maxwell, Donald E.; and Mazzochi, Roger W., 3,646,484.
 Mayo, Henry C., 3,653,101.
 McDaniel, Donald M., 3,662,877.
 McKague, Elbert L., Jr.; and Cooper, Walter C., Jr., 3,663,783.
 McKnight, William B., 3,651,425.
 Meek, James M., 3,683,387.
 Meier, Eugene P.; Lenz, David E.; and Sternberger, Ludwig A., 3,697,645.
 Merriam, Mylon, 3,667,948.
 Merritt, George J., 3,634,265.
 Messier, Donald R.; and Gazza, George E., 3,681,010.
 Messina, Joseph F.; and Gisser, Henry, 3,639,241.
 Messina, Joseph F.; and Gisser, Henry, 3,640,859.
 Messina, Joseph F.; and Gisser, Henry, 3,664,956.
 Messina, Joseph F.; and Gisser, Henry, 3,664,958.
 Messina, Joseph F.; and Gisser, Henry, 3,689,411.
 Messina, Joseph F.; and Gisser, Henry, 3,691,074.
 Milanowski, Floyd J.; and Bowman, Arthur J., Jr., 3,662,607.
 Miller, Donald, 3,698,322.
 Miller, Donald, 3,698,651.
 Monti, Renzo J., 3,676,901.
 Morrison, Clyde A.; Wortman, Donald E.; and Farrar, Ruben T., 3,667,068.
 Murfree, James A., Jr.; Hubbuch, Theodore N.; Nappier, Henry A.; Duncan, William A.; and Sandlin, Billy J., 3,667,219.
 Nelson, Henry O.; King, Howard F.; and Dale, Louis D., 3,632,067.
 Nimylowycz, Osyp, 3,666,215.
 Novak, Thaddeus J.; and Poziomek, Edward J., 3,642,449.
 Orrell, Irving F., Jr., 3,678,194.
 Otto, Robert J.; Sinclair, Alex H.; Reynolds, Ralph K.; and Neargardner, Robert F., 3,680,924.
 Parks, Jack G., 3,663,896.
 Peachner, Teddy J., 3,706,498.
 Pearlstein, Fred; and D'Ambrosio, Margaret R., 3,687,740.
 Pellet, William, 3,705,965.
 Perkins, William E.; and Ciccone, Thomas Q., 3,634,153.
 Peterson, Ralph, 3,677,182.
 Petrie, Andrew, 3,706,938.
 Picard, Jean P.; Dunigan, Thomas E.; and Pell, Lawrence W., 3,667,387.
 Picard, Jean P.; and Voight, H. William, Jr., 3,694,278.
 Picard, Jean P.; Seals, William O.; and Pell, Lawrence W., 3,696,748.
 Pierce, Everette M., 3,689,331.
 Pleier, Otto, 3,633,941.
 Plump, Ralph E.; and Backiel, Robert M., 3,690,552.
 Porter, Frank K., Jr.; and Sonjara, Boris, 3,706,865.
 Potash, Norman, 3,635,217.
 Poziomek, Edward J.; and Hackey, Ethel B.; Hoy, Daniel J.; and Friedman, Harry George, Jr., 3,689,223.
 Priebe, Frank K., 3,686,592.
 Quinlan, Joseph B.; and Williams, Paul E., 3,645,206.
 Quinlan, Joseph B., 3,688,698.
 Quinlan, Joseph B.; and Van Artsdalen, Earl F., 3,698,319.
 Quinlan, Joseph B.; and Scanlon, John J., Jr., 3,705,549.
 Quintana, Ronald P.; Garson, Lorrian R.; and Lasslo, Andrew, 3,668,226.
 Rabinow, Jacob; Rotkin, Israel; and Astin, Allen V., 3,677,184.
 Radnich, Spencer I.; Davelman, Samuel; Symonds, Paul S.; and Taylor, Willis H., 3,665,857.
 Ragsdale, Charles W., 3,699,360.
 Rahman, Abdul R.; and Schafer, Glenn R., 3,705,814.
 Ramsley, Alvin O.; and Walwood, John T., 3,700,397.
 Rand, Henry T.; Bohacz, Maxine; Lyon, Jerry; Pitman, Robert L.; Shaw, Donald N.; and Bianchi, John, 3,706,867.
 Raue, Emil J., 3,706,375.
 Reed, Frederick P., 3,641,868.
 Reindl, Adolf, 3,646,445.
 Rentz, John C., 3,677,447.
 Rittenbach, Otto E., 3,634,860.
 Rittenbach, Otto E., 3,646,446.
 Rittenbach, Otto E., 3,670,331.
 Roach, Charles D., 3,700,517.
 Rohr, Alton J.; and McKeown, Cornelius J., 3,698,331.
 Rosenfeld, Myer; and Nichols, Troy R., 3,645,905.
 Rosenfeld, Myer; and Nichols, Troy R., 3,687,857.
 Satterfield, Homer E.; Stottmeyer, Keith D.; Brown, David L.; and Roberts, Leslie, 3,700,547.
 Sayles, David C., 3,636,154.
 Sayles, David C., 3,677,839.
 Sayles, David C., 3,686,310.
 Sayles, David C., 3,692,600.
 Sayles, David C., 3,694,277.
 Schlack, Allen F.; McNally, Thomas J.; and Doris, Thomas A., Jr., 3,633,512.
 Schmid, Frederick; and Viechnicki, Dennis J., 3,653,432.
 Schultz, Seiford F.; and Nix, Andrew B., 3,633,636.
 Schulz, Gerald L.; and Mansur, Raymond T., 3,673,041.
 Scollins, John A., 3,687,079.
 Scott, William Kenneth, 3,677,075.
 Shaffer, Roy E., 3,683,815.
 Shapiro, Arthur M., 3,692,589.
 Shaw, Donald N., 3,672,302.
 Shults, Gary W.; and Wierbicki, Eugen, 3,642,500.
 Silsby, Stanley D., 3,672,089.
 Silverthorne, Clarence B., 3,641,937.
 Slauta, John, 3,696,474.
 Smestad, Dale E.; and Quackenbush, Nelson E., 3,668,174.
 Smith, Chester L.; and Szabo, Louis R., 3,667,850.
 Smith, Donald E., 3,705,474.
 Sollott, Gilbert P.; and Peterson, William R., Jr., 3,673,015.
 Spiess, Irwin; and Gratkowski, Gabriel G., 3,688,636.
 Stewart, Walter N.; and Tatu, William J., 3,693,432.
 Stiefel, Ludwig, 3,682,726.
 Stiefel, Ludwig; Silverstein, Martin S.; and Kowalick, James F., 3,706,278.
 Stiglich, Jacob J., Jr., 3,633,520.
 Stirrat, William A.; Rollwitz, William L.; and Persyn, Gilbert A., 3,643,181.
 Stripling, William W., 3,645,475.
 Stripling, William W.; and Ross, Lester M., 3,653,737.
 Sulinski, Harry V., 3,656,983.
 Swartz, Elmer L., 3,690,338.
 Taylor, Francis R.; Leader, Patricia J.; and Westerdahl, Raymond P., 3,664,898.
 Thomenius, Kai E., 3,678,398.
 Thrailkill, Arthur E.; and Lewis, Herbert N., 3,656,433.

Toering, Robert J.; and Seamands, Robert E., 3,698,284.
 Travor, Bruce, 3,665,858.
 Travor, Bruce W.; and Pitney, Lennord L., 3,672,254.
 Trundle, Albert S., 3,700,338.
 Tuccinardi, Thomas E.; and Miller, Joseph W., Jr., 3,701,004.
 Umina, Anthony P.; and Westcott, Donald E., 3,632,355.
 Voigt, H. William, Jr.; and Banker, Bernard R., 3,705,828.
 Voigt, H. William, Jr.; Pell, Lawrence W.; and Picard, Jean P., 3,706,609.
 Walbeck, Calvin; Jacoby, John M.; Gepp, Carl E.; and Robertson, Louis A., 3,685,450.
 Waugh, John D., 3,646,264.
 Weissen, John; Carrazza, James A.; Hoerter, John; Kaye, Seymour M.; and Weingarten, Garry, 3,645,208.
 Weinstock, Manuel; Nimylowycz, Osyp; Wiggett, Edward J.; and Palmer, Obie, 3,653,616.
 Welford, Gordon D.; and Kelley, Buster E., 3,706,429.
 Wells, Warren W., 3,641,692.
 West, Allan L., 3,645,261.
 Wheeler, Harold A., 3,680,138.
 Wiese, Harold H., 3,680,242.
 Williams, Jimmy H., 3,662,649.
 Williams, Keith S., 3,705,529.
 Williams, Warren D.; Andrews, Loring B.; and Bader, Frank, 3,681,162.
 Witcher, Thomas Howard, 3,699,496.
 Witz, Samuel; Carleton, Lee T.; Anderson, Howard H.; Moyer, Rudolph H.; and Neufeld, Harold A., 3,690,837.
 Wohlford, William P., 3,645,165.
 Wong, Philip; and Messier, Donald R., 3,661,676.
 Wortman, Donald E.; and Mervis, Lawrence J., 3,690,323.
 Zimmerman, Theodore, 3,706,279.
 Zinn, Mortimer H., 3,678,321.
 Army, mesne: See—
 Allen, Edwin L.; and Willoughby, Donald A., 3,662,587.
 Barr, Irwin R.; Hayman, Jack H., Jr.; and Wilkening, Harold A., 3,680,240.
 Boutwell, Ernest D.; and Longfellow, Jack M., 3,706,031.
 Briggs, Bill N., 3,694,174.
 Cohn, Seymour B., 3,688,225.
 Criley, Ronald L.; Frost, Richard H.; and Shopalovich, Predrag, 3,642,235.
 Dalzell, Eugene W., Jr., 3,656,056.
 Dawson, Ralph E.; and Mahaffey, Donald M., 3,676,425.
 Dilworth, James B.; and Crow, Thomas G., 3,680,965.
 Feuersanger, Alfred E.; and Harris, Lawrence M., 3,677,847.
 Findlay, David; and Fowler, Arnold L., 3,672,255.
 Geier, George; and Mimmack, William E., 3,706,496.
 Goldin, Morris; and Price, Leonard W., 3,667,147.
 Gourse, Stanley J., 3,700,999.
 Hartlaub, Jerome T., 3,646,465.
 Hirschberg, Kenneth A., 3,699,509.
 Howson, James F.; and Friend, Chester A., Jr., 3,688,988.
 Hulteen, Stanley C., 3,663,337.
 Lane, John H., 3,690,170.
 Mansfield, Gerald R., 3,657,547.
 McDonald, Patrick H.; Blake, Henry W.; Myers, Guy A.; Pugh, Claud E.; and Todd, Edward S., 3,633,403.
 Nall, Thomas J., 3,706,001.
 Petree, Edwyn H., 3,667,103.
 Razdan, Raj K., 3,637,662.
 Rhoades, John W.; Register, James W., Jr.; and Millar, John D., 3,634,098.
 Rhoades, John W.; Register, James W., Jr.; and Millar, John D., 3,634,101.
 Rosenblum, Earl S., 3,672,781.
 Scruggs, James A., 3,664,811.
 Sinclair, Alex H.; Kozowyk, Ted; Reynolds, Ralph K.; Near-gardner, Robert F.; and Edson, Robert H., 3,642,332.
 Smith, Charles L.; and Reynolds, William S., Jr., 3,673,174.
 Stryker, Frederick J.; and Kornei, Otto, 3,663,243.
 Thies, Charles E.; Thompson, Bernard L.; and Anderson, Stanley E., 3,673,287.
 Toy, Madeline S.; and Cannon, William A., 3,645,702.
 Wilkinson, Bruce L., 3,634,840.
 Wright, Sam B.; and Rogers, Juius T., 3,637,658.
 Atomic Energy Commission: See—
 Aaland, Kristian, 3,656,128.
 Abbott, Augustus E., 3,706,511.
 Abegg, Moroni Taylor; and Leslie, William B., 3,659,527.
 Acree, Elick H.; Brashear, Hugh R., Jr.; and Case, Forrest N., 3,697,756.
 Acree, Elick H.; Case, Forrest Neil; and Stephens, Nancy H., 3,700,602.
 Adler, Laszlo; and Whaley, Hubert L., 3,662,589.
 Alvarez, Luis W.; Derenzo, Stephen E.; Muller, Richard A.; Smits, Robert G.; and Zaklad, Haim, 3,659,105.
 Ardary, Zane L.; and Sturgis, David H., 3,702,279.
 Armstrong, Dale F.; McInteer, Bertus B.; Mills, Robert I.; Poiter, Robert M.; Robinson, Eugene S.; Rowley, John C.; and Smith, Morton C., 3,693,731.
 Asbury, Joseph J.; and Googin, John M., 3,634,563.
 Avery, Robert T.; Lambertson, Glen R.; and Pike, Chester D., 3,702,450.
 Baisz, George J.; and Shonka, Francis R., 3,701,080.
 Baldauf, William A., Jr., 3,636,462.
 Barton, Donald R., 3,649,450.
 Baumann, Norman P.; and Ahlfeld, Charles E., 3,699,338.
 Baybarz, Russell D.; and Peterson, Joseph R., 3,640,888.
 Beatty, Ronald L.; and Kiplinger, Dale V., 3,664,859.
 Bell, William A., Jr.; Johnson, Ray L., Jr.; and Veach, Allen M., 3,649,827.
 Bell, William A., Jr.; and Veach, Allen M., 3,700,892.
 Bewley, Henry Dale, 3,666,451.
 Bewley, Henry Dale, 3,698,890.
 Boettcher, Gordon E., 3,663,855.
 Brak, Stephen B.; Steves, Clarence; and Mayfield, Ross M., 3,654,794.
 Brenner, Abner; and Anderson, Harvey J., 3,703,405.
 Buck, Keith E., 3,678,686.
 Bunker, James F.; Poland, James E.; Sayell, Emerson H.; and Schmidt, George V., 3,697,329.
 Burke, John C., 3,662,634.
 Burke, Thomas J.; Belle, Jack; and Clayton, John C., 3,657,137.
 Burkhardt, Winston, 3,666,426.
 Bush, Donald M., 3,677,822.
 Butler, Charles T.; and Sturm, Bernard J., 3,634,033.
 Cairns, Elton J.; Chilenskas, Albert A.; Steunenberg, Robert K.; and Shimotake, Hiroshi, 3,666,560.
 Canonico, Domenic A.; Cole, Nancy C.; and Houck, Clarence W., 3,673,038.
 Case, Forrest N.; Garrison, Arthur W.; Kau, Donald L.; and Smiley, David E., 3,640,808.
 Case, Forrest N.; and Smiley, David E., 3,650,926.
 Cason, John L., 3,659,106.
 Castrillon, Jose P. A., 3,671,455.
 Cathey, Le Conte, 3,677,825.
 Chin, Jack; Luby, Charles S.; and Mills, Richard G., 3,649,452.
 Christofilos, Nicholas C., 3,664,921.
 Christofilos, Nicholas C., 3,668,067.
 Chubb, Walston; Keller, Donald L.; Wullaert, Richard A.; and Storhok, Victor, 3,661,709.
 Clifford, Alan F.; Rhyne, Thomas C.; and Thompson, James W., 3,666,784.
 Coburn, Michael D., 3,678,061.
 Coengsen, Frederic H.; and Nexsen, William E., Jr., 3,677,889.
 Cohen, Jerry J.; and Lewis, Arthur E., 3,706,630.
 Cohn, Charles E., 3,706,941.
 Cole, James K.; Coonce, Carroll A.; and Post, Harold N., 3,670,648.
 Condas, George A.; and Brown, Don W., 3,676,677.
 Conner, William V., 3,666,443.
 Cooper, James A., 3,702,420.
 Coppinger, Eugene A.; and Johnson, Benjamin M., 3,697,436.
 Creek, Ronald B.; and Gardner, Karl A., 3,662,718.
 Cremer, George D., 3,636,674.
 Crisler, Larry R., 3,660,047.
 Crouthamel, Carl E.; Coleman, Lester F.; Bernstein, George J.; and Henault, Peter B., 3,663,363.
 Dahlberg, Richard C.; and Goeddel, Walter V., 3,652,744.
 Davidson, Keith Vernon; and Schell, Donald H., 3,666,845.
 De Freitas, C. Trench; and Handwerk, Joseph W., 3,668,285.
 Dietrich, Lee A.; Dikeman, John C.; and Johnson, Kenneth R., 3,669,631.
 Dixon, Norman E., 3,656,012.
 Dixon, Rod P., 3,640,336.
 Doesch, Robert G.; and O'Neill, William M., 3,699,044.
 Duffey, Dick; Wiggins, Peter F.; and Senftle, Frank E., 3,638,020.
 Duncan, Richard D.; and Salzano, George H., 3,640,115.
 Emon, Donald E.; and Riley, Donald R., 3,697,373.
 Erbert, Virgil, 3,702,589.
 Erickson, Gerald L., 3,702,936.
 Erickson, Gerald L., 3,702,961.
 Fergus, Richard W., 3,678,512.
 Finch, Lester M.; and Anthony, Andy J., 3,666,624.
 France, David M.; and Petrick, Michael, 3,633,665.
 Fuhrman, Nathan, 3,700,568.
 Furth, Harold P.; and Yoshikawa, Shoichi, 3,702,163.
 Futeh, Archer H., Jr.; and McFarland, Robert H., 3,657,542.
 Gaines, Jerry L.; Ebert, Paul J.; Mancebo, Lloyd; and Cook, Frederick D., 3,665,236.
 Germer, John H., 3,700,551.
 Giorgi, Angelo L.; and Szklarz, Eugene G., 3,694,274.
 Goeddel, Walter V., 3,650,896.
 Goldsworthy, William W., 3,688,305.
 Green, Donald R., 3,672,204.
 Gregg, David W.; Kidder, Ray E.; and Krawetz, Barton, 3,673,513.

Groot, Cornelius, 3,637,314.
 Haertling, Gene H., 3,666,666.
 Hague, Richard S., 3,643,441.
 Hahn, Richard L.; Stone, Roland L.; Tarrant, James R.; and Hunt, Lee D., 3,675,072.
 Hampel, Viktor E.; Lee, Joseph D., III; and Walter, Carl E., 3,700,554.
 Harbur, Delbert R.; Anderson, John W.; and Money, Richard K., 3,660,075.
 Hardy, Richard W.; Knowlen, Robert B.; Sandifer, Cecil W.; and Plake, William C., 3,670,164.
 Hartman, Charles W., 3,677,890.
 Heady, Orville E.; Towell, John F.; and Standifer, Richard L., 3,671,199.
 Heckman, Richard A.; and Cowles, John O., 3,703,208.
 Heckman, Richard A., 3,707,188.
 Hendel, Hans W.; Chu, Tsu-Kai; and Simonen, Thomas C., 3,668,066.
 Holcombe, Cressie E., Jr.; and Horne, Ottis J., Jr., 3,660,031.
 Holden, Robert B., 3,681,026.
 Hooker, James Ray, 3,644,604.
 Howell, Harold D.; Hunter, Thomas O.; and Stinebaugh, Robert E., 3,702,620.
 Hoy, John E., 3,699,337.
 Huddleston, Roy L., 3,638,160.
 Huebotter, Paul R.; and Bump, Thomas R., 3,677,893.
 Huebotter, Paul R., 3,702,803.
 Huffstetler, Richard O., 3,636,778.
 Irvine, Alvin R., 3,675,746.
 Jacky, Germaine F.; and Ehrlich, Richard D., 3,700,482.
 Jansen, George, Jr., 3,702,802.
 Jansen, James M., Jr., 3,656,116.
 Jensen, Reed J.; and Rice, Walter W., Jr., 3,662,280.
 Jobe, Lowell A., 3,633,597.
 Johnson, Ralph G.; and Fryberger, David, 3,673,327.
 Jones, Donald E.; and Petrock, Kermit F., 3,638,017.
 Kaminsky, Manfred S., 3,700,899.
 Kandiew, Anatoly I., 3,692,989.
 Kerns, Quentin A., 3,638,127.
 Kilian, Douglas C.; and Roeh, Arthur P., 3,633,888.
 Kippenhan, Dean O., 3,638,032.
 Kizer, Donald E.; Smith, Roy A.; and Speidel, Edward O., 3,662,042.
 Klingens, Theodore J.; and Wright, John R., 3,699,024.
 Knight, James T.; and Lee, Parley L., 3,640,805.
 Knight, Rodney W.; Martin, Melvin M.; and Martin, William R., 3,697,374.
 Knoll, Kenneth C., 3,666,673.
 Kolb, Jack W.; and Smith, Bob G., 3,635,793.
 Kotrappa, Payasada; and Light, Max E., 3,698,626.
 Krawetz, Barton, 3,641,454.
 Kuznietz, Moshe; Lander, Gerard H.; and Baskin, Yehuda, 3,646,813.
 La Point, James P., 3,638,200.
 Land, Cecil E.; and Smith, Willis D., 3,702,724.
 Landingham, Richard L.; and Kane, James S., 3,637,422.
 Landry, Murphy J., 3,699,474.
 Lang, Linton W., 3,658,644.
 Lien, Neil C., 3,650,893.
 Lonadier, Frank D.; and Kershner, Carl J., 3,677,958.
 Long, Jack L., 3,644,821.
 Longsdorff, Richard W.; and Sheetz, Robert Shirk, 3,702,408.
 Luton, James N., Jr., 3,702,453.
 Maeck, William J., 3,658,467.
 Mancebo, Lloyd, 3,660,712.
 Markley, Finley W., 3,661,267.
 Maschke, Alfred W., 3,667,058.
 McCoy, J. C.; and Steele, James W., 3,700,535.
 McCreary, William J.; and Court, Donald B., 3,636,923.
 McNeese, Leonard E.; and Ferguson, Don E., 3,672,846.
 Miller, William E.; Knighton, James B.; and Bernstein, George J., 3,663,178.
 Mills, Carroll B.; and Brasier, Robert I., 3,687,804.
 Moir, Ralph W., 3,668,065.
 Moore, Fletcher L., 3,687,641.
 Moses, Harry; Eggenberger, Delbert N.; Halverson, Steven L.; and Managan, William W., 3,702,565.
 Nelson, Paul A., 3,647,421.
 Nordyke, Milo D., 3,688,843.
 Novajovsky, William A.; and Hoelscher, Max W., 3,701,061.
 Ogle, Pearl R., Jr., 3,697,235.
 Orlandini, Kent A., 3,694,369.
 Osher, John E.; Kinney, John D.; and Steinhaus, James F., 3,678,323.
 Panesko, James V., 3,694,370.
 Parisi, Anthony, 3,650,804.
 Partridge, Jerry A.; and Jensen, Reilly C., 3,641,226.
 Pase, John D.; and Harrington, Francis E., 3,683,975.
 Pechin, William H.; Bradley, Ronnie A.; and Sease, John D., 3,689,428.
 Petit, George S.; and Wright, Ralph R., 3,668,084.
 Petit, George S.; and Kienberger, Charles A., 3,697,441.
 Petrick, Michael, 3,636,389.
 Phillips, James A.; Schofield, Aldred E.; and Briscoe, William L., 3,667,059.
 Piper, Thomas C., 3,665,752.
 Post, Richard F., 3,660,715.
 Post, Richard F., 3,663,360.
 Prewett, Hubert P., Jr.; and Thompson, Charles H., 3,672,246.
 Price, Vernon G.; and Grow, Richard W., 3,641,465.
 Primak, William L., 3,672,772.
 Randolph, Henry W., 3,649,829.
 Randolph, Henry W., 3,649,834.
 Ripley, Charles C., 3,640,845.
 Robertshaw, Fred C.; Bartos, Jon; Hurst, James J.; and McGurty, James August, 3,640,704.
 Rudnick, Stanley J.; Michaud, Paul L.; and Porges, Karl G., 3,646,330.
 Rupp, Arthur F.; Pinajian, John J.; and Rimshaw, Stanley J., 3,635,831.
 Salisbury, John D.; Gustavson, Marvin R.; and Foster, John S., 3,636,323.
 Salyer, Ival O.; and Jefferson, Robert T., 3,694,385.
 Sampson, William B.; and Britton, Richard B., 3,638,154.
 Sands, Arthur E., 3,635,676.
 Saraceno, Anthony J.; Walters, Reed H.; Jones, Donald B.; and Wiehle, William E., 3,664,950.
 Schmieder, Robert W., 3,693,012.
 Schmitt, Charles R.; and Schreyer, James M., 3,632,385.
 Schmitt, Charles R., 3,697,317.
 Schurman, Walter R., 3,639,978.
 Selle, James E.; and Kokenge, Bernard R., 3,659,107.
 Shair, Fredrick H.; and Ravimohan, Arakali L., 3,703,460.
 Shank, Richard C.; Zucker, Carl E.; Jones, David H.; Ribb, Harry F., Jr.; and Bayard, Robert T., 3,640,844.
 Siebelist, Hilbert R., 3,678,446.
 Skogmo, David G., 3,634,731.
 Smith, Carl M., Jr.; and Miller, William R., 3,646,309.
 Sobon, Leon E., 3,684,730.
 Spichal, William F., Jr., 3,666,953.
 St. Lorient, Steven J.; and Dow, Phillip L., 3,667,246.
 Stein, Lawrence, 3,660,300.
 Stix, Thomas H., 3,634,704.
 Stix, Thomas H., 3,663,362.
 Stober, Werner, 3,634,558.
 Sturm, Bernard J.; and Parkinson, William W., 3,663,504.
 Sump, Kenneth R.; Robinson, Ramon K.; Drumheller, Kirk; and Howard, Boyd D., 3,666,846.
 Swanson, John L., 3,652,233.
 Tanner, Allan B.; Senftle, Frank E.; and Moxham, Robert M., 3,702,932.
 Teel, Dale M.; and Putnam, John H., Jr., 3,657,920.
 Thomas, James B.; and George, Vincent J., 3,644,777.
 Tokarz, Richard D., 3,661,061.
 Tokarz, Richard D.; and Kaveckis, Joseph E., 3,699,200.
 Trent, Paul E.; and Miner, James E., 3,671,385.
 Tschamper, Pierre M., 3,677,891.
 Vissers, Donald R.; Holmes, John T.; Nelson, Paul A.; and Bartholme, Louis G., 3,683,272.
 Vollmer, Donald W., 3,656,063.
 Wagner, Paul; Dickinson, James M.; and Smith, Morton C., 3,644,221.
 Walsh, William J.; and Pierce, Robert Dean, 3,677,743.
 Wandling, Clarence R.; and Libby, Hugo L., 3,706,029.
 Watts, Geoffrey P., 3,641,444.
 Werner, Richard W.; Alexander, Everett E.; and Comstock, Irving J., 3,665,573.
 Werner, William J., 3,697,259.
 Whatley, Marvin E., 3,677,719.
 Wheelwright, Earl J., 3,695,834.
 Winsche, Warren E.; Wirsing, Edward, Jr.; and Wiswall, Richard H., Jr., 3,692,472.
 Wright, Ralph R.; Petit, George S.; and Wright, Calvin C., 3,666,529.
 Yoshikawa, Shoichi, 3,663,361.
 Zittel, Herman E.; Lupica, Sebastian B.; and Bate, Lamont C., 3,691,084.
 Atomic Energy Commission, mesne: See—
 Beaudoin, Benoit R.; Cohen, Joseph D.; Jones, David H.; Marier, Lester J., Jr.; and Raab, Harry F., Jr., 3,671,392.
 Cottam, Alfred E.; Chi, John W. H.; Kim, Chang-Kyo; and Flaherty, Robert, 3,638,023.
 Garber, Harold J., 3,632,520.
 Hershenson, Lawrence H., 3,657,801.
 Holden, Robert B.; and Fuhrman, Nathan, 3,649,473.
 Kolodney, Morris, 3,679,551.
 Kozlowski, Joseph Z., 3,648,472.
 Liu, Shing-Gong, 3,665,339.
 Nelson, Melvin A.; Lackey, Jerry G.; and Davies, Terence J., 3,675,022.
 Ohkawa, Tihoro, 3,692,626.

- Salyer, Ival O.; and Jefferson, Robert T., 3,647,721.
 Commerce: See—
 Commons, Charles H., Jr., 3,634,250.
 Greenough, Maurice Leighton; and Kuder, Milton L., 3,699,518.
 Commerce, Economic Development Administration, mesne: See—
 Walter, H Paul, 3,684,527.
 Commerce, mesne: See—
 Santirocco, Louis J.; Rose, Duane L.; and Scofield, John W., 3,672,664.
 Federal Aviation Administration: See—
 Dommasch, Daniel O., 3,636,324.
 Fickenwirth, Frederick I.; and Van Wyk, Jan W., 3,700,297.
 Federal Aviation Administration, mesne: See—
 Armstrong, George B., 3,650,286.
 Limage, Charles R.; Lindahl, Herbert P.; and Tjonneland, Eling, 3,643,676.
 Whitener, Philip C.; and Weigel, Robert M., 3,643,898.
 Health, Education and Welfare: See—
 Bahner, Carl T.; Brotherton, David H.; and Brotherton, Mary K., 3,637,677.
 Bowen, Rafael L., 3,635,889.
 Domen, Steve R., 3,665,762.
 Faw, Frederick L.; Johnson, Ralph E.; Warren, Constance A.; and Glenn, Dwight W., 3,678,233.
 Holsinger, William Perry, 3,699,389.
 Judson, George T.; and Freireich, Emil J., 3,655,123.
 Keilin, Bertram; and Walitt, Arthur L., 3,649,188.
 Kim, Young-Ho; Grubliuskas, Vytautas; and Friedman, Orrie M., 3,637,695.
 Krauth, Charles A.; Shealy, Yoder Fulmer; and O'Dell, Clinton Allen, 3,649,613.
 Kray, William C.; and Winkler, De Loss E., 3,663,659.
 Langham, Maurice Edward, 3,644,647.
 Lasky, Jack S.; and Fuest, Ronald W., 3,646,594.
 Law, John H., 3,674,818.
 Levy, Hilton B., 3,692,899.
 Lynn, John R.; and Tate, George W., Jr., 3,705,003.
 Maddox, Carl I., Jr., 3,651,864.
 Marantz, Laurence B.; and Greenbaum, Michael A., 3,669,878.
 Meyer, Harry M., Jr.; and Parkman, Paul D., 3,651,212.
 Norris, George F., 3,666,187.
 O'Neill, William P.; and Turner, Walter V., Jr., 3,642,953.
 Salyer, Ival O.; and Bardinelli, Albert J., 3,655,815.
 Terasaki, Paul I., 3,692,493.
 Health, Education and Welfare, mesne: See—
 Guarino, Henry R., 3,677,092.
 Tapp, James S.; Beemsterboer, George L.; and Salyer, Ival O., 3,698,560.
 Interior: See—
 Barnard, Paul G.; Starliper, Aaron G.; and Stephenson, James B., 3,676,107.
 Belter, John W.; Dockter, Leroy; and Ellman, Robert C., 3,668,145.
 Berg, Lloyd; and Jarrett, James H., 3,637,823.
 De Pree, David O.; and Weyland, Herman H., 3,663,163.
 Dryden, Julian R., 3,696,866.
 Dunseth, Maria G.; and Brinkman, Joel J., 3,634,231.
 Dyni, John R., 3,642,433.
 Eilts, Larry E., 3,699,391.
 Emerson, David E.; Weems, George W.; and Hoffman, Clarence A., 3,662,588.
 Emerson, David E., 3,691,818.
 Gnaedinger, Richard H., 3,663,719.
 Hauf, Adolf W., 3,656,048.
 Henrie, Thomas A., 3,650,931.
 Higley, Willard S., 3,700,591.
 Hillman, Juanita J.; and Horowitz, Raymond H., 3,671,516.
 Hunter, Jack A.; and Gilbert, Frederick W., 3,649,470.
 Johnson, Glenn E., 3,640,846.
 Kalousek, George L.; and Enger, Phillip F., 3,693,411.
 Kalousek, George L.; and Benton, Elton J., 3,698,924.
 Lacey, Robert E.; and Mintz, Milton S., 3,676,335.
 Lindstrom, Roald E.; and Bauer, Donald J., 3,634,070.
 MacMillan, Robert T.; and Jackson, Jesse, Jr., 3,700,766.
 Manjikian, Serop; and Foley, Michael I., 3,657,115.
 Marks, Murray, 3,666,297.
 Maughan, Ralph E.; and Ryan, Fred C., 3,635,092.
 McCawley, Frank X.; Wyche, Charles; and Schlain, David, 3,697,390.
 Murphy, John N.; and Bowser, Merle L., 3,638,035.
 Muter, Richard B.; and Lawrence, William F., 3,642,445.
 Neumeier, Leander A.; and Risbeck, John S., 3,649,377.
 Pasini, Joseph, III; Overbey, William K., Jr.; and Slagle, Franklin D., 3,636,751.
 Powell, Howard E.; and Smith, Lawrence L., 3,649,220.
 Richman, Russell B., 3,633,099.
 Riley, Robert L., 3,648,845.
 Sachs, Samuel B.; and Riley, Robert L., 3,676,203.
 Scheiner, Bernard J.; and Lindstrom, Roald E., 3,635,697.
 Scheiner, Bernard J.; Lindstrom, Roald E.; and Henrie, Thomas A., 3,639,222.
 Scheiner, Bernard J.; Lindstrom, Ronald E.; and Henrie, Thomas A., 3,639,925.
 Schleif, Ferber R., 3,639,810.
 Schoettger, Richard A.; and Steucke, Erwin W., 3,644,625.
 Schwaneke, Alfred E.; Falke, Wilbert L.; and Crosser, Orrin K., 3,675,310.
 Seitz, Charles A.; and Bodine, Winston M., 3,683,589.
 Smith, Nelson S., Jr.; and Fasching, George E., 3,679,973.
 Sprinkle, Leland W., 3,701,905.
 Staker, Walter L.; Dean, Karl C.; and Chindgren, Carl J., 3,660,022.
 Sweeny, Keith H.; and Fischer, James R., 3,640,821.
 VanWinkle, Roscoe, 3,634,199.
 Waters, Roy F.; Powell, Howard E.; and Ballard, Lee N., 3,653,875.
 Wires, Harold O.; Rickly, Samuel E.; Cox, Harold E.; and Preble, Duane M., 3,632,990.
 Wong, Morton M., 3,666,444.
 Woo, Jung Woo; Waters, Paul F.; Horowitz, Raymond H.; and Hadermann, Albert F., 3,662,046.
 Zawadzki, Raymond J., 3,699,849.
 Interior, mesne: See—
 Farrell, Robert P., Jr., 3,701,486.
 Gardner, Tommy R.; and Knox, John A., 3,635,034.
 Greyson, Jerome; and Rogers, Howard H., 3,664,940.
 Manjikian, Serop, 3,698,559.
 Pechenick, William; and Gelblum, Gideon P., 3,632,309.
 Riley, Robert L.; and Lyons, Clifford R., 3,661,634.
 Schaeffler, Otto S., 3,669,954.
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 Rubin, Bernard; and Childress, James D., 3,679,360.
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 Aldrich, Billy R.; Cooper, Charles R.; and Rasquin, John R., 3,636,966.
 Angele Wilhelm; and Martineck, Hans G., 3,670,290.
 Arias, Alan, 3,649,242.
 Auer, Siegfried O., 3,694,655.
 Baer, David A., 3,663,938.
 Beam, Benjamin H.; and Russell, Larry D., 3,657,644.
 Belew, Robert R., 3,675,376.
 Birchenough, Arthur G., 3,638,103.
 Blackstock, Thomas A., 3,698,659.
 Blue, James W.; Smith, Wayne R.; and Sodd, Vincent J., 3,694,313.
 Blume, Hans-Juergen C., 3,663,886.
 Bower, Kenneth F., 3,648,275.
 Bradley, Raymond H., 3,700,193.
 Burrous, Clifford N.; and Deboo, Gordon J., 3,705,316.
 Campbell, Richard A., 3,702,575.
 Campbell, Thomas G.; and Appleton, Meredith W., 3,653,052.
 Cantor, Clarence; and Lowen, Irving B., 3,637,312.
 Caron, Paul R., 3,648,043.
 Chappelle, Emmett W.; and Picciolo, Grace L., 3,660,240.
 Cocca, Frank J., 3,665,307.
 Conger, Channing C., 3,648,209.
 Dammig, Alvin H., Jr.; Sherburne, Arthur E.; and Brooks, Rodney A., 3,639,835.
 Davis, Edwin J.; and Tolson, Bill A., 3,666,051.
 Dawn, Frederick S.; and Gill, William L., 3,665,750.
 Dimeff, John, 3,679,899.
 Epstein, Joseph, 3,664,874.
 Espy, Patrick N., 3,693,002.
 Evans, Jack, 3,632,081.
 Faget, Maxime A., 3,702,688.
 Farrell, Richard, 3,665,589.
 Fields, Stanley A.; and Reynolds, John M., 3,702,933.
 Finley, Tom D., 3,638,114.
 Freche, John C.; Waters, William J.; and Ashbrook, Richard L., 3,702,791.
 Furumoto, Horace W.; and Ceccon, Harry L., 3,659,225.
 Gaddy, Edward M., 3,636,539.
 Garfein, Andre; Rindner, Wilhelm; and Rubin, David C., 3,667,039.
 Gray, Vernon H., 3,656,317.
 Greenberg, Jacob, 3,635,765.
 Gregory, John W., 3,702,536.
 Hadland, Wayne O., 3,700,291.
 Hall, John B., Jr.; Tung, Yi; and Winn, Lavern E., 3,670,890.
 Hanson, Perry W., 3,695,101.
 Haroules, George G.; Brown, Wilfred E., III; Ewen, Harold I.; Lilley, Arthur E.; and Kodis, Ralph D., 3,665,467.
 Hatakeyama, Lawrence F., 3,706,281.
 Howard, Frank S., 3,697,021.

- Howell, William E.; and Ostroff, Aaron J., 3,647,276.
 Huber, William C., 3,665,669.
 Huber, William C.; and Ritter, Dale L., 3,702,520.
 Huff, Ronald G., 3,699,645.
 Iles, Peter Albert, 3,653,970.
 Jessup, Artie D., 3,649,462.
 Jones, James L., 3,670,097.
 Judd, Joseph H.; and Clark, Raymond L., 3,690,291.
 Kabana, Walter P.; and King, Charles B., 3,705,288.
 Kaspereck, Walter E.; Swords, Ben B.; and Rosinski, Werner K., 3,693,418.
 Kennedy, Bobby W., 3,700,538.
 Kerley, James J., Jr.; and Schaller, Norman C., 3,699,807.
 Kleinberg, Leonard L., 3,633,048.
 Kleinberg, Leonard L., 3,693,105.
 Kosmahl, Henry G., 3,702,951.
 Lee, Robert D., 3,676,772.
 Leibecki, Harold F., 3,666,741.
 Lesniewski, Robert J., 3,702,463.
 Litchford, George B., 3,696,418.
 Ludwig, Lawrence P.; and Strom, Thomas N., 3,675,935.
 Maiden, Donald L.; Monteith, James H.; and Carpi, Thomas D., 3,699,811.
 Maserjian, Joseph; and Gatewood, John R., 3,676,754.
 Melamed, Louis, 3,657,928.
 Miertschin, Jerrold L.; and Butler, David H., 3,663,929.
 Miller, Howard B.; and Sieet, George E., 3,675,332.
 Miller, Joseph A., Jr., 3,634,383.
 Mosier, Benjamin; and Day, Joe L., 3,665,064.
 Mullen, Lewis O.; and Sullivan, Donald B., 3,649,356.
 O'Keefe, William J., 3,706,970.
 Pasciutti, Edward R., 3,663,941.
 Patterson, William J., 3,660,434.
 Patterson, William J.; and Morris, Donald E., 3,666,718.
 Peters, Robert L.; and Koch, Kenneth F., 3,678,191.
 Petrask, Donald W.; Signorelli, Robert A.; Weeton, John W.; and Beremand, Gerald B., 3,653,882.
 Philipp, Warren H.; Marsik, Stanley J.; and May, Charles E., 3,658,569.
 Phlieger, Graydon A., Jr., 3,639,809.
 Pleasants, James E.; and Dereng, Viggo G., 3,700,192.
 Potter, Andrew E., Jr., 3,702,735.
 Rasquin, John R.; and Estes, Marvin F., 3,632,242.
 Rasquin, John R., 3,647,924.
 Rich, Edward; and McLeod, Norman H., 3,666,631.
 Rindner, Wilhelm; and Roth, Harold, 3,667,010.
 Rindner, Wilhelm; Iannini, Americo; and Garfein, Andre, 3,686,542.
 Sacks, Barry H., 3,694,771.
 Sawko, Paul M., 3,663,464.
 Sawko, Paul M., 3,702,841.
 Schoen, Alan H., 3,663,346.
 Schoen, Alan H., 3,663,347.
 Schutt, John B.; Colony, Joe A.; and Lepp, Donald R., 3,639,250.
 Schwarz, Francis C., 3,659,184.
 Schwarz, Francisce, 3,663,940.
 Seidenberg, Benjamin; and Hobbs, Alfred J., 3,700,893.
 Sivertson, Wilford E., Jr., 3,700,868.
 Smith, David L., 3,663,843.
 Smith, Wade O.; and Toft, Albert R., 3,702,808.
 Smyly, Harold M., 3,698,412.
 Springett, James C., 3,700,812.
 Stewart, Carrington H., 3,663,885.
 Stuart, John W., 3,702,775.
 Studenick, David K.; Tyler, Allen L.; and Squillari, Walter, 3,698,667.
 Studer, Philip A., 3,694,041.
 Sullivan, Thomas E.; and Frenkel, Lothar, 3,633,110.
 Thomas, David F., Jr., 3,649,921.
 Tiller, Newton G., 3,665,758.
 Toole, Pierce C., 3,638,002.
 Toole, Pierce C., 3,697,733.
 Trent, Robert L., 3,665,313.
 Ulrich, Donald R., 3,649,353.
 Van Atta, Lester C.; and Mailloux, Robert J., 3,680,142.
 Vaughan, Otha H.; and Malone, Lee B., 3,667,044.
 Vykukal, Hubert C., 3,636,564.
 Webb, Darrow L., 3,702,898.
 Welch, Wilson A.; and Medcalf, William A., 3,650,095.
 Wells, Frederic E., 3,631,737.
 Whipple, Douglas W.; and Blymiller, Earl R., 3,668,956.
 Whitacre, Horace E.; and White, Arthur R., 3,662,661.
 Williams, Jerry G.; and Judd, Joseph H., 3,671,105.
 Wilson, Maywood L., 3,701,631.
 Yoshino, Stanley Y., 3,697,630.
 Youngbluth, Otto, Jr., 3,649,907.
 Zaviantseff, Vladimir T., 3,676,674.
 Zeman, John R., 3,659,148.
 Zummler, Donald R., 3,665,670.
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 Demogenes, Christos; and Richard, Connie E. Low-cycle fatigue testing machine. 3,665,751, 5-30-72, Cl. 73-15.600.
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 Dobies, Edwin F. Cyclically operable optical shutter. 3,704,659, 12-5-72, Cl. 95-59.000.
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 Haury, Vernon E. Hydrazinium nitroformate propellant stabilized with nitroguanidine. 3,658,608, 4-25-72, Cl. 149-19.
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 Oliver, Robert E. Multiple reflection conical microwave antenna. 3,705,406, 12-5-72, Cl. 343-782.000.
 Oliver, Robert L.; and Zimmerman, Edward F. Apparatus for applying cover slides. 3,654,036, 4-4-72, Cl. 156-510.
 Perkins, Gerald S. Ball-screw linear actuator. 3,660,704, 5-2-72, Cl. 310-80.
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 Zygielbaum, Arthur I.; Martin, Warren L.; and Engel, Alexander. Digital video display system using cathode-ray tube. 3,648,250, 3-7-72, Cl. 340-172.5.
 Zygielbaum, Arthur I.; Layland, James W.; and Martin, Warren L. Communications link for computers. 3,648,256, 3-7-72, Cl. 340-172.5.
 National Aeronautics and Space Administration, mesne: See—
 Bailey, Richard L.; Dowler, Warren L.; and Shafer, John I., 3,648,461.
 Marroni, Michael A., Jr., 3,660,851.
 Navy: See—
 Abbott, Frank R., 3,659,258.
 Abbott, Frank R., 3,700,939.
 Acker, Morris; Ikrath, Kurt; and Schneider, Wilhelm A., 3,646,562.
 Adair, Robert S., 3,675,549.
 Adolph, Horst G.; and Kamlet, Mortimer J., 3,644,519.
 Albatys, Zigmund M., 3,698,282.
 Allen, Philip J., 3,703,330.
 Allen, Willard B.; Persons, Charles E.; and Brandon, Marshall K., 3,696,414.
 Alpers, Frederick C., 3,651,325.
 Alpers, Frederick C., 3,651,326.
 Alpers, Frederick C., 3,699,380.
 Altman, Daniel E., 3,669,548.
 Anderson, Matthew E.; and Davis, Edward J., 3,631,804.
 Anderson, Vernon A., 3,636,380.
 Anderson, Wallace E.; Krall, Albert D.; and Syeles, Albert M., 3,697,831.
 Arbesman, Paul H.; James, Stanley D.; and Warburton, Donald L., 3,698,960.
 Asbelle, Charles C.; Arrigo, Michael F.; Hunting, Kenneth E.; and Helmuth, Gene R., 3,673,613.
 Augl, Joseph M., 3,642,700.
 Augl, Joseph M.; and Duffy, James V., 3,654,226.
 Augl, Joseph M.; Bailey, William J.; and Erickson, Porter W., 3,677,787.
 Axelson, Carl A.; Hinves, John R.; and McGann, Elton Y., 3,672,300.
 Ayres, Dwight T.; and Sibul, Leon H., 3,662,187.
 Ayres, William M.; and Henry, Ronald A., 3,677,841.
 Bailey, Robert A.; and Michelsen, Arve, 3,675,575.
 Bailey, Roddie F., 3,654,888.
 Barstow, Glidden J., 3,667,051.
 Bauer, Benjamin B., 3,665,381.
 Beaucher, George J., 3,693,921.
 Beck, Cyrus, 3,641,268.
 Beck, Earl J., Jr., 3,646,694.
 Beck, Earl J., Jr., 3,704,966.
 Beck, Emanuel A.; and Bassnett, Arthur J., 3,706,928.
 Belson, Henry S.; De Savage, Bernard F.; and Tebble, Robert S., 3,699,553.
 Bergey, John M. K.; and Kalatucka, Stephen, 3,680,046.
 Bernaerts, Henry J., 3,703,211.
 Bernardin, Rodney A., 3,633,510.

Beyer, Henry R.; Long, Thomas F.; and De Sipio, Richard G., 3,703,719.
 Bickel, John E.; Freres, Clemens H.; Gossard, Earl E.; Britt, James E.; Ortwein, Norman R.; and Swanson, Eric R., 3,680,115.
 Biggs, Lawrence M., Jr., 3,633,846.
 Bishop, Stephen G.; Moore, William J.; and Swiggard, Edward M., 3,638,138.
 Bishop, Walton B., 3,646,556.
 Bishop, Walton B., 3,680,090.
 Bladh, James C., 3,680,161.
 Blair, James E., 3,658,004.
 Bouclin, Peter, 3,698,241.
 Brawn, John M., 3,672,303.
 Briggs, Robert F., 3,659,892.
 Britt, A. D.; and Moniz, William B., 3,664,985.
 Brown, Bruce J., 3,676,793.
 Brown, Carl W.; Reppert, Allen B.; and Dobbins, Billy D., 3,677,500.
 Brown, Claude W., 3,680,093.
 Brown, Ray B.; Fluhr, Frederick R.; and Hall, George L., 3,698,797.
 Brown, Robert E., 3,649,908.
 Bryant, John F.; and Hyde, Will T., Jr., 3,656,838.
 Bryant, Kenneth O., 3,662,386.
 Bryant, Kenneth Owen; Morrow, William R.; and Logue, Vernon J., 3,680,088.
 Bryant, Marion B.; and Hunt, Barry R., 3,680,123.
 Bryant, William W.; and Groff, Richard T., 3,670,622.
 Buehler, William J., 3,679,394.
 Burdette, George William, 3,634,154.
 Burdette, George William; and Couch, Dean Henry, 3,650,857.
 Burkhardt, Lawrence E.; and Johnson, Charles H., 3,703,145.
 Burt, Warren T.; and Hoffman, Herman J., 3,668,308.
 Buth, Roy C.; and Schroeder, Arthur F., 3,673,047.
 Camp, Albert T.; Dickinson, Lionel A.; and Mosher, Paul R., 3,634,158.
 Carpenter, David W.; and Rodgers, Charley R., 3,700,762.
 Cavey, Richard R., 3,656,095.
 Chadwick, William R., 3,695,555.
 Chakoian, George; and Crowell, Russell T., 3,695,177.
 Chatham, James R.; and Licata, William H., 3,640,178.
 Christoph, Walter P.; McQuitty, Jim B.; and Vendetti, Lewis A., 3,646,814.
 Cioccio, Armand; and Goo, Gee-In, 3,699,889.
 Cizek, Albert W., Jr.; Lerner, Irving; and Simeon, Raymond, 3,652,485.
 Clark, Ronald L., 3,644,837.
 Clawson, Arthur R.; Davis, Neil M.; Wieder, Harry H.; and Collins, David A., 3,671,102.
 Clegg, Robert J., 3,700,336.
 Clinkenbeard, James D., 3,667,417.
 Cole, Roy D., 3,699,310.
 Collings, Rupert H., 3,680,136.
 Conn, James B.; Delbaue, J. Richard; and Lilienkamp, Hugh, 3,697,886.
 Cool, Terrill A., 3,671,882.
 Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., 3,700,723.
 Corzine, Robert G.; and Mosko, Joseph A., 3,683,385.
 Cowan, John G., 3,701,089.
 Cox, Charles D.; and Liggett, Thomas, 3,671,515.
 Crecelius, John D., 3,698,185.
 Crescenzo, Frank G.; and Dow, Robert L., 3,639,183.
 Crippa, Eugene R.; and Lowry, Ray B., 3,697,969.
 Croson, Eddie B., 3,700,445.
 Culver, Paul L., 3,662,319.
 Davey, John E., 3,663,308.
 Davey, John E.; and Pankey, Titus, Jr., 3,690,915.
 Davis, Charles R., 3,667,033.
 Davis, Edward J., 3,631,803.
 Davis, Edward J., 3,646,889.
 Davis, John S., 3,680,749.
 De Core, Fred; Peake, Thaddeus A.; and Marshall, Ted R., 3,668,768.
 De Simone, David N., 3,673,609.
 De Sipio, Richard G.; and Finnegan, Patrick J., 3,636,329.
 De Vost, Valmore F.; and Simkins, John W., 3,706,229.
 Delagrange, Arthur D., 3,652,871.
 Delman, Alvin D.; Kovacs, Hanna N.; and Simms, Bernard B., 3,637,607.
 Derderian, George; and De Clerk, Joseph L., 3,675,012.
 Derderian, George; and Breglia, Denis R., 3,681,608.
 Devereux, Robert F.; and Casco, Ernest L., 3,670,572.
 Di Crispino, Joseph S.; and Kaldor, Leslie M., 3,673,862.
 Dickson, Robert L.; Johnson, George B.; and Hansen, Kirby W., Jr., 3,706,854.
 Diebold, James P.; and Eldridge, Judson B., 3,702,354.
 Dierolf, Arthur Jack, 3,671,341.
 Ditter, Jerome F.; Klusmann, Eugene B.; and Williams, Robert E., 3,660,494.
 Donahue, William J.; Blanchard, David L.; and Wack, John M., 3,670,656.
 Doyle, Timothy J., 3,657,580.
 Dray, James F., 3,700,293.
 Drelicharz, Joseph A., 3,704,673.
 Drew, Gene R., 3,646,847.
 Driskell, Carl R., 3,671,391.
 Driskell, Carl R., 3,698,102.
 Drisko, Richard W.; and Kiefer, Earl J., 3,635,813.
 Duffy, James V.; and Erickson, Porter W., 3,706,691.
 Duncan, William E., 3,706,235.
 Easton, Roger L., 3,668,527.
 Eaton, Alvin R., Jr., 3,636,877.
 Edwards, Robert E.; and Osepchuk, John M., 3,636,403.
 Edwards, William R., 3,670,574.
 Egbert, Harry F.; and Falls, James R., Jr., 3,662,287.
 Eisenman, Wesley L.; Arrington, Douglas C.; Bates, Richard L.; Merriam, James D.; and Stierwalt, Donald L., 3,660,659.
 Elkins, James H., 3,665,509.
 Ellard, James S., Jr., 3,663,989.
 Elliott, Henry H., 3,648,173.
 Erickson, Allen M., 3,660,777.
 Erickson, Allen M.; and Kessler, Bernard V., 3,697,182.
 Esposito, John J., 3,670,518.
 Esposito, John J., 3,670,716.
 Evers, Theodore H.; and Pritchard, Eric K., 3,652,900.
 Ewing, Channing L., 3,698,670.
 Farneth, William N., 3,636,554.
 Farrar, Reed A., 3,633,988.
 Filippi, Ernest A.; Watson, Jack B.; and Hughes, Larry E., 3,695,246.
 Fineran, Dennis E.; and Fendley, Samuel J., 3,701,144.
 Fischer, Edward G.; and Molnar, Albert J., 3,645,469.
 Fishel, Kenneth R., 3,695,671.
 Fitz Simmons, Vincent G., 3,637,497.
 Fleming, Gerald J., 3,634,036.
 Fleming, Gerald J., 3,644,222.
 Fluhr, Frederick R., 3,671,966.
 Folden, Virgil A., Jr.; and Miller, Johny, Jr., 3,669,311.
 Foley, Nelson D., 3,701,025.
 Friedman, Moshe; and Ury, Michael G., 3,700,945.
 Gagliardi, Richard P.; Beans, Allen F.; Eddowes, Alfred M.; and Greenblatt, Herbert, 3,701,153.
 Galloway, Dwight V.; King, Gordon E.; Asbelle, Charles C.; and Arrigo, Michael F., 3,703,894.
 Gardner, Robert E., 3,699,435.
 Garrett, William D.; and Barger, William R., Jr., 3,676,359.
 Gathman, Stuart G., 3,644,828.
 Gauzza, Harry J.; and Horanoff, Eugene V., 3,695,556.
 Geffe, Philip R.; and Tabisz, Sylvester C., 3,689,848.
 Geller, Myer; Altman, Daniel E.; De Temple, Thomas A.; and Taylor, Henry F., 3,654,626.
 Gerber, Robert L., 3,633,596.
 Gey, William A.; and Wiebke, Armin T., 3,636,874.
 Gilbertson, Warren L.; Shelton, Everett T., Jr.; and Southall, Robert M., 3,703,865.
 Gill, Henry L., 3,667,553.
 Gilligan, William H.; and McQuiston, William E., 3,699,168.
 Goan, John C., 3,634,220.
 Goldsmith, Alexander, 3,644,073.
 Goodbody, Richard L., 3,671,971.
 Grantham, Rodney E.; Malloy, John H.; and Warnock, Frederick E., 3,667,392.
 Gray, Lawrence S., 3,700,876.
 Greenberg, Myron M.; and Macintyre, Steven A., 3,697,869.
 Greene, Michael L., 3,666,028.
 Griffin, Jon H., 3,633,174.
 Griffin, William C., 3,667,847.
 Grillo, Salvatore J.; and Townsend, Cary L., 3,633,092.
 Grunther, Robert G.; Chatten, Clarence K.; and Lebovits, Alexander, 3,644,247.
 Gustafson, Paul R., 3,632,519.
 Gustafson, Walter R.; McMillen, William H.; and Lippel, Lewis, Jr., 3,680,087.
 Gustafson, Walter R.; McMillen, William H.; and Kemper, Jackson, Jr.; and Newman, Leonard, 3,688,312.
 Haiss, Hermann S.; and Lowe, James U., Jr., 3,700,636.
 Hallanger, Lawrence W., 3,680,216.
 Hamontre, Hugh C.; and Kessler, Hugh M. D., 3,631,835.
 Hanks, Dorothy B.; and Moran, Stephen F., 3,706,293.
 Hanrahan, Donald J., 3,676,716.
 Hansen, Neil W.; and Orenstein, Nathan, 3,675,132.
 Hardesty, George K. C.; Dickey, Joseph W.; and Waltman, Donald J., Jr., 3,634,694.
 Harris, William G., Jr., 3,701,331.
 Haynes, Harvey H., 3,699,689.
 Hecker, Klaus J., 3,663,807.
 Heckman, Paul J., Jr., 3,674,925.

Helms, Horace H., Jr.; and Rozner, Alexander G., 3,695,951.
Henderson, Larry D.; and Johnson, Craig E., 3,702,271.
Henderson, Larry D.; and Wilson, Robert C., 3,702,353.
Herndon, John W., 3,641,260.
Herndon, John W., 3,662,102.
Herndon, John W., 3,692,934.
Hill, Everett B., 3,638,228.
Hilliard, Edward J., Jr., 3,660,766.
Hinton, Ray F., 3,669,912.
Ho, Louis T.; and Flaherty, Robert J., III, 3,658,147.
Hoer, Cletus A., 3,701,057.
Hoffman, Eric J., 3,657,555.
Hopkins, Wayne J.; and Watson, James K., 3,635,404.
Howard, Harold K., 3,701,152.
Huang, Kwang-Ta, 3,697,856.
Huber, Ralph W.; Pellini, William S.; and Goode, Robert J., 3,645,803.
Hughes, Richard Smith, 3,638,045.
Hughes, Richard Smith, 3,706,932.
Hymowitz, Emil W., 3,698,338.
Ireland, Ralph H.; and Lessoravage, Edward C., 3,646,355.
Irons, Henry R.; and Schweet Leonard J., 3,660,828.
Irons, Henry R.; and Schweet, Leonard J., 3,693,072.
Jacobs, Richard M.; Alexander, Dave W.; and Gronroos, Charles M., 3,661,107.
Jefferson, Donald E.; and Vermillion, Ronald G., 3,678,468.
Johnson, Charles H., 3,668,557.
Johnson, Donald W.; Stovall, Ronald J.; and Wheelock, Larry A., 3,668,684.
Johnson, Duane M.; and Razelton, Donald R., 3,698,968.
Johnson, Frithiof V., 3,697,154.
Johnson, Guy L., 3,706,263.
Johnson, Robert P., 3,657,659.
Johnson, Roy D., 3,644,836.
Jones, Louis F., 3,643,616.
Jones, John L., 3,677,278.
Kamalian, Neubar, 3,691,953.
Kammer, Erwin W., 3,643,494.
Kamph, Frederick W., 3,631,829.
Kaplan, Lloyd A.; and Oesterling, Robert E., 3,705,197.
Katcher, Emanuel Edward, 3,706,258.
Kaufman, Martin H.; O'Drobinak, John D.; and Dake, James O., Jr., 3,640,070.
Kaufman, Martin H., 3,671,609.
Kautz, William H., 3,699,534.
Keister, Frank Z.; and Smolker, Gary S., 3,666,967.
Kellenbenz, Carl W., 3,668,483.
Kietzer, James E.; and Mente, Joseph N., 3,699,462.
Kilmer, Earl E., 3,678,853.
Kirby, Woodrow P., 3,646,505.
Kissinger, Lewis E., 3,696,747.
Kizilos, Apostolos P., 3,670,994.
Klund, William E., 3,636,333.
Krafft, Joseph M., 3,680,367.
Kronman, Seymour; Spencer, Dana E.; and Henderson, Larry D., 3,695,141.
Krzycki, Leroy J., 3,668,868.
Kuck, John H., 3,699,397.
Kuck, John H., 3,706,993.
Kuyper, William, 3,670,623.
LaBaw, Kenneth B., 3,678,283.
Lagally, Paul, 3,697,425.
Lagally, Paul, 3,697,476.
Lee, Benjamin Y. S.; and Gonzales, John, 3,661,525.
Leinkram, Charles Z., 3,660,632.
Leinkram, Charles Z., 3,680,196.
Leland, James M., 3,706,651.
Lemaire, Irov P., 3,668,986.
Lemieux, Thomas H., 3,703,874.
Lent, William E.; and Gates, Louis E., Jr., 3,632,961.
Levasseur, Joseph Emile, 3,631,850.
Levine, Donald, 3,654,190.
Lichfield, Ernest W., 3,701,283.
Lichtman, Joseph Z., 3,706,621.
Lieberman, Morris S., 3,643,329.
Lindsay, George F.; Sullivan, Shelby F.; and Whitehouse, Harper John, 3,670,151.
Lindsay, George F.; and Whitehouse, Harper John, 3,675,052.
Loessi, Jack C., 3,694,760.
Lohkamp, Carl W.; and Short, James E., Jr., 3,635,162.
Long, Ernest T., 3,700,446.
Lopes, Louis A., Jr., 3,699,316.
MacKenzie, Gerald L.; and Mosher, Paul R., 3,674,702.
Mackie, William L., 3,668,287.
Mackie, William L., 3,697,422.
Mackin, Arthur S., 3,671,096.
MacPherson, Alan C., 3,636,465.
Magis, Sigfred F., 3,676,907.
Mahmoud, Aly A., 3,638,040.
Mahmoud, Aly A., 3,660,787.
Mandel, Louis, 3,641,428.
Mangleburg, Charles S., 3,664,176.
Marez, John; and Hatch, Alan R., 3,670,102.
Marshall, Albert H.; and Siragusa, George A., 3,657,826.
Marzolf, Joseph M., 3,652,918.
Masek, Roland C., 3,671,801.
Massey, Gail A., 3,654,482.
Mast, Phillip W.; and Beaubien, Laurent A., 3,703,012.
McCamis, Marvin J.; and Gibson, George W., 3,680,036.
McCurnin, Thomas W.; and Perper, Lloyd J., 3,643,166.
McKechnie, John C., 3,666,895.
McKechnie, John C., 3,699,248.
McKechnie, John C., 3,699,251.
McKinney, Edward J., 3,701,154.
McQuiston, William E.; and Tesi, Giorgio, 3,701,573.
Means, Robert W.; and Whitehouse, Harper John, 3,633,118.
Memery, James P., 3,700,354.
Menichelli, Vincent J., 3,638,572.
Meraz, Daniel, Jr.; and Simshauser, Anthony J., 3,699,893.
Miller, Donald, 3,631,551.
Miller, Samuel A., 3,634,751.
Min, Sherman L., 3,675,579.
Mobley, Frederick F., 3,698,660.
Mohon, Windell N.; and Rodemann, Alfred H., 3,700,302.
Monaghan, Stephen R.; and Birch, James D., 3,656,070.
Moran, Stephen F., 3,631,760.
Morin, Richard A.; and Lanphier, Edward H., 3,698,591.
Morley, Carl H.; and Sumrall, Howell M., 3,633,507.
Morris, Ross E., 3,696,066.
Morris, Ross E., 3,696,773.
Morton, Scott D., 3,662,096.
Mott, Murray H.; Wehner, Donald R.; and Roome, Albert T., 3,662,388.
Mueller, Kurt F., 3,700,393.
Munach, Arnold S., 3,677,186.
Murphree, Francis J.; and Marrero, Michael T., 3,641,485.
Murphree, Francis J., 3,642,999.
Murphree, Francis J., 3,671,657.
Murphree, Francis J.; and Catano, Paul S., 3,676,802.
Nacht, George G., 3,701,143.
Nahas, Joseph A., 3,643,545.
Nathanson, Fred E.; and White, David M., 3,702,476.
Nation, John A., 3,700,952.
Naubereit, Henry; and Picard, Salvatore A., 3,688,202.
Nauffett, George W.; and Farncomb, Robert E., 3,652,686.
Nelson, George P., 3,667,054.
Neuhäus, Herbert M., 3,674,407.
Newell, Douglas F., 3,667,300.
Newton, Victor S., 3,676,792.
Niemann, George W.; and Shannon, Charles N., 3,676,780.
Noble, Herman; and Hartel, Edward H., 3,694,029.
Noel, Earl A., 3,648,611.
Noles, Ronald C., 3,661,084.
Nooker, Eugene L.; Thompson, Luther G.; Varney, Glenn E.; and Dietz, Victor J., 3,690,257.
Nordseth, Marvin P.; and Hueber, Werner G., 3,662,104.
Nordstrom, Wallace C.; and Welles, Albert W., 3,706,963.
Norris, William P., 3,694,495.
Nunn, Robert H., 3,691,770.
Nyswander, Reuben E., 3,701,059.
O'Brien, John A., 3,690,463.
O'Daniel, Stephen A.; Mott, Murray H.; and Jones, Robert W., 3,655,997.
O'Daniel, Stephen A., 3,697,994.
O'Drobinak, John D.; and Kaufman, Martin H., 3,640,785.
Odum, William T.; Elkins, James H.; and Coggings, Thomas M., 3,702,597.
Ohlbaum, Robert A.; Zanis, Charles A.; and Crisci, Joseph R., 3,653,940.
Olson, Franklyn C. W., 3,695,103.
Olson, Jack R., 3,693,440.
Ort, Eldon L.; Smith, John K.; and Kacergis, John A., 3,649,909.
Page, Robert M., 3,681,746.
Palmer, Donald M.; Cotton, Charles C.; and Hodges, Willmer F., 3,696,599.
Paraskewik, William, 3,670,620.
Parker, Robert W.; and McGary, Jacob H., 3,656,210.
Passamante, Anthony P., 3,671,796.
Patton, Terence R.; and Ringel, Melvin B., 3,701,149.
Peep, Mart; and Flower, Ronald J., 3,656,342.
Peterson, Reeve D., 3,678,388.
Petrick, John T.; and Gray, Reginald I., 3,640,224.
Petropoulos, Spyros K.; Jehle, Robert E.; and Halberstam, Mendel M., 3,641,350.
Philipchuk, Vasil, 3,635,163.
Phillips, Edwin N., 3,659,142.
Pida, George, 3,691,515.
Pipkin, Edward L., 3,705,381.
Pittman, Ed P.; and Stanford, Roy A., 3,641,427.
Plenge, Richard D., 3,677,132.
Polk, Albert S., Jr., 3,659,424.

Porter, Harry B.; and Weinhardt, Robert A., 3,640,484.
Potteiger, Lester A., 3,677,179.
Price, Edward W., 3,665,706.
Prince, Thomas E., 3,635,108.
Proctor, Richard D. J., 3,663,925.
Pryor, Cabell N., Jr., 3,646,333.
Pryor, Cabell N., Jr., 3,660,647.
Rabenhorst, David W.; and Darnell, Kenneth E., 3,671,965.
Rabon, James L.; Biegler, Warren H.; and Kelly, Ramond E., 3,702,014.
Radford, James E., 3,706,294.
Rainsberger, Paul J.; and Dye, Charles M., Jr., 3,702,394.
Ramsay, James M., 3,698,098.
Reams, William H., 3,677,185.
Reed, Jerry L., 3,631,678.
Regan, Edgar P., Jr., 3,657,050.
Reines, Scott A., 3,706,772.
Reines, Scott A., 3,707,483.
Renna, Nicholas, Jr., 3,706,967.
Robbins, Roland W., Jr., 3,667,415.
Roberts, Paul C., 3,665,764.
Roberts, Richard A.; and Jones, John R., 3,679,157.
Roberts, William E.; and Barry, Gerald J., 3,679,215.
Roeschlein, Eugene R.; Weiss, Donald C.; and Zeph, David L., 3,656,096.
Roeschlein, Eugene R., 3,700,780.
Roeschlein, Eugene R.; Weiss, Donald C.; and Zeph, David L., 3,704,364.
Rose, Millard F.; and Talley, James C., 3,664,262.
Rosenberg, Edgar N., 3,704,443.
Rosendahl, Gottfried R., 3,702,395.
Rotondo, Fortunato N.; Toledo, Emil; and Lawrence, Leslie, 3,696,846.
Roy, Edmond A.; Coolbaugh, James C.; Norris, Wayne D.; and Arm, Herbert G., 3,694,146.
Rozner, Alexander G.; and Helms, Horace H., Jr., 3,634,283.
Salata, Eugene A., 3,700,269.
Saunders, Raymond A., 3,662,520.
Sayre, Jack L., 3,672,717.
Scheibe, Harold R.; and Blankenship, John E., 3,700,350.
Scheid, James E., 3,667,762.
Schmitschek, Erhard J., 3,654,568.
Schmitschek, Erhard J.; and Trias, John A., 3,699,211.
Schmidt, Richard, 3,667,108.
Schneider, William E., 3,664,371.
Schuh, Paul D., 3,633,157.
Schulman, Marvin, 3,645,259.
Schultheis, Stephen K., 3,644,071.
Scott, Allan W.; and Hiramatsu, Yukio, 3,693,038.
Seminatore, Albert F., 3,701,954.
Shapiro, Sidney; and Longacre, Andrew, Jr., 3,671,848.
Sheffer, Sydney, 3,697,434.
Shira, Glenn L.; and Ruff, Joseph N., 3,698,318.
Short, James E., Jr., 3,699,890.
Sicard, L. John; and Foster, Christopher G., 3,638,123.
Silver, Wallace E.; and Sherman, Jack, 3,661,047.
Simms, Bernard B.; Stein, Alvin A.; and Larosa, Charles N., 3,696,621.
Slates, Elmer F., 3,639,077.
Smith, Harold R., 3,647,164.
Smith, Richard A., 3,652,877.
Smith, Richard M., 3,700,910.
Sniffin, Millard T., 3,656,447.
Soli, Giorgio, 3,674,648.
Soules, Jack A., 3,647,298.
Spencer, John H.; Ramsey, Richard T.; and Gilbertson, Warren L., 3,669,021.
Springston, George B., Jr.; Thomas, Samuel L.; and Miller, Fred B., 3,677,082.
Stallings, Leon; Devine, Martin J.; Maerker, Gerhard; and Eisner, Abner, 3,671,431.
Starr, James B., 3,648,764.
Starr, James B., 3,648,765.
Starr, James B., 3,658,095.
Starr, James B., 3,661,324.
Starr, James B., 3,669,135.
Stedman, Robert J., 3,700,799.
Sternberg, Hyman M.; Piacesi, Dante, Jr.; and Katz, Howard, 3,675,577.
Stiles, Hallett R.; and Vinatieri, John D., 3,636,268.
Stimson, Paul B., 3,706,225.
Stone, Albert M.; and Westerfield, Edwin E., 3,680,124.
Strapp, Joseph P.; and Cornford, Neri E., 3,706,962.
Sullivan, Dean R., 3,665,326.
Sullivan, Shelby F.; and Whitehouse, Harper John, 3,632,703.
Suter, Henry, 3,646,506.
Swedenberg, Clyde J.; and Czesla, Manfred J., 3,697,340.
Swet, Charles J., 3,676,581.
Swiatosz, Edmund; and Chambers, Walter S., 3,675,343.
Synstad, Alvin R.; Burges, Luther M.; and Day, Paul P., 3,696,495.
Szumila, Anthony D.; Zimnoch, Joseph J.; Bechtel, John D.; and Steinberg, Harvey M., 3,671,865.
Taczak, William J., Jr., 3,699,339.
Talley, James C., 3,677,183.
Tanenhaus, Martin, 3,675,030.
Taylor, James W., 3,633,155.
Taylor, Lawrence B.; Bentz, Raymond L.; and Porter, Robert B., 3,706,535.
Taylor, Randolph G., 3,638,059.
Taylor, Richard R.; and MacKay, Frank A., 3,702,002.
Thomas, Aubrey M.; and Holston, Aubrey G., 3,662,260.
Thomas, Marshall K., Jr.; and Thompson, James N., 3,667,535.
Toledo, Emil, 3,634,207.
Toledo, Emil; and Sprague, Dennis R., 3,661,728.
Tosman, Barry E.; Mobley, Frederick F.; and Fischell, Robert E., 3,637,169.
Tribken, Everett R.; and Miller, Frederic L., 3,671,904.
Trilling, Ted R., 3,659,143.
Trochanowski, Andrew J.; and Wicks, Steven A., 3,671,964.
Turek, Robert F., 3,704,628.
Turner, James W.; and Spinks, Ray E., 3,656,211.
Uhrich, Richard W.; and Held, Jimmy L., 3,703,968.
Vallent, Martin A., 3,668,679.
Vass, Oscar R., 3,706,964.
Venezky, David L., 3,639,473.
Venezky, David L., 3,654,189.
Versaw, Edward F.; Moe, Herbert C.; and Reed, Jerry L., 3,693,880.
Villard, Oswald G., Jr., 3,704,420.
Vind, Harold P., 3,656,276.
Waldron, Alton L., 3,658,101.
Wall, Leo A.; and Antonucci, Joseph M., 3,655,785.
Warnock, Frederick E.; and Malloy, John H., 3,667,342.
Warren, Samuel C., 3,676,699.
Watkins, Phillip L.; and Cox, Raymond W., 3,700,931.
Watson, James K., 3,697,019.
Wehner, Donald R., 3,636,562.
Weimholt, James E., 3,661,083.
Welch, Robert E.; Kelly, Raymond E.; and Ward, Russell S., 3,631,830.
Welk, Horace B., Jr., 3,665,767.
Weller, Richard D., 3,663,297.
West, Gaylon L., 3,665,860.
Westaway, Thomas A., 3,680,104.
White, Richard M.; Lee, Robert E.; and Turner, Charles W., 3,673,474.
Whitehouse, Harper John; and Sullivan, Shelby F., 3,663,934.
Whitehouse, Harper John, 3,701,147.
Whitener, Philip C., 3,645,223.
Wickman, Miles X.; and Cohn, Harold P., 3,703,682.
Willard, Robert C.; Dauer, Harold L.; and Noles, Ronald Clifford, 3,661,087.
Willard, Robert C.; Craig, Jimmie M.; and Jackson, Lloyd J., 3,706,277.
Willey, Ronald R., 3,658,410.
Williams, Melvin F., 3,665,469.
Winget, Clifford L.; Gibson, George W.; and Shultz, William S., 3,664,438.
Woerrlein, Hermann H., 3,680,100.
Wolff, Hanns H., 3,660,843.
Wolff, Hanns H., 3,675,342.
Wolff, Hans H., 3,699,669.
Woodman, Alan L.; and Adicoff, Arnold, 3,638,698.
Woodworth, William H.; and Crawford, Jack A., 3,661,347.
Wright, Billy D., 3,680,137.
Wyatt, Theodore, 3,698,661.
Zall, David M., 3,700,409.
Zeph, David L., 3,673,501.
Zeph, David L., 3,699,763.
Zimmer-Galler, Roswitha; and Rose, James E., 3,701,697.
Navy, mesne: See—
Albright, John D., 3,653,769.
Arvidson, Carl D., 3,680,310.
Barry, George H., 3,704,463.
Baum, Kurt, 3,637,848.
Beatrice, Finton J., 3,648,041.
Belohoubek, Erwin F., 3,639,802.
Belohoubek, Erwin F., 3,641,388.
Bentkowsky, Jerome; and Beran, W. Tait, 3,667,227.
Bickert, Herbert W., 3,673,511.
Block, Burton P.; Sprout, Oliver S., Jr.; and Dahl, Gerd H., 3,663,274.
Brady, Jack C.; and Fewel, Kenneth J., 3,696,894.
Bruch, Charles A., 3,635,801.
Bruder, John F., 3,649,904.
Buchholz, Donald E.; Miller, Robert E.; Pickering, Richard W.; and White, Douglas L., 3,634,887.

- Calhoon, Charles D., Sr.; Goetz, Louis P.; and Smith, Harry B., 3,701,989.
 Campanella, Matthew J., 3,646,558.
 Cleveland, William C., 3,643,028.
 Coburn, William K.; and Hillger, Richard E., 3,649,735.
 Colgate, Stirling A.; Kempton, Marvin L.; Hanson, Merle E.; Munson, William O.; and Nicholson, Dallas E., 3,696,750.
 Emch, George F., 3,697,990.
 Evans, Robert W., 3,670,657.
 Feight, Robert A.; Ferris, De Lacy F.; and Hunter, Frank B., 3,638,669.
 Ferris, De Lacy F., 3,638,905.
 Fischell, Robert E., 3,671,286.
 Fitzpatrick, Hugh M.; Neville, James J.; Thompson, John; and Boggs, Fitzhugh W., 3,648,226.
 Foley, James W. B., 3,646,507.
 Foley, Thomas P., 3,680,106.
 Gooding, Otis E.; and Dixon, Alton E., 3,674,934.
 Grabowski, Joseph P., 3,701,163.
 Grakauskas, Vytautas, 3,652,600.
 Grundy, Douglas; and Willis, John E., 3,698,420.
 Gullion, Billy B., 3,653,020.
 Hamlen, Robert P.; and Siwek, Erwin G., 3,645,794.
 Healey, Daniel J., III; and Driscoll, Michael M., 3,697,890.
 Hickerson, Robert L., 3,638,021.
 Hicks, Robert E., 3,647,533.
 Hoffman, Leonard M.; and Kimball, John B., 3,672,605.
 Hubich, Henry O., 3,643,599.
 Iwanciw, Bernard L.; and Chase, Robert A., 3,664,133.
 Kempton, Marvin L., 3,696,751.
 Kladde, Gerhard A., 3,662,278.
 Kleptz, James A.; and Bissell, George H., 3,697,992.
 Kopeck, John C.; Schmitt, Henry O., Jr.; and Tenney, Frederick H., 3,699,892.
 Lindberg, Frank A., 3,670,396.
 Logis, John; and Scheerer, Ronald C., 3,636,427.
 Lum, Andrew F.; and Tannenbaum, Stanley, 3,658,609.
 Lunt, Wilbur B.; and Haskell, Robert A., 3,670,653.
 Mackenzie, John C., 3,660,155.
 Madison, Theodore C., 3,663,933.
 Marsh, Lawrence B., 3,660,594.
 Martin, Raymond Gerald, 3,653,351.
 Matthaei, George L.; and Leedom, David A., 3,649,934.
 Morrison, Steven, 3,699,423.
 Murphy, John C.; and Kues, Henry A., Jr., 3,657,372.
 Northan, Barbara J.; and Boies, David B., 3,642,653.
 O'Hara, Francis J.; and Plunk, Troy E., 3,699,574.
 Osborne, Eugene F.; and Rueger, Lauren J., 3,662,269.
 Piper, Thomas E., 3,665,151.
 Schwarz, Hans G., 3,671,867.
 Stoltze, Leon; and Laun, Fred David, 3,659,306.
 Sutherland, Gordon, 3,637,576.
 Swet, Charles J., 3,635,425.
 Talwani, Manik, 3,633,003.
 Wyatt, Theodore, 3,652,033.
 Postmaster General: See—
 Hogue, Ephraim W., 3,670,169.
 United States Packaging Corporation: See—
 Mennen, Frederick C., 3,645,517.
 Mennen, Frederick C., 3,663,185.
 United States Pipe and Foundry Company: See—
 De Vos, Jacques, 3,670,800.
 United States Shoe Corporation, The: See—
 Edelberg, Alan K.; and Swanfeldt, Roy T., 3,661,681.
 United States Smelting, Refining & Mining Company: See—
 Smyers, Frank C.; and Garrison, John H., 3,679,395.
 United States Steel Corporation: See—
 Abarotin, Eugene V.; Nicely, Thomas E.; and Wilshire, Robert A., Jr., 3,650,315.
 Allen, William S.; and Serra, Guy, 3,642,587.
 Ambruster, Joseph R., 3,633,707.
 Andrzejak, Sigmund L.; Orehsoski, Michael A.; and Shapland, James T., 3,684,267.
 Armstrong, Floyd, Jr., 3,661,357.
 Ashworth, James E., 3,671,062.
 Ashworth, James E., 3,685,802.
 Ashworth, James E., 3,705,468.
 Ashworth, Robert H., 3,704,220.
 Atkins, Anthony G.; Estes, Bay E., III; and Renner, Richard L., 3,688,571.
 Auman, Paul M.; and Wagstaff, James B., 3,633,654.
 Avalone, Samuel C., 3,700,494.
 Ball, Claire G.; Grimm, Arthur C.; and Melville, Thomas, 3,650,785.
 Bawden, Orval C.; and Dimick, Frank A., 3,653,114.
 Baxter, Calvin J.; and Thomas, McKinley B., 3,700,222.
 Benford, James G.; and Stanley, Edward B., 3,644,185.
 Blanchet, Raymond J.; and Stanton, William G., 3,704,580.
 Bobart, George F.; and Emerson, William A., 3,705,967.
 Bode, Charles H., Jr., 3,687,433.
 Bode, Charles H., Jr., 3,700,073.
 Brickner, Kenneth G.; and Ratz, George A., 3,655,459.
 Brickner, Kenneth G.; and Ratz, George A., 3,684,589.
 Brickner, Kenneth G., 3,694,192.
 Brickner, Kenneth G., 3,700,432.
 Callaghan, Robert H.; and Masciantonio, Philip X., 3,644,508.
 Callaghan, Robert H.; and Masciantonio, Philip X., 3,705,922.
 Carter, Daniel T., 3,634,223.
 Chiang, Peter T., 3,707,357.
 Cichoski, Sylvester A.; Damon, Paul H.; Golembeski, Ronald J.; and Lawler, William P., 3,687,778.
 Connelly, Eugene B., 3,656,219.
 Cutton, John G.; and Welsch, George A., Jr., 3,634,073.
 Dabkowski, Donald S.; and Porter, Lew F., 3,692,591.
 Dalley, Lawrence A., 3,687,301.
 Douty, Donald L., 3,703,979.
 Douty, Donald L., 3,704,818.
 Douty, Donald L., 3,705,670.
 Douty, Donald L., 3,705,671.
 Earl, Alma L., 3,635,691.
 Emerson, William A., 3,663,782.
 Emerson, William A.; and Redmond John A., 3,674,971.
 Ewing, Roy D.; and Rizzone, Michael L., 3,695,117.
 Foucar, Harry G., 3,643,451.
 Gallucci, Francis, 3,643,818.
 Gee, Lawrence N.; Marrs, Kenneth M.; and Rutkin, Edwin S., 3,650,512.
 Gibson, Charles I.; and Maley, Wayne A., 3,704,808.
 Gordon, Howard W.; and Shepard, James N., 3,698,613.
 Grosko, John A., 3,689,047.
 Hadberg, Edward J., 3,705,717.
 Haddock, Logan D., 3,691,440.
 Hamilton, Colin B.; and Oles, Edward J., Jr., 3,671,407.
 Harris, Leonard F., 3,687,007.
 Harvey, Mahlon A.; and Stricker, Charles D., 3,707,400.
 Hawthorne, John O.; and Mihelic, Edward L., 3,668,232.
 Helwig, Lawrence E.; and Lewis, Leon L., 3,634,147.
 Hofmann, Gottfried, 3,633,655.
 Hofmann, Gottfried; and Stull, James T., 3,670,804.
 Hofmann, Gottfried; and Stull, James T., 3,672,438.
 Hollingsworth, Willis W., 3,682,457.
 Hudson, Robert M.; Stoner, Dorald W.; and Stragand, George L., 3,653,990.
 Hudson, Robert M.; and Warning, Clair J., 3,707,408.
 Johnson, Thomas E., Jr.; and Mould, Peter R., 3,706,026.
 Jurkovic, Joseph W., Sr.; and Schultz, Donald E., 3,653,519.
 Kelso, John W., 3,647,669.
 Kennedy, Frank; and Roberts, Thomas C., 3,672,486.
 Kleysteuber, William K., 3,633,696.
 Kniepkamp, Glenn E., 3,692,971.
 Kolobielski, Marjan, 3,655,626.
 Kumant, Karl E., 3,661,196.
 Kuzmicki, Roland T., 3,656,437.
 Lankard, David R.; and Sheets, Herbert D., Jr., 3,640,737.
 Lee, Verne E., 3,643,724.
 Lightner, Max W., 3,692,443.
 Long, Alvah C., Jr.; and Stolic, Edward J., 3,648,497.
 Longhi, Anthony M., 3,684,002.
 Lucht, Wilbert A., 3,668,020.
 Lyman, Richard E., 3,633,653.
 Maravilla, Sam, 3,650,786.
 Martin, Wayne A., 3,638,471.
 Masciantonio, Philip X.; and Mihelic, Edward L., 3,668,121.
 Melia, Thomas J., 3,699,237.
 Mester, Michael L., 3,694,735.
 Moore, Wesley W.; and Redwine, Fletcher H., 3,658,298.
 Motz, Fred J.; and Shufan, Stephen, 3,667,409.
 Moyer, Robert C., 3,644,189.
 Muisel, Gordon J., 3,668,043.
 Nickelsen, Hubert O.; Kopanda, Joseph E.; and Piasecki, Felix J., 3,677,781.
 Nickerson, John D.; and Wiesboeck, Robert A., 3,634,034.
 Palumbo, Pete, 3,647,053.
 Patterson, Robert W., 3,670,695.
 Patterson, Robert W., 3,685,484.
 Phillips, Boris, 3,656,270.
 Pilling, Arthur F., 3,699,795.
 Platko, John M., 3,688,542.
 Podgurski, Harry H., 3,684,590.
 Pond, Robert B., Sr., 3,685,568.
 Pops, Horace, 3,667,932.
 Prellwitz, Samuel B.; and Pysnik, Joseph, 3,635,082.
 Ratiff, George D., Jr., 3,704,560.
 Regitz, Lester J., 3,657,024.
 Rittiger, Robert S.; and Russell, Charles K., 3,668,099.
 Rizzone, Michael L., 3,704,904.
 Rudolph, Ralph G., 3,670,571.
 Rudov, Walter B., 3,638,712.
 Sallo, Richard L.; and Stricker, Charles D., 3,668,090.
 Saunders, Leonard M., 3,633,656.
 Saunders, Leonard M., 3,704,745.
 Schurr, Harry W., II, 3,632,097.

- Schwartz, George F., 3,631,916.
 Shannon, Robert A.; and Waters, Charles A., 3,690,636.
 Shapland, James T., 3,685,707.
 Shcurr, Harry W., II, 3,672,652.
 Stanley, Edward B., 3,640,780.
 Stull, James T., 3,643,731.
 Stull, James T., 3,662,813.
 Taylor, Rene A., 3,688,508.
 Teplitz, Alfred, 3,703,923.
 Thiele, Robert E., 3,638,756.
 Thiele, Robert E., 3,648,755.
 Thornsberry, George W., 3,643,791.
 Ullman, John E.; and Rollings, Ernest J., Jr., 3,696,838.
 Wagner, George J., 3,692,094.
 Wakefield, Frederick W., 3,636,234.
 Wakefield, Frederick W., 3,694,736.
 Wandisco, Joseph M., 3,705,531.
 Wiesboeck, Robert A., 3,635,673.
 Wiesboeck, Robert A., 3,654,330.
 Wiesboeck, Robert A., 3,690,821.
 Williams, Eugene, 3,690,870.
 Yu, Quin Shen, 3,656,538.
 Yu, Quin Shen, 3,663,051.
 Zemberry, William L., 3,668,517.
 Zemberry, William L., 3,672,708.
 United States Surgical Corporation: See—
 Amato, Joseph John, 3,643,649.
 Bryan, Graham W., 3,662,939.
 Bryan, Graham W.; and Green, David T., 3,675,688.
 Green, David T.; and Bryan, Graham W., 3,643,851.
 Noiles, Douglas G.; and Bryan, Graham W., 3,638,847.
 Noiles, Douglas G.; and Bryan, Graham W., 3,665,924.
 Noiles, Douglas G., 3,683,927.
 Smith, Forrest P., Jr., 3,650,453.
 United States Tobacco Company: See—
 Boyd, Eugene J., 3,646,743.
 De Voe, John M., 3,678,674.
 United Systems Corporation: See—
 Petrohilos, Harry G., 3,665,305.
 United Technology Center: See—
 Feemster, John R., 3,682,597.
 United Tool Processes Corporation: See—
 Reed, Everett E.; and Boynton, James S., 3,674,375.
 United-Carr, Incorporated: See—
 Vetter, Ottomar H., 3,675,184.
 Vetter, Ottomar H., 3,678,439.
 Watkins, John A., 3,636,557.
 Unitek Corporation: See—
 Laub, Joseph L., 3,664,567.
 Mansour, Moutaz Nossii, 3,678,768.
 Unitika Kabushiki Kaisha: See—
 Kuga, Mutsuo; Mashimo, Takeshi; Watanabe, Junkichi; Arai, Teruo; and Yano, Yoshihiko, 3,651,200.
 Unitika Ltd.: See—
 Fujimoto, Hiroshi; and Fukuda, Mitsugu, 3,677,940.
 Hada, Yukihiko, 3,667,292.
 Saito, Norio; and Kimura, Hiroshi, 3,703,588.
 Unitrade Corporation: See—
 Simon, Edward, 3,697,827.
 Unifon International Systems, Inc.: See—
 Madsen, Andrew; and Hardy, John W., 3,634,675.
 Unity Railway Supply Co., Inc.: See—
 MacDonnell, Robert W., 3,698,545.
 Universal Business Machines, Incorporated: See—
 Tringali, Dominick, 3,691,392.
 Universal Corrugated Box Machinery Corporation: See—
 Lopez, John, 3,643,940.
 Universal Dispensers, Ltd.: See—
 Manuel, Malcolm O., 3,637,274.
 Universal Electric Company: See—
 Dryburgh, Paul E., 3,648,938.
 Phillips, Benjamin, 3,701,574.
 Universal Harvester Co., Inc.: See—
 Gibson, Charles M., 3,667,198.
 Universal Instruments Corporation: See—
 Ackerman, Daniel Whitney, 3,670,784.
 Ackerman, Daniel Whitney, 3,701,367.
 Bates, Erwin F., 3,636,624.
 Ragard, Phillip A., 3,646,659.
 Ragard, Phillip A., 3,696,713.
 Universal Maschinenfabrik Dr. Rudolf Schieber KG: See—
 Krause, Erich, 3,646,783.
 Krause, Erich, 3,677,037.
 Universal Oil Products Company: See—
 Adams, George F., 3,702,347.
 Anderson, Robert F., 3,707,580.
 Arfaras, George; Brunelle, Reni J.; and Richardson, Robert J., 3,632,161.
 Arrigo, Joseph T.; and Christensen, Nils J., 3,663,626.
 Arrigo, Joseph T.; and Christensen, Nils J., 3,678,108.
 Arrigo, Joseph T., 3,706,802.
 Arrigo, Joseph T.; and Sparks, Allen K., 3,707,481.
 Auriemma, Nicholas A., 3,679,065.
 Auriemma, Nicholas Alfred, 3,651,894.
 Bajek, Walter A.; and McLaughlin, James H., 3,647,634.
 Bajek, Walter A.; and McLaughlin, James H., 3,647,635.
 Bajek, Walter A.; and McLaughlin, James H., 3,649,202.
 Bajek, Walter A.; and Boyd, David M., Jr., 3,668,392.
 Baruth, Elmore J.; and Smaxwill, Robert M., 3,649,974.
 Benghiat, Isaac, 3,691,275.
 Benghiat, Isaac, 3,700,760.
 Berger, Charles V., 3,669,876.
 Berger, Charles V.; and Broughton, Donald B., 3,700,744.
 Bloch, Herman S., 3,654,129.
 Bloch, Herman S.; and Lester, George R., 3,660,503.
 Bloch, Herman S., 3,678,120.
 Bloch, Herman S.; Illingworth, George E.; and Lester, George W., 3,681,424.
 Bloch, Herman S.; Illingworth, George E.; and Lester, George W., 3,681,442.
 Bloch, Herman S., 3,682,838.
 Boyd, David M., 3,652,450.
 Boyd, David M., 3,652,451.
 Boyd, David M.; and Gerhold, Clarence G., 3,696,618.
 Brennan, John F., 3,672,534.
 Breunich, Theodore R.; and Klatte, Henry B., 3,651,539.
 Breunich, Theodore R.; and Dinoia, Emanuel J., 3,662,603.
 Brewer, Gerald L., 3,706,533.
 Broughton, Donald B., 3,636,180.
 Broughton, Donald B., 3,700,417.
 Brown, Kenneth M., 3,672,836.
 Carson, Don B., 3,685,971.
 Carson, Don B.; and Hennemuth, William R., 3,697,416.
 Conner, Algie J.; and Adams, Frank H., 3,696,026.
 Cyba, Henryk A., 3,634,314.
 Cyba, Henryk A., 3,637,358.
 Cyba, Henryk A., 3,637,587.
 Cyba, Henryk A., 3,644,217.
 Cyba, Henryk A., 3,646,098.
 Cyba, Henryk A., 3,646,101.
 Cyba, Henryk A., 3,647,609.
 Cyba, Henryk A., 3,654,220.
 Cyba, Henryk A., 3,660,289.
 Cyba, Henryk A., 3,661,984.
 Cyba, Henryk A., 3,668,236.
 Cyba, Henryk A., 3,668,237.
 Cyba, Henryk A., 3,669,926.
 Cyba, Henryk A., 3,673,186.
 Cyba, Henryk A., 3,705,127.
 De Palma, Ted V.; and Carleton, Robert S., 3,644,098.
 De Palma, Ted V.; and Perga, Martin W., 3,649,213.
 De Palma, Ted V., 3,665,906.
 De Rosset, Armand J., 3,651,167.
 De Rosset, Armand J.; Wackher, Richard C.; and Massie, Stephen N., 3,689,405.
 De Rosset, Armand J.; and Neuzil, Richard W., 3,706,812.
 De Young, Edwin L., 3,655,791.
 De Young, Edwin L., 3,691,249.
 DeRosset, Armand J., 3,665,046.
 Di Noia, Emanuel J.; and Breunich, Theodore R., 3,678,750.
 DiNoia, Emanuel J.; Klatte, Henry B.; and Breunich, Theodore R., 3,686,708.
 Dombro, Robert A., 3,639,456.
 Dombro, Robert A., 3,644,426.
 Dombro, Robert A., 3,661,937.
 Dunkel, Morris, 3,663,601.
 Eyermaun, Volker W., 3,652,452.
 Fenske, Ellsworth R.; and Sampson, Robert W., 3,672,840.
 Fessler, Leroy E., 3,702,236.
 Folling, Norman D., 3,652,126.
 Gatsis, John G., 3,635,838.
 Gatsis, John G., 3,645,912.
 Gatsis, John G., 3,671,418.
 Gatsis, John G., 3,705,092.
 Gatsis, John G., 3,707,461.
 Gaydasch, Alexander, 3,673,149.
 Gaydasch, Alexander, 3,681,038.
 Geiser, Edward M., 3,640,629.
 Gleim, William K. T., 3,657,111.
 Gleim, William K. T., 3,694,352.
 Greenwood, Arthur R.; and Vesely, Kenneth D., 3,647,680.
 Greenwood, Arthur R.; and Vesely, Kenneth D., 3,652,231.
 Greenwood, Arthur R.; and Vesely, Kenneth D., 3,692,496.
 Greenwood, Arthur R.; Heinze, Walter W.; Schnitta, Edward; and Boyd, David M., 3,706,536.
 Hall, Garth O.; and Tengler, Harvey N., 3,632,077.
 Hall, Garth O., 3,668,870.
 Hallman, Newt M., 3,666,658.
 Hallman, Newt M., 3,682,780.
 Hallman, Newt M., 3,684,698.
 Hallman, Newt M., 3,691,059.
 Hamblin, Robert J. J., 3,634,037.

Hamblin, Robert J. J., 3,697,413.
 Hardison, Leslie C., 3,632,304.
 Hardison, Leslie C., 3,632,305.
 Hardison, Leslie C., 3,701,823.
 Hardison, Leslie C.; and Guerrieri, Salvatore A., 3,704,569.
 Harmon, Emerson R., 3,662,309.
 Hausler, Rudolf H.; and Goeller, Leonard A., 3,696,048.
 Hausler, Rudolf H.; and Goeller, Leonard A., 3,696,049.
 Hausler, Rudolf H.; and Goeller, Leonard A., 3,705,109.
 Hayes, John C., 3,632,503.
 Hayes, John C.; and Sobel, Jay E., 3,632,709.
 Hayes, John C., 3,634,292.
 Hayes, John C., 3,637,879.
 Hayes, John C., 3,642,656.
 Hayes, John C., 3,645,888.
 Hayes, John C., 3,647,719.
 Hayes, John C., 3,649,564.
 Hayes, John C.; and Pollitzer, Ernest L., 3,649,566.
 Hayes, John C., 3,649,704.
 Hayes, John C., 3,652,697.
 Hayes, John C., 3,660,308.
 Hayes, John C.; Mitsche, Roy T.; Rausch, Richard E.; and Wilhelm, Frederick C., 3,660,309.
 Hayes, John C.; and Pollitzer, Ernest L., 3,691,064.
 Hayes, John C., 3,700,742.
 Hayes, John C.; Mitsche, Roy T.; Rausch, Richard E.; and Wilhelm, Frederick C., 3,702,293.
 Hervert, George L., 3,662,005.
 Hervert, George L., 3,686,354.
 Hilfman, Lee, 3,640,903.
 Hilfman, Lee, 3,649,525.
 Hoffman, Alfred E., 3,663,505.
 Horvath, Edward, 3,661,805.
 Horvath, Edward; and Youngman, Gary, 3,673,111.
 Hutchings, Leroy E., 3,696,022.
 Jones, Edwin K., 3,632,659.
 Jones, Edwin K., 3,658,306.
 Jones, Edwin K., 3,690,839.
 Jones, Edwin K., 3,705,017.
 Kahn, Samuel, 3,642,906.
 Kellar, James S., 3,702,346.
 Klein, Lawrence C.; and Stevens, Laurence G., 3,632,308.
 Klein, Lawrence C.; and Stevens, Laurence G., 3,640,684.
 Kuchar, Paul J., 3,635,815.
 Latos, Edwin J.; and Rosenwald, Robert H., 3,635,823.
 Latos, Edwin J.; and Rosenwald, Robert H., 3,649,536.
 Lester, George R., 3,634,529.
 Lester, George R., 3,649,706.
 Lester, George R., 3,649,707.
 Lester, George R., 3,652,694.
 Lester, George R., 3,652,695.
 Lester, George R.; and Brennan, John F., 3,679,704.
 Levy, Joseph; and Walker, William, 3,660,411.
 Levy, Joseph; and Psihas, James, 3,678,048.
 Likness, David M., 3,667,615.
 Lockwood, Lawrence S., 3,690,842.
 Louvar, James J., 3,632,633.
 Lowe, Charles B., 3,661,176.
 Lowe, Charles B., 3,669,400.
 Ludwigen, Orville I.; and Dudyck, Daniel, 3,705,016.
 Massie, Stephen N.; and Daum, Robert E., 3,662,006.
 Massie, Stephen N., 3,679,740.
 Massie, Stephen N., 3,705,201.
 Massie, Stephen N., 3,705,202.
 Massie, Stephen N., 3,705,912.
 Mc Larty, Jack Lowrie, 3,669,782.
 McCallister, Kenneth R.; and O'Neal, Thomas P., 3,654,184.
 McLarty, Jack Lowrie, 3,635,256.
 McLarty, Jack Lowrie, 3,673,029.
 McLarty, Jack Lowrie, 3,687,762.
 McLellan, Donald J.; and Stotts, Roger B., 3,681,974.
 Mitsche, Roy T.; and Pollitzer, Ernest L., 3,632,835.
 Mitsche, Roy T., 3,642,660.
 Mitsche, Roy T., 3,644,219.
 Mitsche, Roy T.; and Michalko, Edward, 3,677,973.
 Moravec, Terrence D., 3,653,845.
 Morrison, William F.; and Hauser, Henry A., 3,677,715.
 Nagl, Gary J., 3,642,613.
 Neuzil, Richard W., 3,663,638.
 Neuzil, Richard W., 3,686,342.
 Neuzil, Richard W., 3,706,813.
 O'Hara, Mark J., 3,637,525.
 O'Hara, Mark J., 3,640,817.
 O'Hara, Mark J., 3,666,685.
 Olson, Robert K., 3,654,133.
 Perga, Martin W.; DePalma, Ted V.; Fessler, LeRoy E.; and Brons, Albert J., 3,649,215.
 Perga, Martin W.; and DePalma, Ted V., 3,657,892.
 Perga, Martin W., 3,695,851.
 Phillips, Russell J., 3,651,560.
 Pollitzer, Ernest L., 3,649,526.
 Pollitzer, Ernest L.; and Hilfman, Lee, 3,663,425.
 Pollitzer, Ernest L., 3,679,602.
 Pollitzer, Ernest L., 3,684,742.
 Pollitzer, Ernest L., 3,692,666.
 Radke, Arthur O., 3,632,164.
 Radke, Arthur O.; Hall, Garth O.; and Tengler, Harvey N., 3,702,179.
 Ramquist, Frederick C.; and Wackher, Richard C., 3,636,127.
 Rausch, Richard E., 3,632,525.
 Rausch, Richard E., 3,642,925.
 Rausch, Richard E., 3,649,703.
 Rausch, Richard E., 3,694,347.
 Rausch, Richard E., 3,702,294.
 Rosback, Donald H., 3,649,176.
 Rosback, Donald H., 3,649,177.
 Rosenwald, Robert H., 3,647,637.
 Rosenwald, Robert H., 3,653,853.
 Rosenwald, Robert H.; and Gaydasch, Alexander, 3,672,854.
 Rosenwald, Robert H., 3,686,315.
 Schmerling, Louis, 3,634,510.
 Schmerling, Louis, 3,637,883.
 Schmerling, Louis, 3,641,159.
 Schmerling, Louis; and Dombro, Robert A., 3,641,165.
 Schmerling, Louis, 3,644,547.
 Schmerling, Louis, 3,649,697.
 Schmerling, Louis, 3,649,698.
 Schmerling, Louis; and Dombro, Robert A., 3,652,684.
 Schmerling, Louis, 3,655,797.
 Schmerling, Louis, 3,660,473.
 Schmerling, Louis, 3,660,496.
 Schmerling, Louis, 3,678,087.
 Schmerling, Louis, 3,678,122.
 Schmerling, Louis, 3,679,759.
 Schmerling, Louis, 3,679,760.
 Schuller, Richard P., 3,650,943.
 Shoffner, James P., 3,634,318.
 Shoffner, James P., 3,673,204.
 Sinfeld, Donald, 3,632,167.
 Sobel, Jay E.; and Foley, John C., 3,652,749.
 Sparks, Allen K.; and Latos, Edwin J., 3,645,966.
 Sparks, Allen K., 3,670,030.
 Sparks, Allen K., 3,683,030.
 Stedman, Russell F., 3,689,238.
 Stine, Laurence O.; and Broughton, Donald B., 3,636,121.
 Stine, Laurence O., 3,696,024.
 Stine, Laurence O.; and Broughton, Donald B., 3,707,550.
 Thompson, Herbert Lytle, 3,702,295.
 Touval, Irving; and Altwicker, Elmar R., 3,678,071.
 Uitti, Kenneth D.; and Broughton, Donald B., 3,632,315.
 Uitti, Kenneth D.; and Carson, Don B., 3,700,216.
 Urban, Peter, 3,635,820.
 Urban, Peter, 3,644,087.
 Urban, Peter, 3,649,183.
 Urban, Peter; and Rosenwald, Robert H., 3,672,835.
 Urban, Peter, 3,672,837.
 Van Tassell, Harry M., 3,642,614.
 Vesely, Jerome A., 3,637,884.
 Vesely, Jerome A.; and Schmerling, Louis, 3,678,104.
 Vesely, Kenneth D.; and Gass, Harold D., Jr., 3,647,911.
 Vesely, Kenneth D., 3,654,186.
 Vesely, Kenneth D., 3,681,259.
 Wager, John Stewart, 3,669,399.
 Ward, Dennis J., 3,699,209.
 Watkins, Charles H., 3,640,819.
 Watkins, Charles H., 3,649,518.
 Watkins, Charles H., 3,649,519.
 Watkins, Charles H., 3,687,629.
 Watkins, Charles H., 3,702,237.
 Weith, James D., 3,706,655.
 Weith, James D., 3,706,656.
 Wellnitz, Gregory L., 3,640,286.
 Wiley, Charles L., 3,672,874.
 Wilhelm, Frederick C., 3,644,198.
 Wilhelm, Frederick C., 3,649,565.
 Wilhelm, Frederick C., 3,705,111.
 Williams, Archibald H.; Germanas, Dalia; and Donaldson, George R., 3,637,881.
 Youtsey, Karl J.; Holt, William C., Jr.; Carnahan, Robert D.; and Spielberg, David H., 3,651,386.
 Universal Oil Products Company, mesne: See—
 Predikant, Hans H. Hailer; Betz, Hermann; and Schaeffer, Johann, 3,660,019.
 Sember, Joseph; and McGregor, Eugene R., 3,661,422.
 Universal Packaging Corporation: See—
 Perry, George S., 3,638,853.
 Universal Products Company: See—
 Sparks, Allen K., 3,677,945.
 Universal Railway Devices Company: See—
 Natschke, Eldred H., 3,668,944.
 Natschke, Eldred H., 3,690,420.
 Universal Refractories Corporation: See—

Varrati, Anthony J., 3,645,320.
 Varrati, Anthony J., 3,682,770.
 Universal Research Company: See—
 Dreyer, Allen E., 3,690,672.
 Universal Saddle Hanger, Inc.: See—
 Desroches, Philip J., 3,695,070.
 Universal Testproducts, Inc.: See—
 Willing, Richard S., 3,634,752.
 Universal Water Corporation: See—
 Manjikian, Serop, 3,674,152.
 Unisil Oil Products Company: See—
 Hayes, John C., 3,654,182.
 Universitat Stuttgart: See—
 Mayer Rolf; and Reiting, Johann, 3,674,977.
 Universite de Sherbrooke: See—
 Deschenes, Pierre A.; and Villeret, Michel, 3,707,712.
 University College of North Wales: See—
 James, David W. F.; Spiller, David O.; and Coltman, Harvey D., 3,691,053.
 Last, James David; and Rowe, David N. E., 3,696,251.
 University College of Swansea: See—
 Haines, Derrick J., 3,639,064.
 University Court of the University of Glasgow: See—
 Jennings, Francis W.; Mulligan, William; Urquhart, George M.; McIntyre, William I.; and Jarrett, William F. H., 3,657,415.
 University Engineers, Inc.: See—
 Hashemi, Hadi T., 3,648,635.
 University of California, The Regents of the: See—
 Belzer, Folkert O.; and Truman, Chester W., 3,632,473.
 Ben-Yaakov, Shmuel; and Kaplan, Isaac R., 3,652,439.
 Brink, David L.; and Thomas, Jerome F., 3,639,111.
 Cassen, Benedict, 3,659,103.
 Chen, Pictaw; and Mehlschau, James J., 3,705,486.
 Gates, Lauren W.; and Hartwig, Michael J., 3,666,017.
 Justice, Mary Ann; and McCutchan, Joseph W., 3,666,508.
 Kolin, Alexander, 3,661,148.
 Lee, Kwan-Hua, 3,689,667.
 Luner, Stephen J.; and Kolin, Alexander, 3,664,939.
 O'Brien, Michael; Goddard, Wilson B.; and Williams, Rodney B., 3,683,702.
 Parkhurst, George R., 3,672,099.
 Pence, Roy J., 3,634,264.
 Pence, Roy J., 3,703,101.
 Svoboda, Antonin, 3,636,334.
 Vermuelen, Theodore; and Keaton, Michael John, 3,684,699.
 University of Connecticut: See—
 Mundkur, Balaji, 3,671,754.
 University of Delaware: See—
 Spinski, Victor, 3,674,484.
 University of Edinburgh, The: See—
 Neilson, James McEwan McIntyre, 3,654,916.
 University of Illinois Foundation: See—
 Bitzer, Donald L.; Bandy, Lyle E.; Johnson, Roger L.; and Skaperdas, Dominic O., 3,641,529.
 Ingerson, Paul G.; and Mayes, Paul E., 3,633,207.
 Ingerson, Paul G., 3,696,438.
 Ingerson, Paul G.; and Mayes, Paul E., 3,633,207.
 Shier, Wayne Thomas; Rinehart, Kenneth L., Jr.; and Gottlieb, David, 3,669,838.
 Slottow, Hiram Gene; and Petty, William Dooley, 3,654,388.
 Spiegelman, Solomon; and Haruna, Ichiro, 3,661,893.
 Spiegelman, Solomon; and Levisohn, Reuben, 3,689,475.
 University of Kentucky Research Foundation, The, mesne: See—
 Hurat, George S.; and Parks, James E., 3,662,105.
 Hurst, George S.; Thennard, Norbert; and Schneider, Karl A., 3,679,902.
 University of Michigan, The Regents of the: See—
 Roon, Robert J.; and Levenberg, Bruce, 3,655,516.
 University of Minnesota, The Regents of the: See—
 Blackshear, Perry L.; Forstrom, Richard J.; Dorman, Frank D.; and Nicoloff, Demetre M., 3,667,069.
 Dorenfeld, Adrian C.; Dick, Fernando Jorge; and Cooke, Strathmore R. B., 3,642,464.
 Ersek, Robert A., 3,657,744.
 Ersek, Robert A., 3,638,649.
 Haygreen, John G., 3,632,734.
 Iwasaki, Iwao, 3,656,935.
 Kreevoy, Maurice M.; Borch, Richard F.; and Hutchins, Jonathan E. C., 3,647,890.
 Lawver, James E., 3,672,579.
 Timm, Gerald W.; and Bradley, William E., 3,646,940.
 University of Mississippi, The: See—
 Huang, Chian L., 3,634,093.
 University of Nebraska, The: See—
 Shahani, Khem M.; Vakil, Jayantkumar R.; and Chandan, Ramesh Chandra, 3,689,640.
 University of North Carolina, The: See—
 Prange, Arthur J., Jr.; Wilson, Ian C.; and Lipton, Morris A., 3,689,669.
 University of Pennsylvania, The trustees of the: See—
 Sevag, Manasseh G., 3,689,646.
 University of Queensland, The: See—
 Stacey, Frank Donald; Rynn, John Munro William; and Little, Eric Cooper, 3,698,094.
 University of Strathclyde: See—
 Wood, Hamish C. S.; and Stuart, Alexander, 3,635,978.
 University of Sydney, The: See—
 Maguire, Mary H.; Gough, Geoffrey R.; and Michal, Frank, 3,678,162.
 University of Tennessee Research Corporation, The: See—
 Hertel, Kenneth L., 3,643,490.
 University of Tokyo, President: See—
 Kawashima, Nobuki, 3,678,274.
 University of Toledo, The: See—
 Roll, William D., 3,660,461.
 University of Toronto, The Governors of the: See—
 Ribner, Herbert S.; and Siddon, Thomas E., 3,696,673.
 University of Utah: See—
 Erdahl, Alan C.; and Evans, David C., 3,665,408.
 Kolff, Willem J.; and Jacobsen, Stephen C., 3,631,607.
 Kolff, Willem J., 3,641,591.
 Mouloupoulos, Spyridon, 3,671,979.
 Robins, Morris J.; and Currie, Bruce L., 3,705,147.
 Seader, Junior DeVere, 3,652,320.
 Wullstein, Leroy H., 3,677,702.
 Zwart, Hans H. J., 3,684,605.
 University Patents, Inc.: See—
 Hanson, Alden W., 3,635,849.
 Unkovsky, Boris Vladimirovich: See—
 Gridunov, Ivan Tikhonovich; Unkovsky, Boris Vladimirovich; Donskaya, Marina Maiorovna; Andreev, Leonid Vladimirovich; Korolkova, Galina Sergeevna; Ignatova, Ljudmila Alexandrovna; and Grigorian, Alexandr Grigorievich, 3,681,278.
 Unmuth, George Eugene; and Hopkins, Charles Howard, to Petrolite Corporation. Block polymer-wax blends. 3,632,540, 1-4-72, Cl. 260-27.
 Unnewehr, Lewis E.: See—
 Heintz, Walter K.; and Unnewehr, Lewis E., 3,700,943.
 Unno, Yoichi: See—
 Iida, Seishi; and Unno, Yoichi, 3,660,780.
 Takaoka, Takashi; Ohkoshi, Seiichi; and Unno, Yoichi, 3,649,124.
 Uno, Kazuo: See—
 Hoshino, Yutaka; Iwaki, Yoshikazu; Matsukawa, Koshiro; Nakada, Akira; Sato, Fumio; and Uno, Kazuo, 3,687,913.
 Uno, Keikichi: See—
 Iwakura, Yoshio; Uno, Keikichi; Kajiyama, Shigeru; Kituda, Yoshihiro; Kusushita, Takao; and Iijima, Kunio, 3,632,536.
 Uno, Kimio: See—
 Kato, Yoshiro; and Uno, Kimio, 3,643,846.
 Uno, Naoyuki; and Watanabe, Koichiro, to Asahi Kogaku Kogyo Kabushiki Kaisha. Exposure time controls for cameras. 3,657,982, 4-25-72, Cl. 95-53.
 Uno, Naoyuki, to Asahi Kogaku Kogyo Kabushiki Kaisha. Single lens reflex camera. 3,657,985, 4-25-72, Cl. 95-42.
 Uno, Naoyuki; and Tokutomi, Seiji, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera having a preliminary flash illumination for exposure determination. 3,680,457, 8-1-72, Cl. 95-42,000.
 Uno, Naoyuki; and Tokutomi, Seiji, to Asahi Kogaku Kogyo Kabushiki Kaisha. Photo flash intensity control with variable resistor in flash tube discharge circuit. 3,681,649, 8-1-72, Cl. 315-151,000.
 Uno, Naoyuki; and Tokutomi, Seiji, to Asahi Kogaku Kogyo Kabushiki Kaisha. Photo flash intensity control with preparatory flash controlling partial discharge of main capacitor. 3,684,917, 8-15-72, Cl. 315-151,000.
 Uno, Naoyuki; and Urano, Fumio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Lock device for shutter button in photographic camera. 3,688,670, 9-5-72, Cl. 95-31,0ac.
 Uno, Naoyuki; and Tokutomi, Seiji, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera operating with preparatory and synchronous light. 3,706,266, 12-19-72, Cl. 95-11,001.
 Uno, Taiko: See—
 Okamoto, Akio; and Uno, Taiko, 3,694,538.
 Uno, Tatujiro; and Mochizuki, Masatoshi, to Onoda Cement Company, Limited. Extra high early-strength Portland cement. 3,649,316, 3-14-72, Cl. 106-89.
 Uno, Tetsuo: See—
 Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Araki, Kazumi, 3,642,579.
 Noguchi, Yuichi; Nakajima, Junichi; Uno, Tetsuo; and Nakanishi, Toru, 3,684,655.
 Uno, Yoshihiro: See—
 Hirooka, Masaaki; Takeya, Kenji; Uno, Yoshihiro; Yamane, Akira; and Maruyama, Kunio, 3,692,754.
 Takeya, Kenji; Uno, Yoshihiro; and Yamane, Akira, 3,637,611.
 Takeya, Kenji; Uno, Yoshihiro; and Akira, Okayama, 3,657,201.
 Uno, Yoshihiro, to Matsushita Electric Industrial Co., Inc. Thin-window image pick-up and recording tube. 3,676,586, 7-11-72, Cl. 178-7,200.
 Unrue, John E., Jr.: See—

- Thomas, Edmond J.; and Unruh, John E., Jr., 3,632,905.
- Unruh, Cornelius C.: See—
Borden, Douglas G.; Unruh, Cornelius C.; and Merrill, Stewart H., 3,647,444.
- Unsworth, Robert George; and Bainbridge, Arnold, to English Electric Company Limited, The. Seal primarily for a turbine. 3,645,544, 2-29-72, Cl. 277-70.
- Unterberger, Robert M.: See—
Capowski, Robert S.; Unterberger, Robert M.; and Horsman, Larry R., 3,699,530.
- Unterberger, Robert R., to Chevron Research Company. Method of mapping ice thickness by F.M. electromagnetic radiation to indicate shallow thickness thereof. 3,634,753, 1-11-72, Cl. 324-6.
- Untermyer, Samuel, to National Nuclear Corporation. Method and apparatus for the nondestructive assay of bulk nuclear reactor fuel using 1 Kev to 1 Mev range neutrons. 3,636,353, 1-18-72, Cl. 250-83.1.
- Untermyer, Samuel, to National Nuclear Corporation. Nuclear fuel assay system. 3,707,631, 12-26-72, Cl. 250-71.50r.
- Unterstengofer, Gunther: See—
Stolzer, Claus; Hammann, Ingeborg; and Unterstengofer, Gunther, 3,705,927.
- Unterstenhofer, Leo: See—
Buchner, Anton; Lang, Hans; Lenz, Johann; Unterstenhofer, Leo; and Krieger, Wilhelm, 3,661,812.
- Triessmann, Hans-Georg; Unterstenhofer, Leo; and Berber, Heinz, 3,673,141.
- Unterstenhofer, Gunter: See—
Buchel, Karl Heinz; Hammann, Ingeborg; Unterstenhofer, Gunter; and Grewe, Ferdinand, 3,660,462.
- Buchel, Karl-Heinz; Draber, Wilfried; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,641,098.
- Draber, Wilfried; Buchel, Karl Heinz; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,636,112.
- Kiehne, Hartmut; Petersen, Siegfried; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,658,839.
- Lorenz, Walter; Unterstenhofer, Gunter; and Hammann, Ingeborg, 3,646,171.
- Schmidt, Karl-Julius; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,681,334.
- Schrader, Gerhard; Hammann, Ingeborg; Stendel, Wilhelm; Unterstenhofer, Gunter; and Homeyer, Bernhard, 3,652,740.
- Schrader, Gerhard; Lorenz, Walter; Unterstenhofer, Gunter; and Hammann, Ingeborg, 3,676,555.
- Schrader, Gerhard; Lorenz, Walter; Unterstenhofer, Gunter; and Hammann, Ingeborg, 3,689,604.
- Sirrenberg, Wilhelm; Hammann, Ingeborg; Behrenz, Wolfgang; Stendel, Wilhelm; and Unterstenhofer, Gunter, 3,652,742.
- Sirrenberg, Wilhelm; Unterstenhofer, Gunter; and Hammann, Ingeborg, 3,658,873.
- Stolzer, Claus; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,691,277.
- Stolzer, Claus; Hammann, Ingeborg; and Unterstenhofer, Gunter, 3,705,928.
- Zumach, Gerhard; Hammann, Ingeborg; Unterstenhofer, Gunter; and Wegler, Richard, 3,683,031.
- Unver, Altan A., to Atlas Chemical Industries, Inc. Crystallization of mannitol. 3,632,656, 1-4-72, Cl. 260-635.
- Unwenehr, Lewis E., to Ford Motor Company. Bridge circuit controller and process for supplying electrical energy to a variable reluctance motor. 3,697,839, 10-10-72, Cl. 318-138.000.
- Uozumi, Junzo; and Iwata, Junki, to Aison Kogyo Co., Ltd. Fuel injection apparatus. 3,661,129, 5-9-72, Cl. 123-119.
- Uozumi, Osamu: See—
Suzuki, Takami; and Uozumi, Osamu, 3,636,316.
- Uozumi, Sumio, to Toyota Jidosha Kogyo Kabushiki Kaisha. Oil pressure control device for fluid type automatic transmission. 3,641,845, 2-15-72, Cl. 74-867.
- Uozumi, Sumio; Sakai, Ichio; and Ohnuma, Kiyoshi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Hydraulic control system for an automatic transmission. 3,703,110, 11-21-72, Cl. 74-868.000.
- Uozumi, Yoshinobu: See—
Kashima, Hiroshi; Tomizuka, Katsushige; and Uozumi, Yoshinobu, 3,688,358.
- Up-Right, Inc.: See—
Claxton, Gerald L.; and Horn, Darrell C., 3,667,201.
- Horn, Darrell C., 3,688,482.
- Upadhyay, Pravin M., to Bell and Howell Company. Chain driven indexing Geneva mechanism. 3,675,503, 7-11-72, Cl. 74-436.000.
- Upadhyayula, Chainulu Lakshminarasimha; and Perlman, Berry Stuart, to RCA Corporation. Stabilized transferred electron amplifier. 3,686,578, 8-22-72, Cl. 330-5.000.
- Upatnieks, Juris, to Holotron Corporation. Method of imaging transparent objects with coherent light. 3,637,313, 1-25-72, Cl. 356-125.
- Upatnieks, Juris, to Battelle Development Corporation, mesne. Techniques of holographic data reduction utilizing an additional diffusing structure during reconstruction. 3,677,617, 7-18-72, Cl. 350-3.500.
- Upchurch, Thomas B., Jr. Ship mounted ice breaking system. 3,670,681, 6-20-72, Cl. 114-40.000.
- Updegraff, Robert E.: See—
D'Ausilio, Robert F.; and Updegraff, Robert E., 3,688,256.
- Updyke, Kenneth W.; and Grebner, William J., to Caterpillar Tractor Company. Hermetically sealed electrical fitting. 3,670,092, 6-13-72, Cl. 174-152.00r.
- Updyke, Lionel Joe, to FMC Corporation. Mercury recovery from chlorine cells utilizing mercury cathodes. 3,691,037, 9-12-72, Cl. 204-99.000.
- Upfold, Ambrose T.: See—
Jasinsky, Victor; and Upfold, Ambrose T., 3,667,408.
- Uphoff, Russel L., to Hoffel Instruments Incorporated. Cathode ray tube display system for ultrasonic and radar echo signals. 3,673,325, 6-27-72, Cl. 178-7.50d.
- Upjohn Company, The: See—
Anthony, William C.; and Ursprung, Joseph J., 3,637,697.
- Anthony, William Crawford, 3,644,364.
- Argoudelis, Alexander D.; Coats, John H.; and Reusser, Fritz, 3,639,581.
- Argoudelis, Alexander D.; and Coats, John H., 3,641,244.
- Argoudelis, Alexander D.; and Coats, John H., 3,671,647.
- Argoudelis, Alexander D.; Coats, John H.; and Pyke, Thomas R., 3,697,380.
- Ayer, Donald Emory; Babcock, John C.; and Campbell, J. Allan, 3,654,320.
- Babcock, John C.; and Campbell, J. Allan, 3,642,992.
- Babcock, John C.; and Beal, Philip F., III, 3,679,705.
- Bannister, Brian, 3,664,998.
- Bannister, Brian, 3,697,503.
- Bannister, Brian, 3,702,322.
- Bannister, Brian; and Magerlein, Barney J., 3,705,889.
- Beaton, John M.; Van Rheenen, Verlan H.; and Parikh, Jekishan R., 3,679,715.
- Bergy, Malcolm E.; and De Boer, Clarence, 3,642,984.
- Bergy, Malcolm E.; Hoeksema, Herman; Johnson, LeRoy E.; and Kinch, Donald G., 3,651,219.
- Bergy, Malcolm E.; Herr, Ross R.; and Mason, Donald Joseph, 3,679,787.
- Bergy, Malcolm E.; Hoeksema, Herman; and Johnson, Le Roy E., 3,699,223.
- Bergy, Malcom E.; and DeBoer, Clarence, 3,632,768.
- Bonk, Henry W.; Grieve, Robin L.; Nadeau, Herbert G.; and Palmer, Peter G., 3,644,168.
- Bundy, Gordon L.; and Nelson, Norman A., 3,689,521.
- Carleton, Peter S.; Farrissey, William J., Jr.; and Rose, James S., 3,701,756.
- Carleton, Peter S.; and Farrissey, William J., Jr., 3,703,520.
- Cheas, Samuel; and Cleveland, Bruce B., 3,703,468.
- Coats, John H.; Herr, Milton E.; and Herr, Ross R., 3,701,790.
- Doering, William Von E.; Farrissey, William J., Jr.; and Frulla, Floro F., 3,676,503.
- Doering, William Von E.; Farrissey, William J., Jr.; and Frulla, Floro F., 3,683,034.
- Dougan, Thomas P., 3,667,237.
- Eppstein, Samuel H., 3,651,231.
- Ericsson, Ronald J., 3,660,558.
- Farrissey, William J., Jr.; and Thompson, Edward J., 3,652,673.
- Fites, Larry L.; Mann, Kingsley M.; and Utrecht, Karl A., 3,702,132.
- Graham, Boyd E.; and Veldkamp, William, 3,632,761.
- Grieve, Robin L., 3,644,234.
- Hanka, Ladislav J.; and Martin, David G., 3,658,837.
- Hayash, Edward F., Jr.; Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., 3,673,128.
- Hendrix, John W., 3,639,600.
- Herr, Milton E.; Murray, Herbert C.; and Fonken, Gunther S., 3,649,453.
- Herr, Milton E.; Murray, Herbert C.; and Fonken, Gunther S., 3,706,801.
- Hester, Jackson B., Jr., 3,642,820.
- Hester, Jackson B., Jr., 3,642,821.
- Hester, Jackson B., Jr., 3,642,822.
- Hester, Jackson B., Jr., 3,646,055.
- Hester, Jackson B., Jr., 3,651,083.
- Hester, Jackson B., Jr., 3,652,588.
- Hester, Jackson B., Jr., 3,655,647.
- Hester, Jackson B., Jr., 3,674,777.
- Hester, Jackson B., Jr., 3,676,558.
- Hester, Jackson B., Jr., 3,681,343.
- Hester, Jackson B., Jr., 3,694,552.
- Hester, Jackson B., Jr., 3,701,782.
- Hester, Jackson Boling, Jr., 3,649,617.
- Huber, Joel E., 3,699,136.
- Hunter, James H., 3,651,044.
- Jahnke, Heinz K.; and Meyer, Heinz F., 3,697,557.
- Kagan, Fred; and Magerlein, Barney J., 3,689,474.
- Kaugars, Girts, 3,699,111.
- Keeslar, Clifford R., 3,647,105.
- Kelly, Robert C., 3,703,530.
- Kirk, William W., 3,703,404.
- Klettke, Walter G., 3,683,483.
- Lednicer, Daniel, 3,634,455.

- Lednicer, Daniel, 3,636,166.
- Lednicer, Daniel, 3,658,842.
- Lincoln, Frank H., Jr.; and Pike, John E., 3,651,116.
- Magerlein, Barney J., 3,636,043.
- Magerlein, Barney J., 3,681,321.
- Magerlein, Barney J., 3,681,324.
- Magerlein, Barney J., 3,682,884.
- Magerlein, Barney J., 3,692,767.
- Magerlein, Barney J., 3,704,289.
- McLaughlin, Alexander; and Rose, James S., 3,676,380.
- Meyer, Heinz F., 3,632,607.
- Moon, Malcolm W., 3,706,743.
- Morozowich, Walter; and Sinkula, Anthony A., 3,655,885.
- Morozowich, Walter, 3,657,327.
- Morozowich, Walter, 3,703,544.
- Nashu, Abdul-Munim; Ulrich, Henri; and Sayigh, Adnan A. R., 3,652,738.
- Nelson, Norman A.; and Jackson, Robert W., 3,634,419.
- Nelson, Norman A., 3,634,460.
- Nelson, Norman A.; and Jackson, Robert W., 3,642,800.
- Nelson, Norman A., 3,658,880.
- Nelson, Norman A.; and Vanden Berg, Gary E., 3,692,895.
- Parcells, Alan; and Dahlgren, Donald A., 3,687,833.
- Parikh, Jekishan R., 3,676,433.
- Parikh, Jekishan R.; and Breuer, Max E., 3,705,181.
- Perper, Robert J., 3,664,994.
- Pike, John E., 3,636,120.
- Pike, John E.; and Schneider, William P., 3,639,463.
- Porter, Lawrence C.; and Graves, Kenneth E., 3,702,747.
- Porter, Lawrence Christie, 3,655,311.
- Rao, Durvasula V.; Sayigh, Adnan A. R.; and Ulrich, Henri, 3,644,413.
- Rao, Durvasula V.; and Ulrich, Henri, 3,652,675.
- Rao, Durvasula V.; Sayigh, Adnan A. R.; and Ulrich, Henri, 3,676,436.
- Rao, Durvasula V.; Sayigh, Adnan A. R.; and Ulrich, Henri, 3,682,954.
- Rausch, Karl W., Jr.; and McClellan, Thomas R., 3,642,964.
- Recchia, Frank P.; and Ulrich, Henri, 3,676,497.
- Reymore, Harold E., Jr.; and Sayigh, Adnan A. R., 3,639,534.
- Rynbrandt, Ronald H.; and Skaletzky, Louis L., 3,647,804.
- Rynbrandt, Ronald H., 3,673,197.
- Saaty, Nabil Najib; and Jacobs, Richard Lee, 3,701,796.
- Saltzer, Joseph M., Sr.; Coult, Roger L.; and Lauterbach, Guido James, 3,632,967.
- Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,644,289.
- Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,652,504.
- Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,652,505.
- Sayigh, Adnan A. R.; Tucker, Benjamin W.; and Ulrich, Henri, 3,652,599.
- Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,657,199.
- Sayigh, Adnan A. R.; Stuber, Fred A.; and Ulrich, Henri, 3,699,080.
- Sayigh, Adnan A. R.; and Ulrich, Henri, 3,701,788.
- Sebek, Oldrich K.; and Hoeksema, Herman, 3,652,536.
- Sebek, Oldrich K.; and Meyer, Curtis E., 3,671,628.
- Sinkula, Anthony A., 3,661,891.
- Szmuzkovicz, Jacob, 3,632,813.
- Szmuzkovicz, Jacob, 3,651,232.
- Szmuzkovicz, Jacob, 3,652,559.
- Szmuzkovicz, Jacob, 3,654,308.
- Szmuzkovicz, Jacob; and Cerda, Elisabeth, 3,657,338.
- Szmuzkovicz, Jacob, 3,668,199.
- Szmuzkovicz, Jacob, 3,705,176.
- Thompson, Edward J., 3,697,570.
- Ulrich, Henri; and Tucker, Benjamin W., 3,637,810.
- Ulrich, Henri, 3,644,456.
- Ursprung, Joseph J.; and Anthony, William C., 3,639,667.
- Van Rheenen, Verlan H., 3,642,840.
- Van Rheenen, Verlan H., 3,661,942.
- Van Rheenen, Verlan H., 3,702,848.
- Visser, Jeronimo, 3,674,647.
- Visser, Jeronimo, 3,676,302.
- Werth, Peter J., Jr.; and Di Napoli, Anthony R., 3,637,788.
- Witz, Dennis F., 3,687,814.
- Wright, John B., 3,671,528.
- Yoon, Chong Y.; and Melson, Robert E., 3,644,103.
- Youngdale, Gilbert A., 3,659,021.
- Youngdale, Gilbert A.; and Ericsson, Ronald J., 3,659,022.
- Upjohn Company, The, mesne: See—
Mercer, Clive Kenneth; and Wilkin, George Desmond, 3,639,214.
- Upman, Karl Kristapovich: See—
Berzin, Gunard Valdemarovich; Kalnin, Arvid Yanovich; Sushkov, Alexandr Fedorovich; Skrupsky, Voldemar Petrovich; Ziemelis, Andris Eduardovich; Soloviev, Boris Fedorovich; Leenies, Karl Mikhailovich; Sovetin, Vladimir Kirilovich; Gulbis, Yan Karlovich; Dalinsh, Yan Yanovich; Priede, Bruno Andreovich; Upman, Karl Kristapovich; Muzhits, Vitold Iosifovich; Junga, Yan Petrovich; Krogzem, Ivar Arnoldovich; Greitan, Zigurd Boleslavovich; and Rotsen, Karl Arturovich, 3,646,687.
- Upmeier, Hartmut: See—
Hedrich, Winfried; and Upmeier, Hartmut, 3,657,974.
- Upmeier, Hartmut, to Windmoller & Holscher. Flattening and take-away device for blown tubing of plastics material. 3,632,265, 1-4-72, Cl. 18-14.
- Upmeier, Hartmut, to Windmoller & Holscher. Blowhead for making tubular plastics film. 3,647,339, 3-7-72, Cl. 425-326.
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- Upmeter, Hartmut. Turning device for deflecting moving flexible webs of paper of plastics film. 3,684,148, 8-15-72, Cl. 226-197.000.
- Upp, Donald L., to General Motors Corporation. Terminal board assembly for out-of-plane contacts. 3,679,870, 7-25-72, Cl. 219-445.000.
- Uphsur, Littleton; Franklin, Burton P.; Roane, Asa E.; and Wang, Kenneth Y., to Burlington Industries, Inc. Cloth doffing mechanism. 3,650,419, 3-21-72, Cl. 214-38.
- Upson, Lawrence L.: See—
Macarus, David P.; Upson, Lawrence L.; and Wood, Ronald T., 3,642,662.
- Upson, Lawrence L.; and Wood, Ronald T., to Air Products and Chemicals, Inc. Zeolite synthesis. 3,663,456, 5-16-72, Cl. 252-455.
- Upstone, Harlan R.: See—
Lutz, Leland H.; Heileman, Richard C.; Upstone, Harlan R.; Leonard, John M.; and Ottow, Melvin A., 3,639,950.
- Upstone, Harlan R.; and Paugh, Edward C., to International Telephone and Telegraph Corporation. Electrical connector interfacial seals. 3,678,441, 7-18-72, Cl. 339-94.00r.
- Upton, Douglas J. Fluid dispensing monitor. 3,699,315, 10-17-72, Cl. 235-92.0fe.
- Upton Industries, Inc.: See—
Kemper, Eugene L., 3,666,870.
- Ur, Amiram. Blood coagulation detection method and apparatus. 3,699,437, 10-17-72, Cl. 324-65.00r.
- UR Industries, Inc.: See—
Werner, Ben E.; and Setty, Richard D., 3,669,308.
- Ura, Shigeru: See—
Tajima, Shigeru; Kobayashi, Katsumi; Fukuhara, Hiroshi; Yamamoto, Hiroki; and Ura, Shigeru, 3,652,583.
- Uragami, Motoaki: See—
Sakurada, Ichiro; Okada, Toshio; and Uragami, Motoaki, 3,703,406.
- Urakabe, Rintaro: See—
Munakata, Hideaki; Watanabe, Kazuo; Osako, Akitada; and Urakabe, Rintaro, 3,660,460.
- Uralsky Zarod Tyazhelogo Mashinostroenia Imeni S. Ordzhonikidze: See—
Bykov, Vladimir Alexandrovich; Varaxin, Alexei Ivanovich; Geltenbein, Evgeny Jukhimovich; Kalinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Maximovich; Polyakov, Boris Nikolaevich; Sokolovsky, Oleg Petrovich; and Khimich, Georgy Lukich, 3,688,833.
- Uralsky Zavod Tyazhelogo Mashinostroenia Imeni S.: See—
Niskovskikh, Vitaly Maximovich; Dyshkant, Viktor Fedorovich; and Kuznetsov, Leonid Georgievich, 3,685,571.
- Uralsky Zavod Tyazhelogo Mashinostroenia Imeni S. Ordzhonikidze: See—
Mitsengendler, Iosif Salamonovich, 3,693,965.
- Uram, John R., Jr.: See—
Kinneman, William P., Jr.; and Uram, John R., Jr., 3,639,344.
- Uram, Stuart Z., to TRW Inc. Plastic pattern material for investment casting. 3,639,507, 2-1-72, Cl. 260-874.
- Uraneck, Carl A.: See—
Brown, James D.; and Uraneck, Carl A., 3,644,528.
- Brown, James D.; and Uraneck, Carl A., 3,669,798.
- Burleigh, John E.; and Uraneck, Carl A., 3,640,986.
- Smith, Richard L.; and Uraneck, Carl A., 3,660,362.
- Smith, Richard L.; and Uraneck, Carl A., 3,692,553.
- Uraneck, Carl A.; Trepka, William J.; and Brown, James D., to Phillips Petroleum Company. Preparation of organocalcium compounds. 3,642,922, 2-15-72, Cl. 260-665.
- Uraneck, Carl A.; and Burleigh, John E., to Phillips Petroleum Company. Agglomeration of fine rubber particles. 3,664,978, 5-23-72, Cl. 260-5.
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- Urano, Fumio: *See—*
Nomura, Katsuhiko; Watanabe, Koichiro; and Urano, Fumio, 3,650,191.
Uno, Naoyuki; and Urano, Fumio, 3,688,670.
- Urano, Fumio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Flash-synchronizing assembly for cameras. 3,659,508, 5-2-72, Cl. 95-11.5.
- Urasaki, Takanori: *See—*
Shima, Takeo; Urasaki, Takanori; and Oka, Isao, 3,637,910.
- Urata, Masanobu: *See—*
Terada, Yutaka; Urata, Masanobu; and Yamamoto, Kumeo, 3,645,954.
- Uraya, Toru; and Kageyama, Shusuke, to Kanegafuchi Boseki Kabushiki Kaisha. Apparatus for improving spinnability and property of composite filament. 3,659,989, 5-2-72, Cl. 425-131.
- Urayama, Kiyoshi: *See—*
Hosokawa, Masuo; Yokoyama, Tohei; and Urayama, Kiyoshi, 3,665,768.
- Urayama, Masaharu: *See—*
Yanou, Takao; and Urayama, Masaharu, 3,662,399.
- Urbach, Jacques; and Wiene, Harold W., to Uroptics International Incorporated. Technique for lathe grinding multifocal contact lenses. 3,662,040, 5-9-72, Cl. 264-1.
- Urbach, John C.: *See—*
Little, William S., Jr.; Lennon, John H.; and Urbach, John C., 3,689,267.
- Urbach, John C., to Xerox Corporation. Apparatus for forming a phase hologram on a deformable thermoplastic. 3,655,257, 4-11-72, Cl. 350-3.5.
- Urbahn, Fritz: *See—*
Weber, Klaus; and Urbahn, Fritz, 3,664,111.
- Urbain, Jean Louis. Automatic control device for the regeneration. 3,652,910, 3-28-72, Cl. 318-445.
- Urban, Era E. Seed planter with replaceable rotary trap chamber. 3,675,818, 7-11-72, Cl. 221-224.000.
- Urban, Friedrich: *See—*
Gierth, Volker; Gropper, Hans; Meitzner, Franc Georg; and Urban, Friedrich, 3,691,145.
Gropper, Hans; Meitzner, Franz; Ludwigshafen, Kinkel; Klaus, Rodenkirchen; and Urban, Friedrich, 3,635,936.
Gropper, Hans; Meitzner, Franz Georg; and Urban, Friedrich, 3,642,747.
Gropper, Hans; Stark, Kurt; Pfannmueller, Helmut; and Urban, Friedrich, 3,660,370.
Steigerwald, Klaus; Buechner, Oskar; Ball, Wolfgang; Pfannmueller, Helmut; and Urban, Friedrich, 3,654,253.
Steigerwald, Klaus; Buechner, Oskar; Urban, Friedrich; and Pfannmueller, Helmut, 3,657,211.
Steigerwald, Klaus; Buechner, Oskar; Urban, Friedrich; and Pfannmueller, Helmut, 3,657,212.
Steigerwald, Klaus; Buechner, Oskar; Urban, Friedrich; and Pfannmueller, Helmut, 3,702,845.
- Urban, Joe F. Locking transistor socket. 3,694,791, 9-26-72, Cl. 339-75.000.
- Urban, Norbert, to Volkswagenwerk Aktiengesellschaft. Tank. 3,666,139, 5-30-72, Cl. 220-85.005.
- Urban, Peter, to Universal Oil Products Company. Treating a water stream containing a water-soluble sulfite compound. 3,635,820, 1-18-72, Cl. 210-61.
- Urban, Peter, to Universal Oil Products Company. Process for scrubbing SO₂ from a gas stream. 3,644,087, 2-22-72, Cl. 23-25.
- Urban, Peter, to Universal Oil Products Company. Treatment of thiosulfate-containing aqueous solutions with carbon monoxide. 3,649,183, 3-14-72, Cl. 23-137.
- Urban, Peter; and Rosenwald, Robert H., to Universal Oil Products Company. Treatment of an aqueous waste stream from a hydrocarbon conversion process. 3,672,835, 6-27-72, Cl. 23-224.000.
- Urban, Peter, to Universal Oil Products Company. Process for treating two gas streams. 3,672,837, 6-27-72, Cl. 23-225.000.
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- Urbanowicz, Nikodem N. Medicament injector for nebulizer. 3,682,167, 8-8-72, Cl. 128-194.000.
- Urbas, John C. Apparatus and method for measuring steam and condensate flows. 3,678,747, 7-25-72, Cl. 73-194.00r.
- Urbis, Matthew C. Pharmaceutical preparation. 3,639,579, 2-1-72, Cl. 424-94.
- Urbis, Matthew C. Label identification system. 3,703,625, 11-21-72, Cl. 235-61.11c.
- Urbush, Richard L., to Andis Clipper Co. Self-charging appliance and stand. 3,659,180, 4-25-72, Cl. 320-2.
- Urbutis, Algimantas P., to Union Carbide Corporation. Method and apparatus for shirring delicate and fragile food casings. 3,689,960, 9-12-72, Cl. 17-51.000.
- Urbutis, Algimantas P.; Schenk, Bernard H.; Risany, Joseph J.; and Marbach, Walter V., to Union Carbide Corporation. Method of making shirred tubing. 3,704,483, 12-5-72, Cl. 17-49.000.
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- Urciola, John A.; and Marsh, Walter H. W., to Singer Company, The. Cam selector mechanisms for sewing machines. 3,699,910, 10-24-72, Cl. 112-158.00a.
- Urech, Jakob: *See—*
Fechtig, Bruno; Vischer, Ernst; Bickel, Hans; Bosshardt, Rolf; and Urech, Jakob, 3,697,515.
- Uren, Richard F.: *See—*
Woodside, Frank G.; and Uren, Richard F., 3,661,274.
Woodside, Frank G.; and Uren, Richard F., 3,669,281.
- Urethane Fabricators, Inc.: *See—*
Fleck, Paul H., 3,641,228.
- Urgesi, Federico; and Rother, Horst, to Chatillon Societa Anonima Italiana per le Fibre Tessili Artificiali S.p.A. Process and apparatus for continuously polycondensing or polymerizing monomers. 3,635,901, 1-18-72, Cl. 260-75.
- Uri, Norbert: *See—*
Betts, Albert Thomas; and Uri, Norbert, 3,644,275.
- Urifu, Tohoru: *See—*
Morikawa, Takashi; Higake, Sotomatsu; Sumi, Mitsugu; Urifu, Tohoru; and Yamamoto, Manabu, 3,696,605.
- Urish, Joseph M., to Westinghouse Electric Corporation. Multiple bridge differential voltage static inverter. 3,657,633, 4-18-72, Cl. 321-9.
- Urkevich, Michael P.: *See—*
Holub, Fred F.; Berger, Abe; Hardman, Bruce B.; and Urkevich, Michael P., 3,701,795.
- Urmeriyi, Laszlo. Method of and device for continuously measuring the thickness of electrically conductive moving sheet material and compensating said measurement for sheet temperature. 3,651,398, 3-21-72, Cl. 324-40.
- Uroptics International Incorporated: *See—*
Urbach, Jacques; and Wiene, Harold W., 3,662,040.
- Urquart, George M.: *See—*
Jennings, Francis W.; Mulligan, William; Urquart, George M.; McIntyre, William I.; and Jarrett, William F. H., 3,657,415.
- Urquhart, David Balfour; and Broadley, Robert. Drawing desk. 3,645,595, 2-29-72, Cl. 312-231.
- Urquhart, Robert J.: *See—*
Hancke, Peter J.; Judkovics, Monroe; and Urquhart, Robert J., 3,673,399.
- Urquhart, Thomas N.: *See—*
Koltuniak, Michael A.; and Urquhart, Thomas N., 3,641,419.
- Urry, Walbert H.; and Niu, Hsien Ying, to Wyandotte Chemicals Corporation. Process for the preparation of halogenated esters. 3,676,469, 7-11-72, Cl. 260-408.000.
- URS Corporation: *See—*
Orshansky, Elias, Jr., 3,695,146.
- Ursel, Ekhard, to Bosch, Robert, G.m.b.H. Thermoelectric pulse generator for motor vehicles. 3,707,633, 12-26-72, Cl. 307-106.000.
- Ursenbach, Francois, to Thomson-CSF. Periodic dispersive load for high frequency, high power use. 3,646,482, 2-29-72, Cl. 333-22.
- Ursic, Juan S.; and Rains, Cloral O., to Phillips Petroleum Company. Method and apparatus for blending materials. 3,638,916, 2-1-72, Cl. 259-4.
- Ursprung, Joseph J.: *See—*
Anthony, William C.; and Ursprung, Joseph J., 3,637,697.
- Ursprung, Joseph J.; and Anthony, William C., to Upjohn Company, The. 1,2-Dihydro-1-hydroxy-4-phenoxy-pyrimidines. 3,639,667, 2-1-72, Cl. 260-256.4.
- Urton, John T.; Glass, Max E.; Donahue, Stephen F.; and Carlson, Arthur, Jr., to Haver-Lockhart Laboratories, Incorporated. Injectable adjuvant, method for preparing same and compositions including such adjuvant. 3,639,577, 2-1-72, Cl. 424-88.
- Urushiyama, Nabuo: *See—*
Sakakura, Akiri; Taguchi, Satoru; Wada, Toshiya; Ueno, Kiyoshi; Yamamoto, Takaaki; and Urushiyama, Nabuo, 3,636,579.
- Urushiyama, Nobuo; Koshiishi, Hiromichi; and Akanuma, Kaneo, to Nippon Steel Corporation. Insulation coating for electrical steel sheet and method of application. 3,632,362, 1-4-72, Cl. 106-123.
- Urushiyama, Nobuo; Yoshio, Minoru; and Miyata, Takamitsu, to Nippon Steel Corporation. Method for annealing silicon steel strip for use as material of electric machinery. 3,653,984, 4-4-72, Cl. 148-113.
- Urvantsev, Leonid Mikhailovich: *See—*

- Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Besedin, Leonid Nikolaevich; Zhurenko, Anna Timofeevna; Urvantsev, Leonid Mikhailovich; Scherbakov, Jury Dmitrievich; Yasyukevich, Boris Ivanovich; Demin, Anatoly Anisimovich; and Peshkov, Evgeny Iktorovich, 3,654,756.
- Urwin, Peter T., to Electrohome Limited. Dual control mechanism. 3,697,921, 10-10-72, Cl. 338-131.000.
- Urwylter, Heinrich, to Geigy Chemical Corporation. Phenylbutazone-sodium-monoglycerate. 3,644,395, 2-22-72, Cl. 260-311.
- Ury, Michael G.: *See—*
Friedman, Moshe; and Ury, Michael G., 3,700,945.
- Urycki, Edward: *See—*
Jorgensen, Adam A.; Bentley, William; and Urycki, Edward, 3,676,747.
- Uryu, Sadayuki; and Ueda, Hiroshi, to Omron Tateisi Electronics Co. Traffic signal control system. 3,688,254, 8-29-72, Cl. 340-37.000.
- U.S. Amada, Ltd.: *See—*
Daniels, Dennis, 3,685,380.
Daniels, Dennis, 3,686,992.
- U.S. Atomic Energy Commission under the provisions of 42 U.S.C. 2182: *See—*
Ensley, Donald L., 3,673,872.
- U.S. Atomic Energy Commission under the provisions of 42 U.S.C. 2182: *See—*
Spragg, Hal R., 3,677,935.
- U.S. Cap & Closure, Inc.: *See—*
Carow, Robert N.; and Libit, Sidney M., 3,702,165.
- U.S. Divers Co.: *See—*
Fisher, John A., 3,698,425.
MacNiel, Douglas K., 3,649,979.
MacNiel, Douglas K., 3,693,446.
Morgan, Bevely Boone, 3,680,556.
- U.S. Dynamics, Inc.: *See—*
Blacbert, John E., 3,685,902.
Ross, Dan C., 3,672,769.
Ross, Dan C., 3,682,546.
- U.S. Dynamics Inc., mesne: *See—*
Hereford, John R., 3,679,305.
Silver, Julian, 3,690,762.
- U.S. Electronic Services Corporation: *See—*
Bunting, Henry E.; and Smith, Paul E., 3,641,254.
- U.S. Engineering Company, Inc.: *See—*
Karsnak, George D., 3,685,341.
- U.S. Industries, Inc.: *See—*
Boer, Elmer J.; and Van Huis, Robert L., 3,707,141.
Bruton, Billy R.; and Locke, Joe B., 3,650,288.
Bruton, Billy R., 3,650,506.
Burkholder, Harvey Z., 3,635,328.
Carrier, Louis F.; and Spanke, Edwin A., 3,675,976.
Locke, Joe B., 3,650,289.
Routh, Larry L.; and Contratto, James, 3,649,951.
Routh, Larry L.; and Contratto, James, 3,683,312.
Routh, Larry L.; and Contratto, James, 3,688,240.
Ueltz, Herbert F. G.; and Rzuclido, Alfred G., 3,637,360.
Van Huis, Robert L., 3,635,197.
Van Huis, Robert L., 3,650,158.
Van Huis, Robert L., 3,700,093.
Vance, Woodson H., 3,638,276.
Wald, Ernst A.; and Dodson, Joseph J., Jr., 3,706,205.
- U.S. Industries, Inc., mesne: *See—*
Nicholas, Arthur S.; and Kassouni, Sarkis M., 3,668,034.
- U.S. Natural Resources, Inc.: *See—*
Romick, Roscoe B.; and Strauss, John G., 3,700,120.
- U.S. Oil Company Incorporated: *See—*
Moretti, Peter A., 3,699,192.
- U.S. Philips Corporation: *See—*
Aagaard, Einar Andreas, 3,632,883.
Aagaard, Einar Andreas, 3,671,946.
Aagaard, Einar Andreas, 3,688,051.
Aagaard, Einar Andreas; Greekes, Johannes Anton; and Van Den Enden, Adrianus Wilhelmus Maria, 3,700,831.
Acket, Gerard Adriaan; and Vlaardingerbroek, Marinus Teunis, 3,648,185.
Akerstrom, Stig Hjalmar Johannes, 3,663,701.
Albers, Wouter; and Verberkt, Jacobus, 3,641,406.
Allaart, Houterman Jan, 3,701,988.
Allen, David Henry Odhams; Hall, Raymond Frederick; and Weston, George Frederick, 3,701,918.
Andersen, Bjorn, 3,660,603.
Anthonisz, Edwin Maximiliaan Constantijn, 3,639,750.
Arents, Johannes Wilhelmus Maria, 3,700,479.
Auphan, Michel Joseph, 3,693,625.
Ayel, Michel, 3,690,848.
Bach, Horst Werner, 3,648,023.
Backers, Franciscus Theodor; and Swaluw, Harry Leman, 3,663,746.
Barten, Piet Gerard Joseph, 3,639,795.
Barten, Piet Gerard Joseph, 3,678,316.
Bax, Johannes Cornelis, 3,662,654.
Beale, Julian Robert Anthony, 3,704,177.
- Beekmans, Nicolaas Marinus; Heijne, Leopold; and Vink, Adrianus Teunis, 3,654,112.
- Bergmans, Hendrik Jan, 3,667,000.
- Bertheau, Hermann, 3,659,099.
- Blatter, Johannes Reinier, 3,681,643.
- Blom, Dirk; Van Overbeek, Adrianus Johannes Wilhelmus Marie; and Zwijsen, Wilhelmus Antonius Joseph Marie, 3,678,404.
- Blucher, Reinhart, 3,668,636.
- Boekhorst, Antonius, 3,678,332.
- Boekhorst, Antonius; Janssen, Peter Johannes Hubertus; and Wolber, Jorg, 3,691,422.
- Bok, Johannes Gerardus; and De Graaf, Wilhelmus Polycarpus, 3,666,394.
- Bok, Johannes Gerardus, 3,677,153.
- Bonnerot, Jacques; and Paradan, Henri, 3,646,775.
- Bretschneider, Hermann; and Patlik, Alois, 3,632,894.
- Bretschneider, Hermann; Czozka, Viktor; and Rupp, Karl, 3,636,761.
- Brissot, Jean Jacques Lucien Emile, 3,663,180.
- Bryce, Clement, 3,660,292.
- Bulthuis, Kornelis; and Shannon, John Martin, 3,683,306.
- Buschow, Kurt Heinz Jurgen; and Westendorp, Frans Frederik, 3,701,695.
- Camerik, Ferdinand, 3,638,048.
- Cardozo, Benjamin Lopes; Admiraal, Daniel Johannes Hindericus; and Domburg, Gerrit, 3,659,195.
- Carl, Klaus Friedrich Leonhard; and Hardtl, Karl Heinz, 3,684,714.
- Chapron, Claude, 3,654,498.
- Clement, Gerard, 3,693,005.
- Cluwin, Johannes Meyer, 3,654,575.
- Cramwinckel, Hans, 3,643,218.
- Cregeen, Derek, 3,641,382.
- Daams, Jasper; and Wellinga, Kobus, 3,661,900.
- Daniels, Alexander, 3,678,992.
- Daniels, Alexander, 3,696,626.
- Daniels, Hendricus Petrus Cornelis; Van Der Ven, Theodorus Johannes; and Tate, Hans Gerard Karel, 3,670,394.
- Davies, Jenkin Eric; and Van Dijk, Jan, 3,658,850.
- De Boer, Eeltje, 3,676,657.
- De Brebisson, Michel, 3,677,838.
- De Haan, Hermanes Johannus Maria, 3,701,116.
- De Koe, Oscar Bernardus Philomenus Rikkert; and Verbeek, Robert Jacques, 3,699,260.
- De Lang, Hendrik, 3,648,055.
- De Lang, Hendrik, 3,659,948.
- De Lang, Hendrik, 3,666,371.
- de Lange, Willem; Duyfjes, Werner; and Maas, Willem, 3,679,797.
- De Neve, Gerard Marie Jules, 3,706,901.
- De Nobel, Dirk; and De Waal, Jan A. G., 3,698,941.
- De Ronde, Frans Christiaan, 3,646,479.
- DeRouw, Hubertus Johannes, 3,647,583.
- Desvignes, Francois; and Hunzinger, Jean Jacques, 3,638,019.
- Desvignes, Francois, 3,688,166.
- Deyris, Emile, 3,649,192.
- Deyris, Emile, 3,649,193.
- Dijkstra, Rinse; and Van Diepen, Cornelis Bernardus, 3,655,543.
- Dime, Adrianus Petrus; Asselman, George Albert Apolonia; and van der As, Herman Henricus Maria, 3,702,533.
- Dolman, Hendrik; and Tempel, Albert, 3,632,771.
- Donjon, Jacques; LePape, Auguste Raymond; and Marie, Gerard Joseph Marcel, 3,637,931.
- Donkersloot, Hendrik Cornelis; and van Vucht, Johannes Hendrikus Nicolaas, 3,681,151.
- Dubrave, Vladimir, 3,665,242.
- Ducamus, Jean Matial; and Fernandez, Claude-Jane, 3,676,709.
- Ebbinge, Willem, 3,638,090.
- Eckerlin, Peter, 3,649,831.
- Eibensteiner, Walter, 3,681,539.
- Engelsman, Jan Johannes; and Schoot, Cornelis Johannes, 3,642,590.
- Eschard, Gilbert, 3,673,449.
- Esdonk, Johannes Van; and Broers, Godefridus Henricus, 3,634,160.
- Esser, Leonard Jan Maria, 3,689,750.
- Eulenberg, Hannspeter; and Van Veldhoven, Gerardus Antonius Wilhelmus, 3,676,733.
- Eulenberg, Hannspeter, 3,697,801.
- Exner, Emil August, 3,696,268.
- Fokker, Herman, 3,656,295.
- Foster, Alan, 3,696,273.
- Franssen, Nico Valentinus, 3,685,609.
- Freeland, William, 3,674,151.
- Frentz, Herman; and Weijland, Bernard Hendrik, 3,649,387.
- Freudeberg, Jurgen; and Rudloff, Hermann, 3,701,982.
- Gerkema, Jan T., 3,705,397.
- Gibson, Rodney William, 3,671,887.

Glaise, Rene, 3,676,755.
 Glaise, Rene, 3,704,399.
 Goossens, Urbaan Paul Marguerite, 3,646,378.
 Goossens, Urbaan Paul Marguerite, 3,668,390.
 Goossens, Urbaan Paul Marguerite; Van Hootm, Willem Lode-
 wijk; and De Neve, Gerard Marie Jules, 3,707,645.
 Greefkes, Johannes Anton; de Koe, Oscar Bernardus
 Philomenus Rikkert; and Van den Enden, Adrianus Wilhel-
 mus Maria, 3,707,604.
 Groh, Gunther, 3,661,465.
 Groh, Gunther, 3,671,106.
 Groth, Rolf; Van Boort, Henricus Johannes Joseph; and De
 Neve, Gerard Marie Jules, 3,666,534.
 Guildford, Leslie Henry; and Mitchell, Richard Frank,
 3,660,663.
 Hagen, Siegfried Hendrik, 3,670,214.
 Hall, Raymond Frederick; and Mainard, Douglas Raymond,
 3,699,377.
 Handele, Martin Jacob; Kuipers, Johannes; and Wellinga,
 Kobus, 3,657,444.
 Hardt, Karl Heinz, 3,671,765.
 Hartl, Walter, 3,646,380.
 Harwood, Mervyn Geoffrey; and Schofield, John, 3,699,346.
 Heather, Alan Edgar, 3,633,102.
 Heetman, Alphonsus, 3,676,599.
 Heijne, Leopold; and Beekmans, Nicolaas Marinus, 3,658,479.
 Hellbarth, Heinz; Wendel, Wolfram; and Schulz, Alfred,
 3,646,449.
 Hepp, Gerard, 3,689,845.
 Hetterscheld, Wilhelmus Theodorus Hendrikus; and van Schaik,
 Gerrit Pieter Johannes, 3,689,797.
 Hobbs, Kenneth, 3,657,791.
 Hof, Jan Sjouke; and Otten, Gerardus, 3,654,472.
 Holster, Peter Leendert; Smulders, Hendricus Franciscus Gerar-
 dus; and Potters, Cornelis Johannes Theresia, 3,631,556.
 Horowitz, Alexandre, 3,631,659.
 Horowitz, Alexandre; and Beusink, Bernard Joseph, 3,685,265.
 Hovius, Eerenst Frans, 3,671,755.
 Hugenholtz, Eduard Herman, 3,632,890.
 Hugenholtz, Eduard Herman, 3,688,212.
 Hughes, John Barry, 3,704,456.
 Huyben, Bernardus Johannes Maria; Van Barneveld, Evert Jan;
 and Van De Steen, Louwrens Marinus, 3,656,010.
 Jacobs, Cornelis Adrianus Joannes; Beijer, Louis Benjamin; and
 Driessen, Antonius Jozephus Gerardus Cornelis, 3,639,801.
 Jacques, Jean-Marie; and Benjada, Maurice, 3,679,935.
 James, Pierre Lucien Jules, 3,652,077.
 Jansen, Constant Gijsbertus Johannes; Compaan, Klaas; and
 Venema, Albertus, 3,688,151.
 Janson, Jan, 3,644,765.
 Janssen, Casper Johannes Gerardus Ferdinand; Jonker, Hendrik;
 and Thijssens, Theodorus Petrus Gerardus Wilhelm,
 3,634,168.
 Janssen, Frits Jacques, 3,650,264.
 Janssen, Peter Johannes Gubertus, 3,702,414.
 Janssen, Peter Johannes Hubertus, 3,663,747.
 Janssen, Peter Johannes Hubertus, 3,673,321.
 Janssen, Peter Johannes Hubertus; and Ong, Kian Kie,
 3,702,442.
 Janssen, Peter Johannes Michiel, 3,638,057.
 Kalis, Horst, 3,648,138.
 Kasperkovitz, Wolfdietrich Georg, 3,668,555.
 Kasperkovitz, Wolfdietrich Georg, 3,676,701.
 Kay, Malcolm John, 3,646,272.
 Kitson, Joshua Wilson, 3,632,011.
 Kitson, Joshua Wilson, 3,632,012.
 Kitson, Joshua Wilson, 3,707,243.
 Klerk, Jacob; and Stijntjes, Theodorus Gerhardus Wilhelmus,
 3,645,898.
 Klostermann, Frits Theodoor; Jentjens, Andreas Petrus
 Theodorus Hermanus; and Bouwer, Adrianus Gerardus,
 3,688,655.
 Knauff, Karl-Georg, 3,681,018.
 Knippenberg, Wilhelmus Franciscus; Verspui, Gerrit; and
 Basart, Johan Charles Marie, 3,632,405.
 Knippenberg, Wilhelmus Franciscus; and Verspui, Gerrit,
 3,678,568.
 Koelmans, Hein, 3,638,027.
 Kraakman, Hillebrand Johannes Josephus, 3,631,766.
 Kraakman, Hillebrand Johannes Josephus, 3,643,547.
 Kraakman, Hillebrand Johannes Josephus, 3,702,909.
 Kuhn, Klaus, 3,707,596.
 Kuiper, Josephus Theodorus Maria, 3,701,114.
 Kuiken, Hendrik, 3,701,287.
 Kuiper, Wilhelmus Gerardus; and Klaassen, Anne, 3,671,880.
 La Grouw, Coenraad Maria; 3,663,246.
 La Grouw, Coenraad Maria; and Gie, Ong Tjing, 3,698,921.
 Lambeck, Adriaan Jan Jurriaan; Laa, Friedrich; and Rupp, Karl,
 3,653,607.
 Le Duc, Jean-Marc, 3,687,743.
 Lee, David Belgrave, 3,649,395.

Lesare, Paul, 3,697,684.
 Leuthold, Peter, 3,665,314.
 Lorenz, Rainer, 3,640,749.
 Lundin, Seth Johan Roland; and Bjorkman, Bengt Harry,
 3,696,207.
 Majers, Andries Cornelis; and Ketel, Jacob, 3,691,436.
 Marimes, Johannes Antonius, 3,685,883.
 Marinissen, Jan Philippus Cornelis; and Arnold, Frederik Alex-
 ander Nicolaas Gerardus, 3,662,946.
 Masselink, Annegien; Bakker, Martinus Antonius Maria; and
 Visser, Bauke, 3,707,358.
 Meier, Nicolaas Frederik, 3,652,966.
 Meuleman, Johannes, 3,646,407.
 Meuleman, Johannes, 3,646,410.
 Meuleman, Johannes; and Aussant, Michel, 3,697,825.
 Meulemans, Charles Cornelis Eduard; and Van Der Tas,
 Johannes Cornelis, 3,685,947.
 Mitchell, Richard Frank, 3,671,784.
 Moerkens, Jozef Cornelis; and Porro, Giovanni, 3,657,597.
 Moerkens, Jozef Cornelis, 3,679,936.
 Moggre, Anthonie Jannis, 3,673,458.
 Moulding, Kenneth William, 3,697,784.
 Murphy, Thomas, 3,666,547.
 Neelen, Gregorius Theodorus Maria, 3,667,348.
 Neinhuis, Rijkent Jan, 3,648,129.
 Neuhaus, Hans Wilhelm; and Verweel, Jan, 3,702,993.
 Niepshuis, Rijkent Jan, 3,643,139.
 Niepshuis, Rijkent Jan, 3,649,885.
 Nijhof, Engbert Bernard Gerard; and Rosink, Wilhelmus Bernar-
 dus, 3,707,660.
 Notelteirs, Victor Rosalie, 3,673,454.
 Notelteirs, Victor Rosalie; and Janssen, Eduard Josef
 Philomena, 3,678,319.
 Oomen, Joris Jan Cornelis; and Visser, Jan Adrianus, 3,644,150.
 Otten, Walter; Postma, Gosse Jan; Rietveld, Jan Joost; and
 Wolber, Jorg, 3,648,099.
 Peloschek, Hans Peter; and Perduijn, David Jacob, 3,671,436.
 Perge, Andreas, 3,632,116.
 Perihou, Jean Robert; and Auphan, Michel Joseph, 3,670,715.
 Pless, Uwe, 3,671,437.
 Potters, Cornelis Johannes Theresia; Reinhoudt, Jacobus Pieter;
 and Smulders, Hendricus Franciscus Gerardus, 3,643,273.
 Prast, Gijsbert; and Rauwerdink, Hendrik Jan, 3,688,512.
 Prast, Gijsbert; and Hargreaves, Clifford McDonald, 3,704,600.
 Pratt, Ronald George; Willis, William; and Singleton, John
 Stephenson, 3,688,223.
 Prijn, Cornelis; and Benedetti, Franco, 3,673,453.
 Reede, Thomas Pieter, 3,673,566.
 Richard, Georges A. L.; Cognet, Jean-Marie F.; Heullant, Jean;
 and Vallier, Jean-Pierre, 3,662,067.
 Rietdijk, Johan Adriaan, 3,638,441.
 Rietveld, Andreas Fredericus, 3,646,349.
 Rijnders, Johannes, 3,646,386.
 Robinson, David Phythian, 3,650,019.
 Rooijen, Jan Van, 3,639,879.
 Roos, Jan, 3,654,402.
 Roos, Jan; and Boone, Salomon, 3,683,129.
 Roseboom, Antonius Hendrikus Cornelis, 3,632,061.
 Roza, Engel; Benning, Herman J.G.M.; and Lommers,
 Anthonius J.J.C.L., 3,665,344.
 Rudolph, Joannes Gerard; and Moesker, Gerard, 3,707,655.
 Ruegg, Heinz Walter, 3,667,006.
 Rumpf, Paul, 3,660,813.
 Sainte-Beuve, Philippe, 3,699,446.
 Sangster, Frederik L. J., 3,666,972.
 Sangster, Frederik Leonard Johan, 3,671,771.
 Schagen, Pieter, 3,665,184.
 Schaikwijk, Jan, 3,648,202.
 Schmidt, Wolfgang, 3,678,327.
 Schmitz, Albert; Mulder, Cornelis; and Slob, Arie, 3,702,428.
 Schöenmakers, Johannes Joseph Martinus, 3,673,347.
 Schouten, Gerrit Hilbertus; Bohlmeijer, Nicolaas; Van Der
 Steeg, Hendrik; and Van der Maarel, Marinus Cornelis,
 3,701,981.
 Schroder, Johann; and Van Witteveen, Roland Anton Johan
 Otto, 3,651,637.
 Schroder, Johann; Van Beukering, Henricus Cornelis Johannes;
 and Van Witteveen, Roland Anton Johan Otto, 3,651,797.
 Schroder, Johann, 3,662,739.
 Schroder, Johann, 3,662,740.
 Schroder, Johann, 3,697,239.
 Schroder, Jurgin; Wichmann, Onno; and Zuchner, Werner,
 3,648,024.
 Schroder, Jurgin; and Nussbaum, Hans Georg, 3,648,272.
 Schuil, Roelof Egbert, 3,706,666.
 Sharp, Denis, 3,661,428.
 Sharp, Denis, 3,689,778.
 Sharp, Denis, 3,702,407.
 Sharp, Denis, 3,707,310.
 Sharp, Denis, 3,707,311.
 Sharpless, Graham Trevor, 3,686,661.

Siebert, Hans Joachim; and Neelen, Gregorius Theodorus Maria,
 3,667,349.
 Sluiter, Robert Joannes; and Van Gerwen, Petrus Josephus,
 3,701,852.
 Sluys, Robert Nestor Joseph; Wessels, Johannes Hendrik; and
 Van Den Bussche, Willem, 3,700,798.
 Smeulers, Wouter, 3,706,847.
 Speekman, Bernardus Willebrordus, 3,646,322.
 Spiessens, Raymond Francois; Schuringa, Leffert; and Ver-
 boven, Ghislain Felix Alfons Arthur, 3,646,308.
 Staas, Frans Adrianus, 3,678,704.
 Steenmeijer, Jan Paul, 3,644,854.
 Steigman, Peter Edward; Badcock, Frank Robert; and Lamb,
 David Robert, 3,686,544.
 Steinmetz, Anthony; and DeBoer, Douwe Mindert, 3,663,777.
 Tan, Sing Liong, 3,659,918.
 Tan, Sing Liong; Bartels, Mathijs Willem; and Degger, Walter
 Wilhelmus Johannus, 3,665,597.
 Tan, Sing Liong; Bartels, Mathijs Willem; and Degger, Walter
 Wilhelmus, 3,688,394.
 Tan, Sing Liong, 3,689,690.
 Te Velde, Ties Siebolt; and Van Heusden, Sybrandus,
 3,679,496.
 Tharmaratnam, Poothathamby, 3,665,330.
 Thees, Richard, 3,675,059.
 Theunissen, Matthias Johannes Joseph; and Verkuiljen, Wilhel-
 mus Henricus Cornelis Gerardus, 3,677,846.
 Thibaut, Yves Albert Daniel, 3,689,815.
 Tietjens, Eduard Willem, 3,636,628.
 Tisi, Felix Daniel; and De Jager, Frank, 3,654,564.
 Tolksdorf, Wolfgang, 3,677,712.
 Trap, Hendrikus Johan Lodewijk, 3,663,247.
 Tulp, Theodorus Joannes; Appels, Johannes Arnoldus; and
 Kooi, Else, 3,678,347.
 Underhill, Michael James, 3,651,422.
 Van Alphen, Gerard Herman; Jongenelen, John; and Van Werd,
 Johannes Hendricus Franciscus, 3,646,582.
 Van Beek, Ferdinandus Maria Josephus, 3,706,900.
 van de Water, Johannes Theodorus; Van Hout, Joannes Joseph;
 and Baelde, Arie, 3,646,409.
 Van Den Avoort, Pieter Marinus; and Terpstra, Lieuwie,
 3,688,024.
 Van Den Plassche, Rudy Johan, 3,671,877.
 Van Den Plassche, Rudy Johan, 3,686,580.
 van den Plassche, Rudy Johan, 3,697,882.
 Van Der Heide, Hendrik, 3,638,151.
 Van der Heide, Martin Clemens; and Groothoff, Adriaan Jacob,
 3,688,231.
 Van Der Houwen, Derk, 3,701,947.
 Van der Kerk, Gerrit Johann Meine; and Tempel, Albert,
 3,641,078.
 Van Der Linden, Peter Martinus Cornelis; and Van Gaasbeek,
 Hans Hubert Hakkenberg, 3,662,305.
 van der Maaden, Johan, 3,643,842.
 Van Der Woerd, Albertus Cornelis, 3,675,529.
 Van Dijk, Hendrikus Josephus Antonius, 3,640,807.
 Van Dijk, Nicolaas Antonie, 3,656,240.
 Van Esdonk, Johannes; and Janssen, Joannes Franciscus Maria,
 3,665,238.
 Van Esdonk, Johannes, 3,689,794.
 Van Essen, Hendrik Arie; and Slob, Arie, 3,688,128.
 Van Essen, Hendrik Arie, 3,699,538.
 Van Gerwen, Petrus Josephus, 3,646,447.
 Van Hes, Roelof, 3,658,960.
 Van Hirtum, Martinus Johannes; and Lenders, Wilhelmus
 Leonard Louis, 3,634,164.
 Van Houtenlaan, Jan Carel, 3,683,200.
 Van Iperen, Bernardus Bastiaan; and Tjassens, Hindrik,
 3,701,049.
 van Melis, Theodorus Henricus Carolus; Naastepad, Pieter Aart;
 and de Vos, Krijn Jacobus, 3,660,175.
 Van Moerselaar, Rudolf; and Van Houtenlaan, Weesp,
 3,700,703.
 Van Oosterhout, Gerard Willem; Lemmen, Hendrikus Johannes;
 and Klomp, Cornelis Johannes, 3,679,476.
 Van Overbeek, Adrianus Johannes Wilhelmus Marie; and Krul,
 Leendert Gerardus, 3,647,957.
 Van Roosmalen, Johannes Hendrikus Theodorus, 3,659,135.
 Van Westering, Peter Jan, 3,647,297.
 Velzel, Christiaan Hendrik Frans, 3,676,006.
 Velzel, Christiaan Hendrik Frans, 3,653,736.
 Verhoeff, Jacobus, 3,675,202.
 Verhoeven, Leonardus Adrianus Johannes; and Dollekamp,
 Hendrikus, 3,646,458.
 Verster, Nico Frederick, 3,689,847.
 Venstraalen, Marie Marcel Arnold Antoine Ghislain; and Reyn-
 ders, John Richard, 3,646,252.
 Viers, Jean-Charles; and Jaure, Robert Pierre, 3,702,212.
 Von Der Pfordten, Dietrich, 3,701,973.
 Von Marinelli, Silvio M.N.K.W.F.; Vree, Jules Herman; and
 Verboom, Joannes B., 3,696,512.

Wanmaker, Willem Lambertus; and Tak, Marinus Gerardus An-
 toine, 3,636,352.
 Wanmaker, Willem Lambertus; Vrugt, Johannes Wilhelmus Ter;
 and De Bres, Johannes Guilielmus Cornelis Maria, 3,647,708.
 Weitzsch, Fritz; and Walther, Erich Eduard, 3,688,019.
 Weitzsch, Fritz, 3,689,689.
 Wensink, Bernardus Leonardus; and Cense, Adriaan, 3,666,995.
 Wensink, Bernardus Leonardus; and Cense, Adriaan, 3,676,714.
 Werner, Helmut Wilhelm Werner, 3,678,267.
 Wesselink, Gustaaf Adolf; Holmes, Thomas; de Kock, Arie Jan
 Rudolf; and Goorissen, Jan, 3,678,315.
 Westendorp, Frans Frederik; and Zijlstra, Hinne, 3,647,574.
 Westendorp, Frans Frederik; and Rijnbeek, Antonius Gregorius,
 3,663,317.
 Wijsboom, Dan Bernardus, 3,662,249.
 Willems, Leonardus Franciscus, 3,676,596.
 Willemsen, Petrus Johannes Marie, 3,649,864.
 Winkel, Jan Te, 3,684,971.
 Winkel, Jan Te, 3,688,209.
 Wouterus Bom, Johannes Gerardus, 3,638,049.
 Yperman, Jean Michel Baudry Ghislain; and Belhomme,
 Charles, 3,674,713.
 Zaalberg, Willem, 3,652,851.
 Zegers, Leo Eduard; and Snijders, Wilfred Andre Maria,
 3,671,864.
 Zuurveen, Frans, 3,636,626.
 Zuurveen, Frans, 3,656,235.
 Zwiap, Cornelis Willem; and Van Steen, Bernardus Ignatius
 Maria, 3,679,849.
 Zwilsen, Wilhelmus Antonius Joseph Marie, 3,639,859.
 U.S. Philips Corporation, mesne: See—
 Andre, Elie; and Le Duc, Jean-Marc, 3,632,431.
 Barten, Piet Gerard Joseph, 3,678,320.
 Bottcher, Karl-Heinz, 3,638,305.
 De Jager, Frank, 3,649,914.
 De Ruig, Willem Gerbrecht; Molenaar, Arian; and Jonker, Hen-
 drik, 3,637,386.
 DeLang, Hendrik, 3,635,552.
 Dennewitz, Rolf Dieter; Exner, Emil A.; and Zierau, Henning,
 3,662,213.
 Haes, Eduard Johannes; and van der Maat, Adrianus Theodorus,
 3,634,559.
 Jank, Reinhard, 3,679,921.
 Jonker, Hendrik; Janssen, Casper Johannes Gerardus Ferdinand;
 and Postma, Lambertus, 3,674,485.
 Jonsson, Ragnar Georg, 3,638,088.
 Keizer, Volkert Govert; and Zwagemakers, Johannes Maria An-
 tonius, 3,632,780.
 Knippenberg, Wilhelmus Franciscus; and Verspui, Gerrit,
 3,634,149.
 Kooi, Else, 3,649,886.
 Kooi, Else, 3,676,921.
 Kuiper, Adrianus, 3,681,642.
 Limbough, Pol Jean, 3,704,163.
 Loned, Aldo, 3,690,000.
 Nidetzky, Leopold, 3,650,849.
 Poddig, Dieter; and Hoffmann, Hans, 3,652,989.
 Roos, Jan, 3,674,629.
 Scholes, Geoffrey William; and Jones, Anthony Ronald,
 3,689,996.
 Sharp, Denis, 3,663,068.
 Te Velde, Ties Siebolt, 3,649,354.
 Teale, Richard William, 3,681,602.
 Thire, Jacques, 3,635,773.
 Turnbull, Andrew Alfred, 3,632,442.
 Van Den Bos, Bernardus Gerhardus; Meltzer, Jacques; and Han-
 dele, Martin Jacob, 3,661,926.
 Wiarda, Robertus Pieter; and Van Dorn, Willem, 3,665,331.
 Wrona, Carl; and Heylands, Wilhelmus Franciscus Aloysius,
 3,653,601.
 Zegers, Leo Eduard; Kuilman, Jan; and Snijders, Wilfred Andre
 Maria, 3,666,889.
 Zuurveen, Frans, 3,639,979.
 U.S. Plywood Champion-Papers Inc.: See—
 Pape, Wayne; and Hall, Doyle J., 3,695,225.
 U.S. Plywood-Champion Papers Inc.: See—
 Bailey, Carroll F.; and Oetgen, W. Richard, 3,645,666.
 Carmellini, Andrew E.; and James, Robert E., 3,681,165.
 Gaylord, Norman G., 3,645,939.
 Hartman, Seymour; and Sullivan, Francis F., 3,652,360.
 Hsu, Tsong-Han, 3,654,200.
 Inmon, Aubrey W.; and Sanderford, Moses Vincent, 3,688,458.
 Lee, Hong Man, 3,666,593.
 Lee, Hong Man, 3,696,958.
 Oetgen, Walter Richard; and Cooley, James, 3,681,274.
 Powell, Mabrin P.; and Nauman, Mark R., 3,686,015.
 Southworth, Ronald W., 3,680,692.
 Trauschke, William F., 3,631,970.
 Vassiliades, Anthony E.; Nauman, Edward F.; and Shroff,
 Shrenik, 3,669,899.
 U.S. Reduction Co.: See—

- Langston, Benny, 3,694,190.
 Salmon, David; Wierzbicki, Edward J.; Langston, Benny; and Beegle, Donald W., 3,703,340.
 U.S. Textile Machine Company: *See—*
 Csurgay, Gregory, 3,689,716.
 Pfenningsberg, Josef, 3,672,145.
 USAG S.p.A.: *See—*
 Simonetta, Enrico, 3,677,102.
 Usagawa, Koji, to Victor Company of Japan, Limited. Automatic sensitivity control circuit for image pickup camera. 3,652,792, 3-28-72, Cl. 178-7.2.
 Usala, Hugo R., to Du Pont de Nemours, E. I., and Company. Adhesive composition and laminating process. 3,705,076, 12-5-72, Cl. 161-189.000.
 Usami, Hikoo, to Tomy Kogyo Co., Ltd. Amusement device. 3,698,130, 10-17-72, Cl. 46-206.000.
 Usami, Kunihiko: *See—*
 Takahashi, Tadanobu; and Usami, Kunihiko, 3,669,519.
 Usami, Masakatsu: *See—*
 Yamawaki, Takeshi; Usami, Masakatsu; Suzuki, Tetsumi; and Uematsu, Takao, 3,674,759.
 Usami, Seiji; Nishimura, Kotaro; Koyama, Takeo; and Fukushi, Saburo, to Toa Nenryo Kogyo Kabushiki Kaisha. Method of recovering cobalt or cobalt plus Group II metal catalyst in oxo synthesis process. 3,634,291, 1-11-72, Cl. 252-414.
 Usami, Susumo: *See—*
 Shimizu, Tetsuji; Sumida, Hajime; Ueno, Sinichi; Usami, Susumo; and Tatamatu, Sinzi, 3,634,652.
 Usami, Tomomasa: *See—*
 Asano, Toshiaki; Uenaka, Kazushige; and Usami, Tomomasa, 3,652,278.
 Usamoto, Teruyoshi; and Okita, Taisuke, to Sumitomo Chemical Company Limited. Co-curable composition using peroxides and maleimides as crosslinking agents. 3,641,215, 2-8-72, Cl. 260-897.
 Usamoto, Teruyoshi; Yokota, Masao; and Kondo, Tamotu, to Sumitomo Chemical Company, Limited. Method for preparing adhesion-improved ethylene-propylene rubber composition. 3,651,176, 3-21-72, Cl. 260-897.
 Usamoto, Teruyoshi; Yokota, Masao; and Kondo, Tamotu, to Sumitomo Chemical Company, Limited. Method for preparing colored rubber laminate. 3,669,828, 6-13-72, Cl. 161-252.000.
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 Usen, Norman, to Union Carbide Corporation. Aerosol actuator assembly having an actuator bottom that is rotatable between dispensing and non-dispensing positions. 3,632,024, 1-4-72, Cl. 222-402.11.
 Ushakov, Boris Konstantinovich: *See—*
 Shepelyakovskiy, Konstantin Zakharovich; Ushakov, Boris Konstantinovich; Devyatkin, Vasily Petrovich; Devyatkov, Vladimir Fedorovich; Shakhov, Vasily Ivanovich; Kachkanov, Nikolai Nikolaevich; Gazarov, Leon Alexandrovich; Pchelkina, Valentina Mikhailovna; Drubnov, Mikhail Alexandrovich; and Vologdin, Vladislav Valentinovich, 3,682,519.
 Usher, Scott: *See—*
 Williams, William D., Jr.; and Usher, Scott, 3,667,358.
 Ushimaru, Yoshuke; Nakajima, Yosuke; Sugiyama, Mitsunori; Nishio, Fumihiko; and Kobayashi, Shigeru, to Fuji Photo Film Co., Ltd. Silver halide emulsion sensitized with pentathiepane. 3,656,955, 4-18-72, Cl. 96-107.
 Ushimaru, Yutaka: *See—*
 Ichiki, Minoru; and Ushimaru, Yutaka, 3,702,286.
 Ushiyama, Keichi: *See—*
 Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keichi; and Shinoda, Hirotaka, 3,697,577.
 Ushiyama, Keiichi: *See—*
 Irikura, Tsutomu; Nishino, Keigo; Suzue, Seigo; Ushiyama, Keiichi; Shinoda, Hirotaka; and Hasegawa, Yoshinori, 3,679,730.
 Ushiyama, Rintaro; Sugino, Osakazu; Sato, Shui; Sakamoto, Eiichi; Yamada, Hiroshi; and Kikuchi, Shoji, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide photographic material. 3,706,563, 12-19-72, Cl. 96-84.00a.
 Ushkow, David Elliot: *See—*
 Ushkow, Meyer; and Ushkow, David Elliot, 3,662,463.
 Ushkow, Meyer; and Ushkow, David Elliot. Spoon. 3,662,463, 5-16-72, Cl. 30-326.
 Usinor: *See—*
 Tavernier, Georges L. P.; and Dubois, Robert L., 3,693,779.
 Uskach, Alexandr Grigorievich: *See—*
 Kuznetsov, Rostislav Sergeevich; Uskach, Alexandr Grigorievich; and Kostikov, Vladimir Grigorievich, 3,632,931.
 Uskokovic, Milan Radoje: *See—*
 Grethe, Guenter; and Uskokovic, Milan Radoje, 3,666,763.
 Gutzwiller, Juerg Albert Walter; and Uskokovic, Milan Radoje, 3,663,554.
 Uskokovic, Milan Radoje, to Hoffmann-La Roche Inc. 6-Halo-4-oxa-steroids. 3,646,068, 2-29-72, Cl. 260-343.2.
 Uskokovic, Milan Radoje, to Hoffmann-La Roche Inc. Preparation of desa-9-en-5-one steroids. 3,666,775, 5-30-72, Cl. 260-338.000.
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 USM Corporation: *See—*
 Annis, Rupert E., Jr.; and Kyrtis, William T., 3,674,401.
 Appleton, Daniel, 3,670,070.
 Babson, Edward S., 3,645,118.
 Babson, Edward S., 3,699,597.
 Barker, Joseph; and Hanson, Raymond, 3,680,527.
 Barker, Joseph, 3,684,420.
 Boot, Herbert W.; and Parr, Leslie R., 3,704,604.
 Brown, Colin V., 3,657,754.
 Carlson, John H.; Mansfield, Donald L.; and Robinson, Hugh A., 3,641,706.
 Carpenter, Austin T.; Garrington, Roy; and Harrison, Keith W., 3,658,939.
 Chandler, Edmond A.; Pearsall, Ralph E.; Winslow, Kenelm W.; and Yarrison, Walter W., 3,658,632.
 Creffield, David F., 3,656,380.
 Creffield, David F., 3,672,250.
 Enock, Clive R., 3,658,230.
 Ettinger, Donald H., 3,694,611.
 Gray, Richard W.; Morgan, Paul E.; and Rumball, Paul G., 3,656,744.
 Hardwick, Albert R., 3,695,134.
 Hardy, Alan; Messenger, David T.; and Carpenter, Austin T., 3,661,811.
 Hartshorn, Frank; and Millar, George, 3,631,554.
 Hayes, Stanley L., Jr., 3,668,056.
 Heal, Jeremy C.; Snape, Raymond; and Gower, Philip B., 3,660,857.
 Kitchener, Charles J.; and Rumball, Paul G., 3,696,942.
 Kyrtis, William T.; and Simmonds, Robert C., Jr., 3,697,204.
 Matts, George A.; and Quarmbly, Robert C., 3,705,609.
 Maxwell, Bryce, 3,689,181.
 McGarr, John J., 3,679,783.
 McIlvin, Donald B., 3,642,177.
 McLean, George F., Jr., 3,669,600.
 Meyer, Engelbert A., 3,659,320.
 Meyer, Engelbert A., 3,670,368.
 Meyer, Engelbert A., 3,680,272.
 Meyer, Engelbert A., 3,693,494.
 Meyer, Engelbert A., 3,695,654.
 Morgan, Paul E., 3,631,826.
 Mosher, Douglas E.; Treat, Carleton H.; and Drab, Edwin H., 3,704,866.
 Muhlbach, Anton; and Lauckhardt, Gerhard, 3,673,300.
 Muhlbach, Anton; and Fichtner, Rudi, 3,683,439.
 Pearsall, Ralph E., 3,659,727.
 Pickles, Harry, 3,690,206.
 Podell, Howard I.; and Kehoe, Stephen J., 3,693,389.
 Robbins, John E., 3,642,175.
 Robbins, John E.; Willbond, William F.; Tutt, Kingsley J.; Hall, Dennis S.; and Hanson, Raymond, 3,663,139.
 Robinson, Hugh A., 3,667,320.
 Rockwell, Adelbert W., Jr.; Herdeg, Donald F.; and Tardiff, Armand L., 3,641,651.
 Rockwell, Adelbert W., Jr., 3,672,315.
 Romeo, Vincent P., 3,669,309.
 Simmonds, Robert C., Jr.; and Gilbride, Andrew J., 3,632,022.
 Steane, Richard A., 3,667,077.
 Stoddard, Ivan; and Broughton, Terence D., 3,705,433.
 Wickers, Francis A., 3,663,013.
 Wickers, Francis A.; France, David W.; and Mason, Ronald C., 3,665,877.
 Wilkinson, Lionel W. G., 3,643,271.
 Zemlin, John C., 3,647,616.
 USM Corporation, *mesne*: *See—*
 Gilham, George Henry; and Door, Wesley R., 3,665,797.
 Holland, Islaye, 3,631,553.
 USNR Forest Industries, Inc.: *See—*
 Ackersfeldt, Bo Ingemar, 3,665,984.
 Usov, Vladimir Viktorovich; Zernograd Rostovskoi Oblasti; and Shinevsky, Lev Konstantinovich. Chain for chain transmission. 3,685,362, 8-22-72, Cl. 74-253.00r.
 Usry, Joe D., to LTV ElectroSystems, Inc. Cavitating throttling valve. 3,647,176, 3-7-72, Cl. 251-122.
 Usry, Joe D., to E-System, Inc., *mesne*. Balanced pintle valve. 3,700,209, 10-24-72, Cl. 251-282.000.
 Usry, Joe D., to E-System, Inc., *mesne*. Force balancing flapper valve. 3,703,185, 11-21-72, Cl. 137-82.000.
 Usse, Jean E.; and Spindler, Henri, to Centrale d'Exploitation et de Commerce. High frequency electronic pulse generator. 3,662,283, 5-9-72, Cl. 331-94.
 Ustav pro vyzkum motorovych vozidel: *See—*

- Kotoc, Stefan, 3,680,317.
 Mackerle, Julius, 3,642,082.
 Mackerle, Julius, 3,647,012.
 Mackerle, Julius, 3,672,458.
 Ustin, Martin D., to Buchanan Electrical Products Corporation. Apparatus for actuating a limit control element. 3,688,593, 9-5-72, Cl. 74-107.000.
 Ustin, Martin D., to Buchanan Electrical Products Corporation. Electrical limit switch. 3,699,283, 10-17-72, Cl. 200-47.000.
 Usuba, Kunikatsu: *See—*
 Otake, Naokichi; Yamanobe, Yutaka; Siina, Katumi; and Usuba, Kunikatsu, 3,644,862.
 Usuba, Yasunori: *See—*
 Yoshida, Ryonosuke; Takehara, Masahiro; Akiba, Hitoshi; and Usuba, Yasunori, 3,663,459.
 Usuda, Hirotaka: *See—*
 Kondo, Eiroke; Usuda, Hirotaka; Suzuki, Hidemasa; and Furuya, Tuneso, 3,647,981.
 Usuda, Shogo; Mizusasa, Susumu; and Tateo, Harunobu, to Fujitsu Limited and Nippon Telegraph and Telephone Public Corporation. Multifrequency signal receiving circuit. 3,701,857, 10-31-72, Cl. 179-84.0v.
 Usui Kokusai Sangyo Kabushiki Kaisha: *See—*
 Kikuchi, Yasube, 3,642,105.
 Kubo, Naomi, 3,658,490.
 Usui, Masayoshi, 3,697,399.
 Usui, Kouichi: *See—*
 Sugahara, Yujiro; Naito, Hiroyuki; Takai, Kiyoshi; and Usui, Kouichi, 3,650,681.
 Usui, Masashi: *See—*
 Kawaki, Katsumi; and Usui, Masashi, 3,697,982.
 Usui, Masashi, to Tokyo Tokei Seizo Kaisha, Ltd. Electromagnetic driving apparatus. 3,688,488, 9-5-72, Cl. 58-28.00a.
 Usui, Masayoshi, to Usui Kokusai Sangyo Kabushiki Kaisha. Method of continuously plating a steel strap on one surface. 3,697,399, 10-10-72, Cl. 204-15.000.
 Usui, Noriyuki: *See—*
 Arai, Fumiaki; Ohta, Wasaburo; Kurokawa, Junki; Usui, Noriyuki; Shimizu, Sakae; and Tanaka, Tetsuo, 3,682,632.
 Kurokawa, Junji; Arai, Fumiaki; and Usui, Noriyuki, 3,674,474.
 Usui, Yoshio: *See—*
 Masuda, Toru; Usui, Yoshio; Hara, Yukio; and Komatsu, Toshikatsu, 3,644,339.
 Yamanoto, Togo; Henmi, Teruji; Usui, Yoshio; Noda, Etsunosuke; and Yamada, Masayuki, 3,705,246.
 Usui, Yoshito; Shiojima, Kenji; and Hatakeyama, Toshikatsu, to Matsushita Electric Works, Ltd. Small type electro-magnetic contactor. 3,671,891, 6-20-72, Cl. 335-126.000.
 Usui, Yukio: *See—*
 Iwakaki, Yasutaka; Yoshikawa, Minoru; and Usui, Yukio, 3,701,860.
 USV Pharmaceutical Corporation: *See—*
 Elpern, Bill; and Bandurco, Victor T., 3,651,067.
 Elpern, Bill; Shapiro, Harris J.; and Soloway, Harold, 3,651,134.
 Elpern, Bill; and Shroff, James R., 3,669,974.
 Elpern, Bill; Shapiro, Harris J.; Shroff, James R.; and Soloway, Harold, 3,673,238.
 Karten, Marvin J., 3,636,111.
 Uta, Londra Gheorghe F.: *See—*
 Ionescu, Ieodor D.; Uta, Londra Gheorghe F.; and Teodoru, Crizantemel Aurel D., 3,681,214.
 Utah Research & Development Co., Inc.: *See—*
 Cannon, Emerson T., 3,680,386.
 Utah State University: *See—*
 Campbell, Curtis B.; and Grover, Ben L., 3,664,192.
 Utesch, George A., Jr., to General Fire Extinguisher Corporation. Fire control apparatus. 3,642,071, 2-15-72, Cl. 169-2.
 Uthe, Paul M., to Uthe Technology, Inc. Method and apparatus for ultrasonic weld quality analysis employing plural analysis signals. 3,693,158, 9-19-72, Cl. 340-172.00r.
 Uthe Technology, Inc.: *See—*
 Uthe, Paul M., 3,693,158.
 Wright, Loren G., 3,636,456.
 Uthemann, Wolfgang; and Zimmermann, Richard, said Uthemann assor. to Bauerman, W. & Sohne GmbH and said Zimmermann assor. to Rosenkaimer GmbH. Telescopic umbrella. 3,703,182, 11-21-72, Cl. 135-25.000.
 Utica Tool Company, Inc.: *See—*
 Rozmus, Walter J., 3,648,550.
 Utility Industries, Inc.: *See—*
 Pickett, Wiley J.; and Smith, Bynum E. (said Bynum assor. to), 3,673,313.
 U.T.L., Inc.: *See—*
 Rossmann, Rudolf H., 3,663,329.
 Utley, Brian G., to International Business Machines Corporation. Apparatus and a method for automatically testing a system which receives an analog input signal. 3,653,037, 3-28-72, Cl. 340-347.
 Utley, Ronald W., to Bethlehem Steel Corporation. Coal pellet and a method of manufacturing same. 3,655,350, 4-11-72, Cl. 44-10.
 Utley-James, Inc.: *See—*
 Farley, Robert D., 3,648,962.
 Utrecht, Karl A.: *See—*
 Fites, Larry L.; Mann, Kingsley M.; and Utrecht, Karl A., 3,702,132.
 Utsugi, Jun: *See—*
 Naka, Jinshichi; Tokuda, Yasunori; Kono, Takehiko; and Utsugi, Jun, 3,677,773.
 Shirai, Tetsuya; Utsugi, Jun; Tanaka, Koji; and Tokusa, Yasunori, 3,655,746.
 Utsugi, Mikio: *See—*
 Yano, Akira; Kimura, Tsutomu; and Utsugi, Mikio, 3,649,118.
 Utsugi, Mikio; and Ohta, Takahiro, to Fuji Photo Film Co., Ltd. Method of making plastic fiber-optical plates. 3,669,789, 6-13-72, Cl. 156-182.000.
 Utsuhara, Yutaka: *See—*
 Matsui, Maso; Utsuhara, Yutaka; Yamabe, Masahiro; and Tokura, Susuma, 3,672,802.
 Utsumi, Isamu; Watanabe, Toshiro; Kohno, Keiichi; Daira, Isamu; and Otsubo, Akira, to Tanabe Seiyaku Co., Ltd. α -O-Acetylpyridoxal derivatives. 3,644,385, 2-22-72, Cl. 260-295.5.
 Utsunomiya, Jitsuo. Method of making artificial hair pieces. 3,670,741, 6-20-72, Cl. 132-5.000.
 Utsunomiya, Kimitake; and Yasuda, Hitoshi, to Sony Corporation. Electron beam deflection system utilizing a yoke having a plurality of separate winding toroidally wound thereon. 3,688,156, 8-29-72, Cl. 315-276.00d.
 Utterback, Victor I. Pulp chip forming apparatus. 3,643,714, 2-22-72, Cl. 144-176.
 Utton, Norman, to Automotive Products Company Limited. Clutch bearing with magnetic support. 3,640,364, 2-8-72, Cl. 192-98.
 Uttrachi, Gerald D.; and Messina, Joseph E., to Union Carbide Corporation. Method of D.C. constant potential submerged arc welding. 3,659,073, 4-25-72, Cl. 219-73.
 Utyakov, Lev Lazarevich: *See—*
 Borsov, Konstantin Grigorievich; Markman, Iosif Leibovich; Sitnikov, Leonid Semenovich; and Utyakov, Lev Lazarevich, 3,659,163.
 Sitnikov, Leonid Semenovich; Utyakov, Lev Lazarevich; and Skorik, Alexandr Grigorievich, 3,683,207.
 Uyama, Noboru; Shimada, Yoshiaki; Hino, Masamichi; and Yoneda, Rinosuke, to Kubota Tekko Kabushiki Kaisha; a/k/a Kubota, Ltd. Weighing device. 3,648,792, 3-14-72, Cl. 177-210.
 Uyama, Takashi: *See—*
 Kobayashi, Kanjiro; Uyama, Takashi; Suzuki, Hideo; and Shirai, Hiroshi, 3,660,499.
 Uyeda, Mikio: *See—*
 Ozawa, Tokuji; Uyeda, Mikio; Hashimoto, Ryosuke; and Suzuki, Shigenori, 3,696,166.
 Uyeda, Tim M.; and Thurman, Harry W., to Samsonite Corporation. Tray for game table. 3,638,587, 2-1-72, Cl. 108-66.
 Uyeda, Tim M., to Samsonite Corporation. Stackable folding chair. 3,695,687, 10-3-72, Cl. 297-56.000.
 Uyeda, Yoshio: *See—*
 Lee, Leonard S.; Uyeda, Yoshio; and Heneghan, Leo F., 3,697,322.
 Uyeo, Keizo: *See—*
 Ichiki, Eiichi; Iida, Kazuo; Inoue, Yashuhiko; and Uyeo, Keizo, 3,691,108.
 Uzawa, Kazumoto: *See—*
 Takamizawa, Minoru; Hayashi, Takayoshi; Uzawa, Kazumoto; Takita, Masatoshi; and Kudo, Yoshiaki, 3,642,596.
 Uziie, Akira; and Nagata, Junichi, to Mitsubishi Jukogyo Kabushiki Kaisha. Electroslag remelting process. 3,683,997, 8-15-72, Cl. 164-52.000.
 Uzilevsky, Vladimir Aronovich: *See—*
 Odnolko, Valentin Vladimirovich; and Uzilevsky, Vladimir Aronovich, 3,688,026.
 Uzina de Autocamioane "Steagul Rosu" Brasov: *See—*
 Dobosan, Valeriu; and Cascaval, Nicolae, 3,702,916.
 Uzina Mecanica de Gaz Metan Medias: *See—*
 Szumilas, Wladislaw; Adam, Macedon Emil; Lata, Ilie; and Muresan, Gheorghe, 3,685,793.
 Uzina Rulmentul: *See—*
 Goguta, Trian, 3,685,339.
 Uzina 23 August: *See—*
 Sfinteanu, Dragos; and Paul, Marius Angelo, 3,633,358.
 Uzinele Electronice Bucharest: *See—*
 Georgescu, Gheorghe, 3,697,878.
 Uzu, Keizo; Nakano, Kinichi; and Takahashi, Toshinaka, to Kyowa Hakko Kogyo Kabushiki Kaisha. O-acyl decarbamoyl mitomycins. 3,641,053, 2-8-72, Cl. 260-326.3.
 Uzu, Keizo; Nakano, Kinichi; and Takahashi, Toshinaka, to Kyowa Hakko Kogyo Kabushiki Kaisha. Aziridino mitosenes. 3,644,400, 2-22-72, Cl. 260-326.3.
 Uzu, Keizo; Nakano, Kinichi; and Takahashi, Toshinaka, to Kyowa Hakko Kogyo Kabushiki Kaisha. Alkyl mitomycins. 3,658,794, 4-25-72, Cl. 260-239.
 Uzuhashi, Hideo: *See—*
 Hosoda, Taisei; Uzuhashi, Hideo; Osiyama, Hiroichi; and Ioka, Kazuo, 3,657,899.
 Uzuki, Isao: *See—*

Kuramoto, Kaoru; Maejima, Nobuo; Miyakubo, Kiichiro; and Uzuki, Isao, 3,657,396.
 V-M Corporation: *See—*
 Guha, Dwipendra Nath, 3,682,485.
 V-Mark Automation Ltd.: *See—*
 Klein, Edward I., 3,653,788.
 Vaa, Dyre. Pivot window. 3,638,360, 2-1-72, Cl. 49-248.
 Vaalburg, Teunis: *See—*
 Dahlquist, Ernst A.; Polakooski, Stanley J.; and Vaalburg, Teunis, 3,698,423.
 Vac Pac Manufacturing Company, Inc.: *See—*
 Perlman, Sol J., 3,686,823.
 Vacante, Matthew. Dual wheel steering means. 3,669,465, 6-13-72, Cl. 280-87.00r.
 Vacanti, Francesco: *See—*
 Beghelli, Benito; Vacanti, Francesco; and Guerani, Giampaolo, 3,681,280.
 Vacaro, Angelo L. Garbage bag retention means. 3,664,622, 5-23-72, Cl. 248-95.
 Vaccaro, Angelo, to Columbia Controls Research Corporation. Magnetically readable bar and code. 3,654,435, 4-4-72, Cl. 235-61.12.
 Vaccaro, Angelo, to Columbia Controls Research Corporation. Method and apparatus for standardizing densitometers. 3,669,543, 6-13-72, Cl. 356-42.000.
 Vaccaro, Angelo; and Dixon, Harold F. E., to Columbia Controls Research Corporation. Coded document and system for automatically reading same. 3,676,644, 7-11-72, Cl. 235-61.11d.
 Vaccaro, Frank J.: *See—*
 Sharpe, Louis H.; Shroff, Jayant R.; and Vaccaro, Frank J., 3,652,340.
 Vacek, Lubomir C., to Sherwin-Williams Company, The. Organic sulfur compounds and method of production thereof. 3,652,632, 3-28-72, Cl. 260-455.
 Vach, Miroslav, to Elitex, Zavody textilniho strojirenstvi. Electroimpulsive decimal counter. 3,655,951, 4-11-72, Cl. 235-92.
 Vacha, Fred. Glare shield. 3,695,658, 10-3-72, Cl. 296-97.00c.
 Vachenaue, Robert: *See—*
 Knauff, Gunter; Koederitz, Fritz; Painke, Helmut; Reichl, Leopold; Lampe, Hans H.; Vachenaue, Robert; Vogt, Edwin; and Weber, Hermann, 3,659,273.
 Vacik, Jiri: *See—*
 Kliment, Karel; Vacik, Jiri; Ott, Zdenek; Majkus, Vladimir; Stol, Miroslav; Stoy, Vladimir; and Wichterle, Otto, 3,689,634.
 Vacirca, Michael; Smith, Michael; and Tejera, Louis, to Mal-linckrodt Chemical Works. Apparatus for mixing liquids. 3,684,455, 8-15-72, Cl. 23-253.00r.
 Vactronics Incorporated: *See—*
 Selley, Wilbur-Webb, 3,667,774.
 Selley, Wilbur-Webb, 3,674,287.
 Selley, Wilbur-Webb; and Schaffer, Richard H., 3,679,885.
 Vacu-Blast corporation: *See—*
 Arnold, Ted A., 3,672,292.
 Vacuum Concrete Corporation of America: *See—*
 Creskoff, Jacob J., 3,640,562.
 Vacuum/Atmospheres Corporation: *See—*
 Ellison, John M., 3,687,570.
 Vacuumsmelze GmbH: *See—*
 Pfeifer, Friedrich, 3,657,025.
 Vadas, Leslie, to Castle & Cooke, Inc. Pineapple coring and recording. 3,642,043, 2-15-72, Cl. 146-6.
 Vadas, Leslie; and Drake, Robert W., to Castle & Cooke, Inc. Multilane fruit peeling system. 3,656,527, 4-18-72, Cl. 146-238.
 Vadas, Leslie, to FMC Corporation. Processing of contour peeled fruit halves. 3,656,529, 4-18-72, Cl. 146-224.
 Vadasz, Leslie L., to Intel Corporation. Integrated circuit structure and method for making integrated circuit structure. 3,699,646, 10-24-72, Cl. 29-571.000.
 Vadasz, Leslie L.; and Karp, Joel A., to Intel Corporation. Three-line cell for random-access integrated circuit memory. 3,706,079, 12-12-72, Cl. 340-173.0ca.
 Vadeboncoeur, Leo: *See—*
 Bergeron, Zoel; and Vadeboncoeur, Leo, 3,661,022.
 Vadekar, Mohan: *See—*
 Pasternak, Israel S.; Gaspar, Noel J.; Cohen, Abraham D.; and Vadekar, Mohan, 3,636,183.
 Vaden, James L., to International Telephone and Telegraph Corporation. Flat cable wafer. 3,678,437, 7-18-72, Cl. 339-18.00c.
 Vadic Corporation, The: *See—*
 Saunders, Teddy G., 3,648,187.
 Vadnais, James D. Electrical junction box. 3,701,448, 10-31-72, Cl. 220-3.900.
 Vadnie, Marilyn D. Skirting for mobile homes. 3,694,979, 10-3-72, Cl. 52-169.000.
 Vaerco, Inc.: *See—*
 Sarofeen, George M. J., 3,685,214.
 Vaerk, Lembit: *See—*
 Lamer, Gerald P.; and Vaerk, Lembit, 3,658,188.
 Vaessen, Franz, to Hochtief A.G. für hoch-und Tiefbauten vorm. Gebr. Helfmann. Cylindrical tank for containing high-pressure fluids. 3,683,574, 8-15-72, Cl. 52-224.000.

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 Vagenius, Helen M.: *See—*
 Vagenius, Harold N., 3,655,868.
 Vaghi, Luigi. Device for feeding different gauge films on industrial editing and synchronizing tables. 3,633,805, 1-11-72, Cl. 226-76.
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 Podesva, Citrado; and Vagi, Kitty, 3,682,888.
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 Vaginay, Yves: *See—*
 Pich, Rene; and Vaginay, Yves, 3,692,744.
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 Vaher, Ilmar Valfeid: *See—*
 Lindqvist, Stig Gustaf; and Vaher, Ilmar Valfeid, 3,638,124.
 Vahlensieck, Hans-Joachim: *See—*
 Seiler, Claus-Dietrich; Vahlensieck, Hans-Joachim; and Boje, Kurt, 3,706,776.
 Seiler, Claus-Dietrich; and Vahlensieck, Hans-Joachim, 3,706,777.
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 Vaiden, I. Clifford, to Barber-Colman Company. Thermocouple protection tube for use in molten metal. 3,680,382, 8-1-72, Cl. 73-343.00r.
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 Wade, Jesse L.; and Vail, Arthur E., 3,643,631.
 Vail, Edwin G. Cardiovascular assist device. 3,659,593, 5-2-72, Cl. 128-64.
 Vail, Evelyn W.; and Popik, John, to Alert, Inc. Proximity warning transmitter for emergency vehicles. 3,660,811, 5-2-72, Cl. 340-33.
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 Vaill, John L., to Torrington Company, The. Method and apparatus for forming cylindrical shapes. 3,648,500, 3-14-72, Cl. 72-71.
 Vaillancourt, Vincent L.: *See—*
 Bohner, Thomas H.; and Vaillancourt, Vincent L., 3,651,615.
 Vaillant, Joh., K.G.: *See—*
 Altenstadt, Helmut Schmidt Auf, 3,661,325.
 Frithjof, Carouge, 3,685,733.
 Meier, Hans, 3,647,136.
 Meier, Hans; and Carouge, Frithjof, 3,669,351.
 Mobus, Gunter, 3,676,041.
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 Vairogs, Juris, to Cities Service Oil Company. Pipeline transportation. 3,648,713, 3-14-72, Cl. 137-1.
 Vaisala Oy: *See—*
 Kalliomaki, Kalevi Juhani; Tiuri, Martti Eelis; and Vakkila, Seppo Matti, 3,670,275.
 Vaites, Allan Holmes: *See—*
 Vaites, Allan Holmes; and Clark, William Van Alan, Jr. (said Clark assor. to said), 3,687,768.
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 Svoboda, Vladimir; and Vajda, Andrej, 3,707,083.
 Vajda, Geza L. Ionic corrosion and scale removal system for plumbing. 3,637,482, 1-25-72, Cl. 204-228.
 Vajna, Eugenio: *See—*
 Arrighetti, Sergio; Vajna, Eugenio; and Cesca, Sebastiano, 3,676,510.

Arrighetti, Sergio; Vajna, Eugenio; and Cesca, Sebastiano, 3,676,511.
 Arrighetti, Sergio; Vajna, Eugenio; and Cesca, Sebastiano, 3,676,512.
 Vajna, Sandor: *See—*
 Labriola, Mario; and Vajna, Sandor, 3,645,673.
 Vajnovsky, Barnabas, to Bel-Art Products. Apparatus for measuring the activity of laboratory animals. 3,633,001, 1-4-72, Cl. 235-92.
 Vaka, Gregory A.: *See—*
 Mayer, Gerald C.; Vaka, Gregory A.; Zuckermann, Raymond S.; and Jarman, Alonzo B., 3,701,414.
 Vakil, Jayantkumar R.: *See—*
 Shahani, Khem M.; Vakil, Jayantkumar R.; and Chandan, Ramesh Chandra, 3,689,640.
 Vakkila, Seppo Matti: *See—*
 Kalliomaki, Kalevi Juhani; Tiuri, Martti Eelis; and Vakkila, Seppo Matti, 3,670,275.
 Vakuum Vulk Holdings Ltd.: *See—*
 Schelkmann, Wilhelm, 3,689,337.
 Val-Jac Manufacturing and Supply Company: *See—*
 Clair, Gilbert D., 3,680,583.
 Valadez, Carlos. Illusion display apparatus. 3,655,272, 4-11-72, Cl. 350-235.
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 Valat, Christian: *See—*
 Crespel, Michel; and Valat, Christian, 3,707,606.
 Valayil, Sylvester Paul: *See—*
 Kardos, Otto; Arcilesi, Donald Allan; Tomson, Arthur James; and Valayil, Sylvester Paul, 3,682,788.
 Valayil, Sylvester Paul; and Passal, Frank, to M & T Chemicals Inc. Electrodeposition of bright acid tin and electrolytes therefor. 3,634,212, 1-11-72, Cl. 204-54.
 Valbjorn, Knud Vagan: *See—*
 Leffers, Hans Ulrik; Romer, Bendt Wegge; and Valbjorn, Knud Vagan, 3,664,461.
 Valbjorn, Knud Vagn: *See—*
 Knudsen, Jorgen Dahlman; Romer, Bendt Wegge; and Valbjorn, Knud Vagn, 3,664,769.
 Valbona, Bruno M.: *See—*
 Swanke, Roy L.; Valbona, Bruno M.; and Samuelian, Maurice P., 3,689,999.
 Valbona, Bruno M.; Emmons, Robert J.; and Samuelian, Maurice P., to Dynamics Corporation of America. Lightweight vacuum cleaner. 3,667,084, 6-6-72, Cl. 15-323.000.
 Valbona, Bruno M.; Conlon, William J.; and Voglesonger, Harry M., to Dynamics Corporation of America. Vacuum cleaner. 3,695,006, 10-3-72, Cl. 55-274.000.
 Valbonesi, Giuseppe: *See—*
 Casella, Luigi; Perna, Aldo; and Valbonesi, Giuseppe, 3,673,340.
 Valbonesi, Giuseppe, to Societa Italiana Telecomunicazioni Siemens S.p.A. Repeater with bias-compensating means. 3,665,125, 5-23-72, Cl. 179-170.
 Valbusa, Luigi: *See—*
 Merli, Paolo; and Valbusa, Luigi, 3,655,391.
 Valco, Inc.: *See—*
 Thomas, Buford L.; and Steffens, David G., 3,642,181.
 Valcor Engineering Corporation: *See—*
 Arnold, Kurt Herbert, 3,645,653.
 Vald Henriksen A/S: *See—*
 Henningsen, Erik; and Nielsen, Hans Borge, 3,696,645.
 Nielsen, Hans, 3,670,532.
 Valdes, Juan Cesar: *See—*
 Lopez, Oscar; and Valdes, Juan Cesar, 3,638,314.
 Valdes, Juan J. Tile placing machine. 3,678,645, 7-25-72, Cl. 52-749.000.
 Valdes, Pelayo F. Integrated modular refrigeration system. 3,696,631, 10-10-72, Cl. 62-282.000.
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 Valdettaro, Alarico A.: *See—*
 Badger, Joe G.; and Valdettaro, Alarico A., 3,689,853.
 Valdman, Anna Ivanovna: *See—*
 Potak, Yakov Mikhailovich; Orzhikhovskiy, Julian Felixovich; Sachkov, Vladimir Vladimirovich; Kagan, Efim Solomonovich; Valdman, Anna Ivanovna; Shpagina, Nadezhda Nikolaevna; Poplavko-Mikhailov, Mikhail Vasilievich; Fomin, Alexandr Pavlovich; and Natapov, Smon Leibovich, 3,690,869.
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 Valenta, Joseph C.; and Steinhauer, Alfred F., to Dow Chemical Company, The. Novel compositions of matter and methods for preparing the same. 3,645,906, 2-29-72, Cl. 252-171.
 Valentas, Kenneth J.: *See—*
 Strommer, Palmer K.; Valentas, Kenneth J.; and Dunning, Herbert Neal, 3,656,965.
 Valente, Angelo M.: *See—*
 Eddy, John W.; Fitch, Harold G.; Mui, Wing F.; and Valente, Angelo M., 3,681,537.
 Valente, Peter Reginald, to Hallite Holdings Limited. Gland seal assemblies. 3,663,076, 5-16-72, Cl. 308-36.100.
 Valente, Raymond L.: *See—*
 Adduci, Nicholas F.; and Valente, Raymond L., 3,658,332.
 Valente, Raymond L. Control method and apparatus for a fabricating system. 3,643,535, 2-22-72, Cl. 83-50.
 Valente, Raymond L., to Manco Manufacturing Co. 1-Beam cutting machine. 3,656,388, 4-18-72, Cl. 83-456.
 Valenti, Robert M.: *See—*
 Farrand, Weston B.; Gardner, John N.; and Valenti, Robert M., 3,686,934.
 Valentin, Donald E.: *See—*
 Galis, Leon A.; and Valentin, Donald E., 3,689,200.
 Valentin, Georges: *See—*
 Kiehl, Jean-Pierre; and Valentin, Georges, 3,652,306.
 Valentine, Alan T., to Ohio Brass Company, The. Insulating liner for man-carrying buckets. 3,642,096, 2-15-72, Cl. 182-46.
 Valentine, Donald E.: *See—*
 Galis, Leon A.; and Valentine, Donald E., 3,707,144.
 Valentine, Harold G. Dough kneading apparatus for forming pastry shells. 3,659,828, 5-2-72, Cl. 107-38.
 Valentine, Harry M., to Bendix-Westinghouse Automotive Air Brake Company. Locking means for a valve operating plunger. 3,664,632, 5-23-72, Cl. 251-101.
 Valentine, Henry L.: *See—*
 Valentine, Louis A.; and Valentine, Henry L., 3,637,265.
 Valentine, James R., Jr.; and McBee, Ralph C., to Comatic Tiles, Inc. Method of making multi-layer articles. 3,644,160, 2-22-72, Cl. 156-250.
 Valentine, John J. Method of making a non-metallic cast chill. 3,644,608, 2-22-72, Cl. 264-71.
 Valentine, L. Travis. Apparatus for aligning the ends of adjoining lengths of pipe. 3,644,977, 2-29-72, Cl. 29-200.
 Valentine, Louis A.: *See—*
 Valentine, Louis A.; and Valentine, Henry L., 3,637,265.
 Valentine, Louis A.; and Valentine, Henry L., to Valentine, Louis A. and Valentine, Henry L. Track slide assembly for snowmobiles. 3,637,265, 1-25-72, Cl. 305-24.
 Valentine, Norman Stanley, to Polymark Limited. Method of and apparatus for feeding laundered textile sheets to a feed band. 3,657,832, 4-25-72, Cl. 38-143.
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 Valentino Pete P. Device for tuning stringed instruments. 3,680,427, 8-1-72, Cl. 84-456.000.
 Valerius, Paul Nicholas: *See—*
 Giddings, Sydney Arthur; and Valerius, Paul Nicholas, 3,701,706.
 Valeron Corporation, The: *See—*
 Milewski, Victor, 3,646,650.
 Robinson, James J., 3,635,572.
 Walker, Robert W., 3,667,856.
 Valette, Raymond, to Rolland, Albert, S.A. 1-p-Chlorophenyl-1,3,3-trimethyl-1,3-propane diol or the treatment of depressive states. 3,660,560, 5-2-72, Cl. 424-343.
 Valfre, Cesare. Negative impedance amplifier. 3,684,975, 8-15-72, Cl. 330-207.00p.
 Vali, Victor: *See—*
 Krogstad, Reuben S.; and Vali, Victor, 3,639,063.
 Valiavedan, George Devasia, to Du Pont de Nemours, E. I., and Company. Process for coloring polyesters with rhodamine, xanthene or benzophenyl safranin dyes. 3,644,270, 2-22-72, Cl. 260-40.
 Valikhodzhaev, Asomkhodzha: *See—*

- Akhmedov, Rustam Berovich; Talibdzhanov, Zakhidzhan Sadykdzhanovich; Valikhodzhaev, Asomkhodzha; and Rashidov, Faizulla Karimovich, 3,664,587.
- Valint, Paul L., Jr.: *See—*
Oswald, Alexis A.; and Valint, Paul L., Jr., 3,662,034.
- Valint, Paul L., Jr., to Esso Research and Engineering Company. Azinyl organophosphorus compounds. 3,665,001, 5-23-72, Cl. 260-239.
- Valio Meijerierien Keskusosuusliike: *See—*
Moisio, Tauno V.; and Kreula, Matti S., 3,691,455.
- Valjoux S.A.: *See—*
Mouquin, Paul-Louis, 3,675,412.
- Vallak, Enn.: *See—*
Allvin, Bertil Hilmer, 3,706,682.
- Vallancourt, Ronald J.: *See—*
Daly, William F.; and Vallancourt, Ronald J., 3,702,605.
- Vallas, Theodore L. Golf course. 3,649,027, 3-14-72, Cl. 273-176.
- Valle, Thomas, 1/3 to Crandell, Ralph R. and 1/3 to Hack, Albert G. W. Tool for attaching sinkers to a fishing line. 3,664,006, 5-23-72, Cl. 29-212.
- Vallee, Felix Alexandre Jules. Apparatus for the sterilization of food products. 3,641,917, 2-15-72, Cl. 99-251.
- Vallee, Rene Louis: *See—*
Chicheportiche, Armand; Vallee, Rene Louis; and Vergez, Pierre, 3,662,273.
- Vallent, Martin A., to United States of America, Navy. Automated analyzer of machine operation. 3,668,679, 6-6-72, Cl. 340-267.00r.
- Valleroy, Gustave J.: *See—*
Rock, William A.; and Valleroy, Gustave J., 3,681,084.
- Vallet, Guy, to Societe Generale de Constructions Electriques et Mecaniques (Alstom). Float container for an automatic constant downstream level gate. 3,695,043, 10-3-72, Cl. 61-22.000.
- Valletti, Rose; and Arone, Angela. Foot pedal positioning device. 3,667,316, 6-6-72, Cl. 74-560.000.
- Valley Craft Products, Inc.: *See—*
Danielson, Gunnar H., 3,677,436.
- Valley Decorating Company, mesne: *See—*
Sneller, Lee J., 3,664,626.
- Valley Engineering, Inc.: *See—*
Waterman, Donald H., 3,652,106.
- Valley Steel Products Company: *See—*
Hiller, James J., 3,643,853.
- Valleylab, Inc.: *See—*
Anderson, Robert K., 3,683,923.
Anderson, Robert K., 3,699,967.
- Valli, Roberto. Apparatus for collecting and conveying eggs. 3,685,494, 8-22-72, Cl. 119-48.000.
- Vallicella, Rolando Mario. Combined tree shaker and fruit harvester. 3,683,617, 8-15-72, Cl. 56-329.000.
- Vallier, Jean-Pierre: *See—*
Richard, Georges A. L.; Cognet, Jean-Marie F.; Heullant, Jean; and Vallier, Jean-Pierre, 3,662,067.
- Vallieres, Ulric, to St. Lawrence Manufacturing Company, Inc. Drive system. 3,648,532, 3-14-72, Cl. 74-230.17.
- Vallino, Barney; and Merchant, Thomas G., to Atlantic Richfield Company. Catalyst sampling apparatus. 3,653,265, 4-4-72, Cl. 73-421.
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- Vallis, Joseph. Folding utensil. 3,648,321, 3-14-72, Cl. 15-185.
- Vallone, Giacinto: *See—*
Freeman, Arthur H.; and Vallone, Giacinto, 3,694,604.
- Valmet Oy: *See—*
Berg, Nils-Christian; and Soininen, Mauri Aatos, 3,668,787.
- Valmont Industries, Inc.: *See—*
Delfs, Larry M., 3,672,572.
- Valoh, Alfons: *See—*
Vockenhuber, Karl; Pammer, Gottfried; Krob, Erwin; Forch, Friedrich; Revy-Belvard, Peter; and Valoh, Alfons, 3,656,703.
- Valonis, Edmund J., to Inland Steel Company. Apparatus for confining cobbles. 3,690,134, 9-12-72, Cl. 72-37.000.
- Valpar Corporation, The: *See—*
Heiss, Frederick H.; and Lindblom, Carl E., 3,670,785.
Pipkins, David D., 3,699,982.
Pipkins, David D., 3,705,044.
- Valstar, Jacob E., to North American Rockwell Corporation. Ground mapping radar system. 3,680,086, 7-25-72, Cl. 343-5.0cm.
- Valtonen, Rainer Ilkka Tapio, to Oy Nokia AB. Connecting plug for a current supply rail arrangement intended particularly for lighting purposes and small-sized electrical motors. 3,646,501, 2-29-72, Cl. 339-75.
- Value Engineered Components, Inc.: *See—*
Ryder, Francis E., 3,665,800.
- Valus, Ronald J.: *See—*
Clark, Ronald D.; and Valus, Ronald J., 3,651,109.
- Valvassori, Alberto: *See—*
Cameli, Nazzareno; Lingi, Paolo; and Valvassori, Alberto, 3,651,009.
- Cameli, Nazzareno; Longi, Paolo; Valvassori, Alberto; and Parodi, Sandro, 3,651,032.
- Cameli, Nazzareno; Longi, Paolo; Valvassori, Alberto; and Flisi, Umberto, 3,670,055.
- Cameli, Nazzareno; Longi, Paolo; and Valvassori, Alberto, 3,674,754.
- Longi, Paolo; Valvassori, Alberto; Greco, Francesco; and Bernasconi, Ermanno, 3,658,770.
- Longi, Paolo; Valvassori, Alberto; Greco, Francesco; and Bernasconi, Ermanno, 3,660,364.
- Longi, Paolo; Valvassori, Alberto; Greco, Francesco; and Bernasconi, Ermanno, 3,684,782.
- Severini, Febo; Valvassori, Alberto; and Tavazzani, Carlo, 3,676,528.
- Valve Corporation of America: *See—*
Steiman, Wolf, 3,675,823.
- Valyi, Emery I., to Olin Corporation. Heat exchanger. 3,666,006, 5-30-72, Cl. 165-164.000.
- Valyi, Emery I. Method of compression molding a thermoplastic article with walls of variable thickness. 3,670,066, 6-13-72, Cl. 264-148.000.
- Van Acker, Eduard M. A. A. J.: *See—*
Smid, Jacoba P. E.; van der Ven, Servaas; van der Vliet, Hendrik; and Van Acker, Eduard M. A. A. J., 3,632,552.
- Van Acker, John J.; and Zimmer, Robert E., to Addressograph-Multigraph Corporation. Portable battery powered eraser and support therefor. 3,684,941, 8-15-72, Cl. 320-2.000.
- Van Allan, James A.; De Meyer, Dennis E.; and Allen, Frank D.; deceased (by Allen, Mona Armstrong; executrix), to Eastman Kodak Company. Photographic element and process. 3,642,479, 2-15-72, Cl. 96-48.
- Van Allen, David: *See—*
Knight, Frank W.; and Van Allen, David, 3,679,417.
- Van Alphen, Gerard Herman; Jongenelen, John; and Van Werd, Johannes Hendricus Franciscus, to U.S. Philips Corporation. Balast. 3,646,582, 2-29-72, Cl. 339-95.
- Van Amerongen, Gerrit J.: *See—*
La Heij, Gerardus E.; and Van Amerongen, Gerrit J., 3,642,762.
La Heij, Gerardus E.; and Van Amerongen, Gerrit J., 3,700,757.
- Van Arsdale, Lyle R.: *See—*
Grove, Marvin H.; and Van Arsdale, Lyle R., 3,638,475.
Grove, Marvin H.; Kim, Kee W.; and Van Arsdale, Lyle R., 3,641,542.
Grove, Marvin H.; and Van Arsdale, Lyle R., 3,664,356.
Grove, Marvin H.; and Van Arsdale, Lyle R., 3,668,923.
- Van Artsdalen, Earl F.: *See—*
Quinlan, Joseph B.; and Van Artsdalen, Earl F., 3,698,319.
- Van Asbroeck, Roger: *See—*
Bequet, Jean Francois; Van Asbroeck, Roger; and Du Bois, Paul, 3,661,694.
- van Asperen, Pieter J.; and van der Loos, Jozef L. M., to Stamcarbon N.V. Fillers for metallized polyamides. 3,674,658, 7-4-72, Cl. 204-30.000.
- Van Assendelft, Leendert: *See—*
Leibbrand, Bertus; Mertens, Johan J.; Ploeger, Harm A.; Sluifers, Robert; and Van Assendelft, Leendert, 3,706,192.
- Van Atta, Lester C.; and Mailloux, Robert J., to United States of America, National Aeronautics and Space Administration. Circularly polarized antenna. 3,680,142, 7-25-72, Cl. 343-770.000.
- Van Auker, John; Kaufman, M. Gene; and Pfaff, William A., to Saxon Industries, Inc. Microfilm attachment for copying machine. 3,677,637, 7-18-72, Cl. 355-45.000.
- Van Auker, John A.; Kaufman, Mahlon Gene; and Blank, Fritz, to Saxon Industries, Inc. Copying machine system. 3,677,635, 7-18-72, Cl. 355-11.000.
- Van Auker, Thomas Vincent; and Brode, George Lewis, to Union Carbide Corporation. Cycloaliphatic mercaptans. 3,632,654, 1-4-72, Cl. 260-609.
- Van Ausdal, Robert K.; and Cooper, Donald R., to Bendix Corporation, The. Fluidic accelerometer. 3,707,090, 12-26-72, Cl. 73-515.000.
- Van Avermaete, Gilbert. Rotary machine. 3,665,811, 5-30-72, Cl. 91-492.
- Van Baarn, Paul S., to Captocap Limited. Fluid-tight, flexible and tamper-proof caps for containers having a matching neck profile. 3,696,957, 10-10-72, Cl. 215-41.000.
- Van Barneveld, Evert Jan: *See—*
Huyben, Bernardus Johannes Maria; Van Barneveld, Evert Jan; and Van De Steen, Louwrens Marinus, 3,656,010.
- Van Baush, Edward Harold: *See—*
Meisler, Joseph; Banikiotes, Gregory C.; and Van Baush, Edward Harold, 3,691,779.
- Van Beek, Ferdinandus Maria Josephus, to U.S. Philips Corporation. Projection filament lamp. 3,706,900, 12-19-72, Cl. 313-222.000.
- Van Beek, Kenneth D.: *See—*
Elkow, Steven A.; and Van Beek, Kenneth D., 3,658,373.
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- Van Bergen, Johannes Antonius Wilhelmus Petrus. Ear-ornament clips. 3,654,774, 4-11-72, Cl. 63-14.
- Van Besauw, Jan Frans: *See—*
Poot, Albert Lucien; Van Besauw, Jan Frans; and Depoorter, Henri, 3,676,133.
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- Van Beusekom, Philip C., to Minnesota Mining and Manufacturing Company. Pre-sensitized color proofing sheet. 3,671,236, 6-20-72, Cl. 96-15.000.
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- Van Bragt, Johannes Maria. Device for uniting tubular articles with sealing elements in a gas-tight manner. 3,645,599, 2-29-72, Cl. 316-30.
- Van Brakel, Russel A., to Haverberg Auto Laundry Equipment Co., Inc. Hub cap washer. 3,643,275, 2-22-72, Cl. 15-21.
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- Van Breugel, Johannes G. A. Electrode for measuring alternating voltages in an electrolyte. 3,677,083, 7-18-72, Cl. 73-194.0em.
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- Van Brunt, George H. Drip coffee maker. 3,695,168, 10-3-72, Cl. 99-306.000.
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- Van Buren, George F. Lighting control system. 3,706,914, 12-19-72, Cl. 315-316.000.
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- Van Cor, Frederick Boyd: *See—*
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- Van Daalen, Francois, to Shell Oil Company. Method and apparatus for stabilizing an offshore drilling platform structure. 3,646,770, 3-7-72, Cl. 61-46.5.
- Van Daalen, Leendert, to N.V. Plastic Industrie Van Daalen. Holder for a number of associated individual containers. 3,667,647, 6-6-72, Cl. 220-23.400.
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- Van Dalen, Christiaan Johannes, to De Staat der Nederlanden, Ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Magnetic pin tumbler lock. 3,641,793, 2-15-72, Cl. 70-276.
- Van Dalen, Leonard; and Gadren, George S., to Seaboard Fabricators, Inc. Wire stripper and cutter. 3,636,798, 1-25-72, Cl. 81-9.5.
- Van Dam, Max; and Yung, Diana S. Y., to Olivetti, Ing., C., & C., S.p.A. Process for the polymerization of N-vinylcarbazole in the presence of 2,4,5,7-tetranitro-9-fluorenone. 3,661,879, 5-9-72, Cl. 260-88.3.
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- Van de Bilt, Pieter Arnoldus, to N.V. Metaverpa. Wire or band strapping machine. 3,667,378, 6-6-72, Cl. 100-26.000.
- van de Bilt, Pieter Arnoldus. Apparatus for applying, tensioning and sealing a synthetic band around a package. 3,690,090, 9-12-72, Cl. 53-198.00r.
- van de Kerkhof, Lodevicus Lambertus Johannes, to AMP Incorporated, mesne. Round socket applicator. 3,673,847, 7-4-72, Cl. 72-405.000.
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- Van De Meerendonk, Gerardus C., to Nedischroef Octrooi Maatschappij N.V. Machine for upsetting bolts and similar article. 3,688,322, 9-5-72, Cl. 10-12.00r.
- van de Pol, Eugene J. M., to N.V. Ontwerp-en Exploitatiebureau "Shunt". Tipping lock for a garbage chute. 3,658,242, 4-25-72, Cl. 232-44.
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Huyben, Bernardus Johannes Maria; Van Barneveld, Evert Jan; and Van De Steen, Louwrens Marinus, 3,656,010.
- Van De Velde, Valere: *See—*
Decker, Wilton K.; and Van De Velde, Valere F. (said Decker assor. to said), 3,697,738.
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- Van de Water, Francis M. Vehicle top boat loader and carrier. 3,693,817, 9-26-72, Cl. 214-450.000.
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- Van Deberg, Walter H.; and Thompson, Earl A.; deceased (by Thompson, Elizabeth F.; by Franseth, Paul; and by Wild, Michael M.; executors), to Lamb, F. Jos., Company. Method of making molds. 3,688,830, 9-5-72, Cl. 164-22.000.
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Hovagimyan, Norman; and Van Delft, Robert Neale, 3,639,908.
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- Van Den Avoort, Pieter Marinus; and Terpstra, Lieuwe, to U.S. Philips Corporation. Color television display device with index type cathode ray tube. 3,688,024, 8-29-72, Cl. 178-5.40f.
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- van den Berg, Hendrik; and Levelink, Herman G. Process for preparing moulding sand. 3,666,504, 5-30-72, Cl. 106-38.350.
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- Van den Bosch, Mathijs. Electrical switch having adjustable conductive-liquid level. 3,683,136, 8-8-72, Cl. 200-61.470.
- van den Bovenkamp, Gustaaf J.: *See—*
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- Van Den Bulcke, Emile Oscar, to Corkerill-Ougree-Providence et Esperance. Apparatus for cooling wire rod. 3,704,874, 12-5-72, Cl. 266-3.000.
- Van Den Bussche, Willem: See—
Sluys, Robert Nestor Joseph; Wessels, Johannes Hendrik; and Van Den Bussche, Willem, 3,700,798.
- Van Den Elzen, Norbert L.: See—
Goldbeck, Leroy J.; and Van Den Elzen, Norbert L., 3,655,422.
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- Van Den Heuvel, Anthony P.: See—
Dahn, Carl James; and Van Den Heuvel, Anthony P., 3,669,022.
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- Van den Heuvel, Walter August; Vanhalst, Johan Eugene; Brinckman, Eric Maria; and Heugebaert, Frans Clement. Photosensitive massicot Pb(II) in physical development process. 3,684,509, 8-15-72, Cl. 96-48.000.
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- Van Den Honert, Taco H., to International Business Machines Corporation. Document handling device provided with a number of rotatable hollow drums with suction openings. 3,663,012, 5-16-72, Cl. 271-51.
- Van Den Hoven, Wilhelm Elbertus, to Lenderink & Co., N.V. Edible foam-product. 3,701,669, 10-31-72, Cl. 99-139.000.
- van den Kroonenberg, Henricus Hubertus, to N.V. Industriële Handelscombinatie. Equipment for moving step by step a structure for carrying out operations supported on a sea-bed or the like. 3,693,363, 9-26-72, Cl. 61-46.500.
- van den Ouweland, Godefridus Antonius Maria; and Peer, Hendricus Gerardus, to Lever Brothers Company. Synthesis of 2-methyl and 2-ethyl-3-hydroxy-4,5-dihydrofuran-4-one from monosaccharide 5-esters. 3,651,097, 3-21-72, Cl. 260-347.8.
- Van Den Ouweland, Godefridus Antonius Maria; and Peer, Henricus Gerardus, to Lever Brothers Company. Flavouring substances. 3,697,295, 10-10-72, Cl. 99-140.000.
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- van den Plasseche, Rudy Johan, to U.S. Philips Corporation. Amplifier circuit. 3,697,882, 10-10-72, Cl. 330-15.000.
- van der As, Herman Henricus Maria: See—
Dirne, Adrianus Petrus; Asselman, George Albert Apollonia; and van der As, Herman Henricus Maria, 3,702,533.
- Van Der Burg, Willem Jacob, to Organon Inc. Derivatives of 5,6-dihydro-phenanthridine. 3,661,914, 5-9-72, Cl. 260-287.
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- van der Feyst, Willem H., to N.V. Optische Industrie de Oude Delft. Combined luminescent screen and anti-diffusion grid, and method of making same. 3,643,092, 2-15-72, Cl. 250-80.
- Van Der Gaag, Cornelis, to N.V. Industriële Handelscombinatie. Spud lorry for a floating dredger. 3,648,998, 3-14-72, Cl. 267-150.
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Breuers, Theo Pierre Cretien, 3,655,287.
- Dols, Wilhelmus Emilius Maria, 3,673,985.
- Hilhorst, Aloysius Henricus Jacobus, 3,658,538.
- Van der Grinten, Willem J.; and Jernakoff, George, to General Electric Company. Multichannel readout mass spectrometer. 3,641,340, 2-8-72, Cl. 250-41.9.
- Van Der Heide, Hendrik, to U.S. Philips Corporation. Contact device. 3,638,151, 1-25-72, Cl. 335-153.
- Van der Heijde, Martin Clemens; and Groothoff, Adriaan Jacob, to U.S. Philips Corporation. Adjustable mounting assembly for a SeDf deflection coil. 3,688,231, 8-29-72, Cl. 335-210.000.
- van der Heyden, Arnoldus: See—
Brinkman, Hendrik Willem; and van der Heyden, Arnoldus, 3,653,920.
- van der Houwen, Derk, to DeStaat der Nederlanden, Ten Deze Ver-tegenwoordigd Door de Directeur-Generaal der Posterijen. Bipolar repeater. 3,651,265, 3-21-72, Cl. 178-70.
- Van Der Houwen, Derk, to U.S. Philips Corporation. Method of making a decision on the value of a pulsatory signal and device for carrying out this method. 3,701,947, 10-31-72, Cl. 325-321.000.
- Van Der Jagt, Anton, to Westinghouse Electric Corporation. Self-aligned gas assisted lens for laser beam apparatus. 3,685,882, 8-22-72, Cl. 350-63.000.
- Van der Kerk, Gerrit Johann Meine; and Tempel, Albert, to U.S. Philips Corporation. Method for preparing bis(alkyldiphenyl tin) sulfide. 3,641,078, 2-8-72, Cl. 260-429.7.
- Van Der Kooij, Tijmen, to N.V. Eminent. Electronic rhythm apparatus for a musical instrument. 3,649,736, 3-14-72, Cl. 84-1.03.
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- Van Der Lely, Ary; and Bom, Cornelis Johannes Gerardus. Spreading implements with means for varying and directing the flow of materials. 3,682,395, 8-8-72, Cl. 239-666.000.
- van der Lely, Cornelis. Devices for distributing material. 3,652,019, 3-28-72, Cl. 239-682.
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- Van Der Lely, Cornelis. Mowing machines. 3,654,750, 4-11-72, Cl. 56-16.2.
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- Van Der Lely, Cornelis. Trailers. 3,701,443, 10-31-72, Cl. 214-77.000.
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- Van Der Linde, Franciscus Henricus, to N.V. Industriële Handelscombinatie. Device for the control of the shift movements of a floating body. 3,643,922, 2-22-72, Cl. 254-172.
- Van Der Linde, Harold E., to Continental Oil Company. Method and apparatus for towing a submersible barge. 3,672,322, 6-27-72, Cl. 114-235.00b.
- Van Der Linde, John R.; and Fairey, Lyle W., to General Electric Company. Contactless direct current motor reversing circuit. 3,694,715, 9-26-72, Cl. 318-139.000.
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- Van Der Linde, Wim; and Smit, Jacob M., to Stamicarbon N.V. Ethylene polymerization with reduction or interruption of polymerization. 3,634,375, 1-11-72, Cl. 260-88.1.
- Van Der Linden, Peter Martinus Cornelis; and Van Gaasbeek, Hans Hubert Hakkenberg, to U.S. Philips Corporation. Transformer. 3,662,305, 5-9-72, Cl. 336-84.
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Gingras, William P.; and Van Der Linden, Roy E., 3,659,110.
- Van der Loos, Jan. Actuating handle assembly. 3,643,528, 2-22-72, Cl. 74-876.
- Van Der Loos, Jozef L. M.: See—
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- van der Maaden, Johan, to U.S. Philips Corporation. Claw mechanism for advancing a perforated record carrier along a path. 3,643,842, 2-22-72, Cl. 226-71.
- Van der Maarel, Marinus Cornelis: See—
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- van der Maat, Adrianus Theodorus: See—
Haes, Eduard Johannes; and van der Maat, Adrianus Theodorus, 3,634,559.
- Van Der Mark, Hendrik H.: See—
Deminet, Czeslaw; Patten, James W.; and Van Der Mark, Hendrik H., 3,633,267.

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- Van Der Meide, Benjamin. Material handling apparatus. 3,664,678, 5-23-72, Cl. 280-47.2.
- van der Meij, Pieter H.: See—
Wagenaar, Adriaan H.; and van der Meij, Pieter H., 3,679,582.
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- Van der Meulen, Johan: See—
Brants, Johannes Petrus; and Van der Meulen, Johan, 3,674,522.
- Van der Molen, John F.: See—
Payne, Robert A.; and Van der Molen, John F., 3,665,280.
- Van Der Molen, Leonard Hendrik, to P. J. Eindhoven's Zeilmakerij en Scheepstuigerij N.V. Container lashing. 3,647,172, 3-7-72, Cl. 248-361.
- van der Puije, Patrick David, to Northern Electric Company Limited. Telephone anti-sidetone circuit. 3,647,982, 3-7-72, Cl. 179-81.
- Van Der Roer, Humphrey Alphons Victor. Machine for printing on cups and the like. 3,695,176, 10-3-72, Cl. 101-39.000.
- Van Der Ryn, Sim: See—
Hirshen, Sanford; and Van Der Ryn, Sim, 3,676,276.
- Van Der Schoot, Jelle; and Temming, Leonardus Johannes, to Van Katwijk's Industrie N.V. Apparatus for sorting eggs or similar objects according to their weight. 3,635,339, 1-18-72, Cl. 209-121.
- Van Der Schuyt, Abraham; and Wolhuis, Kornelis Gerrit, to Koninklijke Zwavelzuurfabrieken voorheen Ketjen N.V. Process for the modification of carbon black. 3,660,133, 5-2-72, Cl. 106-307.000.
- Van Der Sluys, William: See—
O'Neill, Thomas J.; Szala, Norman M.; and Van Der Sluys, William, 3,631,817.
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- Van Der Steeg, Hendrik: See—
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- Van Der Stelt, Cornelis; and Hofman, Petrus Simon, to N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia. Ether derivatives of azadibenzocyclohepten-5-ols. 3,635,989, 1-18-72, Cl. 260-294.7.
- van der Stelt, Cornelis, to N.V. Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia. N-[2-(diphenylmethoxy)ethyl] N-methylcinnamylamine and the salts thereof. 3,666,811, 5-30-72, Cl. 260-570.
- Van Der Tas, Johannes Cornelis: See—
Meulemans, Charles Cornelis Eduard; and Van Der Tas, Johannes Cornelis, 3,685,947.
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- Wolters, Tjako Aaldrik; and Van Der Veen, Romke, 3,698,573.
- van der Veen, Romke, to N.V. Ingenieursbureau voor Systemen en Octrooien "Spanstaal". Suction dredging installation. 3,669,140, 6-13-72, Cl. 137-334.000.
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- Van Der Ven, Theodorus Johannes: See—
Daniels, Hendricus Petrus Cornelis; Van Der Ven, Theodorus Johannes; and Tate, Hans Gerard Karel, 3,670,394.
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- Van Der Voorn, Carol R.; and Willis, Roland G., to Eastman Kodak Company. Photographic silver-bleaching composition. 3,707,374, 12-26-72, Cl. 96-60.000.
- Van Der Voorn, Peter C., to Eastman Kodak Company. Thermal desensitization of photosensitive systems. 3,661,583, 5-9-72, Cl. 96-48.
- Van Der Waard, Willem F., to Koninklijke Nederlandsche Gist-en Spiritusfabriek N.V. Process for the micro-biological preparation of steroids. 3,684,656, 8-15-72, Cl. 195-51.00g.
- Van Der Wel, Hendrik: See—
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Baugh, John C.; Koenig, John E.; and Mc Cuskey, James R., 3,682,350.
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Volbach, Heinz; and Van Driessche, Oscar Julien, 3,640,507.
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Fontijn, Wilhelmus J.; and van Drunen, Korstiaan J. M., 3,641,232.
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Edwards, Evan A.; and Van Duzer, Richard H., 3,705,696.
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De Van, William T.; and Van Dyck, Ken, 3,696,969.
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Wyatt, James B.; George, Peter D.; and Van Dyck, Kenneth, 3,669,104.
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Demirdjoghlu, Sayman Fadil; and Van Dyk, Robert Maarten, 3,668,698.
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Rambosek, George M.; Allen, Michael George; and Van Dyke Tiers, George, 3,697,485.
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Savit, Joseph; Guzik, Rudolph P.; Wayne, Harry A.; Saklikar, Arvind R.; and Van Eck, Jack M., 3,669,073.
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Overmars, Henricus Gerardus Josef; Van Elven, Aris; and Noltes, Jan Gerrit, 3,641,178.
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Eaton, Jack, 3,643,991.
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Beets, Muus G. J.; and van Essen, Harm, 3,702,343.
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Baron, Robert R.; Berndt, Edward W.; Van Essen, Harold E.; and Brunsting, Edwin L., 3,636,216.
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Vrancken, August; and Van Eygen, Cyrille, 3,686,112.
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Howland, Robert W.; and Van Fleet, Richard L., 3,663,734.
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Bilbrey, Robert A.; and Van Gelder, Robert V., 3,665,603.
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Luijk, Pieter; Van Gelderen, Evert; and Schipper, Gervinus P., 3,644,248.
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Sluijter, Robert Joannes; and Van Gerwen, Petrus Josephus, 3,701,852.
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Deutsch, Herman; Steward, Edgar H.; and van Gieson, Walter D., Jr., 3,639,694.
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Van Paesschen, August Jean; Van Gossum, Lucien Janbaptist; and Priem, Jan Jozef, 3,649,336.

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Plate, Geerardus G.; and Van Hattem, Nicolaas, 3,673,879.
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Medema, Dirk; Brummayer-Schilt, Willy; and Van Helden, Robert, 3,647,908.
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Dun, Peter W.; and Van Hemert, Formijn J., 3,663,422.
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Te Velde, Ties Siebolt; and Van Heusden, Sybrandus, 3,679,496.
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Murphy, Charles F.; Webber, J. Alan; Kaiser, Gary V.; Van Heyningen, Earle M.; Wright, Ian G.; and Cooper, Robin D. G., 3,641,014.
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Pickel, Charles Richard; and van Hoek, Cornelis, 3,699,007.
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Nokes, Clarence D., 3,650,097.
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Goossens, Urbaan Paul Marguerite; Van Hoorn, Willem Lodewijk; and De Neve, Gerard Marie Jules, 3,707,645.
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Heath, Terrell L.; and Van Hooser, Larry E., 3,633,818.
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Raetzsch, Carl W.; Van Hoozer, John F.; and Cunningham, Hugh, 3,650,919.
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Kartchner, Earl M.; Van Horn, Gary R.; and Wallace, Richard A., 3,665,472.
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Van Moorselaar, Rudolf; and Van Houtenlaan, Weesp, 3,700,703.
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Dunton, John T.; and Van Houtte, Richard G., 3,653,695.
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Boer, Elmer J.; and Van Huis, Robert L., 3,707,141.
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Gartner, Todd; and Van Husen, Hendrik W., 3,691,309.
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Hall, George Thomas William; Van Ijzerloo, Jan Hendrik Sebastiaan; and Althuisen, Nicolaas A., 3,631,753.
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Fransen, Cornelis Willem; and Van Kampen, Daniel Marten, 3,657,146.
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Van Der Schoot, Jelle; and Temming, Leonardus Johannes, 3,635,339.
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Ottenheim, Johannes H.; Van Krimpen, Pieter C. A.; and Franssen, Pierre J., 3,651,023.
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Van Dyke, John William, Jr.; and Van Laecke, Margaret Jo, 3,671,530.
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Plumat, Emile; Duthoit, Jean; Toussaint, Francois; and Van Laethem, Robert, 3,632,321.
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Fehres, Hans; and Boogert, Lucas W. P., 3,696,962.
- Ragetti, Christian, 3,690,504.

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Schodl, Imre, 3,653,764.
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Ready, William C.; Puig, John E.; and Van Leeuwen, Bruce G., 3,658,972.
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Brouwer, Abraham; and Van Loom, Gerardus M. A. M., 3,687,928.
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Ludewig, Frederick A., Jr.; and Van Luik, Frank W., Jr., 3,678,487.
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Elins, Herbert S.; and Van Meter, James P., 3,698,901.
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Van Paassen, Cornelis W. C.; and Van Meurs, Hubrecht C. A., 3,644,201.
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Griffioen, Albert; Hofmeijer, Jan; Van Milligen, Paul Cornelis; Tonnissen, Jörn Yding; and Van Zanten, Jacobus Martinus, 3,665,718.
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Kotscha, Hans; Van Moock, Karel; and Kuhnt, Herbert, 3,653,548.
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Houle, James F.; and Van Norman, Gilden R., 3,694,251.
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Mayne, Neil R.; and Van Olmen, Johan, 3,681,267.
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Hedrick, Geoffrey S.; Hawkins, Frank H.; and Van Os, William, 3,662,535.
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Vanderbilt, Vern C., Jr.; Zimmer, Clarence L.; and Van Ostrand, William F., 3,691,824.
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Zeisloft, Harry C.; and Van Ostrom, David L., 3,684,047.
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Blom, Dirk; Van Overbeek, Adrianus Johannes Wilhelmus Marie; and Zwijzen, Wilhelmus Antonius Joseph Marie, 3,678,404.
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Van de Loock, Guido; and Van Overbeke, Roeland, 3,702,093.
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Timmerman, Daniel Maurice; Verhille, Karel Eugene; and Van Paesschen, August Jean, 3,681,070.
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Vandeputte, Camille A.; and Van Pee, Paul Desire, 3,650,741.
- Vrancken, Marcel Nicolas; Vanreusel, Gerard Laurens; Van Pee, Paul Desire; and De Laet, Jules Maria, 3,672,892.
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Rogers, Waldo I.; and Van Pelt, Denis L., 3,686,479.
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Van Doorselaer, Marcel Karel; Benoy, Gaston Jacob; Van Vugt, Jaak Pieter; and Van Poucke, Raphael Karel, 3,658,546.
- Van Raalte, John A.: *See—*
Gorkiewicz, Walter Joseph; and Van Raalte, John A., 3,704,936.
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Van Gorp, Jacobus Antonius; and Van Ree, Pieter Jurianus, 3,652,605.
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Beaton, John M.; Van Rheenen, Verlan H.; and Parikh, Jekishan R., 3,679,715.
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Van Gasselt, Max L. G.; Van Rijs, Pieter A.; and Basting, Willem J., 3,698,430.
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Casey, Horace Craig, Jr.; and van Roosbroeck, Willy Werner, 3,697,834.
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- Van Run, Adrianus Martinus Jacobus Gerardus: *See—*
Carpay, Franciscus Marinus Anna; and Van Run, Adrianus Martinus Jacobus Gerardus, 3,694,193.
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Suvanto, Antti; and van Santen, Aart, 3,697,375.
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Hettterscheid, Wilhelmus Theodorus Hendrikus; and van Schaik, Gerrit Pieter Johannes, 3,689,797.
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Mattia, Michael; and Van Sciver, Herbert D., II, 3,671,406.
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Lu, Maoyeh; and Van Slooten, Nico J., 3,680,843.
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Murray, Donald R.; Van Soest, Cornelius J. M.; and Moulson, Donald C., 3,690,412.
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Zwiep, Cornelis Willem; and Van Steen, Bernardus Ignatius Maria, 3,679,849.
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Brixius, Jacob K.; Takacs, Lawrence M.; and Van Sweringen, James P., 3,698,161.
- Van Tassel, James H.: *See—*
Kilby, Jack S.; and Van Tassel, James H., 3,688,396.
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Rausch, John J.; and Van Thyne, Ray J., 3,644,153.
- Rausch, John J.; and Van Thyne, Ray J., 3,701,655.
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Montagne, Johannes Th.W.; and Van Tongeren, Willem A., 3,663,707.
- Van Tongerlo, Eric H.: *See—*
Hantusch, Gerald H.; Vincent, David A.; and Van Tongerlo, Eric H., 3,675,089.
- Van Uffelen, Catherinus: *See—*
Horn, Cornelis Jacob; Kats, Mindert; Marcelinus, Sigibertus; and Van Uffelen, Catherinus, 3,691,934.
- Van Uitert, Le Grand Gerard: *See—*
Bobeck, Andrew H.; and Van Uitert, Le Grand Gerard, 3,643,238.
- Bobeck, Andrew Henry; Smith, David Herbert; Spencer, Edward Guerrant; and Van Uitert, Le Grand Gerard, 3,646,529.
- Bobeck, Andrew Henry; Sherwood, Richard Curry; and Van Uitert, Le Grand Gerard, 3,665,427.
- Bonner, William Adam; Singh, Shobha; and Van Uitert, Le Grand Gerard, 3,679,907.
- Geusic, Joseph E.; and Van Uitert, Le Grand Gerard, 3,634,614.

- Geusic, Joseph Edward; Ostermayer, Frederick William, Jr.; and Van Uitert, Le Grand Gerard, 3,654,463.
- Grodziewicz, William H.; Singh, Shobha; and Van Uitert, Le Grand Gerard, 3,659,136.
- Grodziewicz, William H.; and Van Uitert, Le Grand Gerard, 3,667,921.
- Gyorgy, Ernst M.; Sherwood, Richard C.; and Van Uitert, Le Grand Gerard, 3,648,260.
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- Pinnow, Douglas A.; and Van Uitert, Le Grand Gerard, 3,699,478.
- Pinnow, Douglas Arthur; and Van Uitert, Le Grand Gerard, 3,652,956.
- Pinnow, Douglas Arthur; and Van Uitert, Le Grand Gerard, 3,691,482.
- Singh, Shobha; and Van Uitert, Le Grand Gerard, 3,676,695.
- Smith, David H.; and Van Uitert, Le Grand Gerard, 3,638,207.
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- Van Veelen, George Frans: *See—*
- Himmelmann, Wolfgang; Schranz, Karl-Wilhelm; Sobel, Johannes; and Van Veelen, George Frans, 3,676,143.
- Van Veldhoven, Gerardus Antonius Wilhelmus: *See—*
- Eulenbergh, Hannspeter; and Van Veldhoven, Gerardus Antonius Wilhelmus, 3,676,733.
- Van Veldhuizen, John. Airplane with air cushion landing gear. 3,652,038, 3-28-72, Cl. 244-100.
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- Geerdes, Dirk J.; and Van Vessem, Cornelis J., 3,680,362.
- Van Vessem, George E.: *See—*
- Stokes, Joseph F.; and Van Vessem, George E., 3,676,774.
- Van Vlaanderen Machine Company: *See—*
- Gaghan, Stephen B., 3,638,292.
- Van Vleet, John M., to Balax, Inc. Reusable swaging tap. 3,656,197, 4-18-72, Cl. 910-152.
- Van Vliet, George William: *See—*
- O'Connor, Ward F.; and Van Vliet, George William, 3,652,942.
- Van Vliet, Raymond A.: *See—*
- Fairfield, Louis R., Jr.; Van Vliet, Raymond A.; and McLaughlan, Thomas A., 3,674,065.
- Van Vliet, William George: *See—*
- O'Connor, Ward F.; and Van Vliet, William George, 3,699,989.
- Van Vonderen, Jacobus: *See—*
- Amesbury, Maurice G.; and Van Vonderen, Jacobus, 3,680,461.
- van Vucht, Johannes Hendrikus Nicolaas: *See—*
- Donkersloot, Hendrik Cornelis; and van Vucht, Johannes Hendrikus Nicolaas, 3,681,151.
- Van Vugt, Jaak Pieter: *See—*
- Van Doorselaer, Marcel Karel; Benoy, Gaston Jacob; Van Vugt, Jaak Pieter; and Van Poucke, Raphael Karel, 3,658,546.
- Van Wagenen, Normal L.; and Lamph, Ara Norman. Kidney valve for fluid motor and other uses. 3,702,143, 11-7-72, Cl. 137-625.210.
- Van Wagner, Edward M.: *See—*
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- Van Wassenhove, Sarfien V. Rear view mirror attachment. 3,671,110, 6-20-72, Cl. 350-307.000.
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- Schuurs, Antonius Hermanus Wilhelmus Maria; and Van Weemen, Bauke Klaus, 3,654,090.
- Van Weeren, Pieter A.: *See—*
- Dun, Peter W.; and Van Weeren, Pieter A., 3,682,813.
- Van Weeren, Pieter Aldert: *See—*
- Van Klinken, Jakob; Kouwenhoven, Herman Wouter; and Van Weeren, Pieter Aldert, 3,697,444.
- Van Weert, Gezinus, to Falcon bridge Nickel Mines Limited. Treatment of metal chlorides in fluidized beds. 3,642,441, 2-15-72, Cl. 23-183.
- Van Werd, Johannes Hendricus Franciscus: *See—*
- Van Alphen, Gerard Herman; Jongeneelen, John; and Van Werd, Johannes Hendricus Franciscus, 3,646,582.
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- Soudyn, Willem; and Van Wijngaarden, Ineke, 3,646,207.
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- Fickenwirth, Frederick I.; and Van Wyk, Jan W., 3,700,297.
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- Griffioen, Albert; Hofmeijer, Jan; Van Milligen, Paul Cornelis; Tonnissen, Jörn Yding; and Van Zanten, Jacobus Martinus, 3,665,718.
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- Van Reisen, George Leonardus Johannes, 3,704,545.
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- Bauer, Ronald; Chung, Harold; Cannell, Lawrence George; Keim, Wilhelm; and Van Zwet, Henry, 3,637,636.
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- Van Zyl, Robert M.: *See—*
- Class, Charles A., Jr.; Van Zyl, Robert M.; and Sedberry, Donald C., 3,644,980.
- Van-Air Incorporated: *See—*
- Becker, Philip S., 3,653,181.
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- Casson, Edward A., Jr.; Gaul, Albro T.; Langlais, Eugene L.; Shadlen, Gerald; and Vanaver, Eugene L., 3,658,662.
- VanBesauw, Jan Frans: *See—*
- Rasschaert, Antoine Theofiel; Benoy, Gaston Jacob; and VanBesauw, Jan Frans, 3,637,787.
- Vancamp, Raymond M.: *See—*

- Bohl, Lester E.; and Vancamp, Raymond M., 3,642,918.
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- Ivey, Curtis L.; Vance, Alvin M.; and Eisele, Hermann, 3,688,167.
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- Vance, Lawrence T., to Engineered Products, Inc. Building wall assembly. 3,678,625, 7-25-72, Cl. 49-381.000.
- Vance, Marion I.: *See—*
- Kappelman, Benjamin O.; and Vance, Marion I., 3,685,263.
- Kappelman, Benjamin Oscar; and Vance, Marion I., 3,645,075.
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- Vancil, Donald Otis: *See—*
- Harrison, Maurice Clark; and Vancil, Donald Otis, 3,704,092.
- Vancsa, Gyorgy I.: *See—*
- Zuerblis, Joseph R.; and Vancsa, Gyorgy I., 3,659,048.
- Vancsa, Gyorgy I., to Westinghouse Electric Corporation. Apparatus and method for transmitting intelligence with stepped waves. 3,652,794, 3-28-72, Cl. 178-67.
- VanDale Corporation: *See—*
- Buschbom, Floyd E., 3,651,960.
- Vande Castle, Jerome J., to FMC Corporation. Rotary cutting head for wrapping machine. 3,641,857, 2-15-72, Cl. 83-322.
- Vande Wege, John R., to Automatic Electric Laboratories, Inc. Busy period marker speed-up system. 3,646,275, 2-29-72, Cl. 179-18.
- Vandegraaf, Johannes J.: *See—*
- Latker, Alex; and Vandegraaf, Johannes J., 3,644,831.
- Vanden Berg, Gary E.: *See—*
- Nelson, Norman A.; and Vanden Berg, Gary E., 3,692,895.
- Vanden Heuvel, Marinus T.: *See—*
- Fortin, Michael J.; Latchford, Joseph T.; and Vanden Heuvel, Marinus T., 3,635,612.
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- Pollet, Robert Joseph; and Vandenbergh, Antoon Leon, 3,679,423.
- Willems, Jozef Frans; and Vandenbergh, Antoon Leon, 3,650,749.
- Willems, Jozef Frans; Berendsen, Jules Robert; Pollet, Robert Joseph; and Vandenbergh, Antoon Leon, 3,689,273.
- Vandenbergh, Henri: *See—*
- Warszawski, Bernard; and Vandenbergh, Henri, 3,690,954.
- Vandenbroucke, Alfred Jiles: *See—*
- Camboulives, Andre Alphonse Mederic Leon; Delonge, Jean-Claude Lucien; Cesson, Theophile Francois Le Maout; and Vandenbroucke, Alfred Jiles, 3,687,222.
- Vandeput, Andre: *See—*
- Meredith, William Henry Palmer; and Vandeput, Andre, 3,642,370.
- Vandeputte, Camille A.: *See—*
- Vanreusel, Gerard L.; and Vandeputte, Camille A., 3,637,387.
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- Hofman, Emiel Alexander; and Vandeputte, Camille Angelina, 3,684,508.
- Liebe, Werner; Von Rintelen, Harald; Vanreusel, Gerard Laurens; and Vandeputte, Camille Angelina, 3,645,731.
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- Vander Mey, John E.: *See—*
- Page, Walter; Schevey, William R.; and Vander Mey, John E., 3,655,533.
- Vander Ploeg, John Herman; and Weener, Earl, to Chemetron Corporation. Process for alkylating perylene pigments. 3,673,192, 6-27-72, Cl. 260-281.000.
- Vander Wall, Eugene M.: *See—*
- Lucas, James M.; Suder, Jack K.; and Vander Wall, Eugene M., 3,696,616.
- Vander Zanden, Walter J. Small seed attachment for threshers. 3,651,814, 3-28-72, Cl. 130-27.
- Vanderberg, Lawrence J.: *See—*
- Jania, Zbigniew J.; and Vanderberg, Lawrence J., 3,671,081.
- Radin, Bernard G.; and Vanderberg, Lawrence J., 3,668,630.
- Vanderbilt, Byron M.; and Fasnacht, James J., said Vanderbilt assor. to Ezzo Research and Engineering Company and said Fasnacht assor. to PPG Industries, Inc. Glass fibers sized with a composition comprising a vinyllic aromatic-diolefin copolymer and a hydriylizable silane. 3,674,542, 7-4-72, Cl. 117-72.000.
- Vanderbilt, R. T., Company, Inc.: *See—*
- Carlson, Bernard C.; and Hutchins, Francis E., 3,671,634.
- Craig, William L., 3,689,219.
- DeHoff, Ronald Lee, 3,697,462.
- Hill, Harry E., 3,644,408.
- Robinson, Robert E.; and De Hoff, Ronald L., 3,647,701.
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- Vanderhagen, Lawrence P., to Uniroyal, Inc. Molding system. 3,642,392, 2-15-72, Cl. 425-4.
- Vanderhei, Harold S.: *See—*
- Spearin, Walter E.; and Vanderhei, Harold S., 3,676,184.
- Vanderhelst, Peter W., to Robotron Corporation. Quotient circuit. 3,654,424, 4-4-72, Cl. 219-110.
- Vanderhelst, Peter W., to Robotron Corporation. End weld control circuit. 3,662,146, 5-9-72, Cl. 219-110.
- Vanderhoef, John P.: *See—*
- Bell, Randall P.; and Vanderhoef, John P., 3,673,724.
- Lazar, Burton A.; Bell, Randall P.; and Vanderhoef, John P., 3,673,723.
- Vanderhoff, John W.: *See—*
- Moore, Carl; Gibbs, Dale S.; and Vanderhoff, John W., 3,639,148.
- Vanderhoof, Roy E.: *See—*
- Casteel, Charles P.; and Vanderhoof, Roy E., 3,638,785.
- Vanderhurst, William L.; and Kemp, Sidney D. Apparatus for tensioning tendons. 3,647,184, 3-7-72, Cl. 254-29.
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- Vanderpool, Clarence D.: *See—*

- Chiola, Vincent; Kamin, George J.; and Vanderpool, Clarence D., 3,653,813.
- Vandersall, Howard L.: *See—*
King, Thomas M.; and Vandersall, Howard L., 3,654,151.
King, Thomas M.; and Vandersall, Howard L., 3,657,134.
Sears, Paul G.; and Vandersall, Howard L., 3,645,675.
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- Vanderveen, John W.: *See—*
Stewart, William S.; and Vanderveen, John W., 3,645,863.
- Vanderveen, John W.; Cheng, Paul J.; Mills, K. Louis, Jr.; Venable, Charles R., Jr.; and Johnson, Paul H., to Phillips Petroleum Company. Manufacture of carbon black. 3,676,070, 7-11-72, Cl. 23-209.400.
- Vanderveen, John W., to Phillips Petroleum Company. Nozzle structure and arrangement for producing high octane alkylate. 3,696,168, 10-3-72, Cl. 260-683.580.
- Vanderveer, Fredric B., to Leigh Products, Inc. Chain lock with signal for door. 3,705,421, 12-5-72, Cl. 340-274.000.
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- Vandervell Products Limited: *See—*
Clark, Martin Ronald Newton, 3,656,379.
- Vanderwerff, William D.; and Peterson, Henry J., to Sun Oil Company. Catalytic process of no oxidation of dialkyl naphthalenes. 3,637,830, 1-25-72, Cl. 260-524.
- Vanderwerff, William D., to Sun Oil Company. Process for the continuous oxidation of methylbenzene hydrocarbons by nitrogen dioxide. 3,646,123, 2-29-72, Cl. 260-524.
- VanDest, Jean Claude, to Massey-Ferguson Services N.V. Tractor controlled trailer brake. 3,690,734, 9-12-72, Cl. 303-7.000.
- Vandevord, George E.: *See—*
Farrington, Dale A.; and Vandevord, George E., 3,703,122.
- Vandewalle, Jan Joseph Maurice: *See—*
Reimlinger, Hans K.; and Vandewalle, Jan Joseph Maurice, 3,639,406.
- Vandeweyer, Romain Gustave Edgard, "Raffinerie tiremontoise". Improvements relating to the treatment of sugar factory molasses. 3,687,727, 8-29-72, Cl. 127-47.000.
- Vando, Yasuo: *See—*
Watanabe, Tamotsu; Vando, Yasuo; and Tsurugi, Kozaburo, 3,693,882.
- Vane, Arthur B.: *See—*
Dunn, Vernon E.; and Vane, Arthur B., 3,668,553.
- Vanegas, Guillermo J.: *See—*
Parkison, Richard G.; and Vanegas, Guillermo J., 3,642,213.
- Vanek, Stanley Donald: *See—*
Nicholson, Thomas W.; Jorgensen, Ray B.; and Vanek, Stanley Donald, 3,661,192.
- Vaneldik, Jan Frederik; Wilson, Ronald Ian; Kampjes, Gerrie Richard; and Lavender, William James, to Gordon, Sherritt Mines, Limited. Electrostatic precipitator and gas sampling system. 3,705,478, 12-12-72, Cl. 55-120.000.
- Vangraafeiland, Wesley H., to Eastman Kodak Company. Modified triplets with reduced secondary spectrum. 3,694,058, 9-26-72, Cl. 350-227.000.
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Herolzer, Ralph H., 3,687,330.
Herolzer, Ralph H., 3,696,966.
Herolzer, Ralph H., 3,702,599.
- Vanhalst, Johan Eugene: *See—*
Brinckman, Eric Maria; Van Den Heuvel, Walter August; Vanhalst, Johan Eugene; and Heugebaert, Frans Clement, 3,700,452.
- Van den Heuvel, Walter August; Vanhalst, Johan Eugene; Brinckman, Eric Maria; and Heugebaert, Frans Clement, 3,684,509.
- Van Den Heuvel, Walter August; Vanhalst, Johan Eugene; and Brinckman, Eric Maria, 3,690,886.
- VanHeerden, Philip, in his Capacity of minister of Water Development for the Government of Rhodesia: *See—*
Anderson, James Mitchell, 3,707,000.
- Vanheertum, Johannes Joseph; Poot, Albert Lucien; Willems, Jozef Frans; and Janssens, Wilhelmus, to Gevaert-Agfa N.V. Recording process using quinolin-2-one or quinolin-4-one organic photoconductive substances. 3,660,084, 5-2-72, Cl. 96-1.6.
- Vanheertum, Johannes Josephus: *See—*
Tavernier, Bernard Hippolyte; De Meyer, Alfons Jozef; and Vanheertum, Johannes Josephus, 3,642,470.
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- Vanherwegen, Ferdinand Joseph: *See—*
Duchateau, Georges Francois; and Vanherwegen, Ferdinand Joseph, 3,660,042.
- Vanhulle, Glenn J.: *See—*
Dunning, Herbert N.; Strommer, Palmer K.; and Vanhulle, Glenn J., 3,707,380.
- Vanier, Vance R., to AFA Corporation, The. Liquid dispensing apparatus. 3,685,739, 8-22-72, Cl. 239-333.000.
- Vanik, Milton C.: *See—*
Hurley, Forrest R.; Tecotzky, Melvin; and Vanik, Milton C., 3,691,087.
- Vanin, Vladimir Lvovich: *See—*
Polyakov, Georgy Filippovich; Vanin, Vladimir Lvovich; and Kamardin, Vladimir Alexandrovich, 3,655,209.
- Vanlerberghe, Guy: *See—*
Kalopissis, Gregoire; and Vanlerberghe, Guy, 3,666,671.
Kalopissis, Gregoire; and Vanlerberghe, Guy, 3,674,902.
Lachamp, Felix; Viout, Andre; and Vanlerberghe, Guy, 3,642,980.
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- Vanmansart, Louis J.: *See—*
Keith, Carl D.; Mooney, John J.; and Vanmansart, Louis J., 3,692,497.
- Vanmeurs, Peter: *See—*
Whitten, Derrill Gene; and Vanmeurs, Peter, 3,705,625.
- vanMullekom, Hubert Peter: *See—*
Geven, Pieter Theodorus; and vanMullekom, Hubert Peter, 3,645,300.
- Vann Industries, Inc.: *See—*
Jones, Donald E., 3,669,428.
Wise, David F.; Tyndall, R. B.; and Jones, Donald E., 3,701,240.
- Vann, Roy R. Mathematical game apparatus. 3,687,456, 8-29-72, Cl. 273-161.000.
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- VanNorman, Gilden R.: *See—*
Houle, James F.; and VanNorman, Gilden R., 3,634,087.
- Vannucci, Robert J.: *See—*
Lahrson, Allan E.; Hublou, Frank E.; Zuchowski, Richard C.; Vannucci, Robert J.; Lenox, Timothy L.; and Geary, David S., 3,633,176.
- Vanoostveen, Adrian G.: *See—*
Stark, John E.; and Vanoostveen, Adrian G., 3,696,186.
- Vanorsdel, John R.: *See—*
McIntire, Hoy C.; and Vanorsdel, John R., 3,671,228.
- Vanotti, Guy: *See—*
Sachs, Frederic; and Vanotti, Guy, 3,667,549.
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- Vanreusel, Gerard Laurens: *See—*
Liebe, Werner; Von Rintelen, Harald; Vanreusel, Gerard Laurens; and Vandeputte, Camille Angelina, 3,645,731.
Vrancken, Marcel Nicolas; Vanreusel, Gerard Laurens; Van Pee, Paul Desire; and De Laet, Jules Maria, 3,672,892.
- Vanslette, Robert A.: *See—*
Karas, Edwin L.; Lee, David S.; and Vanslette, Robert A., 3,681,998.
- Vanterpool, Alan: *See—*
Smith, Russell G.; and Vanterpool, Alan, 3,634,522.
- Vantrex: *See—*
Hanna, Paul R., 3,645,052.
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Duff, Dan P.; and VanVelzor, Joseph A., 3,650,707.
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- vanZon, Cornelis, to Industriële Onderneming Wavin N.V. Tubular connecting piece for helically grooved tubes. 3,652,109, 3-28-72, Cl. 285-176.
- Vaponics, Inc.: *See—*
Smith, Verity C., 3,660,246.
- Vapor Corporation: *See—*
Bridgeman, Richard C.; and Gajewski, Wieslaw, 3,664,177.
Gajewski, Wieslaw, 3,696,360.

- Kercher, Robert L.; and Telfer, Dugald J., 3,653,796.
- Maher, Frank A., 3,639,963.
- Miles, Marshall, 3,678,386.
- Patterson, Gordon I.; and Telfer, Dugald J., 3,697,746.
- Stikkers, Alexander P.; Elzy, Albert E.; and Czyl, Joseph L., 3,692,016.
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- Varaney, John A. Fishing lure. 3,641,698, 2-15-72, Cl. 43-42.48.
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Bower, Kenneth W.; and Jennings, Lewis F., 3,702,417.
- Vardaman, Hunter W., to Mekatron Corporation. Spiral actuated adjustable jaw wrench. 3,673,896, 7-4-72, Cl. 81-165.000.
- Vardell, Joseph R. Track laying accessory for a tractor. 3,664,449, 5-23-72, Cl. 180-94.0c.
- Vardheim, Steiner: *See—*
Reinhall, Rolf Bertil; and Vardheim, Steiner, 3,689,347.
- Varel Manufacturing Company: *See—*
Bronson, Charles L., 3,663,073.
- Varga, John: *See—*
Spinosa, Dom; and Varga, John, 3,687,296.
- Varga, John Maximilian Jules, to Carding Specialists (Canada) Limited. Apparatus for controlling the variation of silver delivered from a carding machine. 3,644,964, 2-29-72, Cl. 19-240.
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Pelle, Jozsef; and Varga, Laszlo, 3,689,018.
- Varga, Leroy M.; and Voorhees, Thomas L., to Rockaway Corporation. Prong forming and driving mechanism. 3,702,146, 11-7-72, Cl. 140-93.00c.
- Varga, Otto Herman; and Taylor, Leonard, to Resilient Grip Limited. Rail anchorages. 3,653,591, 4-4-72, Cl. 238-308.
- Varga, Richard S., to Goodrich, B. F. Company, The. Method of making a jack. 3,704,189, 11-28-72, Cl. 156-69.000.
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Beuk, Ljubomir; and Vargas, Robert, 3,636,434.
- Vargas, Robert J., to Motorola, Inc. Initiation circuit for a capacitor discharge ignition system. 3,699,940, 10-24-72, Cl. 123-148.00e.
- Vargiu, Silvio: *See—*
Paleologo, Teo; Vargiu, Silvio; and Pezzoli, Silvestro, 3,632,537.
Paleologo, Teo; and Vargiu, Silvio, 3,639,504.
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- Vargo, Edward J., to TRW Inc. Preparation of clean metal surfaces for diffusion bonding. 3,632,410, 1-4-72, Cl. 117-114.
- Vargo, Louis M. Cigarette holder. 3,651,818, 3-28-72, Cl. 131-257.
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Stanton, Stephen; and Varholy, Edward, 3,664,564.
- Vari-Typer Corporation: *See—*
Hecker, Roland F.; and Goench, Mahmut I., 3,643,558.
- Varian Adco: *See—*
Anstin, Wayne D., 3,697,680.
- Varian Associates: *See—*
Ackley, James W., 3,649,512.
Antypas, George A., 3,696,262.
Balteschwieler, John D., 3,677,642.
Bell, Ronald L., 3,644,770.
Benz, Hanspeter, 3,674,998.
Brand, William J., 3,662,566.
Bruce, Harold William; and Sandvoss, Werner E., 3,661,759.
Dahlquist, John A.; and Marlor, Guy A., 3,649,261.
Dahlquist, John A.; Marlor, Guy A.; and Whitehorn, Richard M., 3,684,365.
Duchmann, Charles A.; and Miram, George V., 3,636,400.
Dunn, Vernon E.; and Vane, Arthur B., 3,668,553.
Ernst, Richard R., 3,681,680.
Growald, Bert; Dahlquist, John A.; and Marlor, Guy A., 3,674,711.
Hansen, Stuart C., 3,701,959.
Harra, David J., 3,662,154.
Heer, John, 3,706,128.
- Huber, Ulrich, 3,681,683.
- Jackson, Samuel Robert, 3,666,980.
- James, Bertram G., 3,668,460.
- James, Bertram G.; Harman, Ward A.; and Ruetz, John A., 3,684,913.
- Jones, Robert C.; and Siebert, William, Jr., 3,706,099.
- Kabler, Donald J., 3,638,401.
- Lansdowne, Kenneth H., 3,668,535.
- Leidigh, William J., 3,641,389.
- Levin, Nathan D.; Niewold, Andreas; and Niklas, Wilfrid F., 3,683,194.
- Levy, Raymond L., 3,635,195.
- Levy, Raymond L., 3,635,556.
- Lien, Erling L., 3,668,544.
- Littlejohn, Duane P., 3,649,199.
- Love, Kenneth E., 3,662,139.
- Marshall, Edward W.; and Sloan, John D., 3,693,181.
- McRae, Russell C., 3,644,768.
- McRae, Russell C., 3,657,588.
- Miran, George V.; and Kuehne, Gerhard B., 3,706,002.
- Nelson, Richard B., 3,633,131.
- Richter, John F., 3,633,060.
- Robertson, David D.; and Wheeler, William R., 3,666,377.
- Rooney, John P., 3,634,783.
- Sayer, William H., Jr., 3,705,283.
- Scott, Allan W.; and Hiramatsu, Yukio, 3,654,509.
- Spicer, William E., 3,693,018.
- Symons, Robert S.; Staprans, Armand; and Butwell, Robert J., 3,668,459.
- Taylor, Norman J.; Mann, Joseph K.; and Atwood, Allen W., 3,686,501.
- vanLoo, Coenraad, 3,656,545.
- White, Jerome R., 3,665,140.
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Glance, Bernard S., 3,702,413.
Hentschel, John E., 3,646,389.
Hentschel, John E., 3,679,993.
- Miehle, James A.; Pratt, David S.; and Rees, Robert M., 3,675,204.
- Noble, Lowell A., 3,640,597.
- Varian Mat GmbH: *See—*
Brunnee, Kurt; and Kramer, Feodor Otto, 3,655,963.
- Varifab, Inc.: *See—*
Seibury, William A., III, 3,650,206.
- Varispace Industries, Inc.: *See—*
Ryswick, Edward L., 3,680,414.
- Varityper Corporation: *See—*
Pitman, Richard W., 3,669,236.
- Varker, Alan E.: *See—*
Dermody, William J.; and Varker, Alan E., 3,700,628.
- Varlas, Mike, to General Dynamics Corporation. High modulus graphite fiber reinforced hybrid laminates. 3,649,435, 3-14-72, Cl. 161-156.
- Varlonga, Giovanni. Metal forms having a particular shape for realizing suspended floors. 3,674,232, 7-4-72, Cl. 249-23.000.
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- Varnell, Dexter L. Pile driving apparatus. 3,638,738, 2-1-72, Cl. 173-90.
- Varner, George C., to Deering Milliken Research Corporation. Method for producing endless reinforcements for vulcanized pneumatic tires. 3,674,079, 7-4-72, Cl. 152-361.000.
- Varner, Lawrence C., Jr.: *See—*
Enlow, Dale S.; and Varner, Lawrence C., Jr., 3,647,608.
- Varner, Lawrence P.: *See—*
Hicks, David G.; and Varner, Lawrence P., 3,675,493.
- Varnerin, Lawrence J., Jr.: *See—*
Hackett, William H., Jr.; Schafetter, Donald L.; and Varnerin, Lawrence J., Jr., 3,669,767.
- Varney, Glenn E.: *See—*
Nooker, Eugene L.; Thompson, Luther G.; Varney, Glenn E.; and Dietz, Victor J., 3,690,257.
- Varney, Justin A.: *See—*
Metzner, Robert; Dashew, Stanley A.; and Varney, Justin A., 3,648,617.
- Varnum, Gerald Frank: *See—*
Buls, Melvin Lawrence; and Varnum, Gerald Frank, 3,692,054.
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Boyer, Barton H., III, 3,644,039.
Jarzembksi, William B., 3,688,580.
- Varon, Albert S.; and Siegal, Burton L., to Crown Metal Manufacturing Co. Hang rail construction and bracket therefor. 3,685,662, 8-22-72, Cl. 211-105.100.
- Varouxis, Theodore A. Air cylinder with self-contained pneumatic piston return. 3,645,170, 2-29-72, Cl. 91-399.
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- Varrati, Anthony J., to Universal Refractories Corporation. Transferring a hot top liner insert from a forming assembly to a dryer by a transfer table and a rollover table. 3,682,770, 8-8-72, Cl. 162-399,000.
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Shaler, David; and Varrichio, Ralph A., 3,664,299.
- Varrin, Andre J.; McCarter, William L.; and Geisler, Henry O. Wedge-slide latch. 3,667,793, 6-6-72, Cl. 292-216,000.
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- Varshavsky, Semen Lvovich: *See—*
Tomilov, Andrei Petrovich; Klimov, Vladimir Alexeevich; and Varshavsky, Semen Lvovich, 3,661,739.
- Varta Aktiengesellschaft: *See—*
Brinkmann, Jurgen; and Gehrke, Wieland, 3,654,426.
Grunc, Horst; and Winsel, August, 3,668,011.
Jung, Margarete; and Von Doehren, Hans H., 3,668,012.
Lindenberger, Hans-Georg, 3,663,305.
Lindenberger, Hans-Georg; and Seyberlich, Rolf, 3,689,322.
Sprengel, Dietrich, 3,666,562.
Sucher, Josef; and Segieth, Oswald, 3,665,575.
Winsel, August; and Schwartz, Hans-Jurgen, 3,649,467.
Winsel, August, 3,660,166.
Winsel, August, 3,666,405.
- Varta GmbH: *See—*
Alf, Fritz; and Brill, Wolfgang, 3,657,019.
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- Vartanian, Richard D., to Ford Motor Company. Carburetor fuel pump pressure actuated spark timing control system. 3,646,920, 3-7-72, Cl. 123-117.
- Vartanian, Richard D., to Ford Motor Company. Engine spark timing system. 3,678,907, 7-25-72, Cl. 123-117.00a.
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- Vartia, Karl O. Speed controlled wheel balance indicator. 3,662,705, 5-16-72, Cl. 116-114.
- Vartiainen, Osmo O., to Outokumpu Oy. Method for the recovery of heat from hot granular material. 3,677,327, 7-18-72, Cl. 165-1.
- Varty, William M.: *See—*
Zerb, Donald L.; and Varty, William M., 3,660,990.
- Varveri, Fannie S.; Julia, Robert J.; and Hoover, Merwin Frederick, to Calgon Corporation. Polymaphoteric polymeric retention aids. 3,639,208, 2-1-72, Cl. 162-168.
- Vary, Willard E. Color restoration of unilayer and duolayer color photographic elements. 3,643,569, 2-22-72, Cl. 95-12.2.
- Vasas, Martin M.; White, John C.; and Alexander, Paul M., to Bridgeport Metal Goods Manufacturing Company, The. Cosmetic applicator. 3,662,769, 5-16-72, Cl. 132-88.7.
- Vaschetti, Amos: *See—*
Colombo, Umberto; Scacciati, Giovanni; Sironi, Giuseppe; and Vaschetti, Amos, 3,649,186.
- Vasco Industries Corporation: *See—*
Inklaar, Petrus Adam, 3,681,095.
- Vasek, Anthony G., to Bendix Corporation, The. Pressure responsive transducer. 3,698,248, 10-17-72, Cl. 73-398.0ar.
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Green, Charles J., 3,650,214.
- Vasilantone, Michael. Ink distributing means in endless screen printing machines. 3,688,692, 9-5-72, Cl. 101-122,000.
- Vasile, Carmine F., to Hazeltine Corporation. Two port magnetoelectric delay line. 3,670,271, 6-13-72, Cl. 333-30,000.
- Vasile, Gheorghe: *See—*
Schwartz, Robert; Manolache, Constantin; Tannenbaum, Marcel; Vasile, Gheorghe; Rey, Vasile; Sima, Constantin; and Cambureau, Aurel, 3,692,277.
- Vasilenko, Evstafy Andreevich: *See—*
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Burtsev, Pavel Semenovich; Yanchevsky, Kazimir Stanislavovich; Savilev, Leonid Ivanovich; Bolotin, Evgeny oisevich; and Khaidurov, Leonid Konstantinovich, 3,656,810.
- Vasilenko, Sergei Iosifovich: *See—*
Zhukov, Gennady Konstantinovich; Krylov, Nikolai Ivanovich; Lebedev, Vyacheslav Ivanovich; Popov, Boris Vasilievich; Stonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Vasilenko, Sergei Iosifovich; Kondratiev, Valentin Vasilievich; and Krokhin, Neste Ivanovich, 3,633,397.
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- Vasilkovsky, Lev Fedorovich; Sjusjuk, Vladimir Efimovich; Abrosimov, Nikoloi Nikitovich; Geidebrekhov, Georgy Andreevich; Lyashenko, Vsevolod Andreevich; and Podmogilny, Vladimir Ivanovich. Apparatus for compacting a moulding mixture. 3,659,642, 5-2-72, Cl. 164-169.
- Vasin, Alexandr Ivanovich: *See—*
Erylkin, Ivan Ivanovich; Vasin, Alexandr Ivanovich; Korotkov, Mikhail Mikhailovich; Maximov, Vadim Yakovlevich; Matveev, Ivan Ivanovich; Kadyshchev, Vladimir Alexandrovich; Volkov, Valentin Vladimirovich; Fisel, Vladlen Borisovich; Bulatkin, Vladimir Dmitriyevich; Malekhanov, Igor Evgenievich; and Suldin, Stanislav Nikolaevich, 3,693,570.
- Vaskov Industries, Inc.: *See—*
Hughes, Robert L.; and Rouse, John E., 3,704,692.
- Vasku, Louis J. Control circuitry for an advertising display. 3,696,358, 10-3-72, Cl. 340-221,000.
- Vass, Edward J.; Braun, Richard H.; and Platt, Conrad R., to United States of America, Air Force. Liquid propellant cartridge. 3,690,255, 9-12-72, Cl. 102-39,000.
- Vass, Oscar R., to United States of America, Navy. Expanding deep water sound source vehicle. 3,706,964, 12-19-72, Cl. 340-5,00r.
- Vassar, Clyde W., to Abbey, Nelson D. Method for testing welded seam pipes in a tube mill. 3,705,458, 12-12-72, Cl. 29-477,700.
- Vassar, Jack K.; and Henigman, Boby J. Hitching assembly. 3,650,365, 3-21-72, Cl. 198-7.
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Vasselin, John F., 3,658,453.
- Vasselin, John F.; deceased (by Vasselin, Herbert F.; administrator), to Fletcher, H. E., Co. Method and apparatus for flame working mineral bodies. 3,658,453, 4-25-72, Cl. 431-158.
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- Vassil, Theo N.; and Pearson, Howard, to American District Telegraph Company. Method and apparatus for suppressing spurious alarms in an electrical protection system. 3,634,839, 1-11-72, Cl. 340-237.
- Vassilakis, Takis P., to Treadwell Corporation. Device to extract power from the oscillation of the sea. 3,631,670, 1-4-72, Cl. 60-22.
- Vassilevsky, Anatole N.; deceased (by Vassilevsky, Irene; executrix); and Renke, Adolf, said Vassilevsky, Irene, assor. to V.R.B. Associates Inc. Light-weight high-strength cement compositions. 3,667,978, 6-6-72, Cl. 106-105.
- Vassilevsky, Irene: *See—*
Vassilevsky, Anatole N.; and Renke, Adolf, 3,667,978.
- Vassiliades, Anthony E.; Nauman, Edward F.; and Shroff, Shrenik, to U.S. Plywood-Champion Papers Inc. Microcapsular opacifier system. 3,669,899, 6-13-72, Cl. 252-316,000.
- Vassiliades, Anthony E.; Shroff, Shrenik; and Nauman, Edward F., to Champion International Corporation. Synthetic organic pigments, and method for their production. 3,707,514, 12-26-72, Cl. 260-2,50f.
- Vassiliadis, Arthur; Zweng, Harold C.; Peppers, Norman A.; and Al-terton, Lloyd E., 1/2 to Stanford Research Institute and 1/2 to Stanford University. Slit lamp photococulator. 3,703,176, 11-21-72, Cl. 128-395,000.
- Vassitch, Pavle, to La Cellophane S.A. Electrophotographic reproduction apparatus. 3,684,367, 8-15-72, Cl. 355-11,000.
- Vassos, Louis J.; and Gawron, Alex F. Ground fault current interrupter. 3,633,070, 1-4-72, Cl. 317-18.
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- Vasta, Joseph A., to Du Pont de Nemours, E. I., and Company. Hydroxyl containing copolymers. 3,679,642, 7-25-72, Cl. 260-70,720.
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- Vastag, Joseph: *See—*
Wright, Roy E.; and Vastag, Joseph, 3,704,148.
- Vastano, Alphonso N., to Volupte, Inc. Cosmetic container. 3,674,039, 7-4-72, Cl. 132-82.
- Vater, Wulf: *See—*
Bossert, Friedrich; and Vater, Wulf, 3,644,627.
Bossert, Friedrich; and Vater, Wulf, 3,647,807.
Bossert, Friedrich; and Vater, Wulf, 3,691,177.
Bossert, Friedrich; and Vater Wulf, 3,696,112.
- Vaterlaus, Bruno Peter: *See—*

- Batcho, Andrew David; Berger, Julius; Furlenmeier, Andre; Keller, Oscar; Pecherer, Benjamin; Schocher, Arno Johannes; Spiegelberg, Hans; and Vaterlaus, Bruno Peter, 3,706,729.
- Vath, William, to Long Island Mold and Tool Corporation. Brake assembly. 3,687,246, 8-29-72, Cl. 188-329,000.
- Vatkin, Adolf Semenovich: *See—*
Portyanko, Andrei Ivanovich; Lastovenko, Valentin Andreevich; Dudka, Viktor Vasilievich; Rodenko, Fedor Leontievich; Onischenko, Grigory Ivanovich; Vatkin, Adolf Semenovich; Pokusa, Alexei Alexandrovich; and Ruzin, Ivan Mikhailovich, 3,654,997.
- Vatne, Robert D.: *See—*
Welch, Dean E.; Nakau, Harry S.; and Vatne, Robert D., 3,642,784.
- Vaud, Janos Kurucz; and Matthey, Andre. Apparatus for manufacturing blarings that are to be used particularly in the watch making industry and for small apparatuses. 3,685,935, 8-22-72, Cl. 425-116,000.
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Parks, Worthel C., 3,669,512.
Porter, Laurence W., 3,640,324.
Wolf, Wayne, 3,651,188.
Wolf, Wayne, 3,655,321.
- Vaughan, Allan H. Edging attachment for rotary lawn mowers. 3,665,691, 5-30-72, Cl. 56-255,000.
- Vaughan, Charles L.; and Vesser, William C., to Continental Sensing Inc. Methods of and apparatus for measuring and/or locating temperature conditions. 3,683,696, 8-15-72, Cl. 73-344,000.
- Vaughan, George: *See—*
Pope, George A.; Vaughan, George; and Wilson, Paul I., 3,632,681.
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- Vaughan, Lawrence G., to Du Pont de Nemours, E. I., and Company. Organogold compounds. 3,657,296, 4-18-72, Cl. 260-430.
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Bump, Edward L., 3,637,276.
Bump, Edward L., 3,647,159.
- Vaughan, Otha H.; and Malone, Lee B., to United States of America, National Aeronautics and Space Administration. Emergency lunar communications system. 3,667,044, 5-30-72, Cl. 325-4,000.
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Cole, Peter Harold; and Vaughan, Richard, 3,706,094.
- Vaughan, Robert W.: *See—*
Lubowitz, Hyman R.; and Vaughan, Robert W., 3,697,308.
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- Vaughan, Roger Davison: *See—*
Thompson, John; and Vaughan, Roger Davison, 3,663,364.
- Vaughan, Thomas W.: *See—*
Elmendorf, Armin; Vaughan, Thomas W.; and Etzold, Roland, 3,639,200.
- Vaughan, Woodrow E.: *See—*
Scoggin, Baxter I., Jr.; Vaughan, Woodrow E.; and Reed, Gerald D., 3,654,754.
- Vaughn, Charles A. Animation system. 3,690,747, 9-12-72, Cl. 352-87,000.
- Vaughn, Damon A. Weapon carrier. 3,700,147, 10-24-72, Cl. 224-2,00a.
- Vaughn, Donald A.: *See—*
Dent, Charles E.; and Vaughn, Donald A., 3,645,512.
- Vaughn, George A.; and Hargrave, Richard D., to Maark Corporation. Metal tennis racket with plastic throat piece and molded plastic handle. 3,702,701, 11-14-72, Cl. 273-73,00h.
- Vaughn, James R., to Dow Corning Corporation. Method of polishing leather with compositions containing reaction product of hydroxy endblocked siloxanes and aminofunctional silanes. 3,702,769, 11-14-72, Cl. 106-10,000.
- Vaughn, Julian E.: *See—*
Lang, Paul C.; La Pine, Anthony N.; and Vaughn, Julian E., 3,701,039.
- Vaughn, Richard: *See—*
Cole, Peter Harold; and Vaughn, Richard, 3,707,711.
- Vaughn, Richard C. Neckwear construction. 3,639,916, 2-8-72, Cl. 2-130.
- Vaughn, Robert S.: *See—*
Laucks, F. Michael; and Vaughn, Robert S., 3,671,147.
- Vaughn, Robert S., to Borg-Warner Corporation. Hermetic refrigeration compressor. 3,689,203, 9-5-72, Cl. 417-371,000.
- Vaughn, Thomas R. Fluid-pressure time integrator. 3,635,083, 1-18-72, Cl. 73-206.
- Vaughn, Walter L.: *See—*
Kottle, Sherman; Carl, William P.; and Vaughn, Walter L., 3,690,774.
- Vaughn, Walter L., to Dow Chemical Company, The. Reactive beta-lactone-containing polymers and a method for their preparation. 3,687,909, 8-29-72, Cl. 260-80,780.
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Pollack, Russell G.; and Comer, Horace E., 3,660,934.
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Globus, Anatol; Duplex, Paul; and Vautier, Roger, 3,674,218.
- Vautrain, Lucien H.; and Lortz, Russell W., to Phillips Petroleum Company. Regeneration process for solid desiccants. 3,691,728, 9-19-72, Cl. 55-33,000.
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Beres, Steven W., 3,675,831.
Miller, Christian F., 3,698,584.
Steiman, Wolf, 3,647,120.
- V.C.A. Corporation, mesne: *See—*
Franklin, Ernest, 3,650,427.
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Miller, Christian F., 3,650,426.
Miller, Christian F., 3,650,428.
- VCB, Societe Anonyme: *See—*
Zivkovic, Dusan, 3,687,956.
- VDO Tachometer Werke Adolf Schindling GmbH: *See—*
Arzt, Friedrich; and Hofert, Paul, 3,679,850.
Brummer, Hans; and Busch, Karl, 3,665,439.
Metzger, Reinhold, 3,664,202.
- Sander, Hans-Georg, 3,706,034.
- Vdoviak, John William: *See—*
Sturgess, Geoffrey John; Hoffman, Jacob Sherman; Vdoviak, John William; and Hirschhorn, Robert, 3,703,259.
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Bell, William A., Jr.; Johnson, Ray L., Jr.; and Veach, Allen M., 3,649,827.
Bell, William A., Jr.; and Veach, Allen M., 3,700,892.
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Moore, Arthur Ivan Walter; Porter, John Howard; Vearncombe, Richard Frank; and Reiher, Edward Karl, 3,670,380.
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Anderson, Carl S.; Bittle, David F.; Veazey, Thomas M.; and Wooten, Robert G., 3,642,733.
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Baumgart, Walter, 3,667,684.
- VEB Carl Zeiss Jena: *See—*
Dietzsch, Eberhard; and Rumpoldin, Ernst, 3,634,000.
Winter, Ernst, 3,640,471.
- VEB Chemiefaserwerk Friedrich Engels: *See—*
Roth, Eberhard W.; Kroning, Hans-Joachim H. G.; and Peter, Eberhard P. H., 3,635,917.
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Proft, Rudolf; Richter, Siegmund; and Kreutzberger, Gunter, 3,649,486.
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- Johne, Hans; Schumann, Gunter; and Reichenberger, Kurt, 3,696,743.
 Rudolph, Otfried; and Kuhn, Wilfried, 3,654,861.
 Veb Druckmaschinenwerke Leipzig: *See—*
 Piesche, Fritz, 3,654,004.
 Veb Elektrogeratewerk Suhl: *See—*
 Forste, Walter; Schreiber, Joachim; and Stark, Hans, 3,636,394.
 VEB Elektromat: *See—*
 Firkert, Gunter, 3,644,814.
 VEB Elektronische Rechenmaschinen: *See—*
 Tscheschner, Walter; and Fuchs, Siegfried R. E., 3,652,801.
 VEB Feuerloschgeratewerk Neuruppin: *See—*
 Porst, Peter, 3,657,120.
 VEB Fluorwerke Dohna: *See—*
 Hubner, Klaus; Prokert, Konrad; and Stolz, Werner, 3,691,380.
 VEB Jenapharm: *See—*
 Ponsold, Kurt; and Grosse, Peter, 3,663,580.
 Teichmuller, Gerhard; Barnikol-Oettler, Kurt; and Hartmann, Werner, 3,671,555.
 Teichmuller, Gerhard; Barnikol-Oettler, Kurt; and Hartmann, Werner, 3,707,489.
 VEB Kombinat Kali: *See—*
 Doring, Gunter; Kahle, Klaus; and Schneider, Dietmar, 3,684,650.
 VEB Kombinat Luft-und Kaltetchnik: *See—*
 Rother, Wolfgang; Mordig, Eberhard; Wenzel, Erwin; Cronert, Dieter; Sand, Karl; Kasbohm, Joachim; Henicke, Heinz; Landmann, Helmut; and Stocker, Winfried, 3,701,881.
 VEB Kombinat Mess- und Regelungstechnik Dessau Werk Massindustrie Werdau: *See—*
 Binder, Wolfgang; Kalkreuth, Hasso; Glaser, Josef; and Fahrenkrug, Gunter, 3,701,470.
 VEB Kombinat Nagma: *See—*
 Leuschner, Gerhard; Pietsch, Peter; and Kadner, Gunter, 3,678,648.
 Veb Kombinat Robotron: *See—*
 Pasold, Gunter, 3,644,018.
 Schilling, Heinz, 3,696,352.
 VEB Leuna-Werke Walter Ulbricht: *See—*
 Wehner, Klaus; Grunert, Horst; Kisan, Werner; Esser, Gerhard; Knopel, Horst; and Flad, Dietmar, 3,653,809.
 Wehner, Klaus; Kisan, Werner; and Kunz, Gerald, 3,661,894.
 VEB Mikromat Dresden: *See—*
 Nordmann, Edwin; and Tischer, Siegfried, 3,633,764.
 VEB Pentacon Dresden Kamera- und Kinowerke: *See—*
 Konig, Gottfried; and Schornstadt, Peter, 3,691,922.
 VEB Pentacon Dresden Kamera- und Kinowerke: *See—*
 Reimann, Hubertus, 3,704,947.
 VEB Polygraph Leipzig, Kombinat fur Polygraphische Maschinen und Ausrustungen: *See—*
 Schone, Helmut; Henkenhae, Horst; Vetter, Lothar; and Krause, Horst, 3,686,771.
 VEB Polygraph Leipzig, Kombinat fur Polygraphische Maschinen und Ausrustungen: *See—*
 Hertrich, Klaus; and Peters, Riene, 3,679,201.
 VEB Polygraph-Leipzig-Kombinat fur Polygraphische Maschinen und Ausrustungen: *See—*
 Schone, Helmut; Weisbach, Gunter; Johnne, Hans; Kuhn, Fritz; and Lein, Werner, 3,647,205.
 VEB Rathenower Optische Werke: *See—*
 Poleska, Horst; and Fleischhauer, Horst, 3,638,272.
 VEB Spinn-Und Zwirner-Maschinenbau Karl-Marx-Stadt: *See—*
 Brenner, Lutz; and Gerhardt, Wolfgang, 3,641,637.
 VEB Sprengstoffwerk Schonebock: *See—*
 Rontsch, Sigfrid, 3,695,953.
 VEB Stickstoffwerk Piestritz: *See—*
 Zobel, Dietmar, 3,669,322.
 VEB Vhrinkombinat Rubhla: *See—*
 Lesser, Herbert F.; Schmeisser, Manfred H.; and Kamp, Artur F., 3,686,881.
 Veb Warnowwerft: *See—*
 Bauer, Ralf, 3,698,346.
 VEB Wirkmaschinenbau Karl-Marx Stadt Kombinat fur Wirk- und Strickmaschinenbauerzeugnisse: *See—*
 Findewirth, Wolfgang; Irmischer, Helmut; Kessler, Gunther; and Leubner, Gunther, 3,651,669.
 VEB Wirkmaschinenbau Karl-Marx-Stadt: *See—*
 Doring, Wolfgang; Frenzel, Bertram; Hentschel, Hans-Dieter; Kemter, Heinz; Mickenautsch, Werner; and Schmidt, Harry, 3,665,732.
 Veb Wtz fur Bekleidungschnik: *See—*
 Glasow, Gunthard; Grosse, Klaus; Hykel, Knut; Schleifer, Werner; Karste, Eberhard; and Kliehe, Helmut, 3,696,766.
 Veba-Chemie Aktiengesellschaft: *See—*
 Rindtorff, Ermbrecht; and Ester, Wilhelm, 3,704,329.
 Veba-Chemie Nord GmbH: *See—*
 Strickrodt, Jorg; Engemann, Gotthard; and Eulenhof, Hans-Gerd, 3,705,921.
 Veber, Daniel F.: *See—*
 Grabner, Roy W.; Zimmermann, Morris; Subjack, William J.; and Veber, Daniel F., 3,664,926.
 Vec/Track Research & Development Corporation: *See—*
 Warren, Maurice A., 3,683,384.
 Vecbastiks, Ivars: *See—*
 Trevillyan, Alvin E.; and Vecbastiks, Ivars, 3,670,003.
 Vecchi, John C., to Oberg Manufacturing Co., Inc. Die support with guide posts. 3,664,258, 5-23-72, Cl. 100-214.000.
 Vecchi, John C., to Oberg Manufacturing Co., Inc. Die assembly and disassembly bench. 3,696,489, 10-10-72, Cl. 29-200.000.
 Vecchio, Luigi. Therapeutic vibrating pads. 3,664,332, 5-23-72, Cl. 128-24.2.
 Vecchio, Martino: *See—*
 Cammarata, Italo; and Vecchio, Martino, 3,644,544.
 Vecchio, Martino; Gropelli, Giovanni; and Fattore, Vittorio, to Montecatini Edison S.p.A. Catalyst based on aluminum fluoride for the gaseous phase fluorination of hydrocarbons. 3,650,987, 3-21-72, Cl. 252-442.
 Vecchio, Martino; and Cammarata, Italo, to Montecatini Edison S.p.A. Process for the preparation of mixtures of chlorofluorinated derivatives of methane, containing monochlorodifluoromethane. 3,652,692, 3-28-72, Cl. 260-653.7.
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 Vecchio, Martino; Carraro, Giorgi; and Cammarata, Italo, to Montecatini Edison S.p.A. Process for the preparation of tetrafluoroethylene by dechlorination and dimerization of dichlorodifluoromethane. 3,703,557, 11-21-72, Cl. 260-653.300.
 Vectrol, Inc.: *See—*
 Muskovic, Nicolas G., 3,660,686.
 Veda, Inc.: *See—*
 Badding, Leonard J., 3,672,471.
 Buschbom, Floyd E.; and Johnson, Roger L., 3,695,234.
 Vedder, Willem; and Vermilyea, David A., to General Electric Company. Corrosion inhibiting environment for aluminum. 3,672,822, 6-27-72, Cl. 21-2.500.
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 Veeco Instruments, Inc.: *See—*
 Mongodin, Guy E.; and Malmel, Leon, 3,645,127.
 Veeden Industries Inc., mesne: *See—*
 Nelson, Howard W., 3,684,870.
 Veeder Industries Inc.: *See—*
 Bateman, Coates F.; and Kes, William, 3,688,291.
 Bateman, Coates F., 3,701,994.
 Bickford, John H., 3,633,000.
 Bickford, John H., 3,639,735.
 Bickford, John H., 3,689,835.
 Conte, Silvio, 3,662,866.
 Devanney, Raymond H., 3,675,848.
 Gamble, John G., 3,668,374.
 Hoffman, Ernest G., 3,680,402.
 Kus, Crawford M., 3,696,236.
 Lapointe, Lloyd J.; and Voegelin, Howard J., 3,677,468.
 Prosprich, Frank B., 3,641,536.
 Smilgys, Bruno S.; and Ritchie, Robert C., 3,668,375.
 Somers, William P., 3,662,157.
 Szeluga, Ludwick, 3,643,072.
 Voegelin, Howard J.; Hoffman, Ernest G.; and Lapointe, Lloyd J., 3,644,717.
 Veeder Industries, Inc., mesne: *See—*
 Harper, Laffie, 3,648,503.
 Johnston, Reed H., 3,678,253.
 Johnston, Reed H., 3,689,749.
 Veenhuizen, Edward L.: *See—*
 Wagner, Jack F.; and Veenhuizen, Edward L., 3,636,193.
 Veening, Albert Hendrik: *See—*
 Beersma, Pieter Johannes Adrianus; and Veening, Albert Hendrik, 3,640,756.
 Veerling, Crenraad W. N.; and Grossen, Victor A., to Shell Oil Company. Pipeline for the transport of gold liquids. 3,693,665, 9-26-72, Cl. 138-149.000.
 Veermans, Antonie; and De Kock, Robert J., to Stamicarbon N.V. Preparation of polyamide from ϵ -bis(- ϵ caprolactam). 3,658,765, 4-25-72, Cl. 260-78.
 Vega, Fidel. Cigarette smoking means. 3,674,036, 7-4-72, Cl. 131-7.000.
 Vegliante, Donald E.: *See—*
 Kranyik, Robert Donald; Vegliante, Donald E.; and Balmer, Donald F., 3,696,524.
 Vegors, Lester S. Load transfer coupling mechanism. 3,692,331, 9-19-72, Cl. 280-405.00r.
 Vehe, Dennis A.; Porterfield, Jay G.; and Roth, Lawrence O., to Cotton, Incorporated, mesne. Jet stream vibratory atomizing device. 3,679,132, 7-25-72, Cl. 239-4.000.

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 Veilleux, Bernard J. Ignition safety switch system. 3,695,379, 10-3-72, Cl. 180-103.000.
 Veisky, Stanislav Petrovich: *See—*
 Maranchak, Vasily Makarovich; Novella, Vladimir Nikolaevich; and Veisky, Stanislav Petrovich, 3,670,240.
 Veit, William E.: *See—*
 Coffey, James P.; and Veit, William E., 3,632,450.
 Hein, Edward R.; and Veit, William E., 3,645,793.
 Veith, Werner, to Dravo Corporation. Air sealing device for the traveling grates of sintering machines. 3,655,174, 4-11-72, Cl. 266-21.
 Veith, Werner, to Siemens Aktiengesellschaft. Method and device for retrieving information from a hologram matrix. 3,688,281, 8-29-72, Cl. 340-173.01m.
 Veith, Werner, to Siemens Aktiengesellschaft. Target structure for vidicon tube and methods of producing the same. 3,707,657, 12-26-72, Cl. 317-235.00r.
 Vekony, Balazs. Garbage can lid lock. 3,674,298, 7-4-72, Cl. 292-258.000.
 Vekovious, Charles W.: *See—*
 McDowell, Philip R.; and Vekovious, Charles W., 3,667,165.
 Velarde, Esperanza: *See—*
 Crabbe, Pierre; and Velarde, Esperanza, 3,681,410.
 Velasco, James, to United States of America, Agriculture. Automatic transfer flask. 3,631,725, 1-4-72, Cl. 73-422.
 Velasquez, Joe M. Stretch shoe string. 3,701,572, 10-31-72, Cl. 24-117.00a.
 Velasquez, Willie. Shield attachment for safety helmets. 3,668,706, 6-13-72, Cl. 2-10.000.
 Velavicius, Alfonsas: *See—*
 Wanlass, Bert R.; and Velavicius, Alfonsas, 3,674,296.
 Velavicius, Alfonsas; and Toruk, Nicholas, to General Motors Corporation. Hinge counterbalance. 3,643,378, 2-22-72, Cl. 49-445.
 Velavicius, Alfonsas; and Wanlass, Bert R., to General Motors Corporation. Movement sequencing means. 3,645,043, 2-29-72, Cl. 49-370.
 Velavicius, Alfonsas; and Wanlass, Bert R., to General Motors Corporation. Control unit for window regulator and closure latch. 3,690,036, 9-12-72, Cl. 49-279.000.
 Velazquez, Edward, to AAI Corporation. Motor and hoist control arrangement. 3,665,277, 5-23-72, Cl. 318-447.
 Velca S.p.A.: *See—*
 Lucci, Roberto; and Orlandini, Paolo, 3,661,270.
 Velcro France: *See—*
 Billarant, Jean, 3,657,850.
 Velcro SA: *See—*
 Berger, Michel Camille, 3,634,646.
 Erb, George H., 3,695,976.
 Veld, Willem In T, to Werkspoor Water N.V. Electrodialysis apparatus. 3,657,105, 4-18-72, Cl. 204-301.
 Veldkamp, William: *See—*
 Graham, Boyd E.; and Veldkamp, William, 3,632,761.
 Velie, Wallace W.; and Scherer, Robert D., to North American Rockwell Corporation. Opposed vortex combustion chamber. 3,637,336, 1-25-72, Cl. 431-351.
 Velinde, Auguste, to Verlinde S.A. Variable-throw crankpin crankshaft. 3,703,839, 11-28-72, Cl. 74-600.000.
 Velkoff, Henry R., to Ohio State University, The. Control of frost formation in heat exchangers by means of electrostatic fields. 3,681,896, 8-8-72, Cl. 55-107.000.
 Velkoff, Henry R. Wheel-type airscrew having pre-tensioned blade supports. 3,695,780, 10-3-72, Cl. 416-189.000.
 Vellella, Vincent A., to Pittsburgh Pacific Processing Co. Recovering metal values. 3,657,997, 4-25-72, Cl. 100-39.
 Velling, Gunter: *See—*
 Biller, Efim; Huettner, Rudolf; and Velling, Gunter, 3,691,238.
 Vellins, Cyril Eric: *See—*
 Booth, Gerald; Smith, Trevor James; and Vellins, Cyril Eric, 3,657,284.
 Leng, John Lindley; and Vellins, Cyril Eric, 3,632,612.
 Velo, Aldo. Movable spacer for the mechanical composition of matrices for linestacking machines. 3,648,829, 3-14-72, Cl. 199-68.
 Veloso, Alberto E., to Internationale Erfinder- und Patentanstalt. Process for the manufacture of hard ashless charcoal briquettes. 3,689,233, 9-5-72, Cl. 44-10.00c.
 Veloso, Alberto E., to Internationale Erfinder- und Patentanstalt. Method for extracting metal from a metal source in an electrolytic cell. 3,707,448, 12-26-72, Cl. 204-96.000.
 Veloz, Louis P. Sterilization of fluids by ultraviolet radiation. 3,637,342, 1-25-72, Cl. 21-102.
 Veloz, Louis P. Sterilization of a fluid by ultraviolet radiation. 3,683,177, 8-8-72, Cl. 250-43.000.
 Velsa Oy Kurikka: *See—*
 Pollanen, Kyosti Johannes, 3,692,132.
 Velsicol Chemical Corporation: *See—*
 Bellsmith, Travis L.; and Fields, Richard W., 3,671,215.
 Carlson, Arthur W., 3,678,116.
 Hanna, Delbert L., 3,689,526.
 Hanna, Delbert L., 3,689,527.
 Kahn, Henry; and Hokama, Takeo, 3,669,947.
 Krenzer, John; and Richter, Sidney B., 3,637,795.
 Krenzer, John; and Richter, Sidney B., 3,646,042.
 Krenzer, John; and Richter, Sidney B., 3,655,751.
 Krenzer, John, 3,671,538.
 Ledford, Nathan Dale, 3,681,446.
 Olesch, Dietmar H., 3,644,387.
 Richter, Sidney B.; and Kaplan, Ephraim H., 3,632,693.
 Richter, Sidney B.; and Stach, Leonard J., 3,632,814.
 Richter, Sidney B.; and Levin, Alfred A., 3,639,404.
 Richter, Sidney B., 3,639,454.
 Richter, Sidney B.; and Krenzer, John, 3,641,143.
 Richter, Sidney B.; and Kaplan, Ephraim H., 3,641,220.
 Richter, Sidney B.; and Barnas, Eugene F., 3,649,664.
 Richter, Sidney B.; and Mayer, David P., 3,655,731.
 Richter, Sidney B.; and Mayer, David P., 3,655,734.
 Richter, Sidney B.; and Levin, Alfred A., 3,677,735.
 Scardiglia, Frank; Dissen, Israel J.; and Hokama, Takeo, 3,663,658.
 Shenfeld, Richard S.; Musser, Frederick M.; and Kothari, Girish U., 3,644,252.
 Suzuki, Henry K., 3,671,595.
 Velsicol Chemical Corporation, mesne: *See—*
 Rose John L., Jr.; and Smith, Richard L., 3,634,016.
 Velte, Thomas H. Universal clamp. 3,656,212, 4-18-72, Cl. 24-250.
 Velten & Pulver, Inc.: *See—*
 Pulver, Willis Clark, 3,669,247.
 Velten, Terrance J., to Grace, W. R., & Co. Process for preparing a copper chromite catalyst. 3,698,859, 10-17-72, Cl. 23-56.000.
 Veltjens, Dieter, to Schloemann Aktiengesellschaft. Hydraulic section-stretching machine. 3,675,458, 7-11-72, Cl. 72-294.000.
 Veltman, Herbert: *See—*
 Mackiw, Vladimir Nicolaus; Veltman, Herbert; and Vizsolyi, Andrew Imre, 3,637,371.
 Veltman, Preston L.: *See—*
 Patil, Arvind S.; Veltman, Preston L.; Loder, Edwin R.; Sabatelli, Philip M.; and Sarge, Carmen R., 3,682,190.
 Veltman, Preston Leonard; Van Brederode, Herman; and Verdonk, Johannes C. J., to N.V. Cacaofabriek de Zaan Koog Zaankijk. Spray drying solid particles of sugar and recycled crumb product with liquid component of water, sugar coca material, and milk solids o produce chocolate crumb. 3,702,252, 11-7-72, Cl. 99-23.000.
 Veltri, Richard D.: *See—*
 Galasso, Francis S.; and Veltri, Richard D., 3,640,693.
 Veltri, Richard D.; Merriam, Asaph U.; and Basche, Malcolm, to United Aircraft Corporation. Method for coating filaments. 3,700,486, 10-24-72, Cl. 117-71.00r.
 Vely, Victor G.: *See—*
 Litchfield, John H.; and Vely, Victor G., 3,651,206.
 Litchfield, John H.; and Vely, Victor G., 3,679,792.
 Velzel, Christiaan Hendrik Frans, to U.S. Philips Corporation. Method of measuring the roughness of a surface. 3,676,006, 7-11-72, Cl. 356-109.000.
 Velzel, Christiaan Hendrik Frans, to U.S. Philips Corporation. Holographic multiple image formation with astigmatism correction. 3,653,736, 4-4-72, Cl. 350-3.5.
 Vemuri, Krishna P., to Abitibi Paper Company, Ltd. Polysoccharide oxidized products. 3,691,153, 9-12-72, Cl. 260-209.00r.
 Ven-Dog International: *See—*
 Crum, Wayne M., 3,653,541.
 Venable, Ben F.: *See—*
 Fowler, Grady C.; and Venable, Ben F., 3,650,246.
 Venable, Catherine M.: *See—*
 Venable, Henry B.; and Venable, Catherine M., 3,674,183.
 Venable, Charles R., Jr.: *See—*
 Vanderveen, John W.; Cheng, Paul J.; Mills, K. Louis, Jr.; Venable, Charles R., Jr.; and Johnson, Paul H., 3,676,070.
 Venable, Henry B.; and Venable, Catherine M. Dispensing device. 3,674,183, 7-4-72, Cl. 222-212.000.
 Venables, Herbert J., III, to Venables Machine and Tool Company, The. Squareness gauge. 3,681,849, 8-8-72, Cl. 33-214.000.
 Venables, Herbert J., III, to General Electric Company. Machine for manufacturing heat exchanger tube. 3,688,375, 9-5-72, Cl. 29-202.00d.
 Venables Machine and Tool Company, The: *See—*
 Venables, Herbert J., III, 3,681,849.
 Venanzetti, Michele. Vibrating screen with one or more groups of screening elements. 3,642,133, 2-15-72, Cl. 209-314.
 Vendelin, George D.; and Webster, Roger R., to Texas Instruments, Incorporated. Low capacitance planar varactor diode. 3,636,420, 1-18-72, Cl. 317-234.
 Venderbos, Dirk J.; and Van Dierendonck, Laurentius L., to Stamicarbon N.V. Process for isolating organic compounds dissolved in an organic solvent. 3,703,502, 11-21-72, Cl. 260-80.780.
 Vendetti, Lewis A.: *See—*
 Christoph, Walter P.; McQuitty, Jim B.; and Vendetti, Lewis A., 3,646,814.

- Venditty, Anthony, to General Motors Corporation. Device for securing vehicle to transporter door. 3,659,533, 5-2-72, Cl. 105-368.
- Vendmart, Inc.: *See—*
Deaton, James M., 3,690,510.
- Vendo Company, The: *See—*
Baxendale, John W., 3,662,898.
Black, Stewart L.; Childers, Spencer L.; and Bieri, Leonard, Jr., 3,683,790.
Breedon, James A., 3,669,235.
Hanson, Theodore L., 3,675,819.
Hennessy, John A., 3,642,108.
Offutt, Elmer Bradley, 3,653,540.
O'Neal, Wilbert O.; and Weston, Warren K., 3,642,164.
Ptacek, James F., 3,656,615.
Ptacek, James F., 3,706,374.
Soraci, Oreste; and Hennessy, John A., 3,684,074.
- Venema, Albertus: *See—*
Jansen, Constant Gijsbertus Johannes; Compaa, Klaas; and Venema, Albertus, 3,688,151.
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Francois, Xavier; Venet, Roland Jean; and Prioretti, Guy Pierre, 3,678,845.
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Coffey, James P.; and Vengrofski, Frank A., 3,644,149.
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Lass, James L.; Ross, Wilfred T.; and Venier, Dominic A., 3,654,077.
Mefford, Carl R.; Lass, James L.; Smith, Bart A.; Venier, Dominic A.; and Trocki, Thomas, 3,697,376.
Smith, Bart A.; Lass, James L.; and Venier, Dominic A., 3,689,358.
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Koval, Robert J., 3,645,195.
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Maiero, Richard Joseph, 3,656,656.
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Patterson, Roger Lee; and Ventresca, Mario, 3,700,042.
Patterson, Roger Lee; and Ventresca, Mario, 3,701,385.
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Kaye, Saul, 3,705,786.
Sullivan, Edward A.; and Wade, Robert C., 3,637,472.
Wade, Robert C., 3,634,296.
Wade, Robert C., 3,636,020.
Wade, Robert C., 3,637,516.
Wade, Robert C., 3,663,254.
Wade, Robert C., 3,667,923.
Wade, Robert C., 3,697,232.
Wade, Robert C., 3,701,794.
Yeager, Charles C.; and Wilson, Ronald C., 3,689,449.
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Chapin, Jay C., 3,642,525.
Chapin, Jay C., 3,684,559.
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Serebrin, David, 3,669,129.
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Greenawalt, Fred A., 3,650,287.
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Korman, Nathaniel I., 3,674,364.
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Harmon, Samuel T., Jr.; Monroe, Kenneth E.; and Venturi, Gino, 3,660,761.
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De Nicolay, Giuliano; and Venturini, Piero, 3,670,255.
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Galluppi, Filippo B., 3,659,190.
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Stepanov, Gennady Arkadievich; Tsailingold, Anatoly Lvovich; Pilipenko, Fedor Semenovich; Sodolev, Valerian Mikhailovich; Borekov, Georgy Konstantinovich; Buyanov, Roman Alexeevich; and Venyaminov, Sergei Alexeevich, 3,678,124.
- Vepa AG: *See—*
Fleissner, Hans, 3,683,648.
Fleissner, Hans, 3,686,903.
Fleissner, Heinz; and Fleissner, Gerold, 3,639,955.
Fleissner, Heinz, 3,672,010.
Fleissner, Heinz, 3,672,467.
Fleissner, Heinz, 3,673,822.
Fleissner, Heinz, 3,680,221.
Fleissner, Heinz, 3,681,946.
Fleissner, Heinz, 3,681,949.
Fleissner, Heinz, 3,681,950.
Fleissner, Heinz; and Fleissner, Gerold, 3,686,902.
Fleissner, Heinz, 3,696,475.
Fleissner, Heinz, 3,698,049.
Janisch, Ingo; and Fleissner, Heinz, 3,700,404.
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Panter, Robert B.; Dufton, John Peter; Duthie, Robert W.; and Verbaas, George, 3,678,197.
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Harrell, Jerald R.; Logothetis, Anestis L.; and Verbanc, John J., 3,679,627.
Tarney, Robert Edward; and Verbanc, John J., 3,657,203.
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De Koe, Oscar Bernardus Philomenus Rikkert; and Verbeek, Robert Jacques, 3,699,260.
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Pottiez, Fernand; and Verbeest, Raphael, 3,664,930.
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Albers, Wouter; and Verberkt, Jacobus, 3,641,406.
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Von Marinelli, Silvio M.N.K.W.F.; Vree, Jules Herman; and Verboom, Joannes B., 3,696,512.
- Verboven, Ghislain Felix Alfons Arthur: *See—*
Spiessens, Raymond Francois; Schuringa, Leffert; and Verboven, Ghislain Felix Alfons Arthur, 3,646,308.
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Garritsen, Johan W.; Kooijman, Sebastiaan E. M.; Gregoire, Johannes H. C. M. A.; and Verbrugge, Henny, 3,639,359.
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Gautier, Pieter A.; and Verbrugge, Herman, 3,642,716.
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Samodaev, Evgeny Timofeevich; Verchenko, Vasily Romanovich; Gorjunov, Vladimir Ivanovich; Andrikanis, Vladimir Konstantinovich; Illichev, Valery Alexandrovich; Gavrin, Mikhail Grigorievich; and Binkou, Georgy Aronovich, 3,689,351.
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Westfall, James E.; Lawson, Arthur L.; and Vercillo, Peter A., 3,690,499.
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- Verderevsky, Vadim Anatolievich: *See—*
Tselikov, Alexandr Ivanovich; Grum-Grzhimailo, Nikolai Alexeevich; Verderovsky, Vadim Anatolievich; Vernik, Alexandr Borisovich; Skorovsky, Boris Pavlovich; Kazakevich, Igor Ilarionovich; and Kuznetsov, Ivan Vasilievich, 3,661,314.
Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderovsky, Vadim Anatolievich, 3,670,549.
Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderovsky, Vadim Anatolievich, 3,673,840.
Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderovsky, Vadim Anatolievich, 3,680,345.
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Thienot, Marc O.; and Verdol, Joseph A., 3,687,914.
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Fumat, Joseph, 3,661,185.
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Smith, Donald A.; and Verdone, Joseph A., 3,647,464.
- Verdonk, Johannes C. J.: *See—*
Veltman, Preston Leonard; Van Brederode, Herman; and Verdonk, Johannes C. J., 3,702,252.
- Vere, Thomas D.: *See—*
Muri, Richard L.; and Vere, Thomas D., 3,677,817.
- Vereb, Hans: *See—*
Schweng, Otto; Smejkal, Hellmuth; Vereb, Hans; and Eicher, Karl, 3,662,447.
- Verein zur Forderung der Festkörperphysik an der Edgenossischen Technischen Hochschule: *See—*
Busch, Georg; and Wachter, Peter, 3,697,688.
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Hirt, Wilhelm; Lehnerdt, Hagen; Weckesser, Ernst; Weinhold, Gottfried; and Wrigge, Friedrich Wilhelm, 3,673,074.
Nolting, Peter, 3,700,224.
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Conrad, Hans; and Zoebe, Hugo, 3,634,890.
Hinze, Eberhard; Kaufer, Helmut; and Theobald, Reiner, 3,660,552.
- Vereinigte Draht- und Kabelwerke Aktiengesellschaft Berlin und Duisburg: *See—*
Falke, Henning, 3,691,287.
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Grabe, Fritz, 3,633,261.
- Vereinigte Drahtwerke A.G.: *See—*
Iseli, Hans, 3,694,288.
- Vereinigte Flugtechnische Werke GmbH fruher "Weser" Flugzeugbau/Focke-Wulf/Heinkel-Flugzeugbau: *See—*
Riedl, Franz, 3,647,166.
- Vereinigte Flugtechnische Werke-Fokker GmbH: *See—*
Euer, Hartmut; and Pauli, Gunter, 3,665,505.
Girilschek, Siegfried, 3,662,576.
Neumann, Dietrich; and Pattberg, Georg, 3,680,069.
Pakendorf, Horst, 3,680,316.
Renner, Eskhard; and Linnenbecker, Udo, 3,703,849.
Salamon, Wolfgang; and Fath, Werner, 3,663,879.
Schutze, Horst, 3,645,287.
Schwarzer, Hans-Jurgen, 3,677,504.
Seidenfaden, Heinz, 3,681,834.
- Vereinigte Kapselabriken Nackenheim GmbH: *See—*
Deutschbein, Ulrich, 3,633,730.
- Vereinigte Leichtmetall-Werke GmbH: *See—*
Teubler, Adolf; and Eversheim, Paul, 3,672,878.
- Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft: *See—*
Peter, Erwin; and Oswald, Peter, 3,684,229.
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Spannlang, Ronald, 3,640,503.
- Vereinigte Österreichische Eisen- und Stahlwerke Aktiengesellschaft: *See—*
Gruber, Heinz, 3,652,071.
Hager, Alois, 3,687,435.
Hager, Alois, 3,692,290.
Hinterholz, Ernst; and Sulzer, Hubert, 3,633,399.
Hinterholz, Ernst, 3,646,795.
Hinterholz, Ernst, 3,650,139.
Jungwirth, Adalbert, 3,663,204.
Krausz, Johann; and Feichtinger, Johan, 3,703,057.
Puhlinger, Othmar, 3,632,098.
Puhlinger, Othmar, 3,635,458.
Schoffmann, Rudolf, 3,648,504.
Schoffmann, Rudolf, 3,670,381.
Schoffmann, Rudolf, 3,678,571.
Schwarz, Walter; and Steinmair, Karl, 3,645,519.
Schweng, Otto; Smejkal, Hellmuth; Vereb, Hans; and Eicher, Karl, 3,662,447.
Truppe, Meinhard; Scherthaner, Matthias; and Pofel, Gunter, 3,647,559.
Truppe, Meinhard; Scherthaner, Matthias; and Pofel, Gunter, 3,647,560.
Truppe, Meinhard; Scherthaner, Matthias; and Pofel, Gunter, 3,652,068.
Waclawiczek, Herbert V., 3,693,701.
Wogerbauer, Alfred; and Strasser, Rudolf, 3,656,515.
Wogerbauer, Alfred, 3,703,085.
Wogerbauer, Alfred; and Hulek, Anton, 3,707,257.
- Vereinigte Österreichische Eisen- und Stahlwerke Aktiengesellschaft: *See—*
Hubner, Franz; and Jilek, Walter, 3,685,358.
- Vereinigung Volkseigener Betriebe Tierzucht und industrielle Tierproduktion Deutsche Demokratische Republik: *See—*
Wittke, Egon; and Heitsch, Wolfgang, 3,650,058.
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Stievenart, Emile Frans; Mees, Omer Jan; and Verelst, Johan Lodewijk, 3,685,420.
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Thoonen, Theodorus J., 3,647,366.

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Pei, Yu Kun; and Veres, Frank, 3,666,583.
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Furniss, William R.; and Verga, Dominick, 3,642,102.
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- Vergara, Manuel N.: *See*—
Newberger, Bernard I.; Ehrlich, Stanley W.; and Vergara, Manuel N., 3,666,826.
- Vergara, William C.: *See*—
Green, Norman; Greenhouse, Harold M.; Vergara, William C.; and McGill, Robert L., Jr., 3,641,372.
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Gittos, Maurice Ward; James, John William; and Verge, John Pomfret, 3,652,570.
- Roffey, Patrick; and Verge, John Pomfret, 3,644,358.
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Kelley, Bernard B., 3,689,616.
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Chicheportiche, Armand; Vallee, Rene Louis; and Vergez, Pierre, 3,662,273.
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Glang, Reinhard; Holmwood, Richard A.; Maisel, Leon I.; and Vergnolle, Jean, 3,652,750.
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Schuurbiens, Petrus J.; Verhagen, Louis A.; and Vernhout, Johannes G. L., 3,641,803.
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- Verheul, Cornelis M.; and Sternling, Charles V., to Shell Oil Company. Mixing nozzle for gases. 3,706,534, 12-19-72, Cl. 23-284.000.
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Simon, Stephane Marcel Clement; and Verhille, Henri Albert Juli, 3,667,001.
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- Verhille, Karel E.; and Ghys, Theofiel Hubert, to Gevaert-Agfa N.V. Optically sensitized photoconductive recording elements. 3,649,264, 3-14-72, Cl. 96-1.7.
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Depoorter, Henri; Rillaers, Guy Alfred; Verhille, Karel Eugene; and Ghys, Theofiel Hubert, 3,660,085.
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Sundblom, Leif J.; and Olivier, Louis A., 3,669,108.
- Veritas International: *See*—
Swanson, Norman, 3,650,235.
- Verkoren, Henri: *See*—
Reman, Gerrit H.; and Verkoren, Henri, 3,672,853.
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Theunissen, Matthias Johannes Joseph; and Verkuijlen, Wilhelmus Henricus Cornelis Gerardus, 3,677,846.
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- Verley, Donald J. Hydraulically powered waste disposal device. 3,700,178, 10-24-72, Cl. 241-46.00b.
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Velinde, Auguste, 3,703,839.
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Vedder, Willem; and Vermilyea, David A., 3,672,822.
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Akers, George J., 3,676,888.
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Charvier, Henri; and Vernet, Jean-Louis, 3,631,719.
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Aposporos, Nick J., 3,665,592.
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Berlincourt, Don A., 3,699,484.
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Marchal, Philippe Albert Hippolyte; Simonnet, Jacques Louis Paul; and Verrien, Jean Prudent Fernand Rene, 3,653,225.
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Maynard, Baylor H., Jr., 3,690,078.
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Lloyd, William A., 3,693,185.
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Luenser, Kurt K., 3,666,965.
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Hasselbach, Werner; and Pompili, Peter L., 3,691,441.
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Fedi, Leto; Meunier, Jean; and Vertut, Jean, 3,682,208.
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Neubaus, Hans Wilhelm; and Verweel, Jan, 3,702,993.
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Greenwood, Arthur R.; and Vesely, Kenneth D., 3,647,680.
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Schroeder, Michael J., 3,662,561.
- Vesper, George J.: *See*—
High, Richard A.; and Vesper, George J., 3,672,189.
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Riess, Joseph A.; and Vespie, Conrad P., 3,701,001.
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Grage, Casper R.; and Vessels, Theodore R., 3,635,207.
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Vaughan, Charles L.; and Vesser, William C., 3,683,696.

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United States of America, National Aeronautics and Space Administration, 3,702,972.
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Ramirez, W. Fred, Jr.; and Vestal, Charles R., 3,702,003.
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Rieder, Lorenz; and Vester, Klaus, 3,649,928.
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Thornton, James M., 3,632,026.
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Hamrick, James C.; and Ruddick, Howard G., 3,669,087.
- Vetco Offshore Industries, Inc.: *See—*
Ahlstone, Arthur G., 3,638,725.
Ahlstone, Arthur G., 3,667,547.
Baugb, Benton F., 3,688,841.
Baugb, Benton F., 3,693,714.
Hanes, James W. E.; and Larralde, Edward, 3,647,245.
Hanes, James W. E., 3,664,689.
Hanes, James W. E., 3,695,633.
Huntsinger, Fritz R.; and Hanes, James W. E., 3,638,732.
Nelson, Bobby H., 3,649,032.
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Giammarco, Giuseppe, 3,659,401.
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Schmitt, Peter C.; Vette, Carl W.; and Meyer, Amos J., II, 3,702,899.
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Barnabei, Philip S.; and Vettel, Norbert, 3,644,058.
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Pelz, Willibald; Kabitzke, Karlheinz; Freytag, Karl-Heinz; Vetter, Hans; Danhauser, Justus; and Bockly, Erich, 3,684,513.
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Schone, Helmut; Henkenhae, Horst; Vetter, Lothar; and Krause, Horst, 3,686,771.
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Karas, Albert J.; and Vey, John E., 3,655,405.
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Esemplare, Pascal E.; and West, Charles P., 3,647,603.
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Guestaux, Claude; Leaute, Jean; Virey, Claude; and Vial, Jacques, 3,658,573.
- Viall, Wilton S.: *See—*
Skidmore, Wallace E.; Syltebo, Bjarne E.; and Viall, Wilton S., 3,664,612.
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Smith, Leon; Calvert, David W.; Robert, Andre; and Viallet, Andre, 3,657,065.
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Lucas, Georges; and Viallet, Claude, 3,681,217.
Lucas, Georges; and Viallet, Claude, 3,681,218.
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Daimer, Wolfgang; and Lackner, Heinrich, 3,654,203.
Daimer, Wolfgang; and Klintschar, Gerfried, 3,658,736.
Daimer, Wolfgang, 3,658,795.
Daimer, Wolfgang; and Lackner, Heinrich, 3,668,098.
Laszlo, Tulacs, 3,707,584.
- Viatron Computer Systems Corporation: *See—*
Flanagan, Michael I., 3,685,039.
Flanagan, Michael J., 3,685,038.
Limbert, Raymond Walter, 3,648,036.
Wellington, Charles K.; Jung, Dietrich; and Kwasniewski, George A., 3,666,193.
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Gobron, Georges; and Motillon, Marcel, 3,652,458.
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Delafosse, Jacques; and Viaud, Jean-Luc, 3,674,637.
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Sjoberg, Bengt; and Viberg, Oskar, 3,689,741.
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Cutler, Lester M.; and Friedman, Paul, 3,705,578.
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Hendershot, James R., 3,672,476.
Hendershot, James R.; and Searle, Robert F., 3,680,671.
Hendershot, James R., Jr.; and Searle, Robert F., 3,664,473.
- Vibratechniques S.A.: *See—*
Sironi, Virginio, 3,680,842.
Sironi, Virginio, 3,704,862.
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Fowler, Neal V., Jr.; Gallagher, Arthur P.; and Chance, Calvin L., Jr., 3,702,644.
- Vibro-Meter AG: *See—*
Hatschek, Rudolf A., 3,636,387.
Loos, Horst Rudolf, 3,688,187.
- Vibrodyn, Inc.: *See—*
Isaacson, Max, 3,637,190.
Isaacson, Max; and Smilg, Benjamin, 3,643,384.
Isaacson, Max; and Smilg, Benjamin, 3,694,968.
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Jackson, Wendell T.; Garrett, Beverley R.; and Vicars, Earl C., 3,673,058.
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Lawson, Robert; and Oulton, Kenneth, 3,652,063.
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- Vick, Gerald L., to Conrac Corporation. Silicon diaphragm with integral bridge transducer. 3,641,812, 2-15-72, Cl. 73-88.5.
- Vick, Stephen L., to Black and Decker Manufacturing Company, The. Brush lead retainer. 3,641,379, 2-8-72, Cl. 310-239.
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- Vickers, Charles W., III, to Rosenbloom, Percy, Jr. Combined flashlight and chemical expelling device. 3,638,836, 2-1-72, Cl. 222-113.
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- Hynds, John; Phillipson, John Maddison; and Vickers, Edward Jervis, 3,694,408.
- Vickers, Fenwick: *See—*
Haddick, Roy D.; Purewal, Karmjit; and Vickers, Fenwick, 3,661,885.
- Vickers G.m.b.H., Firma: *See—*
Langosch, Otto Paul Ferdinand, 3,663,126.
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Shannon, James William, 3,677,599.
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Vickers, John; and Vickers, John K., 3,692,335.
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Gothard, Sydney Averill, 3,679,142.
Hicks, Raymond John, 3,633,441.
Hinds, David, 3,655,987.
Kennedy, Oswald; and Harrison, John Ian, 3,667,273.
Morse, Clifford, 3,689,164.
Smith, Francis Hughes, 3,652,167.
Smith, Francis Hughes, 3,664,745.
Smith, Francis Hughes, 3,677,621.
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Bennett, Norman J.; and Haessler, Robert W., 3,633,765.
- Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen: *See—*
Hardung-Hardung, Heimo, 3,656,230.
Hardung-Hardung, Heimo; Corsepius, Horst; and Hofmann, Hansdieter, 3,706,647.
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Brigham, Kristin; and Vickery, Ronald C., 3,647,488.
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Grimston, Roger Anthony; and Boyland, Albert Henry John, 3,649,991.
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Center, John L., 3,682,173.
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Glover, Peter David; Forshaw, Richard; and Steele, William Henry, 3,640,253.
Glover, Peter David; Forshaw, Richard; and Steele, William Henry, 3,650,252.
Meyer, Dolph Allan; Phelps, Ross Leslie; Seidel, David Paul; Dykes, Edward Henry; Clipsham, Ian Sweet; Gray, Donald; and Ractivand, Theodore Demetrius, 3,636,686.
Meyer, Dolph Allan; Phelps, Ross Leslie; Sykes, Edward Henry; Clipsham, Ian Sweet; Seidel, David Paul; Gray, Donald; and Ractivand, Theodore Demetrius, 3,694,855.
Snodgrass, Kenneth William; Steele, William Henry; Wilson, Alan; and Phelps, Ross Leslie, 3,685,613.
Steele, William Henry, 3,704,988.
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Piatek, Edward Walter; and Horr, William A., 3,699,828.
Young, John S., 3,680,894.
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Blakeley, James, 3,695,638.
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Bojyo, Takuro; and Yamashita, Katsuyuki, 3,690,589.
Doi, Toshio, 3,639,689.
Fujita, Mitsuo, 3,659,040.
Fujita, Mitsuo, 3,704,341.
Genma, Susumu; Kuroda, Akio; Kato, Toshio; and Kishi, Fusao, 3,681,225.
Goto, Kunio, 3,663,766.
Hidaka, Tsuneyoshi; Morita, Akiyoshi; Honjo, Yoshihiko; and Nishimura, Takashi, 3,681,518.
Hidaka, Tsuneyoshi; and Honjo, Yoshihiko, 3,702,897.
Honda, Masatsugu; and Shinozaki, Masanobu, 3,691,427.
Ibuchi, Kenji, 3,682,415.
Iwata, Mitsuo, 3,697,015.
Kanno, Satoshi, 3,671,837.
Kato, Yoshiro; and Uno, Kimio, 3,643,846.
Kinjo, Hisao; Iwabuchi, Yoshitaka; Takashima, Seiichi; Kato, Takatoshi; and Okano, Keigo, 3,641,278.
Kinjo, Hisao; Takashima, Seiichi; Kato, Takatoshi; and Iwabuchi, Yoshitaka, 3,646,261.
Kinjo, Hisao, 3,649,752.
Kinjo, Hisao; Takashima, Seiichi; and Kato, Takatoshi, 3,649,753.
Kinjo, Hisao; and Suzuki, Toshi, 3,651,279.
- Kosaka, Yoshiteru, 3,671,665.
Kosugi, Tsuneo, 3,705,840.
Miyasaka, Takao, 3,663,878.
Morita, Akiyoshi; and Itoh, Yukio, 3,676,583.
Ohira, Tsunehisa, 3,689,077.
Suzuki, Toshi; and Nishijima, Tsutomu, 3,679,839.
Takahashi, Nobuaki, 3,686,471.
Takashima, Seiichi; and Kato, Takatoshi, 3,643,036.
Takayanagi, Kenjiro; Matsuyama, Kihachiro; Fujiwara, Tadashi; Mizuno, Hideaki; and Akiyama, Naoki, 3,692,576.
Ueno, Ichiro, 3,638,065.
Usagawa, Koji, 3,652,792.
Wada, Yoshiyo; and Yasutake, Katsuya, 3,655,910.
Wada, Yoshiyo; Kinjo, Hisao; Suzuki, Toshi; and Akuwa, Fumio, 3,673,352.
Wada, Yoshiyo; Kinjo, Hisao; and Okano, Keigo, 3,679,822.
Wada, Yoshiyo; Kinjo, Hisao; Takashima, Seiichi; and Akuwa, Fumio, 3,681,525.
Yamamoto, Toshiaki, 3,680,008.
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Brumbach, Joseph F., 3,636,258.
Remaly, Robert F.; and Abel, William A., 3,673,286.
- Victor Equipment Company: *See—*
Douglas, Lloyd A., 3,651,794.
- Victor, Fritz, Hasselblad Techn.: *See—*
Dahlgren, Lennart Gunnar Oskar, 3,685,423.
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Mezey, Frank G., 3,688,226.
Mezey, Frank G. J., 3,681,828.
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- Victor, Michel N. Quick release nut. 3,675,530, 7-11-72, Cl. 85-33.000.
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Nilsson, Lars Olov; Liljegren, Nils Leo; and Victorin, Robert, 3,659,707.
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Garland, Charles; Victory, James J.; and Latimer, John P., 3,666,098.
- Victory Metal Manufacturing Corporation: *See—*
Heyer, John A., 3,683,153.
- Victronic, Inc.: *See—*
Schwartz, Joseph E., 3,654,847.
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Reinhard, John F.; Samour, Carlos M.; and Vida, Julius A., 3,663,699.
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- Vidal, Henri C. Constructional works. 3,686,873, 8-29-72, Cl. 61-39.000.
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Gomarin, Claude; and Vidal, Jean, 3,682,133.
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Daniel, Kenneth D., 3,696,378.

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Beck, Joseph H., 3,676,580.
- Video Logic Corporation: *See—*
Segerstrom, Richard J., 3,662,101.
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Flagle, Harry David, 3,654,385.
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Cassimatis, Jean; and Vie, Robert, 3,691,725.
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Schmid, Frederick; and Viechnicki, Dennis J., 3,653,432.
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Merkner, Albert H.; Viechli, Alessandro; and McCoy, Robert C., 3,653,525.
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Buijle, Raoul; and Viehe, Heinz G., 3,644,374.
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Long, Alfred R.; and Viehmann, George A., 3,635,614.
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Olsen, Robert W.; Rodgers, David P.; and Viehmann, George A., 3,631,790.
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Kohler, Roland; Nagel, Erich; Hujer, Friedrich; and Viehrig, Wolfgang, 3,674,365.
- Viel, Floyd W. Front loader type rock picker. 3,643,821, 2-22-72, Cl. 214-140.
- Vielhauer, Harold G. Apparatus for physiological investigation. 3,695,253, 10-3-72, Cl. 128-2.05p.
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Gilljarhus, Gunnar; and Vien, Hans, 3,677,181.
- Viene, John G., to Koch Supplies, Inc. Meat grinder. 3,653,420, 4-4-72, Cl. 146-186.
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Bex, Lucien; Faure, Jean; and Vienet, Roger, 3,702,416.
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Sennewald, Kurt; Ohorodnik, Alexander; Hundedek, Joachim; Mittler, Werner; Vierling, Hermann; and Opitz, Wolfgang, 3,660,306.
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Blok, Petrus; and Viersma, Taco Jan, 3,654,918.
- Vierstraete, Jean. Apparatus for machining elongated workpieces. 3,685,915, 8-22-72, Cl. 408-26.000.
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Baader, Herbert; Sennewald, Kurt; Reis, Helmut; and Viertel, Gunther, 3,649,700.
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- Viescas, Arthur B.: *See—*
Calvert, Rodney K.; Viescas, Arthur B.; and Fishback, Alton J., 3,642,414.
- Elrod, Ernest; and Viescas, Arthur B., 3,705,069.
- Vieser, Wolfgang: *See—*
Bringe, Wolfgang; Querfurth, Eberhard; Schanbacher, Hans-Albr.; Seiberth, Hans-Jurgen; and Vieser, Wolfgang, 3,662,304.
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- Viessmann, Hans. Boilers. 3,664,308, 5-23-72, Cl. 122-149.
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Barron, Roger L.; Kelleher, Kenneth S.; and Vieth, George C., Jr., 3,680,126.
- Vietorisz, Joseph A.: *See—*
Mitchell, Hartman; and Vietorisz, Joseph A., 3,661,372.
- Vietzke, Horst: *See—*
Ploger, Fritz; and Vietzke, Horst, 3,676,075.
- Viewlex, Inc., mesne: *See—*
- Kongelka, Robert Michael, 3,696,899.
- Vig, Istvan, to Aktiengesellschaft Brown, Boveri & Cie. Milling tool. 3,641,871, 2-15-72, Cl. 90-11.
- Vigant, George Henry; and Kloth, James Albert, to AMP Incorporated. Notched plate clasp apparatus. 3,683,319, 8-8-72, Cl. 339-97.00r.
- Vigh, Michael Walter; and Rocheleau, Harold Thomas, to RCA Corporation. Method of removing polyurethane resin protective coating. 3,661,641, 5-9-72, Cl. 134-6.
- Vigh, Zoltan. Hertzian stress reducing means for gears and bearings. 3,636,792, 1-25-72, Cl. 74-461.
- Vigil, Jacob F.: *See—*
Hauck, Erwin Arthur; and Vigil, Jacob F., 3,639,909.
- Price, William Chandler; Hauck, Erwin A.; and Vigil, Jacob F., 3,693,161.
- Vigilante, Frank S.: *See—*
Ulrich, Werner; and Vigilante, Frank S., 3,643,032.
- Vignau, Michel: *See—*
Bucourt, Robert; Vignau, Michel; and Raynal, Jean, 3,637,754.
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- Vignini, Walter R., to Sonotone Corporation. Fluid metal electrical switch. 3,637,969, 1-25-72, Cl. 200-203.
- Vignini, Walter R., to Sonotone Corporation. Carrier for variable battery retention. 3,673,002, 6-27-72, Cl. 136-173.000.
- Vignini, Walter R., to Gould Inc., mesne. Battery holder and three-position switch for hearing aid. 3,701,862, 10-31-72, Cl. 179-107.00h.
- Vignola, Giulio: *See—*
Leone, Girolamo; and Vignola, Giulio, 3,657,608.
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Tonkovich, William; Meditz, John A.; and Vignola, Paul, 3,662,226.
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- Vigo, Tyrone L.; Margavio, Matthew F.; and Welch, Clark M., to United States of America, Agriculture. Fibrous crosslinked (aminoalkyl)aminochlorodeoxycellulose and method of preparation. 3,698,857, 10-17-72, Cl. 8-116.200.
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- Vigor, Charles W.: *See—*
Hornaday, James R., Jr.; Miller, Edwin J.; and Vigor, Charles W., 3,632,980.
- Vigorito, Benito. Exercising device. 3,672,094, 6-27-72, Cl. 46-62.000.
- Vigren, Sten Daniel: *See—*
Zander, Rolf Albin; Claesson, Per Harry Elias; and Vigren, Sten Daniel, 3,649,938.
- Vigus, Cebon T., to Combustion Engineering, Inc. Hydraulic positioning saddle. 3,675,915, 7-11-72, Cl. 269-58.000.
- Vihl, Bernhard. Dye beck. 3,686,901, 8-29-72, Cl. 68-15.000.
- Vik, Albam M., to Inventors Engineering Inc. Slit trench digging apparatus. 3,638,339, 2-1-72, Cl. 37-98.
- Vik, Albam M., to Inventors Engineering Inc. Pallet for handling shipping drums. 3,654,875, 4-11-72, Cl. 108-51.
- Vik, Albam M., to Dempco, Inc. Snowmobile ski and blade construction. 3,675,939, 7-11-72, Cl. 280-28.000.
- Vik, Albam M., to Dempco, Inc. Unique hydraulic coupler. 3,680,591, 8-1-72, Cl. 137-614.050.
- Viking Explosives & Supply Inc.: *See—*
Bednar, David H., 3,702,223.
- Viking Industries, Inc.: *See—*
Iversen, Ralph T., 3,657,682.
- Viking Snowmobile, Inc.: *See—*
Hendrickson, George Vernon, 3,701,394.
- Viks, Paavo Yaanovich: *See—*
Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itsikon, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanovich; and Berestovsky, Georgy Grigorievich, 3,705,793.
- Vikstrom, Dennis G., to General Motors Corporation. Clamp on current detector. 3,706,032, 12-12-72, Cl. 324-127.000.
- Viktora, Josef Karel; and Baukal, Albert Jozel, to Research Foundation of the Washington Hospital Center. Apparatus for transport and storage of liquid specimens for radio-immunoassay for insulin. 3,675,488, 7-11-72, Cl. 73-421.00r.
- Vikulina, Ninel Vladimirovna: *See—*

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- Vilagi, Burton J.: *See—*
Nord, Eric T.; Rosen, Samuel R.; Scarbrough, Don R.; Vilagi, Burton J.; and Runstadler, Peter W., Jr., 3,635,400.
- Scarbrough, Don R.; and Vilagi, Burton J., 3,672,570.
- Vilain, Raymond, to Rhone-Poulenc S.A. Hospital glove. 3,683,420, 8-15-72, Cl. 2-161.00r.
- Vilain, Robert H., to Compagnie Francaise d'Enterprises. Means for measuring forces, notably at the foot of an oscillating column or an offshore drilling platform. 3,648,514, 3-14-72, Cl. 73-100.
- Vilain, Robert H., 50% to Compagnie Francaise d'Enterprises Metaliques. Installations for submarine work. 3,667,240, 6-6-72, Cl. 61-46.5.
- Vilanova, Eduardo Salles. Manufacture of spindles for ring-spinning and twisting frames. 3,691,747, 9-19-72, Cl. 57-135.000.
- Vilardi, Frank: *See—*
Meshbane, Alex; and Vilardi, Frank, 3,677,930.
- Vilas Industries Limited: *See—*
Favreau, Marcel, 3,701,506.
- Vilcins, Ilmar J.; and Frey, Robert J., to Signode Corporation. Electrically controlled hand tool for friction-fusing non-metallic strap. 3,669,799, 6-13-72, Cl. 156-359.000.
- Vilder, Andre. Vinyl boots, gloves or the like. 3,657,757, 4-25-72, Cl. 12-146.
- Vilen, Erik O., to Triangle Package Machinery Company. Wrapping machine. 3,631,653, 1-4-72, Cl. 53-378.
- Viles, Roger Stanley, to Marconi Instruments Limited. Adjustable frequency generator equipments. 3,684,977, 8-15-72, Cl. 331-183.000.
- Vilf, Fernando Zhozevich; and Lysenko, Alexandr Pavlovich. Homogeneous semiconductor with interrelated antibarrier contacts. 3,660,733, 5-2-72, Cl. 317-234.
- Vilh. Pedersen A/S: *See—*
Jacobsen, Erik Chresten, 3,643,534.
- Vilkas, Eugene P.; and Kazlauskas, Gasparas, to Astro-Arc Company. Automatic melt-thru welding method and apparatus. 3,702,915, 11-14-72, Cl. 219-137.000.
- Vilker, Simon Borisovich: *See—*
Kruglikov, Anatoly Abramovich; Nikolaeva, Militina; Vilker, Simon Borisovich; and Detkov, Viktor Vasilievich, 3,689,463.
- Vilkov, Fedor Nikolaevich; Negrimovsky, Mikhail Grigorevich; and Pasik, Alexei Nikolaevich. Haymaking machine wherein leaves are separated from stalks in the course of hay transportation. 3,631,661, 1-4-72, Cl. 56-364.
- Villa, Alfonso: *See—*
MacLean, Charles C., III; and Villa, Alfonso, 3,640,040.
- Villa, Jose L., to Thiokol Chemical Corporation. Method of making ethylene sulfide polymers by addition of stabilizers to reaction mixture prior to polymerization. 3,679,616, 7-25-72, Cl. 260-18.00r.
- Villalba, Fred A., Jr. Food mold. 3,671,008, 6-20-72, Cl. 249-155.000.
- Villalon, Michel: *See—*
Laboureur, Pierre; and Villalon, Michel, 3,634,191.
- Villaneu, Michel, to IBS Industrialized Building Systems, Incorporated. Prefabricated building panel having positioner means. 3,696,567, 10-10-72, Cl. 52-98.000.
- Villani, Luciano. Spring loaded spectacle hinge. 3,644,023, 2-22-72, Cl. 351-113.
- Villanueva, Antonio R., 1/2 to Wren, Holvy. Game stick and method of manipulating it. 3,674,263, 7-4-72, Cl. 273-1.00r.
- Villanueva, Jaime P.: *See—*
Lucas, Malcolm B.; Villanueva, Jaime P.; and Rowe, Stewart, 3,667,596.
- Villanueva, James G.: *See—*
Quinn, Thomas M.; and Villanueva, James G., 3,652,473.
- Villanueva, Jesus T.: *See—*
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- Villanueva, Juanito O.: *See—*
Garcia, Armando J.; Gunther, Gregory M.; and Villanueva, Juanito O., 3,690,030.
- Lewis, J. Stephen; Collins, Harold B.; Sapkus, Jurgis; and Villanueva, Juanito O., 3,693,288.
- Villard, Michel: *See—*
Combe, Christian; Clouet, Andre; Marchal, Michel; Villard, Michel; and Grenier, Pierre, 3,658,680.
- Villard, Oswald G., Jr., to United States of America, Navy. Automatic frequency control for suppressed carrier receivers. 3,704,420, 11-28-72, Cl. 325-329.000.
- Villari, Frank K.: *See—*
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- Villari, Frank K., to Kendall Company, The. Urine meter and drainage receptacles. 3,683,894, 8-15-72, Cl. 128-2.00f.
- Villasana, Armando P.: *See—*
Lewis, J. Stephen; Sapkus, Jurgis; and Villasana, Armando P., 3,696,553.
- Villasor, Angel P., to Westinghouse Electric Corporation. Seal lift-off mechanism. 3,632,117, 1-4-72, Cl. 277-3.
- Villavicencio, Eduardo Joel, to Process Evaluation and Development Corporation. Method for processing fibrous stalks. 3,688,345, 9-5-72, Cl. 19-7.000.
- Villax, Ivan, to International Rectifier Corporation. Production of oxytetracycline using streptomycetes alboblavus (ATCC 15388). 3,637,463, 1-25-72, Cl. 195-80.
- Ville, Frans Jan; Willems, Jozef Frans; and Pattijn, Hendrik Adolf, to Gevaert-Agfa N.V. Photographic elements containing carboxyalkyl polyglycol ethers and esters. 3,663,229, 5-16-72, Cl. 96-67.
- Villella, Thomas J.: *See—*
Krutz, Ronald L.; and Villella, Thomas J., 3,707,621.
- Villemaud, Jean Etienne. Conveyors intended to carry directly objects or objects mounted on supports. 3,675,754, 7-11-72, Cl. 198-20.000.
- Villeret, Michel: *See—*
Deschenes, Pierre A.; and Villeret, Michel, 3,694,639.
- Deschenes, Pierre A.; and Villeret, Michel, 3,707,712.
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Spaeth, Claus; and Wilhelm, Gunter, 3,688,448.
- Villers, Philippe; Allen, Martin A.; and Mulvaney, James M., to Computervision Corporation. Enhanced contrast semiconductor wafer alignment target. 3,660,157, 5-2-72, Cl. 117-212.000.
- Villers, Walter H.; and Johnson, Ernest B., to Ampex Corporation. Tape retaining reel cartridge. 3,677,495, 7-18-72, Cl. 242-197.000.
- Villey-Desmeserets, Franck Pierre Antoine: *See—*
Bouisse, Jean Marie Germain; Martel, Charles Etienne Georges; and Villey-Desmeserets, Franck Pierre Antoine, 3,706,283.
- Villiers, Ralph F.: *See—*
Yelin, Robert E.; and Villiers, Ralph F., 3,634,024.
- Yelin, Robert E.; Sitver, Leonard A.; and Villiers, Ralph F., 3,649,164.
- Villiers-Fisher, John F.: *See—*
Tourtellotte, John F.; Negra, John S.; Warshaw, Abe; and Villiers-Fisher, John F., 3,699,683.
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- Villiers-Fisher, John F.; and Kaupas, Philip F., to Chemical Construction Corporation. Process for urea synthesis. 3,636,106, 1-18-72, Cl. 260-555.
- Villiers-Fisher, John F., to Chemical Construction Corporation. Removal of sulfur dioxide from waste gases. 3,650,692, 3-21-72, Cl. 23-178.
- Villini, Gregorio, to Pellizzetti, Italo. Surface burner systems. 3,653,795, 4-4-72, Cl. 431-247.
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- Vilter Manufacturing Corporation: *See—*
Kocher, Erich J., 3,636,876.
- Vin Dick, James. Christmas tree lights. 3,676,662, 7-11-72, Cl. 240-10.00t.
- Vinal, Albert W., to International Business Machines Corporation. Coaxial anisotropic magnetic film storage device with burst cycle writing. 3,680,064, 7-25-72, Cl. 340-174.0qa.
- Vinarnick, Louis: *See—*
Blum, Paul; Lefrancois, Jacques; and Vinarnick, Louis, 3,705,101.
- Vinatieri, John D.: *See—*
Stiles, Hallett R.; and Vinatieri, John D., 3,636,268.
- Vince, Michael A.: *See—*
Cade, Ronald L.; and Vince, Michael A., 3,646,910.
- Kamola, Roman C.; Vince, Michael A.; Gundlach, Robert W.; and Gunther, Kenneth W., 3,704,524.
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- Vincent, Andrew W. Timer circuit for magnetic actuators. 3,706,011, 12-12-72, Cl. 317-151.000.
- Vincent, Bird J. Method of forming silicone rubber articles. 3,663,666, 5-16-72, Cl. 264-13.000.
- Vincent, Conway; and Garbe, Siegfried. Turbine driven cleaning tool. 3,688,339, 9-5-72, Cl. 15-387.000.
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- Vincent, Derek A.: *See—*
Gill, Edward W.; and Vincent, Derek A., 3,672,483.
- Vincent, Eugene: *See—*
Billon, Gerard; Henry, Jean Claude; and Vincent, Eugene, 3,700,848.
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- Vincent, Gerald G.; and Anderson, Thomas E., to De Soto, Inc. Water-dispersible polyimide coatings. 3,652,511, 3-28-72, Cl. 260-78.
- Vincent, Harold L.: *See—*
Hartlein, Robert C.; and Vincent, Harold L., 3,639,155.
- Vincent, James Henry, to American Standard, Inc. Collecting apparatus for electrostatic precipitators. 3,664,092, 5-23-72, Cl. 55-112.
- Vincent, Jean-Marie: *See—*
Gauthier, Charles; and Vincent, Jean-Marie, 3,667,886.
- Vincent, Jetta V.: *See—*
Hedgepeth, Edward B., 3,635,496.
- Vincent, John Ross: *See—*
Wiewirowski, Tadeusz K.; and Vincent, John Ross, 3,633,339.
- Vincent, Michel; Remond, Georges; and Poignant, Jean-Claude, to Societe en nom collectif "Science Union et Cie, Societe Francaise de Recherche Medicale". Cyclohexenyl acetic acid compounds. 3,697,588, 10-10-72, Cl. 260-514.00r.
- Vincent, Peter Inledon: *See—*
Rose, John Brewster; Mathews, Carl Fraser; Nield, Eric; and Vincent, Peter Inledon, 3,634,547.
- Vincent, Barbara Egee: *See—*
Casler, Nancy Lee Cecile; and Vincent, Barbara Egee, 3,682,641.
- Vincenty, Henry E., to Euclid, Inc. Exhaust system for a load dumping vehicle. 3,695,708, 10-3-72, Cl. 298-1.00h.
- Vincer, John C.: *See—*
McCune, Clarence G.; Vincer, John C.; and Graves, Kenneth E., 3,667,668.
- Vinch, Angelo N.: *See—*
Schnur, Earl J.; and Vinch, Angelo N., 3,654,539.
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- Vind, Harold P., to United States of America, Navy. Method and apparatus for supplying air. 3,656,276, 4-18-72, Cl. 55-46.
- Vind, Ove Andersen. Machine for producing and filling bags. 3,656,274, 4-18-72, Cl. 53-183.
- Vindez, Pierre G.: *See—*
Bohorquez, Luis; and Vindez, Pierre G., 3,679,320.
- Vindez, Pierre G.; and Bohorquez, Luis A., to Zephyr Manufacturing Co., Inc. Portable drill with power drawbar clamping device. 3,663,115, 5-16-72, Cl. 408-79.
- Vine, James: *See—*
Santilli, Vincent J.; Vine, James; and Cotterman, James W., 3,688,122.
- Vine, Raymond W.: *See—*
Emanuelson, Roger C.; Stewart, Robert C.; and Vine, Raymond W., 3,694,310.
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- Vines, John Murray: *See—*
Martin, Gerald Y.; and Vines, John Murray, 3,661,090.
- Vines, Raymond Francis: *See—*
Olson, John Henry; and Vines, Raymond Francis, 3,663,217.
- Vines, Sterling N.: *See—*
Halvorson, David O.; and Vines, Sterling N., 3,691,226.
- Vineyard, Billy D.: *See—*
Coran, Aubert Y.; and Vineyard, Billy D., 3,677,726.
Coran, Aubert Y.; and Vineyard, Billy D., 3,706,667.
- Vineyard, Billy D., to Monsanto Company. Mono- and bis-nitrogen-containing compounds. 3,647,691, 3-7-72, Cl. 252-51.5.
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Kincaid, Harrison S.; Hostettler, Fritz; and Vineyard, Harry, 3,651,021.
Kincaid, Harrison S.; Hostettler, Fritz; and Vineyard, Harry, 3,654,347.
- Vining, Roy H.: *See—*
Armstrong, William S., Jr.; Edwards, Webster H.; Laird, Joseph P.; and Vining, Roy H., 3,690,771.
Edwards, Webster H.; Miller, Earl A.; Scully, Thomas A.; Vining, Roy H.; and Wittman, David, 3,686,023.
- Vining, Thomas F.: *See—*
Neal, William J.; Richardson, Jacob C.; and Vining, Thomas F., 3,658,149.
- Vink, Adrianus Teunis: *See—*
Beekmans, Nicolaas Marinus; Heijne, Leopold; and Vink, Adrianus Teunis, 3,654,112.
- Vinnucimbe, Gordon: *See—*
Deakin, Gordon Asquith; Eastwood, Alan; and Vinnucimbe, Gordon, 3,690,204.
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- Vinogradov, Gleb Andreevich; Katrus, Oleg Alexandrovich; and Otkok, Anatoly Ilich. Apparatus for manufacturing rolled products from powdery materials. 3,689,209, 9-5-72, Cl. 425-79.000.
- Vinokur, David. Vehicle anti-theft device utilizing cigarette lighter as timer. 3,641,492, 2-8-72, Cl. 340-65.
- Vinokurov, Vasily Ivanovich: *See—*
Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pryanov, Valentin Nikiforovich; Goloykin, Jury Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.
- Vinsani, Mario: *See—*
Bertolini, Gianni; and Vinsani, Mario, 3,696,254.
Kassabgi, Georges; and Vinsani, Mario, 3,657,527.
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- Vinson, Billy H., to Integrated Controls, Inc. Method and apparatus for photographing oscilloscope traces with conventional camera. 3,696,720, 10-10-72, Cl. 95-10.00c.
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Vinson, Paul, 3,673,901.
Vinson, Paul, 3,698,232.
- Vinson, Leonard J.; and Masurat, Thomas, to Lever Brothers Company. Lipid-protein membrane and process. 3,655,416, 4-11-72, Cl. 106-155.
- Vinson, Leonard J.; and Masurat, Thomas, to Lever Brothers Company. Extraction of lipid and cellular fractions from the stratum corneum of animal skin. 3,660,566, 5-2-72, Cl. 424-95.
- Vinson, Paul, to Vinson Industries, Inc. Shuttle press. 3,673,901, 7-4-72, Cl. 83-14.000.
- Vinson, Paul, to Vinson Industries, Inc. Toolholder. 3,698,232, 10-17-72, Cl. 72-482.000.
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Levin, Ezra, 3,687,819.
- VioBin Corporation, mesne: *See—*
Levin, Ezra, 3,674,657.
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- Viola, Leonard J.; and Gans, Eugene H., to Richardson-Merrell Inc. Compacted regenerated cellulose sponges and method of preparing the same. 3,634,183, 1-11-72, Cl. 161-159.
- Viola, Marino Roberto, to Laboratorio Chimico Farmaceutico E. Granelli S.p.A. Method of preparing injectable liver extracts. 3,642,983, 2-15-72, Cl. 424-106.
- Viola, Ronald J.; and Keeney, Lawrence V., to Rapid Electric Co., Inc. Reciprocating frusto-conical plug switch contact and assembly. 3,703,621, 11-21-72, Cl. 200-163.000.
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- Violleau, Andre; and Coffy, Rene Louis, to Sud-Aviation Societe Nationale de Constructions Aeronautiques. Method and apparatus for impregnating fabrics, more particularly glass cloths, with plastics. 3,653,174, 4-4-72, Cl. 53-21.
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Kalopissis, Gregoire; and Viout, Andre, 3,693,633.
Lachamp, Felix; Viout, Andre; and Vanlerberghe, Guy, 3,642,980.
- Vipond, Edward W.: *See—*
Lees, Harold D.; Evans, Paul F.; Maltz, Martin S.; and Vipond, Edward W., 3,692,659.
- Virey, Claude: *See—*

- Guestaux, Claude; Leaute, Jean; Virey, Claude; and Vial, Jacques, 3,658,573.
- Virginia Chemicals Inc.: *See—*
Batchelor, Gordon S.; and Nixon, Dalbro R., 3,700,200.
Kise, Mearl A.; and Ellis, Leonard C., 3,647,876.
Kise, Mearl A.; and Ellis, Leonard C., 3,672,829.
Murray, William Bruce; Kise, Mearl A.; and Kelly, Thomas Edward, 3,669,616.
- Nixon, Dalbro R., Jr.; McIlhenny, David J.; and Harrell, Marvin L., 3,632,020.
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- Shastri, Shiri, 3,669,895.
- Zeek, Elwood R., 3,680,707.
- Virginia Polytechnic Institute Educational Foundation: *See—*
Moore, Walter E. C., 3,666,629.
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Marforio, Nerino, 3,669,049.
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- Virnelson, Robert Craig, to Buckeye Ribbon & Carbon Company. Resinous microporous transfer structure. 3,682,848, 8-8-72, Cl. 260-2.50m.
- Virnig, Herbert J., to Mass Feeding Corporation. Food tray having a laminated closure that is heat-retractable. 3,672,916, 6-27-72, Cl. 99-171.00h.
- Virnoche, Paul R.: *See—*
Kufnir, Frederick W.; Virnoche, Paul R.; Allen, Donald J.; Gokey, Phillip E.; and Rose, Frederick A., 3,694,825.
- Viropac, Inc.: *See—*
Trautner, Ferdinand A., 3,655,842.
- Virsberg, Lars-Goran: *See—*
Andersson, Anders R.; and Virsberg, Lars-Goran, 3,670,192.
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- Virtanen, Rauno Erkki; and Kivalo, Pekka. Method for establishing the zones occurring in electrophoresis and for their quantitative determination. 3,649,499, 3-14-72, Cl. 204-180.
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Scharf, Harold; Bender, Charles E.; and Fraser, Douglas S., 3,649,465.
- Virtue, Julian A. Baby stroller. 3,653,681, 4-4-72, Cl. 280-36.
- Virva, John, to Admiral Corporation. Multiple speaker enclosure with single tuning. 3,687,220, 8-29-72, Cl. 181-31.00b.
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Fechtig, Bruno; Vischer, Ernst; Bickel, Hans; Bosshardt, Rolf; and Urech, Jakob, 3,697,515.
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- Vischulis, George; and Sedlak, Charles K., to Zerand Corporation. Electropneumatic transducer and pneumatic web tensioning system. 3,635,240, 1-18-72, Cl. 137-495.
- Vischulis, George; and Sedlak, Charles K., to Zerand Corporation. Universal web splicer. 3,647,600, 3-7-72, Cl. 156-504.
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Craven, Harry J.; Hannahan, William F.; and Viscusi, James J., 3,685,931.
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Mulqueen, John J.; and Schoettly, Edward, 3,676,824.
Perry, Charles C., 3,651,584.
- Vishnitsky, Alexandr Lazarevich; Shapiro, Lev Mironovich; Kazantsev, Evgeny Andreevich; Shvartsman, Benjamin Markovich; Shilov, Georgy Petrovich; Nemilov, Evgeny Fedorovich; Baisupov, Izmail Abdulovich; Masterov, Vasily Fomich; and Rumyantsev, Alexandr Steanovich. Apparatus for electrochemical burring and blunting sharp edges of current-conducting articles. 3,705,848, 12-12-72, Cl. 204-213.000.
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Waara, William A., 3,645,380.
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Frank, Jack D.; and Perretta, Michael L., 3,636,777.
- Visitation, Aniceto R. Toasting apparatus. 3,665,842, 5-30-72, Cl. 99-332.
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Kuiper, Adrianus; Brouns, Jan Willem; and Visser, Bauke, 3,694,688.
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Oomen, Joris Jan Cornelis; and Visser, Jan Adrianus, 3,644,150.
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Langner, Carl G.; and Visser, Robert C., 3,699,691.
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Visser, Herbert, 3,657,785.
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Horrom, Bruce W.; Crovetti, Aldo J.; and Viste, Kenneth L., 3,640,699.
Horrom, Bruce W.; Crovetti, Aldo J.; and Viste, Kenneth L., 3,677,739.
McNulty, Patrick J.; Swithenbank, Colin; Viste, Kenneth L.; and Von Meyer, William C., 3,661,991.
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Neff, Ray A.; and Gowing, Dan D., 3,705,405.
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Morgan, Henry Z., 3,651,977.
- Visual Environments, Inc.: *See—*
De Pasquale, Louis, 3,686,505.
- Visual Graphics Corporation: *See—*
Friedel, Murray, 3,632,204.
Friedel, Murray, 3,653,904.
Friedel, Murray, 3,665,825.
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Nahum, Lucio Sion, 3,681,318.
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- Vitale, Eupremio, to Alfa Farmaceutici S.p.A. Nicotinic acid ester. 3,637,717, 1-25-72, Cl. 260-295.5.
- Vitale, Joseph Michael, to Avnet, Inc. Ignition cable. 3,680,027, 7-25-72, Cl. 338-214.00.
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Erwin, John R.; and Vitale, Nicholas G., 3,639,075.
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Plakas, Chris J., 3,690,832.
- Vitali, Romano: *See—*

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- Vitalo, Alfred Emanuel, to Bell Telephone Laboratories, Incorporated. Automatic personal signaling system. 3,668,317, 6-6-72, Cl. 179-18.0bf.
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- Mamalis, Patrick, 3,632,583.
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- Vits, Hilmar, 3,678,599.
- Vitt, Stanley P.: *See—*
- Herbert, John T.; Sullivan, Paul E.; and Vitt, Stanley P., 3,680,895.
- Vitta Corporation: *See—*
- Ettre, Kitty S.; and Castles, George Richard, 3,655,496.
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- Colombini, Ariano; Viviani, Bruno; Massimino, Antonio; and Sironi, Giuseppe, 3,684,492.
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- Friedman, Maurice; Miller, Edward; and Pessiki, Anthony J., 3,649,877.
- Vizsolyi, Andrew Imre: *See—*
- Mackiw, Vladimir Nicolaus; Veltman, Herbert; and Vizsolyi, Andrew Imre, 3,637,371.
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- Vlaardingerbroek, Marinus Teunis: *See—*
- Acket, Gerard Adriaan; and Vlaardingerbroek, Marinus Teunis, 3,648,185.
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- Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Ilevich; Zhabin, Jury Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhikhin, Vladimir Petrovich; Rubnikovich, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Ussyaslav Iosifovich; Sharipova, Ravia Davlyatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorievich, 3,654,325.
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- Snedeker, Marion L., 3,673,486.
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- Anthes, John A.; and Vlnaty, Joseph, 3,635,456.
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- Pencik, Erich; Hermsdorf, Horst; and Vltavsky, Horst, 3,684,565.
- Vob, Alfred: *See—*
- Heinzelmann, Walter; Flach, Karl-Egon; Vob, Alfred; and Kroschel, Heinz, 3,682,727.
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- Hall, John B.; and Vock, Manfred, 3,694,232.
- Vock, Manfred H.: *See—*
- Brodnitz, Michael H.; Pascale, John V.; and Vock, Manfred H., 3,686,323.
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- Drahonovsky, Michael, 3,637,162.
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- Freudenschuss, Otto, 3,637,125.
- Keznickl, Eduard, 3,640,441.
- Muszumanski, Trude; and Kurz, Gunter, 3,694,056.
- Pammer, Gottfried; and Walz, Karl, 3,666,206.
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- Scheiber, Robert, 3,657,490.
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- Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov, Nikolai Nikolaevich; Purmalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Deretsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev, Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and Rits, Leonid Borisovich, 3,683,683.
- Voegelin, Howard J.: *See—*
- Lapointe, Lloyd J.; and Voegelin, Howard J., 3,677,468.
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- Brandt, Fritz; Ernst, Wolfram; and Voegtlen, Dieter, 3,685,018.
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- Baltz, Albert L.; and Voeke, Elmer E., 3,675,638.
- Voelckers, William W.: *See—*
- Gardner, Ray E.; Voelckers, William W.; and Negus, George T., 3,661,667.
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- Greenberg, Walter H.; and Voelker, Walter D., 3,671,159.
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- Schnegg, Robert; Pelousek, Herbert; Dippolhofer, Robert; Wiegrefe, Wolfgang; Voelz, Hans-Georg; and Kienast, Gerhard, 3,674,747.
- Voemel, Wolfgang: *See—*
- Berger, Herbert; Stach, Kurt; Dold, Otto; Voemel, Wolfgang; and Sauer, Winfriede, 3,658,796.
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- Schmidt, Hans Joachim; and Voeste, Theodor, 3,701,793.
- Voet, Andries, to Huber, J. M., Corporation. Bonding metals to elastomer systems. 3,676,255, 7-11-72, Cl. 156-306.000.
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- Arad, Yael; Levy, Moshe; Miller, Israel R.; and Vofsi, David, 3,649,666.
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- Asscher, Meir; Katchalsky, Aharon; and Vofsi, David, 3,651,019.
- Voge, Andrew: *See—*
- Lincoln, Thomas C.; and Voge, Andrew, 3,655,925.
- Voge, Hans-Otto: *See—*
- Kramer, Josef; Irmischer, Klaus; Voge, Hans-Otto; and Halpaap, Herbert, 3,689,663.
- Voge, Hervey H.: *See—*
- Robinson, John K.; and Voge, Hervey H., 3,700,749.
- Vogel, Alfred M.: *See—*
- Newman, Douglas A.; Vogel, Alfred M.; and Brown, Albert E., 3,658,567.
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- Randall, David I.; and Vogel, Calvin, 3,699,195.
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- Adam, Vernon F.; and Vogel, Carl A., 3,687,319.
- Vogel, Carl-Heinz: *See—*
- Longo, Hans-Eberhard; Keller, Wolfgang; and Vogel, Carl-Heinz, 3,655,345.
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- Poole, John W.; Thorpe, Merle L.; and Vogel, Charles E., 3,694,618.
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- Hoergerle, Karl; Muller, Jean-Claude; Vogel, Christian; and Raupf, Jurg, 3,646,136.
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- Reinking, Klaus; Vogel, Helmut; Hechelhammer, Wilhelm; and Schneider, Kurt, 3,634,574.
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- Loudas, Basil L.; and Vogel, Herward A., 3,681,292.
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Vogel, Virgil W.; and Vogel, Paul W., 3,634,127.
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- Vogel, Paul W.; and Sillicker, John H., to Meat Technology, Inc. Meat processing. 3,705,813, 12-12-72, Cl. 99-194.000.
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Beckwith, Sterling; and Vogel, Robert E., 3,648,482.
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Elliott, George E., Jr.; Salomon, Jean; and Vogel, Roger F., 3,639,272.
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Coulon, Edward I.; Miller, Benny Jay; and Mohr, Dale C., 3,698,274.
- Vogel, Virgil W.; and Vogel, Paul W., to Bird Provision Co. Method of preparing poultry products for prolonged storage. 3,634,127, 1-11-72, Cl. 99-194.
- Vogel, Walter H.: *See*—
James, Robert C.; Vogel, Walter H.; and Sorenson, Richard D., 3,680,446.
Pringle, Frank E., Jr.; West, George Allan; Vogel, Walter H.; Safranski, Richard W.; and Drake, Frederick R., 3,681,890.
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Melcher, Kurt; and Vogel, Wilhelm, 3,666,232.
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- Vogelbruch, Willi: *See*—
Bayer, Eduard; and Vogelbruch, Willi, 3,653,867.
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Brunner, Hans A.; and Vogeleer, George B., 3,673,834.
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- Vogelgesang, Peter J.; and Holm, John D., to Minnesota Mining and Manufacturing Company. Magnetic viewer for disks having magnetic polarity alignment. 3,668,699, 6-6-72, Cl. 340-373.000.
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Gresham, William Franklin; and Vogelpohl, Alfons Franz, 3,635,926.
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Stanford, James R.; and Vogelsang, Paul G., Jr., 3,692,881.
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- Vogelsberg, R. Eric: *See*—
Godoy, Humbert C.; and Vogelsberg, R. Eric, 3,706,879.
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Briggs, Charles A., Jr.; and Vogelsberg, Walter H., 3,693,110.
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Hoffman, Herwig; Jescher, Gerhard; Kuerzinger, Alfred; Schmidt, Erwin; Schoenleben, Willibald; Voges, Dieter; and Winderl, Siegfried, 3,691,205.
- Voges, Fred P.: *See*—
Maskell, Richard N.; Merrick, William C.; and Voges, Fred P., 3,656,256.
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Stadler, Georg; and Vogg, Erwin, 3,674,694.
- Vogiatzis, John P.: *See*—
Kuo, Chiang-Hai; Nordgren, Ronald P.; and Vogiatzis, John P., 3,636,762.
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- Vogl, Norbert G., Jr.: *See*—
Beausoleil, William F.; Ordemann, Fred A., Jr.; Pricer, Wilbur D.; and Vogl, Norbert G., Jr., 3,648,255.
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- Vogler, Don E. E.: *See*—
Brown, Robert T.; Vogler, Don E. E.; and Marsh, Gerald A., 3,661,409.
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Valbona, Bruno M.; Conlon, William J.; and Voglesonger, Harry M., 3,695,006.
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- Vogt, Clarence L., to Bobrick Aero-Missile Products. Pressure relief valve. 3,640,306, 2-8-72, Cl. 137-512.1.
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Loft, John T.; Plovan, Steven G.; and Vogt, Clifford M., 3,690,977.
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Keller, Gunter; Knauff, Gunter; Skuin, Petar; and Vogt, Edwin, 3,649,817.
Knauff, Gunter; Koederitz, Fritz; Painke, Helmut; Reichl, Leopold; Lampe, Hans H.; Vachenaue, Robert; Vogt, Edwin; and Weber, Hermann, 3,659,273.
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Poeste, Hans-Peter; and Vogt, Gerd, 3,707,439.
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Schulz, Walter F.; and Vogt, Herwart C., 3,657,192.
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Fitch, John L.; and Vogt, Thomas C., Jr., 3,642,068.

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Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; Glaser, Hermann; and Dyrschka, Helmut, 3,637,819.
Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; Glaser, Hermann; and Dyrschka, Helmut, 3,650,986.
Sennewald, Kurt; Vogt, Wilhelm; Erpenbach, Heinz; and Glaser, Hermann, 3,655,747.
Sennewald, Kurt; Erpenbach, Heinz; Vogt, Wilhelm; Lork, Winfried; and Prinz, Peter, 3,691,096.
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Sauerbruch, Ernst; Scherrer, Donat; and Vogt, Willy, 3,674,400.
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Rotolico, Anthony J.; Vogts, William A.; and Thompson, Henry C., 3,632,952.
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Shepard, Francis H., Jr., 3,683,110.
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Ernst, Hans; Semmler, Jürgen; Vohler, Otto; and Rubisch, Ottmar, 3,659,139.
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Koch, Heinz; and Vohringer, Eugen Martin, 3,687,423.
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Ranz, Erwin; Von Rintelen, Harald; Pfeiffenschneider, Raymond; and Voight, Armin, 3,637,388.
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Lewis, Alan E.; and Voight, Frederick W., Jr., 3,651,125.
Lewis, Alan E.; and Voight, Frederick W., Jr., 3,676,485.
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Picard, Jean P.; and Voight, H. William, Jr., 3,694,278.
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Lewis, Alan E.; and Voigt, Frederick W., Jr., 3,644,096.
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Harms, Luhr; and Voigt, Gunter, 3,694,916.
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Massar, Ernst; and Voigt, Hans, 3,691,491.
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Burba, Christian; Drawert, Manfred; Voigt, Hartmut; and Griebisch, Eugen, 3,697,458.
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Fischer, Gerd; Straub, Dieter; and Voigt, Heinz Eberhard, 3,678,301.
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Sikorsky, Michael Frank; and Voigt, Herman Ewald, 3,632,889.
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Brinkmann, Gerhard; and Muller, Frohmuth, 3,661,450.
Papke, Friedrich, 3,675,552.
Reiche, Wilhelm; and Mehlitz, Dieter, 3,645,181.
Tronnier, Albrecht; Eggert, Joachim; and Uberhagen, Fritz, 3,642,351.
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Delair, Jean-Paul; Raisin, Jean-Pierre; and Voisin, Eugene, 3,700,153.
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Mullenhoff, James A.; and Voisinnet, Walter E., 3,657,036.
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Bullock, Michael K.; Miller, Myrl J.; and Voit, William F., Jr., 3,679,099.
- Voith Getriebe KG: *See*—
Dick, Heinrich, 3,665,963.
Dick, Heinrich, 3,671,814.
Gruschka, Bernhard; and Herrmann, Berthold, 3,691,768.
Muller, Helmut, 3,645,351.
Muller, Helmut; and Pistl, Gustav, 3,677,004.
- Voith, J. M., G.m.b.H.: *See*—
Fork, Werner, 3,700,349.
Gross, Harald, 3,690,787.
Schiel, Christian, 3,647,621.
Thumm, Helmut; and Schaich, Willy, 3,690,572.
Tra, Josef, 3,692,183.
- Voith, J. M. GmbH, Firma: *See*—
Huesing, Heinz, 3,684,422.
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Kaderbek, Charles J.; and Vojir, Franks, 3,684,850.
- Voland, Elmo W.: *See*—
Linn, Wallace L.; and Voland, Elmo W., 3,704,351.
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Nakamaye, Kay L.; Slaugh, Lynn H.; Spooncer, William W.; and Volger, Hendrik C., 3,641,170.
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Vainer, Shimon Abramovich; and Vainer, Savely Abramovich, 3,686,504.
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Klingensmith, James D.; and Volinsky, George, Jr., 3,664,080.
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Maximovich, Boleslav Ivanovich; Dudko, Daniil Andreevich; Agafonov, Nikolai Georgievich; Maximov, Igor Petrovich; Andreev, Vadim Grigorievich; Lepilov, Nikolai Yakovlevich; Svinov, Alexei Kapitonovich; Slonimsky, Alexandr Borisovich; Volk, Boris Zakharovich; Gubin, Alexandr Ivanovich; and Katsman, Berta Osipovna, 3,677,330.
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Hays, Robert Guy; Pennell, Charles Ronald; Reed, Edwin Emmett; and Volk, Charles Edward, 3,690,969.
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Kish, George R.; and Volker, Edward L., 3,659,902.

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Drugmand, Lester D.; and Volker, John F., 3,673,387.
- Volker, Theodor: *See—*
Moser, Kurt; Hochli, Beat; Volker, Theodor; and Wicht, Paul, 3,651,026.
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- Volkers, Daphne: *See—*
Wille, Edward N.; and Volkers, Walter K., 3,680,128.
- Volkers, Karel Hero: *See—*
Te Kronnie, Gerrit Hendrik; Volkers, Karel Hero; and Poulsen, Poul Albert, 3,659,346.
- Volkers, S. William: *See—*
Baxter, Carlton J.; and Volkers, S. William, 3,650,617.
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Cade, Ronald L.; and Volkers, Stewart W., 3,682,538.
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Cade, Ronald L.; and Volkers, Stewart William, 3,649,262.
- Volkers, Walter K.: *See—*
Wille, Edward N.; and Volkers, Walter K., 3,680,128.
- Volkert, Otto: *See—*
Hoffmann, Horst; Krauch, Carl Heinrich; Otto, Hans-Werner; and Volkert, Otto, 3,674,494.
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- Volkman, Werner K.: *See—*
Graf, Carlton E.; and Volkman, Werner K., 3,694,718.
- Kolatorowicz, Edwin E.; and Volkman, Werner K., 3,671,836.
- Volkman, Werner Karl: *See—*
Graf, Carlton Eugene; Skogsholm, Einar Aasen; and Volkman, Werner Karl, 3,641,421.
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Stroganov, Genrikh Borisovich; Savitsky, Evgeny Mikhailovich; Tikhova, Nina Mikhailovna; Terekhova, Vera Fedorovna; Volkov, Mstislav Vasilievich; Sivash, Konstantin Mitrofanovich; and Borodkin, Vladislav Sergeevich, 3,687,135.
- Volkov, Timofei Mikhailovich: *See—*
Mikhelis, Konstantin Alexandrovich; Fomina, Alexandr Sergeevna; Murumets, Kirill Vladimirovich; Ulanen, Yalmar Semenovich; Kotov, Anatoly Mikhailovich; Volkov, Timofei Mikhailovich; Itsikson, Boris Semenovich; Suurmaa, Raivo Alexandrovich; Viks, Paavo Yaanvich; and Berestovsky, Georgy Grigorievich, 3,705,793.
- Volkov, Valentin Vladimirovich: *See—*
Erlykin, Ivan Ivanovich; Vasin, Alexandr Ivanovich; Korotkov, Mikhail Mikhailovich; Maximov, Vadim Yakovlevich; Matveev, Ivan Ivanovich; Kadyshov, Vladimir Alexandrovich; Volkov, Valentin Vladimirovich; Firscl, Vladlen Borisovich; Bulatkin, Vladimir Dmitrievich; Malekhanov, Igor Evgenievich; and Suldin, Stanislav Nikolaevich, 3,693,570.
- Volkswagenwerk Aktiengesellschaft: *See—*
Aldag, Walter, 3,651,883.
- Baumgartner, Helmut, 3,707,263.
- Blau, Werner; and Gerdes, Theo, 3,667,642.
- Doehring, Ekkehard; and Kirschner, Peter, 3,680,407.
- Duren, Rainer; and Neidig, Klaus, 3,656,098.
- Ehrenberg, Hans Joachim, 3,697,213.
- Erck, Karl, 3,672,109.
- Gilewski, Heinz; and Wolf, Jurgen, 3,704,694.
- Henning, Bodo, 3,675,505.
- Hoyer, Ekkehard, 3,649,070.
- Kirschner, Peter, 3,638,511.
- Klebb, Horst, 3,670,536.
- Klein, Heinz, 3,662,721.
- Morchen, Wolfgang; Hucho, Wolf Heinrich; and Janssen, Lutz Joachim, 3,638,551.
- Safra, Leon; Beifuss, Horst; Bormann, Hans; and Rost, Gunter, 3,685,242.
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- Urban, Norbert, 3,666,139.
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Bien, Hans-Samuel; Hohmann, Walter; Vollmann, Heinrich; and Heinrich, Leister, 3,704,252.
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- Mertens, Peter; and Vollmann, Heinrich, 3,651,082.
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Ehm, Karl; and Vollmecke, Hermann, 3,685,378.
- Vollmer, Brigitte: *See—*
Schmidtke, Martin; Ruttenauer, Winfried; Penzl, Reinhold; and Vollmer, Brigitte, 3,646,305.
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Lindback, Ulf Robert Oscarson; and Vollmer, Herman Josef Burghardt, 3,651,263.
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Wehren, Peter; Vollmer, Klaus; Guenther, Wolfgang; and Kick, Rolf, 3,687,790.
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- Vollmer, Udo: *See—*
Stier, Otto; Kuhn, Heinz; and Vollmer, Udo, 3,674,083.
- Vollmer Werke Maschinenfabrik GmbH: *See—*
Stier, Otto; Kuhn, Heinz; and Vollmer, Udo, 3,674,083.
- Vollrath, Arthur E., to Electronic Enterprises, Inc. Remote electrically controlled rearview mirror. 3,634,002, 1-11-72, Cl. 350-289.
- Vollrath Co., The: *See—*
Rickmeier, Carl H., Jr., 3,664,553.
- Rickmeier, Carl H., Jr.; and Platkus, Walter, 3,683,452.
- Vollrath, Robert; Nuerrenbach, Axel; and Adolphi, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Substituted chrysanthemumates. 3,673,215, 6-27-72, Cl. 260-332.20r.
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Shepelyakovsky, Konstantin Zakharovich; Ushakov, Boris Konstantinovich; Devyatkin, Vasily Petrovich; Devyatkov, Vladimir Fedorovich; Shakhov, Vasily Ivanovich; Kachkanov, Nikolai Nikolaevich; Gazarov, Leon Alexandrovich; Pchelkina, Valentina Mikhailovna; Drbunov, Mikhail Alexandrovich; and Vologdin, Vladislav Valentinovich, 3,682,519.
- Voloshin, Petr Stepanovich: *See—*
Vagin, Alexei Alexeevich; Yablonsky, Stanislav Valerievich; Voloshin, Petr Stepanovich; Sharov, Nikolai Grigorievich; Shiberin, Viktor Ivanovich; Novakovsky, Vladimir Efimovich; Kolpakov, Grigory Vasilievich; Ivanov, Mark Efremovich; Lindin, Viktor Mikhailovich; and Lipsky, Daniil Yakovlevich, 3,700,364.
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- Volpe, Jean: *See—*
Mazzarelli, Peter; and Volpe, Jean, 3,693,993.
- Volpe, Rocco P.: *See—*
Lindemann, Martin K.; and Volpe, Rocco P., 3,645,952.
- Volpin, Mark Efimovich: *See—*

- Korshak, Vasily Vladimirovich; Volpin, Mark Efimovich; Sergeev, Vladimir Alexandrovich; Shitikov, Valentin Kuzmich; and Kolomnikov, Igor Sergeevich, 3,705,131.
- Volpp, Gert P.: *See—*
Hills, William A.; and Volpp, Gert P., 3,665,000.
- Voltronics Corporation: *See—*
Newman, Richard J.; Mittler, Martin A.; and Blickstein, Martin J., 3,679,940.
- Volu-Soi Chemical and Manufacturing Company, Inc.: *See—*
Smith, Anthony William, 3,682,321.
- Volunteer Enterprises, Inc.: *See—*
Frix, Lee R., 3,695,143.
- Volupte, Inc.: *See—*
Vastano, Alphonso N., 3,674,039.
- Volz, Hans G.: *See—*
Kienast, Gerhard; Peilstocker, Gunter; Volz, Hans G.; and Wiegrefe, Wolfgang, 3,663,494.
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Priuer, Hubertus; Vom Dorp, Walter; and Zeunert, Fritz, 3,688,643.
- Vom Rath, Herbert: *See—*
Kundt, Edmund; Klaiber, Max; Leitz, Wilfried; and Vom Rath, Herbert, 3,696,955.
- Vomel, Wolfgang: *See—*
Berger, Herbert; Gall, Rudi; Merdes, Hartmut; Stach, Kurt; Sauer, Winfried; and Vomel, Wolfgang, 3,706,745.
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- Von Behren, Robert A., to Minnesota Mining and Manufacturing Company. Belt driven tape cartridge. 3,692,255, 9-19-72, Cl. 242-192.000.
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Wagner, Kuno; and Von Bonin, Wulf, 3,654,106.
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- Von Bonin, Wulf; Muller, Erwin; and Wagner, Kuno, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethanes process and product prepared from aliphatic polycarbonates containing in situ polymerized unsaturated compounds. 3,637,909, 1-25-72, Cl. 260-859.
- Von Bonin, Wulf; Niemann, Horst; and Ott, Karl-Heinz, to Farbenfabriken Bayer Aktiengesellschaft. Thermoplastic molding composition containing maleic imide copolymers and rubbery polymers. 3,651,171, 3-21-72, Cl. 260-857.
- Von Bose, Robert J., to LTV Aerospace Corporation. Survey apparatus. 3,680,958, 8-1-72, Cl. 356-141.000.
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- Von Brachel, Hanswilli; and Hintermeier, Karl, to Cassella Farbwerke Mainkur Aktiengesellschaft. Cycloaliphatic sulfides containing epoxide groups. 3,637,762, 1-25-72, Cl. 260-348.
- Von Bramer, Paul T.: *See—*
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- Von Chiari, Ernst: *See—*
Petersen, Ulrich; Von Chiari, Ernst; and Brutsch, Wilhelm, 3,661,005.
- Von Cleve, Hans-H.: *See—*
Knirsch, Hermann; and Von Cleve, Hans-H., 3,660,980.
- Von Conrad, Eugen; Rosner, Kurt; and Meyer, Ludwig, to Hazemag Hartzkleinerungs- und Zementmaschinenbau Gesellschaft m.b.H. Method of processing effluent sludge. 3,659,792, 5-2-72, Cl. 241-21.
- von den Benken, Elisabeth. Shoe molded by induction heating. 3,641,688, 2-15-72, Cl. 36-43.
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Rausch, Wilfried; von der Decken, Claus Benedikt; and Bachus, Klaus-Peter, 3,650,894.
- Von der Eltz, Hans-Ulrich; and Gross, Richard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Method for one-bath dyeing of blends consisting of synthetic and cellulose fibres. 3,649,161, 3-14-72, Cl. 8-21.
- Von der Eltz, Hans-Ulrich; Jeths, Johannes; and Boecker, Alfons Bernhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for dyeing mixtures of polyester and polyacrylonitrile fibers in one bath. 3,672,815, 6-27-72, Cl. -21.00a.
- von der Eltz, Hans-Ulrich; Birke, Walter; Kunze, Wolfgang; Taunus, Hofheim; and Schon, Franz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Removal of polyester oligomers with chlorofluoroalkanes and methylene chloride treatmet of polyester fibers. 3,679,349, 7-25-72, Cl. 8-17.000.
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- Von der Heide, Elmer J., to Thiokol Chemical Corporation, mesne. Process for producing a continuous non-woven fabric. 3,701,700, 10-31-72, Cl. 156-72.000.
- Von der Mozel, Hans A., to Bio-Controls Corporation. Method and apparatus for controlling anal incontinence. 3,650,275, 3-21-72, Cl. 128-407.
- Von der Ohe, Wilfried, to Telefunken Patentverwertungsgesellschaft m.b.H. Circuit for connecting a television set to a recording instrument. 3,634,618, 1-11-72, Cl. 178-6.6.
- Von der Osten, Henning. Stackable table service. 3,642,165, 2-15-72, Cl. 220-23.83.
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Jung, Margarete; and Von Doehren, Hans H., 3,668,012.
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Thiele, Henry; Von Doring, Tilo; and Wegner, Gerd, 3,636,753.
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Doll, Martin; and Von Drehe, Frank, 3,670,345.
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Foster, John R.; and Hunt, Larry R., 3,703,741.
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Milkowski, Wolfgang; Stuhmer, Werner; and Von Eickstedt, Klaus-Wolf, 3,641,125.
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Crovetti, Aldo Joseph; and Von Esch, Anne Mary, 3,651,054.
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Wagner, Karl; and Von Fischern, Bernard, 3,699,857.
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- Von Haumeder, Walter. Method of refining molten metal. 3,684,488, 8-15-72, Cl. 75-52.000.
- Von Hippel, Eric A., to Graphic Sciences, Inc. Paper feed mechanism. 3,640,482, 2-8-72, Cl. 242-67.1.
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- Von Hippel, Hans-Joachim. Longwall mining apparatus. 3,640,574, 2-8-72, Cl. 299-32.
- Von Hippel, Hans-Joachim. Method and apparatus for supporting the roofs in underground excavations. 3,672,174, 6-27-72, Cl. 61-45.000.
- Von Hofe, George W., to New Jersey Machine Corporation. Continuous strip of label web. 3,697,300, 10-10-72, Cl. 117-15.000.
- Von Holdt, John W. Release apparatus for die casting assembly. 3,642,417, 2-15-72, Cl. 425-443.
- Von Holdt, John W. Heated feeder system for die casting apparatus. 3,642,418, 2-15-72, Cl. 425-447.
- Von Hollen, Dieter; and Holder, Heinz, to Mannesmann Aktiengesellschaft. Method for manufacturing welded pipes tubes with helical seam. 3,697,718, 10-10-72, Cl. 219-62.000.
- Von Hollen, John. Hand drill and drill press. 3,640,635, 2-8-72, Cl. 408-101.
- Von Hornstein, Wolf Freiherr; Richt, Hubert O.; and Liebl, Albert. Tape tension control means with sensing levers, particularly for magnetic sound recorders. 3,695,549, 10-3-72, Cl. 242-189.000.
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Meindl, Hubert; Ackermann, Hans; and Von Kaenel, Fred, 3,655,665.
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Kabbe, Hans-Joachim; and von Konig, Anita, 3,695,880.
Kampfer, Helmut; von Konig, Anita; Ranz, Erwin; von Rintelen, Harald; Mayer, Dietmar; and Sasse, Klaus, 3,674,479.
Kampfer, Helmut; von Konig, Anita; Ranz, Erwin; von Rintelen, Harald; Mayer, Dietmar; and Sasse, Klaus, 3,674,480.
Liebe, Werner; Petersen, Siegfried; and von Konig, Anita, 3,671,242.
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- von Konig, Anita; Moll, Franz; Muller-Bardorff, Wolfgang; and Saleck, Wilhelm, to Agfa-Gevaert Aktiengesellschaft. Silver halide emulsions containing bis-heterocyclic n-containing compounds as antifoggants. 3,640,719, 2-8-72, Cl. 96-109.
- von Konig, Anita; and Timmler, Helmut, to Agfa-Gevaert Aktiengesellschaft. Antibronzing agents for photographic silver images. 3,647,451, 3-7-72, Cl. 96-52.
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- Von Konorring, Enar Sixten. Floating body. 3,694,837, 10-3-72, Cl. 9-311.000.
- Von Krusenstierna, Otto, to Allmanna Svenska Elektriska Aktiebolaget. Fuel cell device utilizing air as oxidant. 3,634,140, 1-11-72, Cl. 136-86.
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- Von Kulmer, Ulrich, to Maschinenfabrik Kleindienst & Co. Apparatus for washing vehicles. 3,705,435, 12-12-72, Cl. 15-21.00r.
- Von Kutepow, Nikolaus; Magin, August; and Joschek, Hans-Ingo, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Catalytic oxidation of alkyl-substituted hydroquinones to the corresponding p-benzoquinones. 3,663,578, 5-16-72, Cl. 260-396.
- Von Lersner, Wolf A., to Campbell Soup Company. Mixing and dispensing unit. 3,664,555, 5-23-72, Cl. 222-145.
- Von Linsowe, Carl V., 25% to Page, John T. Compensator for temperature-caused length change. 3,631,884, 1-4-72, Cl. 137-344.
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Bayer, Horst O.; Cook, Richard S.; and von Meyer, William C., 3,647,810.
McNulty, Patrick J.; Swithenbank, Colin; Viste, Kenneth L.; and von Meyer, William C., 3,661,991.
Seidel, Michael C.; von Meyer, William C.; and Greenfield, Stanley A., 3,701,784.
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- Von Minden, Wolfgang: See—
Josten, Friedrich; Luckert, Wilhelm; Meyer-Stoll, Hans Albrecht; and von Minden, Wolfgang, 3,692,721.
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Grennan, Charles W.; and von Moltke, Evert, 3,635,602.
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- Von Ohlsen, Louis H., Jr.: See—
Beadle, William E.; Benson, Kenneth E.; Mathews, James R.; and von Ohlsen, Louis H., Jr., 3,669,768.
- von Orelli, Marcus: See—
Rohr, Otto; and von Orelli, Marcus, 3,647,888.
- Von Otto, Robert E., 1/2 to Nichols, Henry E. Surgical appliance. 3,692,024, 9-19-72, Cl. 128-132.000.
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- Von Recklinghausen, Daniel R., to Scott, H. H., Inc. Stereophonic demodulator apparatus and automatic monophonic-stereophonic switching circuit. 3,662,113, 5-9-72, Cl. 179-15.
- Von Recklinghausen, Daniel R., to Scott, H. H., Inc. Apparatus for amplifier protection. 3,668,545, 6-6-72, Cl. 330-207.00p.
- von Riegen, Johannes: See—
Leier, Karl Otto; Spohr, Hans Werner; and von Riegen, Johannes, 3,704,978.
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Kampfer, Helmut; von Konig, Anita; Ranz, Erwin; von Rintelen, Harald; Mayer, Dietmar; and Sasse, Klaus, 3,674,479.
Liebe, Werner; von Rintelen, Harald; Vanreusel, Gerard Laurens; and Vandeputte, Camille Angelina, 3,645,731.
Neumann, Wolfram; Muller, Gerhard; Ranz, Erwin; von Rintelen, Harald; and Schutz, Heinz-Dieter, 3,671,252.
Ranz, Erwin; von Rintelen, Harald; Pfeiffenschneider, Raymund; and Voight, Armin, 3,637,388.
Ranz, Erwin; Kampfer, Helmut; von Rintelen, Harald; Schutz, Heinz-Dieter; Mayer, Dietmar; and Sasse, Klaus, 3,660,093.
Ranz, Erwin; von Rintelen, Harald; Neumann, Wolfram; and Muller, Gerhard, 3,681,075.
Ranz, Erwin; von Rintelen, Harald; Schutz, Heinz-Dieter; Muller, Gerhard; and Neumann, Wolfram, 3,694,208.
Ranz, Erwin; Weyde, Edith; and von Rintelen, Harald, 3,705,033.
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Kampfer, Helmut; von Konig, Anita; Ranz, Erwin; von Rintelen, Harald; Mayer, Dietmar; and Sasse, Klaus, 3,674,480.
- Von Roepenack, Adolf; Wuethrich, Hans; and Schmidt, Wilhelm, to Det Norske Zinkkompani A/S. Process for the recovery of zinc from zinc- and iron-containing materials. 3,691,038, 9-12-72, Cl. 204-119.000.
- Von Roll AG: See—
Blaser, Harry, 3,643,592.
Schurch, Eugen, 3,633,433.
Schurch, Eugen, 3,663,052.
Schurch, Eugen, 3,670,659.
Schurch, Eugen; and Storrer, Rolf, 3,698,326.
Schurch, Eugene; and Storrer, Rolf, 3,687,367.
Winter, Ernst Jakob; and Stelzmüller, Franz, 3,689,186.
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Rich, Elvis; and von Rosenberg, Edgar L., 3,653,717.
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- Von Ruden, Raymond E., to General Equipment Co. Attachement for driving posts and the like adapted to be affixed to vehicles. 3,658,139, 4-25-72, Cl. 173-124.000.
- Von Rudgisch, Edgar. Moulding apparatus. 3,642,398, 2-15-72, Cl. 18-16.
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Maurer, Ludwig; and Von Ruti, Jurg, 3,654,549.
- von Schmeling, Bogislav: See—
Covey, Rupert A.; von Schmeling, Bogislav; and Crittendon, Charles E., 3,690,861.
Covey, Rupert A.; von Schmeling, Bogislav; and Crittendon, Charles E., 3,707,363.
Hageman, Howard A.; Gevitz, Arthur H.; and von Schmeling, Bogislav, 3,632,646.
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- Von Schrlitz, Don Morris, to Du Pont de Nemours, E. I., and Company. Process for the preparation of triarylboranes. 3,651,146, 3-21-72, Cl. 260-606.5.
- Von Starck, Axel: See—
Seulen, Gerhard; and Von Starck, Axel, 3,696,858.
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- Von Starck, Axel, to AEG-Elotherm G.m.b.H. Electromagnetic pump or conveyor trough. 3,645,646, 2-29-72, Cl. 417-50.
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- Von Stein, Gene B.; and Young, Norman R., to Unarco Industries, Inc. Shopping cart. 3,645,554, 2-29-72, Cl. 280-33.99.
- Von Strandmann, Maximilian; and Klutcho, Sylvester, to Warner-Lambert Company. β -Amidosulfoxides. 3,646,138, 2-29-72, Cl. 260-558.
- Von Strandmann, Maximilian; Cohen, Marvin P.; and Shavel, John, Jr., to Warner-Lambert Company. Fused ring systems containing [1,3] oxazine. 3,649,626, 3-14-72, Cl. 260-244.
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- Von Sybel, Reinhard; Englesmann, Dieter; and Fauth, Gunter, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with double exposure preventing means. 3,646,862, 3-7-72, Cl. 95-31.
- Von Tobel, Hans, to Sandoz Ltd. Copper phthalocyaninesulphonic acids. 3,668,218, 6-6-72, Cl. 260-314.500.
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- Von Voros, Geza: See—
Gourdine, Meredith C.; Von Voros, Geza; and Chiang, Ta Kuan, 3,650,092.
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Workman, Larry D.; Laing, Ralph R.; Lewis, J. Stephen; and Von Winckelmann, Emil H., 3,659,377.
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Tarmann, Bruno; and Vonbank, Heinrich, 3,650,314.
Tarmann, Bruno; and Vonbank, Heinrich, 3,680,623.
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Kernick, Andreas; Geyer, Manvel A.; Ernsberger, Glenn W.; and Vonderembse, John F., 3,636,430.
- Vondracek, Charles H.; and Dunlap, Anne B., to Westinghouse Electric Corporation. Steam chamber coatings. 3,694,942, 10-3-72, Cl. 38-77.830.
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Kadera, Vaclav; Novotny, Josef; Vondruska, Miloslav; Feierfeil, Jiri; Svoboda, Vlastimil; Misarek, Dusan; Futera, Miroslav; Nacovska, Katerina; Janc, Zbynek; Nemecek, Adolf; Penkava, Jiri; and Vitkovec, Zdenek, 3,647,312.
- vonFelgel-Farnholz, Richard: See—
Wupper, Max E.; vonFelgel-Farnholz, Richard; and Gornott, Dietmar, 3,652,784.
- Vongrey, Michael L., Jr.: See—
Davis, William A., 3,704,594.
- Vonhoff, William, Jr., to Thor Power Tool Company. Fluid control device. 3,696,834, 10-10-72, Cl. 137-596.000.
- Vons, Leonard H.: See—
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- Voorhees, Robert W., to Standard Manufacturing Company. Flag-staff swivel. 3,706,297, 12-19-72, Cl. 116-174.000.
- Voorhees, Steven C.: See—
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- Voorhees, Theodore. Machine for laminating surface textured film on strip molding. 3,698,989, 10-17-72, Cl. 156-479.000.
- Voorhees, Thomas L.: See—
Varga, Leroy M.; and Voorhees, Thomas L., 3,702,146.
- Voorheis, Temple S.: See—
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- Voorhies, Alexis, Jr.; and Hamer, Glen P., to Esso Research and Engineering Company. Preparation of high V.I. lube oils. 3,654,130, 4-4-72, Cl. 208-57.
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Heckendorf, Howard A.; and Voorhies, Donald A., 3,641,826.
- Voorhies, Gerald H. Hanger device. 3,642,147, 2-15-72, Cl. 211-181.
- Voorhies, John Davidson; and Nichols, Mary Ellen, to American Cyanamid Company. Extended life secondary cells. 3,634,138, 1-11-72, Cl. 136-6.
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- Voorman, Henry, Jr., to Wagner Electric Corporation. Information recorder. 3,673,608, 6-27-72, Cl. 346-18.000.
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- Vora, Kishure N., to Xerox Corporation. Sheet feeding apparatus. 3,687,448, 8-29-72, Cl. 271-21.000.
- Vora, Madhukar B., to International Business Machines Corporation. Lateral transistor structure and process for forming the same. 3,703,420, 11-21-72, Cl. 148-175.000.
- Vorachek, Jerome J.: See—
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- Vorderbruegge, Hermann; and Mehrmann, Ludwig, to Heberlein & Co., AG. Apparatus for the treatment of webs or yarns. 3,685,324, 8-22-72, Cl. 68-150.000.
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- Vormbaum, Otto: See—
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Kamborian, Jacob S.; Harriman, Allen C.; and Vornberger, Karl F., 3,675,260.
- Vornberger, Karl F., to Kamborian, Jacob S. Swinging cement applying mechanism. 3,693,878, 9-26-72, Cl. 239-97.000.
- Vornberger, Walter, to Kamborian, Jacob S. Toe wiping with insole unsecured to last bottom. 3,691,575, 9-19-72, Cl. 12-145.000.
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- Vorobiova, Galina Ivanovna: See—
Chepigo, Sergei Vladimirovich; Belenky, Solomon Iosifovich; Somov, Vsevolod Sergeevich; Voronkov, Vasily Gerasimovich; Belavsky, Mikhail Alexandrovich; Korotae, Oleg Georgievich; Rodionova, Galina Sergeevna; Maximenko,

- Nikolai Spiridonovich; Glazman, Bori Aronovich; Belova, Larisa Alexandrovna; and Vorobiova, Galina Ivanovna, 3,654,084.
- Vorona, David Semenovich: *See—*
Mescheryak, Sergei Nikolaevich; Stenkovsky, Evgeny Petrovich; Pentegov, Igor Vladimirovich; Vorona, David Semenovich; and Moravsky, Vladislav Eduardovich, 3,644,699.
- Vorona, David Solomonovich: *See—*
Moravsky, Vladislav Eduardovich; Vorona, David Solomonovich; and Shinkarenko, Boris Pavlovich, 3,671,708.
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- Voronoff, George N., to Textron, Inc. Frequency independent ICR antenna. 3,641,579, 2-8-72, Cl. 343-792.5.
- Voros, Anton, Jr. Electromagnetic reciprocating motor. 3,670,188, 6-13-72, Cl. 310-17.000.
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Horvath, Aurel; Repasi, Gellert; Szabo, Elek; and Vorsatz, Bruno, 3,661,559.
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Ingles, Leslie R.; and Peter, Joseph E., 3,654,768.
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Deane, Clifford T., 3,693,326.
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Vosbikian, Joseph; and Vosbikian, James T., 3,696,374.
- Vosbikian, James T. Garment support. 3,633,760, 1-11-72, Cl. 211-124.
- Vosbikian, Joseph; and Vosbikian, James T., to Hardware & Industrial Tool Co., Inc. Cabinet with jam switch and alarm system. 3,696,374, 10-3-72, Cl. 340-274.000.
- Vosbikian, Manuel. Bag support. 3,633,859, 1-11-72, Cl. 248-97.
- Vosbikian, Peter S., Jr. Mop holder. 3,681,810, 8-8-72, Cl. 15-150.000.
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Roser, Gerhard K.; Rebechini, Eugene J.; and Vosburg, Guy M., 3,678,848.
- Vose, Robert W. Counterbalance and lift system for mowing units. 3,641,748, 2-15-72, Cl. 56-15.7.
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Wiedemann, Eugen, 3,633,054.
- Voser, Walter: *See—*
Bickel, Hans; Bosshardt, Rolf; Fechtig, Bruno; Voser, Walter; Mueller, Johannes; and Peter, Heinrich, 3,661,901.
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Emmerich, Werner; and Voshall, Roy E., 3,632,928.
- Vosika, Eugene A.: *See—*
Baker, Alexander; and Vosika, Eugene A., 3,655,041.
- Vosper Limited: *See—*
Holden, Stanley Joseph, 3,643,617.
- Vosper, Ralph R., to Coen Company. Air augmented duct burner. 3,649,211, 3-14-72, Cl. 23-277.
- Vosper, Ralph R., to Coen Company, Inc. Duct burner for operation with liquid or gaseous fuels. 3,682,451, 8-8-72, Cl. 263-19.00a.
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Koch, Walter; Lemm, Helmut; Voss, Eitel; and Hospital, Peter, 3,694,157.
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Davis, Delbert A.; Averette, Samuel R.; and Voss, Gary Dwight, 3,642,563.
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Bixler, William L.; and Voss, Harold C., 3,696,511.
- Voss, Josef. Aquarium frame. 3,633,790, 1-11-72, Cl. 220-82.
- Voss, Joseph A., to Kimberly-Clark Corporation. Applicator tubes for suppositories and the like. 3,667,465, 6-6-72, Cl. 128-271.
- Voss, Joseph A.; and Johnson, Carl W., to Kimberly-Clark Corporation. Method for shaping tube ends. 3,683,759, 8-15-72, Cl. 93-94.0fc.
- Voss, Joseph A., to Kimberly-Clark Corporation. Catamenial devices and methods of making the same. 3,683,915, 8-15-72, Cl. 128-285.000.
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- Voss, Raymond G., to Phillips Petroleum Company. Apparatus for carving a material sheet. 3,635,625, 1-18-72, Cl. 425-135.
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- Voss, Richard F.; and Winter, Phillip M., to Minnesota Mining and Manufacturing Company. Peening device for tube finishing. 3,648,498, 3-14-72, Cl. 72-53.
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Renz, Eberhard; Voss, Siegfried; and Ecke, Gunter, 3,668,725.
- Voss, Siegfried, to Aktiengesellschaft "Weser". Rotary connector for connecting the ends of multiple conduits. 3,648,311, 3-14-72, Cl. 9-8.
- Vosseler, Gerhard, to Bernheim, Erwin. Resonators for driving timepiece gear trains. 3,668,442, 6-6-72, Cl. 310-8.200.
- Vossen, John Louis, Jr., to RCA Corporation. Method of metalizing semiconductor devices. 3,640,811, 2-8-72, Cl. 204-192.
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- Vossos, Peter H.: *See—*
Kovarik, James F.; and Vossos, Peter H., 3,660,301.
- Pluta, Linda J.; and Vossos, Peter H., 3,699,049.
- Vossos, Peter H., to Nalco Chemical Company. Stabilizing aqueous deionized silica sols of small particle size against ceiling. 3,644,213, 2-22-72, Cl. 252-313.
- Vossos, Peter H., to Nalco Chemical Company. Paper frictionizing. 3,649,348, 3-14-72, Cl. 117-152.
- Vossos, Peter H., to Nalco Chemical Company. Method of treating textiles. 3,652,329, 3-28-72, Cl. 117-139.5.
- Vosteen, Robert E. Anti-jamming circuit for multi-frequency signal detector. 3,673,343, 6-27-72, Cl. 179-84.0vf.
- Voth, James W., to Allis-Chalmers Manufacturing Company. Chain adjuster or elevating scraper. 3,699,820, 10-24-72, Cl. 74-242.14r.
- Voulat, Maurice: *See—*
Charamel, Pierre; Jalliet, Jean; Pelenc, Yves; and Voulat, Maurice, 3,657,495.
- Vouthier, Marcel, to Carpano & Pons. Device for releasably attaching ski boots to skis. 3,649,037, 3-14-72, Cl. 280-11.35.
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Groves, Sydney L.; Kuchta, Frank J.; Lewis, J. Stephen; Maurer, Donald J.; May, Richard L.; Ryan, John W.; and Vowles, Colin, 3,670,451.
- Vowles, J. Harding. Chair. 3,669,493, 6-13-72, Cl. 297-429.000.
- Voytko, Joseph, to Westvaco Corporation. Dispensing/filling container. 3,658,233, 4-25-72, Cl. 229-23.000.
- Vozenilek, Theodore M., 40% to Reynolds, Spencer E. Rotary switch with improved spiral contact structure. 3,647,994, 3-7-72, Cl. 200-4.
- Voznick, Henry P.: *See—*
Everest, Charles E.; and Voznick, Henry P., 3,700,971.
- Vrabeli, Edward A.; and Cuzzone, Raymond, to General Electric Company. Fuse having vibration damping means for protecting the fuse link thereof. 3,699,491, 10-17-72, Cl. 337-246.000.
- Vrana, Charles K.; and Lawton, Jacquelyn G. Apparatus for harnessing the vertical movement of ocean tides and utilize the force for generating electrical energy. 3,668,412, 6-6-72, Cl. 290-53.000.
- Vrana, George, to Riegel Paper Corporation. Display card. 3,658,175, 4-25-72, Cl. 206-945.14.
- Vrancken, August; and Van Eygen, Cyrille. Process for polymerizing acrylonitrile. 3,686,112, 8-22-72, Cl. 260-32.60n.
- Vrancken, Marcel Nicolas; and Claeys, Daniel Alois, to Gevaert-Agfa N.V. Method of recording and reproducing information. 3,642,475, 2-15-72, Cl. 96-35.
- Vrancken, Marcel Nicolas, to Gevaert-Agfa N.V. Photographic process and materials used therein. 3,642,480, 2-15-72, Cl. 96-48.
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- Vrancken, Marcel Nicolas; Meeussen, Louis Achilles; and Claeys, Daniel Alois, to Gevaert-Agfa N.V. Method for recording and

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- Vrancken, Marcel Nicolas; Vanreusel, Gerard Laurens; Van Pee, Paul Desire; and De Laet, Jules Maria, to Agfa-Gevaert N.V. Method for the preparation of a planographic printing master. 3,672,892, 6-27-72, Cl. 96-33.000.
- Vrancken, Marcel Nicolas; Brinckman, Eric Maria; and Heugebaert, Frans Clement, to Agfa-Gevaert. Reproduction method. 3,674,483, 7-4-72, Cl. 96-33.000.
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Vassilevsky, Anatole N.; and Renke, Adolf (said Vassilevsky, Irene, assor. to), 3,667,978.
- Vrbaski, Theodor; Vitichus, Bernard C.; and Koncos, Robert, to Sinclair Oil Corporation. Production of phenyl-maleic-anhydride by catalytic vapor phase oxidation of biphenyl or sec-butyl benzene. 3,704,251, 11-28-72, Cl. 260-346.800.
- Vredenburg, Walter A.; and Hollis, Samuel D., to Pennsylvania Industrial Chemical Corporation. Alkylphenol-aldehyde resins. 3,674,723, 7-4-72, Cl. 260-3.000.
- Vredevoe, Lawrence A.: *See—*
Silvera, Isaac F.; and Vredevoe, Lawrence A., 3,693,104.
- Vredevoogd, Jon D. Furniture unit constituted of sections held together by a tension cable. 3,632,179, 1-4-72, Cl. 312-108.
- Vree, Jules Herman: *See—*
Von Marinelli, Silvio M.N.K.W.F.; Vree, Jules Herman; and Verboom, Joannes B., 3,696,512.
- Vriend, Joseph A. Isolator valve for pneumatic brake systems. 3,677,611, 7-18-72, Cl. 303-84.00a.
- Vrijma, Berend, to Calsilox S.A. Apparatus for cutting a block of plastic material. 3,664,219, 5-23-72, Cl. 25-112.
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- Vrobel, Eliahu, to Bell & Howell Company. Replaceable electrical connector. 3,649,956, 3-14-72, Cl. 339-103.
- Vroege, Aart Cornelis, to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Method for operating a regenerative gas heater, and a gas heater for use in this method. 3,642,262, 2-15-72, Cl. 263-19.
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Getman, Harlan R., 3,632,245.
- Vrugt, Johannes Wilhelmus Ter: *See—*
Wanmaker, Willem Lambertus; Vrugt, Johannes Wilhelmus Ter; and De Bres, Johannes Guilielmus Cornelis Maria, 3,647,708.
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Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolievich, 3,670,549.
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- Tselikov, Alexandr Ivanovich; Nosal, Vsevolod Vladimirovich; and Verderevsky, Vadim Anatolievich, 3,680,345.
- Vsesojuzny Nauchno-Issledovatel'sky i proektny institut Aljuminiovoi magniovoi i elektrodnoi promyshlennosti: *See—*
Ivanovichev, Vasily; Svetlichny, Boris Nikolaevich; Demidov, Yuri Alexeevich; Elin, Nikolai Mikhailovich; Cherepanov, Vladimir Petrovich; Samuilov, Ivan Nikolaevich; and Cheprasov, Ivan Matveevich, 3,684,264.
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Andoniev, Sergei Mikhailovich; Alexandrov, Nikolai Nikitovich; Klochnov, Nikolai Ivanovich; Kulikov, Vasily Ivanovich; and Filipiev, Oleg Vladimirovich, 3,690,633.
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- Vsesojuzny Nauchno-Issledovatel'sky Institut Gorno-Spasatel'nogo Dela: *See—*
Artemenko, Anatoly Ivanovich; Geshtenkern, Rafail Yakovlevich; and Yagupov, Igor Nikolaevich, 3,683,902.
- Vsesojuzny Nauchno-Issledovatel'sky institut Legkogo i textil'nogo Mashinostroenia: *See—*
Korikovskiy, Petr Konstantinovich; Kulichkov, Yuri Semenovich; and Petukhov, Evgeny Dmitrievich, 3,681,909.
- Parshin, Alexei Nikolaevich, 3,685,551.
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Taburinsky, Grigory Semenovich; Gutterman, Eduard Mikhailovich; and Fain, Arnold Izrailevich, 3,682,231.
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Kharitonov, Gennady Grigorievich; Nebytov, Anatoly Mitrofanovich; Doroshin, Sergei Mikhailovich; and Alimova, Mariana Sergeevna, 3,704,865.
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Titov, Dmitry Vladimirovich, 3,705,605.
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Geshelin, Boris Mikhailovich; Maximov, Mikhail Mikhailovich; Rozenberg, Maxim Davidovich; and Yakovleva, Nadezhda Evgenievna, 3,686,491.
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Beletsky, Naum Iosifovich; and Chepovetsky, Mikhail Lvovich, 3,686,912.
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- Vshivkov, Boris Alexandrovich: *See—*
Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorniy, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.
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Trembley, William H., 3,698,278.
- Vuaille, Andre; and Pigeroulet, Jean, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Device for regulating the fuel flow of internal combustion engines. 3,658,040, 4-25-72, Cl. 123-140.
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Jobert, Raymond; and Vuchner, Bernard, 3,686,268.
- Vuffray, Georges C., to Girard-Perregaux S.A. Electric motor for watches. 3,652,884, 3-28-72, Cl. 310-156.
- Vuillemeier, Ralph O.; and Bagnatori, Giulio B., to Container Corporation of America. Mechanism for erecting carton sleeves. 3,682,052, 8-8-72, Cl. 93-53.00r.
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Guillot, Pierre; and Vuillot, Michel, 3,665,180.
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Bates, Howard J., Jr.; and Vujasinovic, Ado, 3,653,635.
- Vujasinovic, Ado N., to Rucker Company, The, mesne. Blowout preventer. 3,667,721, 6-6-72, Cl. 251-1.000.
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Holmes, Kenneth E., 3,657,755.
- Hunt, Charles J., 3,699,604.
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Skinner, Harvey G., 3,654,874.
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Kupka, John J., 3,704,651.
- Wandell, George C., 3,645,342.
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Bursack, Kenneth F.; and Johnston, Earnest L., 3,658,657.
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Gilbert, Daniel Eugene; Nelson, Larry Ralph; Sturgeon, Charles Edwin; and Thom, Robert Keith, 3,666,670.
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Zagorskaya, Maina Konstantinovna; Vulikh, Alexandr Ilich; Mekler, Lev Izrailevich; and Ksenzenko, Vladimir, 3,653,811.
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Wagner, George M.; and Vullo, William J., 3,672,818.
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Vulmiere, Jacques Claude; and Vulmiere, Huguette Nelly, 3,675,984.
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Van Der Werff, Bartele, 3,631,827.
Van Der Werff, Bartele, 3,688,722.
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Forste, Walter; Teuschler, Hans-Joachim; and Schreiber, Joachim, 3,688,142.
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Ioffe, Vladimir Fedorovich; Roitshtein, Garri Shmilevich; Vyatskin, Isif Yakovlevich; Tsyplin, Vladimir Grigorievich; Alexandrov, Vladimir Nikolaevich; and Semin, Gennady Gavrilovich, 3,659,070.
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Augustin, Jan; Trebichavsky, Ctibor; and Zubak, Jan, 3,650,922.
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Majek, Vladimir; Krajmer, Anton; and Smitmajer, Zdenek, 3,648,140.
Smitmajer, Zdenek; Blaskovits, Pavel; Krajmer, Anton; and Jebas, Jiri, 3,666,909.
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Nikitin, Yuri Filippovich; Romanenko, Nikolai Trofimovich; and Romanenko, Mikhail Trofimovich, 3,680,306.
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Buran, Vojtech; Kuba, Jaromir; Uncovsky, Adolf; and Zouhar, Karel, 3,638,489.
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Buran, Vojtech; Kuba, Jaromir; Uncovsky, Adolf; and Zouhar, Karel, 3,683,178.
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Barochovsky, Antonin; Horacek, Ladislav; Krulik, Zdenek; Snitil, Miloslav; Stancel, Frantisek; and Wilfert, Milos, 3,659,410.
Boucek, Miloslav; and Jiskra, Miloslav, 3,698,174.
Didek, Stanislav; Svec, Zdenek; and Pospisil, Frantisek, 3,672,144.
Dykast, Jaroslav, 3,698,175.
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Holy, Vladislav, 3,700,221.
- Vyzkumnyy Ustav Organicheskyy Syntez: See—
Kaspar, Jan; and Bicik, Bladislav, 3,682,399.
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Kochta, Zdenek; and Dvoracek, Karel, 3,664,157.
Peschl, Ervin; Malasek, Frantisek; and Kolar, Vladimir, 3,681,944.
Peschl, Ervin; and Skrepek, Jan, 3,688,524.
Peschl, Ervin, 3,702,547.
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Florian, Jaroslav; and Binovec, Ladislav, 3,664,488.
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Vitovsky, Jan, 3,643,493.
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Brany, Jaroslav, 3,667,168.
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Drabek, Jan; Horak, Oto; Ditrych, Zdenek; and Zahorovsky, Svatoslav, 3,658,975.
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Hladky, Vclav, 3,643,486.
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Ludvik, Borivoj, 3,652,223.
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Jacksch, Bruno, 3,695,408.
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Reeder, Charles H., 3,656,783.
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Caulkin, William Ernest, 3,681,574.
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Pompey, Walter, 3,672,743.
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Heightley, John Donnell; and Waaben, Sigurd Gunther, 3,693,173.
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Hillinger, Bruno, 3,638,699.
Lippitsch, Josef, 3,656,546.
Wenzel, Hermann, 3,664,386.
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Gansloser, Helmut, 3,650,279.
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Abrahami, Shoshana; Molcho, Aharon; and Wachs, Reuven, 3,652,718.
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- Wachta, Zygmunt A., to Allis-Chalmers Manufacturing Company. Series-parallel electrical circuit. 3,707,654, 12-26-72, Cl. 317-157.000.
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- Wachter, Reinhold, to Bio Bielefelder Offsetdruckplatten und zubehor B. Krause. Apparatus for image transfer. 3,632,207, 1-4-72, Cl. 355-85.

- Wachter, Robert A., to General Electric Company. Fixture for use in the foam insulation of refrigerator cabinets. 3,680,825, 8-2-72, Cl. 249-83.000.
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Donahue, William J.; Blanchard, David L.; and Wack, John M., 3,670,656.
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Miller, George W.; Wacker, Charles J.; and Dietel, James B., 3,662,379.
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- Wacker, Oskar: See—
Baschang, Gerhard; Morel, Charles J.; and Wacker, Oskar, 3,651,103.
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Balwe, Thomas; Bauer, Johann; and Fendel, Kurt, 3,663,520.
Bauer, Ignaz; Riedle, Rudolf; and Nitzsche, Siegfried, 3,660,524.
Bauer, Johann; Hollenbach, Georg; Popp, Walter; and Sabel, Alex, 3,642,948.
Bauer, Johann; and Sabel, Alex, 3,682,874.
Bauer, Johann; Fendel, Kurt; and Balwe, Thomas, 3,691,080.
Bauer, Rudolf; Jacob, Herbert; and Braun, Werner, 3,672,495.
Beier, Gerhard; Heckmaier, Joseph; and Bauer, Johann, 3,632,562.
Bergmeister, Eduard; Lieb, Erwin; Schmidtkonz, Christian; and Wiest, Hubert, 3,654,209.
Bergmeister, Eduard; Heckmaier, Joseph; Kirst, Paul-Gerhard; and Wiest, Hubert, 3,668,165.
Breuer, Hans; Manner, Erich; and Michl, Karl-Heinz, 3,700,759.
Eck, Herbert; Schwarzbauer, Hans; and Spes, Hellmuth, 3,647,871.
Eck, Herbert; Heckmaier, Joseph; Prigge, Helmut; and Spes, Hellmuth, 3,702,339.
Fruhwrth, Otto; and Schmidhammer, Ludwig, 3,647,895.
Hittmair, Paul; Kaiser, Wolfgang; Nitzsche, Siegfried; and Wohlfarth, Ernst, 3,644,434.
Hubner, Gerhard; and Kainzmaier, Helmut, 3,646,077.
Kaiser, Wolfgang; Nitzsche, Siegfried; Wohlfarth, Ernst; and Hittmair, Paul, 3,677,996.
Kaiser, Wolfgang; Nitzsche, Siegfried; Wohlfarth, Ernst; Strasser, Alois; and Hittmair, Paul, 3,677,997.
Kaiser, Wolfgang; Nitzsche, Siegfried; Wohlfarth, Ernst; and Hittmair, Paul, 3,678,003.
Kunstle, Gerhard; Spes, Hellmuth; and Trommet, Alfred, 3,637,840.
Kunstle, Gerhard; and Liberda, Heinz, 3,696,147.
Marwitz, Heinrich; and Nitzsche, Siegfried, 3,671,485.
Nitzsche, Siegfried; Kaiser, Wolfgang; Wohlfarth, Ernst; and Hittmair, Paul, 3,647,725.
Nitzsche, Siegfried; Kaiser, Wolfgang; Wohlfarth, Ernst; and Hittmair, Paul, 3,674,738.
Nitzsche, Siegfried; Kaiser, Wolfgang; Wohlfarth, Ernst; and Hittmair, Paul, 3,677,784.
Nitzsche, Siegfried; and Wohlfarth, Ernst, 3,678,002.
Nitzsche, Siegfried; Burkhardt, Jurgen; and Wegehaupt, Karl-Heinrich, 3,706,591.
Nitzsche, Siegfried; Rurkhardt, Jurgen; and Wegehaupt, Karl-Heinrich, 3,706,775.
Schmidhammer, Ludwig, 3,642,645.
Triem, Hermann; Wick, Manfred; Nitzsche, Siegfried; and Wegehaupt, Karl-Heinrich, 3,652,711.
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Bienert, Klaus; Lang, Winfried; Nordt, Egon; and Weidner, Herbert, 3,700,413.
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Uebel, Philipp, 3,643,925.
Uebel, Philipp; Heckner, Helmut; and Schulin, Gotthilf, 3,651,873.
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- Wackher, Richard C.: See—
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Ramquist, Frederick C.; and Wackher, Richard C., 3,636,127.
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Kusuhara, Masaki, 3,632,423.
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Hosokawa, Tomoyuki; Wada, Chuzo; and Horii, Hiroshi, 3,638,091.
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- Wada, Hiroyuki; and Sonoyama, Heikitsu, to Daikin Kogyo Co., Ltd. Process for preparing trifluoroacetic anhydride. 3,676,491, 7-11-72, Cl. 260-546.000.
- Wada, Hisayuki: See—
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- Wada, Ichiro, to Tokyo Shibaura Electric Co., Ltd. Method and apparatus for checking electromagnetic flowmeters. 3,633,401, 1-11-72, Cl. 73-3.
- Wada, Iwao. Method for producing ski-edge. 3,687,469, 8-29-72, Cl. 280-11.13e.
- Wada, Ken-Ichi: See—
Tanaka, Susumu; and Wada, Ken-Ichi, 3,703,399.
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Tsubouchi, Denji; and Wada, Kenji, 3,665,357.
Tsubouchi, Denji; Ito, Susumu; Toyota, Eisuke; and Wada, Kenji, 3,668,513.
- Wada, Kimihiro: See—
Mukai, Hideo; and Wada, Kimihiro, 3,670,980.
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- Wada, Makoto: See—
Inoue, Noboru; and Wada, Makoto, 3,649,238.
Kurokawa, Takaaki; Yamada, Junji; and Wada, Makoto, 3,667,927.
- Wada, Mitiaki: See—
Tanaka, Hiroshisa; Wada, Mitiaki; and Kaneko, Keiji, 3,706,179.
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- Wada, Ryuzi; Nakamura, Keichi; and Kanou, Kimio, to Toyoda Koki Kabushiki Kaisha. Grinding machine with adaptive control system. 3,698,138, 10-17-72, Cl. 51-165.800.
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- Wada, Shozo, to Tokyo Heat Treating Company. Method and apparatus for soot controlling in a thermal decomposition of a hydrocarbon gas. 3,682,605, 8-8-72, Cl. 48-107.000.
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- Wada, Takeshi: See—
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Nakagiri, Masaru; Onoda, Katsuhiro; Igarashi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tohru, 3,702,466.
Nakanuma, Sho; Haneta, Yuichi; Fujimori, Keizo; and Wada, Toshio, 3,637,434.
Nakanuma, Sho; Tsujide, Tohru; and Wada, Toshio, 3,663,871.
Nakanuma, Sho; Tsujide, Tohru; Wada, Toshio; Igarashi, Ryo; and Onoda, Katsuhiro, 3,665,423.
Nakanuma, Sho; Tsujide, Tohru; and Wada, Toshio, 3,688,389.
Nakanuma, Sho; and Wada, Toshio, 3,702,790.
Onoda, Katsuhiro; Igarashi, Ryo; Wada, Toshio; Nakanuma, Sho; and Tsujide, Tohru, 3,651,490.
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- Wada, Toshio; and Nakanuma, Sho, to Nippon Electric Company, Limited. Semiconductor integrated circuit device having improved wiring layer structure. 3,659,162, 4-25-72, Cl. 317-235.

- Wada, Toshiya: *See*—
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- Sakakura, Akiri; Taguchi, Satoru; Wada, Toshiya; Ueno, Kiyoshi; Yamamoto, Takaaki; and Urushiyama, Nabuo, 3,636,579.
- Wada, Tsuneo: *See*—
Koda, Ken'ichi; Kikuchi, Shoji; Wada, Tsuneo; Kuwabara, Yoshimi; Horikoshi, Akira; Tanimura, Kensaku; and Sugita, Sadao, 3,704,128.
- Wada, Yasuhiro, to Kabushiki Kaisha Kōparu. Exposure control apparatus for photographic camera. 3,633,473, 1-11-72, Cl. 95-10.
- Wada, Yasuhiro, to Kabushiki Kaisha Kōparu. Electronic shutter for single-lens reflex camera. 3,682,058, 8-8-72, Cl. 95-10.0st.
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Okamoto, Fumio; Wada, Yasuo; and Miyatani, Kazuo, 3,679,379.
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Itoh, Toshio; Miyamoto, Toshio; and Wada, Yuichi, 3,670,282.
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- Waddan, Dhafir Yusuf: *See*—
Comforth, David Arthur; Waddan, Dhafir Yusuf; and Williams, Derek, 3,641,106.
- Waddan, Dhafir Yusuf; and Williams, Derek, to Imperial Chemical Industries Limited. Oxidation process. 3,642,886, 2-15-72, Cl. 260-533.
- Waddan, Dhafir Yusuf; and Williams, Derek, to Imperial Chemical Industries Limited. Process for the manufacture of α,γ -aliphatic diamines. 3,661,995, 5-9-72, Cl. 260-583.
- Waddan, Dhafir Yusuf; and Williams, Derek, to Imperial Chemical Industries, Limited. Preparation of 2,2'-bipyridyl. 3,697,534, 10-10-72, Cl. 260-296.000.
- Waddell, James M.: *See*—
Iskian, James L.; Waddell, James M.; and Way, Donald L., 3,699,526.
- Waddicor, Andrew Hurlstone. Motor speed control using a count-down counter. 3,659,169, 4-25-72, Cl. 318-341.000.
- Wadding, Richard E., to International Telephone and Telegraph Corporation. Constant current output controlled repeater insertion. 3,689,704, 9-5-72, Cl. 179-16.00f.
- Waddington, Philip L. Apparatus for the manufacture of hollow frangible pipes. 3,660,003, 5-2-72, Cl. 425-427.
- Waddington, Rogor Strange; deceased (by Sharp, David Buckley; and Rubinstein, Joan; executors); and Duval, Bruce, to T.P.I. Limited. Simulating apparatus for teaching the art of sailing. 3,693,264, 9-26-72, Cl. 35-11.000.
- Waddle, James B., to Power Parts Company. Wheel chock. 3,684,060, 8-15-72, Cl. 188-36.000.
- Wade, Charles H.: *See*—
Lampman, William T.; and Wade, Charles H., 3,665,943.
- Wade, Fred B., to American Data Systems, Inc. Differential coding system and method. 3,666,890, 5-30-72, Cl. 179-15.
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- Wade, Gordon E., to Scott Paper Company. Plastic container having expanded side wall. 3,703,255, 11-21-72, Cl. 229-1.50b.
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- Wade, Henry E. Extraction of asparaginase from bacterial culture. 3,660,238, 5-2-72, Cl. 195-66.
- Wade, Jesse L.; and Vail, Arthur E., to Trio Manufacturing Company. Double wall insulated bird house. 3,643,631, 2-22-72, Cl. 119-23.
- Wade, John M., to Hewlett-Packard Company. Polarity reversing means for moving pen graphical recorder. 3,653,059, 3-28-72, Cl. 346-32.
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Cornelius, Gail, 3,658,250.
- Cornelius, Gail, 3,687,373.
- Wade, Robert C.: *See*—
Sullivan, Edward A.; and Wade, Robert C., 3,637,472.
- Wade, Robert C., to Ventron Corporation. Metal organic coatings for anionic substrates. 3,634,296, 1-11-72, Cl. 260-29.6.
- Wade, Robert C., to Ventron Corporation. Method for preparing diorganic mercury compounds. 3,636,020, 1-18-72, Cl. 260-433.
- Wade, Robert C., to Ventron Corporation. Alkali metal cyanoborohydride reductive bleaching liquor. 3,637,516, 1-25-72, Cl. 252-188.
- Wade, Robert C., to Ventron Corporation. Aqueous coating compositions for glass articles. 3,663,254, 5-16-72, Cl. 106-271.000.
- Wade, Robert C., to Ventron Corporation. Preparation of lithium, sodium and quaternary ammonium cyanoborohydrides. 3,667,923, 6-6-72, Cl. 23-358.000.
- Wade, Robert C., to Ventron Corporation. Preparation of potassium cyanoborohydride. 3,697,232, 10-10-72, Cl. 23-358.
- Wade, Robert C., to Ventron Corporation. Method for preparing 10-chlorophenoxarsine. 3,701,794, 10-31-72, Cl. 260-440.000.
- Wade, Robert M., to Anaconda Wire and Cable Company. Electric cable and method of making. 3,705,257, 12-5-72, Cl. 174-115.000.
- Wade, Ronald A.: *See*—
Marquardt, Julius F.; and Wade, Ronald A., 3,668,794.
- Wade, Thomas C. J.: *See*—
Dunnell, Alan Keith; Greenwood, David; and Wade, Thomas C. J., 3,686,723.
- Wade, Wallace R., to General Motors Corporation. Combustion apparatus. 3,656,298, 4-18-72, Cl. 60-39.65.
- Wade, William T.: *See*—
Jordan, Paul V.; Palmieri, John A.; and Wade, William T., 3,678,475.
- Wadekamper, Leslie: *See*—
Lyons, Charles R.; Dunn, Adam D.; and Wadekamper, Leslie, 3,641,753.
- Wadell, Lars Gustaf Albert: *See*—
Akesson, Yngve Reinhold; and Wadell, Lars Gustaf Albert, 3,695,323.
- Wadensten, Theodore S. Rotating pneumatic vibrator. 3,638,914, 2-1-72, Cl. 259-1.
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- Wadia, Aspi B.: *See*—
Carter, William C.; Henle, Robert A.; Jessep, Donald C., Jr.; and Wadia, Aspi B., 3,688,265.
- Carter, William C.; Jessep, Donald C., Jr.; and Wadia, Aspi B., 3,705,357.
- Wadiak, Michael; and Higham, George T., to Foster Wheeler Corporation. Emergency monowall tube repair kit. 3,643,701, 2-22-72, Cl. 138-97.
- Wadley, J. K.: *See*—
Hill, Joseph M.; and Speer, Robert J., 3,637,462.
- Wadley, Susie L.: *See*—
Hill, Joseph M.; and Speer, Robert J., 3,637,462.
- Wadsted, Bengt, to Marden Anstalt. Process for production of N, M, and C₂ fertilizer. 3,684,476, 8-15-72, Cl. 71-28.000.
- Wadsworth, Donald E. Lawn edge trimming machine. 3,679,003, 7-25-72, Cl. 172-15.000.
- Wadsworth, Donald van Zelm: *See*—
Bridwell, John Dewey; and Wadsworth, Donald van Zelm, 3,652,993.
- Wadsworth Electric Mfg. Co., Incorporated, The: *See*—
Middendorf, William H.; and Fritz, Edward J., 3,649,784.
- Wadsworth Electric Mfg. Co., Incorporated, The: *See*—
Middendorf, William H.; Myers, Ralph S.; Fritz, Edward J.; and Koch, Jack N., 3,638,173.
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Gasior, Joseph; and Waechter, Charles J., 3,632,261.
- Waechter, Friedrich. Clam opener. 3,706,114, 12-19-72, Cl. 17-75.000.
- Waede, Werner: *See*—
Radschelt, Kurt; Stache, Ulrich; Fritsch, Werner; and Waede, Werner, 3,682,987.
- Wachner, Glenn C., to United Aircraft Corporation. Stroke write symbol generator. 3,703,659, 11-21-72, Cl. 315-24.000.
- Waeltz, Ronald, to Standard Pressed Steel Co. Strip of fasteners in a predetermined sequence. 3,661,251, 5-9-72, Cl. 206-56.
- Waerner, Thor. Sleeve element and appurtenant bolt element. 3,638,386, 2-1-72, Cl. 52-704.
- Waeselynck, Raymond, to Stein & Roubaix. Heat exchanger. 3,642,061, 2-15-72, Cl. 165-111.
- Waffart, Theodore A., Jr., to General Electric Company. Caster and caster brake structure for appliances and the like. 3,656,203, 4-18-72, Cl. 16-35.
- Wagar, Albert E., to Cluett, Peabody & Co., Inc. Method and apparatus for assembling shirt parts. 3,664,282, 5-23-72, Cl. 112-121.150.
- Wagatsuma, Mitsuyoshi: *See*—
Fujimura, Hajime; Tanaka, Tadasu; Wagatsuma, Mitsuyoshi; Iwakuma, Takeo; and Miyazaki, Michihiko, 3,649,634.
- Wagatsuma, Nagatoshi: *See*—

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- Wagele, Rolf, to Kabel- und Metallwerke Gutehoffnungshütte Aktiengesellschaft. Flexible waveguide and method of producing. 3,692,063, 9-19-72, Cl. 138-139.000.
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- Wagenblast, Ernst: *See*—
Bruer, Dirk; Schaible, Siegfried; Wagenblast, Ernst; and Hohlwegler, Heinz, 3,685,674.
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- Wagenblast, Richard K.: *See*—
Dreckmann, Hubert; Wilson, Charles B.; and Wagenblast, Richard K., 3,696,290.
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- Wagener, Earl H.: *See*—
Gibbs, Dale S.; Wessling, Ritchie A.; and Wagener, Earl H., 3,637,432.
- Wagenknecht, Rudolf; Gotta, Hans; Spei, Brigitte; and Gottwald, Karl-Heinz, to Collardin, Gerhard, GmbH. Process for the application of thin, continuous phosphate layers on metal surfaces. 3,681,148, 8-1-72, Cl. 148-6.15z.
- Wagensell, Ludwig, to Constantin Ranch. Control apparatus for limiting the power received by a plurality of adjustable hydraulic pumps. 3,649,134, 3-14-72, Cl. 417-213.
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Winkler, Alfred; and Wagensonner, Eduard, 3,702,728.
- Wagenvoord, Anita. Stencils for producing composite display. 3,665,889, 5-30-72, Cl. 118-505.000.
- Wager, John Stewart, to Universal Oil Products Company. Mechanism for the tiltable seat of a chair. 3,669,399, 6-13-72, Cl. 248-373.000.
- Waggner, Herbert A., to Bell Telephone Laboratories, Incorporated. Electrochemically controlled shaping of semiconductors. 3,689,389, 9-5-72, Cl. 204-147.000.
- Waggner, Terry Bill; and Seyb, Edgar John, Jr., to M & T Chemicals Inc. Process of modifying a hydrohalogen polymer surface. 3,639,153, 2-1-72, Cl. 117-118.
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Tonne, Franz; Brand, Werner; and Wolowitz, Benno, 3,675,593.
- Wagle, Joseph A., to General Motors Corporation. Turbomachine rotor. 3,656,864, 4-18-72, Cl. 416-190.
- Wagle, Joseph A., to General Motors Corporation. Ring testing machine. 3,693,424, 9-26-72, Cl. 73-120.000.
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Eggemuller, Alfred; Scherer, Lorenz; Notter, Eugen; Bellan, Heinrich; and Wagler, Werner, 3,687,061.
- Wagley, Allen. Crusher. 3,691,942, 9-19-72, Cl. 100-151.000.
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Marquez, Joseph A.; Wagman, Gerald H.; and Cooper, David J., 3,651,042.
- Weinstein, Marvin J.; Luedemann, George M.; Wagman, Gerald H.; and Marquez, Joseph A., 3,632,750.
- Wagner, Alois: *See*—
Dietrich, Anton; Wagner, Alois; Stutz, Paul; and Obster, Martin, 3,633,243.
- Wagner, Arthur F.; Wittreich, Paul E.; and Sarett, Lewis H., to Merck & Co., Inc. 2-Imidazolylbicyclo[22.2.2]octanes. 3,666,755, 5-30-72, Cl. 260-240.00f.
- Wagner Brothers Containers, Inc.: *See*—
Solanka, Joseph, 3,638,852.
- Wagner, Charles A.; and Wagner, Herman B. Rate controlled photochromic lenses of vinyl chloride-vinyl acetate copolymer containing a mercury thiocarbazon compound. 3,666,352, 5-30-72, Cl. 350-160.000.
- Wagner, Charles J.: *See*—
Cooper, Ralph F.; and Wagner, Charles J., 3,694,283.
- Wagner, Charles J., Jr.: *See*—
Berry, Robert E.; Bissett, Owen W.; Wagner, Charles J., Jr.; and Patterson, Eldridge P., 3,672,909.
- Wagner, Claude Julien Rene; deceased (by Wagner, Paulette Marie Josephine; administratrix), to Sidel. Screw for an extruding device and a device including said screw. 3,689,189, 9-5-72, Cl. 425-376.000.
- Wagner, Daniel G., to Westinghouse Air Brake Company. Automatic drain valve device. 3,703,188, 11-21-72, Cl. 137-204.000.
- Wagner, David P., to Illinois Tool Works Inc. Fastener unit. 3,687,184, 8-29-72, Cl. 151-37.000.
- Wagner, David P., to Illinois Tool Works Inc. Composite screw. 3,693,495, 9-26-72, Cl. 85-9.00r.
- Wagner, Donald E., to Caterpillar Tractor Company. Self-adjusting belt tightener. 3,631,734, 1-4-72, Cl. 74-242.11.
- Wagner, Douglas A., to General Motors Corporation. Propeller coupling. 3,679,033, 7-25-72, Cl. 192-48.700.
- Wagner, Douglas A., to General Motors Corporation. Fluid actuator with lock and cushion. 3,699,850, 10-24-72, Cl. 92-24.000.
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Pasquine, Arthur R.; Snow, Harland J.; and Wagner, Edward E., 3,701,353.
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Atkins, Carl E., 3,670,178.
- Bueler, Richard C., 3,700,286.
- Demas, Nickolas P., 3,697,802.
- Falk, Edward J., 3,669,505.
- Falk, Edward J., 3,680,921.
- Marting, Paul G., 3,697,138.
- McGuirk, Francis A., Jr., 3,649,849.
- Papin, Joseph E.; and Stokes, Stanley L., 3,669,506.
- Quinn, Halsey P., 3,681,654.
- Quinn, Halsey P., 3,689,827.
- Raago, Rein, 3,688,147.
- Rock, William A., 3,683,399.
- Siiberg, Hemming G., 3,705,318.
- Stokes, Stanley L., 3,669,504.
- Stokes, Stanley L., 3,669,507.
- Voorman, Henry, Jr., 3,673,608.
- Wagner Electric Corporation, mesne: *See*—
Brandt, Henry W., 3,669,259.
- Wagner, Erich: *See*—
Edwards, Garry; Mandler, Walter; and Wagner, Erich, 3,649,104.
- Wagner, Frank Albert, Jr.: *See*—
Addor, Roger Williams; and Wagner, Frank Albert, Jr., 3,632,621.
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Osborne, Edward L.; and Wagner, Franklin J., 3,666,165.
- Wagner, Franklin J., to Westvaco Corporation. Corrugated paper board container having sealed fluted closure flaps. 3,635,451, 1-18-72, Cl. 229-37.
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Larson, Louis P.; Repking, Edward F.; and Wagner, Gary L., 3,691,964.
- Wagner, Gary L., to Crown Zellerbach Corporation. Paperboard panel substitute for lumber. 3,648,959, 3-14-72, Cl. 248-346.
- Wagner, George, to Hooker Chemical Corporation. Process for textile treatment and treated textile. 3,695,924, 10-3-72, Cl. 117-76.00t.
- Wagner, George J., to United States Steel Corporation. Apparatus for receiving and storing a flexible starter bar. 3,692,094, 9-19-72, Cl. 164-274.000.
- Wagner, George M., to Hooker Chemical Corporation. Process for treating wool. 3,650,806, 3-21-72, Cl. 117-62.2.
- Wagner, George M.; and Vullo, William J., to Hooker Chemical Corporation. Polyisocyanate composition and process for treating cellulosic materials therewith to render them water repellent. 3,672,818, 6-27-72, Cl. 8-116.200.
- Wagner, George M., to Hooker Chemical Corporation. Process for shrinkproofing wool and resultant product. 3,702,776, 11-14-72, Cl. 117-62.200.
- Wagner, Gerhard; Kroll, Friedrich; Gleich, Horst; and Kessler, Georg, to Klockner-Humboldt-Deutz Aktiengesellschaft. Amphibious vehicle. 3,661,114, 5-9-72, Cl. 115-1.
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- Wagner, Harold H., to Caterpillar Tractor Company. Engine start and shutdown system. 3,659,113, 4-25-72, Cl. 307-9.
- Wagner, Harold H., to Caterpillar Tractor Company. Control system for adding and removing alternators from a system. 3,703,663, 11-21-72, Cl. 317-13.00r.
- Wagner, Heinrich, Maschinenfabrik: *See*—
Grolla, Herbert, 3,672,434.
- Wagner, Heinz: *See*—
Wermuth, Charles; and Wagner, Heinz, 3,650,522.
- Wagner, Helmar R.: *See*—
Harth, Helmut; Rau, Karl; and Wagner, Helmar R., 3,689,638.
- Wagner, Herbert: *See*—
Machenschalk, Rudolf; and Wagner, Herbert, 3,697,798.

- Wagner, Herman B.: *See—*
Wagner, Charles A.; and Wagner, Herman B., 3,666,352.
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- Wagner, Jacob C. Concrete finishing apparatus. 3,698,293, 10-17-72, Cl. 94-50.00v.
- Wagner, Jacob C. Ice-breaking system for ships. 3,698,340, 10-17-72, Cl. 114-40.000.
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- Wagner, James B., to General Electric Company. Viscous pump for unitized bearing lubrication system. 3,635,578, 1-18-72, Cl. 415-90.
- Wagner, John: *See—*
Iantorno, James F.; Wagner, John; and Schumacher, Stephen J., 3,671,920.
- Wagner, John B., to Webster Electric Company, Inc. Hydraulic puller apparatus for attaching a coupling to a hose. 3,662,451, 5-16-72, Cl. 29-237.000.
- Wagner, John L., to Union Carbide Corporation. Control system for selective adsorption process. 3,703,068, 11-21-72, Cl. 55-21.000.
- Wagner, John T., to Westinghouse Electric Corporation. Rotor blade coupler arrangement. 3,649,133, 3-14-72, Cl. 416-190.
- Wagner, John W., to Atlantic Richfield Company. Suppression of isopentane formation in ethyl chloride synthesis. 3,634,527, 1-11-72, Cl. 260-663.
- Wagner, John W., to Xerox Corporation. Sheet feed apparatus. 3,655,183, 4-11-72, Cl. 271-62.
- Wagner, Josef. Transmission for diaphragm pump. 3,657,933, 4-25-72, Cl. 74-55.
- Wagner, Josef. Spray gun. 3,680,789, 8-1-72, Cl. 239-332.000.
- Wagner, Josef. Pump and method of driving same. 3,680,981, 8-1-72, Cl. 417-388.000.
- Wagner, Joseph R., to United States of America, Agriculture. Method of comminuting legumes. 3,642,494, 2-15-72, Cl. 99-98.
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Lee, Charles Allen; and Wagner, Joseph Robert, 3,705,079.
- Wagner, Karl: *See—*
von Albedyll, Joachim; Wagner, Karl; and Huber, Hans-Peter, 3,631,778.
- Wagner, Karl; and Ganser, Josef, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with built-in exposure control. 3,636,841, 1-25-72, Cl. 95-10.
- Wagner, Karl; and Wesp, Horst, to Steyr-Daimler-Puch Aktiengesellschaft. Rifle stock with a detachable spare magazine contained therein. 3,638,344, 2-1-72, Cl. 42-71.
- Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Photographic camera with automatic exposure control. 3,638,542, 2-1-72, Cl. 95-10.
- Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus. 3,645,183, 2-29-72, Cl. 95-31.
- Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with automatic exposure control. 3,665,824, 5-30-72, Cl. 95-10.00c.
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- Wagner, Karl; and Nicolay, Klaus, to Agfa-Gevaert Aktiengesellschaft. Automatic exposure control for photographic apparatus. 3,672,271, 6-27-72, Cl. 95-10.00c.
- Wagner, Karl; and Durr, Helmut, to Agfa-Gevaert Aktiengesellschaft. Device for adjustment of shutters and diaphragms in photographic apparatus. 3,672,286, 6-27-72, Cl. 95-64.00c.
- Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Arrangement for providing a series of illuminations. 3,692,995, 9-19-72, Cl. 240-1.300.
- Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Automatic distance warning circuits for cameras to be used with photoflash units. 3,696,721, 10-10-72, Cl. 95-11.00r.
- Wagner, Karl; and Von Fischern, Bernard, to Agfa-Gevaert Aktiengesellschaft. Combined battery test and light meter for a photographic camera. 3,699,857, 10-24-72, Cl. 95-10.00c.
- Wagner, Karl; Nicolay, Klaus; Schuchardt, Gerhard; and Putscher, Johann, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with detachable source of artificial light. 3,705,539, 12-12-72, Cl. 95-11.50r.
- Wagner, Karl A. Resilient furniture support structure. 3,707,009, 12-26-72, Cl. 5-355.000.
- Wagner, Klaus: *See—*
Roos, Ernst; and Wagner, Klaus, 3,663,568.
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- Wagner, Klaus; and Roos, Ernst, to Farbenfabriken Bayer Aktiengesellschaft. Substituted 4-aminoquinazolines and a process for their production. 3,689,489, 9-5-72, Cl. 260-256.40q.
- Wagner, Klaus; and Roos, Ernst, to Farbenfabriken Bayer Aktiengesellschaft. Certain substituted benzothiazole-N-oxides and their preparation. 3,691,186, 9-12-72, Cl. 260-304.000.
- Wagner, Kuno: *See—*
Von Bonin, Wulf; Muller, Erwin; and Wagner, Kuno, 3,637,909.
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- Wagner, Maria-Theresia, geb. Eibes: *See—*
Eibes, Carl B. H., 3,638,259.
- Wagner, Melvin P.: *See—*
Doran, Thomas J.; Wagner, Melvin P.; and Stevens, Henry C., 3,664,403.
- Wagner, Milton H. Mobile irrigation sprinkler process and apparatuses therefor. 3,640,462, 2-8-72, Cl. 239-11.
- Wagner, Otto; Bauer, Klaus; Kaufmann, Wilfried; Rauenbusch, Erich; Arens, Alfred; and Irion, Eckart, to Farbenfabriken Bayer Aktiengesellschaft. Process for the separation of pyrogens from crude preparations of L-asparaginase. 3,634,196, 1-11-72, Cl. 195-6.
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- Wagner, Ovner R., Jr.; Smith, Lowell R.; and Osborn, Jack L., to Amoco Production Company. Forming a barrier between zones in waterflooding. 3,656,550, 4-18-72, Cl. 166-270.
- Wagner, Paul; Dickinson, James M.; and Smith, Morton C., to United States of America, Atomic Energy Commission. Polycrystalline graphite with controlled electrical conductivity. 3,644,221, 2-22-72, Cl. 252-503.
- Wagner, Paul D.; and Keuper, John J. Claw-tooth rotor dynamoelectric machine. 3,663,846, 5-16-72, Cl. 310-164.
- Wagner, Paul H.: *See—*
Irvin, Howard B.; and Wagner, Paul H., 3,681,308.
- Wagner, Paulette Marie Josephine: *See—*
Wagner, Claude Julien Rene, 3,689,189.
- Wagner, Raymond P.: *See—*
Gunther, Gregory M.; Lewis, J. Stephen; Nishiguchi, Masakatsu; Robson, George E.; Wagner, Raymond P.; and Yarbrough, William R., 3,696,552.
- Wagner, Richard C.: *See—*
Rohrbacher, James T.; and Wagner, Richard C., 3,654,894.
- Wagner, Richard Maxwell: *See—*
Capper, Harry Milton; Woolley, Harold Oakley, Jr.; Lemons, Clifton Eugene; and Wagner, Richard Maxwell, 3,661,752.
Capper, Harry Milton; and Wagner, Richard Maxwell, 3,687,104.
- Wagner, Richard S.: *See—*
Arthur, John R., Jr.; and Wagner, Richard S., 3,635,753.
- Wagner, Richard Siegfried: *See—*
Chang, Chuas Chung; Marcus, Robert Boris; and Wagner, Richard Siegfried, 3,687,745.
- Wagner, Robert E., to Union Oil Company of California. Two-phase hydrocarbon conversion system. 3,663,431, 5-16-72, Cl. 208-143.
- Wagner, Robert J. Method for recovery of petroleum deposits. 3,653,438, 4-4-72, Cl. 166-266.
- Wagner, Robert L.: *See—*
Bagland, Evan L., III; and Wagner, Robert L., 3,696,739.
- Wagner, Robert L.; and Ragland, Evan L., II, to American Regitel Corporation. Double helical printer. 3,669,237, 6-13-72, Cl. 197-49.000.
- Wagner, Robert W.; and Mc Laughlin, John, to Singer Company, The. Sabre saws with angularly adjustable swivel saw bars. 3,665,983, 5-30-72, Cl. 143-68.00f.
- Wagner, Ross I.: *See—*
Gunderloy, Frank C., Jr.; Hamermesh, Charles L.; and Wagner, Ross I., 3,690,971.
- Wagner, Ross W.: *See—*
Ogle, Paul E.; Coleman, Kenneth L.; Wagner, Ross W.; and Harter, Lynn J., 3,690,272.
- Wagner, Siegfried: *See—*
Genwerich, Max; Wagner, Siegfried; and Schwarzkopf, August, 3,688,974.
- Wagner, Tomes B., to General Electric Company. Combined bearing lubrication hydrogen seal system for generator. 3,688,872, 9-5-72, Cl. 184-6.280.
- Wagner, Walter. Side delivery tape applicator. 3,677,865, 7-18-72, Cl. 156-577.000.
- Wagner, Werner: *See—*
Oppermann, Willi; Schonitz, Egon; and Wagner, Werner, 3,648,007.
- Wagner, William. Lock alarm device. 3,659,549, 5-2-72, Cl. 116-8.000.
- Wagner, William A.: *See—*
Newman, James W.; Bavaro, Nicholas M.; and Wagner, William A., 3,666,200.
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Stevens, William P.; Hubbard, George M.; and Wagner, William D., 3,634,815.

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Ritschel, Wolfgang A.; Fischer, Johanna; Jahn, Ulrich; and Wagner-Jauregg, Theodor, 3,639,623.
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Dorsch, Gerhard; and Wagnerberger, Wolfgang, 3,683,340.
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Auman, Paul M.; and Wagstaff, James B., 3,633,654.
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Wagstaff, Frank E.; Wagstaff, William G.; and May, Paul H., 3,665,999.
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Pedersen, Poul K.; Wagstaff, Robert A.; and Waldrop, Thomas W., 3,678,772.
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Wagstaff, Frank E.; Wagstaff, William G.; and May, Paul H., 3,665,999.
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Douglas, Ellwood S.; and Wahlgren, Wallace W., 3,665,356.
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Wahlmark, Gunnar A., 3,632,121.
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Schrewe, Hans; Diederich, Gerd; Wahls, Peter; and Pfennig, Emil, 3,642,052.
- Wahls, Robert A.: *See—*
Freedman, Paul; Freedman, Gerald; Wahls, Robert A.; and Hornstein, Harvey R., 3,652,127.
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Beaudry, Harvey James; and Waidtlow, Robert M., 3,648,059.
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Morita, Carl Akira, 3,651,599.
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Arnold, Carroll H., 3,666,124.
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Clarke, Michael Raymond; Osmond, Desmond Wilfrid John; and Waite, Frederick Andrew, 3,691,123.

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Kruger, Bruno Otto; and Waites, James Wilson, Jr., 3,652,659.
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Yu, Albert Y. C.; Gopen, Howard J.; and Waits, Robert K., 3,702,290.
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Laizier, Jacques; and Wajs, Georges, 3,700,573.
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Ishii, Kiyofumi; Toda, Jun; Aoki, Hisashi; and Wakabayashi, Hideo, 3,653,923.
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Miyachi, Hirokazu; and Wakabayashi, Yasuo, 3,635,621.
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Kida, Nobutoshi, 3,638,668.
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Honsho, Norihisa; Yasuda, Satoshi; and Wakahata, Tamotsu, 3,649,728.
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Fujita, Tadao; Wake, Makoto; and Konishi, Kunihiko, 3,682,668.
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Spanton, Robert George; Wakefield, Gordon Cecil John; Quamby, Robert Charles; and Clarke, Terence James Leonard, 3,662,923.
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- Wakefield, Ralph V., to Commercial Solvents Corporation. Seismic signal generator. 3,638,752, 2-1-72, Cl. 181-5.
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- Wakeman, Reginald L.; and Merianos, John J., to Millmaster Onyx Corporation. Quaternary ammonium compounds used to control bacteria in hard water. 3,652,771, 3-28-72, Cl. 424-329.
- Wakeman, William R., to Moore Business Forms, Inc. Manifold forms. 3,655,222, 4-11-72, Cl. 282-11.5.
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Suzuki, Munehiko; Hosokawa, Etsuo; and Waki, Misao, 3,634,304.
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- Wakinson, Leonard James: See—
Moore, Brian Joseph; and Wakinson, Leonard James, 3,701,657.
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Maruchi, Katsumi; Yataka, Jiro; Tatsumi, Yasukazu; Wakita, Masayasu; and Yamayoshi, Tadashi, 3,662,299.
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- Wakley, Wilbur T.; and Leeds, Michael T., to Diacon, Inc. Enclosure for encapsulating electronic components. 3,697,666, 10-10-72, Cl. 174-52.00s.
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Koshimura, Masamitsu; Haruta, Yukinori; Matsuzaka, Junichi; and Wako, Shinichi, 3,663,599.
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- Walbeck, Maude E. Golfing accessories holder. 3,674,189, 7-4-72, Cl. 224-5.00c.
- Walberg, Arvid C., to Graco Inc., mesne. Method of electrostatically coating with highly conductive materials. 3,637,420, 1-25-72, Cl. 117-93.42.
- Walberg, Arvid C. Apparatus for preventing arcing in an electrostatic coating system. 3,641,971, 2-15-72, Cl. 118-8.
- Walberg, Arvid C., to Gouridine Coating Systems, Inc. Spray apparatus with atomization device. 3,692,241, 9-19-72, Cl. 239-15.000.
- Walbridge, Derek John: See—
Baker, Alan Stuart; and Walbridge, Derek John, 3,669,939.
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O'Connor, Alton J., 3,703,342.
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Krauss, Rudolf; and Walch, Eugen, 3,690,566.
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Shrewsbury, Robert M.; and Walcker, Jake J., 3,685,498.
- Walco National Corporation: See—
Nelson, Walter K., 3,653,104.
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Ernick, Frederick G.; New, Thorndike C. T.; and Walczak, Donald A., 3,648,123.
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Meyer, Richard D.; and Walczak, Zbigniew K., 3,681,852.
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Harris, Daniel M.; Moore, Jack E.; Taylor, Chester E.; and Walczyk, Walter H., 3,643,278.
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Young, Harold K.; Wald, Herbert; Blanch, William O.; and Meadows, Lacy C., 3,653,544.
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Humlong, Robert F., 3,652,105.
- Humlong, Robert F., 3,695,496.
- Pawsat, Carlton P., 3,642,305.
- Pawsat, Carlton P.; and Humlong, Robert F., 3,647,242.
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- Pawsat, Carlton P.; and Humlong, Robert F., 3,701,289.
- Pawsat, Carlton P.; and Humlong, Robert F., 3,707,319.
- Wald, Milton M.: See—
Kiovisky, Thomas E.; and Wald, Milton M., 3,663,452.
- Kiovisky, Thomas E.; and Wald, Milton M., 3,668,109.
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Wiley, Morris A.; Lacoste, Roger G.; Henry, Clemence J.; and Waldbillig, James O., 3,640,872.
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Holland, Dewey G.; Moyer, Ronald C.; Poley, John H.; and Walde, Robert A., 3,699,156.
- Waldeck, John. Exercise and massage device. 3,707,284, 12-26-72, Cl. 272-58.000.
- Walden, Alan Frank: See—
Du Bois, Dominique; Heino, Jorgen; and Walden, Alan Frank, 3,663,443.
- Waldenburger, Hermann: See—
Decker, Herbert; and Waldenburger, Hermann, 3,674,126.
- Waldenburger, Hermann; and Decker, Herbert, to Triumph Werke Nurnberg AG. Single printing element positioning mechanism. 3,647,040, 3-7-72, Cl. 197-16.
- Walder, Andre: See—
Hivert, Andre; Lepetit, Pierre; and Walder, Andre, 3,695,869.
- Waldes Kohinoor, Inc.: See—
Coch, Lester, 3,690,935.
- Janecka, Gustav, 3,662,921.
- Wurzel, Hugo, 3,680,935.
- Waldkötter, Erich: See—
Mosch, Willi; Lutz, Gerhard; Putter, Lothar; Waldkötter, Erich; and Martin, Heinz, 3,702,954.
- Waldman, Jan. Mixing and dispensing apparatus. 3,669,358, 6-13-72, Cl. 222-129.000.
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Brubaker, Burton D.; and Waldman, Nathan, 3,673,290.
- Waldmann, Herbert. Anti-skid arrangement for wheeled vehicles. 3,690,361, 9-12-72, Cl. 152-216.000.
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Neuffer, Ingemar; and Waldmann, Hermann, 3,683,262.
- Waldmann, Hermann, to Siemens Aktiengesellschaft. Apparatus for supervising the functioning of an analog plural-channel regulating system. 3,689,802, 9-5-72, Cl. 317-27.00r.
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Klauser, Friedrich W.; Kroger, Johannes Hugo; and Waldmann, Wilhelm, 3,695,416.
- Waldner, Michael: See—
Zimmerman, Robert L.; Schweitzer, Bernard P.; Garvin, Hugh L.; Pedinoff, Melvin E.; and Waldner, Michael, 3,668,662.
- Waldo, Pharez, G.: See—
Plank, Charles J.; Waldo, Pharez, G.; and Doherty, Harry G., 3,669,875.
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Waldorff, Jorgen Frederik, to Danfoss A/S. Gearwheel machine. 3,668,947, 6-13-72, Cl. 74-804.000.
 Waldrich, H. A., GmbH: *See*—
 Klein, Ernst G.; and Klein, Artur, 3,665,655.
 Waldron, Alton L., to United States of America, Navy. Jet stream refueling system. 3,658,101, 4-25-72, Cl. 141-284.000.
 Waldron, Bradley C., to King Nutronics Corporation. Temperature calibration system. 3,699,800, 10-24-72, Cl. 73-1.00f.
 Waldron, David W. Fogging apparatus. 3,633,825, 1-11-72, Cl. 239-135.
 Waldron, David W., to Lowndes Engineering Co., Inc. Fogging method and apparatus. 3,702,306, 11-7-72, Cl. 252-305.000.
 Waldron, Linwood J., and Hastings, William J., to Spaulding Fibre Company, Inc. Lock-down mechanism. 3,659,913, 5-2-72, Cl. 312-71.000.
 Waldron, Robert D. Frozen shell metal melting means. 3,660,585, 5-2-72, Cl. 13-25.000.
 Waldron, Sheldon H. Fixture for hanging drapes. 3,684,232, 8-15-72, Cl. 248-300.000.
 Waldron, Kenneth M. Automated football games. 3,702,190, 11-7-72, Cl. 273-94.00r.
 Waldrop, Thomas W.: *See*—
 Pedersen, Poul K.; Wagstaff, Robert A.; and Waldrop, Thomas W., 3,678,772.
 Sadler, Loren G.; and Waldrop, Thomas W., 3,643,720.
 Stiefvater, Thomas L.; Greiner, James G.; Hale, John K.; and Waldrop, Thomas W., 3,664,105.
 Waldrop, Thomas W. Row crop attachment having frame with a transverse bar at the sickle. 3,660,970, 5-9-72, Cl. 56-98.000.
 Waldruhe de Montremy, Jacques, to Societe Francaise d'Optique et de Mecanique S.F.C.M. Stereoscopic viewing equipment. 3,687,534, 8-29-72, Cl. 353-7.000.
 Waldrum, John E., to Amchem Products, Inc. Sector spray device. 3,642,206, 2-15-72, Cl. 239-214.
 Waldrum, John E., to Amchem Products, Inc. Spray apparatus with movable head. 3,648,935, 3-14-72, Cl. 236-659.
 Waldrum, John E., to Amchem Products, Inc. Vibrating spray apparatus and method of spraying. 3,653,598, 4-4-72, Cl. 239-229.
 Waldvogel, Erwin: *See*—
 Bourquin, Jean-Pierre; Schwarb, Gustav; and Waldvogel, Erwin, 3,682,930.
 Waldvogel, Guy: *See*—
 Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,651,100.
 Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,655,650.
 Waldyssa S.A.: *See*—
 Fabbri, Ermanno, 3,662,513.
 Walen, Stephen W.: *See*—
 Hardesty, Edwin C.; Krumreich, Charles L.; Mulbarger, Albert E., Jr.; and Walen, Stephen W., 3,699,498.
 Walerowski, Reinhard, to Heinrich de Fries Gesellschaft mit beschränkter Haftung. Transporting device for containers. 3,631,999, 1-4-72, Cl. 214-390.
 Wales Metal Products, Inc.: *See*—
 Wiens, John M., 3,662,953.
 Wales, William S.: *See*—
 Westerman, Charles Webster; Scott, William G.; and Wales, William S., 3,633,210.
 Walesch, David J., and Mengler, Allan A. Ground core removing tool. 3,707,197, 12-26-72, Cl. 175-20.000.
 Walford, Gordon L.: *See*—
 Shen, Tsung-Ying; Walford, Gordon L.; Witzel, Bruce E.; and Jones, Howard, 3,632,760.
 Shen, Tsung-Ying; Ruyle, William V.; Witzel, Bruce E.; and Walford, Gordon L., 3,639,624.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,641,134.
 Shen, Tsung-Ying; Greenwald, Richard; Witzel, Bruce E.; and Walford, Gordon L., 3,642,997.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,646,200.
 Shen, Tsung-Ying; Walford, Gordon L.; and Witzel, Bruce E., 3,652,665.
 Shen, Tsung-Ying; Ruyle, William V.; Walford, Gordon L.; and Witzel, Bruce E., 3,655,679.
 Shen, Tsung-Ying; and Walford, Gordon L., 3,655,692.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,655,693.
 Shen, Tsung-Ying; Witzel, Bruce E.; Walford, Gordon L.; and Ruyle, William V., 3,655,697.
 Shen, Tsung-Ying; Walford, Gordon L.; Witzel, Bruce E.; and Bugianesi, Robert L., 3,657,430.
 Shen, Tsung-Ying; Walford, Gordon L.; and Witzel, Bruce E., 3,657,431.
 Shen, Tsung-Ying; Walford, Gordon L.; and Witzel, Bruce E., 3,657,432.
 Shen, Tsung-Ying; Walford, Gordon L.; and Witzel, Bruce E., 3,660,403.

Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,674,845.
 Shen, Tsung-Ying; Jones, Howard; Witzel, Bruce E.; and Walford, Gordon L., 3,674,844.
 Shen, Tsung-Ying; Ruyle, William V.; Witzel, Bruce E.; and Walford, Gordon L., 3,674,875.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,678,094.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,682,968.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,700,773.
 Shen, Tsung-Ying; Ruyle, William V.; Walford, Gordon L.; and Witzel, Bruce E., 3,703,582.
 Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,706,792.
 Walford, Lionel K.: *See*—
 Koenig, Jude H.; Schoeffel, James A.; Carron, Gene J.; and Walford, Lionel K., 3,663,812.
 Walford; Robert Bernard: *See*—
 Schmidt, Robert Benjamin; Smith, George Wallace, Jr.; and Walford, Robert Bernard, 3,702,010.
 Walger, Philip F.; and Walger, William F., to Minx Products, Inc. Fire-resistant bag. 3,637,000, 1-25-72, Cl. 150-3.
 Walger, William F.: *See*—
 Walger, Philip F.; and Walger, William F., 3,637,000.
 Walhof, Elmer T.: *See*—
 Walhof, Peter A.; and Walhof, Elmer T., 3,690,016.
 Walhof, Peter A.; and Walhof, Elmer T. Screening attachment for grain dryer. 3,690,016, 9-12-72, Cl. 34-174.000.
 Walitt, Arthur L.: *See*—
 Keilin, Bertram; and Walitt, Arthur L., 3,649,188.
 Waliullah, Safdar: *See*—
 Weir, Donald Robert; and Waliullah, Safdar, 3,658,508.
 Walk, Charles R.: *See*—
 Buzby, George C., Jr.; Walk, Charles R.; and Smith, Herchel, 3,686,317.
 Walk, George: *See*—
 Reiners, Franz; and Walk, George, 3,643,533.
 Reiners, Franz; and Walk, George, 3,682,025.
 Walk, George, to Monforts, A. Machine tool with pivotable tool carriage. 3,691,613, 9-19-72, Cl. 29-27.00c.
 Walk, George A.; and Jones, Clifford V., to Kennecott Copper Corporation. Replaceable insert for tucere pipes of metal-refining furnaces. 3,695,603, 10-3-72, Cl. 266-41.000.
 Walk, Ralph: *See*—
 Hart, Harry Patrick; Kakalec, Robert John; and Walk, Ralph, 3,699,424.
 Walk-On-Corporation: *See*—
 Shields, Michael Peter, 3,649,966.
 Walker, Alan B.; and Hall, Herbert J., to Research-Cottrell, Inc. Gas handling method and apparatus. 3,633,337, 1-11-72, Cl. 55-4.
 Walker, Alan John: *See*—
 Saidi, Farrokh; Shiraz, Iran; and Walker, Alan John, 3,658,066.
 Walker, Albert T., Jr. Lure. 3,690,028, 9-12-72, Cl. 43-17.600.
 Walker, Alec H. B., to Westinghouse Electric Corporation. Emergency fluorescent lighting apparatus. 3,688,123, 8-29-72, Cl. 307-66.000.
 Walker, Alfred C. Method and apparatus for reinforcing threaded connections under dynamic load. 3,682,440, 8-8-72, Cl. 254-29.00a.
 Walker, Archie L. Fly reel. 3,697,012, 10-10-72, Cl. 242-84.51r.
 Walker Bank and Trust Co.: *See*—
 Brimhall, Ray S., 3,691,019.
 Brimhall, Ray S., 3,697,412.
 Walker, Bobby T.; and Danna, Vincent F. Fishing device. 3,703,781, 11-28-72, Cl. 43-16.000.
 Walker Boudwin Construction Co., Inc.: *See*—
 Donnels, Wayne T., 3,700,202.
 Walker, Brian Allison, to Chrysler United Kingdom Limited. Wind-screen washing devices. 3,674,967, 7-4-72, Cl. 200-156.000.
 Walker, Brooks; and Hall, Fred V. Spark timing control for internal combustion engine. 3,631,845, 1-4-72, Cl. 123-117.
 Walker, Brooks. Energy absorber. 3,661,359, 5-9-72, Cl. 256-1.
 Walker, Brooks. Carburetor. 3,664,313, 5-23-72, Cl. 123-119.
 Walker, Brooks. Energy absorber. 3,664,653, 5-23-72, Cl. 267-139.
 Walker, Brooks. Engine spark timer. 3,688,753, 9-5-72, Cl. 123-117.00a.
 Walker, Carl A.: *See*—
 Bolger, John G., Jr.; and Walker, Carl A., 3,705,722.
 Walker, Charles S.: *See*—
 Hart, Dwight L.; Jagers, Henry T.; and Walker, Charles S., 3,648,035.
 Walker, Charles W. E. Microwave moisture measurement apparatus having movable mirror scanning means. 3,639,834, 2-1-72, Cl. 324-58.5.
 Walker, Charles W. E. Apparatus for measuring percent moisture content of particulate material using microwaves and penetrating radiation. 3,693,079, 9-19-72, Cl. 324-58.50a.
 Walker, Christopher H. C.: *See*—

Searle, Simon M. St. L.; and Walker, Christopher H. C., 3,679,297.
 Walker, Clarence L., to Sherwood Medical Industries Inc. Variable capacity fluid dispensing device. 3,640,434, 2-8-72, Cl. 222-144.5.
 Walker, Colin Graham; Leadbeater, Edward John; Darlington, Ralph Fredrick; Traczyk, Edmond Michael; and Kubilos, Charles A., to Abex Corporation. Multiple channel redundant control system. 3,665,809, 5-30-72, Cl. 91-363.00a.
 Walker Crossweller & Company Limited: *See*—
 Abron, Dennis C., 3,680,780.
 Arbon, Dennis Charles, 3,659,626.
 Walker, Dale A.: *See*—
 Babcock, Lyndon R., Jr.; and Walker, Dale A., 3,676,527.
 Walker, Darrell W.: *See*—
 Drehman, Lewis E.; and Walker, Darrell W., 3,670,044.
 Walker, Darrell W., to Phillips Petroleum Company. Oxidative conversion catalyst. 3,640,901, 2-8-72, Cl. 252-437.
 Walker, Darrell W., to Phillips Petroleum Company. High strength catalyst pellets. 3,668,151, 6-6-72, Cl. 252-466.
 Walker, David D.: *See*—
 Benjamin, Milton L.; Walker, David D.; and Miles, Wilbur N., 3,658,351.
 Benjamin, Milton L.; and Walker, David D., 3,658,434.
 Walker, David G.: *See*—
 Long, Robert B.; Caruso, Fred A.; DeFeo, Richard J.; and Walker, David G., 3,651,159.
 Walker, David G., to Tenneco Chemicals Inc. Process for the purification of hydrocarbon pyrolysis gas streams. 3,638,399, 2-1-72, Cl. 55-59.
 Walker, David G.; and Keyworth, Donald A., to Tenneco Chemicals, Inc. Acetylene-cuprous aluminum tetrachloride complex and a process for its production. 3,647,843, 3-7-72, Cl. 260-438.1.
 Walker, David G.; and Keyworth, Donald A., to Tenneco Chemicals, Inc. Process for the safe handling of C₂ and C₄ acetylenic hydrocarbons. 3,706,181, 12-19-72, Cl. 55-63.000.
 Walker, Donald E., to Barber-Greene Company. Idler roll structure with improved bearing seal assembly. 3,680,933, 8-1-72, Cl. 308-187.100.
 Walker, Donald L.: *See*—
 Borman, William M.; and Walker, Donald L., 3,644,883.
 Walker, Douglas J.: *See*—
 Bunnell, Douglas E.; and Walker, Douglas J., 3,696,970.
 Walker, Eddie Bob, to Dow Chemical Company, The. Solid, curable polyepoxides modified with hydrolyzed liquid polyepoxides. 3,632,836, 1-4-72, Cl. 260-830.
 Walker, Edward R.: *See*—
 O'Brien, Donald G.; and Walker, Edward R., 3,641,479.
 Walker, Erich: *See*—
 Baumgartner, Werner Richard; Walker, Erich; Kaufmann, Hans Peter; and Biene, Canton, 3,683,613.
 Walker, Ernest L.: *See*—
 Beausoleil, William F.; Brown, David T.; and Walker, Ernest L., 3,670,313.
 Walker, Eugene J.: *See*—
 Salvati, John G.; and Walker, Eugene J., 3,652,961.
 Walker, Frank A.: *See*—
 Dupree, James N.; and Walker, Frank A., 3,665,459.
 Walker, Frank Stanley: *See*—
 Wills, Graham Boyce; and Walker, Frank Stanley, 3,701,683.
 Walker, Fred J.: *See*—
 Bomba, Georg A., 3,672,340.
 Walker, Gary J.: *See*—
 Weatherman, John F.; Walker, Gary J.; and Conley, Larry R., 3,705,970.
 Walker, Geoffrey: *See*—
 Goldup, Alan; Westaway, Michael Thomas; and Walker, Geoffrey, 3,645,891.
 Walker, Gerald R.: *See*—
 De Rees, Delbert D.; and Walker, Gerald R., 3,703,053.
 Walker, Gerard F., to Whittaker Corporation. Metal bonding process. 3,699,636, 10-24-72, Cl. 29-432.000.
 Walker, Gordon Northrop, to Ciba Corporation. 11-Amino-6-morphanthridones. 3,632,572, 1-4-72, Cl. 260-239.3.
 Walker, Gordon Northrop, to Ciba Corporation. Certain 2-amino-4-phenyl-3,4-dihydroquinazolines. 3,646,028, 2-29-72, Cl. 260-256.5.
 Walker, Gordon Northrop, to Ciba Corporation. 11-Aminoalkyl ethers of 6-morphanthridones. 3,652,550, 3-28-72, Cl. 260-239.3.
 Walker, Gordon Richard; and Murray, William. Rotary unions. 3,658,092, 4-25-72, Cl. 137-625.21.
 Walker, Grant W.: *See*—
 Young, Bruce O.; Walker, Grant W.; Ford, Duane B.; and Seegmiller, Wan, 3,672,657.
 Young, Bruce O.; Walker, Grant W.; Ford, Duane B.; and Seegmiller, Wan, 3,674,115.
 Walker, Grant W.; Ford, Duane B.; and Meinzer, Lester N., to Dynamics Research and Manufacturing, Inc. Energy absorbing device. 3,666,055, 5-30-72, Cl. 188-1.
 Walker, Grant W.; and Ford, Duane B., to Rich, John, Enterprises, Inc. Liquid shock absorbing buffer. 3,680,662, 8-1-72, Cl. 188-1.00b.
 Walker, Grant W.; Ford, Duane B.; Meinzer, Lester N.; and Larsen, Reid S., to Dyanamics Research and Manufacturing, Inc. Shock absorbing structure. 3,695,583, 10-3-72, Cl. 256-1.000.
 Walker, Harold D., to Dresser Industries, Inc. Electro-hydraulically controlled perforator. 3,648,785, 3-14-72, Cl. 175-4.54.
 Walker, Harold L., to Applications Unlimited, Inc. Pressurized continuous flow liquid applicator with shut-off valve. 3,640,630, 2-8-72, Cl. 401-188.
 Walker, Harold R.; and Kamen, Ira, to Homarket Inc. Television receiver cut-in device. 3,639,686, 2-1-72, Cl. 178-5.8.
 Walker, Harry D., Jr.: *See*—
 Chari, Nallan C. S.; Charos, Andrew D.; and Walker, Harry D., Jr., 3,634,187.
 Walker, Harry L., to Phillips Petroleum Company. Fractionation control system and process with plural feed stream controls. 3,697,384, 10-10-72, Cl. 203-1.000.
 Walker, Howard B.: *See*—
 Needham, Donald G.; Walker, Howard B.; and Myers, Luther O., Jr., 3,694,543.
 Walker, Howard R., to Podgor, Joseph E., Inc. Silk screen stencil apparatus and method. 3,696,738, 10-10-72, Cl. 101-38.000.
 Walker, Jack: *See*—
 Moltzan, Herbert J.; and Walker, Jack, 3,642,521.
 Walker, James Donald, to Chicago Bridge & Iron Company. Complete mix sewage treatment system. 3,649,529, 3-14-72, Cl. 210-4.
 Walker, James Donald, to Chicago Bridge & Iron Company. Method and apparatus for dispersing coagulant into a water stream. 3,666,663, 5-30-72, Cl. 210-49.
 Walker, James Donald, to Chicago Bridge & Iron Company. Air-lift pump with scalloped air-liberation rings, at two levels. 3,694,106, 9-26-72, Cl. 417-109.000.
 Walker, James Donald, to Chicago Bridge & Iron Company. Deep tank aeration using eductor tubes of elongate cross-section. 3,696,029, 10-3-72, Cl. 210-14.000.
 Walker, James L.: *See*—
 Tarshis, Lemuel A.; and Walker, James L., 3,690,874.
 Tarshis, Lemuel A.; Walker, James L.; and Berry, Thomas F., 3,696,500.
 Walker, James L.; and Chmiel, Chester T., to Uniroyal, Inc. Compositions of matter and solid golf balls made therefrom. 3,666,272, 5-30-72, Cl. 273-218.
 Walker, James V., to McDonnell Douglas Corporation. Split piston ring and method of manufacture. 3,655,208, 4-11-72, Cl. 277-221.
 Walker, James V., to McDonnell Douglas Corporation. Fluid sealing device. 3,698,728, 10-17-72, Cl. 277-165.000.
 Walker, Jerome F.; and Daniels, Stuart F., to Digital General Corporation. Apparatus and method for testing electrical systems having a plurality of terminals. 3,633,016, 1-4-72, Cl. 235-153.
 Walker, Jerome F., to Brunswick Corporation. Electronic scorer for bowling games. 3,700,236, 10-24-72, Cl. 273-54.00c.
 Walker, Jimmy Aubrey, to Susquehanna Corporation, The. Opacity meter with noise suppression. 3,655,289, 4-11-72, Cl. 356-201.
 Walker, John: *See*—
 Dunning, Robert William; Taylor, Keith Andrew; and Walker, John, 3,642,935.
 Walker, John; and McEuan, Ronald Hindmarch, to Polymer Corporation Limited. Non-curing, thermosensitive sealant tape. 3,649,438, 3-14-72, Cl. 161-162.
 Walker, John F., to Hercules Incorporated. Resinous reaction product of ethylene glycol and DMT esterified oxidate residue. 3,647,759, 3-7-72, Cl. 260-75.
 Walker, John H., to Bendix Corporation, The. Fluid-operated gage. 3,665,753, 5-30-72, Cl. 73-37.900.
 Walker, John L., Sr.: *See*—
 Patterson, Robert E.; and Walker, John L., Sr., 3,646,930.
 Walker, Johnnie, Medical Electronics, Inc.: *See*—
 Patterson, Robert E.; and Walker, John L., Sr., 3,646,930.
 Walker, Jonas: *See*—
 Oppenheim, Henry; and Walker, Jonas, 3,683,731.
 Walker, Joseph J.: *See*—
 Bell, Oran M.; and Walker, Joseph J., 3,680,551.
 Bell, Oran M.; and Walker, Joseph J., 3,680,552.
 Walker, Kenneth Allan: *See*—
 Stamp, George Frederick; and Walker, Kenneth Allan, 3,664,296.
 Walker, Lloyd A.; and Peterson, Rudolph A., to Aerojet-General Corporation. Pressure casting apparatus. 3,663,148, 5-16-72, Cl. 425-405.000.
 Walker, Lynn P.: *See*—
 Oleszko, Thaddeus J.; and Walker, Lynn P., 3,649,212.
 Oleszko, Thaddeus J.; and Walker, Lynn P., 3,674,890.
 Walker Manufacturing Company: *See*—
 Heath, Robert A.; and Martoia, Ronald J., 3,648,803.
 Hopkins, John D.; McLaren, James C.; Johnson, Ronald A.; and Offer, Robert J., 3,686,837.

- Walker, Marvin, to Ski-Doo Sports Ltd. Combined belt and ski jacket. 3,670,340, 6-20-72, Cl. 2-93.000.
- Walker, Maurice Mark, to Tektronix, Inc. Multivibrator circuits employing or-nor gates. 3,680,003, 7-25-72, Cl. 331-108.000.
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- Walker, Norman E. Exercise device having foot restraining means. 3,682,475, 8-8-72, Cl. 272-58.000.
- Walker, Patrick J., to Kinkead Industries, Incorporated. Ladder stabilizer. 3,693,756, 9-26-72, Cl. 182-129.000.
- Walker, Peter Martin Brabazon, to MSE Holdings Limited. Radiation sensitive analytical centrifuge. 3,652,860, 3-28-72, Cl. 250-21.
- Walker, Ralph E., to Litton Precision Products, Inc. Shaft coupling. 3,636,728, 1-25-72, Cl. 64-11.
- Walker, Raymond W., to Deep Oil Technology, Inc. Power wrench for making underwater pipe connections. 3,668,949, 6-13-72, Cl. 81-57.130.
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- Walker, Richard A.: *See—*
Field, Lester M.; Walker, Richard A.; and McKee, William E., 3,640,712.
- Walker, Richard K., to E.R.E. Laboratory, Inc. Reversible endless loop cartridge projector for teaching machines. 3,677,628, 7-18-72, Cl. 352-128.000.
- Walker, Richard L., to Du Pont de Nemours, E. I., and Company. Process for preparing 3'-hydroxyquinophthalone-5-carboxylic acids. 3,639,405, 2-1-72, Cl. 260-287.
- Walker, Richard M. Orthodontal toothpick. 3,698,405, 10-17-72, Cl. 132-84.000.
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Friedman, Jerrold; and Walker, Robert, 3,663,083.
- Walker, Robert, to Medusa Portland Cement Company, mesne. Continuous curb-forming machine. 3,665,821, 5-30-72, Cl. 94-46.000.
- Walker, Robert C.: *See—*
Crosby, Nobel W.; Walker, Robert C.; and Clarke, Gordon J., 3,670,372.
- Walker, Robert G.: *See—*
Hill, Donald Everett; and Walker, Robert G., 3,686,735.
- Payne, Stanley D.; Hill, Donald E.; and Walker, Robert G., 3,685,118.
- Walker, Robert G., to Industria Products, Inc. Feed mechanism overload release. 3,659,329, 5-2-72, Cl. 29-205.
- Walker, Robert G.; and Hill, Donald E., to Industria Products, Inc. Wedgemaker. 3,694,887, 10-3-72, Cl. 29-205.000.
- Walker, Robert H. Method and apparatus for manufacturing tumbling media. 3,670,467, 6-20-72, Cl. 51-298.000.
- Walker, Robert J. Nozzle for mouth-flushing apparatus. 3,638,866, 2-1-72, Cl. 239-544.
- Walker, Robert R.; and Pepin, James J., to Allegheny Ludlum Steel Corporation. Strippable protective film. 3,642,564, 2-15-72, Cl. 161-145.
- Walker, Robert R., Jr.: *See—*
Babb, Billy W., 3,674,288.
- Walker, Robert W., to Valeron Corporation, The. Small point retractable boring tool. 3,667,856, 6-6-72, Cl. 408-158.000.
- Walker, Wellington E.: *See—*
Matzner, Markus; McGrath, James E.; Manyik, Robert M.; and Walker, Wellington E., 3,696,075.
- Walker, Wendell C.: *See—*
Davidson, William E.; Walker, Wendell C.; and Foster, Harold S., 3,685,181.
- Davidson, William E.; and Walker, Wendell C., 3,685,182.
- Foster, S. Harold; and Walker, Wendell C., 3,665,152.
- Walker, Wendell C.; and Davidson, William E., to General Electric Company. Spray iron. 3,664,045, 5-23-72, Cl. 38-77.5.
- Walker, William: *See—*
Levy, Joseph; and Walker, William, 3,660,411.
- Walker, William Bruce, to FMC Corporation. Tomato harvester with sinusoidal oscillating shaker. 3,633,677, 1-11-72, Cl. 171-27.
- Walker, William Foster: *See—*
Hankison, Paul M.; and Walker, William Foster, 3,635,238.
- Walker, William Frank: *See—*
White, Raymond Charles; and Walker, William Frank, 3,688,326.
- Walker, William G.: *See—*
Spangler, Herbert D.; and Walker, William G., 3,689,641.
- Walker, William G., to Nuclear-Chicago Corporation. Scintillation camera having improved peripheral response. 3,668,395, 6-6-72, Cl. 250-71.50r.
- Walker-Neer Manufacturing Co., Inc.: *See—*
Campbell, John David, 3,664,443.
- Walkey, George J.; and Adgate, Frank N., to Lockheed Aircraft Corporation. Method of fabricating metal dies. 3,631,745, 1-4-72, Cl. 76-107.
- Walking, W. Douglas, to Lilly, Eli, and Company. Pharmacological preparation containing an acronyline-polyvinylpyrrolidone coprecipitate. 3,673,163, 6-27-72, Cl. 260-279.00r.
- Walking, Rudolf: *See—*
Esslinger, Paul; and Walkling, Rudolf, 3,662,811.
- Walkow, Arnold M., to Texas Instruments, Incorporated. Electronic printhead protection. 3,632,969, 1-4-72, Cl. 219-216.
- Walkow, Arnold M.; and Canion, Joseph R., to Texas Instruments, Incorporated. Method and apparatus for protecting electronic printheads. 3,632,970, 1-4-72, Cl. 219-216.
- Walkowiak, Paul, to Peters, Claudius, Aktiengesellschaft. Breaker for hot material. 3,662,961, 5-16-72, Cl. 241-56.
- Walkowsky, Bernhard: *See—*
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- Walkup, Lewis E.; and Jones, Rexford W., to Xerox Corporation. Method of preparing and utilizing a gravure printing master. 3,638,567, 2-1-72, Cl. 101-170.
- Walkup, Norris W.; Mauck, James W.; and Hood, Irvin D., to National Distillers and Chemical Corporation. Method for attaching handles to containers or the like. 3,631,584, 1-4-72, Cl. 29-434.
- Wall, Alfred J.: *See—*
Hall, Roger L.; McKenney, Gordon M., Jr.; and Wall, Alfred J., 3,655,192.
- Wall, Bobby M.: *See—*
Thompson, Grant; and Wall, Bobby M., 3,698,967.
- Wall, Byron T. Cigarette. 3,664,350, 5-23-72, Cl. 131-10.
- Wall, Charles A.; and Lutz, F. Norman, to Warner & Swasey Company, The. Wire twister. 3,685,271, 8-22-72, Cl. 57-68.000.
- Wall Colmonoy Corporation: *See—*
Bredsz, Nikolajs; and Miller, Forbes M., 3,666,436.
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- Bredsz, Nikolajs, 3,705,791.
- Wall, Donald G.; and Temkin, Kenneth N. Peristaltic extrusion press. 3,701,618, 10-31-72, Cl. 425-192.000.
- Wall, Eugene W.: *See—*
Wall, Harry W.; and Wall, Eugene W., 3,701,188.
- Wall, Harry W.; and Wall, Eugene W., to Wall Machine Works. Helically fluted router bit. 3,701,188, 10-31-72, Cl. 29-103.00a.
- Wall, Joseph S.: *See—*
Christianson, Donald D.; Stringfellow, Arthur C.; and Wall, Joseph S., 3,661,593.
- Wall, Lamar J., to Poly-Optics, Inc. Decorative structure for flared fibres. 3,641,335, 2-8-72, Cl. 240-10.
- Wall, Leo A.; and Antonucci, Joseph M., to United States of America, Navy. Method of making perfluorostyrene. 3,655,785, 4-11-72, Cl. 260-651.
- Wall Machine Works: *See—*
Wall, Harry W.; and Wall, Eugene W., 3,701,188.
- Wall, Reginald Victor; and Page, Harold Rodney Sven, to Plessey Handel und Investments A.G. Fluid testing apparatus. 3,698,238, 10-17-72, Cl. 73-53.000.
- Wall, Richard H., to Thiokol Chemical Corporation. Rocket assisted projectile. 3,698,321, 10-17-72, Cl. 102-49.300.
- Wall, Richard James: *See—*
Chilman, John Alfred; and Wall, Richard James, 3,635,583.
- Chilman, John Alfred; and Wall, Richard James, 3,635,584.
- Wall, Thomas M., to West Point-Pepperell, Inc. Automatic doffer for articles adhered to a conveyor belt. 3,677,538, 7-18-72, Cl. 271-76.000.
- Wall, Thomas P. Antisnoring device. 3,696,377, 10-3-72, Cl. 340-279.000.
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Wallo, William H., 3,694,792.
- Wallac Oy: *See—*
Soini, Erkki Juhani, 3,662,706.
- Wallace, Archie C. Time controlled alarm system having actuator moving along rotating shaft. 3,696,381, 10-3-72, Cl. 340-309.40r.
- Wallace, Baird; and Smith, Philip E., Jr., to Olin Corporation. Target shooting apparatus. 3,680,863, 8-1-72, Cl. 273-101.000.
- Wallace, Bruce Alden, to Pullman Incorporated. Cracking furnace having thin, straight single pass reaction tubes. 3,671,198, 6-20-72, Cl. 23-277.000.
- Wallace, Charles H. Method of processing hams. 3,653,918, 4-4-72, Cl. 99-107.
- Wallace, Charles H., to International Telephone and Telegraph Corporation. Method and apparatus for slaughtering animals. 3,657,770, 4-25-72, Cl. 17-45.
- Wallace, Clarence, to Medical Plastics, Inc. Combined plastic-glass microscope slides. 3,656,833, 4-18-72, Cl. 350-95.
- Wallace, Clifford G.: *See—*
Butler, Fred C.; Johnson, Nathaniel M.; and Wallace, Clifford G., 3,683,302.
- Wallace, David B. Winch drum drive and control. 3,697,049, 10-10-72, Cl. 254-187.00r.
- Wallace, David J.: *See—*
Weaver, Max A.; and Wallace, David J., 3,657,187.
- Weaver, Max A.; and Wallace, David J., 3,657,215.
- Weaver, Max A.; and Wallace, David J., 3,699,092.
- Wallace Expanding Machines, Inc.: *See—*
Roper, Ralph E., 3,686,921.
- Wallace, Forrest E. Dispensing device for dry wall tape and joint cement. 3,669,070, 6-13-72, Cl. 118-102.000.

- Wallace, Frank Blakeslee, Jr., to Garrett Corporation, The. Two-spool auxiliary power unit and control means. 3,680,309, 8-1-72, Cl. 60-39.070.
- Wallace, Frank E.: *See—*
Deramo, Anthony D.; Smith, Andrew W., Jr.; Wallace, Frank E.; and Goldbach, Robert J., 3,631,697.
- Wallace, George O., to Diversified Industries Inc., mesne. Dampened railway truck. 3,654,870, 4-11-72, Cl. 105-197.
- Wallace, George O., to Schullin Steel Company. Dampened railway truck. 3,654,871, 4-11-72, Cl. 105-197.
- Wallace, Harry L.; and Williams, Richard M., to Burroughs Corporation. Programming system. 3,636,521, 1-18-72, Cl. 340-172.5.
- Wallace, Harry L., to Burroughs Corporation. Actuatable drive screw device. 3,636,780, 1-25-72, Cl. 74-89.15.
- Wallace, Harry L., to Burroughs Corporation. Intermittent web advancing device. 3,677,452, 7-18-72, Cl. 225-11.000.
- Wallace, Harry L., to Burroughs Corporation. High speed multiple tape serial printing mechanism. 3,704,666, 12-5-72, Cl. 101-90.000.
- Wallace, Howard O. Building component and system. 3,699,736, 10-24-72, Cl. 52-436.000.
- Wallace, Jacob L., Jr., to Susquehanna Corporation, The. Method and apparatus for measuring speed-error in a pulse train. 3,699,255, 10-17-72, Cl. 178-69.00m.
- Wallace, James M.: *See—*
De Corso, Serafino M.; and Wallace, James M., 3,689,740.
- Wallace, John G.; and Schreiner, Edmund, to Synergistics, Inc. High speed indenting recorder. 3,644,932, 2-22-72, Cl. 346-77.
- Wallace, Joseph M. Connector for aircraft windshields. 3,636,502, 1-18-72, Cl. 339-198.
- Wallace, Joseph M. Emergency flare holder. 3,648,848, 3-14-72, Cl. 211-8.
- Wallace, R. Eugene: *See—*
Zagotta, Joseph L.; Wallace, R. Eugene; and Burlington, Donald A., 3,680,737.
- Wallace, Richard A.: *See—*
Kartchner, Earl M.; Van Horn, Gary R.; and Wallace, Richard A., 3,665,472.
- Wallace, Richard M. Bolt anchor assembly. 3,700,020, 10-24-72, Cl. 151-41.700.
- Wallace, Richard R.: *See—*
Bowen, Howard; Henderson, David L.; and Wallace, Richard R., 3,655,945.
- Wallace, Robert F.: *See—*
Christiansen, Paul J.; and Wallace, Robert F., 3,648,118.
- Wallace, Robert H.: *See—*
Gilman, Gerald I.; and Wallace, Robert H., 3,693,044.
- Wallace, Robert J. Street curbs made of synthetic resins. 3,698,290, 10-17-72, Cl. 94-31.000.
- Wallace, Robert L., Jr.: *See—*
Mitchell, Olga M. M.; Ross, Carolyn A.; and Wallace, Robert L., Jr., 3,644,674.
- Wallace, Robert Lee, Jr.: *See—*
Sessler, Gerhard Martin; Wallace, Robert Lee, Jr.; and West, James Edward, 3,668,417.
- Wallace, Robert P., to Mite Corporation. Apparatus for utilizing hot and cool gas for thrust embedding a metal insert in a body of heat softenable material. 3,640,655, 2-8-72, Cl. 18-1.
- Wallace, Robert S. Tape cassette sleeve. 3,664,492, 5-23-72, Cl. 206-1.
- Wallace, Samuel P. Pleat computing and forming apparatus. 3,633,800, 1-11-72, Cl. 223-28.
- Wallace Supplies Manufacturing Company: *See—*
Dewitt, Edward J., 3,680,264.
- Wallace, W. J., Systems, Inc.: *See—*
Wallace, Walter J., Jr., 3,688,893.
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- Wallace, William A. Well bore seal apparatus for closed fluid circulation assembly. 3,638,742, 2-1-72, Cl. 175-325.
- Wallace, William B.: *See—*
Moore, Harold R.; Robin, Haral T.; and Wallace, William B., 3,688,233.
- Wallace, William K.: *See—*
Amsberg, Lester A.; and Wallace, William K., 3,645,341.
- Wallace, William R. J., to Hygrade Foods Inc. Conveyor mechanism for sausage-like products. 3,680,757, 8-1-72, Cl. 226-105.000.
- Wallace-Murray Corporation: *See—*
Berg, Robert A.; Decker, Robert W.; Hart, Donald R.; and Weber, David J., 3,645,119.
- Harvill, J. D.; and Harlan, Kenneth C., 3,664,165.
- Kolesh, Victor A.; and Armstrong, Edward W., 3,633,637.
- Stone, Richard L., 3,650,198.
- Wallach, Karl-Erhard: *See—*
Lauer, Karl; Spingler, Helmut; Wallach, Karl-Erhard; and Stoeck, Georg, 3,694,158.
- Wallach, Ronald M., to Cryomedics, Inc. Cryosurgical instrument. 3,696,813, 10-10-72, Cl. 128-303.100.
- Wallberg, Eric W.: *See—*
Ekfeldt, Axel E.; and Wallberg, Eric W., 3,696,542.
- Walle, Leonard A., to Du Pont de Nemours, E. I., and Company. Thermosetting acrylic enamel containing minor amounts of cellulose acetate butyrate. 3,671,293, 6-20-72, Cl. 117-74.000.
- Wallen, Bengt, to Allmanna Svenska Elektriska Aktiebolaget. Means for electrolytically depositing metal on an object or for anodic oxidation of an object. 3,696,017, 10-3-72, Cl. 204-195.00r.
- Wallenius, Jan Folke: *See—*
Eriksson, Anders Karl Oskar; and Wallenius, Jan Folke, 3,678,791.
- Wallenstein, Mihaly, to Ganz Villamossagi Muvek. Device for increasing the intensity of gas cooling of electrical machines with high-speed rotor. 3,665,230, 5-23-72, Cl. 310-60.000.
- Waller, Arnoud: *See—*
van Es, Adriaan Cornelis; and Waller, Arnoud, 3,632,307.
- Waller, Arthur, to Bull Dog Lock Company. Retaining clip assembly. 3,704,563, 12-5-72, Cl. 52-455.000.
- Waller, David P.: *See—*
Simon, Myron S.; and Waller, David P., 3,702,245.
- Waller, Gustav M., to Burgess-Norton Mfg., Co. Method of fabrication of abrasive device. 3,687,647, 8-29-72, Cl. 51-309.000.
- Waller, Henry A., to Consolidated Controls Corporation. Latching assembly with magnetic locking. 3,635,511, 1-18-72, Cl. 292-251.5.
- Waller, Henry A., to Consolidated Controls Corporation. Valve with differential clutching valve actuator. 3,704,853, 12-5-72, Cl. 251-59.000.
- Waller, John G.: *See—*
Pearl, David L.; Waller, John G.; and Head, Beverly P., Jr., 3,664,574.
- Pearl, David L.; Harris, George E.; Waller, John G.; and Head, Beverly P., Jr., 3,690,986.
- Waller, John J.: *See—*
Huibers, Derk Th. A.; and Waller, John J., 3,699,147.
- Waller, Norbert, to Gottlieb Binder Holzgerlingen. Knitted fabric with projecting barbs. 3,654,054, 4-4-72, Cl. 161-48.
- Waller, Richard E.: *See—*
Serafini, Anthony R.; Balkovic, Joseph A.; Waller, Richard E.; and Wunch, Karl A., 3,636,855.
- Waller, Robert W., to Information International, Inc. Vector generator for rectangular cartesian coordinate positioning system. 3,649,819, 3-14-72, Cl. 235-151.
- Walles, Wilhelm E.; and Davies, James J., to Dow Chemical Company, The. Method of deagglomerating polymer particles. 3,634,385, 1-11-72, Cl. 260-94.9.
- Walles, Wilhelm E., to Dow Chemical Company, The. Polymeric complexes of saccharin and cyclohexanesulfamic acid. 3,642,704, 2-15-72, Cl. 260-77.5.
- Walles, Wilhelm E.; Caiola, Robert J.; and Donald, Harold J., to Dow Chemical Company, The. Sulfonated plastic duplicating masters. 3,685,446, 8-22-72, Cl. 101-453.000.
- Walles, Wilhelm E., to Dow Chemical Company, The. All-plastic electric capacitor. 3,689,810, 9-5-72, Cl. 317-25.00p.
- Walles, Wilhelm E.; McIntire, Otis R.; Rieke, James K.; and Griggs, Max V., to Dow Chemical Company, The. Internally treated plastic food containers. 3,705,041, 12-5-72, Cl. 99-171.01p.
- Walley, Gerald D., to British Aircraft Corporation Limited. Trolley for recoverable spacecraft. 3,672,606, 6-27-72, Cl. 244-1.0ss.
- Wallgard, Gunnar Alexius, to SAAB Aktiebolag. Vehicle track block signal apparatus. 3,638,014, 1-25-72, Cl. 246-91.
- Wallgren, Harald Anton Ake, to Aktiebolaget Electrolux. Valve structure for controlling flow of liquid into a pneumatic liquid disposal system. 3,695,284, 10-3-72, Cl. 137-188.000.
- Wallhauser, Karl Heinz: *See—*
Lindner, Fritz; Wallhauser, Karl Heinz; and Huber, Gerhard, 3,674,866.
- Wallick, Claude Rollin, Jr.; Blodgett, William Edward; and Lazor, Donald Keith, to American Standard, Inc. Powder compacting press. 3,664,799, 5-23-72, Cl. 25-29.000.
- Wallick, Seymour: *See—*
Price, Howard; Wallick, Seymour; and Math, Irwin, 3,638,561.
- Wallin, Hans Erik: *See—*
Stromberg, Sven Ake Olof; Thurenius, Ake Gunnar Herbert; and Wallin, Hans Erik, 3,633,135.
- Wallingford, Clarence Robert, to Hazeltine Research, Inc. Semiconductor signal generating circuits. 3,641,369, 2-8-72, Cl. 307-260.
- Wallington, Frederick L.: *See—*
Banyas, John D.; and Wallington, Frederick L., 3,637,074.
- Wallington, Frederick L., to Owens-Illinois, Inc. Article inspection and reject system. 3,656,616, 4-18-72, Cl. 209-74.
- Wallington, Frederick L., to Owens-Illinois, Inc. Base sealer. 3,695,980, 10-3-72, Cl. 156-583.000.
- Wallis, Bernard J. Press unloader. 3,653,293, 4-4-72, Cl. 83-82.
- Wallis, Bernard J. Transfer device. 3,661,247, 5-9-72, Cl. 198-218.
- Wallis, Bernard J. De-stacking device for sheet metal blanks. 3,669,445, 6-13-72, Cl. 271-26.000.
- Wallis, Craig; and Melnick, Joseph L., to Monsanto Company. Method for the immunization of a living animal body against viral disease. 3,651,213, 3-21-72, Cl. 424-89.
- Wallis, George; Dorsey, John J.; and Phillips, Bernard L., to Mallory, P. R., & Co., Inc. Hermetic seal. 3,646,405, 2-29-72, Cl. 317-230.

- Wallis, George C., to Ford Motor Company. Non-reversible odometer. 3,636,320, 1-18-72, Cl. 235-95.
- Wallis, Neil Rudolf: *See—*
- Wanner, Maurice Paul; and Wallis, Neil Rudolf, 3,700,389.
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- Wallis, Robert L., to Dow Chemical Company, Division, Beloit Corporation. Turret mounted flying splice unwind. 3,655,143, 4-11-72, Cl. 242-58.3.
- Wallmannsberger, Georg. Detachable gripping means for monocabable aerial tramways. 3,685,457, 8-22-72, Cl. 104-205.000.
- Wallmark, John Torkel, to Institutet for Halvledarforskning AB. Voltage responsive capacitance device and a method of producing such a device. 3,638,078, 1-25-72, Cl. 317-234.
- Wallo, Kenneth George: *See—*
- Sufferin, Donald Bruce Borders; Osterberg, Arnold Curtis; and Wallo, Kenneth George, 3,706,835.
- Wallo, William H., to Wall-Able Manufacturing Corporation. Electrical terminal clamp. 3,694,792, 9-26-72, Cl. 339-97.00r.
- Wallouch, Rudolph W., to Air Reduction Company, Incorporated. Method of inhibiting puffing in the manufacture of graphite articles from sulfur-containing petroleum coke. 3,642,962, 2-15-72, Cl. 264-29.
- Wallouch, Rudolph W., to Airco, Inc. Process and composition for the manufacture of oxidation resistant graphite articles. 3,706,596, 12-19-72, Cl. 117-169.00a.
- Wallrabenstein, Michael: *See—*
- Schopf, Albert; Wallrabenstein, Michael; Rupp, Hans-Dieter; Magerlein, Helmut; Grotjahn, Heinz; and Meyer, Gerhard, 3,661,836.
- Walls, Harold D., to McCreary Industrial Products Co. Lightweight roll construction. 3,662,446, 5-16-72, Cl. 29-130.000.
- Walls, Henry M.; Sayers, George M.; and Walls, Noel B., to Thermo-Sentinel Corporation. Waterless cooking apparatus. 3,701,344, 10-31-72, Cl. 126-388.000.
- Walls, Noel B.: *See—*
- Walls, Henry M.; Sayers, George M.; and Walls, Noel B., 3,701,344.
- Walls, Patrick Joseph. Internal combustion engine or compressor. 3,694,109, 9-26-72, Cl. 417-261.000.
- Wallshein, Melvin. Orthodontic systems. 3,683,502, 8-15-72, Cl. 32-14.00a.
- Wallshein, Melvin. Orthodontic system for turning a tooth. 3,691,635, 9-19-72, Cl. 32-42.000.
- Wallskog, Alan G., to Edelman, E., & Co. Hydrometer. 3,691,847, 9-19-72, Cl. 73-441.000.
- Wallskog, Alan G., to Teletype Corporation. Type carrier assembly. 3,696,204, 10-3-72, Cl. 178-27.000.
- Wallsten, Hans I., to AB Inventing. Method and means for drying moist material, such as paper, cellulose, other fibres of the like. 3,659,347, 5-2-72, Cl. 34-9.
- Wally, Harry W. Tape playback adapter for playing through a radio receiver. 3,632,901, 1-4-72, Cl. 179-100.11.
- Wally, Joseph H., Jr., to Western Blue Print Co. Photo reproduction apparatus. 3,639,054, 2-1-72, Cl. 355-18.
- Wally, Joseph H., Jr., to Western Blue Print Co. Camera-projector with vacuum film platen. 3,645,621, 2-29-72, Cl. 355-76.
- Walma, Jan. Clock or indicating device. 3,631,668, 1-4-72, Cl. 58-7.
- Walmet Corporation, The: *See—*
- Rymas, Frank, 3,677,722.
- Walmsley, David Arthur Gregson; and Sampson, Roy John, to Imperial Chemical Industries Limited. Production of non-conjugated dienes having 4,7, 8,9-tetrahydroindene structures from a hydrocarbon mixture containing cyclopentadiene and another C₅ conjugated diene and production of vulcanizable copolymers therefrom by polymerization with α -olefins. 3,661,871, 5-9-72, Cl. 260-80.78.
- Walmsley, Judith A., to Owens-Illinois, Inc. Metal-containing polymers of organic dithiolic acid and methods of making the same. 3,642,721, 2-15-72, Cl. 260-78.4.
- Walon, Raoul Guillaume Philippe, to CPC International Inc. Preparation of starch derivatives containing both carboxyl and carbonyl groups. 3,634,395, 1-11-72, Cl. 260-233.3.
- Walon, Raoul Guillaume Philippe, to CPC International Inc., mesne. Production of resins from reducing sugars. 3,660,377, 5-2-72, Cl. 260-211.
- Walon, Raoul Guillaume Philippe, to CPC International Inc., mesne. Soft candy containing confectionery syrup. 3,692,542, 9-19-72, Cl. 99-134.00r.
- Walon, Raoul Guillaume Philippe, to CPC International Inc. and Les Industries du Mais, S.A. Method of producing granular dextrose. 3,650,829, 3-21-72, Cl. 127-60.
- Walowski, Raymond J.: *See—*
- Sormani, Luigi Oscar, 3,692,557.
- Walpole, Arthur Leonard: *See—*
- Richardson, Dora Nellie; Walpole, Arthur Leonard; and Paget, George Edward, 3,700,777.
- Walraven, Thomas A.; Maropis, Nicholas; Elmore, William C.; and Devine, Janet, to Aeroprojects Incorporated. Contra-resonant anvil. 3,695,500, 10-3-72, Cl. 228-1.000.
- Walser, Armin: *See—*
- Hellerbach, Joseph; Szenté, Andre; and Walser, Armin, 3,657,223.
- Hellerbach, Joseph; Szenté, Andre; and Walser, Armin, 3,671,518.
- Surmatis, Joseph Donald; and Walser, Armin, 3,661,997.
- Walser, Olaf Ferdinand. Process and device for making fabrics with non-woven pile. 3,691,069, 9-12-72, Cl. 156-72.000.
- Walsh, Alan, to Commonwealth Scientific and Industrial Research Organization. Atomic absorption spectroscopy. 3,644,045, 2-22-72, Cl. 356-85.
- Walsh, David F., to Melland Gear and Instrument Co., Inc. Planetary conversion counter. 3,635,395, 1-18-72, Cl. 235-1.
- Walsh, David I., to Indev, Inc. Flocking. 3,678,894, 7-25-72, Cl. 118-624.000.
- Walsh, David P.; and Walsh, Joanne M. Trailer chassis. 3,703,244, 11-21-72, Cl. 214-517.000.
- Walsh, Donald K. Electrical connector. 3,636,501, 1-18-72, Cl. 339-118.
- Walsh, Edward G., to Bell Telephone Laboratories, Incorporated. Fluidically controlled antiskid vehicle brake system. 3,704,045, 11-28-72, Cl. 303-21.00f.
- Walsh, Edward George, to Bell Telephone Laboratories, Incorporated. Reed switch with improved contact and end cap structure. 3,633,136, 1-4-72, Cl. 335-151.
- Walsh, Edward N.: *See—*
- Price, Glenn R.; and Walsh, Edward N., 3,666,435.
- Toy, Arthur D. F.; and Walsh, Edward N., 3,704,144.
- Walsh, George M.; and Chramiec, Mark A., to Raytheon Company. Waveform regenerator for use with a digital correlator. 3,665,413, 5-23-72, Cl. 340-172.5.
- Walsh, George M., to Raytheon Company. Sea bottom slope measuring apparatus. 3,681,747, 8-1-72, Cl. 340-3.00r.
- Walsh, Henry, Jr., to General Electric Company. Electrical coil assembly. 3,668,588, 6-6-72, Cl. 336-192.000.
- Walsh, James L.: *See—*
- Maley, Gerald A.; and Walsh, James L., 3,656,117.
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- Gallagher, George Arthur; and Walter, Henry Clement, 3,687,777.
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- Poehler, Guenter; Suter, Hubert; Wirth, Friedrich; and Walter, Johann Heinrich, 3,686,229.
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- Zeter, Francois; Bellardy, Roger; Pouligny, Claude; and Walter, Marc, 3,702,529.
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- Barriball, Richard D.; Farris, William T.; Gross, George F.; and Walters, Charles W., 3,635,483.
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- Saraceno, Anthony J.; Walters, Reed H.; Jones, Donald B.; and Wiehle, William E., 3,664,950.
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- Kummer, Charles Karl; Walters, Roger E.; and White, Gary Wayne, 3,689,276.
- Walters, Ronnie G., to Allen-Bradley Company. Servo amplifier. 3,673,512, 6-27-72, Cl. 330-97.000.
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- Walters, Samuel. Camera and binocular chest support frame. 3,661,308, 5-9-72, Cl. 224-5.
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- Walterscheid, Ted B., to ACS Industries, Inc. Connector assembly. 3,656,183, 4-11-72, Cl. 339-17.
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- Bade, Erich; and Thelen, Johannes, 3,633,889.
- Walther, Carl, Sportwaffenfabrik: See—
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- Waltnier, Ronald Keith, to RCA Corporation. High voltage hold-down circuit. 3,649,901, 3-14-72, Cl. 321-2.
- Walton, Annelie Hoyer: See—
- Walton, Richard C., 3,656,713.
- Walton, Carey E., 1/3 to Castille, Leopold A. and 1/3 to Ledet, Stephen J., Jr. Clip suspension device for keys and the like. 3,659,759, 5-2-72, Cl. 224-5.
- Walton, Charles L. Protective shield for lathe. 3,640,321, 2-8-72, Cl. 142-55.
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- Walton, Frank Roosevelt. Combination rotary brush, detergent dispenser and drier. 3,638,264, 2-1-72, Cl. 15-4.
- Walton, Fred D.: See—
- Shamash, Maurice B.; Staley, William W.; Denton, Charles I.; and Walton, Fred D., 3,683,105.
- Walton, George N., to Bridge, David, & Company. Apparatus for the production of sheets of plastics or like materials. 3,694,120, 9-26-72, Cl. 425-145.000.
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- Walton, James F. Apparatus for collecting waste from the surface of a body of water. 3,656,624, 4-18-72, Cl. 210-242.
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- Reed, Robert T., 3,646,498.
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- Walton, Richard R., mesne: See—
- Salisbury, Keith D., 3,651,672.
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- Bergey, John M.; and Walton, Richard S., 3,672,155.
- Bergey, John M.; Le Van, James O.; Walton, Richard S.; and Brethauer, Louis G., 3,676,993.
- Bergey, John M.; Blouch, Eric L.; and Walton, Richard S., 3,701,249.
- Walton, Richard S., to Hamilton Watch Company. Electronically controlled timepiece using low power MOS transistor circuitry. 3,664,118, 5-23-72, Cl. 58-50.00r.
- Walton, Richard S., to Hamilton Watch Company. Solid state timepiece. 3,707,071, 12-26-72, Cl. 58-50.00r.
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- La Via, Anthony Laurence; O'Laughlin, Richard Lawrence; and Walton, Richard Wiegmann, 3,704,138.
- Walton, Roger H., to United States of America, Air Force. Coupler-cargo pallet/container. 3,703,870, 11-28-72, Cl. 105-366.00r.
- Waltrich, Paul Francis, to Pennwalt Corporation. Removal of mercury from effluent streams. 3,704,875, 12-5-72, Cl. 266-15.000.
- Waltronic Company: See—
- Brandeis, Richard, 3,694,615.
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- Walwood, John T.: See—
- Ramsley, Alvin O.; and Walwood, John T., 3,700,397.
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- Kilian, Henry R., 3,697,042.
- Walworth, Vivian K.: See—
- Gerber, Arthur M.; Story, Sybil N.; and Walworth, Vivian K., 3,694,252.
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- Waly, Adnan, to Personal Communications, Inc. Micro-image recording and read-out system. 3,704,068, 11-28-72, Cl. 355-46.000.
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- Walz, Donald T.: See—
- McGusty, Elizabeth R.; Sutton, Blaine M.; and Walz, Donald T., 3,676,554.
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- Walz, Karl: See—
- Pammer, Gottfried; and Walz, Karl, 3,666,206.
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- Walz, Kurt: See—
- Hornig, Hans Werner; and Walz, Kurt, 3,672,826.
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- Fox, Daniel W.; and Wambach, Allen, 3,683,903.
- Wambach, Raimund; von Bonin, Wulf; and Wolz, Hermann, to Farbenfabriken Bayer Aktiengesellschaft. Stabilisation of aqueous formaldehyde solutions. 3,658,912, 4-25-72, Cl. 260-606.
- Wameling, Richard F.: See—
- Gantschnigg, Gottfried K.; and Wameling, Richard F., 3,650,180.
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- Wampler, David M., to Libbey-Owens-Ford Company. Spray coating apparatus. 3,703,880, 11-28-72, Cl. 118-2.000.

- Wamser, Anton: See—
- Samietz, Klaus P.; Wamser, Anton; and Weingartner, Ernst F., 3,665,084.
- Wamser, Christian A.: See—
- Selman, Murray; Wamser, Christian A.; and Wilkalis, John E., 3,681,035.
- Wamsley, Robert Alan; Barnett, John Edward; Rose, Kenneth Ralph; and Jones, Gerald Stephan, to Celanese Coatings Company. High gloss paper coating composition of a latex interpolymer of alkyl acrylate-mono vinyl aromatic-unsaturated carboxylic acid-acrylonitrile. 3,634,298, 1-11-72, Cl. 260-29.6.
- Wanamaker, John L.: See—
- Weber, Kenneth E.; Hoch, Geraldine H.; and Wanamaker, John L., 3,664,808.
- Wandel & Goltermann: See—
- Alker, Dietrich-Ekkehard, 3,663,954.
- Wandell, George C., to Vulcan Iron Works Inc. Percussion hammer. 3,645,342, 2-29-72, Cl. 173-17.
- Wander, A., Dr., S.A.: See—
- Bream, John B.; and Picard, Claude W., 3,634,508.
- Wander, Dr. A., S.A.: See—
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- Wyss, Edmond G., 3,635,962.
- Wandler, Donald, to McGraw-Edison Company. Mounting arrangement for luminaires. 3,685,858, 8-22-72, Cl. 285-27.000.
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- Wandrisco, Joseph M., to United States Steel Corporation. Method and apparatus for determining the operating performance of wheeled vehicles on a track. 3,705,531, 12-12-72, Cl. 73-146.000.
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- Kern, Thomas W.; Barringer, George L.; Wands, William Ross; Leonard, Charles W.; and Goodman, Gerald W., 3,666,049.
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- Macek, Warren M.; and Wang, Chao Chen, 3,697,181.
- Wang, Chien San. Measuring system employing a sensing loop and a reference loop in bucking relationship to provide current-to-voltage conversion. 3,701,014, 10-24-72, Cl. 324-98.000.
- Wang, Chih Chun: See—
- Tietjen, James Joseph; Williams, Brown F.; and Wang, Chih Chun, 3,699,401.
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- Luck, Friedrich, 3,671,153.
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 Wankel, Felix, 3,688,749.
 Wankling, James Leonard: *See—*
 Ellis, Ronald; and Wankling, James Leonard, 3,691,389.
 Wanlass, Bert R.: *See—*
 Velavicius, Alfonsas; and Wanlass, Bert R., 3,645,043.
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 Halinski, Michael J.; and Wanschek, Larry J., 3,662,192.
 Wanskuck Company: *See—*
 Bernier, Robert N.; Blackmer, Dwight; and Paulsen, Paul L., 3,704,838.
 Blackmer, Dwight W.; and Bernier, Robert N., 3,680,809.
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 Waplington, Geld A. P., to Garnet Products Limited. Dial assemblies. 3,696,776, 10-10-72, Cl. 116-115.500.
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 Klundt, Irwin L.; Lenga, Robert; and Warawa, Edward J., 3,657,452.
 Warberg, Henrik S., to Atomic Power Development Associates, Inc. Elastic support grid for nuclear fuel elements. 3,679,547, 7-25-72, Cl. 176-78.000.
 Warburton, Donald L.: *See—*
 Arbesman, Paul H.; James, Stanley D.; and Warburton, Donald L., 3,698,960.
 Warburton, Eric: *See—*
 Tittle, John Noel; Bottomley, Brian Rogers; and Warburton, Eric, 3,660,944.
 Warburton, Richard T., to Mobil Oil Corporation. Egg carton cell structure. 3,687,350, 8-29-72, Cl. 229-2.000.
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 Ward Brothers (Sherburn) Limited: *See—*
 Ward, Wilfred; and Ward, Frank, 3,701,836.
 Ward, Cecil R., to PPG Industries, Inc. Apparatus for separating glass sheets. 3,637,063, 1-25-72, Cl. 198-29.
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 Crowell, Jack R.; Tomashek, James R.; and Ward, Donald H., 3,670,801.
 Ward, Edward J.; and Way, Rodney, to Worcester Valve Company Limited. The. Servo-systems. 3,693,501, 9-26-72, Cl. 91-186.000.
 Ward, Emmett G.: *See—*
 Dickson, Leon L., Jr.; and Ward, Emmett G., 3,696,332.
 Ward, Eric John: *See—*
 Smith, Gordon Victor; and Ward, Eric John, 3,673,371.
 Ward, Ernest. Tube paste squeezer for tooth paste and the like. 3,701,459, 10-31-72, Cl. 222-102.000.
 Ward, Ernest S.: *See—*
 Lester, William C.; Nuccio, Carlo; and Ward, Ernest S., 3,652,444.
 Lester, William Carl; Nuccio, Carlo; and Ward, Ernest S., 3,707,452.
 Ward, Frank: *See—*
 Ward, Wilfred; and Ward, Frank, 3,701,836.
 Ward, Frank Russell: *See—*
 McMillan, Peter William; Partridge, Graham; and Ward, Frank Russell, 3,637,425.
 Ward, Franklin J., to Scott Paper Company. Textured release paper. 3,667,994, 6-6-72, Cl. 117-76.
 Ward, Frederick Edmund: *See—*
 Schut, Robert Norman; and Ward, Frederick Edmund, 3,689,490.
 Ward, Frederick Edmund, to Miles Laboratories, Inc. 6,7 Benzo-2-(4 phenyl-1-piperazinyl) bicyclo [3.3.1] nonan-9-one. 3,699,106, 10-17-72, Cl. 260-268.0tr.
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 West, Curtis C.; Castello, Louis D.; and Ward, Frederick William Allan, 3,658,011.
 Ward, Geoffrey R.: *See—*
 Briskin, Theodore; and Ward, Geoffrey R., 3,640,285.
 Briskin, Theodore S.; and Ward, Geoffrey R., 3,643,668.
 Ward, George T., to International Paper Company. Dual fabric apparatus for paper web formation. 3,645,842, 2-29-72, Cl. 162-303.
 Ward, George W.: *See—*
 Shah, Dipak Co.; Ward, George W.; and Whiteley, Roger L., 3,655,349.
 Ward, Harold Francis, to Thorn Electrical Industries Limited. Alkaline earth halosilicate phosphors. 3,650,974, 3-21-72, Cl. 252-301.4.
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 Ward, Irving A. Fluid control valve. 3,656,503, 4-18-72, Cl. 137-359.
 Ward, Jeanne A.: *See—*
 Gondolfe, James D.; Scalan, Ruth; and Ward, Jeanne A., 3,687,660.
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 Ward, John P.: *See—*
 Molloy, Kenneth H.; Ward, John P.; and Benson, Victor Mark, 3,675,196.
 Ward, John P.; and Judy, William A., to Goodyear Tire & Rubber Company, The. Process for the polymerization of alicyclic monomer masterbatches. 3,652,487, 3-28-72, Cl. 260-33.6.
 Ward, John T.; and Keller, Allen B. Fluid level alarm device for tanks and the like to minimize spills of oil and other environmental pollutants. 3,675,614, 7-11-72, Cl. 116-118.000.
 Ward, John V.: *See—*
 Fernald, Herbert B.; Gall, William; Gwynn, Bernard H.; and Ward, John V., 3,655,809.
 Tucci, Edmond R.; Thayer, Helen I.; and Ward, John V., 3,644,529.
 Ward, John W.; and Clark, Danford E., to Union Oil Company of California. Rejuvenation of damaged zeolite-supported metal catalysts. 3,692,692, 9-19-72, Cl. 252-412.000.
 Ward, John Wesley: *See—*
 Beauchamp, Robert Owens, Jr.; Ward, John Wesley; and Franko, Bernard Vincent, 3,699,230.
 Ward, Laird Gordon Lindsay, to International Nickel Company, Inc., The. Nickel derivatives of salicylic acid esters and a process for preparing the same. 3,651,110, 3-21-72, Cl. 260-439.
 Ward, Martin, Developments Limited: *See—*
 Martin, Frederick R. P., 3,636,343.
 Ward, Maurice M. Grinding machines. 3,680,261, 8-1-72, Cl. 51-95.0lh.
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 Ward, Milton K., to DuraCraft Boats, Inc. Vertically adjustable boat seat. 3,642,320, 2-15-72, Cl. 297-345.
 Ward, Morris V.: *See—*
 Eckerlin, Herbert M.; and Ward, Morris V., 3,643,351.
 Ward, Peter Manners, to Imperial Chemical Industries Limited. Heat sealable film and process for making same. 3,695,918, 10-3-72, Cl. 117-47.00a.
 Ward, Raymond: *See—*
 Brook, David Whiteley; and Ward, Raymond, 3,679,721.
 Brook, David Whiteley; and Ward, Raymond, 3,694,475.
 Ward, Robert C., to Western Electric Company, Incorporated. Kelvin double bridge with zener diode failure circuit. 3,654,550, 4-4-72, Cl. 324-62.
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 Ward, Roderick K.: *See—*
 Helrigel, Robert A.; and Ward, Roderick K., 3,665,847.
 Helrigel, Robert A.; and Ward, Roderick K., 3,687,069.
 Ward, Ronald C.: *See—*
 Briggs, John A.; and Ward, Ronald C., 3,670,100.
 Ward, Russell S.: *See—*
 Welch, Robert E.; Kelly, Raymond E.; and Ward, Russell S., 3,631,830.
 Ward, Truman L.: *See—*
 Berni, Ralph J.; Benerito, Ruth R.; McKelvey, John B.; Ward, Truman L.; and Soignet, Donald M., 3,644,082.
 Ward, V. F., *mesne*: *See—*
 Brewington, Doyle W., 3,697,674.
 Ward, Walter E.: *See—*
 Nash, William; and Ward, Walter E., 3,689,284.
 Ward, Wilfred; and Ward, Frank, to Ward Brothers (Sherburn) Limited. Building structures. 3,701,836, 10-31-72, Cl. 174-48.000.
 Ward, William H., Jr., to Genra and General Monitors, Inc. Peak selection circuit and apparatus utilizing same. 3,678,513, 7-18-72, Cl. 340-414.000.
 Ward, William J., III: *See—*
 Juliano, Peter C.; and Ward, William J., III, 3,653,180.
 Ward, William J., III, to General Electric Company. Facilitated transport liquid membrane. 3,676,220, 7-11-72, Cl. 136-86.000.
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 Wardlaw, Russell; and Cole, Robert Peter, to Cookson Company, The. Rolling door operating mechanism. 3,637,004, 1-25-72, Cl. 160-133.
 Wardly, George A.: *See—*
 Romankiw, Lubomyr T.; and Wardly, George A., 3,662,119.
 Wardly, George A., to International Business Machines Corporation. Electrostatic prism. 3,679,896, 7-25-72, Cl. 250-41.9me.
 Ware Fuse Corporation: *See—*
 Ware, Gordon K., 3,690,501.
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 Ware, James H., to International Minerals & Chemical Corporation. Certain Di and triiodobenzoic acids as growth promotants. 3,632,752, 1-4-72, Cl. 424-177.
 Ware Machine Works, Inc.: *See—*
 Pilch, John S., 3,653,131.
 Ware, Michael: *See—*
 Shaw, Richard Elliott; and Ware, Michael, 3,645,806.
 Ware, Peter G., to Dunlop Holdings Limited. Perforated structures. 3,648,665, 3-14-72, Cl. 122-94.
 Ware, Peter G., to Dunlop Holdings Limited. Burners. 3,681,000, 8-1-72, Cl. 431-247.000.
 Ware, Peter G., to Dunlop Company Limited, The. Fuel supply systems. 3,691,764, 9-19-72, Cl. 60-39.74r.
 Ware, R. Louis. Plant growth apparatus. 3,664,063, 5-23-72, Cl. 47-39.
 Ware, Richard E.: *See—*
 Merges, John C., Jr.; and Ware, Richard E., 3,667,979.
 Ware, Richard E.; and Merges, John C., Jr., to Sun Oil Company of Pennsylvania, *mesne*. Investment casting wax. 3,704,145, 11-28-72, Cl. 106-38.700.
 Wareham, William W.: *See—*
 Koerner, Ernest C.; Trice, Robert T.; and Wareham, William W., 3,699,082.
 Waren, Frank Arthur Oakley: *See—*
 Mason, Frederick Percival; and Waren, Frank Arthur Oakley, 3,631,904.
 Mason, Frederick Percival; and Waren, Frank Arthur Oakley, 3,631,962.
 Mason, Frederick Percival; and Waren, Frank Arthur Oakley, 3,640,247.
 Waren, Frank Arthur Oakley, to Creed & Company. Magnetic powder scavenging arrangement. 3,659,311, 5-2-72, Cl. 15-256.5.
 Waren, Frank Arthur Oakley. Apparatus for the collection of buoyant foreign matter. 3,682,316, 8-8-72, Cl. 210-242.000.
 Warfield, Albert H.: *See—*
 Kallianos, Andrew G.; Warfield, Albert H.; and Simpson, Melvyn I., 3,704,714.
 Warfield, Wayne N.; and Eaton, Russell K., to Stryker Corporation. Power osteotome. 3,678,934, 7-25-72, Cl. 128-317.000.
 Wargat, Edward: *See—*
 Dunne, Owen F.; Hebert, William E.; Souza, Ronald; and Wargat, Edward, 3,696,770.
 Wargo, Stephen J.: *See—*
 Lenz, Robert E.; and Wargo, Stephen J., 3,638,012.
 Wariner, Derek C., to National Steel Construction Co. Water heater housing for travel trailers and method of installing same. 3,704,926, 12-5-72, Cl. 312-242.000.
 Waring, Robert K., Jr.: *See—*
 Barkley, John R.; O'Reilly, James J.; and Waring, Robert K., Jr., 3,701,585.
 Waring, Robert K., Jr., to Du Pont de Nemours, E. I., and Company. Optical line scanner using a coupled ferroelastic-ferroelectric crystal plate. 3,704,937, 12-5-72, Cl. 350-162.0sf.
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 Waring, Roy L., to Cities Service Oil Company. Lubricating grease. 3,663,726, 5-16-72, Cl. 252-28.
 Waring, Wilson Shaw: *See—*
 Leigh, Thomas; Thorp, Jeffrey Meyrick; and Waring, Wilson Shaw, 3,652,646.
 Wark, Donald D., to Challenge Machinery Company, The. Corner cutter machine. 3,656,387, 4-18-72, Cl. 83-374.
 Warlop, Gaston C. Feeding system for wool carding plants and the like. 3,645,305, 2-29-72, Cl. 141-198.
 Warmaco Inc.: *See—*
 Aldrich, William E., 3,705,066.
 Warman, Bloomfield J., to GTE Automatic Electric Laboratories Incorporated. Contact arrangement in coordinate switches. 3,646,303, 2-29-72, Cl. 200-177.
 Warman, Charles Harold, to Warman Equipment (International) Ltd. Construction for fluid tight joints. 3,653,705, 4-4-72, Cl. 292-256.65.
 Warman, Charles Harold, to Warman Equipment (International) Ltd. Froth pump. 3,671,135, 6-20-72, Cl. 415-53.000.
 Warman Equipment (International) Ltd.: *See—*
 Warman, Charles Harold, 3,653,705.
 Warman, Charles Harold, 3,671,135.
 Warmington, Herbert Halliday: *See—*
 Schoeman, Musgrave; and Warmington, Herbert Halliday, 3,666,063.
 Warmuth, Francis J.: *See—*
 Boesch, William J.; Darmara, Fahih N.; and Warmuth, Francis J., 3,707,409.
 Warn, Kermit W.: *See—*
 Scharmann, Garred N.; Warn, Kermit W.; and Mortensen, Donald G., 3,668,730.
 Warnalis, Lawrence J.: *See—*

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Lawrence, Owen Napier; and Warne, Eugene Harold, 3,643,427.
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Armstrong, James B.; Schott, Dan J.; and Warne, Leland C., 3,675,066.
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Brown, Christopher Kingsley; Cea, Carmen Achille; and Warne, Thomas Parkison, Jr., 3,665,574.
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Blake, Charles T., 3,691,879.
Cochran, Burton L., 3,686,729.
Cordes, Edward V., Jr., 3,705,400.
Dragisch, Myron, 3,670,487.
Dragisch, Myron, 3,670,978.
Ebersold, Robert C., 3,643,519.
Fisher, John, 3,665,789.
Gano, John W.; and Schlafly, Paul W., 3,666,125.
Jacob, Harry J., Jr., 3,689,166.
Joyce, Glover C., 3,696,564.
Lutz, Fritz Norman, 3,684,940.
Paepke, Horst, 3,667,254.
Schuman, Ralph H., 3,640,632.
Schuman, Ralph H., 3,648,276.
Selby, Jack H., 3,664,215.
Selby, Jack H., 3,703,112.
Stein, William B., 3,654,681.
Stein, William B., 3,660,877.
Wall, Charles A.; and Lutz, F. Norman, 3,685,271.
Whitehurst, Joe R., 3,657,773.
Whitehurst, Joe R., 3,694,861.
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Everett, Cecil D., 3,698,139.
Hill, Oiva E., 3,690,071.
Mrugala, Theodore A., 3,690,074.
Mrugala, Theodore A.; and Kruck, Henry, 3,696,487.
Payne, Winslow C.; and Trotter, Gerard M., 3,678,631.
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Lojkutz, Bruno V.; Warner, Dale J.; and Schulz, George H., 3,647,227.
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Baer, John S., 3,637,056.
Brendemuehl, Roger C., 3,676,009.
Buisker, Raymond A., 3,674,122.
Kopp, Norman L., 3,656,358.
Obermark, John A., 3,675,747.
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Baer, John S., 3,642,106.
Weatherby, John H., 3,648,810.
- Warner, Ellis R., Jr.: See—
Craig, Sam N.; Warner, Ellis R., Jr.; and Buckman, Wayne T., 3,688,687.
- Warner, Gene: See—
Hatcher, Cecil W.; and Warner, Gene, 3,697,135.
Hatcher, Cecil W.; and Warner, Gene, 3,703,316.
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Schulz, Leo J.; and Warner, George L., 3,638,937.
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Denner, David L.; and Warner, Herbert E., 3,666,121.
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Frankel, Milton B.; Warner, Michael G.; and Witucki, Edward F., 3,642,830.
Pilipovich, Donald; and Warner, Michael G., 3,663,588.
- Warner, Milton Young, to Whirlpool Corporation. Radial unloader valve for thru-slot rotary compressor. 3,676,021, 7-11-72, Cl. 417-299.000.
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Hirshon, Jack M.; and Warner, Philip D., 3,678,346.
- Warner, Richard E. Adjustable trailer hitch. 3,655,221, 4-11-72, Cl. 280-490.
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Ford, Bryce W.; Meyer, Daniel A.; and Warner, Walter C., 3,699,808.
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Schuette, Gunter G.; and Warner, William J., 3,636,936.
- Warner-Lambert Company: See—
Babson, Arthur L., 3,679,661.
Babson, Arthur L., 3,698,561.
Babson, Arthur L.; and Tenney, Susan R., 3,705,149.
Berman, Ediel, 3,660,574.
Bilotti, Anthony G., 3,655,866.
Brown, Richard E.; and Shavel, John, Jr., 3,689,497.
D'Alo, Franco; and Masserini, Arnaldo, 3,632,809.
Ercoli, Alberto; Gardi, Rinaldo; Vitali, Romano; and Falconi, Giovanni, 3,649,620.
Evans, George L.; Kronish, Donald P.; Prevorsek, Metka; Schwartz, Benjamin S.; and Zuriff, Lee S., 3,649,461.
Fox, Charles; and Tassoff, James, 3,689,678.
Fusco, Raffaello; and Tenconeri, Franco, 3,649,678.
Kroc, Robert L.; and Mischler, Terrence W., 3,655,889.
Kronish, Donald P.; and Young, William D., Jr., 3,645,853.
Kronish, Donald P.; and Zuriff, Lee S., 3,699,003.
Mc Namara, Thomas F.; and Malakoff, Meyer, 3,639,632.
Mc Namara, Thomas F.; and Winer, Richard A., 3,691,018.
Meltzer, Robert I.; and Wittekind, Raymond R., 3,671,544.
Morrison, Glenn C.; and Shavel, John, Jr., 3,679,691.
Novack, Robert M., 3,649,628.
Novack, Robert M., 3,649,643.
Novack, Robert M., 3,679,732.
Ringel, Samuel Morris; Roemer, Sidney; Gutt, Ann Lee; and Peterson, John E., 3,651,216.
Satzinger, Gerhard; and Herrmann, Wolfgang, 3,634,489.
Satzinger, Gerhard, 3,634,498.
Satzinger, Gerhard; and Stoss, Peter, 3,637,664.
Satzinger, Gerhard, 3,637,806.
Shavel, John, Jr.; and Bobowski, George, 3,646,109.
Shavel, John, Jr.; and Schwender, Charles F., 3,649,691.
Shih, I-Kao; and Blaser, Eric, 3,655,329.
Sonntag, Arch Christian; Klutchko, Sylvester; and Shavel, John, Jr., 3,649,644.
Strandtmann, Maximilian Von; Cohen, Marvin P.; and Shavel, John, Jr., 3,704,234.
Turner, Paul; Marmion, Vincent James; Sneddon, John Mason; and Craig, David D. H., 3,658,963.
Von Strandtmann, Maximilian; and Klutchko, Sylvester, 3,646,138.
Von Strandtmann, Maximilian; Cohen, Marvin P.; and Shavel, John, Jr., 3,649,626.
Von Strandtmann, Maximilian; Cohen, Marvin P.; and Shavel, John, Jr., 3,649,635.
Von Strandtmann, Maximilian; Klutchko, Sylvester; and Shavel, John, Jr., 3,699,128.
Von Strandtmann, Maximilian; Klutchko, Sylvester; and Shavel, John, Jr., 3,699,129.
Von Strandtmann, Maximilian; Puchalski, Chester; Cohen, Marvin; and Shavel, John, Jr., 3,642,781.

- Wittekind, Raymond R.; and Shavel, John, Jr., 3,666,767.
- Zinnes, Harold; Shavel, John, Jr.; Lindo, Neil A.; and Di Pasquale, Gene, 3,634,415.
- Zinnes, Harold; Shavel, John, Jr.; and Lindo, Neil A., 3,641,032.
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- Warner-Lambert Company, mesne: See—
Herte, Lawrence F.; Kloss, Frank R.; Lane, George C.; and Skinner, James R., 3,632,494.
Lane, George C., 3,635,811.
- Warner-Lambert Pharmaceutical Company: See—
Ercoli, Alberto; Gardi, Rinaldo; and Romano, Casatenovo, 3,646,013.
Ercoli, Alberto; and Gardi, Rinaldo, 3,691,214.
Ercoli, Alberto; and Gardi, Rinaldo, 3,694,471.
Merrill, Edward J., 3,689,528.
Shavel, John, Jr.; and Farber, Sheldon, 3,641,152.
Zinnes, Harold; Lindo, Neil A.; and Shavel, John, Jr., 3,646,020.
Zinnes, Harold; Lindo, Neil A.; and Shavel, John, Jr., 3,646,021.
Zinnes, Harold; and Shavel, John, Jr., 3,692,780.
- Warning, Clair J.: See—
Hudson, Robert M.; and Warning, Clair J., 3,707,408.
- Warnken, Crystal E. Belted diapers. 3,653,381, 4-4-72, Cl. 128-284.
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Grantham, Rodney E.; Malloy, John H.; and Warnock, Frederick E., 3,667,392.
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James, Charles Fitzhugh; Robertson, Ralston Hodges, Jr.; and Warnock, Merville Lee, 3,660,729.
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- Warren Automatic Tool Company: See—
Dower, Ethel J., 3,646,607.
- Warren, Barney, to Cellu-Craft, Inc. Plastic bag with integral pouch and method for making same. 3,680,768, 8-1-72, Cl. 229-56.000.
- Warren, Brian: See—
Pride, Emanuel; and Warren, Brian, 3,677,707.
- Warren, Charles W.; and Izdebski, Richard J., to American Cyanamid Company. Optical sensing system usable in ambient light. 3,650,400, 3-21-72, Cl. 209-111.5.
- Warren, Clinton C., to Cornell Manufacturing Company. Aeration pump. 3,663,117, 5-16-72, Cl. 415-116.
- Warren, Constance A.: See—
Faw, Frederick L.; Johnson, Ralph E.; Warren, Constance A.; and Glenn, Dwight W., 3,678,233.
- Warren, David: See—
Austin, Christopher Frederic; Crowther, Philip Simpson; Warren, David; and Howitt, David, 3,651,666.
Austin, Christopher Frederic; Crowther, Philip Simpson; Warren, David; and Howitt, David, 3,657,904.
- Warren, Donald E.: See—
Raznov, Jerry L.; and Warren, Donald E., 3,656,451.
- Warren, Edward L. Educational device employing polarized plastic material. 3,674,906, 7-4-72, Cl. 35-48.00r.
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Johnson, Paul E.; Haugh, Clarence G.; Warren, George F.; and Kratky, Bernard A., 3,648,409.
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- Warren, James A.: See—
Mello, William R.; and Warren, James A., 3,678,572.
- Warren, James R., to Rohr Corporation. Record keeping system and method employing plural forms and co-operating reusable adhesive strip. 3,661,407, 5-9-72, Cl. 283-55.
- Warren, James S., to Honeywell Inc. Burner safeguard control apparatus. 3,705,783, 12-12-72, Cl. 431-46.000.
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- Warren, John M., to General Dynamics Corporation. Encapsulating composition for electronic circuit boards and process for applying same. 3,652,333, 3-28-72, Cl. 117-218.
- Warren, John P., to Schlumberger Technology Corporation. Methods and apparatus for investigating earth formations the spontaneous potential. 3,691,456, 9-12-72, Cl. 324-10.000.
- Warren, Larry G.: See—
Crabb, Elmer R.; and Warren, Larry G., 3,635,317.
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Case, Raymond D.; Maloney, Thomas O.; and Warren, Larry H., 3,689,143.
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- Warren, Maurice A., to Vec/Track Research & Development Corporation. Radio direction finder. 3,683,384, 8-8-72, Cl. 343-113.0pt.
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Phelps, Rex V., 3,640,237.
Phelps, Rex V., 3,645,415.
Phelps, Rex V., 3,657,895.
Phelps, Rex V., 3,698,198.
Potter, Jack D.; and Reams, Bernard W., 3,671,692.
- Warren, Ross B., to Central Screw Company. Fastener assembly with locking capabilities. 3,648,749, 3-14-72, Cl. 151-33.
- Warren, Samuel C., to United States of America, Navy. Asynchronous pulse width filter. 3,676,699, 7-11-72, Cl. 307-234.000.
- Warren Steel Specialties Corporation: See—
Shape, Robert C., 3,698,736.
- Warren, Steven A. Training system and tachistoscope for use therein. 3,631,609, 1-4-72, Cl. 35-9.
- Warren, William H. Multiple station combination vacuum-pressure system. 3,685,539, 8-22-72, Cl. 137-565.000.
- Warrick, Frank G.: See—
Davis, Lewis M.; and Warrick, Frank G., 3,707,027.
Overway, Roy E.; and Warrick, Frank G., 3,701,275.
- Warrick, Frank G., to Sealed Power Corporation. Method of forming a spacer-expander. 3,633,260, 1-11-72, Cl. 29-156.6.
- Warriner, Louis T.: See—
Ingram, Clarence E.; and Warriner, Louis T., 3,686,852.
- Warrington, Bert Eck; and Cash, Michael J., to Honeywell Inc. Recorder for recording on heat-sensitive material. 3,699,588, 10-17-72, Cl. 346-139.00c.
- Warsager, Rubin. Machine for surface decorating of articles. 3,634,174, 1-11-72, Cl. 156-540.
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- Warsager, Rubin. Pivotal mandrel. 3,675,913, 7-11-72, Cl. 269-51.000.
- Warsaw, Arthur J. System for measuring tractive power with controlled application of load. 3,680,368, 8-1-72, Cl. 73-117.000.
- Warshaw, Abe: See—
Negra, John S.; and Warshaw, Abe, 3,701,822.
Tourtellotte, John F.; Negra, John S.; Warshaw, Abe; and Villiers-Fisher, John F., 3,699,683.
Villiers-Fisher, John F.; and Warshaw, Abe, 3,632,306.
- Warshaw, Saul; Eisenberg, Arnold J.; and Loveland, Winton, to Loveshaw Corporation. Single motor drive of forming winder collet. 3,683,246, 8-8-72, Cl. 318-6.000.
- Warshaw, Stanley W. Expansion joint covering. 3,694,976, 10-3-72, Cl. 52-58.000.
- Warszawsky, Jay: See—
Fisher, Ervin; and Warszawsky, Jay, 3,653,188.
- Warszawsky, Jerome. Alt azimuth swivel construction. 3,679,236, 7-25-72, Cl. 285-39.000.
- Warszawski, Bernard; and Vandenberghe, Henri, to Societe Generale de Constructions Electriques et Mecaniques (ALSTHOM). Fuel cell and electrolyte supply system. 3,690,954, 9-12-72, Cl. 136-86.000.
- Warszawska Wytownia Samochodowych Wzrzedzen Naprawczych Warszawa: See—
Jedrzejewski, Piotr, 3,688,449.
- Wartenberg, Erwin W. Method of producing toughened glass. 3,653,866, 4-4-72, Cl. 65-116.
- Warthen, John L.: See—
Parthasarathy, R.; Scherzer, Julius; and Warthen, John L., 3,652,459.
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- Warthen, William P.: See—
Dominick, Joseph W.; and Warthen, William P., 3,632,383.
- Warthen, William P., to Deering Milliken Research Corporation. Bobbin adaptor. 3,655,141, 4-11-72, Cl. 242-46.4.
- Wartian, George, to Wartian Lock Company. Latch. 3,633,390, 1-11-72, Cl. 70-240.
- Wartian Lock Company: See—
Wartian, George, 3,633,390.
- Wartmann, Hans J.: See—
Stevens, Henry C.; and Wartmann, Hans J., 3,652,631.
- Wartner, Donald L.: See—
Dalziel, Warren L.; Nilson, Jay B.; and Wartner, Donald L., 3,678,481.
- Warwick, Charles Herbert, to Fibreboard Corporation, mesne. Vacuum conveyor beam. 3,642,119, 2-15-72, Cl. 198-184.

Warwick, David W. Device and method for sharpening rotary mower blades. 3,665,658, 5-30-72, Cl. 51-250.

Warwick Electronics Inc.: See—
Bara, Edward S., 3,671,045.

Brand, John R.; and Smith, Ernest A., 3,665,088.

Eischen, Albert L., 3,638,879.

Galanti, Frank, 3,693,052.

Padgett, William J.; and Wilson, Donald A., 3,701,103.

Schmidt, Hans, 3,639,747.

Vail, Thomas W.; and Ryan, Allen L., 3,677,555.

Vazzano, Philip, 3,650,539.

Warwick, Joseph W.: See—
Horsey, Eleanor F.; Warwick, Joseph W.; and Rauhut, Horst W., 3,657,027.

Warwick, Leonard A.: See—
Gordon, Arthur L.; and Warwick, Leonard A., 3,645,757.

Warwick, O. H., Company: See—
Acker, John N.; and Ulbrich, Carl H., 3,689,050.

Wasaburo, Ohta; and Nobouri, Murayama, to Ricoh Co., Ltd. Electronic graphic recording system. 3,704,468, 11-28-72, Cl. 346-74.0cr.

Wasag-Chemie Aktiengesellschaft: See—
Kraemer, Stefan; Seidl, Alois; and Seger, Michael, 3,652,310.

Wasag-Chemie GmbH: See—
Kraemer, Stefan; and Seidl, Alois, 3,707,385.

Nolte, Helmut; Lindemann, Paul; and Hahn, Walter, 3,702,792.

Wasatch Chemical Company: See—
Hansen, Charles N.; Young, Morris D.; and Granger, James E., 3,679,593.

Waschk, Fritz; Muller, Jurgen; Krieger, Heinrich; and Heindrich, Gunter. Apparatus for wet treatment of photographic film or the like. 3,640,205, 2-8-72, Cl. 95-95.

Waschulewski, Hans-Georg; Baumann, Hans; and Lambert, Hans-Reinhard, to Losenhausen Maschinenbau AG. Implement with vibrating tool. 3,636,834, 1-25-72, Cl. 94-49.

Wascon Systems, Inc.: See—
Craig, Sam N., 3,653,720.

Craig, Sam N.; Warner, Ellis R., Jr.; and Buckman, Wayne T., 3,688,687.

Wasecheck, Paul H., to Continental Oil Company. Catalyst system for use in nitric acid oxidation of olefins. 3,692,809, 9-19-72, Cl. 260-413.000.

Waseleski, Joseph W., Jr.; and Charnley, Ralph E., to Texas Instruments, Incorporated. Electric motor protector sensor. 3,646,494, 2-29-72, Cl. 338-25.

Wasem, Hans: See—
Forster, Willy; Henard, Armand; Kehr, Fritz; Keller, Urs Martin; and Wasem, Hans, 3,671,514.

Wasemann, William A., to Westinghouse Electric Corporation. Laundry agent dispenser for agitator washers. 3,695,065, 10-3-72, Cl. 68-17.00a.

Wasen, Emerson J.: See—
Grguric, Robert M.; and Wasen, Emerson J., 3,687,161.

Washburn, Jack, to Westinghouse Brake and Signal Company, Limited. Brake control valve apparatus. 3,706,480, 12-19-72, Cl. 303-36.000.

Washburn, Brice P. Snowmobile. 3,637,035, 1-25-72, Cl. 180-5.

Washburn, Frank R. Off-shore fire and pollution control system. 3,673,804, 7-4-72, Cl. 61-1.00f.

Washburn, John A.: See—
Rothweiler, Richard C.; Sohns, Carl B.; and Washburn, John A., 3,666,900.

Washburn, Malcolm E., to Norton Company. Process for producing silicon oxynitride. 3,639,101, 2-1-72, Cl. 23-203.

Washburn, Malcolm E., to Norton Company. Control of shrinkage and growth of silicon oxynitride bodies. 3,679,444, 7-25-72, Cl. 106-55.000.

Washburn, Paul C.: See—
Stout, Daniel W.; and McGinnes, Henry M., 3,693,718.

Washchynsky, Bohdan: See—
James, Cyril P.; and Washchynsky, Bohdan, 3,691,956.

Washecheck, Paul H.: See—
Johnson, Morris A.; Washecheck, Paul H.; Yang, Kang; and Starks, Charles M., 3,650,918.

Portwood, Owen, Jr.; Starks, Charles M.; and Washecheck, Paul H., 3,641,163.

Washecheck, Paul H., to Continental Oil Company. Olefinic hydrocarbon oxidation process. 3,658,896, 4-25-72, Cl. 260-533.

Washecheck, Paul H., to Continental Oil Company. Preparation of alpha-chloroaliphatic acids. 3,661,986, 5-9-72, Cl. 260-530.

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Washecheck, Paul H., to Continental Oil Company. Process for peaking the oxidation products of 1-olefins. 3,696,134, 10-3-72, Cl. 260-413.000.

Washecheck, Paul H.; and Starks, Charles M., to Continental Oil Company. Production of carboxylic acids. 3,704,319, 11-28-72, Cl. 260-540.000.

Washimi, Koichi: See—

Nishikawa, Hideo; Kawaguchi, Akihiro; Washimi, Koichi; and Kambayashi, Masaaki, 3,631,920.

Washimi, Koichi; Kanbayashi, Masaaki; Kanai, Toshio; and Fujimori, Akihiro, to Kureha Kagaku Kogyo Kabushiki Kaisha and Chiyoda Kako Kensetsu Kabushiki Kaisha. Process and apparatus for the thermal cracking of heavy hydrocarbon oils. 3,674,679, 7-4-72, Cl. 208-48.000.

Washington Gas Light Co.: See—
Edwards, Monte R., 3,661,493.

Washington, Le Baron H.: See—
Guterman, Robert P.; and Washington, Le Baron H., 3,701,565.

Guterman, Robert P.; and Washington, Le Baron H., 3,702,656.

Washington, Richard S., to International Business Machines Corporation. Printer control system. 3,651,487, 3-21-72, Cl. 340-172.5.

Washington Suburban Sanitary Commission: See—
Lee, James H.; and Bruening, David J., 3,641,806.

Washio, Shigeaki: See—
Akazawa, Hakuichi; Washio, Shigeaki; Kaji, Keiji; and Fujita, Shisao, 3,645,677.

Akazawa, Hakuichi; and Washio, Shigeaki, 3,652,204.

Washio, Shigeaki; and Araki, Shunji, to Taki Kasei Co., Ltd. Organic aluminum compounds. 3,652,623, 3-28-72, Cl. 260-448.

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Kvalheim, Andrew M.; and Wassem, Howard M., 3,671,369.

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Herzhoff, Peter; Gref, Hans; Behr, Rolf; Maus, Fritz; Schweicher, Wolfgang; Wasser, Willi; Friedsam, Josef; and Browatzki, Kurt, 3,638,604.

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Herzhoff, Peter; Platz, Stephan; Gref, Hans; Schwenger, Willi; Maus, Fritz; Schweicher, Wolfgang; Koepke, Gunther; Wasser, Willi; and Browatzki, Kurt, 3,690,917.

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Shiobara, Masaji; and Watanabe, Genji, 3,669,424.

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Kohno, Shigeharu; Komaki, Tatsuo; and Watanabe, Hideaki, 3,702,867.

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Leonard, John E.; and Watanabe, Hideo, 3,681,136.

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Yokotsuka, Tamotsu; Aonuma, Tatsuo; Mogi, Koya; Fukushima, Danji; Yasuda, Atsushi; Watanabe, Hiroharu; Tsukada, Naoshi; and Arai, Akira, 3,647,484.

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Watanabe, Hiroshi: See—
Okuyama, Toshiaki; and Watanabe, Hiroshi, 3,660,739.

Tutui, Mitukuni; and Watanabe, Hiroshi, 3,683,881.

Watanabe, Hiroyuki: See—
Nagasawa, Masahiro; and Watanabe, Hiroyuki, 3,688,160.

Watanabe, Hisashi: See—
Okamoto, Atutoshi; Ando, Noriyoshi; Toyama, Koichi; Sumiyoshi, Masaharu; Nakao, Hisaji; and Watanabe, Hisashi, 3,635,531.

Watanabe, Ichiro: See—
Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; Watanabe, Ichiro; Murayama, Keisuke; and Morimura, Syoji, 3,684,765.

Matsui, Katsuaki; Kurumada, Tomoyuki; Watanabe, Ichiro; Ohta, Noriyuki; Murayama, Keisuke; and Morimura, Syoji, 3,705,126.

Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kurumada, Tomoyuki; Watanabe, Ichiro; and Ohta, Noriyuki, 3,640,928.

Murayama, Keisuke; Morimura, Syoji; Toda, Toshimasa; Akagi, Saburo; Kurumada, Tomoyuki; and Watanabe, Ichiro, 3,645,965.

Murayama, Keisuke; Toda, Toshimasa; Yamao, Eiko; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; and Watanabe, Ichiro, 3,663,558.

Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; and Watanabe, Ichiro, 3,692,778.

Watanabe, Itaru: See—
Honda, Makoto; Tanaka, Kyugo; and Watanabe, Itaru, 3,703,548.

Watanabe, Jun: See—
Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, 3,655,449.

Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, to Matsushita Electric Industrial Co., Ltd. Dry cells. 3,647,552, 3-7-72, Cl. 136-131.

Watanabe, Junkichi: See—
Kuga, Mutsuo; Mashimo, Takeshi; Watanabe, Junkichi; Arai, Teruo; and Yano, Yoshihiko, 3,651,200.

Watanabe, Kaoru: See—
Kubotera, Haruo; Nakaoka, Kazuhide; Watanabe, Kaoru; and Tanaka, Teruhisa, 3,657,022.

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Munakata, Hideaki; Watanabe, Kazuo; Osako, Akitada; and Urakabe, Rintaro, 3,660,460.

Watanabe, Kazutaka, to Yokogawa Electric Works, Ltd. Pulse transmitting and receiving systems. 3,671,671, 6-20-72, Cl. 178-68.000.

Watanabe, Kikuo: See—
Takashashi, Yoshinori; Sasaki, Rokuro; Watanabe, Kikuo; and Takizawa, Masao, 3,685,618.

Watanabe, Akinori; Takahashi, Yoshinori; Yahiro, Seinosuke; and Watanabe, Kikuo, 3,707,206.

- Watanabe, Kinnosuke: *See*—
Tomiyasu, Hiroshi; Inagaki, Tsuguya; Kajiura, Hiroshi; and Watanabe, Kinnosuke, 3,640,135.
- Watanabe, Kinya: *See*—
Osaka, Yonosuke; Watanabe, Kinya; Tamura, Kohji; Sonoyama, Heikitsu; Matsuda, Satoru; Haruhana, Masao; and Matoba, Hideo, 3,689,370.
- Watanabe, Koichi, to New Cosmos Electric Co., Ltd. Air conditioning device of automatic ventilation type. 3,635,282, 1-18-72, Cl. 165-11.
- Watanabe, Koichiro: *See*—
Nomura, Katsuhiko; Watanabe, Koichiro; and Urano, Fumio, 3,650,191.
- Uno, Naoyuki; and Watanabe, Koichiro, 3,657,982.
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Okamoto, Miyoshi; Ashida, Keiichi; and Watanabe, Koji, 3,692,423.
- Okamoto, Miyoshi; Mizuguchi, Shunji; and Watanabe, Koji, 3,705,226.
- Watanabe, Kotaro: *See*—
Ono, Hiroshi; Watanabe, Kotaro; and Suzuki, Hajime, 3,649,594.
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- Watanabe, Makoto; and Kitayama, Naoyuki, to Kabushiki Kaisha Komatsu Seisakusho (Komatsu Ltd.). Hydraulic pump or motor device plungers. 3,633,467, 1-11-72, Cl. 92-172.
- Watanabe, Mamoru: *See*—
Mochizuki, Toyoyu; and Watanabe, Mamoru, 3,686,865.
- Watanabe, Manoru: *See*—
Mochizuki, Toyoyu; and Watanabe, Manoru, 3,653,210.
- Watanabe, Masaharu: *See*—
Nakamura, Masakatsu; Yonezawa, Toshio; Kato, Taketoshi; Watanabe, Masaharu; and Akatsuka, Minoru, 3,694,707.
- Watanabe, Masahide: *See*—
Katsuyama, Shigeo; Asami, Atsumi; Watanabe, Masahide; Sato, Tsutomu; Norimatsu, Toshiaki; and Nakajima, Eizo, 3,672,819.
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- Watanabe, Masaru: *See*—
Hori, Shin; Inoue, Tomiyoshi; Yamamoto, Shozo; Tataru, Kazuo; Kitagawa, Mashiho; Watanabe, Masaru; Okada, Yukihiko; and Negishi, Naoki, 3,686,832.
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- Watanabe, Naozo: *See*—
Dosen, Masasi; Kaneko, Kunio; and Watanabe, Naozo, 3,689,330.
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- Watanabe, Osamu: *See*—
Yamaguchi, Yoshio; and Watanabe, Osamu, 3,646,806.
- Watanabe, Sadakazu: *See*—
Sakai, Kunio; Katsuragi, Sumio; and Watanabe, Sadakazu, 3,668,637.
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Sugano, Seiroku; Arai, Tomio; Hayami, Seinoshin; Watanabe, Sadao; Fujishiro, Shigeru; and Ono, Takeo, 3,689,372.
- Watanabe, Satoshi: *See*—
Sasaki, Kiyoshi; and Watanabe, Satoshi, 3,632,324.
- Sasaki, Kiyoshi; and Watanabe, Satoshi, 3,660,710.
- Watanabe, Shigaru: *See*—
Shiba, Keisuke; Hinata, Masanao; Yoshida, Makoto; Imai, Shinichi; Sato, Akira; and Watanabe, Shigaru, 3,682,640.
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- Watanabe, Shigeo; Sogi, Toshiyuki; and Mukai, Tsuneo, to Bridgestone Tire Company Limited. Pneumatic radial tire. 3,678,982, 7-25-72, Cl. 152-361.000.
- Watanabe, Shigeru: *See*—
Ishihara, Yasushi; and Watanabe, Shigeru, 3,657,896.
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Marumo, Hideo; Ninomiya, Morio; and Watanabe, Shinro, 3,671,504.
- Watanabe, Shozo; Ooka, Takayuki; Takemura, Susumu; and Arakawa, Motohiko, to Nippon Steel Corporation. Method for making ferritic stainless steel sheet having excellent workability. 3,653,981, 4-4-72, Cl. 148-12.4.
- Watanabe, Shunso F., to Kelsey-Hayes Company. Valve structure. 3,645,499, 2-29-72, Cl. 251-303.
- Watanabe, Tadashi: *See*—
Goto, Masahiro; Noto, Tetsuo; Kato, Nitsuya; Kimura, Morio; and Watanabe, Tadashi, 3,684,752.
- Kimura, Morio; Watanabe, Tadashi; Murata, Koichiro; and Iwasawa, Naotumi, 3,634,351.
- Kozu, Haruo; Kimura, Morio; Watanabe, Tadashi; Naotumi, Hiratsuka; and Yoshida, Michio, 3,655,596.
- Watanabe, Tadayoshi: *See*—
Shinoda, Kiyonori; Watanabe, Tadayoshi; and Mizusawa, Shigeru, 3,697,443.
- Watanabe, Taigi: *See*—
Sano, Keizo; Watanabe, Taigi; Tanaka, Michihiko; Ichikawa, Yoshimitsu; Kato, Koichi; and Matsuura, Hirokichi, 3,682,846.
- Watanabe, Taiichiro: *See*—
Kishida, Yukichi; Soma, Nobuo; Nakazawa, Junichi; Sato, Yoshio; Matsuda, Hidebumi; Terada, Atsusukey; Watanabe, Taiichiro; Sugimura, Yukio; Miyamura, Toshihide; Kaneko, Masanao; and Watatani, Mitsuo, 3,704,294.
- Watanabe, Takao: *See*—
Majima, Kanji; Izumi, Kaichi; and Watanabe, Takao, 3,681,975.
- Watanabe, Takashi: *See*—
Hara, Ei; and Watanabe, Takashi, 3,635,617.
- Watanabe, Takashi, to Kabushiki Kaisha Towa Denki. Rotary cutter. 3,673,907, 7-4-72, Cl. 83-674.000.
- Watanabe, Takashi, to Kabushiki Kaisha Kawai Gakki Susakusho. Electric contact member. 3,675,320, 7-11-72, Cl. 29-630.00d.
- Watanabe, Takeshi: *See*—
Komazaki, Yujiro; and Watanabe, Takeshi, 3,662,155.
- Watanabe, Takeshi; and Saito, Yuzi, to Nippon Electric Company, Limited. Color television picture tube. 3,700,949, 10-24-72, Cl. 313-85.000.
- Watanabe, Tamotsu, to Nippon Kogei Kogyo Co., Ltd. Apparatus for generating a high voltage. 3,653,593, 4-4-72, Cl. 239-15.
- Watanabe, Tamotsu. Method and apparatus for impregnating moving paper with moisture. 3,656,455, 4-18-72, Cl. 118-630.
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- Watanabe, Tamotsu, to Nippon Kogei Kogyo Co., Ltd. Method and system for removing particles of floating dusts produced upon an excavation of a tunnel. 3,695,001, 10-3-72, Cl. 55-2.000.
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Yamamoto, Hideo; and Watanabe, Teruji, 3,652,988.
- Watanabe, Tetsuo: *See*—
Abe, Jinnosuke; Watanabe, Tetsuo; Miyauchi, Kango; Yamaguchi, Tsutomu; Nito, Toshiharu; and Muroya, Noriyuki, 3,649,455.
- Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; and Nishiie, Kazuyoshi, 3,658,792.
- Abe, Jinnosuke; Watanabe, Tetsuo; Take, Teruo; Fujimoto, Kentaro; Fujii, Tadashi; Takemura, Kazunari; Nishiie, Kazuyoshi; Sato, Sakae; Koide, Tadashi; and Hotta, Yasue, 3,668,200.
- Watanabe, Tetsuo; Oikawa, Akira; and Masayoshi, Kuroda, to Bridgestone Tire Company Limited. Bias ply tire having a breaker with glass cords. 3,696,854, 10-10-72, Cl. 152-361.000.
- Watanabe, Toshio; Tsukamoto, Goro; Hayashi, Kimiaki; Sato, Masanori; and Iwasawa, Yoshio, to Tanabe Seiyaku Co., Ltd. 6,7-Diacyloxy-tetrahydroisoquinoline compounds. 3,647,799, 3-7-72, Cl. 260-286.
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Utsumi, Isamu; Watanabe, Toshiro; Kohno, Keiichi; Daira, Isamu; and Otsubo, Akira, 3,644,385.
- Watanabe, Yoshihachi; and Ogata, Masaru, to Shionogi & Co., Ltd. Method of controlling rice blast and sheath blight disease with 3,4-dichloro-6-hydroxyiminomethylpyridazine-1-oxide. 3,670,082, 6-13-72, Cl. 424-250.
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- Watanabe, Yoshimi, to Sony Corporation. Magnetic recording and/or reproducing device with tape engagement means which moves in a concentric path with the head. 3,647,984, 3-7-72, Cl. 179-100.2.
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- Watanabe, Yoshio: *See*—

- Naito, Nobuatsu; Nakajima, Kasuhiko; and Watanabe, Yoshio, 3,638,874.
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Kamakura, Satoru; and Watanabe, Yukio, 3,660,979.
- Watanabe, Yutaka: *See*—
Ogata, Masatzugu; Sato, Mikio; Watanabe, Yutaka; and Suzuki, Hiroshi, 3,637,572.
- Tsukui, Michio; Watanabe, Yutaka; Suzuki, Hiroshi; Kitamura, Masahiro; and Mori, Yoshisuke, 3,658,750.
- Watanabe, Kiyoshi: *See*—
Kobayashi, Akito; Watanabe, Kiyoshi; Narita, Yoshihiro; Shiota, Eiji; and Iwaoka, Kenji, 3,646,102.
- Watando, Kousaku: *See*—
Kimura, Kenji; Watando, Kousaku; and Kadota, Osamu, 3,665,848.
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Fujii, Tatsuo; and Watano, Yutaka, 3,639,881.
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- Watase, Hideo; Kobayashi, Akira; Hirakawa, Tadashi; and Sugiyama, Atsushi, to Teijin Limited. Process for preparing fibers of the polyester series having different dyeability. 3,634,580, 1-11-72, Cl. 264-342.
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- Watatani, Takako: *See*—
Kishida, Yukichi; Soma, Nobuo; Nakazawa, Junichi; Sato, Yoshio; Matsuda, Hidebumi; Terada, Atsusukey; Watanabe, Taiichiro; Sugimura, Yukio; Miyamura, Toshihide; Kaneko, Masanao; and Watatani, Mitsuo, 3,704,294.
- Watch Stones Co. Ltd.: *See*—
Steffen, Jurg; and Hofer, Arnold, 3,656,988.
- Watch-Tel 24, Inc.: *See*—
Cushman, Edward J.; and Clark, Jasper, 3,647,971.
- Watchorn, Noel; and Broome, Arthur William James, to Imperial Chemical Industries Limited. Protein supplements for ruminant feeding stuffs. 3,642,488, 2-15-72, Cl. 99-2.
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Baker, Alan Stuart; and Water, Julian Alfred, 3,661,835.
- Water Saver Faucet Co.: *See*—
Kersten, Samuel D., Jr.; Sautter, Alton F.; and Simon, John M., 3,692,046.
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- Water Treatment Corporation: *See*—
Burns, William C., 3,642,616.
- Burns, William C.; Robinson, Donald; and Newberry, Sidney H., 3,692,670.
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Leavenworth, Frederick R., 3,641,633.
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- Waterman, Donald H., to Valley Engineering, Inc. Load transferring hitch for a vehicle. 3,652,106, 3-28-72, Cl. 280-405.
- Waterman, Herrick: *See*—
Fuller, Ralph A.; and Snodgrass, Earl D., 3,640,190.
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- Waterman, John E., to Entwistle Company, The. Roller adjustment for imprinting device. 3,705,548, 12-12-72, Cl. 101-269.000.
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Gallant, Reginald R.; Swain, Roger S.; and Waterman, Neil S., 3,701,945.
- Waterman, Neil S., to Atlantic Design & Development Corporation. Sliding top internal pourer bottle cap. 3,659,758, 5-2-72, Cl. 222-561.
- Watermann, Willy: *See*—
Kuhn, Max; Bell, Gunter; and Watermann, Willy, 3,702,061.
- Waterous Company: *See*—
Berglund, Harold A.; and Thomas, David F., 3,697,197.
- Waters Associates, Inc.: *See*—
Waters, James L.; Abrahams, Louis; and Hutchins, Burleigh M., Jr., 3,674,373.
- Waters, Charles A.: *See*—
Shannon, Robert A.; and Waters, Charles A., 3,690,636.
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Sedivy, George F.; and Sutterer, William F., 3,632,211.
- Waters, Derek Brian; and Jessop, Anthony, to International Standard Electric Corporation. Error detection and correction system. 3,646,517, 2-29-72, Cl. 340-146.1.
- Waters, Graham Thomas, to Imperial Chemical Industries Limited. Textured core yarns. 3,691,750, 9-19-72, Cl. 57-144.000.
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Lang, Ronald A., 3,698,685.
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- Waters, Robert S.; and Spohr, Albert S., to Sunbeam Corporation. Skin treating appliance. 3,699,952, 10-24-72, Cl. 128-24.200.
- Waters, Roy F.; Powell, Howard E.; and Ballard, Lee N., to United States of America, Interior. Recovery of metals and phosphate from waste phosphate sludge. 3,653,875, 4-4-72, Cl. 75-21.
- Waters, Van, & Rogers; division of UWR United Corporation: *See*—
Shelton, Waite M., 3,631,726.
- Waters, Warren P.; and Lovelace, Byron K., to Texas Instruments, Incorporated. Planar Schottky barrier. 3,651,384, 3-21-72, Cl. 317-234.
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Freche, John C.; Waters, William J.; and Ashbrook, Richard L., 3,702,791.
- Waterwort, Thomas Hugill: *See*—
Gell, Philip Anthony Maunsell; and Waterwort, Thomas Hugill, 3,683,093.
- Waterworth, Peter: *See*—
Bass, John C.; and Waterworth, Peter, 3,678,472.
- Waterworth, Thomas H.: *See*—
Steitz, William R.; Bradley, Robert O.; and Waterworth, Thomas H., 3,634,588.
- Wates Limited: *See*—
Wakefield, Norman; Alexander, Stuart John; Morrish, James Francis Gerrards Cross; Beck, William; Groves, Raymond Sturgis; and Harvey, Michael J., 3,678,644.
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- Watkins, Robert A.; and Schuma, Richard F., to Raytheon Company. Optical scanning device. 3,632,871, 1-4-72, Cl. 178-7.6.
- Watkins, Billy K. Power stopper. 3,659,455, 5-2-72, Cl. 73-141.
- Watkins, Bruce J., to Regan Forge and Engineering Company. Flow line diverter apparatus. 3,664,376, 5-23-72, Cl. 137-625.68.
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- Watkins, Charles H., to Universal Oil Products Company. Inhibiting LPG production in a hydrocracking process. 3,640,819, 2-8-72, Cl. 208-111.
- Watkins, Charles H., to Universal Oil Products Company. Lubricating oil base stock production by hydrocracking two separate feedstocks. 3,649,518, 3-14-72, Cl. 208-59.
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- Watkins, Fred E.; and Tausch, Gilbert H., to Camco, Incorporated. Well safety valve. 3,672,397, 6-27-72, Cl. 137-529.000.
- Watkins, Harley E.: See—
Hamm, Jeffrey E.; and Watkins, Harley E., 3,657,737.
- Watkins, Howard G.: See—
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Barrow, Marvin A., 3,668,628.
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- Watkins, John A., to United-Carr Incorporated. Electromagnetic indicator having offset rotor magnet. 3,636,557, 1-18-72, Cl. 340-378.
- Watkins, Louie W., Jr., to Data Packaging Corporation. Securing device for a flotation assembly. 3,705,432, 12-12-72, Cl. 9-8.00r.
- Watkins, Lucius D., to Outboard Marine Corporation. Means and method of eliminating and controlling marine fouling. 3,661,506, 5-9-72, Cl. 21-58.
- Watkins, Phillip L.; and Cox, Raymond W., to United States of America, Navy. Shift register clocking at high speeds where parallel operation is needed. 3,700,931, 10-24-72, Cl. 328-63.000.
- Watkins, Robert V., to International Business Machines Corporation. Synchronous frequency shift data transmission system in which opposite binary characterizations are transmitted as half cycles of a first carrier signal of a first carrier signal of frequency equal to that of a keying signal and as full cycles of a second carrier signal of frequency twice that of the keying signal. 3,665,103, 5-23-72, Cl. 178-66.00r.
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Gralenski, Nicholas M., 3,691,417.
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- Watkinson, Leonard James; and Moore, Brian Joseph, to Howson, W. H., Limited. Presensitized printing plate coated with colorant. 3,669,668, 6-13-72, Cl. 96-86.00p.
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Desluge, George B., 3,684,859.
Wrob, Ronald M., 3,632,978.
- Watmough, Thomas; and Schey, John A., to IIT Research Institute. Hot forming of titanium and titanium alloys. 3,635,068, 1-18-72, Cl. 72-342.
- Watrous, Donald L.; and Cote, Paul T., to General Electric Company. Sequencing static electronic flashing circuits for photoflash lamp array. 3,676,045, 7-11-72, Cl. 431-95.000.
- Watson, Alvin N., to Johanson Technology, Inc. Capacitor with malleable means for providing a hermetic seal and strain relief. 3,633,079, 1-4-72, Cl. 317-242.
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- Watson, Cecil C. Building panel and structure constructed therewith. 3,665,664, 5-30-72, Cl. 52-211.
- Watson, Charles Andrew: See—
Clippingdale, John Walter; and Watson, Charles Andrew, 3,662,060.
Clippingdale, John Walter; and Watson, Charles Andrew, 3,678,155.
- Watson Chemical Corporation: See—
Rattenbury, Kenneth H.; and Larrison, Millard S. (said Rattenbury assor. to), 3,692,879.
- Watson, Christopher Alan, to Standard Telephones and Cables Limited. Magnetic recording device with printed circuit coils formed with the circuit sheet folded in concertina fashion. 3,634,632, 1-11-72, Cl. 179-100.2.
- Watson, Christopher Alan; and Maxfield, John Raymond, to International Standard Electric Corporation. Character generation system having bold font capability. 3,678,497, 7-18-72, Cl. 340-324.00a.
- Watson, Christopher John Hamilton, to United Kingdom Atomic Energy Authority. Plasma confinement apparatus. 3,668,068, 6-6-72, Cl. 176-3.000.
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Abbott, John A.; and Watson, Clyde D., 3,704,716.
Oldenkamp, Henry A.; and Watson, Clyde D., 3,648,382.
- Watson, David D.: See—
Brown, Lloyd H.; and Watson, David D., 3,681,286.
Brown, Lloyd H.; and Watson, David D., 3,689,299.
Brown, Lloyd H.; and Watson, David D., 3,702,771.
- Watson, David Harris: See—
Tilley, Colin; Watson, David Harris; and Campbell, Michael, 3,644,568.
- Watson, David Stuckey: See—
Scarborough, Paul Edward, Jr.; and Watson, David Stuckey, 3,651,508.
- Watson, Donald R.: See—
Haskell, Theodore H.; and Watson, Donald R., 3,703,507.
- Watson, Donald W.: See—
Hutner, Mark A.; Polit, Neil A.; Watson, Donald W.; and Artelt, Herbert C., Jr., 3,700,324.
McGuire, John V.; and Watson, Donald W., 3,647,602.
McGuire, John V.; Watson, Donald W.; Enskat, Albert G.; and Artelt, Herbert C., Jr., 3,661,453.
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- Watson, Donald W., to Xerox Corporation. Stacker with a labeling machine. 3,654,040, 4-4-72, Cl. 156-568.
- Watson, Earnest B., 50% to Bowers, Raymond S., Jr. Counterbalancing system for oil field pump jacks. 3,646,833, 3-7-72, Cl. 74-589.
- Watson, Edgar J.: See—
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- Watson, Edward J.; and LaBar, Dale H., to American Home Products Corporation. Process for the preparation of 2-substituted-1,3-cyclopentanediones. 3,671,589, 6-20-72, Cl. 260-586.00r.
- Watson, Edward John, Jr., to Morton-Norwich Products, Inc., mesne. 3,4-Dihydrobenzo (B) (1,7) naphthyridin-1(2H)-ones. 3,700,673, 10-24-72, Cl. 260-287.00r.
- Watson, Edward P.: See—
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- Watson, Emmett S., to Laboratory Data Control, Inc. Differential filter fluorimeter. 3,666,941, 5-30-72, Cl. 250-43.50r.
- Watson, Frank G. Order transfer assembly for preventing holdups. 3,669,038, 6-13-72, Cl. 109-12.
- Watson, Frank George; and Sugden, David Burnet, to Robbins, James S., and Associates, Inc. Shield tunneling method. 3,640,077, 2-8-72, Cl. 61-42.
- Watson, Fred A., to Soltronics, Inc., mesne. Vehicular remote power supply system. 3,681,611, 8-1-72, Cl. 307-10.00r.
- Watson, Frederick D.: See—
Cole, Ernest A.; Mayse, Weldon D.; and Watson, Frederick D., 3,701,723.
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Mayse, Weldon D.; and Watson, Frederick D., 3,672,127.
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- Watson, Frederick D.; and Winslow, Joseph D., Jr., to Petrolite Corporation. Electric treatment of conductive dispersions. 3,649,500, 3-14-72, Cl. 204-188.
- Watson, Frederick D.; and Winslow, Joseph D., Jr., to Petrolite Corporation. Treater for resolving dispersions. 3,672,511, 6-27-72, Cl. 210-519.000.
- Watson, Gary Q. Protection of anchor rods against corrosion. 3,675,381, 7-11-72, Cl. 52-166.000.
- Watson, Geoffrey W.: See—
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- Watson, George A., to North American Rockwell Corporation. Method and apparatus for addressing a memory at selectively controlled rates. 3,639,913, 2-1-72, Cl. 340-172.5.
- Watson, George A., to Celanese Corporation. Method for production of crosslapped structures. 3,660,867, 5-9-72, Cl. 19-163.
- Watson, George A., to Celanese Corporation. Method of making a semi-continuous filament combination yarn. 3,664,115, 5-23-72, Cl. 57-156.
- Watson, George A., to Celanese Corporation. Production of batting. 3,681,796, 8-8-72, Cl. 5-337.000.
- Watson, George A., to North American Rockwell Corporation. Circuit for sampling high speed data. 3,699,459, 10-17-72, Cl. 328-151.000.
- Watson, Gerard L.; and Latshaw, Don, to Marvue, Inc. Veneer inspection system. 3,694,658, 9-26-72, Cl. 250-219.0df.
- Watson, Jack B.: See—
Filippi, Ernest A.; Watson, Jack B.; and Hughes, Larry E., 3,695,246.
- Watson, James H. P. Composite superconductive body comprising a matrix of porous glass and a super conductive material. 3,650,991, 3-21-72, Cl. 252-500.
- Watson, James K.: See—
Hopkins, Wayne J.; and Watson, James K., 3,635,404.
- Watson, James K., to United States of America, Navy. Stabilizing fin assembly. 3,697,019, 10-10-72, Cl. 244-3.290.
- Watson, James Power, to RCA Corporation. Multi-electrode transducer element. 3,648,279, 3-7-72, Cl. 340-365.
- Watson, James W., to Swift & Company. Manufacture of potassium metaphosphate. 3,650,684, 3-21-72, Cl. 23-107.

- Watson, James W.; and Payne, Billy D., to SCM Corporation. Method for catalyzing polyurea coatings. 3,702,777, 11-14-72, Cl. 117-2.000.
- Watson, John, to Monarch Western Equipment Ltd. Automobile conveyor. 3,693,392, 9-26-72, Cl. 104-172.00b.
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- Watson, John Thaxter: See—
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- Watson, Kenneth, to Westland Aircraft Limited. Torque transducers. 3,672,213, 6-27-72, Cl. 73-136.00a.
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- Watson, Lloyd M.; and Broering, Leo H., to National Distillers and Chemical Corporation. Process for reducing equipment fouling the manufacture of butadiene homopolymer. 3,649,606, 3-14-72, Cl. 260-82.1.
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- Watson, Louis L.: See—
Iorns, Martin E.; and Watson, Louis L., 3,652,755.
- Watson Manufacturing Company, Inc.: See—
Moore, George E., 3,702,101.
Moore, George E., 3,702,209.
- Watson, Marshall T.: See—
Jackson, Winston J., Jr.; and Watson, Marshall T., 3,670,489.
- Watson, Milton R.: See—
Escoffier, Raymond P.; and Watson, Milton R., 3,639,740.
- Watson, Paul R.: See—
Vine, Raymond W.; Watson, Paul R.; and Luoma, Warren L., 3,635,682.
- Watson, Percy K.: See—
Till, Henry R.; and Watson, Percy K., 3,666,472.
- Watson, Ralph C.: See—
Wilson, Robert Earl, 3,638,068.
- Watson, Richard D.: See—
Neesse, Philip C.; Watson, Richard D.; and Zickel, Thomas A., 3,690,737.
- Watson, Richard J.: See—
Sink, James A., Jr.; and Watson, Richard J., 3,671,170.
- Watson, Robert: See—
Jones, Patrick Ludlow Fleming; and Watson, Robert, 3,663,112.
- Watson, Robert E.: See—
Toldo, Anthony P.; and Watson, Robert E., 3,665,552.
- Watson, Robert G.: See—
Gilson, Ian T.; Troscinski, Edwin S.; Curtis, Thomas C.; and Watson, Robert G., 3,687,610.
- Watson, Robert H.: See—
Sams, Gerald R.; and Watson, Robert H., 3,648,073.
- Watson, Robert L. Clamping means for pipes and fittings. 3,666,159, 5-30-72, Cl. 228-49.
- Watson, Roger W.; Brannen, William T., Jr.; and Hillstrom, Warren W., to Standard Oil Company. Additives for fuels and lubricants. 3,652,616, 3-28-72, Cl. 260-429.
- Watson, Roy: See—
Cousins, Morison S.; Klawson, Rennold L.; and Watson, Roy, 3,700,146.
- Watson, Roy H. A.: See—
Johnson, Robert Allen; Richards, Erwin H.; and Watson, Roy H. A., 3,649,081.
- Watson, Searcy A. Two-part hinge with integral pin. 3,696,463, 10-10-72, Cl. 16-178.000.
- Watson, Thomas A.: See—
Garman, James A.; Eastman, Richard D.; and Watson, Thomas A., 3,641,662.
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- Watson, Thomas A. W. K. Rotary releaser. 3,688,597, 9-5-72, Cl. 74-424.500.
- Watson, Walter E., to Link Industries, Inc. Angular mounting adapter. 3,687,497, 8-29-72, Cl. 287-20.300.
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- Watson, William Alexander; and Mack, Malcolm, to Singer Company, The. Handwheel assembly for sewing machines. 3,635,099, 1-18-72, Cl. 74-230.7.
- Watson, William E.; and Aubrecht, Donald A., to Allied Chemical Corporation. Processing of sulfur dioxide. 3,653,833, 4-4-72, Cl. 23-226.
- Watson, William H.: See—
Young, Chauncey; and Watson, William H., 3,680,764.
Young, Chauncey; and Watson, William H., 3,692,226.
- Watson, William R.: See—
Kocher, Robert C.; Moore, Franklin K.; Samelson, Harold; and Watson, William R., 3,678,410.
- Watt, Andrew Douglas: See—
McRae, David Milwain; and Watt, Andrew Douglas, 3,695,558.
- Watt, John A.; and Riordan, Hugh E., to Kelsey-Hayes Company. Sensor with constant air gap. 3,649,859, 3-14-72, Cl. 310-67.
- Watt, Kenneth E. Fluorescent lampholder. 3,685,003, 8-15-72, Cl. 339-56.00r.
- Watt, William Doyle, Jr.: See—
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- Watt, William Doyle, Jr., to Keller Brass Company. Non-vibrating pull for doors, drawers, and the like. 3,634,907, 1-18-72, Cl. 16-123.
- Watten, Laurence Ernest, to Plessey Handel und Investments A.G. Touch wire displays. 3,668,660, 6-6-72, Cl. 340-365.000.
- Wattenburg, Willard Harvey. Tennis stroke training device. 3,693,973, 9-26-72, Cl. 273-73.00r.
- Watter, Doris: See—
Watter, Michael, 3,699,690.
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- Watterlohn, Roy H.: See—
Badalich, Frank C.; and Watterlohn, Roy H., 3,675,994.
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Cuvelier, Georges; and Wattiez, Daniel, 3,685,953.
- Wattiez, Gerard Charles Lucien, to Compagnie Industrielle de Precontrainte et d'Equipment des Constructions (C.I.P.E.C.). Expansion joint for road works. 3,677,145, 7-18-72, Cl. 49-18.000.
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Alkema, Henk J.; Medema, Dirk; and Wattimena, Freddy, 3,634,539.
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- Watton, John F.: See—
Ryntz, Edward F., Jr.; Janowak, John F.; and Watton, John F., 3,670,558.
- Watts, Carlos R. Vehicle stabilizer. 3,655,216, 4-11-72, Cl. 280-150.
- Watts, Chester B., Jr., to Scaniell Laboratories, Inc. Crab angle sensing system. 3,683,281, 8-8-72, Cl. 325-312.000.
- Watts, Chester B., Jr. Slotted cable glide slope antenna. 3,699,582, 10-17-72, Cl. 343-737.000.
- Watts, Claude H., to Precision Metalsmiths, Inc. Metal casting processes with vacuum and pressure. 3,705,615, 12-12-72, Cl. 164-62.000.
- Watts, Cleal T. Airconditioning in conjunction with internal combustion engine. 3,648,480, 3-14-72, Cl. 62-268.
- Watts, Frank M.: See—
Frank, Peter M.; and Watts, Frank M., 3,668,830.
- Watts, Geoffrey P., to United States of America, Atomic Energy Commission. Baseline compensating integrator. 3,641,444, 2-8-72, Cl. 328-127.
- Watts, George T.; and Yeager, Robert W., to Goodyear Tire & Rubber Company, The. Bias-belted pneumatic tire. 3,675,703, 7-11-72, Cl. 152-361.000.
- Watts, Hargus, to Curtiss-Wright Corporation. Heat exchanger supporting means. 3,701,381, 10-31-72, Cl. 165-82.000.
- Watts, Hubert J.: See—
Blubaugh, Robert L.; Ruckle, Robert A.; and Watts, Hubert J., 3,704,522.
- Watts, James B.: See—
Perrott, Charles H.; and Watts, James B., 3,633,627.
- Watts, James Harry, to Du Pont de Nemours, E. I., and Company. Shipping case with access opening. 3,666,167, 5-30-72, Cl. 229-37.
- Watts, James P. Method and apparatus for waste disposal. 3,675,428, 7-11-72, Cl. 61-35.000.
- Watts, John M. J.: See—
Keig, George A.; Smith, James C.; and Watts, John M. J., 3,655,415.
- Watts, John P. Beater mechanism for agricultural row crop harvester. 3,667,202, 6-6-72, Cl. 56-330.000.
- Watts, Lennox: See—
Langieri, Michael, Jr.; and Watts, Lennox, 3,706,876.
- Watts, Leonard. Moisture proofing process. 3,646,720, 3-7-72, Cl. 52-744.
- Watts, Leonard, to Technicon Instruments Corporation. Method of continuously casting tube. 3,680,624, 8-1-72, Cl. 164-85.000.
- Watts, Lewis William; and Moss, Philip H., to Jefferson Chemical Company, Inc. Preparation of halogenated aromatic compounds. 3,699,177, 10-17-72, Cl. 260-649.00d.
- Watts, Oran Alton, III: See—
Nelson, Robert E.; Sanders, Robert K.; and Watts, Oran Alton, III, 3,636,332.
Nelson, Robert E.; Sanders, Robert K.; and Watts, Oran Alton, III, 3,636,335.
- Watts, Paul J., to Tronac, Incorporated. Temperature control system with heater-cooler. 3,680,630, 8-1-72, Cl. 165-30.000.
- Watts, Peter J. Bite detectors for use with fishing lines. 3,702,513, 11-14-72, Cl. 43-17.000.
- Watts, Raymond K.; and Chapman, Walter Harry, to El Paso Natural Gas Company. Photo inspection pod assembly for pipelines. 3,667,359, 6-6-72, Cl. 95-11.

Watts, Raymond L.: See—
Palme, Karl; and Watts, Raymond L., 3,682,279.

Watts, Raymond W. Prefabricated panel of shingles. 3,640,044, 2-8-72, Cl. 52-543.

Watts Regulator Company: See—
Tine, Sebastian David, 3,636,968.

Watts, Richard James: See—
Davies, Stuart Duncan; McCarthy, Roy Fred John; and Watts, Richard James, 3,664,764.

Watts, Richard M., to Reynolds Metals Company. Drain trough. 3,636,830, 1-25-72, Cl. 94-33.

Watts, Richard M., to Reynolds Metals Company. Lawn edging device. 3,676,952, 7-18-72, Cl. 47-33.000.

Watts, Robert Z.; and Weiss, Robert L., to International Business Machines Corporation. Signal analysis. 3,696,341, 10-3-72, Cl. 340-172.500.

Watts, Ronald E.: See—
Anderson, George de Wenter; and Watts, Ronald E., 3,689,270.

Watts, Wilfred Thomas: See—
Morley, Frederick William Walton; and Watts, Wilfred Thomas, 3,671,145.

Watts, Wilson J., to Ford Motor Company. Releasable strap encircling member. 3,646,644, 3-7-72, Cl. 24-114.5.

Watts, Woodrow H.; and Bartlett, George A. Liquid dispensing apparatus and method. 3,695,314, 10-3-72, Cl. 141-59.000.

Watwood, Robert P.; and Moore, James A., to Union Carbide Corporation. Seed-tape and card-spool-and-row-marker assembly. 3,643,795, 2-22-72, Cl. 206-45.14.

Watz, Martin C., to Anheuser-Busch, Incorporated. Apparatus and process for measuring the amount of air in gaseous mixtures of carbon dioxide and air. 3,695,845, 10-3-72, Cl. 23-232.00r.

Waud, Cornelius Byron; and Gruca, Ned J., to Illinois Tool Works Inc. Combination screw. 3,661,046, 5-9-72, Cl. 85-46.

Waud, Cornelius Byron, to Illinois Tool Works Inc. Threaded fastener with stabilizing threads. 3,682,507, 8-8-72, Cl. 287-189.36f.

Waugh, Clayton Thomas: See—
Rowley, Edward Kenneth; and Waugh, Clayton Thomas, 3,640,790.

Waugh, John D., to United States of America, Army. Method of acquiring a moving target. 3,646,264, 2-29-72, Cl. 178-6.8.

Waugh, Richard A., to General Electric Company. Additive dispensing arrangement. 3,699,785, 10-24-72, Cl. 68-17.00a.

Waukesha Bearings Corporation: See—
Farr, Emory W., 3,696,317.

Gardner, Willis W.; and Rafferty, Richard L., 3,631,834.

Koons, Harold O.; Pautz, Donald W.; and Gardner, Willis W., 3,653,350.

Waukesha Cutting Tools, Inc.: See—
Schiller, Adam A., 3,635,574.

Schiller, Adam A., 3,644,050.

Wausau Iron Works: See—
Snyder, Roderick C., 3,659,363.

Wausau Metals Corporation: See—
Ringle, John, III, 3,650,070.

Wauters, Ronald P.: See—
Cassanelli, Robert R.; Wauters, Ronald P.; Wirchansky, Anastasia C.; and Wyss, Clement R., 3,702,254.

W.A.V.E. Corporation: See—
Johnson, Robert Karl, 3,659,300.

Wave Energy Systems, Inc.: See—
Boucher, Raymond Marcel Gut, 3,672,823.

Waveline, Inc., mesne: See—
Jacques, David E., 3,641,873.

Wavre, Andre: See—
Rubner, Tibor; Wavre, Andre; and Bednarek, John H., 3,652,933.

Wavre, Andre; and Santis, Dean, to Westinghouse Electric Corporation. Signal sequencing system. 3,654,607, 4-4-72, Cl. 340-168.

Wavre, Andre, to Westinghouse Electric Corporation. Pulse sequencing system. 3,654,608, 4-4-72, Cl. 340-168.

Wax, Ludwig A.: See—
Lister, Fred; and Wax, Ludwig A., 3,639,298.

Waxlax, Chester E.: See—
Goodrich, John J.; and Waxlax, Chester E., 3,687,356.

Waxlax, Chester E., to Horix Manufacturing Company. Bottle filling device. 3,698,452, 10-17-72, Cl. 141-286.000.

Waxler, Burton S.: See—
Woodruff, George M.; Schoonmaker, Donald; Daniels, David; and Waxler, Burton S., 3,691,718.

Waxman, Ronald: See—
Ho, Irving T.; Maley, Gerald A.; and Waxman, Ronald, 3,662,351.

Way, Anthony Paul: See—
Woodward, Anthony Ian; Purdie, Angus John Challis; and Way, Anthony Paul, 3,676,189.

Way, David G., to Tapeler Corporation. Power operated apparatus for delivering predetermined lengths of an adhesive tape to an article. 3,649,413, 3-14-72, Cl. 156-518.

Way, Donald L.: See—

Iskiyan, James L.; Waddell, James M.; and Way, Donald L., 3,699,526.

Way, Rodney: See—
Ward, Edward J.; and Way, Rodney, 3,693,501.

Waybright, George Cleveland, to GTE Sylvania Incorporated. Vertical sweep multivibrator having false trigger protection. 3,681,712, 8-1-72, Cl. 331-145.000.

Wayfield, David John. Fluid diverting housings and auxiliary devices. 3,692,242, 9-19-72, Cl. 239-265.190.

Wayland, Paul O.: See—
Cherry, Sidney J.; Wayland, Paul O.; and Bereza, Albert, 3,657,502.

Cherry, Sidney J.; Bereza, Albert; and Wayland, Paul O., 3,670,129.

Wayman, Cecil John, to General Electric Company Limited, The. Read-out circuits for electrical position-encoders. 3,675,235, 7-4-72, Cl. 340-347.00p.

Wayman, Robert W.; and Wiemer, Howard C., to Borg-Warner Corporation. Hydraulic transmission. 3,635,023, 1-18-72, Cl. 60-53.

Waymouth, John F., to Sylvania Electric Products, Inc. Xenon flash lamp with sodium starting band and method of making same. 3,651,365, 3-21-72, Cl. 313-198.

Waynco, Inc.: See—
Harkenrider, Robert J.; and Moe, John L., 3,675,046.

Harkenrider, Robert J.; and Moe, John L., 3,700,933.

Moe, John L.; and Russell, Charles H., 3,636,379.

Wayne, Alex, to Delavan Manufacturing Company. Strainer. 3,667,616, 6-6-72, Cl. 210-451.

Wayne, Alex, to Delavan Manufacturing Company. Nozzle. 3,672,578, 6-27-72, Cl. 239-590.000.

Wayne, Alex, to Delavan Manufacturing Company. Spray nozzle. 3,684,194, 8-15-72, Cl. 239-493.000.

Wayne Electronic Products Company: See—
Knox, Marion D., 3,638,190.

Knox, Marion D., 3,668,474.

Wayne, Harry A.: See—
Savit, Joseph; Guzik, Rudolph P.; Wayne, Harry A.; Saklikar, Arvind R.; and Van Eck, Jack M., 3,669,073.

Wayne Manufacturing Company: See—
Groe, Ernest F., 3,685,557.

Larsen, Gregory J., 3,634,903.

Larsen, Gregory J., 3,634,904.

Larsen, Gregory J., 3,636,585.

Mortensen, Donald G., 3,649,982.

Scharmann, Garred N.; Warn, Kermit W.; and Mortensen, Donald G., 3,668,730.

Woodworth, Rodney L., 3,636,580.

Woodworth, Rodney L., 3,649,981.

Wayne, Richard Steven: See—
Levy, Stephen David; and Wayne, Richard Steven, 3,705,895.

Wayne, Ronald G., to Centaur Mini Computer Devices Inc. Electrically operated plural reel chance device. 3,684,290, 8-15-72, Cl. 273-143.00c.

Wayne, Theodore J.: See—
Budris, Allan R.; McGowan, Frank J.; Evans, Lewis M.; Wayne, Theodore J.; Lithen, Eric E.; and Darcy, Charles B., 3,646,901.

Waysand, Georges: See—
Deutscher, Guy; and Waysand, Georges, 3,663,902.

Wayson, Andrew J., to Merriman, Inc. Traveler with means for limiting friction and tilting. 3,664,113, 5-23-72, Cl. 57-125.

Wayson, Andrew J.; and DeStefano, Richard T., to Merriman, Inc. Means for supplying a plurality of spinning rings with fluid lubricant. 3,669,219, 6-13-72, Cl. 184-7.00a.

Wayson, Andrew J.; and O'Connell, John T., to Merriman, Inc. Method of making a porous metal spinning ring. 3,676,917, 7-18-72, Cl. 29-420.500.

Wayson, Andrew J.; and O'Connell, John T., to Merriman, Inc. Continuous method of forming two-part travelers. 3,703,759, 11-28-72, Cl. 29-417.000.

Waywell, David R.; and West, Charles T., to Standard Oil Company. Isomerization of dihydronaphthalenes. 3,699,180, 10-17-72, Cl. 260-668.00f.

Waz, Edward M.: See—
Huboi, Robert W.; Waz, Edward M.; and Seckel, Thomas G., 3,644,664.

Wazumi, Seiichi, to Minolta Camera Co., Ltd. Camera flash indicating system. 3,668,985, 6-13-72, Cl. 95-10.

Weagant, William D., to Sigman Industries, Inc. Cable splice cover. 3,641,253, 2-8-72, Cl. 174-93.

Weage, Kenneth A., to Evans Products Company. Gondola bulkhead. 3,680,492, 8-1-72, Cl. 105-376.000.

Weagle, James A., to Krueger Metal Products, Inc. Folding table leg. 3,695,567, 10-3-72, Cl. 248-188.600.

Weakly, Marlin Earle, to Deere & Company. Combine clean grain elevator. 3,643,826, 2-22-72, Cl. 214-519.

Wean Industries, Inc.: See—
Bandy, Kenneth L., 3,645,046.

Gerretz, Josef; Hagedorn, Willi; and Kemmerling, Karl-Heinz, 3,659,446.

Kamena, Fred; and Sgambati, Anthony P., 3,688,543.

Ledebur, Harry C., 3,668,916.

Miller, John S., 3,689,829.

Schmitt, Paul; Hien, Manfred; and Kemmerling, Karl-Heinz, 3,688,962.

Wean United, Inc.: See—
Amend, William P., 3,702,557.

Greenberger, Joseph Irwin, 3,702,912.

Shumaker, Charles Storer, 3,702,554.

Weaner, Edward. Eyelash applicator. 3,670,742, 6-20-72, Cl. 132-88.700.

Wear, George H.: See—
Moore, Earnest; and Wear, George H., 3,644,589.

Wear, Robert L., to Minnesota Mining and Manufacturing Company. Copolymers of phenylindan dicarboxylic acid and an aromatic dihydroxy compound. 3,657,185, 4-18-72, Cl. 260-47.

Wear, Robert L., to Minnesota Mining and Manufacturing Company. Ultraviolet light inhibitors. 3,666,713, 5-30-72, Cl. 260-45.80a.

Weather Control Shutters, Inc.: See—
Sassano, John H., 3,667,161.

Sassano, John H., 3,670,797.

Weather-Rite Inc.: See—
Weatherston, Richard N., 3,677,335.

Weatherby, Eugene J.: See—
Kane, Gerald J.; and Weatherby, Eugene J., 3,658,480.

Weatherby, John H.: See—
Baer, John S.; and Weatherby, John H., 3,685,622.

Weatherby, John H., to Warner Electric Brake & Clutch Company, mesne. Helical spring clutch. 3,648,810, 3-14-72, Cl. 192-26.

Weatherell, James W., to Clair Mfg., Co., Inc. Automatic buff pressure setting. 3,665,647, 5-30-72, Cl. 51-45.

Weatherford Oil Tool Company, Inc.: See—
Hall, John A., Sr., 3,643,739.

Weatherhead Company, The: See—
Brunelle, William; and Cartwright, James W., 3,707,032.

Budich, Tadeusz; and Patel, Hiralal V., 3,656,689.

Jeromson, James R., Jr.; and Kennelly, Robert W., 3,649,799.

Keady, Frederick D., 3,698,771.

Kennelly, Robert W., 3,688,071.

Mundt, James E.; and Powell, Milan, 3,669,407.

Mundt, James E., 3,698,745.

Patel, Hiralal V., 3,635,498.

Scanidi, Adam M., 3,685,860.

Silagy, Richard J., 3,667,810.

Wellman, Ellis M., 3,637,963.

Witt, Ludwig, 3,688,072.

Weatherman, John F.; Walker, Gary J.; and Conley, Larry R., to Micro-Technology. Apparatus for welding a conductor through cold flowable insulation. 3,705,970, 12-12-72, Cl. 219-86.000.

Weatherman, Nile Ray: See—
Reese, Richard T.; and Weatherman, Nile Ray, 3,695,287.

Weatherred, Preston A., Jr. Product function root extractor. 3,634,672, 1-11-72, Cl. 235-193.5.

Weathers, Paul. Security alarm system. 3,636,485, 1-18-72, Cl. 335-205.

Weathers, Robert E. Thermo cold-pak container. 3,703,816, 11-28-72, Cl. 62-457.000.

Weathershields Limited: See—
Butler, James, 3,666,318.

Perks, Joseph, 3,683,993.

Weatherston, Richard N., to Weather-Rite Inc. Staged heating and cooling system. 3,677,335, 7-18-72, Cl. 165-12.000.

Weatherston, Roger C.; and Duryea, George R., to Cornell Aeronautical Laboratory, Inc. Two-stage compressor having interengaging rotary members. 3,667,874, 6-6-72, Cl. 418-9.000.

Weaver, Chester H.; and Hofferberger, Charles C., III. Small boat carrier. 3,663,040, 5-16-72, Cl. 280-414.00r.

Weaver, Cletus. Pipe cap. 3,669,153, 6-13-72, Cl. 138-89.

Weaver, David R.; Emery, Anthony G.; and Spearing, Michael Henry, to BP Chemicals Limited. Twin beam radiation analyser using radiation choppers. 3,659,111, 4-25-72, Cl. 250-220.

Weaver, Earle R., to General Electric Company. Feedwater heater and strainer arrangement for multiple-effect ting film desalination plant. 3,697,383, 10-10-72, Cl. 202-174.000.

Weaver, Edward A., to Owens-Illinois, Inc. Ferrimagnetic glass-ceramics. 3,694,360, 9-26-72, Cl. 252-62.590.

Weaver, Elmer A. Process for flavoring foods. 3,669,684, 6-13-72, Cl. 99-100.000.

Weaver, Frank C., to Stewart-Warner Corporation. Diaphragm pressure switch with integral stop means for diaphragm sealing. 3,673,369, 6-27-72, Cl. 200-83.00b.

Weaver, Galen K.; Shaffer, Howard A.; and Coughlin, Stephen A., to Babcock & Wilcox Company, The. Brazeable terminal body. 3,676,575, 7-11-72, Cl. 174-94.00r.

Weaver, Harry R.: See—
Zeffer, Arthur A.; and Weaver, Harry R., 3,642,291.

Weaver, Harry Zane, to RCA Corporation. Magnetic transducer fabrication technique. 3,706,132, 12-19-72, Cl. 29-603.000.

Weaver, James C.: See—
Gray, Theodore F., Jr.; Weaver, James C.; and Combs, Robert L., 3,639,424.

Weaver, John: See—
Maynard, David Payne; and Weaver, John, 3,683,762.

Weaver, John L.; and Smoot, Edward H., to Schlegel Manufacturing Company, The. Channel held weather seal. 3,656,260, 4-18-72, Cl. 49-489.

Weaver, John M.: See—
Viccario, John P.; and Weaver, John M., 3,663,371.

Weaver, Leonard Wheelock, to Bird & Son, Inc. Plastic gutter expansion joint construction. 3,670,505, 6-20-72, Cl. 61-14.000.

Weaver, Marlin P.: See—
Smoker, Benjamin K.; Weaver, Richard L.; and Weaver, Marlin P., 3,679,042.

Weaver, Max A.; Straley, James M.; and Coates, Clarence A., Jr., to Eastman Kodak Company. Disperse mono azo dyes containing an acylamidoterahydroquinoline group. 3,635,941, 1-18-72, Cl. 260-155.

Weaver, Max A.; and Pridgen, Herman S., to Eastman Kodak Company. Monoazo compounds containing a 3-acylamidoaniline coupling component. 3,639,384, 2-1-72, Cl. 260-152.

Weaver, Max A.; and Pridgen, Herman S., to Eastman Kodak Company. Heterocyclic monoazo compounds from N,N-diaralkyl anilines and polyester textile materials dyed therewith. 3,639,385, 2-1-72, Cl. 260-158.

Weaver, Max A.; Pridgen, Herman S.; and Coates, Clarence A., Jr., to Eastman Kodak Company. Mono azo compounds containing an aroyl-amino-N-alkoxycarbonyl benzylaniline coupling component. 3,640,995, 2-8-72, Cl. 260-207.1.

Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Thiadiazolylazo compounds. 3,657,187, 4-18-72, Cl. 260-158.

Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Thiadiazolyl azo compounds and textile materials dyed therewith. 3,657,215, 4-18-72, Cl. 260-158.

Weaver, Max A.; Pridgen, Herman S.; and Coates, Clarence A., Jr., to Eastman Kodak Company. Azo compounds from alkyl α -anilinoates. 3,660,374, 5-2-72, Cl. 260-207.

Weaver, Max A.; Straley, James M.; and Moore, William H., to Eastman Kodak Company. 1,3,4-Thiadiazolylazo-3-cyclohexylamino acylanilide dyes. 3,673,169, 6-27-72, Cl. 260-158.000.

Weaver, Max A.; and Giles, Ralph R., to Eastman Kodak Company. Anthraquinone compounds containing a triazolylthio group. 3,689,501, 9-5-72, Cl. 260-308.00r.

Weaver, Max A.; and Straley, James M. Azo compounds containing an arylsulfonyl phenyl diazo component. 3,692,769, 9-19-72, Cl. 260-207.100.

Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Thiadiazolyl-monoazo-tetrahydroquinoline dyes. 3,699,092, 10-17-72, Cl. 260-155.000.

Weaver, Merle L.; and Hautala, Earl, to United States of America, Agriculture. Preparation of fried potato products. 3,669,685, 6-13-72, Cl. 99-103.000.

Weaver, Paul J., to Automatic Control Systems, Inc. Follower mechanism responsive to abrupt changes in cam slope in cam-controlled machines. 3,683,726, 8-15-72, Cl. 82-14.00r.

Weaver, Paul J., to Automatic Control Systems, Inc. Machine control utilizing a plurality of control templates and tracer mechanisms. 3,690,200, 9-12-72, Cl. 82-14.00a.

Weaver, Paul J., to Automatic Control Systems, Inc. Tool offset means for tracer mechanisms. 3,697,040, 10-10-72, Cl. 251-3.000.

Weaver, Preston R., to UMC Electronics Company. Accelerometer. 3,643,513, 2-22-72, Cl. 73-517.

Weaver, Preston R., to UMC Electronics Company. Fluid pressure monitoring system. 3,698,249, 10-17-72, Cl. 73-398.00r.

Weaver, Richard L.: See—
Smoker, Benjamin K.; Weaver, Richard L.; and Weaver, Marlin P., 3,679,042.

Weaver, Richard L.; and Smoker, Benjamin K. (said Smoker assessor, to said), 3,679,168.

Weaver, Richard L.; and Smoker, Benjamin K., said Smoker assessor, to said Weaver, Richard L. Clamping device. 3,679,168, 7-25-72, Cl. 249-196.000.

Weaver, Robert: See—
Woods, Gerald F.; and Weaver, Robert, 3,683,320.

Weaver, Roger; and Schaffstall, Eugene, to Oxford Chemicals. Composition and method for blackening metal articles. 3,677,827, 7-18-72, Cl. 148-6.14r.

Weaver, Ronald L. Combination shaving brush and stand. 3,653,090, 4-4-72, Cl. 15-105.

Weaver, Theodore L.: See—
Cheney, Richard F.; and Weaver, Theodore L., 3,682,720.

Weaver, Victor F., Inc.: See—
Martin, Eugene G.; and Mohler, Edwin C., 3,672,000.

Weaver, W. R., Company: See—
Steck, William F., 3,645,635.

Steck, William F., III, 3,700,339.

Thompson, John F., 3,696,516.

Weaver, William R. Smoking pipe. 3,675,661, 7-11-72, Cl. 131-212.000.

Weaver, William R., to Libbey-Owens-Ford Company. Core for use in pressure molding. 3,692,551, 9-19-72, Cl. 106-38.300.

- Weaving, John Harold; and Haynes, Cecil David. Atmospheric pollution control arrangement for internal combustion engine. 3,702,111, 11-7-72, Cl. 123-119.00a.
- Weaving, John Harold, to British Leyland Motor Corporation Limited. Atmospheric pollution control arrangement for internal combustion engine. 3,703,164, 11-21-72, Cl. 123-119.00a.
- Web Mercantile Corporation: *See—*
- Berkstresser, William E., 3,687,114.
- Web Press Corporation: *See—*
- Perrault, Delphus Eugene; and Schopp, Frederick Ralph, 3,686,863.
- Web Press Engineering, Inc.: *See—*
- Stout, Arthur G., 3,638,330.
- Webasto-Werke W. Baier KG: *See—*
- Knetsch, Hans, 3,702,430.
- Webb, Alan E., to Rolls-Royce Limited. Method for forming an electrically insulating coating. 3,642,530, 2-15-72, Cl. 117-217.
- Webb, Albert E., to General Aniline & Film Corporation. Slide viewer. 3,675,354, 7-11-72, Cl. 40-63.00a.
- Webb, Austin A. Rail car and supporting track and switch system. 3,640,227, 2-8-72, Cl. 104-130.
- Webb, Bryant F.; and Schwalm, Bruce D., to Sperry Rand Corporation. Flail type rotor for a material spreader. 3,640,473, 2-8-72, Cl. 239-658.
- Webb, Byron K.; and Hood, Clarence E., to Research Corporation. Orchard machine. 3,635,004, 1-18-72, Cl. 56-235.
- Webb, Charles C.: *See—*
- Cover, Lloyd W., Jr.; and Webb, Charles C., 3,671,365.
- Webb, Cleitus E., Jr.; and Johnson, Royce F., to Windsor Door Co., Inc. Swing-up door mullion. 3,672,098, 6-27-72, Cl. 49-365.000.
- Webb, Daniel D., to American Safety Equipment Corporation of Michigan. Face shield. 3,686,690, 8-29-72, Cl. 2-9.000.
- Webb, Darrow L., to United States of America, National Aeronautics and Space Administration. Electronic video editor. 3,702,898, 11-14-72, Cl. 178-6.000.
- Webb, Derek James: *See—*
- Hall, Raymond John; and Webb, Derek James, 3,635,605.
- Webb, Don Eugene: *See—*
- Federline, Richard G., 3,670,443.
- Webb, Frank Allan; and Shorter, John Jeffrey, to Blatchford, Chas. A., & Sons Limited. Fluid pressure control device for an artificial leg. 3,670,341, 6-20-72, Cl. 3-1.200.
- Webb, Frederick J.; and Tate, David P., to Firestone Tire & Rubber Company, The. Process and composition for water-soluble polymers. 3,647,774, 3-7-72, Cl. 260-94.2.
- Webb, Geoffrey A. M.: *See—*
- Bjargard, Bengt; and Webb, Geoffrey A. M., 3,657,535.
- Webb, George, to Avco Corporation. Recoil pad. 3,696,544, 10-10-72, Cl. 42-74.000.
- Webb, Graham: *See—*
- Barnaby, Bernard Sydney; Webb, Graham; and Stevenson, Robert Andrew, 3,686,445.
- Webb, Halmar J.; and Mc Kinley, Walter E. Carton adapted for field assembly. 3,632,037, 1-4-72, Cl. 229-23.
- Webb, James E. Anchor carrier and guide. 3,635,187, 1-18-72, Cl. 114-210.
- Webb, James E. Anchor carrier and guide. 3,675,608, 7-11-72, Cl. 114-210.000.
- Webb, James R.; and Webb, Richard C., to United Bank of Denver National Association, mense. Capacitive electric signal device and keyboard using said device. 3,653,038, 3-28-72, Cl. 340-365.
- Webb, Jervis B. Company: *See—*
- Becker, Raymond M., 3,679,043.
- Dehne, Clarence A.; and Folsom, Harold A., 3,672,306.
- Kavieff, Sheldon M., 3,636,884.
- Kondur, Louis, 3,664,701.
- Macomber, Robert A.; and Dehne, Clarence A., 3,683,817.
- Pachuta, Martin, 3,661,094.
- Webb, John D.: *See—*
- Bushman, Ronald C.; Rickard, Donn J.; Webb, John D.; Alexander, L. Bruce; and Church, Cleveland B., 3,643,716.
- Webb, John M.: *See—*
- Loxley, Ted A.; Webb, John M.; and Barber, Walter G., 3,640,398.
- Loxley, Ted A.; Webb, John M.; and Barber, Walter G., 3,652,248.
- Mellen, Edward J., Jr.; Baker, Edmond M.; and Webb, John M., 3,654,984.
- Webb, Joseph A. Digital signal generator synthesizer. 3,654,450, 4-4-72, Cl. 235-197.
- Webb, Joseph H.; and Stiles, Donald G. Conveyor apparatus. 3,655,029, 4-11-72, Cl. 198-127.
- Webb, Larry Joe, to Honeywell Information Systems Inc., mesne. Apparatus to visually identify and test wires in a multi-wire cable. 3,699,438, 10-17-72, Cl. 324-66.000.
- Webb, Leonard D.: *See—*
- Jordan, Frank W.; and Webb, Leonard D., 3,691,955.
- Webb, Louis R. Portable cooking stove. 3,698,376, 10-17-72, Cl. 126-9.00r.
- Webb, Michael: *See—*
- Fulham, Michael J.; Jones, Richard; Webb, Michael; and Hamard, Jacques, 3,642,934.
- Webb, Michael Guthrie: *See—*
- Desty, Denis Henry; Bretherick, Leslie; and Webb, Michael Guthrie, 3,635,032.
- Webb, Orlando: *See—*
- McGovern, Louis J.; West, Charles L.; and Webb, Orlando, 3,665,050.
- Webb, Oswald, to Ferguson, Harry, Research Limited. Clutches. 3,680,673, 8-1-72, Cl. 192-41.000.
- Webb, Paul D., to Fraser-Webb Corporation. Engine starter. 3,690,189, 9-12-72, Cl. 74-8.000.
- Webb, Ralph L., to Trane Company, The. Heat transfer surface having a high boiling heat transfer coefficient. 3,696,861, 10-10-72, Cl. 165-133.000.
- Webb, Richard A.: *See—*
- Kesten, Patrick N.; Webb, Richard A.; and Bedford, Raymond E., 3,703,387.
- Webb, Richard C.: *See—*
- Webb, James R.; and Webb, Richard C., 3,653,038.
- Webb, Richard C.; and Heath, Robert T., to Colorado Instruments, Inc. Data collection station and static card reader therefor. 3,701,885, 10-31-72, Cl. 235-61.11c.
- Webb, Richard V.; and Batesky, Donald C., to Eastman Kodak Company. Method of preparing poly(copperphthalocyanine). 3,674,805, 7-4-72, Cl. 260-314.50r.
- Webb, Richard V., to Eastman Kodak Company. Solvent composition for liquid scintillation counting. 3,677,964, 7-18-72, Cl. 252-364.000.
- Webb, Robert M.: *See—*
- Parson, Ronald F.; Sherman, Richard M.; and Webb, Robert M., 3,667,674.
- Sherman, Richard M.; and Webb, Robert M., 3,667,675.
- Webb, Robert M.; and Parry, Keith S., to Creears, T. H., Corporation. Fluid level control system. 3,665,209, 5-23-72, Cl. 307-118.000.
- Webb, Samuel L.: *See—*
- Koch, Robert M.; Webb, Samuel L.; and Toby, Dennis E., 3,687,049.
- Webb, Thomas O., to Marathon Oil Company. Use of micellar solution as an emulsion breaker. 3,684,015, 8-15-72, Cl. 166-305.00r.
- Webb, William M.: *See—*
- Hilliker, Donald E.; and Webb, William M., 3,643,464.
- Webber, Charles H.: *See—*
- Foster, Laverne H.; Fox, Robert M.; and Webber, Charles H., 3,635,519.
- Webber, David Arthur: *See—*
- Carne, Michael; Smith, Kenneth Cecil; and Webber, David Arthur, 3,707,066.
- Webber, Harold H.: *See—*
- Brown, Perry H.; and Webber, Harold H., 3,670,485.
- Webber, Harold H.; and Riordan, Pauline F., to Brunswick Corporation. Antistatic garment. 3,699,590, 10-24-72, Cl. 2-73.000.
- Webber, J. Alan: *See—*
- Murphy, Charles F.; Webber, J. Alan; Kaiser, Gary V.; Van Heyningen, Earle M.; Wright, Ian G.; and Cooper, Robin D. G., 3,641,014.
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- Webber, J. Alan; and Van Heyningen, Earle M., to Lilly, Eli, and Company. 3-Aminomethyl cephalosporin compounds. 3,644,347, 2-22-72, Cl. 260-243.
- Webber, J. Alan, to Lilly, Eli, and Company. 3-Formyl cephalosporin sulfoxides. 3,674,784, 7-4-72, Cl. 260-243.00c.
- Webber, Philip S.: *See—*
- Franz, Maurice F.; Herr, Charles H.; Newman, Harry B.; and Webber, Philip S., 3,667,309.
- Webbere, Fred J.; and Williams, Robert G., to General Motors Corporation. Mold apparatus for continuous casting. 3,642,058, 2-15-72, Cl. 164-283.
- Webbere, Fred J., to General Motors Corporation. Aluminum based alloy bearing. 3,667,823, 6-6-72, Cl. 308-237.000.
- Weben Industries, Inc.: *See—*
- Bevier, Charles W., 3,706,109.
- Weber, A. John: *See—*
- Wieland, Roman G.; Weber, A. John; Bearfield, Clair A.; and Cole, Raymond, 3,640,520.
- Weber, Abraham; Frossard, Jacques Jean; and Bouzard, Daniel, to Mead Johnson & Company. Coronary vasodilator compounds. 3,644,417, 2-22-72, Cl. 260-327.
- Weber, Abraham; Frossard, Jacques Jean; and Bouzard, Daniel, to Mead Johnson & Company. Aminopropionanilides. 3,647,877, 3-7-72, Cl. 260-562.
- Weber, Abraham; and Frossard, Jacques Jean, to Mead Johnson & Company, mesne. Dibenzothiazepine ether intermediates. 3,651,087, 3-21-72, Cl. 260-327.
- Weber, Abraham; and Frossard, Jacques Jean, to Mead Johnson & Company. Dibenzothiazepine ethers. 3,700,663, 10-24-72, Cl. 260-243.00b.

- Weber, Abraham; and Frossard, Jacques Jean, to Mead Johnson & Company. Octalene carboxylic acid anhydrides. 3,704,250, 11-28-72, Cl. 260-346.350.
- Weber, Alexander F. Low profile wiper-washer assembly. 3,670,354, 6-20-72, Cl. 15-250.040.
- Weber, Anthony V., to Weber Industries, Inc. Pump control. 3,679,326, 7-25-72, Cl. 417-38.000.
- Weber, Bernhard. Infinitely variable transmission. 3,688,594, 9-5-72, Cl. 74-191.000.
- Weber, Bernhard G.: *See—*
- Huggler, Arnold H.; and Weber, Bernhard G., 3,658,056.
- Weber, Bob L., to Holotron Corporation. Apparatus and method for hologram copying with reference beam intensity control. 3,647,289, 3-7-72, Cl. 355-2.
- Weber, Carl. Vending machine. 3,697,148, 10-10-72, Cl. 312-268.
- Weber, Carl L.; Wolk, Ronald H.; and Chervenak, Michael C., to Hydrocarbon Research, Inc. Phase separation of a gas-liquid-solid mixture. 3,677,716, 7-18-72, Cl. 23-288.00c.
- Weber, Charles A., to Elkhart Welding & Boiler Works, Inc. Trailer hitch. 3,679,232, 7-25-72, Cl. 280-406.00a.
- Weber, Charlotte: *See—*
- Van Stappen, Albert Louis; Schwarz, Karl; and Weber, Hans, 3,707,376.
- Weber, Christian: *See—*
- Diehr, Hans Joachim; Merten, Rudolf; Uhlig, Konrad; Piechota, Helmut; and Weber, Christian, 3,634,345.
- Weber, Daniel E.: *See—*
- Mc Intosh, Lionel D.; and Weber, Daniel E., 3,696,247.
- Weber, David J.: *See—*
- Berg, Robert A.; Decker, Robert W.; Hart, Donald R.; and Weber, David J., 3,645,119.
- Weber Dental Manufacturing Company, The: *See—*
- Buchtel, Dean H.; Lappin, Kenneth R.; and Maurer, John A., 3,653,078.
- Buchtel, Dean H.; and Maurer, John A., 3,664,024.
- Buchtel, Dean H.; and Maurer, John A., 3,684,341.
- Weber, Edward V.: *See—*
- Kruppa, Robert W.; Weber, Edward V.; and Woodard, Ollie C., 3,644,700.
- Weber, Edwin J.; and Bunyea, Roderick F., to Black and Decker Manufacturing Company, The. Switch operating trigger with integral biasing means and excessive force protection means. 3,646,298, 2-29-72, Cl. 209-157.
- Weber, Edwin J., to Black and Decker Manufacturing Company, The. Coupling for tool element. 3,670,413, 6-20-72, Cl. 30-276.000.
- Weber, Edwin J., to Black and Decker Manufacturing Company, The. Blade mounting means. 3,673,777, 7-4-72, Cl. 56-17.500.
- Weber, Edwin J., to Black and Decker Manufacturing Company, The. Grass catcher for reel type mower. 3,691,740, 9-19-72, Cl. 56-198.000.
- Weber, Erhard: *See—*
- Hauptmann, Gerhard; and Weber, Erhard, 3,686,078.
- Weber, Erich: *See—*
- Martin, Johannes Josef; and Weber, Erich, 3,667,627.
- Weber, Ewald: *See—*
- Von Den Hoff, Toni; and Weber, Ewald, 3,704,649.
- Weber, Franz: *See—*
- Alberti, John; and Weber, Franz, 3,693,919.
- Weber, Gunter R.; Bickel, Charles E.; and Krueger, Richard W., to Burroughs Corporation. Disc file AGC circuit. 3,660,821, 5-2-72, Cl. 340-174.1.
- Weber, Guy Paul, to La Cellophane. Apparatus for reading and electrophotographically reproducing microphotographs of varying sizes. 3,692,409, 9-19-72, Cl. 355-45.000.
- Weber, H. G., and Company, Inc.: *See—*
- Bedore, Clifford J., 3,645,815.
- Jacobsen, Paul W., 3,643,816.
- Weber, Hans: *See—*
- Van Stappen, Albert Louis; Schwarz, Karl; and Weber, Hans, 3,707,376.
- Weber, Hans, to Demag Aktiengesellschaft. Process and apparatus for stretch forming metal. 3,690,138, 9-12-72, Cl. 72-189.000.
- Weber, Hans B.; and Brown, Joseph, to Midland-Ross Corporation. Dampened railway car truck. 3,670,660, 6-20-72, Cl. 105-171.000.
- Weber, Heinz, to Telesco Brophey Limited. Automatically-opened, longitudinally-collapsible umbrella with improved handle. 3,640,298, 2-8-72, Cl. 135-25.
- Weber, Heinz, to Telesco Brophey Limited. Umbrella. 3,643,673, 2-22-72, Cl. 135-20.
- Weber, Heinz, to Bremshey & Co. Collapsible umbrella frame. 3,650,284, 3-21-72, Cl. 135-26.
- Weber, Heinz, to Telesco Brophey Limited. Umbrella handle. 3,661,162, 5-9-72, Cl. 135-20.
- Weber, Heinz, to Telesco Brophey Limited. Handle for umbrella. 3,670,748, 6-20-72, Cl. 135-20.000.
- Weber, Heinz, to Institut für angewandte Physik der Universität Bern. Process and device for the generation of a single-frequency light ray. 3,676,796, 7-11-72, Cl. 331-94.500.
- Weber, Heinz, to Telesco Brophey Limited. Handle for collapsible umbrella. 3,678,949, 7-25-72, Cl. 135-20.000.
- Weber, Heinz. One-piece runner for collapsible umbrellas. 3,688,788, 9-5-72, Cl. 135-28.000.
- Weber, Heinz, to Bremshey & Co. Collapsible umbrella. 3,693,643, 9-26-72, Cl. 135-26.000.
- Weber, Heinz, to Telesco Brophey Limited. Telescopic umbrella. 3,698,410, 10-17-72, Cl. 135-26.000.
- Weber, Heinz, to Telesco Brophey Limited. Collapsible umbrella. 3,699,988, 10-24-72, Cl. 135-20.000.
- Weber, Heinz, to Telesco Brophey Limited. Collapsible umbrella. 3,702,618, 11-14-72, Cl. 135-25.00r.
- Weber, Heinz, to Telesco Brophey Limited. Umbrella handle. 3,705,592, 12-12-72, Cl. 135-20.00r.
- Weber, Heinz, to Telesco Brophey Limited. Umbrella. 3,705,593, 12-12-72, Cl. 135-20.000.
- Weber, Heinz Paul: *See—*
- Kaminow, Ivan Paul; and Weber, Heinz Paul, 3,675,157.
- Weber, Helmut: *See—*
- Pfeuffer, Alfred; Kalkhof, Gustav; and Weber, Helmut, 3,704,012.
- Weyer, Rudi; Aumuller, Walter; Weber, Helmut; Muth, Karl; and Heerdt, Ruth, 3,644,634.
- Weber, Helmut; Weyer, Rudi; Aumuller, Walter; Muth, Karl; and Stach, Kurt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Benzenesulfonyl ureas having hypoglycemic activity. 3,655,756, 4-11-72, Cl. 260-553.
- Weber, Helmut; Aumuller, Walter; Weyer, Rudi; Muth, Karl; and Stach, Kurt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Benzenesulfonyl semicarbazides and process for preparing them. 3,705,151, 12-5-72, Cl. 260-239.0ba.
- Weber, Henri. Tool. 3,666,238, 5-30-72, Cl. 254-131.5.
- Weber, Hermann: *See—*
- Knauff, Gunter; Koederitz, Fritz; Painke, Helmut; Reichl, Leopold; Lampe, Hans H.; Vachenaue, Robert; Vogt, Edwin; and Weber, Hermann, 3,659,273.
- Weber, Horst: *See—*
- Schwochow, Friedrich; Heinze, Gerhard; and Weber, Horst, 3,685,963.
- Weber Industries, Inc.: *See—*
- Weber, Anthony V., 3,679,326.
- Weber, James W. Table. 3,683,824, 8-15-72, Cl. 108-92.000.
- Weber, John L. Polishing machine. 3,631,634, 1-4-72, Cl. 51-131.
- Weber, Joseph H. Game structure employing markers and links. 3,695,616, 10-3-72, Cl. 273-130.00r.
- Weber, Jürgen: *See—*
- Bergerhoff, Gunter; Tihanyi, Bela; Falbe, Jürgen; and Weber, Jürgen, 3,681,435.
- Bergerhoff, Gunter; Tihanyi, Bela; Falbe, Jürgen; Weber, Jürgen; and Weisheit, Werner, 3,681,477.
- Falbe, Jürgen; Tummes, Hans; and Weber, Jürgen, 3,681,465.
- Weber, Karl F. Display panel for merchandise or the like. 3,698,565, 10-17-72, Cl. 211-87.000.
- Weber, Karl Heinz; and Engelhardt, Horst, to Gebr. Eickhoff, Maschinenfabrik und Eisengiesserei m.b.H. Apparatus for controlling and regulating a cutter hoist. 3,633,081, 1-4-72, Cl. 318-39.
- Weber, Karl-Arnold: *See—*
- Keberle, Wolfgang; Striegler, Hellmut; and Weber, Karl-Arnold, 3,684,639.
- Weber, Karl-Heinz; Merz, Herbert; Zeile, Karl; Giesemann, Rolf; and Danneberg, Peter, to Boehringer, C. H., Sohn. 5-Aryl-1H-1,5-benzodiazepine-2,4-diones. 3,660,381, 5-2-72, Cl. 260-239.3.
- Weber, Karl-Heinz; Bauer, Adolf; Merz, Herbert; and Minck, Klaus, to Boehringer Ingelheim G.m.b.H. 7-Nitro-1H-1,5-benzodiazepine-2,4-(3H,5H)-diones. 3,678,033, 7-18-72, Cl. 260-239.300.
- Weber, Karl-Heinz; Zeile, Karl; Giesemann, Rolf; and Danneberg, Peter, to Boehringer Ingelheim G.m.b.H. Psychosedative compositions containing 1-acyl-5-phenyl 1H-1,5-benzodiazepine-2,4-(3H,5H)-diones and methods of using the same. 3,683,348, 8-8-72, Cl. 42-244.000.
- Weber, Karl-Heinz; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Hauptmann, Karl Heinz; deceased (by Hauptmann, Maria; heir), to Boehringer Ingelheim G.m.b.H. 5-Phenyl-7-chloro-1H-1,5-benzodiazepine-2,4-(3H,5H)-diones. 3,684,798, 8-15-72, Cl. 260-239.300.
- Weber, Karl-Heinz; Bauer, Adolf; Danneberg, Peter; Minek, Klaus; and Pook, Karl-Heinz, to Boehringer Ingelheim G.m.b.H. 1,5,7-Trisubstituted-3-hydroxy-1H-1,5-benzodiazepine-2,4-[3H,5H]diones. 3,707,538, 12-26-72, Cl. 260-239.30r.
- Weber, Karl-Heinz; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Hauptmann, Heinz; deceased (by Hauptmann, Maria; heir), said Weber said Zeile said Danneberg and said Giesemann assors. to Boehringer Ingelheim G.m.b.H. 5-Phenyl-7-Trifluoromethyl-1H-1,5-benzodiazepine-2,4-diones. 3,707,539, 12-26-72, Cl. 260-239.30b.
- Weber, Kenneth E.; Hoch, Geraldine H.; and Wanamaker, John L., to Lockheed Aircraft Corporation. Production of dicobaltous oxochromate and percobaltous oxochromate. 3,664,808, 5-23-72, Cl. 23-56.000.

- Weber, Klaus; and Urbahn, Fritz; to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Multi-spindle drive means for spinning and twisting machines. 3,664,111, 5-23-72, Cl. 57-105.
- Weber, Klaus; Becker, Erwin; and Grosstuck, Werner, to Weber, Klaus D. Method of producing separating nozzles. 3,668,080, 6-6-72, Cl. 204-9.000.
- Weber, Klaus D.: See—
Weber, Klaus; Becker, Erwin; and Grosstuck, Werner, 3,668,080.
- Weber Knapp Company: See—
Little, Carl H., 3,666,341.
- Weber, Lawrence D.: See—
Catterfeld, Fritz C.; Macaluso, Sebastian B.; and Weber, Lawrence D., 3,695,367.
- Weber, Leonard J.: See—
Dominick, George G.; Sciacero, Rinaldo; Weber, Leonard J.; Wimpfen, George I.; and Kardos, Theodore Louis, 3,693,870.
- Weber, Ludwig, to Daimler-Benz Aktiengesellschaft. Headrest at the backrest of a motor vehicle seat. 3,635,527, 1-18-72, Cl. 297-410.
- Weber Marking Systems, Inc.: See—
Anderson, Bror E.; and Schick, Margery L., 3,704,155.
Larson, Leonard G.; Anderson, Bror E.; and Schick, Margery L., 3,694,244.
Roser, Gerhard K.; Rebechini, Eugene J.; and Vosburg, Guy M., 3,678,848.
- Weber, Paul; Ritzmann, Horst; and Butschko, Gerhard, to Polysius AG. Apparatus for heat treatment of material from which water has been mechanically extracted. 3,664,650, 5-23-72, Cl. 263-32.
- Weber, Paul, AG: See—
Schroeder, Peter, 3,667,664.
Schroeder, Peter, 3,690,814.
- Weber, Paul E., to Bell & Howell Company. Semi-conductive apparatus for detecting light of given flux density levels. 3,693,016, 9-19-72, Cl. 250-211.00j.
- Weber, Paul E. Multiple lenslet copier. 3,694,076, 9-26-72, Cl. 355-50.000.
- Weber, Raymond B., to Milprint, Inc. Tachistoscope. 3,704,533, 12-5-72, Cl. 35-35.00b.
- Weber, Reinhold: See—
Cadus, Anton; Uhr, Hermann; and Weber, Reinhold, 3,661,837.
- Weber, Rene: See—
Sanz, Manuel Claude; and Weber, Rene, 3,684,409.
Sanz, Manuel Claude; and Weber, Rene, 3,706,233.
- Weber, Robert: See—
Kruger, Joachim; Schabert, Hans-Peter; Schubert, Franz; and Weber, Robert, 3,691,011.
Pomer, Horst; Schabert, Hans-Peter; and Weber, Robert, 3,690,685.
- Weber, Robert L., to Scovill Manufacturing Company. Rest-inducing device. 3,672,354, 6-27-72, Cl. 128-33.000.
- Weber, Robert L., to Scovill Manufacturing Company. Hair-drying comb. 3,696,818, 10-10-72, Cl. 132-9.000.
- Weber, Roger L.: See—
Cooke, Harry F.; Weber, Roger L.; Hall, Donald B.; and Whitten, Darrell W., 3,659,205.
- Weber, Roger L., to Texas Instruments, Incorporated. Method of adjusting inductive devices. 3,670,406, 6-20-72, Cl. 29-593.000.
- Weber, Roland E.; and Zimmermann, Carl J. Anti-pollution device for removing debris from liquid. 3,698,558, 10-17-72, Cl. 210-256.000.
- Weber, Roland Edmond: See—
Barrault, Rene Louis; and Weber, Roland Edmond, 3,651,790.
- Weber, Ronald A., to Esso Production Research Company. Metal-to-metal seal. 3,637,223, 1-25-72, Cl. 277-205.
- Weber, Rudolf; and Jahn, Emil, to International Standard Electric Corporation. Arrangement for lubricating the perforating pins of tape and card perforators. 3,668,960, 6-13-72, Cl. 83-169.000.
- Weber, Russell W. Carpet-trimming. 3,678,586, 7-25-72, Cl. 33-174.00g.
- Weber, Sheldon Alan, to Ampex Corporation. Magnetic recording tape and method for preparing the same. 3,647,539, 3-7-72, Cl. 117-235.
- Weber, Urban A.: See—
Laakaniemi, Richard N.; Kuczkowski, Frank A.; Atkinson, Louis D.; Kuhar, Paul W.; Lechner, Thomas J., Jr.; and Weber, Urban A., 3,705,595.
- Weber, Urban A.; and Janu, George J., to Johnson Service Company. Bleed type fluid pressure control apparatus and diaphragm unit therefor. 3,662,779, 5-16-72, Cl. 137-489.
- Weber, Vernon F., to GTE Automatic Electric Laboratories Incorporated. Tone detector control circuit. 3,638,038, 1-25-72, Cl. 307-233.
- Weber, Walter W.: See—
Costanza, Carl C.; Weber, Walter W.; Betlejewski, Frank W.; and Frystak, Richard, 3,659,934.
- Weber, Werner: See—
Jastrow, Horst; and Weber, Werner, 3,657,164.
- Weber, Wilbert D.; and Ashton, Robert, to Massey-Ferguson Industries Limited. Self propelled sweet corn harvester. 3,693,330, 9-26-72, Cl. 56-12.800.
- Weber, Willi: See—
Sturm, Carl-Heinz; and Weber, Willi, 3,688,838.
- Weber-Knapp Company: See—
Little, Carl H., 3,678,536.
Little, Carl H., 3,688,342.
- Webers, Robert J.: See—
Christensen, Norman B.; Clark, Thomas A.; and Webers, Robert J., 3,643,696.
- Webinger, George P., to Container Corporation of America. Carton with product holding feature. 3,672,559, 6-27-72, Cl. 229-39.00r.
- Webley, Houston F. Vehicular anti-theft brake locking device and method. 3,698,505, 10-17-72, Cl. 180-114.000.
- Webre, Alfred L., Jr.: See—
Steppe, Kenneth E.; and Webre, Alfred L., Jr., 3,698,949.
- Webster, Adrian D., to Spectra-Strip Corporation. Method and apparatus for punching terminal loops from multiple wire cable. 3,636,991, 1-25-72, Cl. 140-105.
- Webster, Burton E. Automobile body worktable. 3,689,057, 9-5-72, Cl. 269-17.000.
- Webster, Edward Ernest: See—
Jones, David Thomas; Jowett, George Edward; and Webster, Edward Ernest, 3,674,030.
- Webster Electric Company, Inc.: See—
Campbell, Richard H., 3,665,332.
Hubbard, Glenn R., 3,650,297.
Luszig, Gavril T., 3,698,841.
McAlvay, John C., 3,689,076.
McMillin, Grant L., Jr., 3,664,609.
Wagner, John B., 3,662,451.
- Webster, Francis P.: See—
Myer, Jon H.; Hasslinger, Robert L.; and Webster, Francis P., 3,663,800.
- Webster, George H.: See—
Dembiak, Matthew R.; and Webster, George H., 3,703,605.
Dembiak, Matthew Raymond; and Webster, George H., 3,679,503.
- Webster, George Harry: See—
De Veau, George Frank, Jr.; Nutt, Wendell Glenn; and Webster, George Harry, 3,662,367.
- Webster, George R. Cable forming machine. 3,651,629, 3-28-72, Cl. 57-13.
- Webster, Harold W. Clothes caddy. 3,633,802, 1-11-72, Cl. 224-45.
- Webster, Joseph George; and Tuck, William Henry, to Bakelite Xylonite Limited. Method of forming an expanded polyethylene cast on a living body. 3,662,057, 5-9-72, Cl. 264-321.
- Webster, Milo E., to Gillette Company, The. Aerosol valve. 3,633,798, 1-11-72, Cl. 222-402.22.
- Webster, Milo E., to Gillette Company, The. Aerosol valve with safety relief device. 3,666,148, 5-30-72, Cl. 222-396.
- Webster, Owen Wright, to Du Pont de Nemours, E. I., and Company. Preparation of diaminosuccinonitrile from hydrogen cyanide, chlorine and trimethylamine. 3,666,787, 5-30-72, Cl. 260-465.5.
- Webster, Pierre A. J.: See—
Webster, Pierre A. J.; and Langlois, Andrew H. A. (said Langlois assor to said), 3,642,169.
- Webster, Pierre A. J.; and Langlois, Andrew H. A., said Langlois assor to said Webster, Pierre A. J. Containers adapted to be stacked. 3,642,169, 2-15-72, Cl. 220-97.
- Webster, Ranson W., Jr.; and Jarke, Ernst H., III. Shadow box. 3,666,936, 5-30-72, Cl. 240-2.
- Webster, Robert A., to Mallory, P. R., & Co., Inc. Component having terminal insert seal. 3,686,538, 8-22-72, Cl. 317-230.000.
- Webster, Robert B., to Newell Mfg. Co. Decorative picture hanger assembly. 3,685,781, 8-22-72, Cl. 248-497.000.
- Webster, Roger R.: See—
Vendelin, George D.; and Webster, Roger R., 3,636,420.
- Webster, Ronald B., to Gerber Scientific Instrument Company, The. Variable aperture photoexposure device. 3,695,154, 10-3-72, Cl. 95-1.00r.
- Webster, Ronald Kerry: See—
Causier, Roy; Farren, John; Jones, Terence Leslie; Taylor, Brian Leslie; and Webster, Ronald Kerry, 3,698,819.
- Webster, Sidney T.: See—
D'Amico, John Joseph; and Webster, Sidney T., 3,632,550.
D'Amico, John Joseph; and Webster, Sidney T., 3,668,254.
- Webster Spring Co., Inc.: See—
Earle, Clarence W., 3,684,270.
Garceau, Harry A., 3,660,854.
Garceau, Harry A., 3,662,411.
- Webster, William E., to Midland-Yorkshire Tar Distillers Limited. Preparation of quaternary polyvinyl pyridine polymers in water. 3,682,939, 8-8-72, Cl. 260-294.80r.
- Wecenske, Harold R.: See—
Santry, George J.; and Wecenske, Harold R., 3,672,107.
- Wech, Robert J., to FMC Corporation. Bag machine. 3,663,338, 5-16-72, Cl. 156-515.
- Wech, Robert J. Bag machine. 3,678,812, 7-25-72, Cl. 93-20.000.
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Hirsch, Winfred S., 3,658,065.
Hoef, William A., 3,694,280.
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- Weckesser, Ernst: See—
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- Wedam, Werner Franz, to Sylvania Electric Products, Inc. Pulse regulator controlled from voltage multiplier. 3,693,043, 9-19-72, Cl. 315-29.000.
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Feder, Friedhelm R., 3,694,037.
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- Wedel, Alfred W.: See—
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- Wedel, Alfred W., to Cameron Iron Works, Inc. Apparatus for temporarily closing a pipeline. 3,677,575, 7-18-72, Cl. 285-3.000.
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- Wedemeyer, Karlfried: See—
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- Wedge Wire Corporation: See—
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- Weed, Lucretia J., to Polaroid Corporation. Novel photographic products and processes. 3,700,441, 10-24-72, Cl. 96-29.00r.
- Weed, Willard N., to Boeing Company, The. Jet engine exhaust nozzle system. 3,667,680, 6-6-72, Cl. 239-265.170.
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- Weedon, Gene C.; Lofquist, Robert A.; and Mumford, Robin B., to Allied Chemical Corporation. Light stable polyamide having an improved retention for acid dyes. 3,642,714, 2-15-72, Cl. 260-78.
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- Weedon, Gene Clyde: See—
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- Weeklund, Wayne Donald: See—
Johansson, Ronald C.; and Weeklund, Wayne Donald, 3,676,574.
- Weekman, Vern W., Jr.: See—
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- Weeks, Francis G. Ski edge sharpener. 3,670,601, 6-20-72, Cl. 76-83.000.
- Weeks, Horace W.: See—
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- Weeks, Horace W.; and Frazier, John R., to National Cash Register Company, The. Letter feeder, synchronous friction type. 3,664,661, 5-23-72, Cl. 271-36.
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- Weeks, Lloyd E., to Monsanto Company. Dental creams containing enzymes. 3,696,191, 10-3-72, Cl. 424-50.000.
- Weeks, Robert Hugh, to Du Pont de Nemours, E. I., and Company. Process for purification of fluoroperhalocarbons. 3,696,156, 10-3-72, Cl. 260-653.000.
- Weeks, Wyatt J., to N L Industries, Inc. Fluidized material pump. 3,704,962, 12-5-72, Cl. 417-143.000.
- Weems, George W.: See—
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- Weener, Earl: See—
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- Weetall, Howard H., to Corning Glass Works. Immunochemical composites and antigen or antibody purification therewith. 3,652,761, 3-28-72, Cl. 424-12.
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- Wefco, Inc.: See—
Winslow, Willis M., 3,660,757.
- Weg, Leo: See—
Friederichs, Josef E.; Friederichs, Edgar E.; and Weg, Leo, 3,655,052.
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Nitzsche, Siegfried; Burkhardt, Jürgen; and Wegehaupt, Karl-Heinrich, 3,706,591.
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- Triem, Hermann; Wick, Manfred; Nitzsche, Siegfried; and Wegehaupt, Karl-Heinrich, 3,652,711.
- Wegemund, Bernd; and Galinke, Joachim, to Henkel & Cie G.m.b.H. Adhesives or sealing agents which harden on exclusion of oxygen comprising esters of acrylic acids and dicyclopentadienols. 3,642,750, 2-15-72, Cl. 260-89.5.
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- Wegener, Otto; Oberkubusch, Rudolf; Collin, Gerd; Zander, Maximilian; and Buffleb, Herbert, to Rutgerswerke Aktiengesellschaft. Process for obtaining aromatic hydrocarbons from oils and/or their residues, rich in aromatic hydrocarbons, and having a high content of unsaturated compounds. 3,654,135, 4-4-72, Cl. 208-71.
- Weger, Ronald E. Radio control and repeater communication system. 3,699,443, 10-17-72, Cl. 325-4.000.
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- Wegerich, Anton; Arend, Wolfgang; Himmelhan, Emil; and Wittwer, Arnold, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Purification of adiponitrile. 3,657,315, 4-18-72, Cl. 260-465.8.
- Weggel, Ralph W.; and Blann, William A., to Allis-Chalmers Manufacturing Company. Process and apparatus for the recovery of oil from shale by indirect heating. 3,644,193, 2-22-72, Cl. 208-11.
- Weggeland, John Henry. Photograph mounting jig. 3,679,198, 7-25-72, Cl. 269-3.000.
- Wegler, Richard: See—
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 Zumach, Gerhard; Hammann, Ingeborg; Unterstenhofer, Gunter; and Wegler, Richard, 3,683,031.
 Weglin, Walter; and Wildebour, Charles W., to Jerobee Industries, Inc., mesne. Method of contemporaneously shearing and bonding conductive foil to a substrate. 3,678,577, 7-25-72, Cl. 29-625.000.
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 Thiele, Henry; Von Doring, Tilo; and Wegner, Gerd, 3,636,753.
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 Wehner, William C. Remote control mirror and control mechanism therefore. 3,659,477, 5-2-72, Cl. 74-501.
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 Palme, Karl; and Watts, Raymond L., 3,682,279.
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 Schreyer, Gerd; Troger, Jurgen; Weigert, Wolfgang; and Weiberg, Otto, 3,707,444.
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 Shattuck, Meredith David; and Weiche, William J., 3,676,210.
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 Plumpe, William H., Jr.; and Weichselbaum, Theodore E., 3,701,601.
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 Weickhardt, Ludwig: See—
 Knothe, Erich Emil; and Weickhardt, Ludwig, 3,656,567.
 Weickhardt, Ludwig, to Sartorius-Werke GmbH (und vormals Gottinger Prazisionswaagenfabrik GmbH). Beam balance with a tare spring and a device for compensation of levelling errors. 3,661,222, 5-9-72, Cl. 177-178.
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 Weidel, Vaughn: See—
 Dalton, Oliver; and Weidel, Vaughn, 3,668,505.
 Weidele, Othmar: See—

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 Weidemann, Rudolf. Connector for fixing hollow bodies to supports. 3,683,461, 8-15-72, Cl. 24-73.0hs.
 Weidenbacker, Russell A. Ice skate edge guard. 3,637,231, 1-25-72, Cl. 280-11.38.
 Weidenhagen, Rudolf: See—
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 Weidenmuller, Hilmar: See—
 Kraemer, Friedrich; Mandel, Jörn; Mayer, Siegfried; Rohrig, Klaus; Schulz, Hans-Peter; Weidenmuller, Hilmar; Haverkamp, Klaus Dieter; and Motz, Jurgen, 3,664,826.
 Weider, John J., to Speedrack Inc. Structural lock for connecting horizontal and vertical members. 3,638,981, 2-1-72, Cl. 287-189.36.
 Weidinger, Walter: See—
 Strole, Ulrich; Klein, Rudolf; and Weidinger, Walter, 3,652,358.
 Weidlich, William R.: See—
 Pullman, James O.; and Weidlich, William R., 3,696,299.
 Weidlin von Boden, Alberto; and Enzian, Ernest, to Countess Mara, Inc. Fabric-holding clamp for embroidery machines. 3,664,288, 5-23-72, Cl. 112-103.
 Weidman, Roger F. Code marking mechanism. 3,648,601, 3-14-72, Cl. 101-35.
 Weidman, Verne Wesley: See—
 Gerow, Stephen A.; and Weidman, Verne Wesley, 3,658,564.
 Gerow, Stephen A.; and Weidman, Verne Wesley, 3,663,250.
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 McMartin, William J.; and Weidmann, Hans E., 3,651,400.
 Weidmann, Walter: See—
 Zirngibl, Hans; Jaschiski, Klemens; Brande, Karl; Beumer, Peter; and Weidmann, Walter, 3,681,895.
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 Glawleschko, Basilus; Krieg, Gebhard; Weidmann, Wolfgang; and Weiss, Adolf, 3,660,691.
 Weidner, Eric, to Danfoss A/S. Method and apparatus for charging a thermostatic system. 3,636,992, 1-25-72, Cl. 141-4.
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 Homberg, Heinz; and Weidner, Georg, 3,657,497.
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 Bienert, Klaus; Lang, Winfried; Nordt, Egon; and Weidner, Herbert, 3,700,413.
 Weidner, Jack E.: See—
 Blachly, Donald L.; and Weidner, Jack E., 3,678,246.
 Weiers, Merle E. Die casting plungers. 3,670,805, 6-20-72, Cl. 164-312.000.
 Weiershausen, Walter: See—
 Bestenreiner, Friedrich; Weiershausen, Walter; and Janovjak, Paul, 3,698,810.
 Weigand, Arthur D.: See—
 Priest, Wayne A.; and Weigand, Arthur D., 3,687,249.
 Weigel, Charles P., to Timken Company. The. Method of forming a bearing by melting, working and heat treatment. 3,704,183, 11-28-72, Cl. 148-126.000.
 Weigel, Earl Howard: See—
 Leff, Millard; Malazinsky, Joseph Daniel; and Weigel, Earl Howard, 3,661,469.
 Weigel, James E.: See—
 Johnson, William R.; Sevy, William R.; Weigel, James E.; and Taller, Robert A., 3,701,746.
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 Smith, Oliver Wendell; Weigel, James Edward; and Trecker, David J., 3,700,643.
 Weigel, Jurgen, to ECM Gesellschaft fur elektrochemische Materialbeschichtung mbH & Co. KG. Process for depositing organic coatings. 3,645,872, 2-29-72, Cl. 204-181.
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 Weigel, Robert M.: See—
 Coyer, Robert D.; and Weigel, Robert M., 3,704,466.
 Whitener, Philip C.; and Weigel, Robert M., 3,643,898.
 Weigel, Virginia: See—
 Coyer, Robert D.; and Weigel, Robert M., 3,704,466.
 Weigele, Manfred: See—
 Leimgruber, Willy; and Weigele, Manfred, 3,678,051.
 Leimgruber, Willy; and Weigele, Manfred, 3,681,331.
 Leimgruber, Willy; and Weigele, Manfred, 3,689,498.
 Leimgruber, Willy; and Weigele, Manfred, 3,700,679.
 Leimgruber, Willy; and Weigele, Manfred, 3,655,716.
 Weigelt, Peter. Magnetic door closure device. 3,664,699, 5-23-72, Cl. 292-251.500.
 Weigert, Wolfgang: See—

- Geiger, Friedrich; Lussling, Theodor; Theissen, Ferdinand; and Weigert, Wolfgang, 3,687,621.
 Koberstein, Edgar; Lussling, Theodor; Noll, Ewald; Suchsland, Helmut; and Weigert, Wolfgang, 3,639,269.
 Schreyer, Gerd; and Weigert, Wolfgang, 3,697,602.
 Schreyer, Gerd; Weiberg, Otto; and Weigert, Wolfgang, 3,699,217.
 Schreyer, Gerd; Troger, Jurgen; Weigert, Wolfgang; and Weiberg, Otto, 3,707,444.
 Schwarze, Werner; and Weigert, Wolfgang, 3,634,423.
 Weighart, Frederick G.: See—
 Munger, Donald W.; and Weighart, Frederick G., 3,688,562.
 Weight, Donald, to Monsanto Chemicals Limited. Footwear. 3,643,353, 2-22-72, Cl. 36-44.
 Weightman, Clive Harry, to Imperial Chemical Industries Limited. Manufacture of non-woven fibrous webs. 3,660,868, 5-9-72, Cl. 19-163.000.
 Weightman, Herbert G., to Comco Supply, Inc. Apparatus for dispensing powder such as abrasive powder. 3,638,839, 2-1-72, Cl. 222-193.
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 Weigl, John W., to Xerox Corporation. Displaying and printing apparatus. 3,698,807, 10-17-72, Cl. 355-45.000.
 Weigl, William: See—
 Southam, Donald L.; Weigl, William; and Kacmarcik, Thomas J., 3,691,948.
 Weigle, Wayne L.: See—
 Milberger, Walter E.; and Weigle, Wayne L., 3,700,928.
 Weigmann, Erich W.: See—
 Lincks, Hans; and Weigmann, Erich W., 3,703,266.
 Weibberger, Philipp J. Protection of articles in transit. 3,661,252, 5-9-72, Cl. 206-62.
 Weijland, Bernard Hendrik: See—
 Frentz, Herman; and Weijland, Bernard Hendrik, 3,649,387.
 Weijman-Hane, Gunnar. Device for sedimentation of particles from liquid. 3,706,384, 12-19-72, Cl. 210-519.000.
 Weikel, Donald J., Jr., to Xerox Corporation. Transfer apparatus. 3,647,292, 3-7-72, Cl. 355-3.
 Weil, Burt: See—
 Bourgraf, Elroy E.; and Dunn, Robert E., 3,637,232.
 Weil, Edward A.: See—
 Atkinson, Roger F.; Parr, Richard H., Jr.; and Weil, Edward A., 3,697,984.
 Weil, Edward D.: See—
 Biranowski, Jerome B.; and Weil, Edward D., 3,641,202.
 Greenbaum, Sheldon B.; Weil, Edward D.; and Newcomer, Jack S., 3,687,831.
 Herz, Jack L.; and Weil, Edward D., 3,645,972.
 Weil, Edward D.; Stamm, Walter; and Mirviss, Stanley B., to Stauffer Chemical Company. Polymerizable derivative of nitrilotriacetic acid. 3,636,083, 1-18-72, Cl. 260-482.
 Weil, Edward D.; and Schlichting, Hans L., to Hooker Chemical Corporation. Substituted allyl phenols. 3,639,487, 2-1-72, Cl. 260-613.
 Weil, Edward D.; and Smith, Keith J., to Hooker Chemical Corporation. Thiabicyclonanes and process. 3,644,415, 2-22-72, Cl. 260-327.
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 Weil, Edward D., to Hooker Chemical Corporation. Polyvinyl halide thioether polymers. 3,655,618, 4-11-72, Cl. 260-47.
 Weil, Edward D.; Smith, Keith J.; and Geering, Emil J., to Hooker Chemical Corporation. Method of controlling bacteria and fungi. 3,657,447, 4-18-72, Cl. 424-274.
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 Weil, Edward D., to Stauffer Chemical Company. Transmitting pressure in a hydraulic system. 3,674,698, 7-4-72, Cl. 252-78.000.
 Weil, Edward D., to Stauffer Chemical Company. Process for flameproofing textiles. 3,695,925, 10-3-72, Cl. 117-93.310.
 Weil, Edward D., to Stauffer Chemical Company. Benzoylation of triaryl phosphates. 3,697,628, 10-10-72, Cl. 260-968.000.
 Weil, Ira: See—

- Lamberti, Vincent; Konort, Mark D.; and Weil, Ira, 3,692,685.
Weil, Ira, to Lever Brothers Company. Novel detergent composition. 3,686,098, 8-22-72, Cl. 252-550.000.
- Weil, Raoul B., to Monsanto Company. Temperature sensor. 3,672,221, 6-27-72, Cl. 73-339.00r.
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La Barber, Joseph A., 3,683,899.
La Barber, Joseph A., 3,695,781.
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Haid, Erich; and Weimann, Gunter, 3,642,772.
- Weimann, Klaus: *See—*
Muller, Elmar; and Weimann, Klaus, 3,638,080.
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- Weimer, Charles L.; and Fouse, Samuel S., to Westinghouse Electric Corporation. Plug-in bus duct with heat dissipation means. 3,683,313, 8-8-72, Cl. 339-22.00b.
- Weimer, Gerald A., to Kellwood Company. Portable camping stove. 3,687,125, 8-29-72, Cl. 126-38.000.
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Lozano, Gustavo Jimenez; Bosisto, Carlos Alberto; and Weinbaum Alejan Dro Sise, 3,690,006.
- Weinberg, Alan E.: *See—*
Baron, Frank A.; Benner, Roland G.; and Weinberg, Alan E., 3,694,508.
- Weinberg, Alfred F.: *See—*
Selleck, Edward G.; Weinberg, Alfred F.; and Tully, Geoffrey R., Jr., 3,653,995.
- Weinberg, Gerd: *See—*
Munk, Edmund; Haas, Herbert; and Weinberg, Gerd, 3,697,208.
- Weinberg, Kurt, to Union Carbide Corporation. 1,6-Diphosphatryptene. 3,651,147, 3-21-72, Cl. 260-606.5.
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Masatsugu, Kishima, 3,660,317.
- Weinberger, George W.: *See—*
Bogaerts, Leo C.; and Weinberger, George W., 3,670,584.
- Weinberger, Hershel, to State of Israel. Braille typewriter. 3,640,368, 2-8-72, Cl. 197-6.1.
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Breer, Karl Wilhelm; and Weinbrenner, Erwin, 3,705,821.
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Greason, William Wallace, III; and Weiner, David William, 3,697,700.
Greason, William Wallace, III; and Weiner, David William, 3,697,701.
- Weiner, Karl I.: *See—*
Grasvoll, Halvor, 3,648,857.
- Weiner, Leon: *See—*
Weiner, Leon; Kilpatrick, John E.; and Spiger, Robert J. (said Kilpatrick and said Spiger, assors. to said), 3,679,877.
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Pandjiris, Anthony K.; Frederick, Arthur I.; and Weinfurt, Edward J., 3,670,139.
- Weinfurt, William J., to McGraw-Edison Company. Code transmitter having intermittent drive mechanism. 3,675,237, 7-4-72, Cl. 340-357.000.
- Weinfurter, Kurt: *See—*
Bruener, Erwin; Platz, Rolf; Taglieber, Kurt; and Weinfurter, Kurt, 3,657,375.
Bruener, Erwin; Platz, Rolf; Taglieber, Kurt; and Weinfurter, Kurt, 3,686,344.
Nagel, Otto; Platz, Rolf; Taglieber, Kurt; Weinfurter, Kurt; and Wolf, Dieter, 3,635,038.
- Weingarden, Marshall L. Cassette album. 3,640,379, 2-8-72, Cl. 206-1.
- Weingart, Norman C.: *See—*
Zdajys, John, Jr.; Kelter, William L., Jr.; and Weingart, Norman C., 3,643,046.
- Weingarten & Wong Enterprises, Inc.: *See—*
Wong, Edward, Jr., 3,660,933.
- Weingarten, Garry: *See—*
Weinssens, John; Carrazza, James A.; Hoerter, John; Kaye, Seymour M.; and Weingarten, Garry, 3,645,208.
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Maddox, William Joseph; and Weingarten, Morris Robert, 3,636,836.
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- Weingartner, Bernhard A.: *See—*
Fidi, Werner; and Weingartner, Bernhard A., 3,662,292.
- Weingartner, Ernst F.: *See—*
Samietz, Klaus P.; Wamser, Anton; and Weingartner, Ernst F., 3,665,084.
- Weinhardt, Robert A.: *See—*
Porter, Harry B.; and Weinhardt, Robert A., 3,640,484.
- Weinhart, Maurice. Safety bed slat bracket. 3,657,748, 4-25-72, Cl. 5-238.000.
- Weinhart, Rudolf: *See—*
Leslie, Warren A.; and Weinhart, Rudolf, 3,660,713.

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Haberhauer, Karl; and Haberhauer, Hertha, 3,664,380.
- Weinheimer, James A. Spinning piston engines and system and process of operation. 3,638,623, 2-1-72, Cl. 123-45.
- Weinhold, Gottfried: *See—*
Hirt, Wilhelm; Lehnerdt, Hagen; Weckesser, Ernst; Weinhold, Gottfried; and Wrigge, Friedrich Wilhelm, 3,673,074.
- Weining, Andrew. Wheel dressing fixture. 3,682,153, 8-8-72, Cl. 125-11.000.
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- Weinkle, Milton L. Prefabricated denture construction and method. 3,644,996, 2-29-72, Cl. 32-2.
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Schoch, Robert, 3,643,295.
- Weinmann, Karl, to KAMAG Transporttechnik GmbH, & Co. Articulated vehicles. 3,698,582, 10-17-72, Cl. 214-506.000.
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Schmidt, Alfred; Weinrotter, Ferdinand; and Muller, Walter, 3,652,209.
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Siconolfi, James R., 3,633,097.
Sorgor, Gunther U., 3,693,078.
- Weinschenker, Ned M.; and Andersen, Niels H., to Alza Corporation. Process for producing substituted cyclopentadienes. 3,689,569, 9-5-72, Cl. 260-611.00r.
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Sagi, Zsigmond; and Weinstein, Berel, 3,665,770.
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Corey, Garland G.; and Weinstein, Bernard, 3,661,789.
Corey, Garland G.; and Weinstein, Bernard, 3,671,439.
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- Weinstock, Martin: *See—*
De Clerk, Joseph L.; and Weinstock, Martin, 3,657,534.
- Weintraub, Lester: *See—*
Rhum, David; and Weintraub, Lester, 3,651,020.
- Weintraub, Marvin H.: *See—*
Rich, James L.; and Weintraub, Marvin H., 3,647,744.
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Weinz, Ernst A., 3,650,074.
- Weir, Clifford L.: *See—*
Josephsen, Roy C.; and Weir, Clifford L., 3,694,529.
- Weir, Dallas M., Jr.: *See—*
Holdsworth, John E.; and Weir, Dallas M., Jr., 3,698,838.
- Weir, Dennis Douglas. Egg carton. 3,672,693, 6-27-72, Cl. 229-44.00r.
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- Weir, Donald Robert: *See—*
Evans, David J. I.; and Weir, Donald Robert, 3,674,465.
Vosahlova, Eva A.; and Weir, Donald Robert, 3,644,114.
Zubryckij, Nicolas; Mackiw, Vladimir Nicolaus; and Weir, Donald Robert, 3,640,706.
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Helm, Herbert W.; and Weir, Edgar V., 3,656,036.
Helm, Herbert W.; and Weir, Edgar V., 3,657,825.
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Brewer, William B., 3,682,212.
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Ryall, Michael Leslie; Pezzani, Guido; and Bocking, Albert, 3,692,426.
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Mercade, Venacio; and Weir, Samuel R., 3,635,337.
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- Weir Water Treatment Limited: *See—*
Emmett, James Ratcliffe, 3,687,843.
- Weirauch, Kurt: *See—*
Senge, Ferdinand; Weirauch, Kurt; and Bottenbruch, Ludwig, 3,670,051.
- Vernaleken, Hugo; Court, Otto; and Weirauch, Kurt, 3,674,740.
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Roberts, Henry; Weirgin, Arthur R.; and Scala, Richard V., 3,649,756.
- Weiry Westgarth Limited: *See—*
Silver, Robert Simpson, 3,684,662.
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Smisman, Edward Ervin; and Weis, James Allen, 3,646,208.
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Sly, Thomas L.; Weis, Joseph A.; and Leto, Joseph T., 3,643,164.
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Gislon, Andre; Weisang, Joseph Edouard; and Maurin, Jean, 3,665,047.
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Gordon, Maxwell; and Weisbach, Jerry A., 3,632,627.
Pfeiffer, Francis R.; and Weisbach, Jerry A., 3,671,557.
Pfeiffer, Francis R.; and Weisbach, Jerry A., 3,671,563.
Pfeiffer, Francis R.; and Weisbach, Jerry A., 3,678,137.
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Bilinski, Donald J.; and Weisbord, Leon, 3,700,289.
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Butler, Henry G.; and Weise, Irvin B., 3,651,903.
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Lasky, Daniel J.; and Weisel, Harold C., 3,666,648.
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Bernstein, Jack; Diassi, Patrick Andrew; and Weisenborn, Frank Lee, 3,668,198.
Narayanan, Venkatachala Lakshmi; Hauck, Frederic Peter; and Weisenborn, Frank Lee, 3,642,869.
Narayanan, Venkatachala Lakshmi; Setesack, Linda Louise; and Weisenborn, Frank Lee, 3,668,206.
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Schwieter, Ulrich; Thommen, Hans; and Weiser, Harald, 3,681,082.
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Keyes, Robert W.; and Weiser, Kurt, 3,642,544.
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Ackerman, Joseph Francis; Weisfeld, Joseph; Savageau, Robert George; and Beerli, George, 3,673,140.
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- Weisfeld, Lewis B., to Cincinnati Milacron Chemicals Inc. Halogenated resins stabilized with novel compositions. 3,640,950, 2-8-72, Cl. 260-45.75.
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Flieder, Robert A.; and Weisglass, Louis L., 3,681,613.
- Weishaupt, Max, GmbH: *See—*
Brodlin, Wilhelm Genannt Willi; and Weishaupt, Siegfried, 3,693,887.
- Weishaupt, Siegfried: *See—*
Brodlin, Wilhelm Genannt Willi; and Weishaupt, Siegfried, 3,693,887.
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Bergerhoff, Gunter; Tihanyi, Bela; Falbe, Jurgen; Weber, Jurgen; and Weisheit, Werner, 3,681,477.
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- Weisman, Irving, to Interstate Container Corporation. Display container. 3,651,928, 3-28-72, Cl. 206-45.14.
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Glawleschko, Basilius; Krieg, Gebhard; Weidmann, Wolfgang; and Weiss, Adolf, 3,660,691.
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Schroeder, Duane Arthur; Weiss, Alvin Dennis; and Giltner, Benedict Clare, 3,673,117.
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Frick, Wilhelm Ernst; Weiss, Anton G.; Wenger, Thomas; and Traber, Walter, 3,673,209.
Traber, Walter; and Weiss, Anton G., 3,634,484.
Traber, Walter; and Weiss, Anton G., 3,637,790.
Traber, Walter; and Weiss, Anton G., 3,681,249.
Traber, Walter; and Weiss, Anton G., 3,689,665.
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Kivlen, John A.; Struth, Bert W.; and Weiss, Clifford P., 3,641,190.
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Roeschlein, Eugene R.; Weiss, Donald C.; and Zeph, David L., 3,656,096.
Roeschlein, Eugene R.; Weiss, Donald C.; and Zeph, David L., 3,704,364.
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Morley, Richard E.; Weiss, Eugene M.; Moline, Robert R.; and Greenberg, Michael P., 3,681,597.
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Isard, Arsene; and Weiss, Francis, 3,647,823.
Isard, Arsene; and Weiss, Francis, 3,654,311.
Isard, Arsene; and Weiss, Francis, 3,676,465.
Isard, Arsene; and Weiss, Francis, 3,678,102.
Lakodey, Andre; and Weiss, Francis, 3,636,164.
Lakodey, Andre; and Weiss, Francis, 3,647,897.
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- Weiss, Gunter: *See—*
Schruff, Horst; Lehmann, Helmut; Siefen, Jakob; Mathner, Hermann; Adams, Willi; and Weiss, Gunter, 3,700,531.
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- Weiss, Hubert L. Hinge structure for electric power distribution box or the like. 3,641,623, 2-15-72, Cl. 16-149.
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- Weiss, Irving F., to ECP Manufacturing Co. Wireway structure. 3,705,949, 12-12-72, Cl. 174-101.000.
- Weiss, Irwin K.: *See—*
Keppel, Charles M.; and Weiss, Irwin K., 3,680,883.
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- Weiss, Kurt, to Sulzer Brothers Limited. Wet cylinder liner for piston-type internal combustion engines. 3,661,135, 5-9-72, Cl. 123-193.
- Weiss, Leopold. Exhaust noise silencer. 3,690,406, 9-12-72, Cl. 181-36.00b.
- Weiss, LeRoy. Adjustable pallet. 3,695,187, 10-3-72, Cl. 108-54.000.
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Poletto, John Frank; Allen, George Rodger, Jr.; and Weiss, Martin Joseph, 3,646,053.
Poletto, John Frank; Allen, George Rodger, Jr.; Littell, Ruddy; and Weiss, Martin Joseph, 3,686,213.
Remers, William Alan; and Weiss, Martin Joseph, 3,652,585.
Remers, William Alan; and Weiss, Martin Joseph, 3,652,592.
Remers, William Alan; and Weiss, Martin Joseph, 3,654,303.
Remers, William Alan; Gibs, Gabriel Joseph; and Weiss, Martin Joseph, 3,700,684.
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Weiss, Bruno; and Weiss, Richard, 3,651,650.
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Thompson, Quentin E.; Reid, Stanley L.; and Weiss, Richard W., 3,684,711.
- Weiss, Robert L.: *See—*
Watts, Robert Z.; and Weiss, Robert L., 3,696,341.
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- Weiss, Stanley Marian. Cultivating implements. 3,690,385, 9-12-72, Cl. 172-604.000.
- Weiss, Viktor, to Osterreichisch-Amerikanische Magnesit Aktien-gesellschaft. Mechanical classifier. 3,645,397, 2-29-72, Cl. 209-464.
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Waaben, Sigurd Gunther; and Weiss, Walter Ira, 3,701,119.
- Weissbach, Peter: *See—*
Christ, Wilhelm; and Weissbach, Peter, 3,679,357.
- Weissbein, Leonard; and O'Brien, Samuel James, to American Cyanamid Company. Attenuation of thermal radiation with phototropic dyes. 3,679,351, 7-25-72, Cl. 8-50.000.
- Weissberg, Ernest. Emergency evacuation means for ski chairlifts. 3,674,111, 7-4-72, Cl. 182-72.000.
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Dietrich, Hans; and Weisse, Peter, 3,631,594.
- Weissel, Oskar: *See—*
Tacke, Peter; Binsack, Rudolf; and Weissel, Oskar, 3,673,123.
- Weisselberg, Edward B.; Worden, George M., Sr.; Lamp, William F.; and Lane, Alexander M., to Wyssmont Company, Inc. Nondusting, high temperature dryer. 3,681,855, 8-8-72, Cl. 34-173.000.
- Weissenberg, Bruno, to Wood Industries, Inc., mesne. Indexing fixture. 3,638,527, 2-1-72, Cl. 90-57.
- Weissenburger, Helmut Wilhelm Otto, to Koninklijke Nederlandsche Gist-en Spiritusfabriek N.V. Imino compounds of penicillins and silyl esters thereof. 3,676,429, 7-11-72, Cl. 260-239.100.
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Weissenburger, Helmut Wilhelm Otto, 3,699,096.
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Junger, Hans; and Weissenfels, Franz, 3,694,387.
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Oelmann, Peter; and Weissshuhn, Peter, 3,640,522.
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- Weissman, Bernard. Dental anchor. 3,675,328, 7-11-72, Cl. 32-15.000.
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- Weissman, Joel J. Blank for constructing solid forms. 3,666,607, 5-30-72, Cl. 161-44.000.
- Weissmann, Jean: *See—*
Capdevielle, Pierre; and Weissmann, Jean, 3,695,289.
- Weissohn, Karl-Helmut, to Matthias Ludwig Industrieofenbau GmbH. Furnace installation with commutative control system. 3,633,820, 1-11-72, Cl. 236-46.
- Weist, Edward Landis: *See—*
Demler, Henry William, Sr.; and Weist, Edward Landis, 3,640,552.
- Weist, Martin; and Busing, Walter, to Farbenfabriken Bayer Aktien-gesellschaft. Circuit arrangement for indicating and automatically eliminating short-circuits in electrolysis cells. 3,644,190, 2-22-72, Cl. 204-228.
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Schumacher, Ferdinand; Weiste, Heinrich; and Weiste, Helmut, 3,656,661.
- Weiste, Heinrich. Apparatus for distributing and spreading material. 3,631,825, 1-4-72, Cl. 111-11.
- Weiste, Helmut: *See—*
Schumacher, Ferdinand; Weiste, Heinrich; and Weiste, Helmut, 3,656,661.
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Gorgei, Donald J.; Weisz, Daniel I.; and Cooper, Russell B., 3,656,607.
- Weisz, Herman S.: *See—*
Hardwicke, James E.; Scheffler, Bernard; and Weisz, Herman S., 3,647,734.
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Frenkel, Jean-Mathieu; Logerot, Jean-Marie; Petrequin, Pierre; Syre, Robert; and Weisz, Michel, 3,685,988.
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Tuba, Zoltan; Bor, Maria, nee Szabo; Komesz, Zoltan; Weitner, Eva, nee Vari; and Gorog, Sandor, 3,705,150.
- Weits, Ferdinand: *See—*
Zwiep, Theodore C.; Marcus, Konrad H.; and Weits, Ferdinand, 3,657,771.
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Schloemer, Karl; Nagel, Otto; Platz, Rolf; and Weitz, Hans Martin, 3,657,374.
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Grobe, Friedrich; and Weitze, Artur, 3,634,807.
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- Weitzsch, Fritz, to U.S. Philips Corporation. Circuit arrangement for colour point adjustment. 3,689,689, 9-5-72, Cl. 178-5.20r.

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Fraser, Robert William; Kushnir, Bud William; and Weizenbach, Bauke, 3,692,596.
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Muller, Fritz; Stendenbach, Karl-Heinz; and Weizenkorn, Horst-Heinrich, 3,684,461.
- Welbourn, Dale K. Magnetically actuable projectile and target game. 3,653,662, 4-4-72, Cl. 273-95.
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Moore, William C.; and Pilgrim, William S., 3,698,387.
- Welch, Archibald H., to Converters Incorporated. Method and apparatus for fan-folded stacking. 3,674,254, 7-4-72, Cl. 270-79.000.
- Welch, Clark M.: See—
Vigo, Tyrone L.; Margavio, Matthew F.; and Welch, Clark M., 3,698,857.
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- Welch, Dean E.; and Baron, Robert Richard, to Salsbury Laboratories. Nitro-trifluoromethyl-benzanilides. 3,689,556, 9-5-72, Cl. 260-558.00p.
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- Welch, Floyd T.: See—
Wadsworth, Francis T.; Newcombe, Jack; and Welch, Floyd T., 3,652,640.
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- Welch, James Ernest: See—
Eastcott, Peter de Hertel; and Welch, James Ernest, 3,698,750.
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Kostenbauer, Ronald F.; and Welch, James P., 3,705,398.
- Welch, Jay V.: See—
Roberts, James E.; Miller, Roy L.; Welch, Jay V.; and Barrow, Ralph E., 3,651,934.
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Kolm, Ernest L.; Schwartz, Roger P.; and Welch, John A., 3,650,184.
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- Welch, Louis S., to Hall, M. Lewis, Sr. Water conditioning method and apparatus. 3,653,182, 4-4-72, Cl. 55-53.
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Shipp, John I.; Welch, Nathan E.; and Broadbent, Thomas D., 3,643,101.
- Welch, Paul E.: See—
Brink, Robert M.; and Welch, Paul E., 3,645,613.
- Welch, Philip Craig, to Modular Systems, Inc. Coupling member. 3,645,162, 2-29-72, Cl. 85-4.
- Welch, Phillip Craig, to Modular Systems, Inc. Booth construction. 3,634,983, 1-18-72, Cl. 52-36.
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- Welch, Stanley B.; and Dills, Raymond L., to General Electric Company. Induction surface heating unit system. 3,684,853, 8-15-72, Cl. 219-10.490.
- Welch, Vergil B., Jr., to Grace, W. R., & Co. Magnetically securable printing plate. 3,670,646, 6-20-72, Cl. 101-382.0mv.
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Ebergardt, Thomas; and Welch, William H., 3,655,083.
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- Weld Tooling Corporation: See—
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- Weld-Motion, Inc.: See—
Geroald, David S., 3,675,837.
- Weld-Record Corporation: See—
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- Weldel, Helmut: See—
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- Welden, David P. Masonry saw. 3,656,468, 4-18-72, Cl. 125-13.
- Weldes, Helmut H.: See—
Sams, Robert H.; Linton, Robert W.; and Weldes, Helmut H., 3,687,640.
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- Welding Institute, The: See—
Ellis, Colin R. G.; and Lilly, Rodger H., 3,678,566.
- Hannah, Malcolm D., 3,632,957.
- Needham, James C.; Johnson, Keith I.; and Wright, John A., 3,637,971.
- Weldle, Helmut: See—
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- Weldotron Corporation: See—
Zelnick, Seymour; and Wildmoser, Martin Michael, 3,640,048.
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- Welford, Gordon D.; and Kelley, Buster E., to United States of America, Army. Missile proportional navigation system using fixed seeker. 3,706,429, 12-19-72, Cl. 244-3.190.
- Welford, Walter T., to Harriers Electronics Corporation. Facetted correction lens for minimizing keystoneing of off-axis projectors. 3,634,617, 1-11-72, Cl. 178-5.4.
- Welk, Horace B., Jr., to United States of America, Navy. Fluidic pressure indicator. 3,665,767, 5-30-72, Cl. 73-407.00r.
- Welke, Helmut: See—
Hoyer, Manfred; and Welke, Helmut, 3,682,019.
- Welker, Harry Logue, Jr.; and Burton, Michael Blaker. Automatics slush dispensing machine. 3,638,392, 2-1-72, Cl. 53-123.
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Wajarooff, Theodor, 3,654,936.
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- Wellbaum, William C.: See—
Briggs, Eugene C.; and Wellbaum, William C., 3,666,396.
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Patel, Arvindkumar M.; and Wellbrock, Anton G., 3,662,364.
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Colyer, John E., 3,682,162.
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- Wellendorf, Erwin W. Fold-up implement. 3,643,742, 2-22-72, Cl. 172-316.
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- Weller, Charles E., to Shell Oil Company. Directional filtering of seismic data. 3,689,873, 9-5-72, Cl. 340-15.5td.
- Weller, David Reis, to Bell Telephone Laboratories, Incorporated. Sample-and-hold circuit. 3,675,135, 7-4-72, Cl. 328-151.000.
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Plattner, Robert F.; Weller, Frank C.; and Staron, Edward, 3,687,059.
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- Weller, Wilhelm, to Messrs. Transporttechnik GmbH. Conveyor for shopping carts. 3,655,013, 4-11-72, Cl. 186-1.
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Korsgen, Hans Helmuth; and Weller, Wolfgang, 3,679,638.
- Welles, Albert W.: See—
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- Wellford, Walker L., Jr. Non-polluting waste reducer and method. 3,706,662, 12-19-72, Cl. 210-63.000.
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- Wellhausen, Heinz, to Blaupunkt-Werke GmbH. Tuning system for communication receivers storing predetermined tuning positions within the receiver frequency band. 3,671,870, 6-20-72, Cl. 325-470.000.
- Welling, Leroy U. C., to General Electric Company. Numerical fine-coarse positioning control system. 3,686,547, 8-22-72, Cl. 318-594.000.
- Wellinga, Kobus: See—
Daams, Jasper; and Wellinga, Kobus, 3,661,900.
- Handele, Martin Jacob; Kuipers, Johannes; and Wellinga, Kobus, 3,657,444.
- Wellings, Ian, to Du Pont de Nemours, E. I., and Company. 2-Amino-4,5,6,7-tetrahydro-4,7-ethanothieno [2,3-b]pyridines and pharmaceutically acceptable salts thereof. 3,644,379, 2-22-72, Cl. 260-294.8.
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- Wellington, Charles K.; Jung, Dietrich; and Kwasniewski, George A., to Viatron Computer Systems Corporation. Tape reel drive turntable. 3,666,193, 5-30-72, Cl. 242-68.3.
- Wellington Products, Inc.: See—
Weinstein, Albert, 3,664,189.
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Keady, Frederick D.; and Wellman, Ellis M., 3,672,728.
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- Wellman Industries, Inc.: See—
Johns, Herman S., 3,646,640.
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- Wellman, James W., Jr. Magnetic clutch coupling for monitoring shaft rotation. 3,675,170, 7-4-72, Cl. 335-207.000.
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United States of America, National Aeronautics and Space Administration, 3,700,005.
- Wellman-Lord, Inc.: See—
Miller, Leo A.; Taylor, James A.; and Willard, Thomas M., 3,649,182.
- Parish, William R.; and Kelley, James C., 3,645,678.
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Terrana, Jack D.; and Miller, Leo A., 3,687,623.
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- Wellnitz, Gregory L., to Universal Oil Products Company. Ashtray with use indicator. 3,640,286, 2-8-72, Cl. 131-235.
- Wellnitz, Jerry N.; and Dummer, Richard S., to Rohr Industries, Inc. Infrared concentrating emitter. 3,702,391, 11-7-72, Cl. 219-553.000.
- Wells, Alton R. Thermostat or the like having twisted bimetal strip therein. 3,656,080, 4-11-72, Cl. 337-111.
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Honey, Francis J.; and Wells, Frank D., 3,689,917.
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- Wells, George H.; and Persons, Perry B., to Technology Marketing, Incorporated. Bipolar current switching system. 3,660,829, 5-2-72, Cl. 340-174.0tb.
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Shayler, Victor James; and Wells, Gordon Arthur Leslie, 3,657,401.
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- Wells, Howard E. Continuous molding apparatus. 3,700,368, 10-24-72, Cl. 425-115.000.
- Wells, Jan R., to Wells, W. F., and Sons, Inc. Sensor for determining band saw blade deflection. 3,680,417, 8-1-72, Cl. 83-74.000.
- Wells, Joe S.; deceased (by Wells, Mary Lou; executrix). Tool depth control adjustment. 3,664,756, 5-23-72, Cl. 408-202.
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- Wells, John B., to Xerox Corporation. Image density control in photoelectrophoretic imaging. 3,645,874, 2-29-72, Cl. 204-181.
- Wells, John B., to Xerox Corporation. Photoelectrophoretic imaging method employing a halogen containing suspension. 3,647,660, 3-7-72, Cl. 204-181.
- Wells, John L., to Explosive Technology, Inc. Safe-armed explosive initiation device. 3,657,958, 4-25-72, Cl. 89-1.
- Wells, John Lee: See—
Stubblefield, Charles David; and Wells, John Lee, 3,650,475.
- Wells Lamont Corporation, mesne: See—
Conklin, Clayton E.; Ledesma, Antonio, Jr.; and Bautista, Moises R., 3,656,669.
- Wells Manufacturing Company: See—
Wells, Milton K.; and Hedberg, Arthur S., 3,672,441.
- Wells Manufacturing Corporation: See—
Alexander, Carl J., 3,643,536.
- Evans, David T., 3,673,903.
- Wells, Mary Lou: See—
Wells, Joe S., 3,664,756.
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- Wells, Robert A.; and Strobe, Carl J., to SMW Atlanta, Inc., mesne. Easy-opening containers. 3,674,172, 7-4-72, Cl. 220-54.000.
- Wells, Robert C.: See—
Brenneman, Richard S.; Clancy, John J.; Macleish, William T.; and Wells, Robert C., 3,637,431.
- Wells, Robert R., to Northrop Corporation. Thin-film diffusion brazing of nickel and nickel base alloys. 3,675,311, 7-11-72, Cl. 29-498.000.
- Wells, Robert R., to Staco-Switch, Inc. Linear solenoid and inverter. 3,697,858, 10-10-72, Cl. 321-18.000.
- Wells, Rodney L.; Ulmer, Harry E.; and Mason, Paul J., to Allied Chemical Corporation. Substituted s-triazine formaldehyde adducts useful as herbicides. 3,697,249, 10-10-72, Cl. 71-93.000.
- Wells, Rodney W. S.: See—
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- Wells, Samuel G., to Teledyne, Inc. Folding bed arrangement. 3,673,618, 7-4-72, Cl. 5-164.000.
- Wells, Sylvan O., to Kenwal Machine Company, Inc. Double head notching machine. 3,664,394, 5-23-72, Cl. 144-133.
- Wells, W. F., and Sons, Inc.: See—
Wells, Jan R., 3,680,417.
- Wells, Wallace N. Lure retriever. 3,693,277, 9-26-72, Cl. 43-17.200.
- Wells, Wallace Ogden: See—
Grafteo, Joseph Victor, Jr.; Mason, Bertran W., Jr.; and Wells, Wallace Ogden, 3,664,948.
- Wells, Wallace Ogden, to Texas Instruments, Incorporated. Slice conveyor furnace. 3,638,927, 2-1-72, Cl. 263-6.
- Wells, Warren W., to United States of America, Army. Extractor and bolt mechanism for firearm firing caseless ammunition. 3,641,692, 2-15-72, Cl. 42-25.

- Wells, Willard H., to Tetra Tech, Inc. Holographic imaging system using crossed linear arrays of energy sources and sensors. 3,685,051, 8-15-72, Cl. 343-17.000.
- Welman, William L.: *See—*
Fenner, John A.; and Welman, William L., 3,651,567.
- Welsbach Corporation, The: *See—*
Werring, Francis W., 3,650,662.
- Welsch, Bernhard J.; and Schafer, James A., to Western Gear Corporation. Tape tension web winding machine. 3,701,493, 10-31-72, Cl. 242-75.530.
- Welsch, George A., Jr.: *See—*
Cutton, John G.; and Welsch, George A., Jr., 3,634,073.
- Welschhof, Hans-Heinrich: *See—*
Geisthoff, Hubert; Welschhof, Hans-Heinrich; and Grosse-Entrup, Hubert, 3,703,089.
- Welsh, Alan B.; and West, Roger T., to Jasper Electronic Mfg. Corporation. Tape controlled automatic machine, especially for printed circuit boards. 3,663,114, 5-16-72, Cl. 408-3.
- Welsh, Clarence E.: *See—*
Rohde, Robert P.; Welsh, Clarence E.; and Engelhardt, Hans, 3,674,385.
- Welsh, Clarke T.; and Brumett, Billy M. Self-cleaning air filter. 3,670,478, 6-20-72, Cl. 55-242.
- Welsh Corporation, The: *See—*
Myers, Clifford E., 3,682,675.
- Welsh, David Martin, to Canadian Safety Fuse Company Limited. Manufacture of detonating fuse cord. 3,698,280, 10-17-72, Cl. 86-1.00r.
- Welsh, James W.; and Alder, Fred, to Standard Motor Products, Inc. Heating device for electrical actuation. 3,657,518, 4-18-72, Cl. 219-536.000.
- Welsh, Jay Y., to Diamond Shamrock Corporation. Process for making anhydrous metal acetates. 3,637,776, 1-25-72, Cl. 260-429.
- Welsh, Luther: *See—*
Hoyt, Edwin D.; and Welsh, Luther, 3,674,982.
- Welsh Manufacturing Company: *See—*
Newcomb, William E., 3,633,214.
- Welsh, Norman C. Replaceable blade unit for a safety razor. 3,660,893, 5-9-72, Cl. 30-50.
- Welsh, Robert Louis, to Omak Industries, Inc. Electrical utility box. 3,673,310, 6-27-72, Cl. 174-58.000.
- Welstead, William John, Jr.: *See—*
Lunsford, Carl Dalton; Welstead, William John, Jr.; and Helsley, Grover Cleveland, 3,651,085.
- Welstead, William John, Jr.; and Helsley, Grover Cleveland. 1-(Omega-substituted-alkyl)-2-methylbenzimidazoles. 3,634,441, 1-11-72, Cl. 260-296.
- Welstead, William John, Jr., to Robins, A. H., Company, Incorporated. 3-(Omega-substituted alkyl)-indoles. 3,642,803, 2-15-72, Cl. 260-294.7.
- Welstead, William John, Jr., to Robins, A. H., Company, Incorporated. Alkyl 1,1a,2,6b-tetrahydrocycloprop[b] indole 1-carboxylates and acids. 3,654,304, 4-4-72, Cl. 260-326.3.
- Welstead, William John, Jr., to Robins, A. H., Company, Incorporated. 1-(4-Phenyl-1-piperiziny methyl) cyclopropa[a] naphthalenes and cyclopropa[a]indenes. 3,666,761, 5-30-72, Cl. 260-268.0tr.
- Welter, Clarence J.; and Ristic, Miodrag, to Diamond Laboratories, Inc. Anaplasmosis vaccines. 3,674,860, 7-4-72, Cl. 424-88.
- Welter, Clarence J., to Diamond Laboratories, Inc. Transmissible gastroenteritis vaccines and methods of producing the same. 3,704,203, 11-28-72, Cl. 195-1.300.
- Welter, Gary D., to Omak Industries, Inc. Apparatus for continuous electroplating. 3,649,507, 3-14-72, Cl. 204-202.
- Welter, Jeff R., to Hanna, Daniel C. Brush construction. 3,694,844, 10-3-72, Cl. 15-182.000.
- Welter, Leonard M.: *See—*
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- Welter, Matthew I. Board game apparatus. 3,684,287, 8-15-72, Cl. 273-131.00k.
- Welther, Robert S., to TRW Inc. Spacecraft for deploying multiple objects. 3,652,042, 3-28-72, Cl. 244-1.
- Welton, Derek Edwin, to Waso Limited. Combined abrading, scraping and poking implement. 3,670,459, 6-20-72, Cl. 51-181.00r.
- Weltronic Company: *See—*
Mann, Charles G., 3,638,191.
- Markey, James F., 3,660,693.
- Welty, Albert B.: *See—*
Griffin, Lindsay I., Jr.; and Welty, Albert B., 3,645,671.
- Welty, Albert B., Jr.: *See—*
Griffin, Lindsay I., Jr.; and Welty, Albert B., Jr., 3,695,829.
- Welty, Albert B., Jr., to Esso Research and Engineering Company. Process for decomposing ammonium sulfate into ammonium bisulfate and ammonia. 3,674,427, 7-4-72, Cl. 23-119.000.
- Welty, Albert B., Jr. Sulfate control in ammonia flue gas desulfurization. 3,676,059, 7-11-72, Cl. 23-2.000.
- Welty, Joseph M.; Shiot, Philip; and Murray, Roger W., to Teledyne, Inc. Flip chip integrated circuit and method therefor. 3,636,619, 1-25-72, Cl. 29-591.
- Welty, Lloyd G. Frictional self-draining structure. 3,690,227, 9-12-72, Cl. 94-33.000.
- Welty, Richard O.: *See—*
Thornhill, William J.; and Welty, Richard O., 3,649,842.
- Welvo N.V.: *See—*
Van Elten, Gerrit J., 3,649,291.
- Welwyn Canada Limited: *See—*
Martin, John P.; Beninger, Darrell J.; and Lemon, John R., 3,675,317.
- Marton, John P., 3,676,213.
- Welwyn Electric Limited: *See—*
Pey, Walter Arnold, 3,680,013.
- Welz, Bernhard: *See—*
Braun, Klaus; Manthey, Kurt; and Welz, Bernhard, 3,702,219.
- Welz, Rudolf. Socket wrenches. 3,661,041, 5-9-72, Cl. 81-98.
- Welz, Rudolf. Attachment for rakes. 3,678,670, 7-25-72, Cl. 56-400.140.
- Welz, Rudolf. Emergency trackage for vehicle wheels. 3,701,474, 10-31-72, Cl. 238-14.000.
- Welze, Gerhard: *See—*
Stephan, Rudolf; Welze, Gerhard; Reinhard, Hans; and Frank, Hans-Ulrich, 3,635,776.
- Welzel, Fred H.: *See—*
Daily, William C.; and Welzel, Fred H., 3,641,735.
- Daily, William C.; and Welzel, Fred H., 3,680,854.
- Welzel, Gerhard: *See—*
Reinhard, Hans; Welzel, Gerhard; Frank, Hans-Ulrich; and Stephan, Rudolf, 3,657,031.
- Welzel, Herbert, to Kombinat VEB Pentacon Dresden Kamera- und Kinowerke. Film winding apparatus for cameras. 3,648,586, 3-14-72, Cl. 95-31.
- Wemac Company: *See—*
Kallel, Allen; and Gowing, Arthur F., 3,690,244.
- Weman, Per Olaf, to Sigmatex AG. Fastening for the loop of a three-point safety belt in motor vehicles. 3,698,048, 10-17-72, Cl. 24-241.00p.
- Wemmers, Anton: *See—*
De Boer, Henri G. J.; Brooshooft, Thomas; and Wemmers, Anton, 3,704,129.
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- Wen, Cheng Paul, to RCA Corporation. Symmetrical trough waveguide antenna array. 3,653,054, 3-28-72, Cl. 343-772.
- Wen, Cheng Paul, to RCA Corporation. Microwave hybrid comprising trough waveguide and balanced mixer utilizing same. 3,654,556, 4-4-72, Cl. 325-446.
- Wen, Chin-Yung: *See—*
Wolnak, Bernard; Andreen, Brian; and Wen, Chin-Yung, 3,649,459.
- Wenckus, Joseph F.: *See—*
Castonguay, Roger A.; Hanley, Bernard C.; Mallahan, Francis J.; and Wenckus, Joseph F., 3,639,718.
- Haggerty, John S.; and Wenckus, Joseph F., 3,704,093.
- Wenckus, Joseph F., to Little, Arthur D., Inc. Apparatus for growing crystals in plate form. 3,697,228, 10-10-72, Cl. 23-273.00v.
- Wendel, Samuel R.: *See—*
Gornowicz, Gerald A.; and Wendel, Samuel R., 3,660,454.
- Wendel, Samuel R., to Dow Corning Corporation. Method of preparing silyl alcohols. 3,691,222, 9-12-72, Cl. 260-448.0ze.
- Wendel, Wolfram: *See—*
Hellbarth, Heinz; Wendel, Wolfram; and Schulz, Alfred, 3,646,449.
- Wendland, Gertrud. Multi-purpose holder for bottles. 3,638,893, 2-1-72, Cl. 248-312.
- Wendlberger, Gerhard: *See—*
Wunsch, Erich; and Wendlberger, Gerhard, 3,642,763.
- Wendler, Charles F.; and Baum, Charles S., to Permanence Corporation. Heat resistant high strength composite structure of hard metal particles in a matrix, and methods of making the same. 3,684,497, 8-15-72, Cl. 75-203.000.
- Wendler, Gerhard Hermann; and Minet, Gunther Heinz, to Teroson Werke G.m.b.H. Film for protecting a vehicle bottom plate. 3,660,347, 5-2-72, Cl. 117-8.
- Wendler, Guenther, to Baumweller, Adam, GmbH Fabrik fur Elektrotechnik. Automatically adjustable single disc brake for motors. 3,665,231, 5-23-72, Cl. 310-77.
- Wendler, Kenneth T.: *See—*
Daniels, David A.; and Wendler, Kenneth T., 3,701,730.
- MacPhail, Alexander C. B.; Lauck, John E.; and Wendler, Kenneth T., 3,634,239.
- Wendler, Norman L.: *See—*
Pollak, Peter I.; Wendler, Norman L.; and Christensen, Burton G., 3,649,619.
- Pollak, Peter I.; Wendler, Norman L.; and Christensen, Burton G., 3,652,739.
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- Wendricks, Roland Norbert, to American Can Company. Extruder mixing screw. 3,676,034, 7-11-72, Cl. 425-208.000.

- Fleming, Robert W.; Wenstrup, David L.; and Andrews, Edwin R., 3,692,907.
- Wentcroft Engineerings Limited: *See—*
Franklin, Kenneth Winston, 3,657,860.
- Wenther, Joseph F.: *See—*
Crawford, Gerald R.; and Wenther, Joseph F., 3,701,617.
- Wentworth, Hobart L.: *See—*
Seelandt, Karl H.; and Wentworth, Hobart L., 3,705,711.
- Wentworth, Ralph L.; and Armstrong, Glenn K., to Dynatech Corporation. Method of making carbonated beverages. 3,687,684, 8-29-72, Cl. 99-79.000.
- Wentworth, Rick: *See—*
Smiley, William D.; and Esler, Jack J. (said Esler assor. to said), 3,633,918.
- Wentz, Edward C.: *See—*
Conner, Edmond E.; and Wentz, Edward C., 3,686,600.
- Wentz, John L., to Westinghouse Electric Corporation. Light beam polarization modulator. 3,684,350, 8-15-72, Cl. 350-150.000.
- Wenz, Herbert: *See—*
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Atkin, Wesley H., 3,664,090.
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Kehr, Clifton L.; Wszolek, Walter R.; and Werber, Frank X., 3,666,461.
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Datye, Keshav V.; Milicevic, Branimir; and Werdenberg, Hermann, 3,666,397.
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Carlson, Peter T.; Weremey, Frederick J.; and Mitchell, Edward B., 3,662,288.
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Morf, Max; Wenger, Markus; and Feisst, Jutta, 3,679,621.
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Leonard, John; and Wenger, Martin S., Jr., 3,631,704.
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Frick, Wilhelm E.; Harle, Horst; and Wenger, Thomas, 3,705,944.
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Kray, Raymond J.; Tetenbaum, Marvin T.; Wenner, Wilbert M.; and Barton, Oliver A., 3,639,326.
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Nilsson, Marit Gunnel Matilda; Udden, Ruth Gunvor Anna Britt; Udden, Per Edward Carl; and Wennerblom, Bengt Axel, 3,654,929.
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Holes, William W.; and Wenstrom, Roger A., 3,669,555.
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Haas, Herbert G.; Munk, Edmund; Fink, Alfred; and Klink, Erich, 3,663,137.
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Bayless, Robert G.; Shank, Charles P.; Botham Ruth A.; and Werkmeister, Dennis W., 3,674,704.
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Veld, Willem In T., 3,657,105.
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Boehm, Otto; and Scholz, Werner, 3,703,214.
- Werkzeugmaschinenfabrik Adolf Waldrich Coburg: *See*—
Briesofsky, Gunter, 3,683,744.
- Ladewig, Gerhard, 3,653,159.
- Neugebauer, Heinz, 3,659,474.
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- Von Den Hoff, Toni; and Weber, Ewald, 3,704,649.
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Ledergerber, Alfred; and Jacoby, Hans, 3,643,307.
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Ledergerber, Alfred; Jacoby, Hans; and Fenghler, Gerd, 3,686,986.
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Daume, Eduard; and Breitenmoser, Jurg, 3,669,924.
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- Keller, Siegfried, 3,655,246.
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- Mosli, Ernst; and Zurbuchen, Louis, 3,687,002.
- Muhleman, Ernst, 3,680,434.
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Hofmann-Igl, Ernest, 3,658,397.
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Schneider, Helmut E., 3,685,933.
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Barteleit, Ulrich; Regenscheit, Walter; Schroder, Helmut; and Wolf, Erich, 3,643,585.
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- Ocker, Herbert, 3,682,086.
- Ocker, Herbert, 3,688,837.
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Koch, Heinz; and Vohringer, Eugen Martin, 3,687,423.
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Reboullet, William C.; and Werner, David C., 3,633,819.
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Reuter, Gerhard; and Werner, Dietrich, 3,684,483.
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Leu, Francois J.; Tosin, Peter M.; and Werner, Ernst, 3,676,696.
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Spoelhof, John F.; De Witt, William L.; and Werner, Frank C., 3,633,489.
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Helmers, Helmut; Werner, Georg; and Rix, Albert, 3,664,480.
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Fink, Werner; Schlitz, Erwin; and Werner, Gunther, 3,652,137.
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Mandelkow, Dietrich; and Werner, Hugo, 3,645,789.
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Bauer, James J.; Werner, James L.; and Erickson, Leland E., 3,672,521.
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Arganbright, Ned H.; Koepnick, Paul J.; Nelson Carl T.; and O'Brien, Arthur F., 3,673,949.
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Koepnick, Paul J., 3,662,871.
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- Werner, Charles R., 3,669,587.
- Werner, Frank Charles, 3,689,280.

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Fraser, Hugh D.; and Werner, Leo C., 3,656,826.
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Rautenbach, Robert; Lutzeyer, Wolfgang; Werner, Udo; Lymberopoulos, Stravros; and Zimmerman, Hubert, 3,662,755.
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Mahl, Willy; and Werner, Walter, 3,683,748.
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Jakszt, Werner; Schiele, Gert; and Werner, Wolfgang, 3,665,255.
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Di Vita, Philip S.; Powers, Earl N.; and Werneth, Charles J., 3,641,509.
- Di Vita, Philip S.; Powers, Earl N.; and Werneth, Charles J., 3,646,579.
- Wernick, Jack Harry: *See*—
Bacon, Donald Dingley; Nesbitt, Ethan Allen; Sherwood, Richard Curry; and Wernick, Jack Harry, 3,676,867.
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Kotting, Fritz; and Gas, Gottfried, 3,665,659.
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Balke, Rodney Worth; Lynn, Robert Reed; and Wernicke, Rodney Keith, 3,698,663.
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Epstein, Paul; Cunningham, James; Wernikoff, Robert E.; and Rosen, George, 3,646,257.
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Wernli, Karl, 3,704,731.
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Holan, Leif A., 3,672,415.
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Carbonnel, Jack V.; Grammont, Paul D.; and Werotte, Louis E., 3,674,728.
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Hausler, Thomas; Werren, Heinz; and Eltschinger, Ernest, 3,707,274.
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Hartmann, Hans Joerg; Schnell, Georg; Werst, Gerhard; Gross-selinger, Horst; Hartmann, Job-Werner; and Bipp, Hansjoerg, 3,704,152.
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Weissmahr, Joseph A., 3,663,469.
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- Werth, Peter J., Jr.; and Di Napoli, Anthony R., to Upjohn Company, The. Process for producing isothiocyanates. 3,637,788, 1-25-72, Cl. 260-454.
- Wertheimer, Michael R.: *See*—
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- Wertman, Charles A. Liquid sprinkling systems. 3,650,470, 3-21-72, Cl. 239-1.
- Wertman, Louis, to Pic Design Corporation. Pivot linkage assembly kit. 3,679,809, 7-25-72, Cl. 35-13.000.
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Bartoe, Otto E., Jr.; Tucker, Virgil R.; and Wertz, Ronald D., 3,688,029.
- Wertz, William H.: *See*—
Smith, Lloyd M.; Scott, James B.; and Wertz, William H., 3,704,346.
- Wernzer, William F.; and Miller, James R., to Shell Oil Company. Lubricants containing oxidation inhibitors. 3,673,091, 6-27-72, Cl. 252-51.50r.
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Fazio, James A.; and Wesbey, William H., 3,674,931.
- Wescol Industries, Inc.: *See*—
Strain, William H.; and Moore, Peter G., 3,684,295.
- Wesch, Ludwig: *See*—
Meinke, Hans H.; Ullrich, Kurt; and Wesch, Ludwig, 3,680,107.
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Foulkes, John D.; and Bender, Warren G., 3,647,993.
- Wesemann, Fred A., to Consolidated Products Incorporated. Brush and rug scrubber. 3,685,081, 8-22-72, Cl. 15-50.00r.
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- Weser, Wilton C. Foldable sawhorse. 3,633,709, 1-11-72, Cl. 182-155.
- Wesker, Lew, to PIC Design Corporation. Solder tip set screw. 3,645,161, 2-29-72, Cl. 85-1.
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- Weslock, Ernest A., to Sturges Company, The. Ganging device. 3,669,491, 6-13-72, Cl. 297-248.000.
- Wesner, Charles R., to Sperry Rand Corporation. Turn heel limiting circuit. 3,676,648, 7-11-72, Cl. 235-150.200.

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Petit, Robert F.; and Wesnoskie, James F., 3,672,312.
- Wesp, George L., to Monsanto Company. Reinforced thermoplastic carboxy acid copolymer latex compositions. 3,649,582, 3-14-72, Cl. 260-29.6.
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Wagner, Karl; and Wesp, Horst, 3,638,344.
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- Wessel, Alfred H. Overhead door torsion spring adjusting tool. 3,651,719, 3-28-72, Cl. 81-63.2.
- Wessel, Erich: *See*—
Ehluss, Heinz-Gunter; and Wessel, Erich, 3,659,503.
- Wessel Hardware Corporation: *See*—
Lorincz, Eugene M., 3,640,106.
- Wessel, Karl-Heinz; and Sabadello, Erich, to Stubbe Maschinenfabrik GmbH, mesne. Method for injection molding of multi-layer soles of elastomers onto uppers of a shoe. 3,652,757, 3-28-72, Cl. 264-244.
- Wessel, Lars Anton, to AB Wikstrand & Berg. Arrangement in staying a telescopic tower by means of stay wires. 3,672,105, 6-27-72, Cl. 52-148.000.
- Wessel, Paul D.; and Nelson, Max A., to International, Inc. Time delay switch. 3,681,721, 8-1-72, Cl. 335-61.000.
- Wesselingh, Johannes A., to Shell Oil Company. Process for producing carboxylic acids and esters. 3,691,230, 9-12-72, Cl. 260-497.00.
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- Wessells, Forrest A.; and Gush, Donald P., to Grace, W. R., & Co. Method for ultrasonic etching of polymeric printing plates. 3,661,660, 5-9-72, Cl. 156-14.000.
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- Wesselmann, Rudolf: *See*—
Sennewald, Kurt; Wesselmann, Rudolf; Holler, Ernst; and Muller, Heinz, 3,702,887.
- Wessels, Johannes Hendrik: *See*—
Sluys, Robert Nestor Joseph; Wessels, Johannes Hendrik; and Van Den Busche, Willem, 3,700,798.
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- Wessely, Hermann, to Siemens Aktiengesellschaft. Electrical connector having a contact spring mounted in a housing cavity. 3,646,500, 2-29-72, Cl. 339-65.
- Wessenberg, Klaus: *See*—
Proglar, Max; Wessenberg, Klaus; Wagner, Winfried; and Ohn-sorge, Horst, 3,638,183.
- Wessendorf, Richard: *See*—
Nosler, Heinz Gunter; Wessendorf, Richard; and Bellinger, Horst, 3,668,135.
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- Wessinger, Lon H. Poultry-handling system. 3,706,300, 12-19-72, Cl. 119-15.000.
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Keppler, Hans-Georg; and Wesslau, Hermann, 3,666,704.
- Wessling, Bernard W.: *See*—
Epstein, Sheldon L.; and Wessling, Bernard W., 3,660,888.
- Wessling, Ritchie A.: *See*—
Gibbs, Dale S.; Wessling, Ritchie A.; and Wagener, Earl H., 3,637,432.
- Settinieri, William J.; and Wessling, Ritchie A., 3,649,483.
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- Wessling, Ritchie A.; and Zimmerman, Ray G., to Dow Chemical Company, The. Polysilylidene articles. 3,706,677, 12-19-72, Cl. 260-2.00.
- Wesson, Bobby Dean, 30% to White, Jeffrey Douglas. Bicycle side rack for surfboard. 3,659,761, 5-2-72, Cl. 224-39.
- Wesson, Jerry J.; and Boulter, Thomas W., to United States of America, Air Force. Two stage impact fuse. 3,678,859, 7-25-72, Cl. 102-76.00.
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- West, Allan L., to United States of America, Army. Drinking and resuscitation mask. 3,645,261, 2-29-72, Cl. 128-145.5.
- West, Ben F.: *See*—
Suris, Joseph P.; Bauer, David L.; and West, Ben F., 3,703,357.
- West Bridgford Machine Co., Limited: *See*—
Peet, James, 3,668,900.
- West, Charles A. Expandable building with telescoping enclosures and hingedly connected barriers. 3,653,165, 4-4-72, Cl. 52-67.
- West, Charles David, to Beckman Instruments, Inc. Apparatus for automatically performing the least squares approximation to the standard addition method of analysis. 3,655,958, 4-11-72, Cl. 235-151.35.
- West, Charles E., to Harowe Servo Controls, Inc. Rotary electrical device. 3,683,218, 8-8-72, Cl. 310-80.000.
- West, Charles L.: *See*—
McGovern, Louis J.; West, Charles L.; and Webb, Orlando, 3,665,050.
- West, Charles P.: *See*—
Esemplare, Pascal E.; and West, Charles P., 3,647,603.
- West, Charles T.: *See*—
Waywell, David R.; and West, Charles T., 3,699,180.
- West, Clarence F.: *See*—
West, Frederick P.; and West, Clarence F., 3,631,863.
- West, Clyde S. Occasional card. 3,638,343, 2-1-72, Cl. 40-124.1.
- West Coast Adhesives Company: *See*—
Brown, Elmer T.; and Carroll, Jackson H., 3,686,061.
- West Coast Industries, Inc.: *See*—
Dashew, Stephen S., 3,632,078.
- West Company, The: *See*—
Frazier, Thomas A., 3,650,270.
- Wimmer, Hans, 3,653,528.
- West Creek Co., Inc.: *See*—
Ehrlichmann, Merlin W., 3,651,777.
- Ehrlichmann, Merlin W., 3,693,610.
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- West, David H.; and Stone, Kenneth R., to Southwire Company. Cobble relief mechanism for rolling mill. 3,672,199, 6-27-72, Cl. 72-250.
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- West, Derek, to Flight Refueling Limited. Plugs and closures. 3,653,410, 4-4-72, Cl. 138-89.
- West, Ernest: *See*—
Swanwick, Barry Frederick; West, Ernest; and Cuthbertson, John Harry, 3,673,819.
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Bate, Robert Thomas; and West, Forrest Jerome, Jr., 3,702,991.
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- West, Gaylon L., to United States of America, Navy. Detector. 3,665,860, 5-30-72, Cl. 102-70.200.
- West, George Allan: *See*—
Pringle, Frank E., Jr.; West, George Allan; Vogel, Walter H.; Saffranski, Richard W.; and Drake, Frederick R., 3,681,890.
- West, Glyn. Elapsed time recorder. 3,652,011, 3-28-72, Cl. 235-104.
- West, Harry J.: *See*—
Khelghatian, Habet M.; Poppe, Wassily; and West, Harry J., 3,682,695.
- West, Henry W.; and Gans, Frederick, to Winslav Technology, Inc. Alarm system for sensing smoke and intruders. 3,683,352, 8-8-72, Cl. 340-258.00b.
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Kober, Frederick P.; and West, Hiry B., 3,647,550.
- West, James Edward: *See*—
Sessler, Gerhard M.; and West, James Edward, 3,644,605.
- Sessler, Gerhard Martin; and West, James Edward, 3,652,932.
- Sessler, Gerhard Martin; Wallace, Robert Lee, Jr.; and West, James Edward, 3,668,417.
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Essery, John Michael; and West, Janet Ruth, 3,654,265.
- West, John Godfrey Wilson, to Lucas, Joseph, (Industries) Limited. Dynamo electric machines. 3,693,037, 9-19-72, Cl. 310-154.000.
- West, John Wesley: *See*—
McGabe, Bruce Hamilton; and West, John Wesley, 3,702,439.
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- West Laboratories, Inc.: *See*—
Cantor, Abraham; and Winicov, Murray W., 3,650,965.
- Shaw, Irving Franklin; and Hinden, Stephen David, 3,703,472.

- West, Laurice J. Micro inductor device. 3,638,156, 1-25-72, Cl. 336-200.
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Kantola, Robert A.; and West, Norman H., 3,666,273.
- West Point-Pepperell, Inc.: *See*—
Morris, Thomas S., 3,647,591.
- Spencer, Francis T., 3,667,665.
- Spencer, Francis T., 3,698,357.
- Wall, Thomas M., 3,677,538.
- West Products Corporation: *See*—
Edelberg, Alan Y.; and Hill, Jimmy E., 3,645,468.
- Edwards, David V., 3,659,298.
- West, Robert C.: *See*—
Penberthy, Walter L., Jr.; Bayless, Jack H.; and West, Robert C., 3,664,424.
- West, Robert F., to Stanley Works, The. Retractable utility knife. 3,660,895, 5-9-72, Cl. 30-162.
- West, Robert N.; Brook, Richard A.; Shaw, Richard G.; Lobb, Daniel R.; and Allnutt, Anthony J., to British Scientific Instrument Research Association. Method and electro-optical system for inspecting bodies such as tiles. 3,676,008, 7-11-72, Cl. 356-196.00.
- West, Roger T.: *See*—
Welsh, Alan B.; and West, Roger T., 3,663,114.
- West, Walter H., to Dow Chemical Company, The. Lined conduit. 3,650,550, 3-21-72, Cl. 285-55.
- West, William A.: *See*—
Berenbaum, Arthur; and West, William A., 3,683,145.
- West, William A., to Du Pont de Nemours, E. I., and Company. Quinacridone containing pigments. 3,686,009, 8-22-72, Cl. 106-288.00q.
- West, William W.; Bolt, Robert O.; and Gordon, Chester D., to Chevron Research Company. Process for the production of phosphate esters. 3,639,546, 2-1-72, Cl. 260-974.
- Westaway, Michael Thomas: *See*—
Goldup, Alan; Westaway, Michael Thomas; and Walker, Geoffrey, 3,645,891.
- Westaway, Thomas A., to United States of America, Navy. Phase reversal pulse modulator and pulse-compression filter for a coherent radar. 3,680,104, 7-25-72, Cl. 343-17.2pc.
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Sordoni, William B.; and Westawski, Frank S., 3,633,844.
- Westberg, Bengt Karl-Axel; Odman, Tor Axel; and Fahlstrom, Rune, to Sahlstrom AB. Washing means for a sandwich spreading machine. 3,699,878, 10-24-72, Cl. 99-450.400.
- Westberg, Johan E. H.: *See*—
Unger, Hans Peter Olof; Westberg, Johan E. H.; Berndtsson, Gunnar Ingemar; and Schwartz, Stephan Lars, 3,679,128.
- Westberg, Johan Eric Hayden: *See*—
Unger, Hans Peter Olof; and Westberg, Johan Eric Hayden, 3,684,160.
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- Westberg, Russell C. Ski flange. 3,643,978, 2-22-72, Cl. 280-28.
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- Westbrook, Charles L. Green pea sheller. 3,659,619, 5-2-72, Cl. 130-30.
- Westbury, Roy, to Hobson, H. M., Limited. Bi-directional torque limiters. 3,653,226, 4-4-72, Cl. 64-29.
- Westbury, Roy; and Simmons, John Richard, to Hobson, H. M., Limited. Position control servo systems. 3,667,344, 6-6-72, Cl. 91-1.000.
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Umina, Anthony P.; and Westcott, Donald E., 3,632,355.
- Westcott, Vernon C., to Trans-Sonics, Inc. Tachometer generator. 3,676,765, 7-11-72, Cl. 322-58.000.
- Westcott, Vernon C.; Blanchard, Byron E.; Davis, Paul A.; and Prevot Stephane, to Trans-Sonics, Inc. Tolerance checking system. 3,678,742, 7-25-72, Cl. 73-117.300.
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Herzhoff, Peter; Gref, Hans; Wolfgang, Leverkusen; Frenken, Hans; Assenmacher, Peter; and Westen, Dietmar, 3,677,076.
- Westenberger, John Marcus, to Westric Cutting Tool, Inc. Portable cassette holder and patient support for chest X-rays. 3,705,984, 12-12-72, Cl. 250-50.000.
- Westendorf, Werner, to Impulsphysik GmbH. Method and arrangement for testing of visibility measuring arrangements. 3,668,674, 6-6-72, Cl. 340-214.000.
- Westendorf, Walter J. Grab fork attachment for a loader bucket. 3,700,131, 10-24-72, Cl. 214-767.000.
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Buschow, Kurt Heinz Jurgen; and Westendorp, Frans Frederik, 3,701,695.
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Swartz, Paul S.; and Westendorp, Willem F., 3,646,394.
- Westendorp, Willem F., to General Electric Company. Shielded inductive device. 3,671,902, 6-20-72, Cl. 336-84.000.
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- Westerberg, Gerhard. Apparatus for teaching purposes. 3,631,612, 1-4-72, Cl. 35-48.
- Westerkamp, Kenneth L., to General Motors Corporation. Universal joint. 3,633,382, 1-11-72, Cl. 64-21.
- Westerdahl, Raymond P.: *See*—
Taylor, Francis R.; Leader, Patricia J.; and Westerdahl, Raymond P., 3,664,898.
- Westerdale, Maurice M.: *See*—
Vagi, Louis D.; and Westerdale, Maurice M., 3,678,635.
- Westeren, Herbert W.: *See*—
Pine, Wilson C.; Western, Herbert W.; and Kimball, William H., 3,642,263.
- Westeren, Herbert W.; Gronquist, Ernest C., Jr.; Ott, Marvin J., Jr.; and Gunther, Donald E., to Hayes, C. I., Inc. Heat treating furnace with walking beam drive. 3,656,720, 4-18-72, Cl. 263-6.
- Westerfield, Edwin E.: *See*—
Stone, Albert M.; and Westerfield, Edwin E., 3,680,124.
- Westerfield, Elmer L. Trash container holder. 3,638,802, 2-1-72, Cl. 211-71.
- Westerfield, James: *See*—
Glucost, Harold; and Westerfield, James, 3,664,029.
- Westergren, George A., to Whirlpool Corporation. Vacuum cleaner. 3,675,399, 7-11-72, Cl. 55-357.000.
- Westerhuis, Popko J.: *See*—
Opderbeck, Fritz; Ploetz, Theodor; Thamm, Rudolf; and Westerhuis, Popko J., 3,676,294.
- Westerkamp, Hugo; and Dubois, Robert, to Huber & Co. Magnetic phonograph pickup having plural inducing magnets. 3,641,284, 2-8-72, Cl. 179-100.41.
- Westerlund, Gothe O., to Chemech Engineering Ltd. Method for conducting electrolyte to, from and through an electrolytic cell. 3,640,804, 2-8-72, Cl. 204-95.
- Westerlund, Gothe O., to Chemech Engineering Ltd. Cell construction. 3,679,568, 7-25-72, Cl. 204-242.000.
- Westerlund, Herbert A.: *See*—
Westerlund, Robert E.; and Westerlund, Herbert A., 3,705,737.
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- Westerlund, Tage. Devices in transport lifts. 3,687,305, 8-29-72, Cl. 214-14.000.
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Weischedel, Herbert Rudolf; and Westerman, George Raymond, 3,665,291.
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- Westerman, George Raymond, to Bell Telephone Laboratories, Incorporated. Starting circuit for low voltage inverters utilizing regenerative action in the feedback transformer of the inverter to generated starting signals. 3,704,430, 11-28-72, Cl. 331-113.00.
- Westermann, Lillian D. Magnetic pick-up device. 3,646,492, 2-29-72, Cl. 335-285.
- Westermann, Werner F.: *See*—
Black, Thomas J.; and Sawyer, Carl B., 3,695,279.
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- Westermann, William S. Apparatus for automatically making phonograph records. 3,663,136, 5-16-72, Cl. 425-116.
- Westermayer, Rudolf: *See*—
Speth, Winfried; and Westermayer, Rudolf, 3,633,086.
- Western Blue Print Co.: *See*—
Wally, Joseph H., Jr., 3,639,054.
- Wally, Joseph H., Jr., 3,645,621.
- Western Boring Equipment Co.: *See*—
Bird, Michael J., 3,682,261.
- Western Company of North America, The: *See*—
Dill, Marcus J., 3,661,358.
- Kachnik, Joseph E., 3,665,967.
- Richardson, Darwin W., 3,684,720.
- Western Dynamics, Inc., mesne: *See*—
Bauer, Clarence Gerald, 3,650,212.

Western Electric Company, Incorporated: *See—*
 Abraham, Bruce C.; Fegley, Charles R.; and Lougher, George B., III, 3,674,141.
 Ahmed, Nazeer, 3,677,050.
 Anderson, Albin R.; and Jennings, John D., 3,691,720.
 Anderson, Aldin R.; Jennings, John D.; and Killerby, Walter E., 3,696,986.
 Archer, John Wesley; and Fuchs, Francis Joseph, Jr., 3,631,706.
 Artz, Walter M.; Cornelius, Kenneth R.; Olson, John W.; Signor, Gary R.; and Slijkowski, Francis E. (said Signor, assor. to), 3,641,505.
 Asar, Madhu P.; Bolin, John E.; and Maddox, Harry L., 3,644,661.
 Baldwin, Wiley M.; and Monroe, Raymond, Jr., 3,669,635.
 Baldwin, Wiley M.; Fuchs, Edward O.; and Sharp, Donald J. (said Baldwin and said Sharp assors. to), 3,697,255.
 Baldwin, William M., Jr.; and Rayburn, Vincent A., 3,650,142.
 Baluck, Francis M., 3,649,957.
 Blitchington, Frank H., Jr.; and Harris, Richard A., 3,647,961.
 Blitchington, Frank H., Jr., 3,679,903.
 Blitchington, Frank H., Jr., 3,689,904.
 Bohannon, William D., Jr., 3,700,100.
 Boland, Daniel E.; and Craig, Dale E., 3,635,421.
 Boland, Daniel Edmund; Dewees, Leonard S.; and Towsley, LeRoy M., 3,668,302.
 Bos, Laurence William, 3,692,987.
 Boyer, Lynn Forrest; and Johnson, Anderson Forbes, Jr., 3,695,928.
 Briody, Thomas F., 3,659,552.
 Briody, Thomas F., 3,699,298.
 Brown, Martin J., 3,681,103.
 Brown, William Brownlee, 3,701,491.
 Broyde, Barret, 3,661,582.
 Budzich, Mieczyslaw, 3,642,016.
 Burock, Russell; Swirsky, David M.; and Whitner, Robert A., 3,644,180.
 Campbell, Douglas E.; and Harris, Richard A., 3,671,243.
 Campbell, Douglas Earl; and Harris, Richard Allen, 3,679,310.
 Cartwright, John Sutton; and Fuchs, Francis Joseph, Jr., 3,677,049.
 Cassidy, Glenn; Hartman, Donald A.; Hentz, Lyle J.; and Horn, William D., 3,702,952.
 Christensen, Gary Lee; and Gittelman, Donald Henry, 3,705,055.
 Connell, James C.; Pinnolis, Samuel; and Schmidt, Wilhelm E. A., 3,690,471.
 Coucoulas, Alexander, 3,655,177.
 Coucoulas, Alexander, 3,669,333.
 Cranston, Benjamin H., 3,634,930.
 Cranston, Benjamin H.; and Eleftherion, Michael P., 3,699,640.
 Crosby, Gerald E.; and Shanefield, Daniel J., 3,679,472.
 Cruickshank, David Graham; Epperson, James Philbert; Murray, William, Sr.; and Wydro, Richard Allen, Sr., 3,632,955.
 Cushman, Robert Holbrook, 3,652,929.
 Cushman, Robert Holbrook, 3,663,741.
 Cushman, Robert Holbrook, 3,669,806.
 Cushman, Robert Holbrook, 3,700,009.
 Cushman, Robert Holbrook, 3,706,126.
 Czeck, Joseph J.; Glen Lyon; and Reusser, Raymond E., 3,679,370.
 Dembiak, Matthew R.; and Webster, George H. (said Dembiak assor. to), 3,703,605.
 Dembiak, Matthew Raymond; and Webster, George H. (said Dembiak assor. to), 3,679,503.
 Duffek, Kenneth John; and Nolan, Thomas Hoyt, 3,680,076.
 Dugan, Allan Edward, 3,703,637.
 Durr, Helmut Emil; and Haller, Albert Heinz, 3,660,161.
 Etchison, John O., Jr., 3,636,438.
 Fairchild, Albert R., 3,678,892.
 Faley, Eric Lake; and Riewe, David Paul, 3,635,236.
 Frank, Gerard A.; Kipp, Karl F.; and Oswald, Donald R. (said Frank and said Kipp assors. to), 3,664,872.
 Fuchs, Francis J., Jr., 3,667,267.
 Fuchs, Francis Joseph, Jr., 3,677,048.
 Fuchs, Francis Joseph, Jr., 3,686,910.
 Fuchs, Francis Joseph, Jr., 3,696,652.
 Garceau, William J., 3,631,589.
 Goll, Frederick Martin, 3,681,723.
 Gondeck, Allan R., 3,679,881.
 Hall, Frederick W.; and Poehlmann, George, 3,651,449.
 Hardesty, Edwin C., 3,656,516.
 Hardesty, Edwin C.; Krumreich, Charles L.; Mulbarger, Albert E., Jr.; and Walen, Stephen W., 3,699,498.
 Harris, Richard A., 3,677,644.
 Herring, Carl R.; and Schneider, Fred J., 3,696,985.
 Hetrich, Harold Arthur, 3,701,705.
 Hornor, Eugene M.; and Hyde, William J., 3,651,243.
 Jacisin, Joseph Michael; and Tropello, Sam Duane, 3,697,089.
 Jannett, Frederick Joseph; and Mracek, Jaroslav, 3,681,139.
 Jensen, Harold R., 3,670,209.
 Keating, John M., 3,667,989.

Kenney, John Thomas, 3,657,003.
 Kent, William C., 3,703,029.
 Kerr, Archie F.; and Lagler, Karl R., 3,652,819.
 Kincaid, Jack W.; and Simpson, Michael M., 3,651,566.
 La Valle, Thomas A., 3,706,122.
 La Valle, Thomas Alvin, 3,679,861.
 La Valle, Thomas Alvin, 3,689,981.
 Lane, Homer P., 3,663,914.
 LaValle, Thomas Alvin, 3,698,061.
 LaValle, Thomas Alvin, 3,698,062.
 Ludwig, David P., 3,640,444.
 Lumley, Robert Miller; and Tarassov, Victor John, 3,700,850.
 Manning, Robert A.; and Raymond, Donald H., 3,635,802.
 Mc Grath, John W., 3,702,437.
 McClamrock, Grady L., 3,689,989.
 Meal, John R.; and Smith, Gregory H., 3,662,453.
 Meyers, Benjamin F.; and Oldis, John E., Jr., 3,704,502.
 Mistler, Richard E., 3,652,378.
 Montone, Liber J., 3,679,820.
 Nixon, Earl H., 3,636,319.
 Palmer, Douglas B., 3,699,434.
 Pingel, Vernon J., 3,653,986.
 Pinnolis, Samuel; and Schmidt, Wilhelm E. A., 3,701,520.
 Rackus, John J.; Skilbeck, John P.; and Szkudlaski, Alfons H., 3,692,638.
 Reusser, Raymond E., 3,698,872.
 Rott, Dennis A.; and Smiljanic, John P., 3,647,730.
 Schjerven, William N., Jr., 3,696,928.
 Schmidt, Wilhelm Emil Albert, 3,645,228.
 Schneek, James F., 3,649,392.
 Schopethaler, David, 3,649,811.
 Sharp, Donald J.; and Sutch, Richard D., 3,644,188.
 Sherrill, Henry H., Jr., 3,675,299.
 Shukovsky, Harold Barry; and Torok, Theodore Elwyn, 3,639,217.
 Steele, Terri Giversen, 3,704,186.
 Stetson, Harold Wilbur; and Gyrur, Warren Joseph, 3,698,923.
 Stetzler, Grant F., 3,702,970.
 Studnick, William R., 3,657,508.
 Sweitzer, Stanley E., 3,635,730.
 Thelen, Charles O.; and Ziegler, Hans J., 3,640,493.
 Venkatesan, Peruvemba Swaminatha, 3,649,375.
 Venkatesan, Peruvemba Swaminathan, 3,635,616.
 Wanesky, William R., 3,632,074.
 Wanesky, William R., 3,663,326.
 Wanesky, William R., 3,666,588.
 Wanesky, William R., 3,680,947.
 Wanesky, William R., 3,690,984.
 Ward, Robert C., 3,654,550.
 Westlund, Robert L., 3,633,098.
 Western Electric Company, Incorporated, *mesne: See—*
 Haven, Roger Lindsay, 3,675,049.
 Western Electric Company Limited: *See—*
 Warner, Wesley John, 3,692,948.
 Western Farmers Association: *See—*
 Englar, William J.; and Dew, Donald C., 3,635,729.
 Western Gear Corporation: *See—*
 Blanchet, James P.; Hotes, Charles M.; and Reynolds, Thomas J., 3,669,329.
 Hinman, Ronald C.; Miller, Richard D.; and Pistel, Conrad, 3,631,964.
 Macpherson, Duncan H., 3,690,440.
 Schwarzbeck, John G., 3,698,539.
 Welsch, Bernhard J.; and Schafer, James A., 3,701,493.
 Western Geophysical Company of America: *See—*
 Bennett, Grant S., 3,642,090.
 Biggs, Paul G., 3,673,556.
 Holzman, Mark, 3,671,932.
 Mateker, Emil J., Jr., 3,671,930.
 Mollere, John C., 3,669,213.
 Mollere, John C., 3,702,984.
 Parker, Marion L.; and Southwick, Hillman, 3,642,089.
 Savit, Carl H., 3,662,325.
 Savit, Carl H., 3,670,839.
 Savit, Carl H., 3,693,400.
 Schmitt, Arthur N., 3,704,444.
 Western Gold & Platinum Company: *See—*
 Gamet, Nicholas T.; and Richardson, James G., 3,702,763.
 Mizuhara, Howard, 3,652,237.
 Western Kraft Corporation: *See—*
 Bastian, Donald Lee, 3,640,449.
 Western Litho Plate & Supply Co.: *See—*
 Harrell, Robert E.; and Parker, Edward H., 3,635,559.
 Parker, Edward H.; Gould, William F.; and Alley, John H., 3,682,078.
 Western Meats: *See—*
 Howell, Lawrence E.; and Bailiff, Howard Vance, 3,653,927.
 Western Mining Corporation Limited: *See—*
 McInerney, Edwin, 3,651,875.
 Western Monolithic Concrete Products: *See—*
 Harris, Willard V., Jr., 3,690,076.

Western Piping & Engineering Co., Inc.: *See—*
 Coats, David E., 3,652,108.
 Western Printing Machinery Co.: *See—*
 Henkel, Allmen P., 3,703,282.
 Musgrave, Ray D., 3,678,849.
 Western Reserve Electronics Inc.: *See—*
 Rummel, Edward W.; and Funk, Richard H., 3,683,253.
 Western Rock Bit Company Limited: *See—*
 White, Kenneth Murray, 3,665,623.
 Western Technical Products, Inc.: *See—*
 Leto, Alfonso; and Davis, William R., 3,689,832.
 Western Union Telegraph Company, The: *See—*
 Aguiar, Gabriel A., 3,691,452.
 Brown, William H., 3,638,075.
 De Witt, Russell G., 3,660,606.
 De Witt, Russell G., 3,663,760.
 Westerwalder Eisenwerk Dr. Paul Gerhard KG: *See—*
 Gerhard, Helmut; and Reichmann, Hans-Helmut, 3,661,293.
 Westfalia Dinnendahl Groppe Aktiengesellschaft: *See—*
 Smits, Lambert, 3,656,641.
 Westfall, James E.: *See—*
 Powalowski, Joseph C.; and Westfall, James E., 3,656,648.
 Westfall, James E., to Continental Can Company, Inc. Container closure, 3,677,431, 7-18-72, Cl. 215-43.000.
 Westfall, James E., to Continental Can Company, Inc. Press-on, twist-off temper indicating closure cap, 3,685,677, 8-22-72, Cl. 215-42.000.
 Westfall, James E.; and Zipper, Donald H., to Continental Can Company, Inc. Gasket cut-through prevention closure and container, 3,687,332, 8-29-72, Cl. 220-42.00a.
 Westfall, James E.; Lawson, Arthur L.; and Vercillo, Peter A., to Continental Can Company, Inc. Composite closure, 3,690,499, 9-12-72, Cl. 215-40.000.
 Westgate-California Foods, Inc.: *See—*
 Bynagte, Peter W., 3,705,040.
 Westin, Dale B. Vehicle mounted portable sign, 3,633,299, 1-11-72, Cl. 40-129.
 Westinghouse Air Brake Company: *See—*
 Allen, Clifford W., 3,638,670.
 Allen, Clifford W.; and Wilson, Richard F., 3,653,476.
 Allen, Clifford W., 3,667,490.
 Bechman, William H.; Lott, Walter E.; and Siewert, John F., 3,660,914.
 Becky, Raymond, 3,679,828.
 Bell, Edward H., 3,656,353.
 Bridgum, Robert J., 3,707,209.
 Buckeridge, Roger M., 3,665,251.
 Buckeridge, Roger M., 3,671,834.
 Campbell, Richard D., 3,636,344.
 Carbo, Jerry A.; and Grady, Dennis F., 3,670,477.
 Coiner, Ronald W., 3,653,408.
 Coiner, Ronald W., 3,653,782.
 Coiner, Ronald W.; and Vutz, Norman, 3,659,625.
 Coiner, Ronald W., 3,694,650.
 Darrow, John O. G., 3,657,601.
 Darrow, John O. G., 3,660,731.
 Darrow, John O. G., 3,694,695.
 Darrow, John O. G., 3,702,939.
 Donaldson, George W., 3,656,037.
 Dressler, Edward T., Jr., 3,638,856.
 Elcan, Joel E.; and Jackel, Arthur Paul, 3,662,167.
 Franke, Raymond C.; and Dufer, William B., 3,696,356.
 Frill, Richard K.; and Zoric, Michael T., 3,638,770.
 Grundy, Reed H., 3,638,115.
 Grundy, Reed H., 3,651,765.
 Grundy, Reed H., 3,660,680.
 Grundy, Reed H., 3,691,462.
 Grundy, Reed H., 3,698,325.
 Hamley, David H.; and Hylen, Lyle L., 3,696,244.
 Hylen, Lyle L., 3,691,371.
 King, Dean D., 3,693,431.
 Kyllonen, Allen W., 3,707,208.
 Mayer, Gary T.; and Scott, Daniel G., 3,639,010.
 McClure, Glenn T.; and Salton, Robert B., 3,650,572.
 McClure, Glenn T., 3,698,520.
 Newell, George K.; and McClure, Glenn T., 3,653,729.
 Noble, Peter M., 3,661,091.
 Popp, Ralph, 3,678,368.
 Popp, William R., 3,694,702.
 Racki, Francis R., 3,653,406.
 Ryburn, Kenneth D.; McClone, Robert J.; and Fox, Charles H., 3,702,715.
 Sanders, Walter J., 3,682,574.
 Sarbach, Ronald A., 3,653,728.
 Sarbach, Ronald A., 3,654,456.
 Sarbach, Ronald A., 3,659,903.
 Schroeder, Theodore C., 3,668,578.
 Scott, Daniel G., 3,671,086.
 Sheppard, Charles W., 3,707,627.
 Staples, Crawford E.; and Jacobs, William A., 3,660,652.
 Stewert, John F.; and Smith, Dean A., 3,675,347.
 Stipanovic, Joseph G.; and Allan, Earl E., 3,638,503.
 Stipanovic, Joseph G., 3,659,685.
 Wagner, Daniel G., 3,703,188.
 Williams, Richard H., Jr., 3,705,368.
 Worbois, Robert J., 3,653,723.
 Westinghouse Brake and Signal Company Limited: *See—*
 Anderson, Thomas A., 3,693,054.
 David, Vivian; and Norton, David J., 3,643,025.
 Eastop, Robert Henry, 3,657,634.
 Glass, William B., 3,656,228.
 Glass, William Brian, 3,651,564.
 Higgins, Horatio Leslie, 3,704,653.
 Mays, Michael Richard; and Paginton, Philip Norman, 3,645,226.
 Paginton, Philip Norman, 3,707,314.
 Washbourn, Jack, 3,706,480.
 Westinghouse Brake English Electric Semi-Conductors Limited: *See—*
 Carter, Victor J., 3,644,797.
 Miles, Clifford Victor; and Garrett, John M., 3,633,271.
 Palmer, Peter J.; and Anderson, Thomas A., 3,682,698.
 Westinghouse Bremsen- und Apparatebau GmbH: *See—*
 Altneppen, Johannes, 3,666,325.
 Bachmann, Wilhelm, 3,665,961.
 Bachmann, Wilhelm, 3,707,162.
 Frania, Josef; and Lehnert, Erhard, 3,690,421.
 Hennig, Karl-Friedrich; Reinecke, Erich; Merz, Herbert; Werner, Egon; Isernhagen, Fritz; Holthusen, Erwin; and Klatt, Alfred, 3,695,734.
 Kriete, Horst, 3,638,683.
 Pekrul, Ewald, 3,671,087.
 Reinecke, Erich, 3,659,420.
 Scheele, Fritz; Frania, Josef; and Ortmann, Walter, 3,656,814.
 Westinghouse Canada Limited: *See—*
 Luker, Ronald J., 3,660,665.
 Westinghouse Canada Limited-Westinghouse Canada Limitee: *See—*
 McGregor, Gavin, 3,680,201.
 Westinghouse Electric Company: *See—*
 Guerry, Franklin D., 3,672,614.
 Westinghouse Electric Corporation: *See—*
 Aanstad, Ola J., 3,672,628.
 Adams, Rodney V.; and Medlin, Roger E., 3,676,875.
 Agnew, Frank R.; Byrne, Francis P.; Kaczmarek, Thomas D.; Kriege, Owen H.; Gainer, Gordon C.; and Luck, Russell M., 3,689,224.
 Aldous, George C., 3,634,802.
 Allen, Laird R., Jr., 3,660,625.
 Ames, Stephen A., 3,707,718.
 Andrew, Kenneth F.; Tallman, Richard L.; and Gulbransen, Earl A., 3,672,814.
 Andrews, Harry N.; Patterson, John F.; and Wilson, John F., 3,647,622.
 Appelo, Hendrik C., 3,707,659.
 Arcella, Frank G.; and Brumm, Russell E., 3,681,843.
 Arnold, Wayne E., 3,705,349.
 Astleford, John J., Jr.; and Galloway, Dudley L., 3,634,798.
 Attridge, John T., 3,670,142.
 Aue, John R., 3,633,783.
 Aue, John R., 3,647,075.
 Aue, John R.; and Thompson, Glen D., 3,653,158.
 Baker, Donal E., 3,671,844.
 Baker, Donal E., 3,697,860.
 Barnabei, Philip S.; and Vettel, Norbert, 3,644,058.
 Barnett, Eugene J.; and Baker, Gerald E., 3,633,561.
 Basel, Donald R., 3,659,125.
 Bauer, James A., 3,648,999.
 Bebinger, Jack E., 3,684,199.
 Bebinger, Jack E., 3,695,519.
 Begley, Richard T.; and Godshall, John L., 3,682,626.
 Benke, Frank W.; and Uitto, Gary E., 3,633,272.
 Bennett, Allan I., 3,682,708.
 Bereza, Albert, 3,656,225.
 Berkovitz, Harry, 3,651,893.
 Berman, Paul A., 3,658,153.
 Berman, Paul A., 3,696,612.
 Bernales, Benjamin C., 3,702,222.
 Beydler, William W., 3,653,008.
 Billings, William W.; and Calfee, Wendell, 3,683,199.
 Birnbaum, Manfred E.; Braytenbah, Andrew S.; and Richardson, Arthur W., 3,643,437.
 Bixby, Bryan J., 3,634,875.
 Bixby, Bryan J.; and Paice, Derek A., 3,666,971.
 Blavo, Nicholas, 3,691,496.
 Boaz, Virgil L.; and Moore, Harold R., 3,688,236.
 Bobo, Powell O., 3,634,750.
 Boltrek, Henry; and Kraft, Joseph K., 3,677,388.
 Boltrek, Henry; and Kraft, Joseph K., 3,707,220.
 Booker, Clyde A., Jr.; and Thompson, Francis T., 3,647,953.
 Booker, Clyde A., Jr.; and Thompson, Francis T., 3,647,954.
 Bould, Fred; and Taylor, John H., 3,662,133.
 Boyce, Walter A., 3,636,398.

- Bozanic, Donald A.; Minarik, Ronald W.; and Mergerian, Dickron, 3,663,952.
 Bozanic, Donald A.; Mergerian, Dickron; and Minarik, Ronald W., 3,671,855.
 Breed, Charles P.; and Anderson, Melvin R., 3,697,740.
 Brody, Thomas P.; Page, Derrick J.; and Raygor, Paul O., 3,657,613.
 Brody, Thomas P., 3,705,309.
 Brooks, Charles G.; and Peterson, Noel C., 3,638,226.
 Brown, Ralph D., 3,685,292.
 Brown, Robert O.; Noyes, Edwin G., Jr.; and Conrad, Joseph D., Jr., 3,665,964.
 Bruning, Armin M., 3,686,420.
 Buck, Daniel C.; and Schellenberg, James M., 3,648,199.
 Buck, Daniel C., 3,654,576.
 Buck, Daniel C., 3,680,010.
 Buhl, Donald E.; and Schuster, Donald R., 3,634,608.
 Burckhalter, Albert Cohen Frank O., 3,694,103.
 Burgoon, Richard J., 3,680,071.
 Burney, Ivan T., 3,704,571.
 Calfee, Wendell, 3,681,636.
 Cameron, Frank L., 3,636,491.
 Cameron, Frank L., 3,705,373.
 Campbell, Donald A., 3,644,172.
 Cannady, Daniel L., Jr.; and Palazzolo, Salvatore E., 3,648,358.
 Caputo, William R., 3,687,236.
 Carothers, Charles H.; and Bogner, Philip W., 3,644,791.
 Carothers, Charles H.; and Kelly, Robert M., 3,679,938.
 Carothers, Charles H.; and Bogner, Philip W., 3,702,419.
 Carter, William J., 3,707,673.
 Cellerini, Albert R., 3,662,134.
 Cellerini, Albert T.; Majcher, John; and Paton, Charles R., 3,681,545.
 Chamberlin, Richard M.; Emswiller, James L.; Calderwood, Andrew S.; and Stana, Regis R., 3,658,955.
 Chamberlin, Richard M.; and Stana, Regis R., 3,684,094.
 Chang, Hung Chi; and Ostroski, John W., 3,684,592.
 Charlton, Thomas; and Cation, Kenneth L., 3,707,637.
 Cherry, Sidney J.; Wayland, Paul O.; and Bereza, Albert, 3,657,502.
 Cherry, Sidney J.; Bereza, Albert; and Wayland, Paul O., 3,670,129.
 Chi, John W. H.; and Flaherty, Robert, 3,688,762.
 Chu, Ting L.; Gruber, Gilbert A.; and Szedon, John R., 3,652,324.
 Chu, Ting Li, 3,658,572.
 Circle, Robert Ray, 3,646,295.
 Circle, Robert Ray, 3,655,931.
 Cleaveland, Charles M., 3,662,137.
 Cleveland, Charles M.; and Milianowicz, Stanislaw A., 3,691,335.
 Cobb, William R., 3,678,716.
 Coffey, David W., 3,654,537.
 Coffey, William F.; and Coley, Kenneth R., 3,707,652.
 Coffey, William F.; and Coley, Kenneth R., 3,707,653.
 Cohen, Albert, 3,642,295.
 Cohen, Paul, 3,666,246.
 Colangelo, Don L.; and Manes, Robert J., 3,636,489.
 Coleman, William H.; Quinn, Robert C.; Novak, Howard L.; Kalbach, Jack J.; and Jones, Seward L., 3,658,438.
 Colling, David A., 3,657,026.
 Collins, James D.; and Wilsdon, Thomas A., 3,673,525.
 Comenetz, George, 3,636,228.
 Conner, Edmond E.; and Wentz, Edward C., 3,686,600.
 Cooper, Glenn D., 3,687,510.
 Cooper, Herbert W., 3,657,656.
 Cooper, Herbert W., 3,697,997.
 Cottam, Alfred E., 3,633,033.
 Cozzarin, Virgil J.; Kappermann, Francis C.; and Kipple, Harry P., 3,693,842.
 Cricchi, James R.; and Lancaster, Edgar D., Jr., 3,641,511.
 Cricchi, James R.; and Hudson, James R., 3,644,907.
 Cricchi, James R., 3,657,614.
 Cricchi, James R., 3,680,062.
 Cricchi, James R.; and Beydler, William W., 3,683,335.
 Cricchi, James R., 3,702,465.
 Daley, Thomas J., 3,662,460.
 Daley, Thomas J., 3,665,759.
 Davies, Norman; and Binz, Robert D., 3,648,204.
 Davies, Norman, 3,652,815.
 Davies, Norman, 3,684,848.
 Dax, Peter R.; and Moore, Thomas M., 3,648,284.
 De Caro, Aristide R., 3,644,776.
 De Caro, Aristide R.; and Rainone, Nicholas J., 3,648,094.
 De Corso, Serafino M.; and Meyer, Mitchell I., 3,635,018.
 De Corso, Serafino M., 3,657,883.
 De Corso, Serafino M.; and Jersey, Chester A., 3,668,869.
 De Corso, Serafino M., 3,680,163.
 De Corso, Serafino M.; and Wallace, James M., 3,689,740.
 De Corso, Serafino M.; and Carlson, Carl W., 3,702,058.
 De Klerk, John, 3,689,784.
 DeKlerk, John, 3,632,439.
 DeKlerk, John, 3,655,429.
 Deramo, Anthony D.; Smith, Andrew W., Jr.; Wallace, Frank E.; and Goldbach, Robert J., 3,631,697.
 Desmond, John William, 3,694,882.
 Desmond, Timothy J.; and Krumnacker, Berton P., 3,660,179.
 Diaz, Richard A.; and Szabo, Andras I., 3,707,713.
 Dinunno, Philip A., Jr.; Bonk, Joseph S.; Conrad, Kenneth C.; Moore, Rodney S.; Lochman, Harry E.; and Torello, Daniel D., 3,677,658.
 Dixon, George D.; and Scala, Luciano C., 3,656,909.
 Donselman, Edward H., 3,639,025.
 Drankhan, Voit C.; and DiNicolantonio, Frank, 3,663,806.
 Driver, Michael C., 3,657,615.
 Driver, Michael C.; and Geisler, Martin J., 3,675,313.
 Driver, Michael C., 3,678,573.
 Eargle, William R., 3,697,743.
 Eaton, Bruce G., 3,671,892.
 Eberhart, Arthur H., 3,643,462.
 Eisele, Hermann; and Huggett, Colin E., 3,668,495.
 Elder, Frederick A., 3,678,372.
 Emmerich, Werner; and Voshall, Roy E., 3,632,928.
 Engel, Joseph C.; and Elms, Robert T., 3,648,106.
 Engel, Joseph C.; and Elms, Robert T., 3,689,801.
 Ernick, Frederick G.; Kisinko, Paul M.; Marino, Joseph; and Kannam, Peter J., 3,639,815.
 Fahey, Thomas M.; and Mentzell, John C., 3,668,946.
 Farr, Kenneth E., 3,683,992.
 Feather, Landis E., 3,683,495.
 Ferber, Robert R.; and Gilmour, George A., 3,666,950.
 Ferguson, James L.; and Goldberg, Newton N., 3,657,538.
 Ferguson, James L.; and Goldberg, Newton N., 3,663,390.
 Fernandez-Sein, Rafael, 3,663,836.
 Ferrari, Harry M., 3,644,174.
 Ferrari, Harry M., 3,677,894.
 Fey, Maurice G., 3,663,792.
 Fidei, Frank P., 3,634,705.
 Filipak, Edmund H., 3,638,457.
 Fischer, William H.; and Aspey, Wayne S., 3,639,713.
 Fischer, William H., 3,665,134.
 Fisher, Peter D.; Mergerian, Dickron; and Minarik, Ronald W., 3,691,383.
 Flick, Robert H.; Thomas, Glenn R.; and Majcher, John, 3,657,672.
 Fludzinski, Jan M., 3,657,623.
 Formigoni, Napoleon P.; and Roberts, John S., 3,662,458.
 Fort, Emil M., 3,679,925.
 Foster, Karl; and Seidel, Joseph, 3,670,278.
 Foster, Karl; and Seidel, Joseph, 3,687,742.
 Foster, Newton C., 3,657,196.
 Foster, Newton C., 3,686,045.
 Fox, David A., 3,697,813.
 Fox, John J., 3,648,381.
 Fraser, Hugh D.; and Werner, Leo C., 3,656,826.
 Freeze, John A., 3,667,034.
 Friedrich, Kevin F., 3,646,251.
 Friedrich, Kevin F., 3,692,928.
 Frisch, Erling, 3,685,123.
 Frummerman, Robert; and Mc Adoo, John D., Jr., 3,658,996.
 Gaheen, Alfred F., Jr., 3,670,334.
 Galloway, Dudley L., 3,644,858.
 Gangawere, Lloyd B., 3,684,915.
 Garaway, Mark W., 3,693,027.
 Gause, Smith A., 3,644,166.
 Geffe, Philip R., 3,643,183.
 Geffe, Philip R., 3,707,685.
 Geffken, John H., 3,671,828.
 Geohagan, Kenneth P., Jr.; and Shearin, Edwin A., 3,634,625.
 Ghoshagore, Rathindra N.; and Yut, Robert F., 3,650,815.
 Giardina, Angelo Robert, 3,651,789.
 Gillstrom, Robert B., 3,691,801.
 Ginsberg, Howard S., 3,644,753.
 Giuliano, Michael N.; and Goins, Elwood W., 3,684,902.
 Godwin, Gurney L.; and Kilgore, Lee A., 3,667,015.
 Goetze, Gerhard W.; and Boerio, Alvin H., 3,657,596.
 Goldie, Harry, 3,644,779.
 Goldie, Harry; Goldman, Michael A.; and Klein, Gerald, 3,648,100.
 Goldie, Harry; and Goldman, Michael, 3,705,319.
 Goldman, Michael A.; and Goldie, Harry, 3,657,642.
 Goldstein, Robert P.; and Agnew, Frank R., 3,697,227.
 Gordon, Dale I.; and Smart, Lee W., 3,686,523.
 Gorsuch, Harold F., 3,689,718.
 Gotal, Joseph; and Conner, Edmond E., 3,705,372.
 Grimmer, Elmer J., 3,647,938.
 Grimmer, Elmer J., 3,659,033.
 Gulbransen, Earl A.; Tallman, Richard L.; Andrew, Kenneth F.; and Buzalski, Bruce T., 3,675,004.
 Gyugyi, Laszlo, 3,641,417.
 Gyugyi, Laszlo, 3,707,665.

- Gyugyi, Laszlo, 3,707,666.
 Gyugyi, Laszlo, 3,707,667.
 Hagen, Oskar, 3,652,179.
 Hammer, Joel B., 3,654,513.
 Hampe, Walter R.; Simon, Albert B.; Hampton, William H.; and Decker, William E., 3,692,127.
 Hancock, Charlie L., 3,684,343.
 Hancock, Charlie L., 3,692,377.
 Hancock, Charlie L., 3,704,550.
 Handy, Robert M.; Angello, Stephen J.; Malmberg, Paul R.; and O'Keeffe, Terence W., 3,679,497.
 Harbour, Philip F.; and Swaneck, Anthony J., 3,638,717.
 Hardman, Carl C., 3,679,482.
 Harrison, John William, 3,685,434.
 Harrold, Ronald T., 3,684,951.
 Hayden, John T., Jr.; and Plasewicz, Casimir F., 3,655,460.
 Heinrich, Theodore M.; Martin, Robert L.; and Steele, David J., 3,697,850.
 Heller, Paul R.; Brenner, William C.; and Phillosky, Harold M., 3,647,932.
 Hendry, Allen J.; and Wilson, John T., 3,634,729.
 Hendry, Allen J.; and Maier, Alfred E., 3,654,535.
 Hepps, Michael B. L.; and Ferrari, Harry M., 3,647,623.
 Hess, Robert L.; and Summers, Gerald D., 3,646,296.
 Hetrick, Richard R., 3,676,290.
 Heuschkel, Julius, 3,635,698.
 Heuschkel, Julius, 3,656,943.
 Heymann, Frank J., 3,697,191.
 Hickam, William M.; and Witkowski, Robert E., 3,650,920.
 Hickam, William M.; and Witkowski, Robert E., 3,650,934.
 Hilsenbeck, Laurence L., 3,707,658.
 Hiscox, Harold C.; and Arnold, Larry R., 3,634,862.
 Hobbs, Milton M., 3,656,708.
 Hodgson, Alfred W., 3,639,873.
 Hoffman, Emil De Coudres, 3,641,537.
 Hofing, Frederick H., 3,702,451.
 Hollister, Robert H.; Wilburn, Garlington C.; and Green, Kurt G., 3,676,623.
 Holtkamp, Calvin J., 3,639,726.
 Holtkamp, Calvin J., 3,648,011.
 Holtkamp, Calvin J., 3,648,012.
 Holtkamp, Calvin J., 3,655,943.
 Holtkamp, Calvin J., 3,680,021.
 Hopkins, Richard H.; Roland, George W.; Partlow, William D.; and Steinbruegge, Kenneth B., 3,632,523.
 Hopkins, Richard H.; Roland, George W.; Steinbruegge, Kenneth B.; and Partlow, William D., 3,679,597.
 Horton, William E., III, 3,684,995.
 Hoyler, Robert C., 3,691,368.
 Hruza, Robert M., 3,688,204.
 Hugoson, Birger O., 3,657,882.
 Hugoson, Birger O., 3,657,884.
 Hundstad, Richard L., 3,667,871.
 Hunt, Clarence W.; Johnston, Ralph W.; and Stephens, Donald S., 3,657,677.
 Hyde, Gilbert F.; and Le Gates, Ralph W., 3,684,237.
 Immel, Ralph B.; and Collins, James D., 3,685,049.
 Imris, Paul, 3,651,941.
 Innis, Robert T.; Berg, Alan J.; and Santilli, James N., 3,707,650.
 Ivey, Curtis L.; Vance, Alvin M.; and Eisele, Hermann, 3,688,167.
 Jackovitz, John F.; and Langer, Alois, 3,650,835.
 Jacobs, David F., 3,683,192.
 Jacobs, David F., 3,702,402.
 Jansen, Robert A., 3,669,520.
 Jansen, Robert A., 3,684,342.
 Jensen, Erik; and Blankenship, Shelby L., 3,666,924.
 Johnson, Edwin W., 3,645,782.
 Johnson, James C.; and Eargle, William R., Jr., 3,634,681.
 Johnson, James C.; and Neider-Westermann, Winfried, 3,668,998.
 Johnston, Ralph W.; Stephens, Donald S.; Miller, Robert W.; Hunt, Clarence W.; and Klecic, Frank J., 3,652,968.
 Jones, William J., 3,698,384.
 Jones, William S.; and Hacker, Philip S., 3,697,993.
 Jung, Robert C., 3,656,314.
 Kappenhagen, George A., 3,654,514.
 Kasschau, Kenneth, 3,685,532.
 Kaufman, Howard N., 3,635,311.
 Kaufman, Howard N., 3,635,312.
 Kennedy, Paul G.; and Mackenzie, Raymond W., 3,659,042.
 Kennedy, Paul G.; Zeigler, Rodney N.; and Provine, Daniel J., 3,705,262.
 Keppler, Arthur T., 3,702,112.
 Kernick, Address; Geyer, Manvel A.; Ernsberger, Glenn W.; and Vonderembse, John F., 3,636,430.
 Kernick, Address; Geyer, Manvel A.; and Ernsberger, Glenn W., 3,648,150.
 Kernick, Address; and Ernsberger, Glenn W., 3,697,855.
 Keto, August I., 3,652,975.
 Keto, August I.; and Klein, Kenneth R., 3,663,928.
 Keto, August I., 3,670,287.
 Keto, August I.; and Farley, James R., 3,697,932.
 Kilgore, Lee A., 3,667,012.
 Kilgore, Lee A.; and Demerdash, Nabeel A., 3,697,791.
 Kilp, Gerald R.; Bergstrom, Paul M.; and Ferrari, Harry M., 3,634,190.
 Kipple, Harry P.; Cozzarin, Virgil J.; and Kapperman, Francis C., 3,683,154.
 Kirsch, Andrew F., 3,636,506.
 Kiscaden, Roy W.; and Yannone, Robert A., 3,680,572.
 Kivenson, Gilbert, 3,683,691.
 Klein, Kenneth R., 3,673,364.
 Knochel, William J.; and Werner, Leo C., 3,682,525.
 Kozlovic, John M.; and South, William H., 3,644,790.
 Kraft, Joseph K., 3,682,289.
 Kruper, Andrew P., 3,671,830.
 Kruzic, Zelco J., 3,638,157.
 Kuhn, Edmund W., 3,694,592.
 La Coste, Bernard L.; and Dawawala, Suryakant K., 3,642,024.
 Lackey, Robert S.; Meess, Jack D.; and Swetlitz, Myron, 3,635,536.
 Lance, Joseph R., 3,633,217.
 Lange, Frederick F., 3,699,642.
 Lanoue, Thomas J.; and De Neef, John G., 3,676,579.
 Larson, Daniel A., 3,634,718.
 Leach, James A., 3,639,727.
 Lehmann, Willi; and Ryan, Frederick M., 3,673,102.
 Lempert, Joseph; Lowry, Jerald; and Bonner, Frederick M., 3,634,645.
 Lenehan, Bernard E., 3,654,483.
 Lensner, Herbert W.; and Ray, Roger E., 3,707,651.
 Lessmann, Gerald G., 3,632,143.
 Levine, Samson P.; Kugler, Ralph W.; and Cander, Anthony J., 3,685,376.
 Lewis, Ivor J., 3,684,236.
 Lewis, Ivor J., 3,704,726.
 Lewis, Ivor James; and Stone, John T., 3,687,017.
 Lind, Le Roger J., 3,690,785.
 Lipscomb, George Winfred, 3,691,547.
 List, William F.; and Anders, Roland A., 3,653,014.
 Lockie, Arthur M.; and Leonard, Merrill G., 3,686,603.
 Loftus, Wallace D., 3,634,747.
 Lord, Harry A., 3,632,099.
 Luce, John W., 3,633,415.
 Ludwig, Howard C., 3,683,139.
 Mallick, George T., Jr.; Carr, Walter J., Jr.; and Miller, Robert C., 3,686,564.
 Maniero, Daniel A.; and Wolf, Charles B., 3,697,612.
 Marmo, Anthony R., 3,663,413.
 Marmo, Anthony R., 3,684,703.
 Martin, Jack, 3,681,640.
 Martin, Jack; and Gorecki, Joseph S., 3,696,265.
 Masar, Edward J., 3,702,071.
 Masters, Robert W.; and Hanft, Herbert, 3,657,671.
 Maxwell, Albert H., Jr., 3,678,484.
 Mazur, Robert G., 3,697,873.
 Mc Keithan, Wesley L., 3,648,211.
 McAllister, William A., 3,632,522.
 McAllister, William A.; and Sausville, Joseph W., 3,644,212.
 McCoy, Robert A., 3,680,829.
 McGinnis, Gerald E., 3,647,392.
 McGuffie, Alan G., 3,689,721.
 McKeithan, Wesley L.; and Astleford, John J., 3,659,244.
 McLaughlin, Emmett J., 3,654,587.
 McLean, John A., 3,633,375.
 McLean, John A., 3,659,429.
 McLeod, Garth M.; Copeland, Clinton R.; and Rieger, Gilbert N., 3,675,287.
 McNall, John W., 3,658,068.
 McNally, Francis X.; and Chiosi, Louis, 3,641,353.
 McNally, John M.; and Molette, Albert H., Jr., 3,669,562.
 McShane, James L., 3,653,259.
 Meacham, James H., 3,643,024.
 Melamed, Nathan T.; Roland, George W.; and Hopkins, Richard H., 3,659,221.
 Mercer, Robert, 3,680,978.
 Mergerian, Dickron, 3,673,500.
 Metzler, Charles Walter, Jr., 3,635,585.
 Meyer, Mitchell I.; and Ambrose, Michael J., 3,707,074.
 Meyerhoff, Alfred; and Blake, Walter E., 3,683,492.
 Michael, Jacob F., 3,670,377.
 Middleditch, Alan E., 3,699,317.
 Milberger, Walter E., 3,636,476.
 Milberger, Walter E.; and Weigle, Wayne L., 3,700,928.
 Miller, Edward J., Jr., 3,684,924.
 Miller, Lalan G.; and Mills, John M., 3,636,422.
 Miller, Lalan G.; and Sanders, Terry D., 3,657,625.
 Miller, Robert C.; Carr, Walter J., Jr.; and Mallick, George T., Jr., 3,707,672.

Millson, William Q.; Ellis, Belvin B.; and Burkhardt, Charles E., 3,670,279.
 Mitchell, George F., Jr.; Morris, Robert D.; and Nevinsky, Michael, 3,681,728.
 Mock, James W.; and Bowen, William C., 3,645,800.
 Mole, Cecil J., 3,663,307.
 Moll, Charles J.; and Anderson, William C., 3,638,404.
 Moore, Harold R.; Robin, Haral T.; and Wallace, William B., 3,688,233.
 Moreland, William C., II, 3,648,732.
 Moreland, William C., II, 3,707,080.
 Moroney, John E., 3,681,697.
 Morris, Louis; and Specht, Theodore R., 3,678,428.
 Munson, William A., 3,647,198.
 Munson, William A., 3,690,632.
 Musa, Raiq S., 3,693,892.
 Nathanson, Harvey C.; and Wickstrom, Robert A., 3,672,985.
 Nathanson, Harvey C.; and Davis, John R., Jr., 3,681,134.
 Neff, William S., 3,679,532.
 Nelkin, Arthur; and Whittaker, Robert H., 3,699,693.
 Neudorfer, David H.; Crookston, Ronald W.; and Bertolino, August U., 3,662,128.
 Newell, George F.; and Kennedy, Paul G., 3,673,317.
 Newell, William E., 3,634,787.
 Nicholson, James F.; and Williams, Clarence, 3,657,643.
 Nix, Lawrence A., Jr.; and Balthis, David L., 3,676,591.
 Norden, Alexander R., 3,632,917.
 Norden, Alexander R., 3,636,291.
 Nugent, John L.; and Masters, Harvey M., 3,693,076.
 Nybo, Sigurd A., 3,666,625.
 Oberg, Albert E.; and White, Laurence E., 3,663,751.
 Ogland, Jon W., 3,643,177.
 Ogland, Jon W., 3,650,718.
 O'Keeffe, Terence W.; and Morris, Jerome R., 3,672,987.
 O'Keeffe, Terence W., 3,686,028.
 Olds, Richard G.; and Zammitt, Frank X., 3,681,665.
 O'Neill, Wilbur J., 3,656,196.
 O'Neill, Wilbur J., 3,688,770.
 Orosz, Alex, Jr.; and St. Clair, Lawrence B., 3,688,237.
 Ortolano, Ralph J., 3,700,353.
 Ortolano, Ralph J., 3,702,221.
 Osial, Thaddeus A.; and Ravas, Richard J., 3,668,548.
 Page, Derrick J., 3,652,905.
 Page, Derrick J.; and Brody, Thomas P., 3,652,907.
 Page, Derrick J.; and Raygor, Paul O., 3,669,060.
 Page, Derrick J.; and Driver, Michael C., 3,669,661.
 Paitantys, Tamas I., 3,689,691.
 Pakutka, Willard M.; Cerulli, Nicholas F.; and Scanlon, Gerald T., 3,636,297.
 Palazzolo, Salvatore E.; and McCaskey, Harold O., 3,707,296.
 Pankow, Edmund G., 3,693,130.
 Panson, Armand J.; and Ruka, Roswell J., 3,694,371.
 Patel, Himanshu M., 3,707,396.
 Patel, Nagar J., 3,689,720.
 Pattantys, Tamas I., 3,663,884.
 Pavlik, Norman M., 3,671,335.
 Perrin, Eugene M., 3,643,112.
 Perry, Robert H.; and Matty, Thomas C., 3,673,429.
 Peterson, Robert S., 3,686,551.
 Peterson, Robert S., 3,686,552.
 Petrinjak, Emerick J.; and Grasinger, William J., 3,635,411.
 Petrinjak, Emerick J.; and Grasinger, William J., 3,644,156.
 Petro, James; and Rively, Clair M., 3,663,793.
 Pettit, Lewis F., Jr.; and May, Thomas L., 3,684,942.
 Phifer, Clarence Gary, 3,638,638.
 Pincoffs, Peter H.; and Tisdale, Glenn E., 3,638,188.
 Pitkjaan, Elam, 3,688,149.
 Pollack, William, 3,702,019.
 Prescott, Herbert L., 3,663,951.
 Prescott, Herbert L., 3,690,739.
 Price, David B., 3,666,920.
 Putman, Richard E., 3,653,842.
 Rahaim, Thomas J.; and Mierley, George M., Sr., 3,656,862.
 Rahaim, Thomas J.; and Mierley, George M., Sr., 3,689,174.
 Raimondi, Albert A., 3,680,932.
 Rainone, Nicholas J., 3,639,800.
 Rainone, Nicholas J.; and Michael, Jacob F., 3,695,179.
 Ramsey, James E., Jr., 3,683,276.
 Ramsey, James E., Jr., 3,688,192.
 Ray, Roger E.; and Perez-Stable, Nicholas, 3,643,160.
 Redding, Arnold H., 3,692,429.
 Redecker, Henry W.; and Zisa, William J., 3,648,166.
 Reese, Frank L.; and Dakin, Hayes O., Jr., 3,665,133.
 Reeves, John R.; and Oliwa, Joseph E., 3,684,937.
 Reeves, John R.; and Hitchens, Gary O., 3,688,177.
 Restivo, Frank S., 3,705,352.
 Retzer, Theodore C.; and Kearney, Joseph P., 3,706,000.
 Reynolds, Arthur T., Jr., 3,680,139.
 Rhoton, Richard S.; and Thorne-Booth, George M., 3,657,663.
 Richardson, Douglas K.; and Johnson, John G., 3,635,580.
 Richardson, Douglas K., 3,648,479.
 Riedel, Ernest Paul; and Isaacs, Telma J., 3,639,252.
 Riekers, Henty G.; and Closs, Bradley P., 3,657,561.
 Riggins, Oral L., 3,696,315.
 Riley, John A., 3,667,061.
 Riley, John A., 3,699,442.
 Ristuccia, Donald J., 3,633,141.
 Ristuccia, Donald J., 3,652,812.
 Rively, Clair M.; and Petro, James, 3,701,880.
 Roberts, Steven L.; and Miller, Edward J., Jr., 3,668,379.
 Robertson, James D., 3,651,676.
 Robertson, James D., 3,700,379.
 Robin, Haral T., 3,643,196.
 Robin, Haral T.; and Boaz, Virgil L., 3,668,584.
 Rogers, Dow A., Jr., 3,695,984.
 Roidt, Robert M., 3,670,126.
 Roidt, Robert Michael; and Swanson, Bruce W., 3,659,065.
 Roland, George W.; Hopkins, Richard H.; and Melamed, Nathan T., 3,634,281.
 Roland, George W.; Hopkins, Richard H.; and Melamed, Nathan T., 3,686,586.
 Ropp, Richard C., 3,661,791.
 Ropp, Richard C., 3,679,452.
 Rosa, John, 3,707,648.
 Rubner, Tibor; Wavre, Andre; and Bednarek, John H., 3,652,933.
 Ruka, Roswell J.; and Panson, Armand J., 3,691,023.
 Rushing, Frank C.; Gilbert, Lynford W.; and Simon, Albert B., 3,635,547.
 Russell, James G., 3,691,413.
 Salemi, Nicholas A., 3,707,234.
 Salvati, John G.; and Walker, Eugene J., 3,652,961.
 Sandler, Yehuda L., 3,671,323.
 Sandler, Yehuda L., 3,682,707.
 Sarkozi, Miklos; Szabo, Andras I.; and Hite, Perry J., 3,697,896.
 Sattler, Frank A., 3,652,471.
 Sattler, Frank A., 3,668,175.
 Sattler, Frank A., 3,695,929.
 Saunders, Paul D., 3,642,380.
 Sausville, Joseph W., 3,663,473.
 Scala, Luciano C.; and Bartlett, Wilford O., 3,676,383.
 Schuster, Donald R., 3,669,170.
 Schwanenflugel, Paul J., 3,683,362.
 Scott, Eugene W., 3,704,925.
 Segar, William R., 3,672,308.
 Sege, George, 3,665,883.
 Sestrich, Donald E., 3,637,423.
 Shamash, Maurice B.; Staley, William W.; Denton, Charles I.; and Walton, Fred D., 3,683,105.
 Shaw, Bevil J., 3,635,769.
 Silva, Antonio Vicerte, 3,643,144.
 Silvestri, George J., Jr., 3,690,786.
 Simmonds, Leonard B.; and Botts, John C., 3,679,926.
 Sims, Robert J., 3,695,291.
 Singleton, Jack H., 3,684,401.
 Smith, Andrew W., Jr., 3,635,059.
 Smith, Andrew W., Jr., 3,694,636.
 Smith, Clarence M., 3,636,494.
 Smith, Norman E., 3,657,515.
 Snyder, Carl J., 3,659,287.
 Snyder, Carl J., 3,685,023.
 Snyder, Carl J., 3,689,836.
 South, William H.; and Keay, Frederick W., 3,652,920.
 South, William H., 3,654,519.
 South, William H.; and Dillman, Thayer L., 3,705,331.
 Spreadbury, Robert J., 3,659,191.
 Spreadbury, Robert J., 3,686,561.
 Staehlin, John H.; and Hacker, Philip S., 3,707,720.
 Stana, Regis R., 3,646,179.
 Stana, Regis R.; and Calderwood, Andrew S., 3,657,402.
 Sterret, John D., Jr., 3,704,609.
 Strull, Gene, 3,663,869.
 Strull, Gene, 3,673,011.
 Sun, Shan C.; and Raygor, Paul O., 3,678,339.
 Suozzo, John; and Savino, Henry C., 3,648,805.
 Swanson, John G., 3,671,819.
 Szabo, Andras I.; and Winkler, Charles L., 3,651,892.
 Szabo, Andras I., 3,652,949.
 Szabo, Andras I.; and Sarkozi, Miklos, 3,705,365.
 Szepest, Zoltan P. J.; and Novice, Michael A., 3,650,824.
 Taft, William G., 3,633,784.
 Tarneja, Krishan S.; Rossi, Vito A.; and McNally, James B., 3,666,574.
 Thompson, Francis I., 3,693,268.
 Thorne-Booth, George M., 3,672,611.
 Thornton, William A., 3,707,641.
 Thornton, William A., Jr.; and Unglert, Melvin C., 3,670,194.
 Thornton, William A., Jr., 3,707,642.
 Tisdale, Glenn E., 3,636,513.
 Traversi, Maurizio, 3,654,516.
 Trunzo, Floyd F.; and Scheidmantel, David A., 3,676,814.

Ulich, Michael D., 3,669,477.
 Urish, Joseph M., 3,657,633.
 Van Der Jagt, Anton, 3,685,882.
 Van Nice, Robert L., 3,673,530.
 Van Nice, Robert L., 3,705,371.
 Vancsa, Gyorgy I., 3,652,794.
 Villasor, Angel P., 3,632,117.
 Vinch, Angelo N.; and Kamulski, David A., 3,691,399.
 Vitek, Edmund J.; and Yeates, Robert A., 3,673,494.
 Vondracek, Charles H.; and Dunlap, Anne B., 3,694,942.
 Wachtel, Anselm, 3,669,897.
 Wagner, John T., 3,649,133.
 Walker, Alec H. B., 3,688,123.
 Wasemann, William A., 3,695,065.
 Watson, John D.; Thompson, Francis T.; and Johnson, Frederick O., 3,666,994.
 Wavre, Andre; and Santis, Dean, 3,654,607.
 Wavre, Andre, 3,654,608.
 Weimer, Charles L.; and Fouse, Samuel S., 3,683,313.
 Wentz, John L., 3,684,350.
 Werner, Kilbourne Ralph; and DiFerdinando, Frank L., 3,643,310.
 Whitney, Eugene C., 3,654,503.
 Wilburn, Garlington C.; and Michel, George P., 3,633,273.
 Williams, Wallace L.; and Wright, David F., 3,634,663.
 Willis, Thomas G., 3,686,450.
 Wilson, Thomas A.; and Collins, James D., 3,659,237.
 Wilson, James C., 3,657,679.
 Wilson, John I.; and Gary, Wardell, 3,697,810.
 Wilson, John R.; and Shariff, Sadig A., 3,676,749.
 Wilson, John R.; and Niemoller, Arthur B., 3,700,840.
 Wilson, John T., 3,634,730.
 Wilson, John T.; and Engel, Joseph C., 3,660,722.
 Wine, Robert R.; and Jacobsen, Jerome G., 3,641,791.
 Winkler, Charles L., 3,643,457.
 Winters, Thomas B., 3,632,049.
 Wise, Robert A., 3,658,071.
 Wise, Robert A., 3,692,979.
 Wolf, Charles B.; and Fey, Maurice G., 3,705,975.
 Wood, Gary R., 3,635,579.
 Wood, Peter, 3,684,898.
 Wood, Peter, 3,700,925.
 Wood, Peter, 3,706,024.
 Woodridge, James E.; and Yamasaki, George K., 3,648,092.
 Wootton, Horace; and Mierley, George M., Sr., 3,647,311.
 Yannopoulos, Lymperios N.; and Pebler, Alfred H., 3,707,643.
 Yannucci, Dean A., 3,702,452.
 Yannucci, Dean A.; Reichelsdorfer, Peter W.; Dorrycott, Joseph W.; and Russell, James G., 3,649,451.
 Yorgin, Nick; and Salvati, John G., 3,632,939.
 Yorgin, Nick; and Ellsworth, James P., 3,659,241.
 Yorgin, Nick; and Salvati, John G., 3,707,612.
 Young, Robert R.; and English, William A., 3,643,120.
 Young, Robert R.; and English, William A., 3,680,984.
 Zerby, John C., 3,641,443.
 Zickar, Frank R.; Benke, Frank W.; and Rotruck, James L., 3,657,808.
 Zuerblis, Joseph R.; and Vancsa, Gyorgy I., 3,659,048.
 Westinghouse Electric Corporation, mesne: See—
 Olds, Richard G.; and Bonzack, Eugene P., 3,683,238.
 Schnur, Earl J.; and Vinch, Angelo N., 3,654,539.
 Westinghouse Learning Corporation: See—
 Brudner, Harvey J., 3,654,708.
 George, Richard Willis, 3,646,325.
 Heal, David; and Parks, James D., 3,698,709.
 Mc Millin, John V.; and Miller, D. Larry, 3,676,690.
 McMillin, John V., 3,692,982.
 Westlake, Edward B., Jr. Apparatus and method of making round bottom plastic liners for shipping containers. 3,671,349, 6-20-72, Cl. 156-229.000.
 Westlake, Edward B., Jr. Method of producing a plastic shopping bag. 3,671,350, 6-20-72, Cl. 156-250.000.
 Westlake, Edward B., Jr. Plastic pallet. 3,680,496, 8-1-72, Cl. 108-58.000.
 Westland Aircraft Limited: See—
 Basham, Edgar William James; and Tizard, Kenneth Wilfrid, 3,675,649.
 Flux, Peter John, 3,700,351.
 Furlong, Owen D.; Rowe, Alan C.; and Wright, Eric F., 3,677,293.
 Furlong, Owen Desmond, 3,703,139.
 Furlong, Owen Desmond, 3,706,270.
 Furlong, Owen Desmond Arthur Charles; and Bottrell, Neil L., 3,676,238.
 Watson, Kenneth, 3,672,213.
 Westland Gummiwerke GmbH & Co.: See—
 Pott, Richard, 3,633,428.
 Westland, Roger D.; to Parke, Davis & Company. Sulfur compounds and methods for their production. 3,651,076, 3-21-72, Cl. 260-306.8.
 Westlin, Karl L.; and Welch, Wilson A., to American Air Filter Company, Inc. Filter frame construction. 3,659,719, 5-2-72, Cl. 210-483.
 Westlin, Karl L.; and Getzin, Allan R., to American Air Filter Company, Inc. Filter support construction. 3,668,843, 6-13-72, Cl. 55-501.000.
 Westling, Donald E. Machine for shredding cheese and for depositing the cheese onto pizzas. 3,662,677, 5-16-72, Cl. 99-450.1.
 Westlund, Linda K. Collapsible artificial Christmas tree. 3,677,867, 7-18-72, Cl. 161-14.000.
 Westlund, Robert L., to Western Electric Company, Incorporated. Electrical component testing apparatus having a temperature compensating circuit. 3,633,098, 1-4-72, Cl. 324-62.
 Westmaier, Josef; and Bamberg, Paul, to International Standard Electric Corporation. Mechanical drive. 3,682,006, 8-8-72, Cl. 74-89.200.
 Westman, Morton A.: See—
 Cinnamon, Jerome Marshall; and Westman, Morton A., 3,646,216.
 Westman, Thomas L.: See—
 Wildi, Bernard S.; and Westman, Thomas L., 3,634,258.
 Westman, Thomas L., to Monsanto Company. Enzymatic processing with polymer-enzyme product. 3,649,457, 3-14-72, Cl. 195-68.
 Westminster Engineering Company Limited, The: See—
 Meacher, John Wyatt; and Pile, David Stanley, 3,654,418.
 Westmore, Anna Mira: See—
 Krauss, Walter Francis Henry; and Westmore, Norman Ernest, 3,664,489.
 Westmore, Norman Ernest: See—
 Krauss, Walter Francis Henry; and Westmore, Norman Ernest, 3,664,489.
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 Potter, Charles William, 3,685,127.
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 Friedman, Lester, 3,655,831.
 Rattenbury, Kenneth, 3,651,178.
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 Andreaggi, Joseph, 3,659,061.
 Boreas, Willem J. L., 3,678,383.
 Hoppes, Ronald R., 3,662,160.
 Luedeman, Robert T.; and Troeger, Walter Alvin, 3,690,955.
 Luedeman, Robert T., 3,696,677.
 Montpas, Henri L., 3,654,475.
 Southwell, Geoffrey, 3,660,796.
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Sakamoto, Wayne Y.; Westphal, Stephen Roger; and Fletcher, Franklin I., 3,686,794.
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Rutten, Hendrikus S.; Kruisman, Gerard; de Groot, Johan; Westra, Simon; and Bavelaar, Abraham P., 3,651,525.
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Clafin, Hyle K.; and Belke, Jack T., 3,658,359.
Dalton, Thomas B.; and Bundt, Emil E., Jr., 3,666,290.
Dalton, Thomas B., 3,682,497.
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Westenberger, John Marcus, 3,705,984.
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Dennis, John D.; and Winkler, James M., 3,683,404.
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Al-Shaikh, Abdul-Rahman A., 3,661,701.
De Matte, Michael L., 3,702,801.
Dimitri, Mitchell S.; and Nissan, Alfred H., 3,699,091.
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Dougherty, Walter K., 3,634,387.
Falkehaag, Sten I.; Bills, Alan M.; and Hintz, Harold L., 3,663,358.
Falkehaag, Sten I.; Moorer, Howard H.; Prazak, Gerald; and Bailey, Carl W., III, 3,672,817.
Falkehaag, Sten I., 3,697,497.
Forbes, Hampton E., Jr.; and La Freniere, Lawrence J., 3,640,447.
Futch, James M., Jr., 3,649,444.
Herglotz, Harold J., 3,635,393.
Hill, D. Brian R., 3,670,645.
Huang, Denis K., 3,687,884.
Huether, Charles H., 3,658,697.
Hughes, William W., 3,669,341.
Johnson, Homer R., 3,639,265.
Koches, Charles F., 3,647,716.
Lokey, Burke P., 3,650,460.
Maynard, Maurice J., 3,671,298.
Michaelsen, Alfred L., 3,673,865.
Osborne, Edward L.; and Wagner, Franklin J., 3,666,165.
Owens, Edwin G.; and Wiley, Joseph J., Jr., 3,643,611.
Shelor, Clifford D., 3,661,099.
Shelor, Clifford D., 3,661,703.
Torrence, Samuel L., 3,632,314.
Torrence, Samuel L., 3,660,032.
Torrence, Samuel L., 3,667,908.
Touzinsky, Gerald F.; and Maurer, Hans W., 3,640,925.
Veneziale, Lee E., Jr., 3,663,341.
Voytko, Joseph, 3,658,233.
Wagner, Franklin J., 3,635,451.
Willett, George L., 3,706,177.
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Hollox, Graham E.; Precht, Walter; Lye, Robert G.; and Westwood, Albert R. C., 3,661,599.
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Fawcett, Richard; Smith, Arthur William; and Westwood, David, 3,694,169.
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Spangler, Frederick E.; and Wetherell, Daniel L., 3,662,459.
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McCollough, John K.; Sanders, Grady H.; and Wethington, Charles A., 3,633,959.
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Campbell, James W., 3,662,798.
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Albertson, Noel F.; and Wetterau, William F., 3,678,056.
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Charman, Walter M., Jr.; Hayes, Robert R.; Middaugh, George J., Jr.; and Wetzig, John M., III, 3,697,631.
- Wetzlar, Johann Spincic: *See—*
Bromer, Heinz; Meinert, Norbert; Wetzlar, Johann Spincic; and Staaden, Hans, 3,690,905.
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Rosenfeld, Howard; and Wetzler, Justin J., 3,686,899.
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Beasley, Noel F.; and Wever, Ray, 3,702,515.
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Mihalyi, Richard F.; and Wexler, Yale R., 3,656,974.
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Ranz, Erwin; Weyde, Edith; and Von Rintelen, Harald, 3,705,033.
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Weber, Helmut; Weyer, Rudi; Aumuller, Walter; Muth, Karl; and Stach, Kurt, 3,655,756.
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Arnold, Eugene W.; and Hasenwinkle, Earl D., 3,693,721.
Bell, Jack T.; and Smith, Barton K., 3,673,764.
Brookhyser, Byron B., 3,674,256.
Brookhyser, Byron B., 3,690,649.
Brookhyser, Byron B., 3,704,882.
Dedrick, Dallas S., 3,675,336.
DeHaas, Gerrit G.; Clark, Leslie H.; and Lang, Charles J., 3,634,353.
Fairfield, Louis R., Jr.; Van Vliet, Raymond A.; and McLaughlan, Thomas A., 3,674,065.
Freeman, Harlan G.; Baxter, Gene F.; and Howell, John T., 3,663,481.

- Freeman, Harlan G.; and Gillern, Maurice F., 3,704,269.
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- Geib, Thomas E., 3,675,015.
- Hanko, Jimmy J., 3,669,253.
- Kreibich, Roland E.; Freeman, Harlan G.; Baxter, Gene F.; and Kumli, Karl F., 3,634,276.
- Neitzke, Nicholas R.; and Adams, Chester F., Jr., 3,692,231.
- Robinson, Ray M., 3,669,336.
- Schillinger, Joseph F., 3,679,124.
- Shelton, Ray T.; and Jensen, Ellsworth O., 3,684,649.
- Sheridan, John L., 3,677,808.
- Stiles, Lester W., 3,705,847.
- Striplin, Charles D., 3,673,928.
- Strobel, Keene S., 3,700,016.
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Lehmann, Karl Friedrich; and Weygant, Robert Miller, 3,680,679.
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Marboe, Evelyn C.; and Weyl, Woldemar A., 3,642,651.
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De Pree David O.; Weyland, Herman H.; and Gold, Marvin H., 3,658,729.
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Nickerson, Ralph F.; and Weymouth, Harold D., 3,700,611.
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Schaab, Carl K.; Weyrauch, George T.; and Davis, Terry R., 3,674,589.
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Lystager, Gregers, 3,704,519.
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Fischer, Raymond P.; and Whalen, John F., 3,663,269.
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Adler, Laszlo; and Whaley, Hubert L., 3,662,589.
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Walsh, John H.; Whalley, Basil J. P.; and Botham, John C., 3,637,464.
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Cox, Robert P.; and Fish, Leonard A., 3,705,669.
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Marsh, Richard P.; and Whannel, Ralph F., 3,635,613.
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Goun, Nathan M.; and Wheatley, Carl F., Jr., 3,665,256.
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Einhoven, Willem Gerard; Jetter, Evelyn Speter; and Wheatley, Carl Franklin, Jr., 3,676,229.
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Wheatley, Charles, 3,687,155.
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Vogelsberg, Walter H., 3,675,044.
Wheaton, Theodore C., III; and Mikus, Daniel J., 3,704,723.
Wheaton, Theodore C., III; and Panas, Walter, 3,706,517.
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Geisler, Russell W.; and Wheaton, John W., 3,659,581.
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Claeys, Ronald, 3,696,565.
Leliaert, Raymond M., 3,678,629.
Leliaert, Raymond M., 3,683,556.
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Risberg, Robert L.; and Wheeler, Blakeslee G., 3,636,298.
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Chaplin, Richard W.; Holscher, Donald J.; Wasney, Albert, Jr.; and Wheeler, Bryce A., 3,641,261.
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- Wheeler, Harry L., Jr. Compressed air filter. 3,703,069, 11-21-72, Cl. 55-337.000.
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Mifflin, Ralph W.; Wheeler, Joseph P.; and Massoud, Joseph T., 3,641,433.
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Clay, Robert A., 3,695,582.
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Ruff, John D.; and Wheeler, Phillip R., 3,668,883.
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Arumugham, Rangaswamy; and Wheeler, Robert Charles, 3,670,095.
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Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., 3,661,282.
Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., 3,682,296.
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Robertson, David D.; and Wheeler, William R., 3,666,377.
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Hailey, Robert W., 3,689,259.
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- Wheelock, Larry A.: See—
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- Wheelock, Lee V. Single lever valve. 3,693,660, 9-26-72, Cl. 137-625.400.
- Wheelus, Charles Glenn, to Arizona Chemical Company, mesne. Acetic anhydride modified disproportionated resin. 3,700,634, 10-24-72, Cl. 260-97.500.
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Jackson, George W.; and Whelan, James E., 3,671,150.
- Whelan, James E., to General Motors Corporation. Semi-closed loop automatic leveling system. 3,667,775, 6-6-72, Cl. 280-124.
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Cyr, Steven J.; Whelan, Mark W.; and Jones, Kenneth L., 3,633,785.
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Robinson, Denis; Whelan, Richard Howard; Katz, Philip Harvey; and Montuori, Anthony George, 3,682,663.
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- Wherry, Joseph L.; and De Angelis, Eugene, to Toledo Stamping & Manufacturing Company. Trailer hitch and brake actuator. 3,682,278, 8-8-72, Cl. 188-112.000.
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Pieper, Don B., 3,672,164.
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- Whipp, Eugene F.: See—
Slayton, Jack E.; and Whipp, Eugene F., 3,695,487.
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Sutphin, John A.; and Whippen, Marlen G., 3,642,961.
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Mueller, Marvin C., 3,653,639.
- Whirlpool Corporation: See—
Barnard, Walter C., 3,707,335.
Becker, Stephen A.; and Knoop, Donald E., 3,665,159.
Berry, William R.; Drews, Reinhold A.; and Grau, Julius J., 3,673,592.
Blatchford, John K.; Peterson, Edward C.; and Burda, Jan C., 3,679,473.
Blatchford, John K.; Peterson, Edward C.; and Burda, Jan C., 3,694,627.
Bottas, Michael J.; and Difley, Charles R., 3,636,862.
Bottas, Michael J.; and Difley, Charles R., 3,667,381.
Bunnell, Douglas E.; and Walker, Douglas J., 3,696,970.
Clearman, Jack F., 3,654,770.
Clearman, Jack F.; Ohlsson, Leonard W.; and Mackin, Michael H., 3,662,564.
Cowaa, Richard L., 3,681,947.
Darby, James G.; and Clearman, Jack F., 3,704,599.
Davis, James E.; and Frick, Harold L., 3,659,578.
Doner, John T., 3,677,259.
Drews, Reinhold A.; and Grau, Julius J., 3,635,491.
Elders, Alvin J., 3,681,729.
Fellwock, Charles G.; and Tuley, Donald L., 3,675,271.
Frohbieter, Edwin H., 3,639,087.
Gast, Gerald E., 3,677,519.
Getz, Edward H., 3,636,734.
Getz, Edward H., 3,686,554.
Harrison, Bobby G.; and Esche, Charles D., 3,640,087.
Heth, Gene A., 3,635,044.
Houghton, Larry R., 3,678,392.
Janke, Donald E., 3,702,030.
Karklys, Joseph, 3,639,844.
Karklys, Joseph, 3,662,186.
Karklys, Joseph; and Becker, Stephen A., 3,688,170.
Keiser, John E.; and Krieger, Earl, 3,647,509.
Kretschman, Gerald L., 3,684,096.
Krolziak, Gordon J., 3,678,714.
Krugger, Roy W., 3,638,452.
Lampman, William T.; and Wade, Charles H., 3,665,943.
Lichtenberger, Harley, 3,638,449.
Linstromberg, William J.; and Nichols, Duane C., 3,643,458.
Linstromberg, William J., 3,648,476.
Linstromberg, William J., 3,648,478.
Linstromberg, William J., 3,675,437.
Lyman, John B., 3,648,462.
Lyman, John B., 3,686,890.
Lyman, John B., 3,702,543.
Malz, Ute K., 3,683,599.

- Mason, Anthony, 3,639,998.
- Nichols, Duane C., 3,643,456.
- Nichols, Duane C.; and Linstromberg, William J., 3,659,430.
- Nichols, Duane W., 3,677,030.
- Nordeen, Erwin E., 3,675,268.
- Nordeen, Erwin E., 3,676,892.
- Nordeen, Erwin E., 3,683,449.
- Nystuen, Arne M., 3,697,841.
- Ohlsson, Leonard W.; and Von Arb, Edward J., 3,707,334.
- Platt, Clark I., 3,653,807.
- Ripco, William B.; and Dietrich, John W., 3,673,824.
- Romerhaus, Bert W., 3,639,083.
- Rosinski, Alexander B., Jr.; and Wiessner, Edward E., 3,648,486.
- Rutkowski, Beverly J., 3,677,820.
- Samuelson, Bruce E.; and Dunst, Robert A., 3,655,927.
- Schmitz, Joseph F.; and Hilmanowski, James R., 3,633,241.
- Schnepper, Russel F., 3,659,539.
- Scroop, Francis R.; and Gebhard, John F., 3,650,129.
- Sisk, George William, Jr.; Miller, Arthur William; and Koleszar, Frank, 3,677,166.
- Skinner, Frank R., II; and Wigfall, Robert T., 3,665,960.
- Tichy, Oscar A. W., 3,674,419.
- Tobey, Raymond E., 3,683,636.
- Turner, Phillip H., 3,643,454.
- Turner, Phillip H.; and Lyman, John B., 3,678,702.
- Warner, Milton Young, 3,676,021.
- Westergren, George A., 3,675,399.
- Zenz, Fred J., 3,643,349.
- Zenz, Fred J., 3,670,143.
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Whistler, Lawrence V., Sr.; and Whistler, Lawrence V., Jr., 3,641,860.
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- Whistler, Roy L., to Purdue Research Foundation. Dimethyl sulfoxide-sulfur trioxide complexes. 3,699,170, 10-17-72, Cl. 260-607.00d.
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Bushman, Bliss M.; and Whistler, Wayne J., 3,648,047.
- Whistler, William T., to General Electric Company. Switch-controlled directional coupler. 3,659,227, 4-25-72, Cl. 333-7.
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Greenberg, Jacob; and Whitaker, Douglas C., 3,642,583.
- Whitaker, Earl J.: See—
Greenspan, Lawrence E.; and Whitaker, Earl J., 3,665,402.
- Whitaker, Michael E., to Gullick Dobson Limited, Inc. Mine roof supports. 3,646,768, 3-7-72, Cl. 61-45.
- Whitaker, Noble D., to BMI Laboratories. Method for making thermosetting resinous abrasive tools. 3,661,544, 5-9-72, Cl. 51-295.
- Whitaker, Ritchie W.: See—
Kosmala, Ronald W.; and Whitaker, Ritchie W., 3,650,508.
- Whitaker, Robert B.: See—
Taylor, Floyd R.; and Whitaker, Robert B., 3,671,041.
- Whitaker, Wiley M. Broom having a removable pivotable handle. 3,704,479, 12-5-72, Cl. 15-172.000.
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- Whitaker, William T.: See—
Smyth, James A.; and Whitaker, William T., 3,695,074.
- Whitakercable Corporation: See—
Berry, Norman H., 3,686,607.
- Whitbread, Frederick John: See—
Cole, Robert Templeman; Whitbread, Frederick John; and Downer, John Colin, 3,690,086.
- Whitby, Herbert C.: See—
Rice, Graham; Whitby, Herbert C.; and Dunn, Peter Douglas, 3,688,083.
- Whitcher, Gary R.: See—
Cahill, George N.; Stringer, Frederick D.; and Whitcher, Gary R., 3,688,370.
- Whitcomb, Newell E.: See—
Sipos, Donald J.; Steigerwald, Robert F.; and Whitcomb, Newell E., 3,672,876.
- Whitcomb, Stuart P., to Philco-Ford Corporation. Shelf structure. 3,633,983, 1-11-72, Cl. 312-306.
- White, Abram L.: See—
Nothum, Andrew; Thomas, Billy W.; and White, Abram L., 3,670,553.
- White, Addison C.: See—
Lard, Edwin W.; and White, Addison C., 3,654,073.
- White, Alan: See—
Davey, Ronald E.; Tomlinson, Charles N.; and White, Alan, 3,669,826.
- White, Alan Chapman: See—
Cavalla, John Frederick; Simpson, Roy; and White, Alan Chapman, 3,703,529.
- White, Albert: See—
Bryant, Clifford F., 3,696,530.
- White, Albert H., to Chandler Evans Inc. Integral fuel control. 3,672,163, 6-27-72, Cl. 60-39.28r.
- White, Albert H., to Chandler Evans Inc. Turbine engine starting circuit. 3,686,859, 8-29-72, Cl. 60-39.14r.
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- White, Allwyn M., to Automation Industries, Inc. Ultrasonic search unit with rolling contact. 3,636,756, 1-25-72, Cl. 73-71.5.
- White, Alvin S., to Singer-General Precision, Inc. Flight path display instrument. 3,648,232, 3-7-72, Cl. 340-27.
- White, Arlton H.; and Chapman, John S. Breathing assist apparatus. 3,683,655, 8-15-72, Cl. 128-30.200.
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- White, Arnold George; Smith, Thomas Edward; Work, Lyall Campbell; and Miller, Willard Wallace, to Cominco Ltd. Electrothermally concentrating an aqueous electrolyte. 3,664,929, 5-23-72, Cl. 203-10.
- White, Arthur R.: See—
Whitacre, Horace E.; and White, Arthur R., 3,662,661.
- White, Basil: See—
Snoy, Joseph B.; and White, Basil, 3,631,953.
- White, Billy C. Automatic temperature control apparatus for poultry houses and the like. 3,669,350, 6-13-72, Cl. 236-49.000.
- White, Bobby J.: See—
Smith, Clifford E.; and White, Bobby J., 3,641,184.
- White, Bradford C., to Gulf Research & Development Company. Catalytic process including continuous catalyst infection without catalyst removal. 3,694,351, 9-26-72, Cl. 208-213.000.
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- White Castle System, Inc.: See—
Johnston, William D.; and Long, William J., 3,645,196.
- White, Charles E.: See—
Hoffmann, Donald R.; and White, Charles E., 3,691,799.
Pedersen, Daryl R.; and White, Charles E., 3,631,921.
- White, Charles H.: See—
Knudson, Louis I.; Frink, Richard C.; and White, Charles H., 3,671,788.
- White, Charles S. Method of constructing a ball type bearing. 3,654,683, 4-11-72, Cl. 29-149.5.
- White, Charles Victor Burdett: See—
Johnson, Harold Hector; South, Derek Bye; and White, Charles Victor Burdett, 3,678,282.
- White, Clark Woody: See—
Tolk, Norman Henry; and White, Clark Woody, 3,644,044.
- White, Colin Graham, to Marconi Company Limited, The. Clock oscillator arrangements. 3,662,277, 5-9-72, Cl. 331-2.
- White, David B.: See—
Knabusch, Edward M.; Shoemaker, Edwin J.; and White, David B., 3,695,701.
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Nathanson, Fred E.; and White, David M., 3,702,476.
- White, David R.: See—
Ayer, Donald E.; and White, David R., 3,689,511.
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- White, Donald J.; and Navin, William R., Jr., to General Instrument Corporation. Contour mapping system. 3,641,484, 2-8-72, Cl. 340-3.
- White, Donald Patrick: See—
Everitt, Kenneth John, 3,659,289.
- White, Dorothy E., to Hercules Incorporated. Hot melt coating composition. 3,657,171, 4-18-72, Cl. 260-27.
- White, Douglas F., to American Standard, Inc. Apparatus and method for measuring the velocity of a flowing fluid. 3,650,152, 3-21-72, Cl. 73-194.
- White, Douglas L.: See—
Buchholz, Donald E.; Miller, Robert E.; Pickering, Richard W.; and White, Douglas L., 3,634,887.
- White, Dwain M., to General Electric Company. Bis(polyphenylene oxide)-ester block copolymers. 3,703,564, 11-21-72, Cl. 260-860.000.
- White, Edward Bailey: See—
Whitney, Ian; White, Edward Bailey; and Rowland, Michael Roger, 3,700,511.

- White, Edward Gates. Convertible antenna-mounting structure. 3,683,392, 8-8-72, Cl. 343-805.000.
- White, Edward L.; and Lang, William D., to NL Industries, Inc. Metallic salts of mixed acids as stabilizers for rigid vinyl resin compositions. 3,645,944, 2-29-72, Cl. 260-23.
- White, Ellis S.: *See—*
Graybill, Robert W.; Reiber, Stanley C.; Nace, Donald W.; and White, Ellis S., 3,667,747.
- White, Eugene B., to Ken-Flo Products Corporation. Aquarium filter device. 3,693,798, 9-26-72, Cl. 210-169.000.
- White Farm Equipment Company: *See—*
Coleman, William S.; McGraw, Michael J.; and Syverson, Lowell W., 3,645,367.
Cottrell, Samuel H.; and Montgomery, Sam R., 3,664,453.
Cottrell, Samuel H., 3,664,454.
Kalmon, Dennis H., 3,653,446.
Ronayne, Ronald J.; and Ketterling, Edwin, 3,669,229.
- White, Frank F., to Automation Development Corporation. Bar feeder and escapement device. 3,655,067, 4-11-72, Cl. 214-1.
- White, Fred K., to Mulwhiteson Development Company. Device for measuring specific gravity of fluids. 3,631,727, 1-4-72, Cl. 73-440.
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- White, Gary O. Active linear discriminator circuit. 3,667,062, 5-30-72, Cl. 329-142.
- White, Gary Wayne: *See—*
Kummer, Charles Karl; Walters, Roger E.; and White, Gary Wayne, 3,689,276.
- White, George A.: *See—*
Davidson, Arthur R.; Haubner, John E.; and White, George A., 3,642,495.
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- White, George H.; and Dunn, William J., to Modoy, Inc. Car top cabin. 3,635,515, 1-18-72, Cl. 296-23.
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- White, Halbert C.: *See—*
Wysong, Don V.; and White, Halbert C., 3,660,423.
- White, Harry Gregory: *See—*
Logan, Ralph Andre; White, Harry Gregory; and Wiegmann, William, 3,646,406.
- White, Herschel T.: *See—*
Gardiner, John B.; and White, Herschel T., 3,692,599.
- White, Hollis N., Jr.; and Bough, Dale E., to TRW Inc. Hydraulic pump motor. 3,687,578, 8-29-72, Cl. 418-21.000.
- White, Idas B., to Eaton Yale & Towne Canada Limited. Tree-harvesting apparatus. 3,665,985, 5-30-72, Cl. 144-34.00e.
- White, Ira C. Ear syringe. 3,651,808, 3-28-72, Cl. 128-232.
- White, Irvine Everard, to Illingworths (Plastics) Limited. Container with pivoted contents removing cover. 3,651,978, 3-28-72, Cl. 220-30.
- White, James A.: *See—*
Bock, Robert V.; Rehhauser, Frederick; Earnest, Elmer Dean; Gerbstadt, Frederick H.; and White, James A., 3,654,621.
De Santis, Alfred J.; Beers, Le Roy W.; White, James A.; and Moyses, John A., 3,680,058.
- White, James C. Process of bending structural members and tool therefor. 3,636,690, 1-25-72, Cl. 52-633.
- White, James C., to Propper Manufacturing Co., Inc. Apparatus for manufacturing assemblies of closed glass tubes each with a pellet therein. 3,652,249, 3-28-72, Cl. 65-156.
- White, James C. Binder. 3,663,041, 5-16-72, Cl. 281-49.
- White, James C., to Propper Manufacturing Co., Inc. Apparatus for grinding glass slides or the like. 3,667,166, 6-6-72, Cl. 51-92.
- White, James C., to Propper Manufacturing Co., Inc. Slide conveyor system and method. 3,693,811, 9-26-72, Cl. 214-8.50g.
- White, James C., Jr.; and Wolfe, Roger L., to LeTourneau, R. G., Inc. Spreader skew arrangement. 3,656,795, 4-18-72, Cl. 294-67.
- White, James E., to Marathon Oil Company. Seismic diffraction scan. 3,638,176, 1-25-72, Cl. 340-15.5.
- White, James E., to Poly-Mech Products, Incorporated. Reversible cutter and holder assembly therefor. 3,660,878, 5-9-72, Cl. 29-98.
- White, James E.; and Oberhart, George S., to Day, Albert J., mesne. Encoded card readout system. 3,671,720, 6-20-72, Cl. 235-61.11c.
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- White, Jeffrey Douglas: *See—*
Wesson, Bobby Dean, 3,659,761.
- White, Jerome R., to Varian Associates. Microwave chamber having energy density control system. 3,665,140, 5-23-72, Cl. 219-10.550.
- White, Jerry E.: *See—*
Rao, Vemulapalli D.; Telang, Yeshwant P.; and White, Jerry E., 3,679,459.
- White, Jesse Oris; and Davis, Darwin Darrell, to Du Pont de Nemours, E. I., and Company. Preparation of straight chain dicarboxylic acids. 3,637,832, 1-25-72, Cl. 260-531.
- White, Jessie N.; and Roseby, Bernard, to Berkeley Steel Construction Company, Inc. Air lift pump. 3,672,790, 6-27-72, Cl. 417-108.000.
- White, John C.: *See—*
Vasas, Martin M.; White, John C.; and Alexander, Paul M., 3,662,769.
- White, John D.: *See—*
Goldstein, Kenneth S.; and White, John D., 3,662,343.
- White, John D. Controlled temperature bait bucket. 3,654,773, 4-11-72, Cl. 62-371.
- White, John G.: *See—*
Schwallier, Lando J.; Razal Albert J.; and White, John G., 3,675,450.
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- White, John U. Analytical instrument. 3,689,225, 9-5-72, Cl. 23-253.0pc.
- White, K. M. Company, Inc.: *See—*
Stichweh, James H.; Hornung, Stephen A.; and Duckwall, Paul, III, 3,645,361.
- White, Kenneth H.: *See—*
Jorgensen, Arnold J.; Bewley, Lawrence L.; and White, Kenneth H., 3,680,005.
- White, Kenneth H., to Collins Radio Company. Force hub sensor for control wheel steering. 3,705,530, 12-12-72, Cl. 73-136.00c.
- White, Kenneth Murray, to Western Rock Bit Company Limited. Trencher tooth mounting. 3,665,623, 5-30-72, Cl. 37-142.00a.
- White, Kenneth N.; and Meyer, Harold E. Slipjointed knockdown cabinet. 3,674,328, 7-4-72, Cl. 312-263.000.
- White, Kenneth N.; and Meyer, Harold E. Hand tool for applying edge banding to laminated plastic boards. 3,676,272, 7-11-72, Cl. 156-574.000.
- White, Kenneth N., 1/2% to Meyer, Harold and 1/2% to White-Meyer Products, Inc. Routing device with movable routing tool. 3,692,073, 9-19-72, Cl. 144-136.000.
- White, Laurence E.: *See—*
Oberg, Albert E.; and White, Laurence E., 3,663,751.
- White, Letcher T. Dust eliminating coal mining apparatus. 3,640,580, 2-8-72, Cl. 299-31.
- White, Lewis P. Apparatus for compacting trash. 3,657,999, 4-25-72, Cl. 100-192.
- White Lily Foods Company, The, mesne: *See—*
Drews, Harvey J.; and Raffensperger, Stanley P., 3,671,264.
- White, Malcolm Lunt: *See—*
Corby, William Joseph; Garbarini, Victor Charles; and White, Malcolm Lunt, 3,673,099.
- White, Martin; and Luff, Peter Purnell, to National Research Development Corporation. Production of films by vapor deposition and irradiation. 3,686,022, 8-22-72, Cl. 117-93.310.
- White, Matthew G. Deer and wild turkey feeder. 3,638,617, 2-1-72, Cl. 119-51.
- White, Maurice D. Table with top composed of removable panels. 3,688,707, 9-5-72, Cl. 108-159.000.
- White Memorial Medical Center: *See—*
Braun, Ernest J.; and Adams, Ralph M., 3,693,178.
- White, Michael S.: *See—*
Peronti, Anthony, 3,643,655.
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- White, Morris, Fashions, Inc.: *See—*
Lubliner, Milton, 3,669,169.
- White Motor Corporation: *See—*
Fradette, Joseph J., 3,678,266.
Hoffman, George M., 3,646,356.
Moon, Charles L., 3,638,629.
Moon, Charles L., 3,682,308.
Muir, Earl B., 3,667,439.
Plantan, Ronald S., 3,649,047.
Rodgers, John J., 3,696,732.
Singer, Robert B.; Muir, Earl B.; and Kotzar, Andrew J., 3,654,822.
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Maiste, Arved; and Robertson, Melvin F., 3,650,052.
Maiste, Arved; and Robertson, Melvin F., 3,664,348.

- Reedy, Albert J.; and White, Walter R., 3,666,532.
- White, Warren V.: *See—*
Ross, John M.; White, Warren V.; and Wortman, Robert R., 3,640,366.
Ross, John M.; and White, Warren V., 3,651,922.
- White Water International Ltd.: *See—*
White, Gordon F.; and Wilkinson, Adam R., 3,654,119.
- White, Wilfred Arthur Stephen: *See—*
Stone, Eric William; and White, Wilfred Arthur Stephen, 3,663,160.
- White, William A.: *See—*
Ludwig, Nelson H.; and White, William A., 3,674,869.
Weingarten, Harold I.; White, William A.; and Chupp, John P., 3,636,110.
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- White, William E., Jr., to Hydro Tech Services, Inc. Adjustable length coupling. 3,695,634, 10-3-72, Cl. 285-31.000.
- White, William E., Jr.; and Billingsly, Lloyd E., to Hydrotech Services, Inc. Apparatus for joining pipes in a hostile environment. 3,707,025, 12-26-72, Cl. 29-200.00p.
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Boerger, Frank E.; and White, William H., 3,650,042.
- White, William Kenneth, Jr., to Grinnell Corporation. Diaphragm valve. 3,631,882, 1-4-72, Cl. 137-312.
- White, William R.: *See—*
Chemtob, Elie M.; and White, William R., 3,635,338.
Chemtob, Elie M.; White, William R.; and Marcote, Rolando V., 3,675,773.
- White, Winston Wayne, to Motorola, Inc. RF directional power monitor. 3,694,747, 9-26-72, Cl. 324-95.000.
- White-Meyer Products, Inc.: *See—*
White, Kenneth N., 3,692,075.
- Whitear, Brian Ronald David: *See—*
Pratt, John McDonald; and Whitear, Brian Ronald David, 3,701,660.
- Whited, Charles A.: *See—*
Hayne, Thomas F.; and Whited, Charles A., 3,684,890.
- Whitefin Holding S.A.: *See—*
Teotino, Umberto; and Della Bella, Davide, 3,646,146.
Teotino, Umberto; and Della Bella, Davide, 3,706,750.
Teotino, Umberto M., 3,651,235.
- Whitehall Electronics Corporation: *See—*
Pearson, Raymond H., 3,660,809.
- Whitehead & Kales Company: *See—*
Blunden, Donald J., 3,685,856.
Peisner, Israel D.; Stol, George H.; and Gotcher, Eugene D., 3,673,969.
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Melcher, Ronald E.; and Somers, Robert W., 3,692,550.
- Whitehead, Calvert W.; and Traverso, John J., to Lilly, Eli, and Company. 5-Chloro-2,4-bis(sulfamoyl)fluorobenzene and 5-chloro-2,4-bis(chlorosulfonyl)fluorobenzene. 3,668,248, 6-6-72, Cl. 260-543.00r.
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Williams, Frank Ronald; Whitehead, Jack; Marshall, Jefferson; Connors, Alan; and Gosden, Derek Vernon, 3,649,243.
Williams, Frank Ronald; Whitehead, Jack; Marshall, Jefferson; Connors, Alan; and Gosden, Derek Vernon, 3,677,740.
- Whitehead, Jack D., to International Products, Inc. Log lighter. 3,696,801, 10-10-72, Cl. 126-92.00r.
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Sze, Morgan C.; Bauer, William V.; Long, Raymond H.; Bloomer, Ward J.; and Whitehead, Richard T., 3,642,465.
- Whitehead, Thomas W., Jr., to United States of America, Air Force. Inhomogeneity variable magnetic field magnet. 3,659,236, 4-25-72, Cl. 335-210.
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Dahlquist, John A.; Marlor, Guy A.; and Whitehorn, Richard M., 3,684,365.
- Whitehouse, Dale S.: *See—*
Cooper, Hugh; Whitehouse, Dale S.; and Womble, George E., 3,669,193.
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- Whitehouse, Harper John: *See—*
- White, Neil S.; Wenschhof, David E.; and Mosman, Richard R., to Eastman Kodak Company. Method and apparatus for exposing a portion of a photographic strip. 3,694,083, 9-26-72, Cl. 355-133.000.
- White, Niles C.: *See—*
Ayers, Orval E.; and White, Niles C., 3,662,555.
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- White, Norman S., to Sampson Corporation, The. Liquid medicine applicator. 3,670,730, 6-20-72, Cl. 128-222.000.
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Malandro, George H.; and White, Peter, 3,676,849.
- White, Peter G., to TRW Inc. Spectrometer with rotary scanning disc and method of spectroscopic analysis. 3,700,331, 10-24-72, Cl. 356-83.000.
- White, Pierce H., Jr. Livestock insecticide applicator. 3,677,233, 7-18-72, Cl. 119-157.000.
- White, Quentin M.: *See—*
Arpajian, Vasken F.; and White, Quentin M., 3,661,485.
- White, Randall F.: *See—*
Summer, James R.; and White, Randall F., 3,692,144.
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- White, Raymond F.: *See—*
Demain, Arnold L.; Chmerda, John M.; and White, Raymond F., 3,635,795.
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Underkoffler, Victor S.; and White, Richard B., 3,699,318.
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- White, Ronald E.: *See—*
Dort, Ronald A.; and White, Ronald E., 3,652,328.
- White, Ronald E.; and Gardlund, Zachariah G., to General Motors Corporation. Laminated transparent abrasion resistant article. 3,652,379, 3-28-72, Cl. 161-183.
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Dransfield, Desmond; Bass, Patrick; White, Roy Ernest; and Bracken, Leslie Thomas, 3,676,876.
- White, Rudolph C.: *See—*
Barnes, Vernon M., Jr.; and White, Rudolph C., 3,684,256.
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- White, Sheldon S.: *See—*
Dubuc, Rene A.; White, Sheldon S.; and Willoughby, Joseph A., 3,686,457.
- White, Stanley A.: *See—*
Golden, Roger M.; and White, Stanley A., 3,639,739.
- White, Stanley E.: *See—*
Hestad, Alfred M.; and White, Stanley E., 3,660,610.
- White, Stanley F. Magnetic assembly for loudspeaker. 3,660,618, 5-2-72, Cl. 179-115.5.
- White, Thomas G.: *See—*
Decker, Robert M.; Patena, Michael D.; and White, Thomas G., 3,686,531.
- White, Thomas Paul, Sr. Skate boot. 3,659,361, 5-2-72, Cl. 36-2.5al.
- White, Walter D. Automatically retractable truck cover. 3,656,802, 4-18-72, Cl. 296-100.
- White, Walter R.: *See—*

- Lindsay, George F.; Sullivan, Shelby F.; and Whitehouse, Harper John, 3,670,151.
 Lindsay, George F.; and Whitehouse, Harper John, 3,675,052.
 Means, Robert W.; and Whitehouse, Harper John, 3,633,118.
 Sullivan, Shelby F.; and Whitehouse, Harper John, 3,632,703.
 Whitehouse, Harper John; and Sullivan, Shelby F., to United States of America, Navy. Self-supporting transducer assembly. 3,663,934, 5-16-72, Cl. 340-9.000.
 Whitehouse, Harper John, to United States of America, Navy. Surface wave devices for signal processing. 3,701,147, 10-24-72, Cl. 340-347.0da.
 Whitehouse, Hugh L., to Stanley Works, The. Power tool having proportioning transmission. 3,666,021, 5-30-72, Cl. 173-12.
 Whitehouse, Maynard L.: See—
 Strobel, Albert F.; and Whitehouse, Maynard L., 3,704,293.
 Whitehouse Products, Inc.: See—
 Rigolini, Venerio J., 3,648,943.
 Rigolini, Venerio J., 3,675,556.
 Whitehouse, Robert George, to Ferro Corporation. Furnaces. 3,669,426, 6-13-72, Cl. 263-8.00r.
 Whitehurst, Darrell Duayne: See—
 Haag, Werner O.; and Whitehurst, Darrell Duayne, 3,635,761.
 Haag, Werner O.; and Whitehurst, Darrell Duayne, 3,668,271.
 Whitehurst, George: See—
 Skinner, Jack; and Whitehurst, George, 3,664,317.
 Whitehurst, Gerald E.: See—
 Clark, Richard B.; Morris, Hugh C.; and Whitehurst, Gerald E., 3,640,359.
 Whitehurst, Joe R., to Warner & Swasey Company, The. Apparatus for blending fibers. 3,657,773, 4-25-72, Cl. 19-243.
 Whitehurst, Joe R., to Warner & Swasey Company, The. Fluted roll slip drafting system. 3,694,861, 10-3-72, Cl. 19-259.000.
 Whiteley, Roger L.: See—
 Shah, Dipak Co.; Ward, George W.; and Whiteley, Roger L., 3,655,349.
 Whitemyer, James Glenn: See—
 Van Fossen, Marvin Dale; and Whitemyer, James Glenn, 3,662,110.
 Whitener, Philip C.; and Weigel, Robert M., to United States of America, Federal Aviation Administration, mesne. Methods and mechanisms for steering truck wheel axles by a rotatable truck beam. 3,643,898, 2-22-72, Cl. 244-50.
 Whitener, Philip C., to United States of America, Navy. Hydrofoil flap control system. 3,645,223, 2-29-72, Cl. 114-66.5.
 Whitesel, Joseph C.: See—
 Hogg, William J.; Jackson, Charles A.; Harvin, Septimus A.; and Whitesel, Joseph C., 3,695,983.
 Whitesell, George, to Hooker Chemical Corporation. Multiparameter process solution analyzer-controller. 3,674,672, 7-4-72, Cl. 204-195.00r.
 Whiteside, Jimmy Talmage: See—
 Miller, Jarrell Denver; and Whiteside, Jimmy Talmage, 3,698,446.
 Whiteson, Bennett V.: See—
 Anderson, Raymond H., Jr.; Rawe, Richard A.; and Whiteson, Bennett V., 3,667,107.
 Anderson, Raymond H., Jr.; and Whiteson, Bennett V., 3,699,798.
 Whitesons Sales Corporation: See—
 White, Jerome R.; and Lawner, Arnold M., 3,662,861.
 Whitestone Chemical Corporation: See—
 Haynes, George M., 3,663,583.
 Whitey Research Tool Co.: See—
 Matousek, Stephen, 3,675,895.
 Whiteyer, James Glenn, to Bell Telephone Laboratories, Incorporated. Multiple trunk signal arrangement. 3,676,604, 7-11-72, Cl. 179-18.0ab.
 Whitfield, Edwin W.: See—
 Case, John S.; and Whitfield, Edwin W., 3,685,012.
 Whitfield, George P.: See—
 McConnell, William M.; Bradley, William H.; Chappel, Howard E.; Whitfield, George P.; and Carey, Raymond L., 3,701,336.
 Whitfield, George Robert: See—
 Felgett, Peter Berners; and Whitfield, George Robert, 3,669,207.
 Whitfield, Harold Barnard, Jr., to Du Pont de Nemours, E. I., and Company. Film structure having undulating surface. 3,707,431, 12-26-62, Cl. 161-123.000.
 Whitfield, Homer G., to Condeco Automation, Inc. Parts washer. 3,696,824, 10-10-72, Cl. 134-6.200.
 Whitfield, Marshall G. Super-cooled disk brake. 3,651,895, 3-28-72, Cl. 188-71.6.
 Whitfield, Robert E.; Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Treatment of textile materials. 3,632,391, 1-4-72, Cl. 117-62.2.
 Whitfill, Donald L.: See—
 Rickard, Robert S.; and Whitfill, Donald L., 3,655,358.
 Tillman, Richard M.; and Whitfill, Donald L., 3,632,329.
 Whitfill, William A., Jr., to Schlumberger Technology Corporation. Spiral tubing cutter. 3,640,181, 2-8-72, Cl. 90-11.4.

- Whiting Corporation: See—
 Bergstrom, Ralph E., 3,666,413.
 Whiting, Jerry M., to Atlantic Richfield Company. Apparatus for counterstressing in situ rock for support of underground openings. 3,665,719, 5-30-72, Cl. 61-45.00f.
 Whiting, John R.: See—
 Willis, Grant N., 3,662,301.
 Whiting, John S.: See—
 Cupp, Frederick B.; and Whiting, John S., 3,641,506.
 Whiting, John S., to General Dynamics Corporation. Information handling system especially for magnetic recording and reproducing of digital data. 3,653,036, 3-28-72, Cl. 28-138.
 Whiting, Robin Joseph: See—
 Gwillim, David Thomas; and Whiting, Robin Joseph, 3,700,154.
 Whiting, Ronald, 1/4 to Anderson Ollia B. Safety closure for high pressure gas tanks. 3,648,893, 3-14-72, Cl. 222-3.
 Whitla, James, to Lockheed Aircraft Corporation. Aircraft compartment and magnetic connecting assembly. 3,647,165, 3-7-72, Cl. 244-118.
 Whitledge, Jon Keyes, to Moore, Samuel & Company. Hydraulically actuated apparatus. 3,706,123, 12-19-72, Cl. 29-237.000.
 Whitley, Andrew. Rack. 3,659,889, 5-2-72, Cl. 294-5.5.
 Whitley, Ernest M., to Red Lake Laboratories. Motion picture camera and the like. 3,637,298, 1-25-72, Cl. 352-72.
 Whitley, James Brooks; and Iannicelli, Joseph, to Huber, J. M., Corporation. Method for producing mineral products. 3,667,689, 6-6-72, Cl. 241-15.
 Whitley, James O., Jr.: See—
 Scales, Ralph E.; and Whitley, James O., Jr., 3,700,014.
 Whitley, William Paul, Jr. Immersible boat trailer with boat cradling and latching means. 3,632,138, 1-4-72, Cl. 280-405.
 Whitlock, Bruce N.: See—
 Gaven, Thomas J.; and Whitlock, Bruce N., 3,690,678.
 Whitlock, Bruce N., to McGraw-Edison Company. Teaching machine with servo-controlled track selector. 3,682,481, 8-8-72, Cl. 274-4.00j.
 Whitlock, Robert A., to Aquamatic Inc. Electric timing device. 3,679,951, 7-25-72, Cl. 318-102.000.
 Whitlow, George A. Ground fault interruptor circuit. 3,662,218, 5-9-72, Cl. 317-18.
 Whitman, Larry E. Automotive vehicle side view periscope. 3,682,536, 8-8-72, Cl. 350-307.000.
 Whitman, Nelson, to Econo-Mail, Inc. Envelope having chemically treated edges. 3,677,460, 7-18-72, Cl. 229-85.000.
 Whitman, Robert Henry: See—
 Bollyky, Laszlo; and Whitman, Robert Henry, 3,644,517.
 Whitman, Robert L., to Zenith Radio Corporation. Acoustic holography with a frequency shifted reference beam. 3,633,407, 1-11-72, Cl. 73-67.5.
 Whitmarsh, John Robert William: See—
 Johnson, Christopher Linley; and Whitmarsh, John Robert William, 3,648,460.
 Whitmer, Jeff David. Trap for drill pipe. 3,687,157, 8-29-72, Cl. 137-527.000.
 Whitmore Research Laboratories, Inc.: See—
 Stout, Daniel M., 3,653,145.
 Whitmore, Keith E.: See—
 Barr, Charles R.; Williams, John; and Whitmore, Keith E., 3,701,783.
 Whitmore, Robert A.: See—
 Jones, Howard W.; and Whitmore, Robert A., 3,694,234.
 Whitmore, Thomas C.; and Cunningham, Robert G., to Eastman Kodak Company. Method of and apparatus for applying an electrical charge to a moving sheet of flexible material. 3,671,806, 6-20-72, Cl. 317-2.00r.
 Whitmore, Thomas C., Jr.; and Cunningham, Robert G., to Eastman Kodak Company. Method of and apparatus for imparting an electrical charge to a web of film or paper or the like. 3,670,203, 6-13-72, Cl. 317-2.00r.
 Whitner, Robert A.: See—
 Burack, Russell; Swirsky, David M.; and Whitner, Robert A., 3,644,180.
 Whitney Blake Company, The: See—
 Brazee, John A., 3,643,008.
 Whitney, Charles D., to Colorado Business Development Corporation, mesne. Reloadable two-piece shotgun cartridge. 3,675,576, 7-11-72, Cl. 102-44.000.
 Whitney, Donald R., to General Motors Corporation. Split image rear viewing system. 3,645,607, 2-29-72, Cl. 350-301.
 Whitney, Douglas S.: See—
 Morgan, George W.; and Whitney, Douglas S., 3,679,045.
 Whitney, Douglas S.; and Morgan, George W. Refuse disintegrator. 3,682,396, 8-8-72, Cl. 241-41.000.
 Whitney, Erwin C.: See—
 McDougal, Harmon A.; and Whitney, Erwin C., 3,688,796.
 Whitney, Eugene C., to Westinghouse Electric Corporation. Synchronous motors with field starting resistor arrangement. 3,654,503, 4-4-72, Cl. 310-162.
 Whitney, Ian, to Rolls-Royce Limited. Method of manufacturing carbon fibres. 3,673,035, 6-27-72, Cl. 156-235.000.

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 Whitney, Joel G.: See—
 Lee, Kyu Tai; and Whitney, Joel G., 3,655,694.
 Lee, Kyu Tai; and Whitney, Joel G., 3,707,551.
 Whitney, John A.; and Woods, Richard E., to Eckrich, Peter, & Sons, Inc. Telemetering transmitter. 3,641,538, 2-8-72, Cl. 345-208.
 Whitney, John A.; and Woods, Richard E., to Eckrich, Peter, & Sons, Inc. Telemetering transmitter. 3,651,405, 3-21-72, Cl. 325-113.
 Whitney, John K. Inflatable body support. 3,701,173, 10-31-72, Cl. 5-349.000.
 Whitney, Ronald L.: See—
 Burton, John S.; Gilman, Samuel; Rothbart, Michael; and Whitney, Ronald L., 3,645,619.
 Whitney, Roper, Inc.: See—
 Hochstatter, Peter C., 3,656,390.
 Whitney, W. A., Corporation: See—
 Franzen, Walter B., 3,677,418.
 Whitney, William R., to Leesona Corporation. Doffing apparatus and method. 3,672,143, 6-27-72, Cl. 57-53.000.
 Whitsett, Jack W. Scraping device. 3,662,424, 5-16-72, Cl. 15-236.
 Whittaker Corporation: See—
 Aisenberg, Sol, 3,698,813.
 Bons, Ido A., 3,662,591.
 Chabot, Ronald W.; Leonard, George S.; and Sheena, David, 3,699,856.
 Findley, Harold J.; and Meier, James L., 3,640,941.
 Gende, Joseph J., 3,689,055.
 Kaufman, Harold, 3,661,609.
 Kaufmann, Albert R., 3,652,266.
 Lieberman, Irving, 3,672,035.
 Loewenstein, Paul; and Gorecki, Thomas A., 3,673,667.
 Senter, Louis; and Johnson, Robert E., 3,696,689.
 Walker, Gerard F., 3,699,636.
 Whittaker, William R., 3,672,694.
 Zinken, Harold; Gustafson, Kenneth A.; and Coker, Chuck M., 3,649,008.
 Zinkin, Harold, 3,653,659.
 Whittaker Corporation, mesne: See—
 Aisenberg, Sol; and Dodge, James B., 3,675,451.
 Whittaker, Jack D.: See—
 Loveday, Harry W.; and Whittaker, Jack D., 3,685,167.
 Whittaker, Robert H.: See—
 Nelkin, Arthur; and Whittaker, Robert H., 3,699,693.
 Whittaker, William R., to Whittaker Corporation. Means and techniques for releasably securing ski boots to skis. 3,672,694, 6-27-72, Cl. 280-11.35k.
 Whittam, Thomas V.: See—
 Sunderland, Stephen; and Whittam, Thomas V., 3,695,837.
 Whittemore, Charles A.; and Spangler, Robert E., to Minnesota Mining and Manufacturing Company. Shelf-stable epoxy resin composition of epoxy resin and adduct of trimellitic anhydride and polyalkylene glycol. 3,639,345, 2-1-72, Cl. 260-47.
 Whittemore, James R. Retractable vehicle cover. 3,649,073, 3-14-72, Cl. 296-137.
 Whittemore, Lawrence C. Flare dispenser. 3,635,189, 1-18-72, Cl. 116-114.
 Whittemore, Maurice James, Jr., to RCA Corporation. Recorder and playback apparatus for pulse width modulated record. 3,688,025, 8-29-72, Cl. 178-6.60r.
 Whittemore, Russell G., to PPG Industries, Inc. Electrically heated window. 3,659,079, 4-25-72, Cl. 219-522.
 Whitten, Darrell W.: See—
 Cooke, Harry F.; Weber, Roger L.; Hall, Donald B.; and Whitten, Darrell W., 3,659,205.
 Whitten, Derrill Gene; and Vanmeurs, Peter, to Shell Oil Company. Steam drive oil recovery process. 3,705,625, 12-12-72, Cl. 166-252.000.
 Whitten, Frank R.: See—
 Anderson, Ronald A.; and Whitten, Frank R., 3,653,436.
 Whitten, George R., Jr. Method of water purification. 3,695,434, 10-3-72, Cl. 210-74.000.
 Whitten, James Robert, to General Electric Company. Tuneable microelectronic active bandpass filter. 3,643,173, 2-15-72, Cl. 330-26.
 Whitten, James Robert, to General Electric Company. Modulation format for signal arrive time determination utilizing differential code logic. 3,680,114, 7-25-72, Cl. 343-100.0cl.
 Whittier, John D.: See—
 Choquette, Henry T.; Gobble, Lawrence T.; Studebaker, James B.; and Whittier, John D., 3,652,180.
 Whittier, Lawrence E. Alarm clock. 3,691,752, 9-19-72, Cl. 58-16.000.
 Whittingham, Barron S. Process of making an edible poultry composition. 3,666,490, 5-30-72, Cl. 99-108.000.

- Whittingham, Reginald P.: See—
 Bradley, Edmund G.; and Whittingham, Reginald P., 3,699,635.
 Whittington, Jimmie L.: See—
 Folsom, Henry J.; Boxley, Denis V.; Kingsbury, James; Kraitzer, Shlomo; Soulikas, George; and Whittington, Jimmie L., 3,706,153.
 Goodkind, Karen B.; Hamilton, Brett B.; Larson, Ake L.; and Whittington, Jimmie L., 3,667,136.
 Whittington, Keith Richard, to T. I. (Group Services) Limited. Scanning ultrasonic inspection method and apparatus. 3,693,415, 9-26-72, Cl. 73-67.900.
 Whittle, John: See—
 Moore, Howard D.; Padmore, Ernest L.; and Whittle, John, 3,663,437.
 Whitton, Alden William: See—
 Chittenden, Richard Marion; Whitton, Alden William; Macalalad, Fidel Villaluna; Massman, Richard; and Wilson, Earl David, 3,690,315.
 Whitton, Colin Alfred: See—
 Burden, Peter; and Whitton, Colin Alfred, 3,645,790.
 Whitton, Richard Wilfred; Southall, Ronald Herbert; McKenzie, Michael William; and Shackelford, Ralph Edward, to Australian Iron & Steel Pty. Limited. Process for the production of a steel exhibiting consistently low weight loss test values. 3,653,979, 4-4-72, Cl. 148-6.24.
 Whitty, Arthur R.: See—
 Robbins, Robert; Whitty, Arthur R.; and Kachavos, Louis J., 3,697,876.
 Whitworth, Anthony James; Tung, Stephen yi-Sun; and Hajto, Ernest Anthony. Soil grouting process. 3,686,872, 8-29-72, Cl. 61-36.00r.
 Whitworth, Anthony James; Lees, William Arthur; Tung, Stephen Yi-Sun; and Hajto, Ernest Anthony, to Borden Company, The. Soil grouting process and composition. 3,706,581, 12-19-72, Cl. 61-36.000.
 Whole Earth Corporation, The: See—
 Seitz, Joseph R. M., 3,664,134.
 Whyman, Barry Herbert Francis: See—
 Desty, Denis Henry; Whyman, Barry Herbert Francis; and Thomas, John Lionel, 3,635,293.
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 Venuto, Paul B.; and Whyte, Thaddeus E., Jr., 3,661,769.
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 Glaser, David W.; and Whyzmuzis, Paul D., 3,652,469.
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Siebeck, Hans; Wichmann, Gunter; and Kurotschka, Georg, 3,706,886.

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Schroder, Jürgen; Wichmann, Onno; and Zuchner, Werner, 3,648,024.

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Moser, Kurt; Hochli, Beat; Volker, Theodor; and Wicht, Paul, 3,651,026.

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Zeile, Karl; Schulz, Werner; Banholzer, Rolf; and Wick, Helmut, 3,681,500.

Wick, Manfred: See—

Triem, Hermann; Wick, Manfred; Nitzsche, Siegfried; and Wegehaupt, Karl-Heinrich, 3,652,711.

Wicke, Charles H.: See—

Gulick, Ronald A.; and Wicke, Charles H., 3,640,140.

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Merriman, Horace B.; Collier, William A. H.; and Richardson, Barry A., 3,683,667.

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Bosche, Walwin J., Jr., 3,701,833.

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Trochanowski, Andrew J.; and Wicks, Steven A., 3,671,964.

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Swanson, Elston H.; Fahnestock, James D.; and Wicks, William H., 3,689,849.

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Coopersmith, Myron; Rubin, Gerald; and Wickson, Edward J., 3,652,610.

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Nathanson, Harvey C.; and Wickstrom, Robert A., 3,672,985.

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Korwin, Irving, 3,670,524.

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Titchener, Oliver R.; Widiger, Aimar T.; and Yurcisin, Robert A., 3,681,092.

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Widmer, Alois Erhard, to RCA Corporation. Zn diffusion into gap. 3,653,989, 4-4-72, Cl. 148-189.

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Gey, William A.; and Wiebke, Armin T., 3,636,874.

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Fries, Ludwig; Mundil, Rudolf; and Wiechers, Herbert, 3,655,709.

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Berndt, Hans Detlef; and Wiechert, Rudolf, 3,700,670.

Eder, Ulrich; Berndt, Hans-Detlef; Kerb, Ulrich; Wiechert, Rudolf; Zollner, Georg; Buchschacher, Paul; Furlenmeier, Andre; Furst, Andor; and Muller, Marcel, 3,661,897.

Engelfried, Otto; Neumann, Friedmund; and Wiechert, Rudolf, 3,641,013.

Furst, Andor; Furlenmeier, Andre; Langemann, Albert; Waldvogel, Guy; Hocks, Peter; Kerb, Ulrich; and Wiechert, Rudolf, 3,651,100.

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Laurent, Henry; Steinbeck, Hermann; and Wiechert, Rudolf, 3,637,668.

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Prezewowsky, Klaus; and Wiechert, Rudolf, 3,682,983.

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Lind, Erwin; and Wiedemann, Wolfgang, 3,653,886.

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- Wieg, Heinrich J.: *See—*
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- Wiegand, Charles W. Pressure control valve. 3,698,424, 10-17-72, Cl. 137-467.000.
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Bauer, Victor John; Fanshawe, William Joseph; and Wiegand, Gretchen Ellen, 3,678,062.
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- Wiegand, John A., to Maremont Corporation. Shock absorber demonstration stand. 3,645,016, 2-29-72, Cl. 35-50.
- Wiegand, Walter J., Jr., to United Aircraft Corporation. Auxiliary ionization of DC electric discharge electrode boundary sheaths. 3,657,600, 4-18-72, Cl. 317-4.
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- Wiegand, Herbert F. Discharge device for removing compacted bed of particles. 3,685,746, 8-22-72, Cl. 241-3.000.
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- Wiegel, Wolfgang: *See—*
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Grummon, Glenn D.; and Wiegert, Philip E., 3,678,067.
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Logan, Ralph Andre; White, Harry Gregory; and Wiegmann, William, 3,646,406.
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Kienast, Gerhard; Peilstocker, Gunter; Volz, Hans G.; and Wiegrefe, Wolfgang, 3,663,494.
Schneeg, Robert; Pelousek, Herbert; Dippolhofer, Robert; Wiegrefe, Wolfgang; Voelz, Hans-Georg; and Kienast, Gerhard, 3,674,747.
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Saraceno, Anthony J.; Walters, Reed H.; Jones, Donald B.; and Wiehle, William E., 3,664,950.
- Wiehler, Wolf: *See—*
Gross, Franz; Kahl, Paul; and Wiehler, Wolf, 3,634,723.
- Wieland, Egon: *See—*
Naumann, Willy R.; Albrecht, Wilhelm; and Wieland, Egon, 3,680,405.
Uhlenhaut, Rudolf; Wieland, Egon; and Dittich, Uwe-Bernd, 3,707,095.
- Wieland, Howard N.; and Ehrlich, Don E., to TRW Inc., mesne. Tubular connector having spring biased coupling means. 3,653,693, 4-4-72, Cl. 285-317.
- Wieland, Howard N., to TRW Inc. Stud welding tool construction. 3,662,145, 5-9-72, Cl. 219-98.000.
- Wieland, Peter: *See—*
Anner, Georg; and Wieland, Peter, 3,636,055.
Anner, Georg; and Wieland, Peter, 3,646,064.
- Wieland, Peter, to Ciba-Geigy Corporation. Process for the manufacture of acetylene compounds. 3,696,130, 10-3-72, Cl. 260-397.500.
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- Wieland, Roman G., to Tri W-G, Inc. Motorized parallel bar device manufactured in various lengths. 3,697,066, 10-10-72, Cl. 272-63.000.
- Wieland, Theodor: *See—*
Determann, Helmut; and Wieland, Theodor, 3,652,540.
- Wieland, Theodor; Konz, Wilhelm; Faesel, Jürgen; and Lewalter, Jürgen, to Boehringer Ingelheim G.m.b.H. Cyclic decapeptides and methods of synthesizing the same. 3,705,887, 12-12-72, Cl. 260-112.500.
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Gotschel, Hans; and Settele, Helmut, 3,680,620.
- Wielebski, Wayne H., to Allen-Bradley Company. Relay input circuit. 3,666,998, 5-30-72, Cl. 317-123.000.
- Wieligmann, Friedrich, to Keller, C. Shrink-wrap film heating apparatus. 3,673,703, 7-4-72, Cl. 34-225.000.
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Rey, Hans-Georg; Wielinger, Hans; and Rieckmann, Peter, 3,668,076.
- Wielt, Warren P.: *See—*
Beddows, Norman A.; Quigley, John A.; and Wielt, Warren P., 3,675,058.
- Wielt, Warren Pierce, to General Electric Company. High slip induction motor having an end ring formed of bifurcated members. 3,662,195, 5-9-72, Cl. 310-64.
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Peterson, Robert L.; and Wieman, Paul R., 3,657,459.
Ryan, John W.; Tomkinson, John G.; and Wieman, Paul R., 3,675,925.
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- Wiemer, Howard C.: *See—*
Wayman, Robert W.; and Wiemer, Howard C., 3,635,023.
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Urbach, Jacques; and Wiene, Harold W., 3,662,040.
- Wiener, Charles: *See—*
Engel, Lawrence J.; Gianni, Michael H.; and Wiener, Charles, 3,692,837.
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Abraham, Anton, 3,645,278.
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Smolka, Thomas G.; and Zelinka, Johann, 3,666,280.
Smolka, Thomas G.; and Schweizer, Gottfried, 3,685,847.
- Wiener Metallwarenfabrik Smolka and Co.: *See—*
Smolka, Thomas G., 3,671,053.
- Wiener, Murray: *See—*
Barberton, Carl Lieb; and Wiener, Murray, 3,665,893.
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Kapun, Walter, 3,675,911.
- Wiener, Thomas J.; and Kuhns, Robert C., to Kelly Company, Inc. Non-counterbalanced front-of-dock dockboard. 3,685,077, 8-22-72, Cl. 14-71.000.
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Kaitna, Walter, 3,655,322.
- Wienert, Fritz O. Ferrous pellets. 3,653,876, 4-4-72, Cl. 75-28.
- Wienert, Fritz O. Rotary reactor and method for treating melts. 3,653,879, 4-4-72, Cl. 75-93.
- Wienert, Lloyd C., to Wilson & Co., Inc., mesne. Lactation period brooder. 3,664,302, 5-23-72, Cl. 119-18.
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Brown, Archer W.; Montgomery, James L.; Wienke, Charles W.; Roskowsinski, Alfons; and Braddock, William A., 3,658,189.
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Shults, Gary W.; and Wierbicki, Eugen, 3,642,500.
- Wiersma, Frans, to Hunkeler, Jos., Firma. Method of rounding the backs of books and a machine for performing the same. 3,638,966, 2-1-72, Cl. 281-21.
- Wierzbicki, Edward J.: *See—*
Salmon, David; Wierzbicki, Edward J.; Langston, Benny; and Beegle, Donald W., 3,703,340.
- Wierzbicki, John R.: *See—*
Amdahl, Gene M.; Arnold, Richard F.; Dauber, Philip S.; Freiman, Charles V.; Robelen, Russell J.; Schorr, Herbert; and Wierzbicki, John R., 3,670,309.

- Arnold, Richard F.; Dauber, Philip S.; Freiman, Charles V.; Robelen, Russell J.; and Wierzbicki, John R., 3,670,307.
Dauber, Philip S.; Robelen, Russell J.; and Wierzbicki, John R., 3,675,217.
- Wiesbeck, Franz: *See—*
Frankiewicz, Gerhard; and Wiesbeck, Franz, 3,631,979.
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Nickerson, John D.; and Wiesboeck, Robert A., 3,634,034.
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- Wiesboeck, Robert A., to United States Steel Corporation. Tetraacetoneitrilolithium hexafluorophosphate, tetraacetoneitrilolithium hexafluoroarsenate and method for the preparation thereof. 3,654,330, 4-4-72, Cl. 260-440.
- Wiesboeck, Robert A., to United States Steel Corporation. Manufacture of boron trifluoride. 3,690,821, 9-12-72, Cl. 423-293.000.
- Wieschel, John E.; Zanzig, Gerald G.; Czarniecki, Robert M.; and Murray, Claire W., to Heil Co., The. Refuse body loading mechanism. 3,682,336, 8-8-72, Cl. 214-83.300.
- Wiese, Delmar R., to Hoover Ball and Bearing Company. Bin with improved door seal and content release characteristics. 3,647,106, 3-7-72, Cl. 220-31.
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Berenson, Herman; Stonier, Robert Alden; and Wiese, Eugene Everett, 3,697,655.
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- Wiese, Herbert K.; and Burton, Paul E., to Esso Research and Engineering Company. Process for forming carbonyl compounds. 3,671,590, 6-20-72, Cl. 260-593.
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Hance, Richard J.; Wiese, John R.; and Claus, Harry G., Jr., 3,646,816.
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Tiers, George Van Dyke; and Wiese, Joseph A., Jr., 3,707,377.
- Wiese, Joseph A., Jr., to Minnesota Mining and Manufacturing Company. Heat-sensitive copy sheet. 3,632,379, 1-4-72, Cl. 117-36.8.
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Bopp, George Ellsworth; and Wiese, Larry Lee, 3,638,149.
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- Wiese, Lee R., to Henschel-Steinau, Inc., mesne. Knock-down display. 3,704,792, 12-5-72, Cl. 211-126.000.
- Wiese, Raymond H. Print containing different numbers of dots in light and dark tonal areas. 3,666,479, 5-30-72, Cl. 96-116.000.
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Schwartz, Leonard; Purcell, Harold K.; and Wieselmann, Jerome J., 3,674,688.
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- Wiesener, Robert W., to Programmed & Remote Systems Corporation. True motion miniature manipulator. 3,650,410, 3-21-72, Cl. 214-1.
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Mausner, Marvin L.; and Wiesenfeld, Arnold, 3,697,451.
- Wiesenhofer, Eugene E.: *See—*
Nellis, Guy I.; and Wiesenhofer, Eugene E., 3,638,910.
- Wiesenhofer, Frank H.: *See—*
Blatt, Leland Francis; and Wiesenhofer, Frank H., 3,672,465.
Blatt, Leland Francis; and Wiesenhofer, Frank H., 3,675,734.
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Blatt, Leland Francis; and Wiesenhofer, Frank Henry, 3,698,510.
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Hempel, Gerhard; Wieske, Reinhold; Krieger, Bernhard; and Kaspar, Emanuel, 3,700,660.
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Menz, Hans-Udo; Rost, Johannes Erich; and Wieske, Theophil, 3,658,555.
Menz, Hans-Udo; Trapp, Horst Otto Adolf; and Wieske, Theophil, 3,663,235.
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- Wiesler, Mordechai; Martinonis, Virgil; and Macintyre, John S., to Teledyne, Inc. Die sorting system. 3,695,414, 10-3-72, Cl. 198-108.000.
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- Wiesner, Ernst, to Zumtobel, Walter. Magnetic circuit for an inductor or transformer. 3,646,493, 2-29-72, Cl. 336-178.
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- Wiesner, Karel; and McCluskey, Jarvis G., to United States of America. 1,5-Methano-3-benzazocine derivatives. 3,687,937, 8-29-72, Cl. 260-239.30t.
- Wiesner, Max; Sonne, Herbert; and Schmidt, Hans-Robert, to Agfa-Gevaert Aktiengesellschaft. Photographic film cassette. 3,653,604, 4-4-72, Cl. 242-71.2.
- Wiesner, Paul: *See—*
Grob, Karl; Oertter, Josef; and Wiesner, Paul, 3,687,844.
- Wiesner, Wilfried; and Pader, Morton, to Lever Brothers Company. Dentifrice composition. 3,662,059, 5-9-72, Cl. 424-52.
- Wiessner, Edgar: *See—*
Rauter, Gunther; and Wiessner, Edgar, 3,657,684.
Rauter, Gunther; and Wiessner, Edgar, 3,683,321.
- Wiessner, Edgar, to Siemens Aktiengesellschaft. Frame clamp for electrically connecting electrical leads. 3,659,253, 4-25-72, Cl. 339-198.
- Wiessner, Edward E.: *See—*
Rosinski, Alexander B., Jr.; and Wiessner, Edward E., 3,648,486.
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- Wiest, Donald G., to Eastman Kodak Company. Method of making a laminated photographic identification card. 3,654,022, 4-4-72, Cl. 156-320.
- Wiest, Hubert: *See—*
Bergmeister, Eduard; Lieb, Erwin; Schmidtkonz, Christian; and Wiest, Hubert, 3,654,209.
Bergmeister, Eduard; Heckmaier, Joseph; Kirst, Paul-Gerhard; and Wiest, Hubert, 3,668,165.
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- Wietelmann, Ronald E.; and Wittenbrook, Lawrence S., to Scott, O. M., & Sons Company, The. Method and composition therefor. 3,637,366, 1-25-72, Cl. 71-92.
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- Wigal, Voorhis F. Multiple jumping device. 3,703,784, 11-28-72, Cl. 46-129.000.
- Wigdorovits, Ivan: *See—*
Eggmann, Fritz; Guanella, Gusta; Tiesnes, Manfred; and Wigdorovits, Ivan, 3,633,172.
- Wigfall, Robert T.: *See—*
Skinner, Frank R., II; and Wigfall, Robert T., 3,665,960.
- Wiggen, Lyle A., to Fantastic Futures Inc. Toy. 3,638,350, 2-1-72, Cl. 46-47.
- Wiggers, Nicholas W. Press guard and parts monitor. 3,698,527, 10-17-72, Cl. 192-129.00a.
- Wiggers, Verlin: *See—*
Gaeddert, Melvin V.; and Wiggers, Verlin, 3,669,123.
- Wiggershaus, Fred; and Donner, Klaus, to Demag Aktiengesellschaft. Blocking mechanism for an overhead crane trackway. 3,696,755, 10-10-72, Cl. 104-250.000.
- Wiggett, Edward J.: *See—*
Weinstock, Manuel; Nimyłowycz, Osyp; Wiggett, Edward J.; and Palmer, Obie, 3,653,616.
- Wiggill, John B., to Du Pont de Nemours, E. I., and Company. Silica/elastomer composites and method of producing same. 3,649,335, 3-14-72, Cl. 117-62.11.
- Wiggins, Charles S.: *See—*

- Bolen, Hugh R., Jr.; and Wiggins, Charles S., 3,655,297.
Wiggins, E. B., Inc.: *See*—
Calisher, Jay V.; and Burbick, Ross E., 3,662,793.
Calisher, Jay V.; and Burbick, Ross E., 3,674,061.
Nadsady, Clarence A., 3,669,472.
Wiggins, Emmett H. Copulation assisting device. 3,633,572, 1-11-72, Cl. 128-79.
Wiggins, Gary K., to Marine Construction & Design Co. Apparatus for removing viscera from a fish. 3,707,019, 12-26-72, Cl. 17-58,000.
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Wiggins, Glenn C.; Kreh, Marvin J.; Davis, Robert S.; and Stevenson, Fred, to Dow Chemical Company, The. Oriented saran coextrudate. 3,707,590, 12-26-72, Cl. 264-95,000.
Wiggins, Peter F.: *See*—
Duffey, Dick; Wiggins, Peter F.; and Senftle, Frank E., 3,638,020.
Wiggins, Richard F., to Gyromat Corporation, The. Paint spray valves for paint spray installations. 3,648,717, 3-14-72, Cl. 137-240.
Wiggins, Robert L.: *See*—
Genyk, Walter; Martin, Raymond E.; Swift, George B.; Wiggins, Robert L.; and Wolfe, Raymond W., 3,702,510.
Wiggins Teape (Ireland) Limited: *See*—
Dunne, Edward A., 3,634,994.
Wiggins Teape Research & Development Limited: *See*—
Woodward, Anthony Ian; and Purdie, Angus John Challis, 3,676,175.
Woodward, Anthony Ian; Purdie, Angus John Challis; and Way, Anthony Paul, 3,676,189.
Wiggins, Walter J. Recording system for job accounting information. 3,648,243, 3-7-72, Cl. 340-152.
Wiggins, William H. Cooking device. 3,692,012, 9-19-72, Cl. 126-25,00r.
Wigglesworth Limited: *See*—
Brown, Charles L. M., 3,646,137.
Wigham, Jack H. Conveyor belt spacer for potato planters. 3,690,511, 9-12-72, Cl. 221-174,400.
Wight, Christian F., to International Flavors & Fragrances Inc. Fragrance methods and compositions. 3,660,311, 5-2-72, Cl. 252-522.
Wight, George P.: *See*—
Reynolds, Robert W.; and Wight, George P., 3,698,823.
Wigley, Patrick A., to Clairtone Sound Corporation Limited. Television set chassis having vertical plug in circuit boards. 3,637,932, 1-25-72, Cl. 178-7,9.
Wigram, Richard: *See*—
Woof, William; Barlow, Colin; Gray, Arthur; and Wigram, Richard, 3,643,787.
Wigstol, Eivind, to Falconbridge Nickel Mines Limited. Purification of organic solvents containing metals by peroxide wash. 3,664,815, 5-23-72, Cl. 23-312.
Wiig, Chester M., to Littell, F. J., Machine Company. Feeding apparatus using rack and pinion mechanism having dwell periods. 3,638,846, 2-1-72, Cl. 226-142.
Wiig, Chester M., to Littell, F. J., Machine Company. Apparatus for continuously bending and flexing strip material. 3,643,487, 2-22-72, Cl. 72-164.
Wiig, Chester M., to Littell, F. J., Machine Company. Feeding apparatus for strip material. 3,647,127, 3-7-72, Cl. 226-155.
Wiig, Chester M., to Littell, F. J., Machine Company. Apparatus for positioning scroll shaped metal strips. 3,665,794, 5-30-72, Cl. 83-253.
Wiig, Chester M., to Littell, F. J., Machine Company. Automatic registering apparatus. 3,673,418, 6-27-72, Cl. 250-219,0dr.
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Wijard, Endel; and Odsvall, Jan, to Aktiebolaget Elektrodus. Autoclave device. 3,687,635, 8-29-72, Cl. 23-290,000.
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Wijsboom, Dan Bernardus, to U.S. Philips Corporation. DC-AC converter. 3,662,249, 5-9-72, Cl. 321-11.
Wikdahl, Nils Anders Lennart. Method of converting nuclear energy to mechanical energy and installation for carrying out the method. 3,656,300, 4-18-72, Cl. 60-59.
Wikel, David C., and Smith, Rymer H., to Wikel Manufacturing Co., Inc. Seal coating machine. 3,703,856, 11-28-72, Cl. 94-44,000.
Wikel Manufacturing Co., Inc.: *See*—
Wikel, David C.; and Smith, Rymer H., 3,703,856.
Wikelski, Karl W.: *See*—
Tyson, Henry K.; and Wikelski, Karl W., 3,670,630.
Wiker, Frank: *See*—
Rupprecht, Charles F.; and Wiker, Frank, 3,668,955.
Wikholm, Sture Sven-Olof; and Sjostrand, Carl Evert, to Stenberg-Flygt AB. Guiding device for pumps lowerable in shafts. 3,687,576, 8-29-72, Cl. 417-424,000.
Wikman, Andrew O.: *See*—
McCarthy, John H.; and Wikman, Andrew O., 3,642,921.
Wikner, Karl Gustav. Apparatus for packaging refuse and other materials. 3,696,737, 10-10-72, Cl. 100-233,000.
Wiktor, Dominik M., to Automatic Switch Company. Electrical switch having contacts provided with rollers. 3,648,003, 3-7-72, Cl. 200-166.
Wiktorski, Daniel F.: *See*—
Perlman, David E.; and Wiktorski, Daniel F., 3,631,785.
Wilbanks, James L. Surgical instrument. 3,651,800, 3-28-72, Cl. 128-12.
Wilber, William R.: *See*—
Vida, Julius A.; and Wilber, William R., 3,635,980.
Wilbert, Helmut: *See*—
Worner, Anton; and Wilbert, Helmut, 3,643,314.
Wilbur, Arnold Gesner, to Celanese Corporation. Vinyl acetate containing aqueous emulsions and process for producing same. 3,632,787, 1-4-72, Cl. 260-29,6.
Wilbur, Donald A.: *See*—
Peters, Philip H., Jr.; and Wilbur, Donald A., 3,699,575.
Wilburn, David K.: *See*—
Arutunian, Gregory; and Wilburn, David K., 3,688,574.
Wilburn, Garlington C.: *See*—
Hollister, Robert H.; Wilburn, Garlington C.; and Green, Kurt G., 3,676,623.
Wilburn, Garlington C.; and Michel, George P., to Westinghouse Electric Corporation. Method of constructing electrical windings. 3,633,273, 1-11-72, Cl. 29-602.
Wilburn, Ray H.: *See*—
Farque, C. Anthony, 3,679,957.
Wilburn, Warren E.: *See*—
Townsend, Leyshon W., Jr.; and Wilburn, Warren E., 3,660,067.
Wilby, John Leslie: *See*—
Hynam, Brian Michael; Wilby, John Leslie; and Young, John Ralph, 3,684,722.
Wilcox, Burdial Gardner: *See*—
Comstock, Alfred E.; and Wilcox, Burdial Gardner, 3,656,606.
Wilcox, Dana V.: *See*—
Rager, Donald D.; Hefflin, Robert L.; and Wilcox, Dana V., 3,634,649.
Wilcox, Doyle E.: *See*—
Slater, John M.; and Wilcox, Doyle E., 3,691,850.
Slater, John M.; and Wilcox, Doyle E., 3,706,217.
Wilcox Electric, Inc.: *See*—
Owen, James Neal; Moberly, Raymond Ronald; Martin, Edwin J., Jr.; Yamada, Akemichi; and Thomas, Edmund C., 3,675,162.
Wilcox, Harold R., to Riggs & Lombard, Inc. Continuous open width washer. 3,640,101, 2-8-72, Cl. 68-175.
Wilcox, Harold R., to Riggs & Lombard, Inc. Apparatus for applying liquids to a running web. 3,701,269, 10-31-72, Cl. 68-19,000.
Wilcox, Howard A.: *See*—
Di Napoli, Nicholas; Friedman, Donald; Nicholls, Robin P.; Wilcox, Howard A.; and Wood, Charles E., 3,665,397.
Wilcox, Joseph C.: *See*—
Foltz, Thomas R.; Hegarty, Gerald R.; Hopkins, Ervin W.; and Wilcox, Joseph C., 3,696,662.
Wilcox, Katherine L. Blouse construction. 3,638,239, 2-1-72, Cl. 2-105.
Wilcox, Lance C., to Electric Regulator Corporation. Semiconductor assembly. 3,661,013, 5-9-72, Cl. 73-141.
Wilcox Martin H.: *See*—
Egli, Paul H.; Brenner, Warren W.; and Wilcox Martin H., 3,651,798.
Wilcox, Merton F. Presence detector. 3,683,351, 8-8-72, Cl. 340-258,00c.
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Wilcox, Richard L.: *See*—
Tate, Roger W.; and Wilcox, Richard L., 3,680,793.
Wilcox, Robert D.: *See*—
Harris, Guy H.; Olson, Robert S.; and Wilcox, Robert D., 3,652,743.
Wilcox, Robert D., to Dow Chemical Company, The. Process for making cyclic alkylene phosphate, alkylene esters. 3,639,545, 2-1-72, Cl. 260-971.
Wilcox, Rudolph R. Crimping tool. 3,680,346, 8-1-72, Cl. 72-211,000.
Wilcox, Russell E., to Texas Instruments, Incorporated. Panel board system and components thereof with connector and integrated circuit device. 3,671,813, 6-20-72, Cl. 317-118,000.
Wilcox, Stanley W.: *See*—

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Wilcox, Thomas L., Jr.; and Jones, Ancil A., to Anderson Box Company, Inc. Collapsible reuseable carton. 3,642,192, 2-15-72, Cl. 229-39.
Wilczek, Frank J.: *See*—
Keogh, Raymond J.; and Wilczek, Frank J., 3,674,602.
Wilczewski, Robert H.: *See*—
Mack, Ronald H.; Wilczewski, Robert H.; and Kondur, Nicholas, Jr., 3,703,948.
Wilczynski, Thomas S.: *See*—
Zucker, Fredric E.; Kaswer, Joseph, Jr.; and Wilczynski, Thomas S., 3,704,890.
Wild, Albert F., to Tapecon, Inc. Planar drive adapter for cassette tape recorder. 3,678,212, 7-18-72, Cl. 179-100,20f.
Wild, Anthony Musgrave: *See*—
Bysouth, Peter Thomas; and Wild, Anthony Musgrave, 3,700,738.
Hayman, David Frank; and Wild, Anthony Musgrave, 3,641,123.
Stephenson, Oliver; Wild, Anthony Musgrave; and Hayman, David Frank, 3,706,782.
Wild Heerbrugg AG, Firma: *See*—
Bertele, Ludwig, 3,663,094.
Bertele, Ludwig, 3,698,796.
Bertele, Ludwig, 3,700,312.
Wild, Jost: *See*—
Kappeler, Heinrich; and Wild, Jost, 3,700,717.
Wild, Michael M.: *See*—
Thompson, Earl A., 3,704,746.
Van Deberg, Walter H.; and Thompson, Earl A., 3,688,830.
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Mottier, Francois; and Wild, Peter J., 3,678,399.
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Wild, Robert G., to Ladney, Michael, Jr. Fixtures for electrochemical processes. 3,655,549, 4-11-72, Cl. 204-297.
Wild Rover Corporation: *See*—
Adelson, Alexander M.; Swartz, Jerome; and Tomasulao Walter M., Jr., 3,688,066.
Wildebou, Charles W.: *See*—
Weglin, Walter; and Wildebou, Charles W., 3,678,577.
Wildeman, Arno Edgar, to Cosmopolitan Textile Company Limited. Apparatus and method for making a stitch bonded fabric. 3,646,780, 3-7-72, Cl. 66-85.
Wilden, Rolf Josef: *See*—
Lersmacher, Bernd; Lydtin, Hans Jurgen; and Wilden, Rolf Josef, 3,692,565.
Wildenau, Wolfgang: *See*—
Raban, Joachim; Erleben, Ewald; and Wildenau, Wolfgang, 3,677,806.
Wildenberg, Henry N.: *See*—
Janssen, Gail E.; and Wildenberg, Henry N., 3,699,732.
Wilder, Curtis J., to Lamb-Weston, Inc. Process for preparing frozen french fried potato segments. 3,649,305, 3-14-72, Cl. 99-207.
Wilder, Donald L.: *See*—
Green, Richard F.; Scray, Eugene J., Jr.; and Wilder, Donald L., 3,659,087.
Wilder, Donald L. Water craft construction. 3,702,106, 11-7-72, Cl. 115-70,000.
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Cier, Harry E.; and Wilder, Hulen L., 3,652,689.
De Pierri, William G., Jr.; and Wilder, Hulen L., 3,639,376.
Wilder, Joseph R.: *See*—
Reick, Franklin G., 3,638,644.
Reick, Franklin G.; and Wilder, Joseph R., 3,641,332.
Wilder, Lawrence B., to Amoco Production Company. Spline system. 3,666,304, 5-30-72, Cl. 287-52,050.
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Rothrock, Larry R.; and Wilder, Raymond E., 3,639,065.
Wilder, Robert H. Rubbish disposal installation. 3,687,177, 8-29-72, Cl. 141-392,000.
Wildfeuer, Alexander: *See*—
Berg, Alex; Eberhardt, Hans; Machleidt, Hans; Wildfeuer, Alexander; and Goeth, Hanns, 3,635,998.
Reuter, Wolfgang; Kutter, Eberhard; Sauter, Robert; Machleidt, Hans; and Wildfeuer, Alexander, 3,655,685.
Wildgruber, Otto, to Siemens Aktiengesellschaft. Check back system for visual and audible indication of detected processes. 3,644,926, 2-22-72, Cl. 340-412.
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Schuck, James M.; and Wildi, Bernard S., 3,679,653.
Wildi, Bernard S.; and Westman, Thomas L., to Monsanto Company. Detergent compositions containing soluble polymer-enzyme product. 3,634,258, 1-11-72, Cl. 252-89.
Wildi, Paul: *See*—
Jansen, Hansjorg; Wildi, Paul; and Kline, James A., 3,643,480.
Wildi, Theodore, to Lab-Volt (Quebec) Limited. Electrodynamometer. 3,657,923, 4-25-72, Cl. 73-134.
Wilding, Edwin L.: *See*—
Parker, Samuel A.; and Wilding, Edwin L., 3,677,390.
Wilding, Malcolm D., to Courtaulds Limited. Coating glass filaments. 3,681,120, 8-1-72, Cl. 117-119,200.
Wildmoser, Martin Michael: *See*—
Zelnick, Seymour; and Wildmoser, Martin Michael, 3,640,048.
Zelnick, Seymour; and Wildmoser, Martin Michael, 3,667,598.
Wildner, Walter, to Motoren- und Turbinen-Union Munchen GmbH. Thrust nozzle of turbojet engines. 3,638,862, 2-1-72, Cl. 239-265,39.
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Wile, Ronald H.: *See*—
Organ, Glenn E.; and Wile, Ronald H., 3,699,054.
Wilens, Seymour; and Trunk, Edmund G., to Stover Company, The. Heat dissipator for encased semiconductor device having heat tab extending therefrom. 3,694,703, 9-26-72, Cl. 317-234,00r.
Wilentchik, Jerzy J. Linear potentiometer with segmented terminal and collector means. 3,657,691, 4-18-72, Cl. 338-182.
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Wiley, Carl A., to North American Rockwell Corporation. Phase and frequency scanned antenna. 3,646,559, 2-29-72, Cl. 343-100.
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Wiley, Daniel E., to PPG Industries, Inc. Quenching vinyl chloride containing gas streams. 3,655,787, 4-11-72, Cl. 260-656.
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Wiley, Donald F.: *See*—
Phillips, Robert James; Reasor, Robert L.; and Wiley, Donald F., 3,688,971.
Wiley, Donald Field, to Cosden Oil & Chemical Company. Plating of polystyrene. 3,669,714, 6-13-72, Cl. 117-47.
Wiley, James Henry: *See*—
Sheth, Prabhakar Ranchhordas; and Wiley, James Henry, 3,671,633.
Wiley, Joseph J., Jr.: *See*—
Owens, Edwin G.; and Wiley, Joseph J., Jr., 3,643,611.
Wiley, Morris A.: *See*—
Waldbillig, James O.; Wiley, Morris A.; Rambo, Marvin L.; and Millendorf, Alfred J., 3,673,090.
Wiley, Morris A.; Lacoste, Roger G.; Henry, Clemence J.; and Waldbillig, James O., to Texaco Inc. Automatic transmission fluid. 3,640,872, 2-8-72, Cl. 252-75.
Wiley, Nathaniel C., Jr.; and Kazakavage, Joseph R., to Rudkin-Wiley Corporation. Non-tilt stacking and nesting container. 3,642,168, 2-15-72, Cl. 220-97.
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- Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Safety frame for automotive vehicles. 3,633,934, 1-11-72, Cl. 280-106.
- Wilfert, Karl; and Gotz, Hans, to Daimler-Benz Aktiengesellschaft. Installation for reducing the soiling of rear lights in motor vehicle bodies. 3,635,517, 1-18-72, Cl. 296-28.
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- Wilfert, Karl; and Andres, Rudolf, to Daimler-Benz Aktiengesellschaft. Safety steering for motor vehicles, especially for passenger motor vehicles. 3,683,717, 8-15-72, Cl. 74-552.000.
- Wilfert, Karl. Motor vehicle body. 3,695,679, 10-3-72, Cl. 296-91.000.
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Barochovsky, Antonin; Horacek, Ladislav; Krulik, Zdenek; Snitily, Miloslav; Stanci, Frantisek; and Wilfert, Milos, 3,659,410.
- Wilfert, Thomas. Safety control lever. 3,690,195, 9-12-72, Cl. 74-473.00r.
- Wilfing, Merle P.: *See—*
Gerich, Anton J.; Bletz, Howard W.; and Wilfing, Merle P., 3,707,199.
- Wilfley, A. R., and Sons, Inc.: *See—*
Choquette, Henry T.; Gobble, Lawrence T.; Studebaker, James B.; and Whittier, John D., 3,652,180.
- Zagar, Irvin Frank, 3,656,861.
- Zagar, Irvin Frank, 3,704,960.
- Wilfong, Andrew L. Gas analyzer. 3,683,700, 8-15-72, Cl. 73-421.50r.
- Wilfore, John F., to General Electric Company. Process for the preparation of liquid calibration fluids. 3,681,255, 8-1-72, Cl. 252-408.000.
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Judd, Frank Fuller; Lieberman, Jan Mark; and Wilhart, Helmut, 3,638,096.
- Judd, Frank Fuller; Lieberman, Jan Mark; and Wilhart, Helmut, 3,660,753.
- Judd, Frank Fuller; and Wilhart, Helmut, 3,675,158.
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- Wilhelm, Carl F., Jr. Cooling sleeve for gas turbine combustor transition member. 3,652,181, 3-28-72, Cl. 415-117.
- Wilhelm, Francis A. Trimmable pulse current-viewing shunt. 3,646,440, 2-29-72, Cl. 324-126.
- Wilhelm, Frederick C.: *See—*
Hayes, John C.; Mitsche, Roy T.; Rausch, Richard E.; and Wilhelm, Frederick C., 3,660,309.
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- Wilhelm, Frederick C., to Universal Oil Products Company. Dehydrogenation method and catalytic composite for use therein. 3,649,565, 3-14-72, Cl. 252-466.
- Wilhelm, Frederick C., to Universal Oil Products Company. Catalytic composite of platinum group metal nickel, group metal and Friedel-Crafts metal halide on oxide support. 3,705,111, 12-5-72, Cl. 252-439.000.
- Wilhelm, Gary, to Stoeger Arms Corporation. Toggle action firearm. 3,698,285, 10-17-72, Cl. 89-189.000.
- Wilhelm, Gary, to Stoeger Arms Corporation. Firearm. 3,706,152, 12-19-72, Cl. 42-70.00d.
- Wilhelm, Gary. Firearm. 3,706,261, 12-19-72, Cl. 89-154.000.
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Spaeth, Claus; and Wilhelm, Gunter, 3,688,448.
- Wilhelm, Hans: *See—*
Gulbins, Klaus; Wilhelm, Hans; Hartmann, Heinrich; and Eckell, Albrecht, 3,637,596.
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- Henkler, Herbert; Hartmann, Heinrich; Gulbins, Klaus; and Wilhelm, Hans, 3,654,021.
- Wilhelm, Hans; Hartmann, Heinrich; and Gulbins, Klaus, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of coatings from olefinic copolymers containing hydroxyl groups and polyisocyanates. 3,632,789, 1-4-72, Cl. 260-33.6.
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- Wilhelm Hegenscheidt Kommanditgesellschaft: *See—*
Dombrowski, Theodor, 3,667,329.
- Kunze, Bernhard, 3,705,514.
- Wilhelm, Henry G. Washer for sheets of photographic material. 3,657,990, 4-25-72, Cl. 95-98.
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Crowner, Joseph W.; Wilhelm, John I.; and Thompson, Ray E., 3,696,419.
- Wilhelm, Larry A., to FMC Corporation. Vehicle wheel spinner. 3,633,427, 1-11-72, Cl. 74-16.
- Wilhelm, Larry A., to FMC Corporation. Wheel balancing probe. 3,688,589, 9-5-72, Cl. 73-457.000.
- Wilhelm, Manfred; and Hillenbrand, Bernhard. Super conducting alloy. 3,684,495, 8-15-72, Cl. 75-172.000.
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Kebeler, Heinrich; Faigle, Johann Werner; and Wilhelm, Max, 3,634,428.
- Schmidt, Paul; Wilhelm, Max; and Eichenberger, Kurt, 3,632,653.
- Wilhelm, Max, to Ciba Corporation. 2-(2-Arylhiazirino)-2-imidazolinones. 3,632,602, 1-4-72, Cl. 260-309.6.
- Wilhelm, Max, to Ciba-Geigy AG. 11-Aminoaliphatic-5:10-methanodibenzo [a,d] [1:4] cycloheptadienes and the salts thereof. 3,687,936, 8-29-72, Cl. 260-239.00b.
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- Wilhelm, Wilhelm, to Siemens Aktiengesellschaft. Logical gate switching circuit in ECL-switching circuit technique. 3,655,998, 4-11-72, Cl. 307-215.
- Wilhelmi, Heiner, to Jurid Werke G.m.b.H. Vehicle brake lining wear warning device. 3,639,895, 2-1-72, Cl. 340-52.
- Wilhelmi, Werner Alfred, to Nederlandse Bewoid Maalschappij N.V. Nonwoven fabrics and binders therefor. 3,644,251, 2-22-72, Cl. 260-26.
- Wilhelmsburger Maschinenfabrik, Firma: *See—*
Pahlow, Lothar, 3,700,195.
- Wilhelmsen, Jens, to A/S Fredriksstad mek. Verksted. Ship hull for ice-breaking ship. 3,705,564, 12-12-72, Cl. 114-41.000.
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- Wilhoit, Jerry W., to Glastron Boat Company. Windshield. 3,654,648, 4-11-72, Cl. 9-1.
- Wiljanen, Bo Ingvar: *See—*
Sahlgren, Rolf Ake; and Wiljanen, Bo Ingvar, 3,646,826.
- Wilk, Edmund J., to General Electric Company. Method of making electromagnet cores. 3,638,302, 2-1-72, Cl. 29-606.
- Wilkaitis, Norman J., to Olin Corporation. Fuse cap. 3,648,615, 3-14-72, Cl. 102-37.8.
- Wilkalis, John E.: *See—*
Selman, Murray; Wamser, Christian A.; and Wilkalis, John E., 3,681,035.
- Wilke, Dennis P.: *See—*
Fuchs, Richard C.; Sukow, Daniel L.; and Wilke, Dennis P., 3,671,785.
- Wilke, Elroy E.: *See—*
Treveiler, Antoine Robert; and Wilke, Elroy E., 3,653,690.
- Wilke, George A., to Eastman Kodak Company. Package for dispensing and disposing of processing liquids in a developing apparatus. 3,687,050, 8-29-72, Cl. 95-89.00r.
- Wilke, Gerhard; Schnell, Gerhard; and Hoyer, Karl, to Bosch, Robert, G.m.b.H. Transportation system. 3,647,014, 3-7-72, Cl. 180-14.
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Boke, Reinhard; Schmid, Alfred; and Wilke, Heinz, 3,643,326.
- Kern, Georg; and Wilke, Heinz, 3,650,373.
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- Wilke, Richard. Electromotive adjusting device. 3,691,858, 9-19-72, Cl. 74-89.150.
- Wilke, Werner: *See—*
Donaldson, William K.; Wilke, Werner; and Fetzer, Hans, 3,634,568.

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Ankenbrand, Fritz; Herrmann, Kurt; and Wilke, Werner G., 3,681,138.
- Wilken, Gerd: *See—*
Hinrichs, Kurt; and Wilken, Gerd, 3,665,430.
- Wilkening, Harold A.: *See—*
Barr, Irwin R.; Hayman, Jack H., Jr.; and Wilkening, Harold A., 3,680,240.
- Wilkenloh, Frederic N.: *See—*
Roberts, Walter; Sherrill, Jimmie D.; Pusey, Brandon B.; and Wilkenloh, Frederic N., 3,643,007.
- Wilkins, Hans J.: *See—*
Rozdilsky, Nicholas; and Wilkins, Hans J., 3,699,719.
- Wilkins, Heinrich: *See—*
Bormann, Gerhard; Gmunder, John; and Wilkins, Heinrich, 3,671,541.
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- Wilkins, Howard John. Magnesium tennis racket with weighted throat piece. 3,642,283, 2-15-72, Cl. 273-73.
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Lindstrom, Barry E.; and Robb, Donald A., 3,667,493.
- Vander Horst, John, 3,631,878.
- Wilkinson, Edward D. Support for a portable wheel aligner. 3,648,375, 3-14-72, Cl. 33-46.
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- Wilkinson, Herman W. Fuel burner crossover arrangement. 3,694,133, 9-26-72, Cl. 431-191.000.
- Wilkinson, Philip E. Apparatus for maintaining uniform yarn tension during unwinding of a yarn package. 3,690,584, 9-12-72, Cl. 242-128.000.
- Wilkes, Arthur L.: *See—*
Stuck, Carl G.; and Wilkes, Arthur L., 3,701,856.
- Wilkes, Donald F.: *See—*
Erbert, Virgil; and Wilkes, Donald F., 3,651,732.
- Gladow, Dean E.; and Wilkes, Donald F., 3,691,871.
- Wilkes, Donald F., to Rolamite Technology Incorporated. Electrical snap action switch apparatus. 3,636,284, 1-18-72, Cl. 200-67.
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Hoch, Monroe P.; and Barrera, Joseph, 3,667,071.
- Wilkes, Raymond Steele, to Deere & Company. Manure spreader floor conveyor means. 3,643,786, 2-22-72, Cl. 198-173.
- Wilkie, Thomas A.: *See—*
Sugarm, Meyer L.; and Wilkie, Thomas A., 3,703,370.
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Mercer, Clive Kenneth; and Wilkin, George Desmond, 3,639,214.
- Wilkin, John P., to Armstrong Blum Manufacturing Company. Side ejector for band saw conveyor or the like. 3,655,025, 4-11-72, Cl. 198-24.
- Wilkin, Joseph D.: *See—*
White, Richard N.; and Wilkin, Joseph D., 3,668,826.
- Wilkin, William G.: *See—*
Shapiro, Scott N.; and Wilkin, William G., 3,638,997.
- Wilkins, Edmond J., to Reversafold Inc. Drape slide carrier. 3,667,531, 6-6-72, Cl. 160-345.
- Wilkins, Glenn E.: *See—*
Grafton, Jim R.; Wilkins, Glenn E.; and Murphy, Joseph F., 3,646,928.
- Grafton, Jim R.; Wilkins, Glenn E.; and Murphy, Joseph F., 3,692,013.
- Wilkins, Howard, to General Foods Corporation. Slidable locking closure. 3,693,864, 9-26-72, Cl. 229-17.00g.
- Wilkins, John F., to Alco Machine & Tool, Inc. Die cutter assembly and mounting means for punch thereof. 3,657,954, 4-25-72, Cl. 83-345.
- Wilkins, John William: *See—*
McLean, Peter; and Wilkins, John William, 3,647,319.
- Wilkins, Larry C. Side brush assembly for car wash apparatus. 3,688,328, 9-5-72, Cl. 15-21.00d.
- Wilkins Regulator Co.: *See—*
Camp, Alfred L., 3,692,047.
- Wilkinson, Adam R.: *See—*
White, Gordon F.; and Wilkinson, Adam R., 3,654,119.
- Wilkinson, Alan; Hine, Stewart Charles; and Boshier, David Robert, to Electric Musical Industries Limited. Apparatus for detecting positional errors utilizing high frequency modulation of light source and phase sensitive detector. 3,644,739, 2-22-72, Cl. 25-209.
- Wilkinson, Bruce L.: *See—*
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- Wilkinson, Bruce L., to United States of America, Army, mesne. High temperature warning system. 3,634,840, 1-11-72, Cl. 340-228.
- Wilkinson, Bruce L., to Pioneer Magnetics, Inc. Low frequency magnetic core inductor structure. 3,668,589, 6-6-72, Cl. 336-212.000.
- Wilkinson, Bruce L., to Pioneer Magnetics, Inc. Power supply voltage output detector. 3,679,965, 7-25-72, Cl. 323-19.000.
- Wilkinson, Bruce L., to Pioneer Magnetics, Inc. Current sharing parallel transistor circuit current sharing parallel. 3,699,358, 10-17-72, Cl. 307-242.000.
- Wilkinson, Carolyn J.: *See—*
Kamen, Jack M.; and Wilkinson, Carolyn J., 3,640,282.
- Wilkinson, Jesse J., to Gilbert & Barker Manufacturing Company. Barge pump. 3,635,591, 1-18-72, Cl. 417-410.
- Wilkinson, John C., to Heinemann Electric Company. Circuit breaker with an improved actuating mechanism. 3,680,014, 7-25-72, Cl. 335-26.000.
- Wilkinson, Keith, to King, Geo., W., Limited. Stop for power and free conveyors. 3,648,619, 3-14-72, Cl. 104-250.
- Wilkinson, Leonard A., to American Optical Corporation. Ophthalmic refracting chart projector. 3,655,276, 4-11-72, Cl. 351-30.
- Wilkinson, Lionel W. G., to USM Corporation. Method and apparatus for seam forming. 3,643,271, 2-22-72, Cl. 12-146.
- Wilkinson, Michael Burton, to Pye Limited. Dual range double beam null-type spectrophotometer. 3,658,422, 4-25-72, Cl. 356-89.
- Wilkinson, Norman, to Lucas, Joseph, (Industries) Limited. Electrical switches with pivotal actuator detent means. 3,659,067, 4-25-72, Cl. 200-166.
- Wilkinson, Olie E. Fishhook extractor. 3,680,248, 8-1-72, Cl. 43-53.500.
- Wilkinson, Peter R. S. Apparatus for photographic processing. 3,703,860, 11-28-72, Cl. 95-93.000.
- Wilkinson, Raleigh J., to Quaker Oats Company, The. Apparatus for deep fat frying of foodstuffs. 3,641,923, 2-15-72, Cl. 99-404.
- Wilkinson, Roger Martin, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Pulse code modulation system. 3,657,653, 4-18-72, Cl. 325-38.
- Wilkinson, Samuel Clifford Walter, to Crane Packing Limited. seals. 3,637,222, 1-25-72, Cl. 277-34.
- Wilkinson Sword Limited: *See—*
Fitzpatrick, James, 3,646,674.
- Wilkinson, Thomas B., III: *See—*
Reisman, Abraham J.; and Wilkinson, Thomas B., III, 3,687,767.
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- Wilkinson, William H., to Perkins Services N.V. Power plant. 3,665,787, 5-30-72, Cl. 74-674.000.
- Wilkinson, William H., to Perkins Services N.V. Compound power plant. 3,673,797, 7-4-72, Cl. 60-13.000.
- Wilkinson, Albert Challen. Method and apparatus for drying materials. 3,672,068, 6-27-72, Cl. 34-15.
- Wilks Scientific Corporation: *See—*
Gilby, Anthony C., 3,669,545.
- Wilks, Sherlock Edward: *See—*
Blackwell, John; and Wilks, Sherlock Edward, 3,707,348.
- Wilkus, Edward V.: *See—*
Wright, Archibald N.; Mimeault, Victor J.; and Wilkus, Edward V., 3,673,054.
- Wilkus, Edward V.; and Berger, Abe, to General Electric Company. α - α' -Trimethylsilylbutyl, trimethylbutylthiophene. 3,637,750, 1-25-72, Cl. 260-332.3.
- Will, Fritz G.: *See—*
Mitofe, Stephan P.; and Will, Fritz G., 3,703,415.
- Will, Gerhard: *See—*
Espenschied, Helmut; Rothfuss, Georg; and Will, Gerhard, 3,659,481.
- Will, Michael J. Stirring device. 3,697,053, 10-10-72, Cl. 259-108.000.
- Will, Peter M.: *See—*
Pennington, Keith S.; Shelton, Glenmore L., Jr.; and Will, Peter M., 3,667,831.

- Willard, Dennis, to Willard Laboratories, Inc. Flying magnetic head testing apparatus. 3,678,219, 7-18-72, Cl. 179-100.2ca.
- Willard, Henry G., to General Electric Company. Shock protection device circuit. 3,657,604, 4-18-72, Cl. 317-18.
- Willard, Henry G., to General Electric Company. Flux transfer trip device for electric circuit breakers. 3,693,122, 9-19-72, Cl. 335-174.000.
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- Willard, Dennis, 3,678,219.
- Willard, Miles J. Preparing a potato snack product. 3,634,095, 1-11-72, Cl. 99-100.
- Willard, Richard H.: *See—*
- Rovin, Herman; Cobb, James W.; Opuszenski, Theodore; Willard, Richard H.; Rigat, Raymond, Jr.; and Pellicano, Joseph, 3,670,675.
- Willard, Robert C.; Dauer, Harold L.; and Noles, Ronald Clifford, to United States of America, Navy. Flare deployment system. 3,661,087, 5-9-72, Cl. 102-70.00r.
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- Miller, Leo A.; Taylor, James A.; and Willard, Thomas M., 3,649,182.
- Willauer, Charles H., Jr. Watering system for fowl. 3,661,122, 5-9-72, Cl. 119-72.
- Willbond, William F.: *See—*
- Robbins, John E.; Willbond, William F.; Tutt, Kingsley J.; Hall, Dennis S.; and Hanson, Raymond, 3,663,139.
- Willco-Horgerate Medizinische Apparatebau GmbH: *See—*
- Hassler, Otto; and Wittkowski, Johannes, 3,662,124.
- Willcott, Walter F. Adjustable torso support attachment for wheel chairs and the like. 3,704,910, 12-5-72, Cl. 297-411.000.
- Willcox & Gibbs, Inc.: *See—*
- Marini, Aldo M., 3,689,728.
- Willcox, Dale F.: *See—*
- Stratheim, Donald M.; Thornbery, James M.; and Willcox, Dale F., 3,650,157.
- Willcox, Dale F., to Controls Company of America. Dryer control. 3,660,909, 5-9-72, Cl. 34-45.
- Willcox, Jesse A.: *See—*
- Desnick, Mandel L.; Willcox, Jesse A.; and Christensen, Jay A., 3,642,411.
- Willcox, Oswin Burr, to Du Pont de Nemours, E. I., and Company. Coating glass particles with an oxygen-containing compound to prevent sticking during heating. 3,656,921, 4-18-72, Cl. 65-21.
- Wille, Edward N.; and Volkers, Walter K.; deceased (by Volkers, Daphne; executrix), to Wolkers Research Inc. Receiver with input phase control between antenna and chassis. 3,680,128, 7-25-72, Cl. 343-702.000.
- Wille, Knut: *See—*
- Holtermann, Hugo; Haugen, Leif Gunnar; and Wille, Knut, 3,637,824.
- Willeke, William Henry. Discharge means for particulate matter dispenser. 3,693,844, 9-26-72, Cl. 222-213.000.
- Willem, Michel, to Ceraver. Pin-type insulator. 3,703,606, 11-21-72, Cl. 174-169.000.
- Willems, Donald J.; and Markey, Everett F., to Armour and Company. Animal shackling device. 3,693,216, 9-26-72, Cl. 17-24.000.
- Willems, Hans: *See—*
- Stadler, Paul; Hauth, Hartmut; Wersin, Gernot; Guttman, Stephan; Hofmann, Albert; Stutz, Peter; and Willems, Hans, 3,652,569.
- Willems, Joannes Josephus Maria: *See—*
- Hermans, Hubert Karel Frans; Knaeps, Alfonsus Gillielmus; and Willems, Joannes Josephus Maria, 3,679,686.
- Willems, Jozef Frans: *See—*
- Noe, Robert Joseph; Willems, Jozef Frans; Poot, Albert Lucien; and Verhille, Karel Eugene, 3,634,080.
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- Philippaerts, Herman Adelbert; Pollet, Robert Joseph; Willems, Jozef Frans; and Claes, Frans Henri, 3,661,592.
- Pollet, Robert Joseph; and Willems, Jozef Frans, 3,681,078.
- Pollet, Robert Joseph; Philippaerts, Herman Adelbert; Willems, Jozef Frans; and Claes, Frans Henri, 3,704,130.
- Thiers, Robrecht Julius; and Willems, Jozef Frans, 3,656,954.
- Van Den Heuvel, Walter August; Willems, Jozef Frans; Philippaerts, Herman Adelbert; Beels, Roland Francois; and Heylen, Renaat Frans, 3,661,584.
- Vanheertum, Johannes Joseph; Poot, Albert Lucien; Willems, Jozef Frans; and Janssens, Wilhelmus, 3,660,084.
- Verelst, Johan Lodewijk; Willems, Jozef Frans; and Florens, Raymond Leopold, 3,639,126.
- Verelst, Johan Lodewijk; and Willems, Jozef Frans, 3,652,274.
- Ville, Frans Jan; Willems, Jozef Frans; and Pattijn, Hendrik Adolf, 3,663,229.
- Willems, Jozef Frans; and Riester, Oskar, to Gevaert-Agfa N.V. Stabilizing silver image in presence of heterocyclic thioxo compound containing sulphogroup. 3,645,738, 2-29-72, Cl. 96-61.
- Willems, Jozef Frans; and Vandenberghe, Antoon Leon, to Gevaert-Agfa N.V. Photographic development. 3,650,749, 3-21-72, Cl. 96-66.
- Willems, Jozef Frans, to Gevaert-Agfa N.V. Photography. 3,658,535, 4-25-72, Cl. 96-59.
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- Willems, Jozef Frans; Heugebaert, Frans Clement; and Brinckman, Eric Maria, to Agfa-Gevaert. Chemical development of light-sensitive lead compositions. 3,676,131, 7-11-72, Cl. 96-48.000.
- Willems, Jozef Frans, to Gevaert-Agfa N.V. Method for developing photographic materials. 3,682,634, 8-8-72, Cl. 96-29.00r.
- Willems, Jozef Frans; Thiers, Robrecht Julius; and Priet, Roger Alois, to Gevaert-Agfa N.V. Silver diffusion transfer process having hydroxylamine, cyclic imide and a pyrazoloinone. 3,687,662, 8-29-72, Cl. 96-29.000.
- Willems, Jozef Frans; Berendsen, Jules Robert; Pollet, Robert Joseph; and Vandenberghe, Antoon Leon, to Gevaert-Agfa N.V. Silver halide emulsion containing sulfur or selenium sensitizer and hydroxy tetra-azaindene stabilizer. 3,689,273, 9-5-72, Cl. 96-109.00.
- Willems, Leonardus Franciskus, to U.S. Philips Corporation. Periodicity analyser for a quasi-periodic signal including a detection circuit. 3,676,596, 7-11-72, Cl. 179-1.0sa.
- Willems, Marcel Guillaume August: *See—*
- Fondu, Michel Paulin Valere; and Willems, Marcel Guillaume August, 3,634,100.
- Willems, Victor H.: *See—*
- Shields, William B.; Willems, Victor H.; and Sailer, William F., 3,668,472.
- Willemsen, Petrus Johannes Marie, to U.S. Philips Corporation. Low-pressure discharge lamp having an envelope encompassing the discharge space and consisting inter alia of a support. 3,649,864, 3-14-72, Cl. 313-221.
- Willemsens, Louis C. Organolead nitrogen compounds. 3,655,683, 4-11-72, Cl. 260-299.
- Willemsens, Louis C., to International Lead Zinc Research Organization, Inc. Preparation of hexaaryldilead compounds. 3,658,862, 4-25-72, Cl. 260-437.
- Willersinn, Herbert: *See—*
- Heil, Eduard; Trieschmann, Hans-Georg; Willersinn, Herbert; Bolte, Herbert; and Brontert, Klaus, 3,676,378.
- Naarmann, Herbert; and Willersinn, Herbert, 3,681,285.
- Willert, Richard Joseph: *See—*
- Kostel, Paul Steven; Borgen, William Earl; and Willert, Richard Joseph, 3,685,258.
- Willerton, John K.: *See—*
- Gioia, Gaspare L.; Switzer, Norris H.; and Willerton, John K., 3,672,608.
- Willett, David A.: *See—*
- Paxhia, Emmanuel A.; and Willett, David A., 3,703,639.
- Willett, Earl G., to Tenneco Inc. Sound attenuating chamber. 3,655,011, 4-11-72, Cl. 181-48.
- Willett, Fred T.: *See—*
- Fischbein, Irwin W.; Flaherty, Francis E.; McLaughlin, Edward P.; and Willett, Fred T., 3,652,342.
- Willett, George L., to Westvaco Corporation. Automatic bag closing machine. 3,706,177, 12-19-72, Cl. 53-76.000.
- Willett, Harold A., to Cane Machinery & Engineering Company, Inc. Cane grab for windrow loader. 3,651,966, 3-28-72, Cl. 214-147.
- Willett, Harold A., to Cane Machinery & Engineering Company, Inc. Sugar cane topper for V-cutter harvester. 3,705,481, 12-12-72, Cl. 56-13.900.
- Willett, John A. Method for making molded printing plates. 3,662,050, 5-9-72, Cl. 264-102.
- Willett, Norman F.; Stout, Perry R.; and Brownell, James R. Integrating water meter. 3,693,443, 9-26-72, Cl. 73-229.000.
- Willett, Richard L.: *See—*
- Hoppis, Larry; and Willett, Richard L., 3,686,594.
- Willett, Robert P. Drilling fluid composition and additive therefor. 3,668,129, 6-6-72, Cl. 252-8.50p.
- Willette, Raymond W. Tire shredder. 3,693,894, 9-26-72, Cl. 241-279.000.
- Willets, Elwood H. Vehicle suspension system. 3,687,478, 8-29-72, Cl. 280-104.50r.
- Willey, Charles; Willey, Walter R.; and Willey, Charles R. Disposable tissue. 3,645,769, 2-29-72, Cl. 117-16.
- Willey, Charles R.: *See—*
- Willey, Charles; Willey, Walter R.; and Willey, Charles R., 3,645,769.
- Willey, Ronald R., to United States of America, Navy. Wide angle anamorphic refractive lenses. 3,658,410, 4-25-72, Cl. 350-181.000.
- Willey, Walter R.: *See—*
- Willey, Charles; Willey, Walter R.; and Willey, Charles R., 3,645,769.
- Willhalm, Bruno: *See—*

- Gautschi, Fritz; Willhalm, Bruno; and Buchi, George H., 3,652,593.
- Willhaus, Werner; and Scharf, Friedrich, to Bosch, Robert, G.m.b.H. Container with pressure retaining sealing elements. 3,655,084, 4-11-72, Cl. 215-37.
- Willhite, Glen Paul; and Martin, William L., to Continental Oil Company. Process for constructing prestressed conduit for heated fluids. 3,654,691, 4-11-72, Cl. 29-446.
- William, Alan George, to Black and Decker Manufacturing Company, The. Circular saw guard and linkage. 3,706,332, 12-19-72, Cl. 143-159.00h.
- William Cotton Limited: *See—*
- Blood, Raymond; and Strong, Barry Colin, 3,641,789.
- Strong, Barry Colin, 3,643,473.
- William, Edward S.: *See—*
- Griffith, John Q., III; William, Edward S.; and Reiland, William H., Jr., 3,694,363.
- William, Glenn: *See—*
- Britton, Arthur Wray; Luckey, George Wilson; William, Glenn; and Snyder, John Douglas, 3,682,767.
- William Prym-Werke KG: *See—*
- Nysten, Bernhard P., 3,651,935.
- Williamitis, Victor A., to General Motors Corporation. Refrigerating system with osmotic membrane. 3,645,111, 2-29-72, Cl. 62-498.
- Williamitis, Victor A., to General Motors Corporation. Method for making the enclosure walls of a low temperature self-cleaning cooking device. 3,700,484, 10-24-72, Cl. 117-70.00a.
- Williams, Alan: *See—*
- Smith, Dexter William; and Williams, Alan, 3,686,916.
- Williams, Albert Etheridge, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,671,393, 6-20-72, Cl. 176-73.000.
- Williams, Albert J., Jr.: *See—*
- McMullan, Samuel J.; and Williams, Albert J., Jr., 3,686,568.
- Williams, Albert L.: *See—*
- Bridger, Robert F.; Kinney, Robert E.; and Williams, Albert L., 3,651,151.
- Williams, Alfred J., to General Motors Corporation. Rifle barrel electroplating fixture. 3,645,881, 2-29-72, Cl. 204-286.
- Williams, Alun Trefor Rhys; and Alcock, David Gerald, to Ilford Limited. Color photographic process using a bleach-fix solution containing a selenosulfate. 3,702,247, 11-7-72, Cl. 96-55.000.
- Williams, Andrew W.: *See—*
- Ames, Richard H.; and Williams, Andrew W., 3,682,177.
- Williams, Archibald H.; Germanas, Dalia; and Donaldson, George R., to Universal Oil Products Company. Alkylaromatic isomerization process. 3,637,881, 1-25-72, Cl. 260-668.
- Williams, Arthur M., Jr.: *See—*
- Winter, Henry A., Jr.; Williams, Arthur M., Jr.; and Foss, Richard L., 3,670,831.
- Williams, Bill D. Wrist watch assembly. 3,677,449, 7-18-72, Cl. 224-4.00e.
- Williams, Brown F.: *See—*
- Simon, Ralph E.; and Williams, Brown F., 3,699,404.
- Tietjen, James Joseph; Williams, Brown F.; and Wang, Chih Chun, 3,699,401.
- Williams, Bruce P.: *See—*
- Freedman, Frank B.; Friedman, Julius J.; and Williams, Bruce P., 3,682,172.
- Williams, Carl J., Jr.; and Knechel, William F., to Eastman Kodak Company. Photographic element and process. 3,642,482, 2-15-72, Cl. 96-53.
- Williams, Channing S.: *See—*
- Gilbert, Everett A.; and Williams, Channing S., 3,659,178.
- Williams, Charles A.: *See—*
- Jayne, Max L.; and Williams, Charles A., 3,701,081.
- Williams, Charles H., to Koppers Company, Inc. Disc type flexible shaft coupling. 3,654,775, 4-11-72, Cl. 64-13.
- Williams, Charles H., to Koppers Company, Inc. Flexible coupling. 3,698,208, 10-17-72, Cl. 64-11.00r.
- Williams, Charles H., to Koppers Company, Inc. Metering valve. 3,698,436, 10-17-72, Cl. 137-624.150.
- Williams, Charles J., to Erie Development Company. On-stream ore liberation detection system. 3,658,260, 4-25-72, Cl. 241-19.
- Williams, Charles P.; and Williams, William K. Extender assembly for extension planks. 3,703,220, 11-21-72, Cl. 182-223.000.
- Williams, Charles Sumner: *See—*
- Reid, Lee R.; and Williams, Charles Sumner, 3,668,406.
- Williams, Francis Sumner, to Texas Instruments, Incorporated. Tri-level interferometer. 3,659,919, 5-2-72, Cl. 350-166.
- Williams, Chester I. Wall form system. 3,638,901, 2-1-72, Cl. 249-20.
- Williams, Chester I. Rock bolt rod configuration. 3,653,217, 4-4-72, Cl. 61-45.
- Williams, Chester I. Circulation-stimulating machine. 3,662,747, 5-16-72, Cl. 128-24.
- Williams, Chester I. Tie rod configuration for sealing the threaded inner end of a shebolt. 3,667,720, 6-6-72, Cl. 249-213.
- Williams, Chester I. Rock bolts. 3,695,045, 10-3-72, Cl. 61-45.00b.
- Williams, Christian B.: *See—*
- Beukers, John M.; and Williams, Christian B., 3,671,968.
- Williams, Clarence: *See—*
- Nicholson, James F.; and Williams, Clarence, 3,657,643.
- Williams, Clifford Harrison, Jr. Car top boat carrier. 3,642,157, 2-15-72, Cl. 214-450.
- Williams, Clive: *See—*
- Arulpragasam, Jeganandaraj A.; Binks, Dennis C.; Holmes, John J.; Minshall, John F.; Pinnell, Martin C.; and Williams, Clive, 3,680,052.
- Williams, Cole C. Drawer with guide system. 3,650,592, 3-21-72, Cl. 312-330.
- Williams, Darrell E.: *See—*
- Post, Richard F., 3,683,216.
- Williams, David, to Ampex Corporation. Magnetic tape bin. 3,633,807, 1-11-72, Cl. 226-97.
- Williams, David A.; Yen, Chen-Hsiung; and Harris, Calvin E., to Eastman Kodak Company. Apparatus for splicing together the overlapping ends of photographic films. 3,687,786, 8-29-72, Cl. 156-502.000.
- Williams, David A., to Eastman Kodak Company. Ultrasonic transducer with half-wave separator between piezoelectric crystal means. 3,689,783, 9-5-72, Cl. 310-8.300.
- Williams, David C., to Ashland Oil, Inc. Solid-gas separating means. 3,646,595, 2-29-72, Cl. 55-284.
- Williams, David C., to Ashland Oil, Inc. Pelletizer process with control system. 3,657,400, 4-18-72, Cl. 264-40.
- Williams, David Christopher Robert, to Thorn Electrical Components Limited. Controlled degradation of a visual scene. 3,675,344, 7-11-72, Cl. 35-12.00n.
- Williams, David M., to Fiber Industries, Inc. Programmed spindle speed. 3,638,414, 2-1-72, Cl. 57-93.
- Williams, David M., to Church, Bruce, Inc. Planting method and apparatus. 3,653,550, 4-4-72, Cl. 222-136.
- Williams, Dennis C.: *See—*
- Russakoff, Robert S.; De Luca, Carlo Bruno; Schenker, Henry; Henchcliffe, Alfred L.; and Williams, Dennis C., 3,694,694.
- Williams, Derek: *See—*
- Cornforth, David Arthur; Waddan, Dhafir Yusuf; and Williams, Derek, 3,641,106.
- Price, Frederick William; and Williams, Derek, 3,643,514.
- Waddan, Dhafir Yusuf; and Williams, Derek, 3,642,886.
- Waddan, Dhafir Yusuf; and Williams, Derek, 3,661,995.
- Waddan, Dhafir Yusuf; and Williams, Derek, 3,697,534.
- Williams, Dewey H.: *See—*
- Cutting, Arch E.; Owens, Carlos L.; Williams, Dewey H.; and Hooper, Felix E., 3,677,305.
- Williams, Donald B.: *See—*
- Currier, Jonathan E.; and Williams, Donald B., 3,685,254.
- Williams, Donald J.: *See—*
- Newman, Donald J.; Williams, Donald J.; and Berg, John R., 3,682,684.
- Williams, Donald J., to Minnesota Mining and Manufacturing Company. Image transfer sheet and method. 3,632,377, 1-4-72, Cl. 117-36.2.
- Williams, Donald M.: *See—*
- Selby, Richard N.; and Williams, Donald M., 3,705,124.
- Williams, Earl J.; and McLain, James E., to Precision-Cincinnati, Inc. Method and means for applying O-rings. 3,686,741, 8-29-72, Cl. 29-450.000.
- Williams, Earl P.: *See—*
- Field, Nathan D.; and Williams, Earl P., 3,684,776.
- Field, Nathan D.; and Williams, Earl P., 3,684,777.
- Field, Nathan D.; and Williams, Earl P., 3,689,439.
- Schultz, Herman S.; Katzenstein, William; and Williams, Earl P., 3,676,408.
- Williams, Edgar E.: *See—*
- Cory, Victor W.; Williams, Edgar E.; and Howard, Robert J., 3,670,702.
- Williams, Elizabeth P.: *See—*
- Ingersoll, Clyde E.; and Williams, Reginald V., Sr., 3,667,937.
- Williams, Eugene, to United States Steel Corporation. Stainless steel. 3,690,870, 9-12-72, Cl. 75-124.000.
- Williams, Everard M.: *See—*
- Haswell, Walter T., III; Hockenberry, Terry O.; and Williams, Everard M., 3,663,787.
- Williams, Floyd B.: *See—*
- Rogosch, John E.; and Williams, Floyd B., 3,687,764.
- Williams, Francis A., to Eastman Kodak Company. Camera cocking mechanism. 3,673,941, 7-4-72, Cl. 95-31.0ac.
- Williams, Frank Ronald; Whitehead, Jack; Marshall, Jefferson; Conners, Alan; and Gosden, Derek Vernon, to British Titan Products Company Limited. Beneficiating iron-containing titaniferous material. 3,649,243, 3-14-72, Cl. 75-1.
- Williams, Frank Ronald; Whitehead, Jack; Marshall, Jefferson; Conners, Alan; and Gosden, Derek Vernon, to British Titan Products Company Limited. Process of beneficiating titaniferous beach sand. 3,677,740, 7-18-72, Cl. 75-1.000.
- Williams, Franklin C., to Eastman Kodak Company. Sound movies and methods of making same. 3,666,356, 5-30-72, Cl. 352-5.000.

- Williams, Frederick R., to Dreamland Electrical Appliances Limited. Electrically heated pads or blankets. 3,668,367, 6-6-72, Cl. 219-212.
- Williams Furnace Co.: *See—*
Skaife, Stanly F., 3,667,450.
- Williams, Garold H. Instant water heater. 3,687,128, 8-29-72, Cl. 126-350.000.
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- Williams, Gerald G. Play devices. 3,643,942, 2-22-72, Cl. 272-60.
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- Williams Gold Refining Co., Inc.: *See—*
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- Petner, Eugene J.; Baumann, Erwin; and Cornell, John A., 3,632,677.
- Williams Gun Sight Co.: *See—*
Williams, Paul D., 3,671,000.
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Barbee, Charles L.; Williams, Harlan D.; and Stracener, James R., 3,668,682.
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- Williams, Harry Albert. Cushion protector. 3,693,619, 9-26-72, Cl. 128-149.000.
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- Williams, Helga: *See—*
Williams, James M.; and Williams, Helga, 3,641,926.
- Williams, Herschel C.: *See—*
Schultz, Henry G.; Williams, Herschel C.; Neureiter, Norman P.; and Bown, Delos E., 3,655,718.
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Bown, Delos E.; Neureiter, Norman P.; Schutze, Henry G.; and Williams, Herschel, 3,691,132.
- Williams, Howard W.: *See—*
Hoffman, Lawrence C.; Rudnicki, Mark I.; and Williams, Howard W., 3,702,110.
- Williams Instruments, Inc.: *See—*
Williams, Robert A., 3,641,430.
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- Williams, Jack L. R.: *See—*
Reynolds, George A.; Laakso, Thomas M.; Borden, Douglas G.; and Williams, Jack L. R., 3,696,072.
- Williams, James B.: *See—*
Bromley, Leo L.; and Williams, James B., 3,635,401.
- Williams, James E.: *See—*
Maieron, Theodore; Roe, Harry L., Jr.; and Williams, James E., 3,703,254.
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Ingersoll, Clyde E.; and Williams, Reginald V., Sr., 3,667,937.
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- Williams, John Edward. Treatment of ingot moulds. 3,686,013, 8-22-72, Cl. 117-5.100.
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- Williams, John S. Production of fibrous logs by continuously passing slurry through a forming chambers. 3,686,070, 8-22-72, Cl. 162-293.000.
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Brook, James H. T.; and Williams, Joyce, 3,679,585.
- Williams, Julian E. Spring fingers for harvesting machines. 3,645,339, 2-29-72, Cl. 171-61.
- Williams, Keith A.: *See—*
Fox, Homer M.; Ruehlen, Forrest N.; and Williams, Keith A., 3,657,101.
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- Turner, Leonard; and Williams, Keith Vaughan, 3,642,931.
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- Williams, Kenneth J. Necktie-supporting member. 3,631,541, 1-4-72, Cl. 2-153.
- Williams, Lamar: *See—*
Murphy, Kenneth Earl; Eubank William Marion; and Williams, Lamar, 3,667,776.
- Williams, Laurence Lyman: *See—*
Coscia, Anthony Thomas; and Williams, Laurence Lyman, 3,658,640.
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- Williams, Leonard H. Automatic pipeline straightener and sprinkler head leveler for sprinkler irrigation systems. 3,658,248, 4-25-72, Cl. 239-73.
- Williams, Leslie G.: *See—*
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- Williams, Lyle G.: *See—*
Harp, Richard D.; and Williams, Lyle G., 3,696,561.
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Faria, Sixdeniel; and Williams, Lyle K., 3,655,575.
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- Williams, Melvin F., to United States of America, Navy. Apparatus for improving the lane resolution capabilities of omega navigation receivers. 3,665,469, 5-23-72, Cl. 343-105.000.
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- Williams, Merton E.: *See—*
Sweet, Harold C., 3,672,959.
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- Williams, Nicholas. Wrapping for tree root balls. 3,634,970, 1-18-72, Cl. 47-37.
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- Williams, Robert M., 3,637,145.
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Kegelman, Thomas D.; and Williams, Peter R., 3,671,956.
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Curry, Stephen M.; and Williams, Philip A., 3,633,199.
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- Williams, Ralph, to Torrington Company Limited, The. Universal joints. 3,662,569, 5-16-72, Cl. 64-17.00a.
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- Turk, Stanley D.; and Williams, Ralph P., 3,644,470.
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- Williams, Ralph P., to Phillips Petroleum Company. Production of sulfonyl isocyanates from sulfonamides in a sulfolane solvent. 3,689,549, 9-5-72, Cl. 260-545.00r.
- Williams, Ralph P., to Phillips Petroleum Company. Mercaptonitriles for the removal of tarnish on metals. 3,707,507, 12-26-72, Cl. 252-156.000.
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- Williams, Raymond L., to General Electric Company. Compressor discharge pressure computer. 3,631,677, 1-4-72, Cl. 60-243.
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Ingersoll, Clyde E.; and Williams, Reginald V., Sr., 3,667,937.
- Williams, Richard: *See—*
Amodei, Juan Jose; and Williams, Richard, 3,660,818.
- Williams, Richard Anthony: *See—*
Bush, Stephen Frederick; Shires, Michael John; Johnson, Frank Williams; and Williams, Richard Anthony, 3,707,547.
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Uffelman, Malcolm R.; Williams, Richard E.; and Kleiner, Norbert, 3,679,830.
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- Williams, Richard E.; and Holford, Warren L., to Scope Incorporated. Audio to digital converter. 3,668,559, 6-6-72, Cl. 332-9.00r.
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- Williams, Richard M.: *See—*
Wallace, Harry L.; and Williams, Richard M., 3,636,521.
- Williams, Richard Nathan, to Ciba-Geigy Corporation. Mineral tanned leather treated with dialdehyde starch and benzene polycarboxylic acid compositions. 3,635,655, 1-18-72, Cl. 8-94.26.
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- Williams, Robert C., to Dresser Industries, Inc. Well packer apparatus. 3,701,382, 10-31-72, Cl. 166-183.000.
- Williams, Robert C., III, to Cutler-Hammer, Inc. Auxiliary support means for electrical switch actuator. 3,648,004, 3-7-72, Cl. 200-166.
- Williams, Robert C., III, to Cutler-Hammer, Inc. Planetary detent for rotary devices. 3,693,475, 9-26-72, Cl. 74-527.000.
- Williams, Robert E.: *See—*
Ditter, Jerome F.; Klusmann, Eugene B.; and Williams, Robert E., 3,660,494.
- Williams, Robert F.: *See—*
De Palma, James J.; Morrison, Edward D.; and Williams, Robert F., 3,682,530.
- Williams, Robert F., Jr.: *See—*
Barbehenn, Herbert S.; and Williams, Robert F., Jr., 3,666,585.
- Dotson, Billy R.; and Williams, Robert F., Jr., 3,637,418.
- Dotson, Billy R.; Schrader, Robert W.; Twomey, Marilyn A.; and Williams, Robert F., Jr., 3,705,148.
- Williams, Robert G.: *See—*
Webbere, Fred J.; and Williams, Robert G., 3,642,058.
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Guarino, John P.; and Williams, Robert H., 3,635,807.
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- Williams, Robert J.: *See—*
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- Williams, Robert J., to Dover Molded Products Company. Throw-away closure for test tube. 3,640,418, 2-8-72, Cl. 215-41.
- Williams, Robert J., to Cadillac Products, Inc. Automobile seat cover. 3,695,692, 10-3-72, Cl. 297-229.000.
- Williams, Robert M., to Williams Patent Crusher & Pulverizer Co., Inc. Reversible material reducing mill. 3,637,145, 1-25-72, Cl. 241-189.
- Williams, Robert M., to Williams Patent Crusher & Pulverizer Co., Inc. Material reducing hammer mill. 3,667,694, 6-6-72, Cl. 241-186.00r.
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- Williams, Robert M., to Genova Products. Plastic pipe fitting and closure. 3,677,301, 7-18-72, Cl. 138-92.000.
- Williams, Robert M., to Williams Patent Crusher & Pulverizer Co., Inc. Material separator apparatus. 3,702,682, 11-14-72, Cl. 241-48.000.
- Williams, Rodney B.: *See—*
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- Williams, Roland H., to Sparton Corporation. Method of battery plate manufacture utilizing ultrasonic vibrations. 3,692,586, 9-19-72, Cl. 136-67.000.
- Williams, Ronald H.: *See—*
Groff, Gaylord L.; and Williams, Ronald H., 3,692,715.
- Williams, Roy L.: *See—*
Laird, William Burton; Williams, Roy L.; and Muska, Allen V., 3,671,022.
- Williams, Roy M., Jr.: *See—*
Longland, John R.; Williams, Roy M., Jr.; Sutton, Howard D.; and Scopelite, Thomas M., 3,641,324.
- Stoddard, Robert D.; Schumacher, Arnold; Conley, Grant W.; and Williams, Roy M., Jr., 3,665,454.
- Williams, Samuel S.: *See—*
Yant, Milfred R., 3,652,447.
- Williams, Sidney B.: *See—*
Dornfeld, John E.; and Williams, Sidney B., 3,638,083.
- Williams, Sidney B.; and Baumann, Martin E., to Sprague Electric Company. Wire pull and tape machine. 3,636,610, 1-25-72, Cl. 29-203.
- Williams, Stanley Austen. Electrode boilers. 3,688,077, 8-29-72, Cl. 219-284.000.
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- Williams, Stanley J. Camp-stove cabinet. 3,663,081, 5-16-72, Cl. 312-236.

- Williams, Sumner H., to GAF Corporation. Apparatus for producing heat induced effects on flexible substrates. 3,648,488, 3-14-72, Cl. 68-13.
- Williams, Sylvester V., to Andrus, Elwin A. Method of continuously teeming and solidifying virgin fluid metals. 3,666,537, 5-30-72, Cl. 117-114.00r.
- Williams, Terence: *See—*
Davies, Gordon Idris; Killay, Swansea; and Williams, Terence, 3,678,888.
- Williams, Theodore M. Internal combustion engine exhaust burner. 3,683,624, 8-15-72, Cl. 60-275.000.
- Williams, Theodore S.: *See—*
Dorn, Rolf K.; and Williams, Theodore S., 3,676,519.
- Williams, Thomas: *See—*
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- Williams, Thomas A., to International Business Machines Corporation. Field effect transistor dynamic logic buffer. 3,662,188, 5-9-72, Cl. 307-233.
- Williams, Thomas B.: *See—*
Norman, Vello; and Williams, Thomas B., 3,664,352.
Norman, Vello; Williams, Thomas B.; Kallianos, Andrew G.; and Mold, James D., 3,703,901.
- Williams, Thomas R., to Sperry Rand Corporation. Solid state memory array. 3,691,535, 9-12-72, Cl. 340-173.
- Williams, Thomas V. Dwelling. 3,638,379, 2-1-72, Cl. 52-185.
- Williams, Virgil C. Cryogenic crushing of materials. 3,666,185, 5-30-72, Cl. 241-17.000.
- Williams, Virgil, Jr.: *See—*
Evans, Richard V.; Williams, Virgil, Jr.; and Reiher, Max A. W., 3,636,876.
- Williams, Wallace L.; and Wright, David F., to Westinghouse Electric Corporation. Remote reading measuring system. 3,634,663, 1-11-72, Cl. 235-151.31.
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- Williams, Willard B. Pressure relief mechanism. 3,631,696, 1-4-72, Cl. 72-4.
- Williams, William, to Serck Industries Limited. Butterfly type fluid control valves. 3,698,686, 10-17-72, Cl. 251-306.000.
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- Williams, William W., to Lockheed Aircraft Corporation. Flap actuating mechanism. 3,655,149, 4-11-72, Cl. 244-42.
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- Williams, Winston F., to Collins Radio Company. Centering device. 3,698,516, 10-17-72, Cl. 185-34.000.
- Williamson, Albert C.: *See—*
Hepner, Neal; and Williamson, Albert C., 3,683,802.
- Williamson, Alton M.: *See—*
Satterwhite, Lawrence E.; Williamson, Alton M.; and Shindler, George R., 3,678,958.
- Williamson, Charles W.: *See—*
North, Howard C.; and Williamson, Charles W., 3,702,224.
- Williamson, Clyde E.; and Baker, Donald R., to TRW Inc. Solar panel. 3,698,958, 10-17-72, Cl. 136-89.000.
- Williamson, David Theodore Nelson: *See—*
Molins, Desmond Walter; Williamson, David Theodore Nelson; McCombie, Alan Keith; and Stone, Horace Alexander, 3,633,735.
- Rosenberg, Barnett; Brown, Felix H.; and Williamson, David Theodore Nelson, 3,643,014.
- Williamson, Donald E., to Cordis Corporation. Angiographic injector with pump motor starting control. 3,674,009, 7-4-72, Cl. 128-2.00a.
- Williamson, Edward E.: *See—*
Hanley, Harold G.; and Williamson, Edward E., 3,699,612.
- Williamson, J. E. (Johnnie): *See—*
Arnold, Lucius P., 3,640,025.
- Williamson, James Norris: *See—*
Heit, Allyn Harold; and Williamson, James Norris, 3,663,417.
Heit, Allyn Harold; and Williamson, James Norris, 3,681,213.
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- Williamson, Jervis C. Memo tape. 3,672,597, 6-27-72, Cl. 242-107.00r.
- Williamson, John Duff: *See—*
Schneble, Frederick W., Jr.; Zeblicky, Rudolph J.; McCormack, John F.; and Williamson, John Duff, 3,650,777.
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- Williamson, John E.: *See—*
Mc Kenna, Robert P.; and Williamson, John E., 3,653,091.
- Williamson, John S., to United Aircraft Corporation. Dual fluid crossover control. 3,706,201, 12-19-72, Cl. 60-39.28r.
- Williamson, Paul C. Football sideline chain marker. 3,678,592, 7-25-72, Cl. 33-289.000.
- Williamson, Roger C.: *See—*
Onopchenko, Anatoli; Schulz, Johann G. D.; and Williamson, Roger C., 3,676,488.
- Williamson, Roger C., to Gulf Research & Development Company. Preparation of aromatic carboxylic acids. 3,644,506, 2-22-72, Cl. 260-524.
- Williamson, T. D., Inc.: *See—*
Ver Nooy, Burton, 3,649,983.
Ver Nooy, Burton, 3,665,966.
Vernooij, Burton, 3,704,478.
- Williamson, Thomas B.: *See—*
Brokke, Mervin E.; Williamson, Thomas B.; and Lukes, George E., 3,654,333.
Brokke, Mervin E.; Williamson, Thomas B.; and Lukes, George E., 3,654,362.
Brokke, Mervin E.; Williamson, Thomas B.; and Lukes, George E., 3,689,662.
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Gutman, Arnold D.; and Williamson, Thomas B., 3,644,640.
- Williamson, Thomas N., 75% to Jacobs Associates. Tunneling machine for non-circular bores. 3,643,998, 2-22-72, Cl. 299-31.
- Williamson, Thomas N., 75% to Jacobs Associates. Mining method for methane drainage and rock conditioning. 3,650,564, 3-21-72, Cl. 299-11.
- Williamson, Wayne T.; and Purko, Myro, to Kraftco Corporation. Manufacture of blue-veined cheese. 3,635,734, 1-18-72, Cl. 99-116.
- Williamson, William A., to Clark Equipment Company. Inflatable fluid pad with shut-off valve. 3,670,838, 6-20-72, Cl. 180-124.000.
- Williamson, William A., to Clark Equipment Company. Control system for lift trucks. 3,703,806, 11-28-72, Cl. 60-19.000.
- Willard, Barbara Ann: *See—*
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- Willingham, Eugene A., to Eltra Corporation. Method and apparatus for measuring the state of charge of a battery using a reference battery. 3,657,639, 4-18-72, Cl. 324-29.5.
- Williner, Mario; and Breschi, Enzo, to Minnesota Mining and Manufacturing Company. X-ray cassette. 3,652,853, 3-28-72, Cl. 250-66.
- Willing, David N.: *See—*
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- Willing, Richard S., to Universal Testproducts, Inc. Dual ignitor probe. 3,634,752, 1-11-72, Cl. 324-15.
- Willinger, Allan H., to Metaframe Corporation. Siphoning device. 3,640,302, 2-8-72, Cl. 137-142.
- Willinger, Allan H., to Metaframe Corporation. Aerating device. 3,640,516, 2-8-72, Cl. 261-121.
- Willinger, Allan H., to Metaframe Corporation. Automatic siphoning filtration device. 3,669,297, 6-13-72, Cl. 210-169.000.
- Willinger, Allan H., to Metaframe Corporation. Priming device for a siphon. 3,670,758, 6-20-72, Cl. 137-150.000.
- Willinger, Allan H., to Metaframe Corporation. Artificial aquarium plant simulating a natural plant. 3,682,753, 8-8-72, Cl. 161-18.000.
- Willinger, Allan H., to Metaframe Corporation. Valveless pump for an aquarium. 3,687,291, 8-29-72, Cl. 210-169.000.
- Willingham, Harold E. Method of making centrifugal casting mold. 3,648,757, 3-14-72, Cl. 164-138.
- Willingham, John H. Concrete form surfacing. 3,650,795, 3-21-72, Cl. 117-5.1.
- Willis, Arnold L.; and Wortman, Harold, to MSL Industries, Inc. Material guide members for a compressing and conveying apparatus. 3,660,964, 5-9-72, Cl. 53-125.
- Willis, Arnold L., to MSL Industries, Inc. Method of making pillows. 3,673,757, 7-4-72, Cl. 53-21.00w.
- Willis Bros., Inc.: *See—*
Willis, Elmer Dryden, 3,665,555.
- Willis, Candler A., Jr.; and Judge, John R., to General Electric Company. Luminaire. 3,705,303, 12-5-72, Cl. 240-93.000.
- Willis, Cullie B., Jr., to Foster Wheeler Corporation. Apparatus and process for slag deposit removal. 3,701,341, 10-31-72, Cl. 122-392.000.
- Willis, David M., to Logan, Jonathan, Inc. Apparatus and method for doffing wound packages and donning empty cores. 3,682,403, 8-8-72, Cl. 242-18.00a.
- Willis, David Owen: *See—*
Boardman, Wilfred A.; and Willis, David Owen, 3,680,151.
- Willis, Donald: *See—*
Weiss, Donald Eric; Bolto, Brian Alfred; and Willis, Donald, 3,645,922.

- Willis, Elmer Dryden. Scallop processing. 3,662,431, 5-16-72, Cl. 17-48.
- Willis, Elmer Dryden, to Willis Bros., Inc. Scallop processing. 3,665,555, 5-30-72, Cl. 17-53.
- Willis, Frank M.: *See—*
Sonnowicz, Edward J.; and Willis, Frank M., 3,638,754.
- Willis, Grant N., to Russell, Arthur G., Company, Incorporated, The. Vibratory feeder. 3,655,032, 4-11-72, Cl. 198-220.
- Willis, Grant N., 25% to Clymer, Frederick H., Jr., 5% to Whiting, John R., 10% to Jones, Mack C., 3% to Dallan, Robert E. and 1% to Dion, Warren E. Switching system. 3,662,301, 5-9-72, Cl. 335-112.
- Willis, Jack B.: *See—*
Spainhour, Bettye G.; and Willis, Jack B., 3,690,446.
- Willis, James L., Jr.: *See—*
Burruss, George T.; and Willis, James L., Jr., 3,679,741.
- Willis, John George, to Solid State Technology, Inc. Emergency signalling transmitter. 3,633,106, 1-4-72, Cl. 325-185.
- Willis, John R., to Electromitor, Inc. Telephone dialing equipment. 3,702,902, 11-14-72, Cl. 179-5.00r.
- Willis, John T.: *See—*
Riddle, Franklin D.; and Willis, John T., 3,672,513.
- Willis, Martha Ann: *See—*
Gillikin, Bobby G., 3,646,497.
- Willis, Robin Burke, to Porta-Test Manufacturing Ltd. Hub assembly for in-line centrifugal separator. 3,693,329, 9-26-72, Cl. 55-457.000.
- Willis, Roger L., to Eastman Kodak Company. Automatic lamp changer and spare lamp indicator circuit. 3,678,286, 7-18-72, Cl. 307-38.000.
- Willis, Roland G.: *See—*
Van Der Voorn, Carol R.; and Willis, Roland G., 3,707,374.
- Willis, Thomas G., to Westinghouse Electric Corporation. Interval timing mechanism with improved cam and cam follower structure. 3,686,450, 8-22-72, Cl. 200-38.00r.
- Willis, William: *See—*
Pratt, Ronald George; Willis, William; and Singleton, John Stephenson, 3,688,223.
- Willis, William D.: *See—*
Schneider, Raymond T.; Taylor, James A.; and Willis, William D., 3,653,812.
- Vandenberg, Edwin J.; and Willis, William D., 3,694,258.
- Willis, William D., to Hercules Incorporated. Expanded cross-linked polymers of epihalohydrin. 3,691,113, 9-12-72, Cl. 260-2.50r.
- Willis, William F. Double package. 3,696,991, 10-10-72, Cl. 229-53.000.
- Willison, Donald: *See—*
Jwuc, Karl John; and Willison, Donald, 3,637,089.
- Willits, Samuel P.: *See—*
Mohan, William L.; and Willits, Samuel P., 3,643,068.
Mohan, William L.; and Willits, Samuel P., 3,663,803.
- Willits, Samuel P., to Spartans Ltd. Mark sensing photo sensor. 3,643,098, 2-15-72, Cl. 250-202.
- Willits, Clark M.: *See—*
Gallagher, John P.; Meyers, Robert M.; Sorg, Earl H.; and Willits, Clark M., 3,697,472.
- Willm, Yves: *See—*
Tiraspolsky, Wladimir; Rouviere, Roger; and Willm, Yves, 3,700,049.
- Willman, Bertram T., to Esso Production Research Company. Arctic ice platform. 3,675,429, 7-11-72, Cl. 61-46.000.
- Willman, George N.: *See—*
Rouso, Jack J., Jr.; and Willman, George N., 3,678,216.
- Willman-Lord, Inc.: *See—*
Schneider, Raymond T.; Taylor, James A.; and Willis, William D., 3,653,812.
- Willmann, Norman L.: *See—*
Wheadon, Ellis G.; and Willmann, Norman L., 3,679,789.
Wheadon, Ellis G.; and Willmann, Norman L., 3,690,950.
- Willmer, John Stanley; and Anderson, Francis Maurus, to Muirhead Limited. Facsimile apparatus. 3,662,103, 5-9-72, Cl. 178-7.6.
- Willmore, Charles R., to FMC Corporation. Embossed core wrap for electrical cables. 3,701,840, 10-31-72, Cl. 174-107.000.
- Willner, David, to Bristol-Myers Company. 3-Azidomethyl-7(aminophenyl) or thienyl acetamidoceph-3-em-4-oic acids. 3,634,418, 1-11-72, Cl. 260-243.
- Willner, Kurt: *See—*
United States of America, National Aeronautics and Space Administration, 3,663,944.
- Willner, Robert. Ring with detachable ornament having uncovered inner face. 3,693,376, 9-26-72, Cl. 63-15.600.
- Willoughby, Donald A.: *See—*
Allen, Edwin L.; and Willoughby, Donald A., 3,662,587.
- Willoughby, Joseph A.: *See—*
Dubuc, Rene A.; White, Sheldon S.; and Willoughby, Joseph A., 3,686,457.
- Willoughby, Timothy B.: *See—*
Haskett, Harlan G.; and Willoughby, Timothy B., 3,650,443.
- Willow Hill Industries, Inc.: *See—*
Puzik, Otto V., 3,701,564.
- Willows, James D., to Potlatch Forests, Inc. Edging picker. 3,687,260, 8-29-72, Cl. 198-24.000.
- Wills, Brian Charles: *See—*
Monds, Derek Henry; and Wills, Brian Charles, 3,694,563.
- Wills, Donald F., to Pilot Research Corporation. Fluid pressure intensifier. 3,656,296, 4-18-72, Cl. 60-26.1.
- Wills, Frank Eugene, to Borg-Warner Corporation. Electronic safety control system for vehicle compressors. 3,686,891, 8-29-72, Cl. 62-158.000.
- Wills, Graham Boyce; and Walker, Frank Stanley, to British Insulated Callender's Cables Limited. Manufacture of high voltage insulated electric cables. 3,701,683, 10-31-72, Cl. 117-232.000.
- Wills, James H.: *See—*
Condon, Eugene H.; Robinson, James E.; and Wills, James H., 3,666,594.
- Wills, John E.: *See—*
Grundy, Douglas; and Wills, John E., 3,698,420.
- Wills, Mac Gordon. Cable cylinders. 3,684,035, 8-15-72, Cl. 173-147.000.
- Wills, MacGordon. Vehicles for rock drill guiding and supporting structures. 3,642,075, 2-15-72, Cl. 173-23.
- Willsey, Charles H., to Seymour Foods, Inc. Carton closing apparatus. 3,699,744, 10-24-72, Cl. 53-131.000.
- Willsey, William B.; and Brogan, Daniel J. Process and composition for dissolving copper oxide. 3,637,508, 1-25-72, Cl. 252-87.
- Willsey, Douglas A.; Habel, Ronald D.; and Shepherd, Robert D., to Uniroyal, Inc. Method of making a formed and bonded plastic sheet structure. 3,654,013, 4-4-72, Cl. 156-212.
- Willson, James K. V.: *See—*
Esckridge, Marshall; and Willson, James K. V., 3,683,891.
- Willson, James R.: *See—*
Jackson, Wilbur F.; and Willson, James R., 3,664,582.
- Willson, James R.; Krueger, Keith T.; Tyler, Hugh J.; and Jackson, Wilbur F., to Robertshaw Controls Company. Temperature responsive switch assemblies. 3,634,803, 1-11-72, Cl. 337-123.
- Willson, James R.; and Krueger, Keith T., to Robertshaw Controls Company. Automobile thermostat. 3,645,443, 2-29-72, Cl. 236-34.
- Willson, James R.; and Carey, Donald W., to Robertshaw Controls Company. Method and apparatus for stabilizing and employing temperature sensitive materials exhibiting martensitic transitions. 3,652,969, 3-28-72, Cl. 337-140.
- Willson, James R., to Robertshaw Controls Company. Fail-safe electric ignition systems. 3,660,005, 5-2-72, Cl. 431-66.
- Willson, Philip J.: *See—*
Leising, Maurice B.; Greif, Herman J., Jr.; Kirberg, James R.; and Willson, Philip J., 3,647,393.
- Teague, Dwight Maxwell; Bertrand, William F.; Willson, Philip J.; and Ammermann, Frank E., 3,667,975.
- Willuweit, Werner, to La Salle Machine Tool, Inc. Air cushion support apparatus for transfer structure. 3,648,852, 3-14-72, Cl. 214-1.
- Willy, John Robert; and Blase, Emil F., to Sangamo Electric Company. Sealed casing for electrolytic capacitor with pressure relief vent. 3,688,162, 8-29-72, Cl. 317-230.000.
- Willy Whoper, Inc.: *See—*
Coates, Leroy, 3,643,948.
- Willyoung, David M.: *See—*
Kudlacik, Henry W.; and Willyoung, David M., 3,702,964.
- Willyoung, David M., to General Electric Company. Polyphase generator windings. 3,660,705, 5-2-72, Cl. 310-198.
- Wilmarth, Paul Carleton, to RCA Corporation. Horizontal oscillator disabling circuit control apparatus. 3,692,932, 9-19-72, Cl. 178-7.50r.
- Wilmarth, Paul Carleton: *See—*
Fitzgerald, William Vincent, Jr.; and Wilmarth, Paul Carleton, 3,688,031.
- Wilmes, Raymond A., to Xerox Corporation. Electrostatic label printer. 3,674,352, 7-4-72, Cl. 355-3.000.
- Wilmeth, Claude H., to N-S-W Corporation. Wrenching apparatus and method. 3,706,244, 12-19-72, Cl. 81-57.320.
- Wilmot, Fullerton Richard D.: *See—*
Cantwell, Thomas C., Jr.; and Wilmot, Fullerton Richard D., 3,683,380.
- Wilmot, Richard D.; and Ballantyne, Jack R., to Hughes Aircraft Company. Moving target platform digital video mapper. 3,705,936, 12-12-72, Cl. 343-7.700.
- Wilmoth, Frankie W. Tack and saddle rack. 3,688,912, 9-5-72, Cl. 211-3.000.
- Wilms, Carl A.: *See—*
Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,648,858.
Barron, Charles D.; Peterson, Earl A.; Stark, Gary K.; and Wilms, Carl A., 3,675,900.
- Wilms, Carl Alfred: *See—*
Geczy, Bela; and Wilms, Carl Alfred, 3,691,875.
Nicolson, Garth Fancher; and Wilms, Carl Alfred, 3,704,638.
- Wilms, Carl Alfred, to Jackson, Byron, Inc. Reverse stop for power tongs. 3,706,243, 12-19-72, Cl. 81-57.180.
- Wilms, Karl-Heinz, to Optische Werke G. Rodenstock. Assembly for a stereoscopic microscope. 3,656,829, 4-18-72, Cl. 350-33.

- Wilnau, John A. Concrete building component. 3,654,742, 4-11-72, Cl. 52-744.
- Wilner, Leslie B., to Becton Dickinson Electronics Company, mesne. Pressure sensor. 3,638,481, 2-1-72, Cl. 73-141.
- Wilputte Corporation, mesne: *See—*
McCullough, Charles D.; and Schroeder, Leo G., 3,633,232.
McCullough, Charles D.; and Schroeder, Leo G., 3,633,233.
McCullough, Charles D., 3,660,859.
McCullough, Charles D., 3,681,201.
- Wilsch, Herbert: *See—*
Ehgartner, Gabriele; and Wilsch, Herbert, 3,697,018.
Winkler, Alfred; Wilsch, Herbert; and Winkler, Friedrich, 3,675,992.
- Wilsch, Herbert, to Agfa-Gevaert Aktiengesellschaft. Mechanism for threading motion picture film in cinematographic apparatus. 3,672,602, 6-27-72, Cl. 242-192.000.
- Wilsch, Herbert; and Muller, Hermann, to Agfa-Gevaert Aktiengesellschaft. Film transporting mechanism for cinematographic apparatus. 3,675,996, 7-11-72, Cl. 352-194.000.
- Wilsdon, Thomas A.: *See—*
Collins, James D.; and Wilsdon, Thomas A., 3,673,525.
- Wilsdon, Thomas A.; and Collins, James D., to Westinghouse Electric Corporation. Contactor. 3,659,237, 4-25-72, Cl. 335-191.
- Wilsher, Rudolph S.: *See—*
Kruse, Uno; Herman, Daniel F.; and Wilsher, Rudolph S., 3,681,289.
- Wilshin, Frank W.: *See—*
Bennett, John P.; and Wilshin, Frank W., 3,658,272.
- Wilshire, Robert A.: *See—*
Abarotin, Eugene V.; Nicely, Thomas E.; and Wilshire, Robert A., Jr., 3,650,315.
- Wilson & Co., Inc., mesne: *See—*
Wienert, Lloyd C., 3,664,302.
- Wilson & Longbottom Limited: *See—*
Porter, Ian S., 3,665,970.
Porter, Ian S., 3,669,156.
- Wilson, Alan: *See—*
Morley, Frederick William Walton; Bennett, George Henry; Harvey, Richard George; and Wilson, Alan, 3,684,857.
Snodgrass, Kenneth William; Steele, William Henry; Wilson, Alan; and Phelps, Ross Leslie, 3,685,613.
- Wilson, Alan D.: *See—*
Strope, Douglas H.; and Wilson, Alan D., 3,672,744.
- Wilson, Alexander J.; and Dawson, Stuart B., to Girling Limited. Hydraulic braking systems for vehicles. 3,659,421, 5-2-72, Cl. 60-54.5.
- Wilson, Alfred L.: *See—*
Ossenkop, Robert J.; and Wilson, Alfred L., 3,680,858.
- Wilson, Alonzo A.: *See—*
Prentky, Peter I.; and Wilson, Alonzo A., 3,665,327.
- Wilson, Anton, to Bauer, Anton. Motion picture camera. 3,653,752, 4-4-72, Cl. 352-72.
- Wilson, Archie R.: *See—*
Slator, Damon T.; and Wilson, Archie R., 3,651,906.
Slator, Damon T.; and Wilson, Archie R., 3,658,270.
Slator, Damon T.; and Wilson, Archie R., 3,690,136.
- Wilson, Arthur K. Lighting structure. 3,700,877, 10-24-72, Cl. 240-3.000.
- Wilson, Austin F., to General Electric Company. Cam assembly having multiple cams with integral cam positioning means thereon. 3,656,370, 4-18-72, Cl. 74-568.
- Wilson, Barrie Alexander, to American Cyanamid Company. Fray resistant catgut sutures. 3,698,853, 10-17-72, Cl. 8-94.110.
- Wilson, Benjamin B.; and Wortham, Joseph S., to Allied Chemical Corporation. Urea-containing ruminant feed. 3,644,642, 2-22-72, Cl. 424-319.
- Wilson, Benjamin B., to Allied Chemical Corporation. Ruminant feed composition. 3,653,909, 4-4-72, Cl. 99-2.
- Wilson, Benjamin John: *See—*
McClincy, Richard J.; Downing, James H.; and Wilson, Benjamin John, 3,660,298.
McClincy, Richard Joseph; Downing, James Herbert; and Wilson, Benjamin John, 3,704,094.
- Wilson, Benjamin John; McClincy, Richard J.; and Downing, James Herbert, to Union Carbide Corporation. Process and furnace charge for use in the production of ferrosilicon alloys. 3,704,114, 11-28-72, Cl. 75-3.000.
- Wilson, Billy F., to Dresser Industries, Inc. Compensated density logging system having a filter only on the short-spaced detector. 3,654,470, 4-4-72, Cl. 250-83.6.
- Wilson, Calvin L., to Reynolds Metals Company. Disposable broiling pan. 3,640,209, 2-8-72, Cl. 99-446.
- Wilson, Calvin L., to Reynolds Metals Company. Cooking pan having article-supporting wall above bottom wall. 3,704,142, 11-28-72, Cl. 99-446.000.
- Wilson, Calvin L.; and Fox, John H., Jr., to Reynolds Metals Company. Method of making actuating capsule for fluid pressure regulator. 3,707,028, 12-26-72, Cl. 29-404.000.
- Wilson, Charles: *See—*
Alger, Philip Langdon; and Wilson, Charles, 3,643,117.
- Wilson, Charles A.; and Villo, Joseph P. Non-rotatable fastener. 3,687,501, 8-29-72, Cl. 287-189.36f.
- Wilson, Charles B.: *See—*
Dreckmann, Hubert; Wilson, Charles B.; and Wagenblast, Richard K., 3,696,290.
- Wilson, Charles P., Jr.: *See—*
Blazek, James J.; Baker, Richard W.; and Wilson, Charles P., Jr., 3,660,274.
- Wilson, Charles V.: *See—*
Ford, John A., Jr.; and Wilson, Charles V., 3,661,899.
- Wilson, Christopher George: *See—*
Paddison, Eric; Wilson, Christopher George; and Gray, Frederick Martin, 3,699,431.
- Wilson, Craig L.: *See—*
Bright, James A.; and Wilson, Craig L., 3,684,964.
- Wilson, David A.: *See—*
James, Robert C.; Wilson, David A.; and Pringle, Frank E., Jr., 3,664,086.
- Wilson, David E.: *See—*
Thompson, Gene C.; Radomski, Joseph E.; and Wilson, David E., 3,680,220.
- Wilson, David G., to Massachusetts Institute of Technology. Electric guideway transportation system. 3,673,966, 7-4-72, Cl. 104-1.000.
- Wilson, David W.: *See—*
Munty, Richard P.; and Wilson, David W., 3,639,500.
- Wilson, Denney R., to Dana Corporation. Selective front wheel drive hub. 3,669,476, 6-13-72, Cl. 287-53.00r.
- Wilson, Dennis L., to Sylvania Electric Products, Inc. Signal processor. 3,691,549, 9-12-72, Cl. 340-261.000.
- Wilson, Donald C., to FMC Corporation. Control of hydrogen formation in pouches during heat treatment. 3,634,099, 1-11-72, Cl. 99-171.
- Wilson, Donald C., to FMC Corporation. Sealing method and apparatus. 3,650,088, 3-21-72, Cl. 53-127.
- Wilson, Donald C., to FMC Corporation. Method of purging air from containers. 3,658,562, 4-25-72, Cl. 99-215.
- Wilson, Donald C., to FMC Corporation. Apparatus for preserving delicate food products. 3,699,875, 10-24-72, Cl. 99-249.000.
- Wilson, Donald C., to FMC Corporation. Cooking and freezing products in flexible containers. 3,704,139, 11-28-72, Cl. 99-192.00r.
- Wilson, Donald E.: *See—*
Bergland, Glenn D.; and Wilson, Donald E., 3,662,161.
- Wilson, Donald J. M. Sailing craft. 3,691,976, 9-19-72, Cl. 114-39.000.
- Wilson, Donald James; and Kenyon, Derek, to Imperial Chemical Industries Limited. Macrofilamentary tire yarns. 3,638,706, 2-1-72, Cl. 152-359.
- Wilson, Donald L.; and Brealey, Graham J., to Courtaulds Limited. Wet-spinning of polyacrylonitrile. 3,632,699, 1-4-72, Cl. 264-38.
- Wilson, Donald R.: *See—*
Gilbert, Lloyd A., 3,658,103.
- Wilson, Donald R., to Pacific Plantronics, Inc. Telephone user set. 3,691,311, 9-12-72, Cl. 179-81.00b.
- Wilson, Donald Richard, to Du Pont de Nemours, E. I., and Company. Lewis acid catalyzed diacyl chloride-diphenol polyesterification. 3,702,838, 11-14-72, Cl. 260-47.00c.
- Wilson, Doyne L.; and Bennett, Robert B., to Oil Base, Inc. Drilling fluid and method of use. 3,634,235, 1-11-72, Cl. 252-8.5.
- Wilson, Earl, to Sales & Services, Inc. Handle grip for bails. 3,635,382, 1-18-72, Cl. 224-45.
- Wilson, Earl D.: *See—*
Katerndahl, Dean R.; Wilson, Earl D.; Macalalad, Fidel V.; and Ring, Gene C., 3,698,396.
- Wilson, Earl D.; and Ellmann, Norbert W., to Abbott Laboratories. Blood collection assembly. 3,654,924, 4-11-72, Cl. 128-214.
- Wilson, Earl David: *See—*
Chittenden, Richard Marion; Whitton, Alden William; Macalalad, Fidel Villaluna; Massman, Richard; and Wilson, Earl David, 3,690,315.
- Wilson, Edgar R.: *See—*
Lubowitz, Hyman R.; Wilson, Edgar R.; Jones, John F.; Burns, Eugene A.; and Braswell, Troy F., 3,632,428.
- Wilson, Edmund B., III: *See—*
Davidson, Donald R.; and Wilson, Edmund B., III, 3,702,102.
- Wilson, Edward L.: *See—*
Fiocco, Robert J.; and Wilson, Edward L., 3,687,837.
- Wilson, Edward L.; and Pennington, Robert E., to Esso Research and Engineering Company. Coal liquefaction at staged temperatures. 3,692,662, 9-19-72, Cl. 208-8.000.
- Wilson, Edward S. Ski and pole grips. 3,675,835, 7-11-72, Cl. 224-45.00s.
- Wilson, Eleanor A. Article transporting device. 3,693,994, 9-26-72, Cl. 280-36.00r.
- Wilson, Eric J.; and Briggs, Alan Henry, to British Steel Corporation. Resilient railway bogie side bearings. 3,680,490, 8-1-72, Cl. 105-199.00b.
- Wilson, Eric John; Brigg, Alan Henry; and Timmons, Eric, to English Steel Corporation, Limited. Articulate railway bogies. 3,705,555, 12-12-72, Cl. 105-196.000.

- Wilson, Eugene M.: *See—*
Fryrear, Max D.; and Wilson, Eugene M., 3,653,451.
- Wilson, Farris H., Jr., to Goodyear Tire & Rubber Company, The. Tetrahydroquinoxaline aldehyde reaction products as antioxidants. 3,706,742, 12-19-72, Cl. 260-250.00r.
- Wilson, Floyd A.: *See—*
Hansen, Theodore E.; and Wilson, Floyd A., 3,699,238.
- Wilson, Fred A.: *See—*
Moore, Glenn E.; Wilson, Fred A.; and Wood, Chester W., 3,646,974.
- Wilson, Fred A.; and Allen, Norman T., to Dover Corporation. Cap and sealing means therefor. 3,672,403, 6-27-72, Cl. 138-89.000.
- Wilson, Gardner P., to Gould, Inc., mesne. Linear three-dimensional gaging and form measuring machine. 3,675,333, 7-11-72, Cl. 33-23.00c.
- Wilson, Geoffrey, to B. & S. Massey Limited. Upsetting or forging machines. 3,703,823, 11-28-72, Cl. 72-406.000.
- Wilson, George, to Acme Visible Records, Inc. Document conveying means. 3,658,170, 4-25-72, Cl. 198-131.
- Wilson, George D., to Sperry Rand Corporation. Method of forming a tunnel structure for a magnetic plated wire memory array. 3,631,592, 1-4-72, Cl. 29-604.
- Wilson, George E. Fuse removal tool. 3,678,789, 7-25-72, Cl. 81-64.000.
- Wilson, George W., III: *See—*
Coats, John C.; and Wilson, George W., III, 3,674,984.
- Wilson, Glenn C. Carrying handles. 3,680,752, 8-1-72, Cl. 224-56.000.
- Wilson, Gordon Shirley, to Corporation of the City of Coventry. Rotary engines. 3,642,391, 2-15-72, Cl. 418-145.
- Wilson, Harold W., to Wilson Laboratories, Inc. Process for the preparation of heteropoly acid complex compounds of metaphosphoric metasilicic acid, metaphosphoric acid and phosphorous pentoxide. 3,652,425, 3-28-72, Cl. 252-194.
- Wilson, Harry L., to Cummins Engine Company, Inc. Variable compression ratio piston. 3,656,412, 4-18-72, Cl. 92-82.
- Wilson, Haydn: *See—*
Record, Robert George Hamilton; Wilson, Haydn; and Rudd, Derek Austen, 3,645,875.
- Wilson, Henry Allen. Antifriction ball retainer and spacer. 3,687,393, 8-29-72, Cl. 242-96.000.
- Wilson, Henry Allen. Manual computing device. 3,688,418, 9-5-72, Cl. 35-33.00s.
- Wilson, Henry Allen. Combined soap cake dish and container. 3,688,895, 9-5-72, Cl. 206-37.00r.
- Wilson, Henry H. Athletic shoe cleat. 3,656,245, 4-18-72, Cl. 36-67.
- Wilson, Robert Earl, 1/2 to Watson, Ralph C. Dual intensity signal lamp. 3,638,068, 1-25-72, Cl. 315-67.
- Wilson, Homer M., to Petrolite Corporation. Probe body for corrosion tests. 3,639,876, 2-1-72, Cl. 338-13.
- Wilson, Homer M., to Petrolite Corporation. Instrument for measuring conductance or capacitance of an electrical load during operation. 3,644,187, 2-22-72, Cl. 204-186.
- Wilson, Homer M., to Petrolite Corporation. Corrosion rate meter. 3,661,750, 5-9-72, Cl. 204-195.
- Wilson, Homer M., to Petrolite Corporation. Corrosion rate meter. 3,661,751, 5-9-72, Cl. 204-195.
- Wilson, Howard W. Coded articles. 3,632,995, 1-4-72, Cl. 235-61.12.
- Wilson, Ian C.: *See—*
Prange, Arthur J., Jr.; Wilson, Ian C.; and Lipton, Morris A., 3,689,669.
- Wilson, James A.: *See—*
Garabrant, Arthur R.; Beerbower, Alan; and Wilson, James A., 3,696,661.
- Wilson, James C., to Westinghouse Electric Corporation. Fuse device. 3,657,679, 4-18-72, Cl. 337-244.
- Wilson, James D., to Banner Metals, Inc. Collapsible stand. 3,659,816, 5-2-72, Cl. 248-97.
- Wilson, James D., to Banner Metals, Inc. Cooking rack-pan combination. 3,677,172, 7-18-72, Cl. 99-347.000.
- Wilson, James Dennis: *See—*
Hobbs, Charles F.; and Wilson, James Dennis, 3,655,690.
- Wilson, James F., to Bell & Howell Company. Apparatus for controlling a plurality of a light sources. 3,643,294, 2-22-72, Cl. 178-5.4.
- Wilson, James H.: *See—*
Priestley, Hill M.; and Wilson, James H., 3,660,497.
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- Wilson, James Mark. Illusory apparatus. 3,632,108, 1-4-72, Cl. 272-13.
- Wilson, James Mark. Magical display apparatus. 3,638,938, 2-1-72, Cl. 272-13.
- Wilson, James N.: *See—*
McKinnon, Murdoch G.; Wilson, James N.; and Besant, Robert W., 3,690,339.
- Wilson, James R.: *See—*
Moertel, George B.; and Wilson, James R., 3,672,008.
- Wilson, Jerry M., to Pillsbury Company, The. Method and apparatus for handling fowl. 3,704,688, 12-5-72, Cl. 119-22.000.
- Wilson, Joan L., to Goodyear Tire & Rubber Company, The. Amine salts of polyhydrosulfuric acids as shortstopping agents for emulsion polymerizations. 3,697,491, 10-10-72, Cl. 260-82.300.
- Wilson, Joe C., Jr.: *See—*
Parkin, William J.; and Wilson, Joe C., Jr., 3,700,905.
- Wilson, John E.: *See—*
MacLellan, James A.; and Wilson, John E., 3,685,654.
- Wilson, John F.: *See—*
Andrews, Harry N.; Patterson, John F.; and Wilson, John F., 3,647,622.
Gunning, William F.; Wilson, John F.; and Bertram, Charles C., 3,654,603.
- Wilson, John Francis: *See—*
Goodard, John; Wilson, John Francis; and Glew, Derek Aubrey, 3,696,014.
- Wilson, John Hart; deceased (by Egan, Evelyn Wilson; Sherrill, J. N., Jr.; and Hulver, Virginia Wilson; executors). Winching system for waterborne vessels. 3,636,905, 1-25-72, Cl. 114-43.5.
- Wilson, John I.; and Gary, Wardell, to Westinghouse Electric Corporation. Electrical apparatus including interlocking circuit for ground fault sensor. 3,697,810, 10-10-72, Cl. 317-18.00d.
- Wilson, John R.; and Shariff, Sadig A., to Westinghouse Electric Corporation. Switch-operating mechanism with particular application thereof to potential-transformer disconnecting assembly. 3,676,749, 7-11-72, Cl. 317-103.000.
- Wilson, John R.; and Niemoller, Arthur B., to Westinghouse Electric Corporation. Isolating switch. 3,700,840, 10-24-72, Cl. 200-48.00r.
- Wilson, John T.: *See—*
Hendry, Allen J.; and Wilson, John T., 3,634,729.
- Wilson, John T., to Westinghouse Electric Corporation. Circuit breaker including improved overcurrent protective device. 3,634,730, 1-11-72, Cl. 317-38.
- Wilson, John T.; and Engel, Joseph C., to Westinghouse Electric Corporation. Circuit breaker including improved ground fault protective device. 3,660,722, 5-2-72, Cl. 317-18.
- Wilson, John W., Jr.: *See—*
Boghossian, Malcolm P.; and Wilson, John W., Jr., 3,702,364.
- Wilson, Jonathan W.: *See—*
Desjardins, Stanley P.; Canfield, Alan R.; and Wilson, Jonathan W., 3,696,999.
- Wilson, Joseph, 1/2 to MacGreene, Joseph. Universal telescoping locking bar for vending machines. 3,665,736, 5-30-72, Cl. 70-78.
- Wilson, Joseph F., to Phillips Petroleum Company. Soil additives. 3,660,068, 5-2-72, Cl. 71-34.
- Wilson, Joseph F.; and Southworth, Wallace D., to Phillips Petroleum Company. Limestone granulation. 3,692,511, 9-19-72, Cl. 71-29.000.
- Wilson, Joseph G., to Shell Oil Company. Centrifugal separator vessel. 3,631,657, 1-4-72, Cl. 55-348.
- Wilson, Katherine W.: *See—*
Gamarra, Jose P.; Swidler, Ronald; and Wilson, Katherine W., 3,653,805.
Swidler, Ronald; and Wilson, Katherine W., 3,706,526.
- Wilson, Keith: *See—*
Thom, Gee Wing; and Wilson, Keith, 3,666,871.
- Wilson, Kenneth R.; and Kennedy, Robert M., to FMC Corporation. 2,3-Dihydro-3,3-dimethyl-5-benzofuranyl methylcarbamate. 3,655,696, 4-11-72, Cl. 260-346.2.
- Wilson, Kenneth R. A.: *See—*
Bonn, Clifford; and Wilson, Kenneth R. A., 3,655,152.
- Wilson Laboratories, Inc.: *See—*
Wilson, Harold W., 3,652,425.
- Wilson, Larry E.: *See—*
Johnson, Gary N.; and Wilson, Larry E., 3,703,681.
- Wilson, Laurence M.: *See—*
Applequist, Roy A.; and Wilson, Laurence M., 3,665,434.
- Wilson, Lee, Engineering Company, Inc.: *See—*
Ford, Joseph R., 3,703,276.
Hicks, Gerald W., 3,705,253.
- Wilson, Leon Ray. Convertible vehicle. 3,651,879, 3-28-72, Cl. 180-5.
- Wilson, Leroy E.: *See—*
Capell, A. Earl; and Wilson, Leroy E., 3,679,515.
- Wilson, Leslie Peter Stuart, to Gimda Inc. Trench cutter using endless cutter chain. 3,659,364, 5-2-72, Cl. 37-83.
- Wilson Lighting Limited: *See—*
Shepherd, Charles G., 3,654,849.
Shepherd, Charles G., 3,665,838.
- Wilson, Lois E., to Corning Glass Works. Strengthened photosensitive opal glass. 3,663,193, 5-16-72, Cl. 65-30.
- Wilson, Martin Norman; Smith, Peter Faraday; Walters, Colin Russell; Lewin, John David; Broomfield, Robert Walter; and Graham, Robert Leslie, to Science Research Council and Imperial Metal Industries (Kynoch) Limited. Superconducting electrical conductors. 3,662,093, 5-9-72, Cl. 174-128.000.
- Wilson, Matthew W., to Goodrich, B. F., Company, The. Process for adhering polyester tire cord to rubber. 3,663,268, 5-16-72, Cl. 117-76.00t.

- Wilson, Maywood L., to United States of America, National Aeronautics and Space Administration. Nondestructive spot test method for titanium and titanium alloys. 3,701,631, 10-31-72, Cl. 23-230.00.
- Wilson, Michael C. Multi-purpose articles of furniture. 3,672,720, 6-27-72, Cl. 297-118.000.
- Wilson, Milton A. Insecticide and repellent holder for attachment to garbage can lid. 3,661,326, 5-9-72, Cl. 239-60.
- Wilson, Oran W., to Texas Instruments, Incorporated. Photoconductive detector material. 3,674,712, 7-4-72, Cl. 252-501.000.
- Wilson, Paul I.: *See—*
Pope, George A.; Vaughan, George; and Wilson, Paul I., 3,632,681.
- Wilson, Paul O., to Baltimore Business Forming Inc. Continuous forms envelope converter system. 3,683,756, 8-15-72, Cl. 93-63.00.
- Wilson, Peter A.: *See—*
Rainer, Norman B.; and Wilson, Peter A., 3,674,722.
- Wilson, Peter C.; and Hughtart, Robert P. Apparatus for centrifugally removing liquid from a mixture. 3,642,139, 2-15-72, Cl. 210-213.
- Wilson Pharmaceutical & Chemical Corporation: *See—*
Johnsen, Vernon L.; and Burnett, Raymond S., 3,683,939.
- Wilson, Phillip M. Electrode holder for arc welding. 3,641,310, 2-8-72, Cl. 219-127.
- Wilson, Pryce. Prefabricated modular building. 3,660,952, 5-9-72, Cl. 52-81.
- Wilson, Quintus C., to United States of America, Air Force. Satellite communications system. 3,678,387, 7-18-72, Cl. 325-4.000.
- Wilson, Ray. Overhead cab crane control structure. 3,675,786, 7-11-72, Cl. 212-127.000.
- Wilson, Ray I.: *See—*
Marovich, Frank A.; and Wilson, Ray I., 3,655,546.
- Wilson, Raymond F.: *See—*
Hess, Howard V.; Wilson, Raymond F.; and Cole, Edward L., 3,652,405.
- Patel, Jitendra A.; Herbstman, Sheldon; Peck, Reese A.; and Wilson, Raymond F., 3,668,117.
- Peck, Reese A.; and Wilson, Raymond F., 3,671,421.
- Wilson, Raymond F.; Peck, Reese A.; and Gupta, Frank E., Jr., to Texaco Inc. Production of low sulfur fuel oil. 3,658,681, 4-25-72, Cl. 208-211.
- Wilson, Raymond F.; Peck, Reese A.; and Gupta, Frank E., Jr., to Texaco Inc. Conversion of heavy petroleum oils. 3,671,420, 6-20-72, Cl. 208-61.000.
- Wilson, Richard A.: *See—*
Evers, William J.; Katz, Ira; Wilson, Richard A.; and Theimer, Ernst T., 3,647,792.
- Katz, Ira; Wilson, Richard A.; and Giacino, Christopher, 3,681,088.
- Wilson, Richard C., to Aluminum Company of America. Ball bat construction. 3,703,290, 11-21-72, Cl. 273-72.50a.
- Wilson, Richard D.: *See—*
Pilipovich, Donald; and Wilson, Richard D., 3,697,394.
- Schack, Carl J.; and Wilson, Richard D., 3,649,222.
- Schack, Carl J.; Pilipovich, Donald; and Wilson, Richard D., 3,694,172.
- Wilson, Richard F.: *See—*
Allen, Clifford W.; and Wilson, Richard F., 3,653,476.
- Wilson, Richard John Hugh: *See—*
Lilly, Malcolm Douglas; Kay, Garth; Wilson, Richard John Hugh; and Sharp, Alister Kimball, 3,674,767.
- Wilson, Richard L.: *See—*
Mapother, Thomas C.; and Wilson, Richard L., 3,699,406.
- Wilson, Richard W., to Motorola, Inc. Crucible electron beam evaporation of aluminum. 3,649,734, 3-14-72, Cl. 13-31.
- Wilson, Richmond W.: *See—*
Ihrig, Allen C.; and Wilson, Richmond W., 3,645,712.
- Wilson, Robert C.: *See—*
Henderson, Larry D.; and Wilson, Robert C., 3,702,353.
- Wilson, Robert C., Jr., to Mobil Oil Corporation. Clinoptilolite blends with shape-selective catalyst. 3,640,905, 2-8-72, Cl. 252-455.
- Wilson, Robert G.: *See—*
Ennis, Robert M., Jr.; and Wilson, Robert G., 3,638,111.
- Wilson, Robert G. Self-service food warmer assembly. 3,632,968, 1-4-72, Cl. 219-214.
- Wilson, Robert G. Barbecue oven with a displaceable panel. 3,649,812, 3-14-72, Cl. 219-396.
- Wilson, Robert G. Barbecue machine edible carrier assembly. 3,706,272, 12-19-72, Cl. 99-340.000.
- Wilson, Robert M.: *See—*
Halopoff, William E.; and Wilson, Robert M., 3,637,076.
- Wilson, Robert M., to Dare Products, Incorporated. Reversibly mountable insulator. 3,652,780, 3-28-72, Cl. 174-45.
- Wilson, Robert M., to Dare Products, Incorporated. Self-supporting electric fence post insulator. 3,654,383, 4-4-72, Cl. 174-163.
- Wilson, Robert M., to Dare Products, Incorporated. Integral electrical insulator and supporting member for electrical wire fence. 3,689,686, 9-5-72, Cl. 174-166.00.
- Wilson, Robert W., to Boulogny, R. H., Inc. Tobacco bulk curing system with improved curing air flow rate control. 3,664,034, 5-23-72, Cl. 34-225.
- Wilson, Ronald C.: *See—*
Yeager, Charles C.; and Wilson, Ronald C., 3,689,449.
- Wilson, Ronald G. Sealing boot for an electrical receptacle. 3,684,819, 8-15-72, Cl. 174-53.000.
- Wilson, Ronald H.: *See—*
Schaefer, Donald L.; and Wilson, Ronald H., 3,664,895.
- Sigsbee, Raymond A.; and Wilson, Ronald H., 3,693,003.
- Wilson, Ronald Ian: *See—*
Vaneldik, Jan Frederik; Wilson, Ronald Ian; Kampjes, Gerrie Richard; and Lavender, William James, 3,705,478.
- Wilson, Roy A., to Burroughs Corporation. Buffer memory having read and write address comparison for indicating occupancy. 3,680,055, 7-25-72, Cl. 340-172.500.
- Wilson, Thomas: *See—*
Nelson, Leonard; and Wilson, Thomas, 3,676,120.
- Wilson, Thomas B., Jr. Bulk cargo safety barrier apparatus. 3,699,912, 10-24-72, Cl. 114-74.00.
- Wilson, Thomas L., to Chemetron Corporation. Method of and apparatus for controlling oscillator efficiency. 3,638,136, 1-25-72, Cl. 331-74.
- Wilson, Vernon Columbus. True self-heating composition. 3,702,302, 11-7-72, Cl. 252-70.000.
- Wilson, Walter: *See—*
Brown, Thomas D.; Rushforth, Michael; Dobinson, Bryan; Wilson, Walter; and Winterbottom, Kenneth, 3,645,781.
- Wilson, Walter A., to National Steel Corporation. Current transfer measurement along a linearly extended contact. 3,645,876, 2-29-72, Cl. 204-211.
- Wilson, Warren Thomas, to Gillette Company, The. Molding machine monitoring system. 3,642,401, 2-15-72, Cl. 425-137.
- Wilson, William B., to Shell Oil Company. Fluoride-containing crystalline aluminosilicates. 3,702,312, 11-7-72, Cl. 252-442.000.
- Wilson, William D.: *See—*
Vawter, Verne E.; Wilson, William D.; and Leake, Kyle W., 3,633,087.
- Wilson, William J.: *See—*
Heming, Elizabeth C.; Mathews, Warren W.; and Wilson, William J., 3,645,714.
- Wilson, William L.: *See—*
Hoekje, Howard H.; Strain, Franklin; and Wilson, William L., 3,642,442.
- Holden, Calvin B.; and Wilson, William L., 3,661,524.
- Sheppard, Robert S.; and Wilson, William L., 3,661,523.
- Wilson, Woodrow S., to Polytop Corporation. Initially sealed closures with sealing structures. 3,690,514, 9-12-72, Cl. 221-81.000.
- Wilson, Woodrow S., to Polytop Corporation. Closure with tear-off skirt. 3,707,240, 12-26-72, Cl. 215-41.000.
- Wilson, Zade. Ignition switching device. 3,639,772, 2-1-72, Cl. 307-10.
- Wilt, Marvin D., to Teledyne Industries, Inc. Intrusion detector responsive to change in dominant frequency. 3,686,658, 8-22-72, Cl. 340-261.000.
- Wilt, Mason S., to Phillips Petroleum Company. Treating polybutadiene. 3,668,162, 6-6-72, Cl. 260-27.
- Wilt, Robert E., to Sperry Rand Corporation. Radiometer gain control reference. 3,693,095, 9-19-72, Cl. 325-363.000.
- Witek, Inc.: *See—*
Burbank, John Emerson, III, 3,706,860.
- Wiltgen, Ervin J. Jig for working on watchbands. 3,689,056, 9-5-72, Cl. 269-10.000.
- Wilton Brass Company: *See—*
Wilton, Ralph P.; and Fitzpatrick, John J., 3,649,423.
- Wilton Corporation: *See—*
Kartasuk, Ray; and Gloridso, Ray, 3,669,440.
- Kartasuk, Raymond H.; and Smierciak, Walter, 3,675,916.
- Wilton Enterprises, Inc.: *See—*
Wilton, Norman M., 3,664,794.
- Wilton, Henry T., to American Optical Corporation. Dual magnification projection lens. 3,675,998, 7-11-72, Cl. 353-101.000.
- Wilton, Inga Elna Maria; and Bauren, Karl Lennart Emanuel, to Margarinbolaget AB. Pourable margarine. 3,682,656, 8-8-72, Cl. 99-122.000.
- Wilton, Norman M., to Wilton Enterprises, Inc. Multiple line decorating device. 3,664,794, 5-23-72, Cl. 425-192.000.
- Wilton, Ralph P.; and Fitzpatrick, John J., to Wilton Brass Company. Decorative food and beverage serving means. 3,649,423, 3-14-72, Cl. 161-5.
- Wilton, Raymond C., to Singer Company, The. Variable terrain model. 3,668,790, 6-13-72, Cl. 35-12.000.
- Wilton, Raymond Charles; and Astley, Peter James, to Miles Electronics Limited. Terrain model viewing device. 3,643,345, 2-22-72, Cl. 35-12.
- Wilton Company: *See—*
Stefenel, Rudy S., 3,701,036.
- Wiltse, Donald G., to Topper Corporation. Tip-up. 3,698,117, 10-17-72, Cl. 43-17.000.
- Wiltse, James: *See—*

- Frame, Wayne W.; Gustavson, Roy A.; and Wiltse, James, 3,704,526.
- Wiltse, James C.: *See—*
Bechtold, George W.; Derr, Vernon F.; and Wiltse, James C., 3,699,353.
- Wiltshire, Arthur J.; Ranallo, Henry U.; and Czumber, Frank E., to Structural Fibers, Inc. Method of making a fiber preform. 3,654,002, 4-4-72, Cl. 156-62.4.
- Wiltshire, Arthur J., to Structural Fibers, Inc. Method of inserting a flexible preform in a mold. 3,673,673, 7-4-72, Cl. 29-451.000.
- Wiltshire, Arthur J., to Structural Fibers, Inc. Sliding core means for the manufacture of fiber-reinforced plastic tanks. 3,674,394, 7-4-72, Cl. 425-112.000.
- Wiltshire, Arthur J., to Structural Fibers, Inc. Preform roller. 3,674,599, 7-4-72, Cl. 425-80.000.
- Wiltshire, Arthur J. Lamp construction. 3,683,175, 8-8-72, Cl. 240-108.00.
- Wiltshire, Arthur J., to Structural Fibers, Inc. Apparatus for forming fiber preforms. 3,687,587, 8-29-72, Cl. 18-26.00.
- Wiltshire Cutlery Company Proprietary Limited: *See—*
Jackson, Dennis B., 3,676,961.
- Wiltz, Robert E.; Schreiner, Edmund D.; and Winsor, Malcolm C., to Athena Systems, Inc. Impression sensing. 3,656,172, 4-11-72, Cl. 346-74.
- Wilwerding, Dennis J., to Honeywell Inc. Rapid recycle oscillator with cutoff and thermal protection. 3,679,991, 7-25-72, Cl. 331-62.000.
- Wilwerding, Dennis J., to Honeywell Inc. Correct exposure annunciator circuit. 3,706,911, 12-19-72, Cl. 315-158.000.
- Wilwood Inc.: *See—*
Woods, Warren L., 3,669,276.
- Wimer, Charles W.: *See—*
Schrade, Hans Christoph; Del Giudice, William F.; and Wimer, Charles W., 3,664,162.
- Wimmer, Hans, to West Company, The. Stopper for medicament flasks. 3,653,528, 4-4-72, Cl. 215-38.
- Wimmer, Helmut: *See—*
Ries, Karl; Wimmer, Helmut; and Biller, Theodor, 3,686,932.
- Wimmer, Theodor: *See—*
Hrach, Josef; and Wimmer, Theodor, 3,651,016.
- Hrach, Josef; and Wimmer, Theodor, 3,660,358.
- Wimpffen, George I.: *See—*
Dominick, George G.; Sciacero, Rinaldo; Wimpffen, George I.; and Kardos, Theodore L., 3,670,955.
- Dominick, George G.; Sciacero, Rinaldo; Weber, Leonard J.; Wimpffen, George I.; and Kardos, Theodore Louis, 3,693,870.
- Winar, Joseph J.: *See—*
Rogers, Frederick; Bradus, Robert; and Winar, Joseph J., 3,636,900.
- Winberg, Douglas F., to Subterranean Tools, Inc., mesne. Fixed shaft rotary seal assembly. 3,645,591, 2-29-72, Cl. 308-187.1.
- Winbrook China, Inc.: *See—*
Ehrlich, Josef, 3,659,994.
- Ehrlich, Josef, 3,663,681.
- Winburn, Charles F.: *See—*
Relly, Robert H.; Winburn, Charles F.; and Sun, Herbert K. Y., 3,657,764.
- Winburn, Lloyd Earl; and Cunningham, Jack B.; deceased (by Cunningham, Ethel Peggy; executrix). Method and apparatus for cleaning materials. 3,687,729, 8-29-72, Cl. 134-21.000.
- Wince, Vearl S., to Holophane Company, Inc. Veiling glare control with luminaires. 3,647,148, 3-7-72, Cl. 240-93.
- Winckhofer, Robert Charles; Weedon, Gene Clyde; and Collingwood, George Howard, to Allied Chemical Corporation. Process for shaping textile articles using fluid thermoforming techniques. 3,673,295, 6-27-72, Cl. 264-89.000.
- Wincierz, Peter: *See—*
Borgstedt, Hans-Ulrich; Ruhle, Manfred; and Wincierz, Peter, 3,677,723.
- Wincierz, Peter; Ruhle, Manfred; Reddemann, Bernhard H.; Schirra, Manfred; and Bohm, Horst Otto, to Metallgesellschaft Aktien-gesellschaft. Vanadium-base alloy. 3,635,700, 1-18-72, Cl. 75-134.
- Wincierz, Peter; Ruhle, Manfred; Kuchler, Heinz; Borgstedt, Hans Ulrich; and Bohm, Horst Otto. Vanadium-base alloy having a high creep-rupture strength and an improved resistance to corrosion. 3,695,866, 10-3-72, Cl. 75-134.00v.
- Winckhofer, Robert C.; and Weedon, Gene C., to Allied Chemical Corporation. Process for shaping fabric articles. 3,655,858, 4-11-72, Cl. 264-230.
- Wind, Harold. Single piece blister package. 3,645,384, 2-29-72, Cl. 206-45.34.
- Wind, Robert H.: *See—*
Peterson, Philip R.; Wind, Robert H.; and Mark, Douglas E., 3,680,923.
- Winald, Georges: *See—*
Giorgi, Jean Claude; and Winald, Georges, 3,680,621.
- Windebank, Robert W.: *See—*
Anderson, Wilmer C.; and Windebank, Robert W., 3,696,258.
- Cruger, Richard E.; Anderson, Wilmer C.; Earls, David; and Windebank, Robert W., 3,652,955.
- Windecker, Leo J., to Dow Chemical Company, The. Packaging method and apparatus. 3,666,850, 5-30-72, Cl. 264-45.
- Windecker, Leo J., to Windecker Research, Inc. Method of making an aircraft wing structure. 3,674,585, 7-4-72, Cl. 156-182.000.
- Windecker, Leo J. Curable epoxy resin/acrylic resin mixtures. 3,684,617, 8-15-72, Cl. 156-330.000.
- Windecker Research, Inc.: *See—*
Windecker, Leo J., 3,674,585.
- Windel, Hermann: *See—*
Koenig, Karl-Heinz; Steinbrunn, Gustav; Windel, Hermann; and Fischer, Adolf, 3,671,571.
- Windelbandt, Herbert: *See—*
Hartleib, Franz; and Windelbandt, Herbert, 3,659,394.
- Windemuth, Kenneth C. Boat transport device. 3,671,056, 6-20-72, Cl. 280-47.320.
- Winden, Johannes Bernardus Van der, to Stork-Amsterdam N.V. Device for filling advancing carriers with containers. 3,687,259, 8-29-72, Cl. 198-22.00.
- Winder, Gary C., to Air Guard Control of Canada Limited. Aerosol dispensing apparatus having disc-shaped solenoid-actuated plunger. 3,666,144, 5-30-72, Cl. 222-70.000.
- Winderl, Siegfried: *See—*
Fuerst, Ernst; Adam, Karl; Hoffmann, Herwig; Pilch, Kurt; Winderl, Siegfried; and Sanne, Walter, 3,649,627.
- Hoffman, Herwig; Jescher, Gerhard; Kuerzinger, Alfred; Schmidt, Erwin; Schoenleben, Willibald; Voges, Dieter; and Winderl, Siegfried, 3,691,205.
- Winders, Gordon R., to Diamond Power Specialty Corporation. Linear drive and support for vertically movable control rods. 3,651,742, 3-28-72, Cl. 92-30.
- Windham, Edward F., to General Safety Inc. Stressed chain fence. 3,661,360, 5-9-72, Cl. 256-37.
- Windholz, Thomas B.: *See—*
Jensen, Norman P.; Shen, Tsung-Ying; and Windholz, Thomas B., 3,655,901.
- Jensen, Norman P.; Shen, Tsung-Ying; and Windholz, Thomas B., 3,657,441.
- Windholz, Thomas B.; Patchett, Arthur A.; and Fried, John, to Merck & Co., Inc. 17 α -Substituted 13-alkyl-17 β -hydroxygona-4,9-dien-3-ones and 17 β -alkanoates. 3,642,841, 2-15-72, Cl. 260-397.4.
- Windings, Inc.: *See—*
Gerwig, Jeffrey C., 3,677,491.
- Gordon, William F.; and Newman, James W., 3,655,140.
- Gordon, William F.; and Newman, James W., 3,677,490.
- Hopko, Donald J., 3,666,191.
- Newman, James W.; Bavaro, Nicholas M.; and Wagner, William A., 3,666,200.
- Newman, James W., 3,689,005.
- Newman, James W.; and Zajac, Ronald E., 3,705,698.
- Windish, Willis E.: *See—*
Rohweder, Gerald D.; and Windish, Willis E., 3,669,232.
- Windley, William Thomas, to Du Pont de Nemours, E. I., and Company. Method and apparatus for monitoring and predicting the level of dyeability of yarn during its processing. 3,683,160, 8-8-72, Cl. 235-151.130.
- Windmoller & Holscher: *See—*
Achelpohl, Fritz, 3,636,828.
- Bosse, Frank, 3,668,046.
- Bosse, Frank, 3,672,562.
- Brinkmeier, Friedhelm; and Rucker, Hermann, 3,650,087.
- Brockmuller, Friedrich Franz; and Haupt, Karl, 3,637,093.
- Brockmuller, Friedrich Franz, 3,688,890.
- Brockmuller, Friedrich Franz, 3,703,951.
- Ender, Manfred, 3,665,551.
- Feldkamper, Richard; and Niemeier, Willy, 3,657,975.
- Feldkamper, Richard, 3,669,802.
- Feldkamper, Richard, 3,683,758.
- Genwerich, Max; Wagner, Siegfried; and Schwarzkopf, August, 3,688,974.
- Hedrich, Winfried; and Upmeier, Hartmut, 3,657,974.
- Hilgemann, Willi, 3,687,387.
- Kratzert, Friedrich; and Rucker, Hermann, 3,631,770.
- Muller, Reiner; and Achelpohl, Fritz, 3,680,770.
- Mundus, Friedhelm, 3,640,187.
- Mundus, Friedhelm, 3,650,449.
- Rochla, Kurt, 3,640,794.
- Schillerstrable, Friedhelm Mundus, 3,687,447.
- Schwarzkopf, August; and Mundus, Friedhelm, 3,631,771.
- Schwarzkopf, August; and Achelpohl, Fritz, 3,644,163.
- Schwarzkopf, August, 3,672,265.
- Schwarzkopf, August, 3,693,867.
- Stork, Willi, 3,643,552.
- Upmeier, Hartmut, 3,632,265.
- Upmeier, Hartmut, 3,647,339.
- Upmeier, Hartmut, 3,682,443.
- Upmeier, Hartmut, 3,689,192.
- Wesselmann, Heinz; and Brinkmeier, Friedhelm, 3,660,204.
- Windsor Door Co., Inc.: *See—*
Webb, Cleitus E., Jr.; and Johnson, Royce F., 3,672,098.

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Wognum, James N.; Simich, Emil; and Winkler, Alvin L., 3,672,436.
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St. George, Alfonso; and Winkler, Floyd John, 3,643,020.
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Holan, Leif A., 3,690,356.
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Brown, Harold J.; and Winpisinger, Joseph L., 3,648,149.
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Carlson, Arthur E., 3,659,183.
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Watson, Frederick D.; and Winslow, Joseph D., Jr., 3,649,500.
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Hamilton, William H.; and Winsor, Jack O., 3,703,314.
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Hollis, Samuel D.; and Winston, Philip E., Jr., 3,692,844.
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Wepfer, George R.; and Winstrom, Bertil G., 3,684,855.
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Murray, Edward J.; and Winstrom, Leon O., 3,671,588.
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Ferber, Martin Emile; and Wintemberger, Michel Georges, 3,671,229.
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Schindler, Herbert; and Winter, Gerhard, 3,654,651.
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Phillips, James W.; and Winter, James R., 3,689,719.
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Garvey, Francis J.; and Winterbottom, Bruce, 3,699,729.
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Brown, Thomas D.; Rushforth, Michael; Dobinson, Bryan; Wilson, Walter; and Winterbottom, Kenneth, 3,645,781.
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Grebe, Konrad; and Winterhoff, Gudrun, 3,649,078.
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- Winters, Thomas B., to Westinghouse Electric Corporation. Water delivery arrangement for automatic ice maker. 3,632,049, 1-4-72, Cl. 239-590.
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Schiedermaier, Richard; Wintersberger, Karl; and Wunsch, Gerd, 3,656,916.
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Marcio, Roger A.; and Winton, Orrin J., 3,680,371.
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- Wintzer, Manfred, to Siemens Aktiengesellschaft. Degassing arrangement for electron beam tube including an M/C dispenser cathode. 3,688,150, 8-29-72, Cl. 313-178.000.
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Nelson, Leroy E., 3,686,721.
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Hahn, Erwin; and Wippel, Hans Guenter, 3,642,767.
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Cassanelli, Robert R.; Wauters, Ronald P.; Wirchansky, Anastasia C.; and Wyss, Clement R., 3,702,254.
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York, Charles Herbert-Greer, 3,672,022.
- Wire Sales Company: *See*—
Malme, Elmer K., 3,655,994.
- Malme, Elmer K., 3,655,995.
- Malme, Elmer K., 3,657,648.
- Silby, Harry, 3,676,164.
- Wire Specialty Manufacturing Inc.: *See*—
Lindgren, Edwin A., 3,650,441.
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Krafft, Frederic B., 3,686,908.
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Winsche, Warren E.; Wirsing, Edward, Jr.; and Wiswall, Richard H., Jr., 3,692,472.
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Zmyslowski, Wojciech; Decowska, Zofia; Gawronski, Ryszard; Borejko, Zdzislaw; Decowski, Marek; and Wirski, Janusz, 3,657,646.
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Davies, James M.; Hackmann, Larry G.; Peterson, Robert A.; Smith, Roger M.; and Wirt, Leon A., 3,659,654.
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- Wirth, David G., Jr.: *See*—
Rettew, Richard R.; Wirth, David G., Jr.; and Glemza, Rimantas, 3,702,882.
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Rettew, Richard Raymond; Wirth, David Griffith, Jr.; and Levy, Newton, Jr., 3,655,330.
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Poehler, Guenter; Suter, Hubert; Wirth, Friedrich; and Walter, Johann Heinrich, 3,686,229.
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Giampalmi, John J., Jr.; Telegdy, Istvan K.; and Wirth, Manfred, 3,689,211.
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Schellhammer, Carl-Wolfgang; Dorlars, Alfons; and Wirth, Wolf-Dieter, 3,663,560.
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Borer, Herbert W.; Cryder, John R.; and Wirtz, Edward A., 3,670,628.
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Lussow, Robert O.; and Wirtz, Louis H., 3,639,143.
- Wirtz, Peter; Jacobowsky, Armin; Mittler, Werner; and Gerhardt, Wilfried, to Knapsack Aktiengesellschaft. Process for reducing the concentration of 2-dichlorobutadiene-(1,3) in 1,2-dichloroethane recovered in the incomplete thermal cracking into vinyl chloride. 3,696,015, 10-3-72, Cl. 204-163.00r.
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Joos, Alfred; and Wirtz, Walter, 3,657,261.
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Graf, Felix; and Wirtz, Armin, 3,632,947.
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Wakeman, Alden H., 3,645,751.
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De Luca, Hector F.; and Sunde, Milton L., 3,639,596.
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- De Luca, Hector F.; and Suda, Tatsuo, 3,702,810.
- Evenson, Merle A., 3,647,624.
- Heine, Richard W.; and Loper, Carl R., Jr., 3,663,212.
- Langer, Stanley H., 3,666,792.
- Reitan, Daniel K.; and Nagavarapu, Ramarao, 3,697,773.
- Richardson, Thomas; and Hustad, Gerald O., 3,658,731.
- Sih, Charles J., 3,671,397.
- Walters, John P.; and Bruhns, Thomas V., 3,653,766.
- Wisconsin Centrifugal, Inc.: *See*—
Krick, David M.; Koltz, Lawrence D.; and Williams, Warren C., 3,670,802.
- Wisconsin Foundry and Machine Company: *See*—
Barlow, Everett P., 3,667,621.
- Steiro, Harry, 3,667,620.
- Wisconsin Shoe Company: *See*—
Hibbard, William M.; and Reeder, Douglas L., Jr., 3,641,687.
- Wisdom, Gerald F.: *See*—
Fisher, James E.; Mitchell, Jack L.; and Wisdom, Gerald F., 3,693,918.
- Wisdom, Hamilton L. Climbing aid. 3,658,151, 4-25-72, Cl. 182-135.
- Wisdom, William H.: *See*—
Thompson, John A.; and Wisdom, William H., 3,681,006.
- Wisdon, Norvell E., Jr., to Norton Company. High throw power electrodeposition process. 3,699,015, 10-17-72, Cl. 204-35.00r.
- Wise, Albert W.: *See*—

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- Wise, Boyd A., to General Dynamics Corporation. Impact tools. 3,662,843, 5-16-72, Cl. 173-131.000.
- Wise, Cecil S., to Fiber Controls Corporation. Multiple source material distributing system. 3,649,082, 3-14-72, Cl. 302-27.
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- Wise, David F.; Tyndall, R. B.; and Jones, Donald E., to Vann Industries, Inc. Tobacco topping apparatus. 3,701,240, 10-31-72, Cl. 56-63.000.
- Wise, Eugene H.; and Blumenkranz, James J., to Sloane, R. & G., Manufacturing Company, Inc. Fire isolation and insulating apparatus. 3,678,634, 7-25-72, Cl. 52-1.000.
- Wise, Eugene H., to Sloane, R. & G., Manufacturing Company, Inc. Tapping tee. 3,692,044, 9-19-72, Cl. 137-318.000.
- Wise, George G. Outboard motor theft alarm having switch actuated by motor clamp. 3,696,371, 10-3-72, Cl. 340-275.00r.
- Wise, George L.; and Russ, Mark A., to Borg-Warner Corporation. Spring clip retainer. 3,703,305, 11-21-72, Cl. 287-52.050.
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Turner, James B.; and Wise, Harold L., 3,645,131.
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- Wise, Harold L.; Walters, Arley; and Cook, Ray G., to Shell Oil Company. Gas cleaning conduit. 3,695,844, 10-3-72, Cl. 23-232.00c.
- Wise, Henry; and Holbrook, Larry L., to Stanford Research Institute. Filter for reducing the level of carbon monoxide in tobacco smoke. 3,658,069, 4-25-72, Cl. 131-70.700.
- Wise, Henry M., Jr.: See—
Osthagen, Sven M.; and Wise, Henry M., Jr., 3,642,004.
- Wise, John J.: See—
Caesar, Philip D.; Haag, Werner O.; and Wise, John J., 3,647,916.
- Wise, John K., to United States Gypsum Company. Method of mounting furring channel. 3,657,853, 4-25-72, Cl. 52-741.
- Wise, Joseph Agusta, to AMP Incorporated. Electrical connector assembly and method of making same. 3,634,817, 1-11-72, Cl. 339-213.
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Cotabish, Harry N.; Wise, Layton A.; and Buban, Elmer E., 3,655,346.
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- Wise, Raymond G., to Freeze Dry Products Inc. Algin sponge and process therefor. 3,653,383, 4-4-72, Cl. 128-296.
- Wise, Robert A., to Westinghouse Electric Corporation. Hair roller with range temperature indicator. 3,658,071, 4-25-72, Cl. 132-33.
- Wise, Robert A., to Westinghouse Electric Corporation. Electric cooker control. 3,692,979, 9-19-72, Cl. 219-493.000.
- Wise, Russell E.: See—
Antonetti, Vincent W.; Maling, George C., Jr.; Pascuzzo, Albert L.; and Wise, Russell E., 3,688,867.
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- Wisebaker, Robert E.: See—
McClellan, Herbert L.; Dom, Harry A.; and Wisebaker, Robert E., 3,685,070.
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- Wiselius, Samuel I., to Koninklijke Machinefabriek Stork N.V. Centrifugal pump. 3,644,056, 2-22-72, Cl. 415-215.
- Wisely, Kenneth, 45% to Yelvington, John J. Rotary multiple contact periodic switch for internal combustion engine with improved distributor shaft contact collar. 3,647,995, 3-7-72, Cl. 200-24.
- Wiseman, John A.: See—
Shuttleworth, James J.; Sprague, Carlton S.; Shuttleworth, Howard P.; Zimmerman, Charles E.; and Wiseman, John A., 3,672,117.
- Wiseman, John A., to Shuttleworth Machinery Corporation. Box flap opener. 3,662,516, 5-16-72, Cl. 53-76.
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- Wisemenger, Edith: See—
Beschke, Helmut; Pfeiffer, Hans; Ferch, Horst; and Wisemenger, Edith, 3,656,981.
- Wiser, Joseph E.; and Gerhardt, Peter H., to Mallory, P. R., & Co., Inc. Means connecting a synchronous motor to a gear train housing. 3,676,725, 7-11-72, Cl. 310-89.000.
- Wishart, Andrew: See—
Mitchell, Colin Campbell, 3,688,726.
- Wisher, David S.: See—
Jacobs, Paul H.; Peay, Robert L.; and Wisherd, David S., 3,662,294.
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- Wisintainer, Edward R.: See—
Randles, Paul R.; and Wisintainer, Edward R., 3,650,324.
- Wiskott, Erik: See—
Rehberg, Rolf; and Wiskott, Erik, 3,695,823.
- Wisleder, Robert W.: See—
Cushman, Glenn F.; Prasad, Brijeshwari; and Wisleder, Robert W., 3,641,563.
- Wismer, Marco: See—
Doerge, Herman P.; and Wismer, Marco, 3,637,542.
Doerge, Herman P.; and Wismer, Marco, 3,639,307.
Doerge, Herman P.; and Wismer, Marco, 3,647,724.
- Parker, Gordon M.; Wismer, Marco; and Hahn, Ernest A., 3,679,731.
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- Wisner, George R.: See—
McLafferty, George H.; and Wisner, George R., 3,637,296.
- Wisner, William R.: See—
Bustaan, Daniel J.; Gossie, Mijo A.; Sundstrom, Roy N.; and Wisner, William R., 3,690,527.
- Wisniowicz, Leonard F.: See—
Wright, George C.; and Wisniowicz, Leonard F., 3,662,088.
- Wison, Donald A.: See—
Padgett, William J.; and Wison, Donald A., 3,701,103.
- Wisotsky, Max J.: See—
McDougall, Lee A.; Rossi, Albert; and Wisotsky, Max J., 3,693,720.
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Duffy, William, 3,678,580.
Duffy, William; and Students, John, 3,683,497.
Wiss, Richard R., 3,672,053.
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Free, Maurice G.; and Wisseman, Leo L., 3,679,963.
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Trieschmann, Hans-Georg; Wisseroth, Karl; Scholl, Richard; and Herbeck, Rudolf, 3,639,377.
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Siegman, Wolfgang; and Wissinger, Hans, 3,650,430.
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Osterhagen, Gerhard; Krebsbach, Friedhelm; and Wissinger, Waldemar, 3,632,732.
Osterhagen, Gerhard; Krebsbach, Friedhelm; and Wissinger, Waldemar, 3,635,505.
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Plotkin, Stanley A., 3,660,565.
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Armbrust, Herbert; Sturm, Hans Juergen; Engelbach, Heinz; Wistuba, Hermann; Stoessel, Armin; and Krabetz, Richard, 3,699,134.
- Wiswall, Richard H., Jr.: See—
Winsche, Warren E.; Wirsing, Edward, Jr.; and Wiswall, Richard H., Jr., 3,692,472.
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Clack, Peter Joseph; Wiswell, James David; and Clemens, Anton Hubert, 3,677,730.
- Wiszczo, Jan: See—
Paszke, Jan; Pstrocki, Henry; Ploszajski, Janusz; Lachman, Rudolf; Stanislaw, Lansy; and Wiszczo, Jan, 3,697,051.
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Bluestein, Bernard R.; and Solomon, Jack M., 3,647,795.
Karg, Gerhart, 3,639,235.
- Witco Chemical Corporation: See—
Barker, Graham, 3,668,136.
Barker, Graham; and Campbell, Herman W., 3,703,481.
Benson, Albert; and Karg, Gerhart, 3,634,284.
Benson, Albert; and Mausner, Marvin, 3,681,443.
Bernstein, Carl, 3,645,975.
Chisholm, Daniel R.; Solomon, Jack M.; and Isbitsky, Bernard, 3,641,022.
Clark, John R.; and Bluestein, Claire, 3,654,323.
Davis, David S.; and Kim, Young K., 3,703,556.
Foley, John T., 3,654,177.
Karg, Gerhart, 3,634,268.
Karg, Gerhart, 3,652,419.
Longley, Kermit D.; and Bernstein, Carl, 3,682,845.
Mausner, Marvin L.; and Wiesenfeld, Arnold, 3,697,451.
Mayfield, Prentiss B., 3,649,589.
Muller, Thomas C.; Nelson, Lawrence B.; and Bluestein, Bernard R., 3,657,347.
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McCardell, Willard B., Jr.; Bissland, John D.; and Witek, Roman J., Jr., 3,686,619.
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- Withem, Donald D., to Krost, Eleanor Burditt. Electrical ignition system. 3,677,255, 7-18-72, Cl. 123-148.00c.
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Groszek, Aleksander Jerzy; and Witheridge, Rodney Ernest, 3,666,689.
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- Withers, James C., to General Technologies Corporation. Process of plating by pyrolytic deposition. 3,702,780, 11-14-72, Cl. 117-104.00r.
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Miller, Frank H., Jr.; and Witherspoon, David L., 3,670,906.
- Witherspoon, Harry, to Rolls-Royce Limited. Process for mounting a workpiece for machining. 3,672,032, 6-27-72, Cl. 29-424.000.
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Ballar, Ernst O.; Crandell, Melvin G.; Pease, Donald L.; and Witinski, Francis D., 3,674,363.
Kuhl, James E.; and Witinski, Francis D., 3,635,373.
- Witkin, Donald E., to National Forge Company. Yoke type isostatic press. 3,650,657, 3-21-72, Cl. 425-389.
- Witkin, Donald E., to National Forge Company. Variable clearance thread closure. 3,664,540, 5-23-72, Cl. 220-39.
- Witkin, Donald E., to National Forge Company. Undercut thread closure. 3,669,301, 6-13-72, Cl. 220-39.
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Braun, Samuel; Witkoff, Robert; and Northrop, George, 3,650,382.
- Witkor, Dominik M., to Automatic Switch Company. Bypass and isolation switch. 3,697,709, 10-10-72, Cl. 200-48.00r.
- Witkowski, Henry J. Apparatus for coating building wall with foam. 3,705,777, 12-12-72, Cl. 425-110.000.
- Witkowski, Robert E.: See—
Hickam, William M.; and Witkowski, Robert E., 3,650,920.
Hickam, William M.; and Witkowski, Robert E., 3,650,934.
- Witmore, Ronald Kirk: See—
Braun, Edwin Julius; Maxon, Rodney Robert; Meise, Henry August, Jr.; Taylor, George William; and Witmore, Ronald Kirk, 3,679,834.
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- Witsch, Heinz-Guenter: See—
Bayew, Dimiter; Daeuble, Manfred; Kaufmann, Otto; Ludsteck, Dieter; Pfitzner, Helmut; and Witsch, Heinz-Guenter, 3,704,086.
- Kaufman, Otto; Daeuble, Manfred; Witsch, Heinz-Guenter; Luebeck, Enno; and Bayew, Dimiter, 3,671,176.
- Witschard, Gilbert, to Hooker Chemical Corporation. Substrate having metal phosphorus or metal phosphorus sulfur compound on surface and cured siccative coating composition thereon. 3,650,807, 3-21-72, Cl. 117-69.
- Witschel, Klaus; and Schone, Dieter, to Mannesmann Leichtbau, GmbH. Support structure of frame work construction. 3,656,269, 4-18-72, Cl. 52-638.000.
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- Witt, August F.: See—
Platakis, Nicholas S.; Gatos, Harry C.; and Witt, August F., 3,689,242.
- Witt, Boston E.; and Bennett, Homer A., to Bacti, Products, Inc. Biochemical process. 3,634,226, 1-11-72, Cl. 210-11.
- Witt, Donald R.: See—
Cagle, Glen E.; and Witt, Donald R., 3,663,176.
- Witt, Edward, to Standard Brands Chemical Industries, Inc. Flocculation of particles dispersed in aqueous media and flocculants used therein. 3,632,507, 1-4-72, Cl. 210-54.
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- Witt, Enrique R.: See—
Koh, Lita L.; and Witt, Enrique R., 3,639,450.
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- Witt, Enrique R.; and Blay, Jorge A., to Celanese Corporation. Thermal purification of terephthalic acid using iodine or bromine catalysts. 3,644,507, 2-22-72, Cl. 260-525.
- Witt, Enrique R.; and Blay, Jorge A., to Celanese Corporation. Purification of terephthalic acid. 3,654,350, 4-4-72, Cl. 260-525.
- Witt, Enrique R., to Celanese Corporation. Purification of aromatic polycarboxylic acids by recrystallization. 3,654,351, 4-4-72, Cl. 260-525.
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- Witt, Fenwick L. Spring motor mechanism. 3,659,676, 5-2-72, Cl. 185-40.00r.
- Witt, George L., to My-T-Veyor Corporation. Trolley conveyor system and dispatch station. 3,653,488, 4-4-72, Cl. 198-38.
- Witt, Harro; Holtschmidt, Hans; and Muller, Erwin, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of substituted diaryl ethers. 3,642,866, 2-15-72, Cl. 260-473.
- Witt, Harry S.: See—
Chin, James; Witt, Harry S.; and Schwartz, Eli, 3,700,481.
- Witt, Henry J.: See—
Stancioff, Dimitri J.; and Witt, Henry J., 3,663,284.
- Witt, Jack C. Modular furniture. 3,632,170, 1-4-72, Cl. 297-445.
- Witt, Jerry L.: See—
Miller, Robert; Witt, Jerry L.; and Tidmore, Mabry L., 3,707,178.
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- Witte, Don C.: See—
- Oggsbury, Charles S.; and Witte, Don C., 3,648,404.
- Witte, Don C. Toy building set and disc-like units therefor. 3,654,726, 4-11-72, Cl. 46-16.
- Witte, Gunter, to Gebr. Dingerkus. Apparatus for mounting handles to pots and the like. 3,691,605, 9-19-72, Cl. 29-200.00j.
- Witte, Horst, to Kalle Aktiengesellschaft. Apparatus for cutting a web of material. 3,665,796, 5-30-72, Cl. 83-156.
- Witte, Johan F.; and De Wit, Jacobus J. Manufacture of ammonium sulfate from gypsum. 3,687,620, 8-29-72, Cl. 423-548.00n.
- Witte, John R. Trigger mechanism for inflatable life preservers and the like. 3,682,354, 8-72, Cl. 222-3.000.
- Witte, Josef: See—
- Pampus, Gottfried; and Witte, Josef, 3,632,849.
- Pampus, Gottfried; Witte, Josef; and Marwede, Gunter, 3,707,520.
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- Jones, Howard S., Jr.; Witte, Joseph J.; and Morlock, Harry K., 3,680,130.
- Witte, Robert S.; Frantz, Lee M.; and Peters, Eugene R., to TRW Inc. Laser cold cathode arrangement. 3,688,217, 8-29-72, Cl. 331-94.500.
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- Wittekind, Raymond R.: See—
- Meltzer, Robert I.; and Wittekind, Raymond R., 3,671,544.
- Wittekind, Raymond R.; and Shavel, John, Jr., to Warner-Lambert Company. 2-Amino-1-(2-imidazolin-2-yl)-2-imidazolines. 3,666,767, 5-30-72, Cl. 260-296.00r.
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- Wittmer, William C. Safety closure. 3,703,975, 11-28-72, Cl. 215-9.000.
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- Wittenberger, Wallace Wayne, to Computer Management Consultants, Inc. Data collecting and transmitting system and apparatus. 3,651,267, 3-21-72, Cl. 179-2.
- Wittenbrook, Lawrence S.: See—
- Timmons, Richard J.; and Wittenbrook, Lawrence S., 3,658,901.
- Wietelmann, Ronald E.; and Wittenbrook, Lawrence S., 3,637,366.
- Wittenwyler, Clifford V., to Shell Oil Company. Process for the production of bonded particles as a material of construction. 3,705,872, 12-12-72, Cl. 260-37.0ep.
- Witter, Richard L.: See—
- Okazaki, William; Purchase, H. Graham; and Witter, Richard L., 3,642,574.
- Witterholt, Vincent G.; and Dalgarn, John W., to Du Pont de Nemours, E. I., and Company. Preparation of copper formazyl dyes. 3,663,525, 5-16-72, Cl. 260-149.
- Wittes, James M.; and Bonanno, Peter J., to Becton, Dickinson and Company. Surgical drainage apparatus for bladder. 3,680,562, 8-1-72, Cl. 128-347.000.
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- Witting, Harald L., to General Electric Company. Electric lamp apparatus having diffusion barrier. 3,683,226, 8-8-72, Cl. 313-109.000.
- Wittke, Paul, to Condux-Werk Herbert A. Merges KG. Comminutor. 3,700,106, 10-24-72, Cl. 210-174.000.
- Wittkowski, Johannes: See—
- Hassler, Otto; and Wittkowski, Johannes, 3,662,124.
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- Wittler, Hans; and Holtkamp, Heinz-Otto, 3,676,908.
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- Edwards, Webster H.; Miller, Earl A.; Scully, Thomas A.; Vining, Roy H.; and Wittman, David, 3,686,023.
- Wittman, John Philip, to International Telephone and Telegraph Corporation. Subscriber superimposed signaling unit. 3,662,116, 5-9-72, Cl. 179-17.
- Wittman, Marcel: See—
- Wittman, Samuel; and Wittman, Marcel, 3,660,839.
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- Wittmann, Erwin Johann: See—
- Harwood, Leopold Albert; and Wittmann, Erwin Johann, 3,699,257.
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- Wittmann, Georg: See—
- Janson, Alfons; Poschmann, Franz; and Wittmann, Georg, 3,653,804.
- Wittmann, Gunther: See—
- Bauer, Kurt; Wittmann, Gunther; and Mussgay, Manfred, 3,636,196.
- Wittmann, Gunther; Bauer, Kurt; and Mussgay, Manfred, to Farbenfabriken Bayer Aktiengesellschaft. Diethylaminoethyl dextran as an adjuvant for vaccines for active immunization. 3,632,741, 1-4-72, Cl. 424-89.
- Wittmann, Otto: See—
- Sander, Bruno; Sperber, Heinrich; Pommer, Ernst-Heinrich; Clad, Werner Helmut; and Wittmann, Otto, 3,651,006.
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- Wittner, Rudolf. Device for measuring repetitive identical time intervals. 3,662,538, 5-16-72, Cl. 58-130.00r.
- Wittreich, Paul E.: See—
- Wagner, Arthur F.; Wittreich, Paul E.; and Sarett, Lewis H., 3,666,755.
- Wittren, Richard Arthur; Meysenburg, Raymond Richard; and Tweedy, Robert Hugh, to Deere & Company. Zero-leakage spool valve. 3,667,504, 6-6-72, Cl. 137-625.690.
- Wittrowsky, Gunter: See—
- Gramer, Gottfried; and Wittrowsky, Gunter, 3,666,626.
- Wittwer, Arnold: See—
- Wegerich, Anton; Arend, Wolfgang; Himmelhan, Emil; and Wittwer, Arnold, 3,657,315.
- Witucki, Edward F.: See—
- Frankel, Milton B.; Witucki, Edward F.; and Rushworth, Ronald, 3,636,060.
- Frankel, Milton B.; Warner, Michael G.; and Witucki, Edward F., 3,642,830.
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- Shen, Tsung-Ying; Walford, Gordon L.; Witzel, Bruce E.; and Jones, Howard, 3,632,760.
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- Shen, Tsung-Ying; Witzel, Bruce E.; and Walford, Gordon L., 3,641,134.
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- Witzel, Frank, to Beech-Nut Inc. Carbonated candy. 3,677,770, 7-18-72, Cl. 99-134.00r.
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- Witzke, Frederick W., to Bendix Corporation, The. Sling roundness gage. 3,648,377, 3-14-72, Cl. 33-174.
- Witzky, Julius E. Pumpless stratified charge gas engine. 3,703,886, 11-28-72, Cl. 123-32.0st.
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- Connor, Augustus S., 3,677,412.
- Humbert, Kingsley E., Jr., 3,662,893.
- Wixon, Harold E.: See—
- Sundby, Bjorn; Kenney, Edward J.; and Wixon, Harold E., 3,700,607.
- Wixon, Harold Eugene: See—
- Gerecht, John Fred; and Wixon, Harold Eugene, 3,676,341.
- Grand, Paul Sheldon; and Wixon, Harold Eugene, 3,703,480.
- Sundby, Bjorn; and Wixon, Harold Eugene, 3,697,423.
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- Wixson, James D. Distillation method having counterflow heat exchange with condensate. 3,637,465, 1-25-72, Cl. 203-11.
- Wize, Gary A.: See—
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- Wize, Gary A., to General Motors Corporation. Vehicle passive occupant restraining belt arrangement. 3,700,258, 10-24-72, Cl. 280-150.0sb.
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- Wlodek, Stanley Thaddeus, to Jones & Laughlin Steel Corporation. Vapor deposited zinc coated metallic substrates having organic coatings. 3,674,445, 7-4-72, Cl. 29-195.000.
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- Uhtenwoldt, Herbert R.; Grotewold, William H.; and Wlodyka, Edmund E., 3,657,843.
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- Bolt, Richard Robert; and Wobbe, Delbert Edmond, 3,670,543.
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- Woehler, Harold L., to Fedders Corporation. Gentle wash mechanism for a dishwasher. 3,702,680, 11-14-72, Cl. 239-256.000.
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- Woelk, Robert J., to Besser Company. Pallet clamp. 3,660,004, 5-2-72, Cl. 25-41.
- Woellhaf, Josef: See—
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- Wogerbauer, Alfred, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Sheet pile section. 3,703,085, 11-21-72, Cl. 61-60.000.
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- Wohead, Michael J. Non-snagging fishing device. 3,670,447, 6-20-72, Cl. 43-43.140.
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- Richard, Yvon L.; and Wojchowski, Charles, 3,698,273.
- Wojciechowski, Walter J.: *See—*
- Sylvester, Peter A.; and Wojciechowski, Walter J., 3,701,316.
- Wojcik, David S.: *See—*
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- Wolf, Arnold M.; and Richter, John G., to Electrospac Corporation. Telephone transaction system. 3,652,795, 3-28-72, Cl. 179-2.
- Wolf, Barnet, to Franco Manufacturing Co., Inc. Towel-pillow combination. 3,689,947, 9-12-72, Cl. 5-344.000.
- Wolf, Bern E. Snap-in rack for cassettes. 3,635,350, 1-18-72, Cl. 211-40.
- Wolf, Carol: *See—*
- Moisescu, Gheorghe; Stoica, Valer; Wolf, Carol; and Spataru, Nicolae, 3,640,206.
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- Wolf, David. Game method involving competitive arranging of grouped pieces into polyhedral form. 3,672,681, 6-27-72, Cl. 273-157.00r.
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- Wolf, Donald G., to Hoerner-Waldorf Corporation. Asparagus container. 3,695,505, 10-3-72, Cl. 229-37.00r.
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- Wolf, Edgar, to Digitronics Corporation. Serial record medium reader. 3,632,992, 1-4-72, Cl. 235-61.11.
- Wolf, Edgar, to Redactron Corporation. Reed switch and magnetic over-center device therefor. 3,673,527, 6-27-72, Cl. 335-207.000.
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- Wolf, Emanuel, to Ironflex AG. Device for attaching a thermoplastic foil to a supporting structure. 3,671,371, 6-20-72, Cl. 161-43.000.
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- Barteleit, Ulrich; Regenscheit, Walter; Schroder, Helmut; and Wolf, Erich, 3,643,585.
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- Wolf, Gerhard, to Siemens Aktiengesellschaft. Carry transfer circuit for a parallel binary adder. 3,681,584, 8-1-72, Cl. 235-175.000.
- Wolf, Gerhard D.; Blankenstein, Gunter; and Nischk, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. High molecular weight aromatic polyamides having an affinity for basic dyes. 3,676,525, 7-11-72, Cl. 260-857.000.
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- Merten, Rudolf; and Wolf, Gerhard Dieter, 3,684,774.
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- Schwerdhofer, Hans Joachim; and Wolf, Gerhard Max, 3,701,546.
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- Wolf, Heinz K., to New Britain Machine Company, The. Machine tool. 3,651,739, 3-28-72, Cl. 90-11.
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- Wolf, Irving William; and Woody, Roberta A., to Ampex Corporation. Electro deposited magnetic films. 3,634,209, 1-11-72, Cl. 204-40.
- Wolf, Jack D.: *See—*
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- Wolf, Jesse D., to Trans Horizons, Inc. Tripod-mounted scanning camera. 3,635,140, 1-18-72, Cl. 95-15.
- Wolf, Jesse David, to Trans-Horizons, Inc. Photographic scan camera using a pivoted mirror. 3,640,199, 2-8-72, Cl. 95-15.
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- Wolf, John E., to Superior Continental Corporation. Magnetic detection apparatus. 3,665,511, 5-23-72, Cl. 340-258.00d.
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- Gilewski, Heinz; and Wolf, Jurgen, 3,704,694.
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- Beesch, Otto; Wolf, Karl; and Ziegler, Bodo, 3,689,195.
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- Raue, Roderich; and Wolf, Karlheinz, 3,696,089.
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- Wolf, Lloyd J. Vehicle brake. 3,677,375, 7-18-72, Cl. 188-138.000.
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- Bogash, Richard; Wolf, Milton; and Sellstedt, John H., 3,669,980.
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- Wolf, Richard. Balancing device. 3,691,870, 9-19-72, Cl. 74-573.000.
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- Wolf, Stanley, to Docent Corporation. Responsive answer system. 3,701,205, 10-31-72, Cl. 35-9.00g.
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- Silverstone, Gerald Alfred, 3,661,956.
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- Wolf, Walter C., to Thermadyne International, Ltd. Glare shield assembly. 3,704,844, 12-5-72, Cl. 244-121.000.
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- Wolf, Wilfred L. Multilayered color film of increased sharpness. 3,658,536, 4-25-72, Cl. 96-69.000.
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- Fiala, Ernst, 3,704,032.
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- Wolfe, Gregory John. Vacuum closure for open ended containers. 3,664,542, 5-23-72, Cl. 220-44.
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- Wolfe, John Anthony Bartlam; and Clark, John Edwin Frederick, to Chrysler United Kingdom Limited. Methods of making heat exchangers. 3,702,021, 11-7-72, Cl. 29-157.30d.
- Wolfe, John C.: *See—*
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- Wolfe, Milton; Diebold, James L.; Russell, Peter B.; and Bell, Stanley C., to American Home Products Corporation. Semicarbazidopenicillins. 3,704,292, 11-28-72, Cl. 260-239.100.
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- Wolfe, Paul G., to Philco-Ford Corporation. Deflection circuit with means for generating correction waveform. 3,706,907, 12-19-72, Cl. 315-27.00d.
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- Genyk, Walter; Martin, Raymond E.; Swift, George B.; Wiggins, Robert L.; and Wolfe, Raymond W., 3,702,510.
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 Wolfe, Richard W.; and Wolfe, Walton W. Baler and holder for folding chairs. 3,631,568, 1-4-72, Cl. 24-16.
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 Wolfe, Walton W.: *See—*
 Wolfe, Richard W.; and Wolfe, Walton W., 3,631,568.
 Wolfe-Gerate G.m.b.H.: *See—*
 Hundhausen, Eckhard, 3,648,594.
 Wolfesperger, Robert O.: *See—*
 Pasco, William R.; and Wolfesperger, Robert O., 3,634,993.
 Wolfesperger, Robert O., to Young, William E. Apparatus and method for skin packaging. 3,686,822, 8-29-72, Cl. 53-22.00a.
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 Wolfers, David, to National Research Development Corporation. Intra-uterine contraceptive. 3,659,597, 5-2-72, Cl. 128-130.
 Wolfersperger, John J. Two chamber fuel burner. 3,677,532, 7-18-72, Cl. 263-19.00a.
 Wolff & Co., Aktiengesellschaft: *See—*
 Huhn, Helmut; and Hoppe, Lutz, 3,692,748.
 Jager, Eugen, 3,661,621.
 Wolff, Allan L.; and Ferber, David. System for measuring frequency deviation. 3,659,060, 4-25-72, Cl. 179-100.2.
 Wolff, Gerald: *See—*
 Press, Meyer; Teixeira, James F.; and Wolff, Gerald, 3,633,051.
 Wolff, Gerald, to Identicon Corporation. Decoding bar patterns. 3,701,097, 10-24-72, Cl. 340-146.30z.
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 Wolff, Hanns H., to United States of America, Navy. Fire fighting trainer. 3,675,342, 7-11-72, Cl. 35-10.000.
 Wolff, Hans H., to United States of America, Navy. Radar landmass simulator. 3,699,669, 10-24-72, Cl. 35-10.40.
 Wolff, Nikolaus E.: *See—*
 Gerace, Paul L.; and Wolff, Nikolaus E., 3,672,979.
 Wolff, Otto; and Kralh, Dieter, to Siemens Aktiengesellschaft. Electron microscope deflection system for directing the beam at a predetermined angle and direction at the object. 3,644,733, 2-22-72, Cl. 250-49.5.
 Wolff, Per: *See—*
 Wolff, Per; and Larsen, Hans-Ole, 3,637,539.
 Wolff, Per; and Larsen, Hans-Ole, 3,637,540.
 Wolff, Per; and Larsen, Hans-Ole, to Wolff, Per, Kaaber, Henning and Anderson, H. C., mesne. Polyurethanes prepared from glyceride reaction. 3,637,539, 1-25-72, Cl. 260-2.5.
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 Wolff, Solomon: *See—*
 Maywald, Dennis W.; Wolff, Solomon; and Arcara, James R., 3,643,609.
 Wolff Walsrode Aktiengesellschaft: *See—*
 Jager, Eugen, 3,669,721.
 Wolff, Willi: *See—*
 Jennes, Gert; Huther, Edmund; and Wolff, Willi, 3,692,875.
 Wolff, William F.; Rosscup, Robert J.; and Ridgway, John A., Jr., to Standard Oil Company. Retardation of coke formation. 3,647,677, 3-7-72, Cl. 208-48.
 Wolff, William H.: *See—*
 Hasforth, Hector Bernard; and Wolff, William H., 3,704,753.
 Wolffing-Seelig, Gerhard; Conzelmann, Gerhard; Schirmer, Gunter; and Domann, Helmut, to Bosch, Robert, G.m.b.H. Lighting control for motor vehicle lamps. 3,634,677, 1-11-72, Cl. 240-907.1.
 Wolfgang, Haller. Cartridge type column for treatment of liquid streams and substrate enclosure therefor. 3,682,315, 8-8-72, Cl. 210-233.000.
 Wolfgang, Hans Friedrich: *See—*
 Reimpel, Uwe; Scheidig, Helmut; Wolfgang, Hans Friedrich; and Schwartz, Domke, 3,689,680.
 Wolfgang, Leverkusen: *See—*
 Herzhoff, Peter; Gref, Hans; Wolfgang, Leverkusen; Frenken, Hans; Assenmacher, Peter; and Westen, Dietmar, 3,677,076.
 Wolfgang, Lozure G., to International Telephone and Telegraph Corporation. Electron tube with bonded external semiconductor electrode. 3,705,321, 12-5-72, Cl. 313-65.0ab.

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 Wolfinger, Mark Dennis, to Monsanto Company. Inhibiting premature vulcanization of diene rubbers with N-thioformamides. 3,705,135, 12-5-72, Cl. 260-79.50b.
 Wolflin, George L. Non-plugging sprinkler. 3,658,251, 4-25-72, Cl. 239-228.
 Wolfowitz, Stanley: *See—*
 Zimmerman, Daniel; and Wolfowitz, Stanley, 3,679,540.
 Wolfram, Adolf Egmont, to General Electric Company. Television channel indicator common to VHF and UHF and easily programmable to locally available channels. 3,671,869, 6-20-72, Cl. 325-455.000.
 Wolfram, Ktittler: *See—*
 Hartmann, Heinrich; Hartmann, Job-Werner; Wilhelm, Hans; Schnell, Georg; Wolfram, Ktittler; Werst, Gerhard; and Baur, Reinhold, 3,690,946.
 Wolfram, Leszek J.: *See—*
 Hall, Kathleen E.; and Wolfram, Leszek J., 3,632,295.
 Wolfram, Leszek January: *See—*
 Hsiung, Du Yung; and Wolfram, Leszek January, 3,644,084.
 Wolfrum, Gerhard: *See—*
 Horstmann, Walter; Kalz, Dietmar; Wolfrum, Gerhard; and Siegel, Edgar, 3,634,388.
 Horstmann, Walter; Kalz, Dietmar; Wolfrum, Gerhard; and Siegel, Edgar, 3,644,405.
 Horstmann, Walter; Kaltz, Dietmar; Wolfrum, Gerhard; and Siegel, Edgar, 3,646,004.
 Kalz, Dietmar; and Wolfrum, Gerhard, 3,661,912.
 Wolfson, Alan B.: *See—*
 Lawrence, Benjamin; Wolfson, Alan B.; and Patel, Jayantilal M., 3,700,465.
 Patel, Jayantilal M.; Wolfson, Alan B.; and Lawrence, Benjamin, 3,700,464.
 Wolfson, Alan B.; Patel, Jayantilal M.; and Lawrence, Benjamin, to Procter & Gamble Company, The. Decaffeination process. 3,671,262, 6-20-72, Cl. 99-70.000.
 Wolfson, Anal B.: *See—*
 Patel, Jayantilal M.; and Wolfson, Anal B., 3,671,263.
 Wolfson, Joseph, to Bloomfield Valve Corporation. Valve. 3,677,286, 7-18-72, Cl. 137-469.000.
 Wolfson, Leonard L., to Nalco Chemical Company. Control of microorganisms in industrial process waters. 3,674,457, 7-4-72, Cl. 71-67.000.
 Wolgast, Raymond P.: *See—*
 Hall, Bertie Forrest, Jr., 3,659,678.
 Wolgemuth, Larry G.: *See—*
 Burk, Emmett H., Jr.; Kutta, Helmuth W.; and Wolgemuth, Larry G., 3,652,507.
 Fritok, William H.; Wolgemuth, Larry G.; and Strand, Robert C., 3,702,320.
 Wolgemuth, Larry G.; and Fritock, William H., to Atlantic Richfield Company. Acrylate-acrylic acid-N-vinyl urethane terpolymers. 3,645,977, 2-29-72, Cl. 260-77.5.
 Wolinski, Leon Edward; and Harris, Roland G., to Du Pont de Nemours, E. I., and Company. Thermoformed folding cartons. 3,649,437, 3-14-72, Cl. 161-161.
 Wolk, Ronald H.: *See—*
 Alpert, Seymour B.; Wolk, Ronald H.; and Chervenak, Michael C., 3,681,231.
 Johanson, Edwin S.; Wolk, Ronald H.; and Johnson, Clarence A., 3,700,584.
 Weber, Carl L.; Wolk, Ronald H.; and Chervenak, Michael C., 3,677,716.
 Wolk, Ronald H., to Hydrocarbon Research, Inc. Multi-function contacting process. 3,705,850, 12-12-72, Cl. 208-127.000.
 Wolker, Karl, to Pleuco-Gesellschaft mbH. Process for the production of cylindrical hollow bodies in the centrifugal casting process. 3,695,865, 10-3-72, Cl. 75-130.00r.
 Wolkers Research Inc.: *See—*
 Wille, Edward N.; and Volkers, Walter K., 3,680,128.
 Wolkowicz, Richard I., to Scott Paper Company. Corona treatment of antistat containing sheet of ethylene or ethylene copolymer. 3,703,569, 11-21-72, Cl. 264-22.000.
 Woll, Toni. Pneumatic dispatch systems. 3,655,146, 4-11-72, Cl. 243-35.
 Wollangk, Edward G.: *See—*
 Werner, Edward E.; and Wollangk, Edward G., 3,674,026.
 Wollard Aircraft Equipment, Inc.: *See—*
 Smith, James W., Sr.; Evans, Benjamin E.; Riggles, William M., Jr.; and Schormann, Urmas, 3,664,456.
 Wollenberg, Bruce F.: *See—*
 Stadlin, Walter O.; and Wollenberg, Bruce F., 3,683,161.
 Wollensak, John C., to Ethyl Corporation. Preparation of 2,6-di-tert-hydrocarbyl-benzoquinones. 3,646,073, 2-29-72, Cl. 260-396.
 Wollensak, John C.; and Zaweski, Edward F., to Ethyl Corporation. S-(3,5(or 6)-dihydrocarbyl-4-hydroxy-phenyl) phosphates or phosphites. 3,683,054, 8-8-72, Cl. 260-953.000.

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 Wollman, Herbert: *See—*
 Missio, Danilo V.; Wollman, Herbert; and Englander, Irving G., 3,690,767.
 Wollmann, Ernest; and Zartl, Josef, to Semperit Österreichisch-Amerikanische Gummiwerke Aktiengesellschaft. Method of manufacture of rubber article. 3,662,054, 5-9-72, Cl. 264-131.
 Wollner, Johannes; Cherubim, Martin Karl; and Henn, Friedrich Gerhard, to Deutsche Texaco Aktiengesellschaft. Epoxy resin and diglycidylisoalkylamine composition. 3,647,918, 3-7-72, Cl. 260-830.
 Wollner, Johannes; Tietz, Wolfgang; and Neier, Wilhelm, to A.G. Rheinpreussen. Process for the manufacture of acrylic acid copolymer and product. 3,682,868, 8-8-72, Cl. 260-78.50t.
 Wollney, John L.; Jawor, Ronald W.; and Sanders, Norman L. Orthodontic force model. 3,646,680, 3-7-72, Cl. 32-71.
 Wollum, James E.; Rawlings, Robert L.; and Davidson, James Clark, to Burroughs Corporation. Method and apparatus for testing logic functions in a multiline data communication system. 3,646,519, 2-29-72, Cl. 340-172.5.
 Wollweber, Hartmund; Hiltmann, Rudolf; and Stendel, Wilhelm, to Farbenfabriken Bayer Aktiengesellschaft. N-substituted-2-arylimino oxazolindiones. 3,686,199, 8-22-72, Cl. 260-307.00f.
 Wolnak, Bernard; Andreen, Brian; and Wen, Chin-Yung, to Institute of Gas Technology. Microbiological oxidation of hydrocarbons. 3,649,459, 3-14-72, Cl. 195-96.
 Wolniak, Stanley C.; Kincaid, Herbert J.; and Johnson, Marshall A. Rotary switch lock. 3,639,708, 2-1-72, Cl. 200-44.
 Wolofski, Nicholas: *See—*
 Meyers, John S.; and Wolofski, Nicholas, 3,669,498.
 Wolofski, Nicholas, to Hoover Ball and Bearing Company. Seat back structure. 3,697,133, 10-10-72, Cl. 297-460.000.
 Wolosin, Samuel M.: *See—*
 Ettinger, Bruce L.; and Wolosin, Samuel M., 3,666,526.
 Wolowitz, Benno: *See—*
 Tonne, Franz; Brand, Werner; and Wolowitz, Benno, 3,675,593.
 Wolowodiuk, Walter; and Stern, Tobias, to Foster Wheeler Corporation. Liquid metal heat exchanger. 3,656,543, 4-18-72, Cl. 165-74.
 Wolpert, Tadeusz: *See—*
 Vago, Frans; and Wolpert, Tadeusz, 3,683,118.
 Wolski, Adolph J., to Zenith Radio Corporation. Image intensifier employing channel multiplier plate. 3,660,668, 5-2-72, Cl. 250-213.
 Wolski, Karlheinz: *See—*
 Becker, Klaus; and Wolski, Karlheinz, 3,694,020.
 Wolter, Hans: *See—*
 Fuhring, Heinrich; Fleschhut, Richard; and Wolter, Hans, 3,638,265.
 Woltermann, Jay R.: *See—*
 Braus, Harry; and Woltermann, Jay R., 3,637,863.
 Wolters, Ernst: *See—*
 Burg, Karlheinz; Wolters, Ernst; Cherdron, Harald; and Leugering, Hans-Joachim, 3,704,275.
 Wolters, Peter, Kratzenfabrik und Maschinenfabrik: *See—*
 Caspers, Willi, 3,662,498.
 Wolters, Richard H., to Steelcase, Inc. Chair iron. 3,659,819, 5-2-72, Cl. 248-373.
 Wolters, Richard H., to Steelcase Inc. Chair control. 3,662,983, 5-16-72, Cl. 248-373.
 Wolters, Tjako Aaldrik: *See—*
 De Koning, Jan; and Wolters, Tjako Aaldrik, 3,681,862.
 Wolters, Tjako Aaldrik; and Van Der Veen, Romke, to Ballast-Nedam Groep N.V. Method and apparatus for loading a dredging vessel with dredging spoil. 3,698,573, 10-17-72, Cl. 214-15.00b.
 Woltersdorf, Otto W., Jr.: *See—*
 Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., 3,636,073.
 Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., 3,668,241.
 Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., 3,704,314.
 Wolthuis, Kornelis Gerrit: *See—*
 Van Der Schuyt, Abraham; and Wolthuis, Kornelis Gerrit, 3,660,133.
 Wolthuis, Roger A.: *See—*
 United States of America, National Aeronautics and Space Administration, 3,638,066.
 Woltjen, Duane W., to UMC Industries, Inc. Flexible belt carrier mechanism. 3,636,783, 1-25-72, Cl. 74-229.
 Wolverine Industries, Inc.: *See—*
 De Vries, Robert W., 3,661,349.
 Wolverine Manufacturing Company, mesne: *See—*
 Prins, Richard, Sr.; and Prins, Richard, Jr., 3,697,056.
 Wolverine Toy Company, Inc.: *See—*
 Green, Joseph, 3,642,281.
 Wolverine World Wide, Inc.: *See—*
 Harlan, Martin L.; Davis, Jerry L.; and Nyland, Lloyd A., 3,640,325.

- Panther, Peter D.; Denis, Claude P-E.; and Kaempfer, Gerhard P., 3,688,325.
 Panther, Peter D.; Denis, Claude P-E.; and Kaempfer, Gerhard P., 3,698,028.
 Wolverine-Pentronix, Inc.: *See—*
 DeTroyer, Georges D., 3,645,658.
 Smith, Joseph E., 3,640,654.
 Smith, Joseph E., 3,647,333.
 Smith, Joseph E., 3,669,582.
 Smith, Joseph E., 3,671,157.
 Smith, Joseph E., 3,687,588.
 Wolverton, Billy C., to United States of America, Air Force. Monoethanolamine-lithium decontaminating agent. 3,634,278, 1-11-72, Cl. 252-192.
 Wolverton, Harry D.: *See—*
 Cuning, Alfred C.; and Wolverton, Harry D., 3,640,128.
 Wolz, Hermann: *See—*
 Wambach, Raimund; von Bonin, Wulf; and Wolz, Hermann, 3,658,912.
 Wolzak, Willem, to Stork-Amsterdam N.V. Device for transforming the direction of movement with respect to the main line of symmetry of a row of advancing cylindrical containers. 3,687,258, 8-29-72, Cl. 198-20.00r.
 Womack, Karl K.: *See—*
 Carnevale, Richard J.; Howe, Leland D., Jr.; Metz, Thomas A.; Womack, Karl K.; and Zuria, Frank A., 3,656,123.
 Dunbar, Robert G., Jr.; and Womack, Karl K., 3,651,475.
 Metz, Thomas A.; and Womack, Karl K., 3,651,476.
 Womack, William Randol. View and cutter apparatus. 3,704,067, 11-28-72, Cl. 355-29.000.
 Womble, George E.: *See—*
 Cooper, Hugh; Whitehouse, Dale S.; and Womble, George E., 3,669,193.
 Womble, George E.; and Schwartz, Lorrin H., to Kewanee Machinery & Conveyor Co. Locking device for a disc harrow wing section. 3,633,680, 1-11-72, Cl. 172-456.
 Womble, George E.; and Suhr, James L., to Kewanee Machinery & Conveyor Co. Clamp for coupling pipes. 3,635,506, 1-18-72, Cl. 285-411.
 Womble, George E., to Kewanee Machinery & Conveyor Co. S-shaped standard. 3,640,348, 2-8-72, Cl. 172-573.
 Womble, George E.; and Cleveland, Rex, to Kewanee Machinery & Conveyor Co. Spring biased coupling member on a disk gang for driving engagement with a folding wing gang coupling member. 3,702,639, 11-14-72, Cl. 172-568.000.
 Womeldorf, Waldo M.: *See—*
 Townsend, Vernon R.; and Womeldorf, Waldo M., 3,665,102.
 Wommack, Joel B., Jr.: *See—*
 Adams, Charles D.; and Wommack, Joel B., Jr., 3,705,173.
 Wonder Curl Limited: *See—*
 Giles, Harold; and Noble, Marshall, 3,680,565.
 Wonderly, Clifford L., to Florida Gas Company. Process of making honeycomb panels. 3,700,522, 10-24-72, Cl. 156-197.000.
 Wondolowski, Lawrence: *See—*
 Gibbons, John P.; and Wondolowski, Lawrence, 3,706,726.
 Wondowski, Raymond S. Tweezer with adjustable precision grip. 3,638,516, 2-1-72, Cl. 81-43.
 Wong, Edward, Jr., to Weingarten & Wong Enterprises, Inc. Hydroponics system and method. 3,660,933, 5-9-72, Cl. 47-1.2.
 Wong, Herman: *See—*
 Becker, Carl H.; Dell, Harold R.; French, Ballard D.; Hashiguchi, Masao; McFarland, Keith E.; and Wong, Herman, 3,654,624.
 Becker, Carl H.; Dell, Harold R.; McFarland, Keith E.; and Wong, Herman, 3,665,483.
 McFarland, Keith E.; Becker, Carl H.; Dell, Harold R.; Hashiguchi, Masao; Lara, Edward D.; and Wong, Herman, 3,657,707.
 Wong, Janet C.; and Chao, Sidney C., to Kaitronics. Video tape analyzer and method. 3,662,158, 5-9-72, Cl. 235-92.
 Wong, Kwok-Ming: *See—*
 Lee, Admond K.; and Wong, Kwok-Ming, 3,678,679.
 Wong, Morton M., to United States of America, Interior. Electrowinning of beryllium. 3,666,444, 5-30-72, Cl. 75-84.4.
 Wong, Moses See Sum: *See—*
 Lapinas, Zigmaz J.; and Wong, Moses See Sum, 3,682,189.
 Wong, Patrick Seck-Lai: *See—*
 Merrill, Edward W.; and Wong, Patrick Seck-Lai, 3,658,745.
 Merrill, Edward W.; and Wong, Patrick Seck-Lai, 3,673,612.
 Wong, Peter J.; Ross, Dale W.; and Gardiner, Kenneth W., to Southern Pacific Transportation Company. Rollability prediction system. 3,689,788, 9-5-72, Cl. 246-182.00a.
 Wong, Philip: *See—*
 Fischer, Leonard G.; and Wong, Philip, 3,676,158.
 Wong, Philip; and Messier, Donald R., to United States of America, Army. Production of single crystal aluminum oxide. 3,661,676, 5-9-72, Cl. 156-304.
 Wong, Robert; and Hill, Homer G., to Owens-Corning Fiberglas Corporation. Method of producing bonded randomly oriented glass fiber mats and batts. 3,669,638, 6-13-72, Cl. 65-3.000.
 Wong, Soon Y.: *See—*

- Boyer, Lyndon D.; Coldiron, Arnold L.; and Wong, Soon Y., 3,655,801.
- Wong, Thomas S.: See—
Shoaf, Myron D.; Ketch, Frederick M.; and Wong, Thomas S., 3,669,681.
- Wong, Thomas W.: See—
Brown, Arthur; and Wong, Thomas W., 3,643,148.
- Wong, William Y.: See—
Arbab, Majid; Wong, William Y.; and Yu, Kuenseng, 3,680,061.
- Wong, Winston A., to Kaiser Aluminum & Chemical Corporation. Method for making aluminum sheet. 3,661,657, 5-9-72, Cl. 148-32,000.
- Wong, Yit-Chen. Kite reel. 3,652,027, 3-28-72, Cl. 242-96.
- Wonn, Quinby E.: See—
Borman, August H.; Green, Lawrence E.; and Wonn, Quinby E., 3,642,107.
- Wonner, Robert K.: See—
Lanzendorfer, Max J.; Lauer, Marvin E.; and Wonner, Robert K., 3,648,577.
- Wontorsky, Alexander: See—
Ruchlemann, Herbert E.; and Wontorsky, Alexander, 3,675,185.
- Woo, Charles; and Butler, Roger M., to Esso Research and Engineering Company. Purification of bis-beta-hydroxyethyl terephthalate. 3,652,649, 3-28-72, Cl. 260-475.
- Woo, Gar Lok: See—
Sweeney, William A.; and Woo, Gar Lok, 3,652,662.
- Sweeney, William A.; and Woo, Gar Lok, 3,705,114.
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- Woo, James T. K.: See—
Rubens, Louis C.; and Woo, James T. K., 3,694,416.
- Woo, Jung Woo; Waters, Paul F.; Horowitz, Raymond H.; and Hadermann, Albert F., to United States of America, Interior. Method of making reverse osmosis membranes for desalination of water. 3,662,046, 5-9-72, Cl. 264-41,000.
- Woo, Kenneth E.: See—
United States of America, National Aeronautics and Space Administration, 3,665,481.
- Woo, Lin S.: See—
Lourie, Janice Richmond; and Woo, Lin S., 3,634,827.
- Wood, Allan, Steel Company: See—
Jablin, Richard; and Leister, Robert G., 3,672,595.
- Wood, Arthur Eastman; Marvin, Ralph Edward; and Bates, Ralston Everett, to Teledyne, Inc. Electrical relay with magnetic armature retention means. 3,656,073, 4-11-72, Cl. 335-179.
- Wood, Barry Bertram. Split handle jack knife. 3,702,501, 11-14-72, Cl. 30-153,000.
- Wood, Bernard J., to Stanford Research Institute. Catalytic conversion of alkanes and olefins to a preselected olefin isomer. 3,702,876, 11-14-72, Cl. 260-683,200.
- Wood, Brian. Spring-loaded bow. 3,635,205, 1-18-72, Cl. 124-24.
- Wood, Brian. Bowsight. 3,693,262, 9-26-72, Cl. 33-265,000.
- Wood, Bruce V. Impact crusher. 3,652,023, 3-28-72, Cl. 241-275.
- Wood, Charles; Schottmiller, John C.; and Roy, Rustum, to Xerox Corporation. Electrophotographic denitrified glass binder plate. 3,655,376, 4-11-72, Cl. 96-1.5.
- Wood, Charles Drury, III; Olsen, Sydney, Alvin; and Potter, Jimmie Clinton, to Deere & Company. Air filter. 3,680,287, 8-1-72, Cl. 55-524,00.
- Wood, Charles E.: See—
Di Napoli, Nicholas; Friedman, Donald; Nicholls, Robin P.; Wilcox, Howard A.; and Wood, Charles E., 3,665,397.
- Wood, Chester W.: See—
Boudot, William Donald; Wood, Chester W.; and Holder, Charles A., 3,653,415.
- Moore, Glenn E.; Wilson, Fred A.; and Wood, Chester W., 3,646,974.
- Wood, Daniel J.; and Wood, Harold E. Backing member for checks. 3,702,924, 11-14-72, Cl. 235-61,12r.
- Wood, David L., to General Electric Company. Luminaire ballast bracket. 3,662,164, 5-9-72, Cl. 240-25.
- Wood, Dennis E., to Curlator Corporation. Non-woven web. 3,669,823, 6-13-72, Cl. 161-141,000.
- Wood, Derek Harold: See—
Taylor, George Wright; and Wood, Derek Harold, 3,639,447.
- Wood, Donald B.; and Kiel, Othar M., to Esso Production Research Company. Gravel pack method. 3,695,355, 10-3-72, Cl. 166-295,000.
- Wood, Donald C.: See—
Cooper, Robert S.; and Wood, Donald C., 3,682,829.
- Wood, Donald E., to Minnesota Mining and Manufacturing Company. Hand tape dispenser with tape positioning means. 3,684,626, 8-15-72, Cl. 156-576,000.
- Wood, Donald L.: See—
Schexnayder, Donald A.; and Wood, Donald L., 3,654,093.
- Wood, Donald W., to Argus Chemical Corporation. Alpha-halo substituted asymmetrical diacyl peroxides. 3,652,681, 3-28-72, Cl. 260-610.
- Wood, Edward C., to Sierracin Corporation. The. Apparatus for stretching sheet material. 3,635,640, 1-18-72, Cl. 425-445.
- Wood Electric Corporation: See—
Brackett, Lawrence W., Sr., 3,646,487.
- Wood, Everitt Franklin, to Du Pont de Nemours, E. I., and Company. Process for bonding cylindrically-shaped articles. 3,681,161, 8-1-72, Cl. 156-285,000.
- Wood, Frederick C.: See—
Kelley, Arnold E.; and Wood, Frederick C., 3,644,197.
- Wood, Gary R.: See—
Ragen, Robert A.; Herendeen, Carl E.; and Wood, Gary R., 3,678,471.
- Wood, Gary R., to Westinghouse Electric Corporation. Discharge nozzle arrangement for centrifugal gas compressor. 3,635,579, 1-18-72, Cl. 415-119.
- Wood, George A.: See—
Hobrough, Gilbert L.; and Wood, George A., 3,687,547.
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Fusco, Ralph L., 3,636,873.
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Lucien, Victor Gewiss, 3,698,879.
- Wood, Marvin E., to Ecodyne Corporation. Filter screen training mechanism. 3,692,674, 9-19-72, Cl. 210-401,000.
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- Wood, William D.: See—
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- Wood, William Wadsworth. Updatable film apparatus for a microfilm retrieval system. 3,667,838, 6-6-72, Cl. 353-26,000.
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Nisbet, John L.; and Woodall, Hubert C., Jr., 3,654,056.
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Buening, Jerome M.; Paulsen, Robert M.; and Robinette, Clifford A., 3,666,282.
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- Woodbridge, David D.: See—
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- Woodford, Terrence R., to Institute of Textile Technology. Creel structure for circular knitting machines. 3,678,713, 7-25-72, Cl. 66-132,00r.
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- Woodhams, Glen A.: See—
La Force, Walter P.; and Woodhams, Glen A., 3,667,124.
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- Woodhull, John K. Garment hanger support. 3,666,149, 5-30-72, Cl. 223-85.000.
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Brenig, Theodore; Smith, James S., Jr.; and Woodie, Paul E., Jr., 3,689,699.
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- Woodings, Eric T., to Commercial Solvents Corporation. Process for producing zearalenone. 3,661,714, 5-9-72, Cl. 195-36.
- Woodke, Charles L., III. Three point tow bar. 3,649,049, 3-14-72, Cl. 280-502.
- Woodland, Hamilton David: *See—*
Lindburg, Norman Lee; and Woodland, Hamilton David, 3,631,593.
- Woodland, Lawrence R.: *See—*
Johnson, Dennis E.; Woodland, Lawrence R.; Kensler, Charles J.; and Himmelfarb, Philip, 3,647,632.
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- Woodle, Robert Alan, to Texaco Inc. Control method and means for obtaining optimum yields of refined oil and extract oil from charge oil. 3,666,931, 5-30-72, Cl. 235-151.12.
- Woodle, Robert Alan, to Texaco Inc. Means and method for controlling a solvent refining unit for maximum yield. 3,686,488, 8-22-72, Cl. 235-151.120.
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- Woodling, George V. Axial limit means for male and female spline teeth in an orbital connection. 3,657,903, 4-25-72, Cl. 64-23.
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Henry, Nelson R.; and Middour, Donald R., 3,668,815.
Henry, Nelson R., 3,684,254.
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Coopersmith, Leo; and Woodman, Frank H., Jr., 3,655,228.
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- Woodron Inc.: *See—*
Klaskin, Leonard; and Feldstein, Jesse, 3,652,372.
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Browne, Roger Drury; McCurich, Laurence Henry; Parkinson, John David; and Heffer, Edward Charles, 3,675,474.
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Reiling, Joseph W., 3,676,986.
- Woods, Gerald F.; and Weaver, Robert, to Bunker-Ramo Corporation, The. Coaxial cable connectors. 3,683,320, 8-8-72, Cl. 339-177.00e.
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Kelly, Joseph L., Jr.; and Woods, Henry B., 3,682,258.
- Woods Hole Oceanographic Institution: *See—*
Witzell, Warren E., 3,659,257.
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Fowler, Raymond L.; Parken, Edward W.; Robbins, Larry H.; and Woods, Joe W., 3,666,262.
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Hubble, William Schenck; Woods, Kenneth K.; and Tramuta, Salvatore S., 3,667,430.
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Mills, Harry; and Woods, Leslie, 3,666,360.
- Woods, Michael Faulkner: *See—*
Blake, Anthony; Halliday, Denis Malcolm; and Woods, Michael Faulkner, 3,671,268.
- Woods Research and Development Corporation: *See—*
Korf, Christiaan, 3,687,883.
Van Dyk, John C., 3,635,289.
Van Dyk, John C., 3,692,724.
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Whitney, John A.; and Woods, Richard E., 3,641,538.
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Button, Calvin L.; and Woods, Waldemar E., 3,663,672.
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Helbig, Walter A.; and Woods, William E., 3,637,211.
Thron, John E.; Woods, William E.; Bellettiere, Ronald; and Stein, Howard, 3,648,252.
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Woodside, Frank G.; and Uren, Richard F. (said Uren assor. to said), 3,669,281.
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Clement, Carl J., 3,694,067.
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Pasek, James E.; and Woodward, Charles D., 3,671,085.
- Woodward, Charles D., to General Motors Corporation. Anti-lock modulator with mechanically resettable control valve. 3,671,084, 6-20-72, Cl. 303-21.00f.
- Woodward, Derrick Ronald, to JWI Ltd. Apparatus for installing and removing foils from paper making machines. 3,657,067, 4-18-72, Cl. 162-199.
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Curtis, James H.; and Woodward, Fred E., 3,673,105.
Lichtman, Irwin A.; and Woodward, Fred E., 3,697,440.
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Plummer, Alan C., 3,635,050.

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- Woodward, Henry L., Jr. Holder for sheet material. 3,692,170, 9-19-72, Cl. 206-1.00a.
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Corey, Earl E.; Tuft, Richard A.; and Woodward, Jason H., 3,706,022.
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Butler, Kenneth; Conover, Lloyd H.; and Woodward, Robert B., 3,699,117.
Conover, Lloyd H.; and Woodward, Robert B., 3,697,552.
- Woodward, Robert Burns: *See—*
Heusler, Karl; and Woodward, Robert Burns, 3,703,512.
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Clifford, George F., Jr.; and Woodward, Robert C., 3,706,877.
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Skibo, Andrew D.; and Woodworth, Chester L., 3,647,344.
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- Woolcock, Alan; McDougall, Ian Leitch; and Barber, Anthony Clifford. Method of fabricating a superconducting composite. 3,686,750, 8-29-72, Cl. 29-599.000.
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Beyleveld, Wilhelmus M.; Oxenrider, Bryce C.; and Woolf, Cyril, 3,697,562.
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Lichstein, Bernard M.; and Woolf, Cyril, 3,705,007.
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Freiberger, Ronald D.; and Woolley, James L., 3,668,497.
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Dodman, David; and Woolley, John Mathers, 3,637,820.
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Anderson, Carl S.; Bittle, David F.; Veazey, Thomas M.; and Wooten, Robert G., 3,642,733.
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Ward, Edward J.; and Way, Rodney, 3,693,501.
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Fisher, Peter D.; Word, James C., IV; and Bourg, Haden J., Jr., 3,657,006.
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Kowalski, Slawomir; and Worden, Donald A., 3,658,090.
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Weisselberg, Edward B.; Worden, George M., Sr.; Lamp, William F.; and Lane, Alexander M., 3,681,855.
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Looney, Robert L.; and Work, John S., 3,633,813.
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White, Arnold G.; Smith, Thomas E.; and Work, Lyall C., 3,656,897.
- Work, Lyall Campbell: *See—*
White, Arnold George; Smith, Thomas Edward; Work, Lyall Campbell; and Miller, Willard Wallace, 3,664,929.
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Kaczmarek, Bernard; and Lander, Vern, 3,686,601.

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- World Industries, Inc.: See—
- Bond, William D., 3,677,711.
- World Patent Development Corporation: See—
- Milsimer, Frantisek; and Zampach, Jiri, 3,652,352.
- Salz, Karl; and Skrivane, Ladislav, 3,698,925.
- Worldtronic Inc.: See—
- Salenbien, Albert L., Jr.; and Wood, William D., 3,686,653.
- Worldwide Computer Services Inc.: See—
- Primoff, Eugene H., 3,653,667.
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- Worner, Howard Knox, to Conzinc Riotinto of Australia Limited. Separation of molten materials. 3,632,335, 1-4-72, Cl. 75-63.
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- Worrall, James D. Thermosetting dry transfer. 3,684,545, 8-15-72, Cl. 117-3,400.
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- Worrell, Clyde: See—
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- Redwine, Donald J.; and Worstell, Earl M., Jr., 3,649,843.
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- Worster, Hans Edmund; and Pudek, Marian Franciszek, to Bloedel, MacMillan Limited. Two-stage soda-oxygen pulping. 3,691,008, 9-12-72, Cl. 162-25,000.
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- Worth, Arthur J., to Federal Pacific Electric Company. Fuse terminal connector. 3,644,880, 2-22-72, Cl. 339-270.
- Worth, Donald F.: See—
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- Worth, Gerald W.: See—
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- Stout, Beauford F.; and Hann, George W., 3,672,215.
- Wortham, Joseph S.: See—
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- Worthen, Richard A.: See—
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- Brown, George J.; and Ewing, Robert J., 3,691,017.
- Sussman, Bernard J., 3,678,158.
- Worthington Compressor and Engine International; division of Worthington Corporation: See—
- Bloom, Carl, 3,632,231.
- Klessig, Ernest F., 3,695,366.
- Paulson, Loree A. D.; Cahoon, John A.; and Frogameni, James, 3,648,956.
- Potter, Olin E.; and Tomasi, Biagio J., 3,690,371.
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- Biheller, Hans J., 3,664,759.
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- Budris, Allan R.; McGowan, Frank J.; Evans, Lewis M.; Wayne, Theodore J.; Lithen, Eric E.; and Darcy, Charles B., 3,646,901.
- Mayer, Thomas E., Sr.; and Yokota, George, 3,656,500.
- Smith, Wilbur C.; and Nagengast, Philip Joseph, 3,637,331.
- Smith, Wilbur C., 3,703,811.
- Story, John N.; Mayer, Thomas E.; and Yokota, George, 3,648,722.
- Williams, John G., 3,677,659.
- Wyzalek, Leonard J.; and Peterson, Henry W., 3,698,476.
- Zehr, Richard M.; Mott, James; and Schlimgen, Lawrence, 3,665,399.
- Worthington Corporation (Worthington Compressor and Engine International Division): See—

- Klessig, Ernst F., 3,664,435.
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- Hartman, Warren Emery; and Johnson, William Randall, 3,677,038.
- Worthington, Geoffrey George. Vices. 3,685,817, 8-22-72, Cl. 269-139,000.
- Worthington, Stanley W. Actuating mechanism for refuse container. 3,653,271, 4-4-72, Cl. 74-101.
- Worthington Turbine International, Inc.: See—
- Lehmann, David M., 3,652,831.
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- Wortley, Stewart W. Motion transfer device. 3,638,505, 2-1-72, Cl. 74-54.
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- Wortman, Robert R.: See—
- Ross, John M.; White, Warren V.; and Wortman, Robert R., 3,640,366.
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- Easley, Charles E.; and Wosaba, Charles L., II, 3,653,382.
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- Manning, Harold E.; Woskow, Marvin Z.; and Christmann, Harold F., 3,702,875.
- Wosnitzky, Lawrence F. Fish clamping implement. 3,632,151, 1-4-72, Cl. 294-16.
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- Wotschke, Johannes. Device for thermic destruction of raw and waste materials. 3,641,952, 2-15-72, Cl. 110-8.
- Wouda, Sally A., to International Telephone and Telegraph Corporation. Holding device for cellophane bags. 3,685,252, 8-22-72, Cl. 53-189,000.
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- Mason, Daniel W.; Greenstein, Bernard; and Woulbroun, John M., 3,681,261.
- Woulds, Michael J.: See—
- Lund, Carl H.; Hockin, John; and Woulds, Michael J., 3,677,331.
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- Wouterus Bom, Johannes Gerardus, to U.S. Philips Corporation. Network having a resistance the temperature coefficient of which is variable at will. 3,638,049, 1-25-72, Cl. 307-310.
- Wowk, Anatole, to M & T Chemicals Inc. Stabilized halo-vinyl resin compositions. 3,655,613, 4-11-72, Cl. 260-45,75.
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- Wowk, Nicholas F.: See—
- Newberry, George M.; and Wowk, Nicholas F., 3,675,820.
- Wowries, August Hermann. Tuning device. 3,647,930, 3-7-72, Cl. 84-318.
- Woyden, Stanley J., to International Patents & Development Corporation. Arrangement for compacting refuse. 3,636,863, 1-25-72, Cl. 100-49.
- Woythal, Gilbert S.: See—
- Zernov, Peter; and Woythal, Gilbert S., 3,702,673.
- Woywood, Dennis J., to RCA Corporation. Beam control system. 3,646,568, 2-29-72, Cl. 346-108.
- Wozny, Eugene Taras: See—
- Gervis, Melvyn A.; Wozny, Eugene Taras; and Giardina, Nicholas, 3,645,045.
- Wrabel, James A.: See—
- Jachimek, Thomas P.; and Wrabel, James A., 3,665,208.
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- Wrabetz, Voyta E., to Square D Company. Plunger operated reed relay switch. 3,676,812, 7-11-72, Cl. 335-205,000.
- Wragg, Arthur Hedley: See—
- Ellis, Gwynn Pennant; and Wragg, Arthur Hedley, 3,652,765.
- Wragg, Arthur Hedley, to Fisons Limited. 6-7-Ethylenediamine-2-carboxylic acid and derivatives thereof. 3,687,979, 8-29-72, Cl. 260-340,300.
- Wrapping Machinery Company, Inc.: See—
- Young, John T.; Michels, Charles E.; Zimmerman, Thomas C.; and Hagemann, Gilbert M., 3,693,737.
- Wrather, J. D., Jr. mesne: See—
- Shade, Ross A.; and Terbrack, William H., 3,697,891.
- Wrau, Norman J.: See—
- Coyle, Roy M., Sr., 3,696,628.
- Wray, Carl Frank. Hydroglyder. 3,636,906, 1-25-72, Cl. 114-66,5.
- Wray, Gary Q.: See—
- Manes, Dewey K.; Farley, David L.; and Wray, Gary Q., 3,646,995.
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- Wray, Glenn C.: See—
- Coons, William R., Jr.; Nelson, Gerald V.; and Wray, Glenn C., 3,686,095.
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- Wray, Ronald J.: See—
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- Wrege, Warren R., to General Signal Corporation. Remote control of a locomotive. 3,639,755, 2-1-72, Cl. 246-187.
- Wren, Frederick James: See—
- Barnbrook, Thomas George; and Wren, Frederick James, 3,672,019.
- Wren, Henry K. Non combustible and fireproofing polymer compositions and process. 3,663,463, 5-16-72, Cl. 260-2,5fp.
- Wren, Holvy: See—
- Villanueva, Antonio R., 3,674,263.
- Wrench, R. F. Electric broiler for simultaneously broiling a plurality of large viands. 3,688,685, 9-5-72, Cl. 99-427,000.
- Wrenn, James M.: See—
- Miller, Daniel D.; Miller, Donald D.; and Wrenn, James M., 3,672,076.
- Wrenner, Warren R.: See—
- Baldwin, Edwin C., Jr.; and Wrenner, Warren R., 3,699,304.
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- Wrestler, Frank; Swift, Harry J.; and Wrestler, Edgar R., 3,703,802.
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- Wrigge, Friedrich Wilhelm: See—
- Hirt, Wilhelm; Lehnerdt, Hagen; Weckesser, Ernst; Weinhold, Gottfried; and Wrigge, Friedrich Wilhelm, 3,673,074.
- Wright, Allen C., to Haws Drinking Faucet Company. Flow control device. 3,642,031, 2-15-72, Cl. 138-45.
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Kint, Louis F., 3,682,392.
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- Andres, Karlheinz; Brochhagen, Franz Karl; Wunderer, Anton; and Fulber, Josef, 3,645,927.
- Wunderink, Jan: *See—*
- Wijmenga, Romke; and Wunderink, Jan, 3,662,064.
- Wunderlich, Frederick C.: *See—*
- Bedker, Bruce D.; and Wunderlich, Frederick C., 3,673,832.
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- Andersen, Clifford W., 3,643,539.
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- Arsem, Alvan Donald; and Schwartz, Harold O., 3,696,201.
- Lumney, Frank B.; and Eberhardt, Ronald P., 3,690,680.
- Wurm, Bruno: *See—*
- Herterich, Walter; Probst, Georg; and Wurm, Bruno, 3,677,386.
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- Pohlemann, Heinz; Wurmb, Rolf; Kunde, Joachim; and Stanger, Bernd, 3,637,908.
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- Burgermeister, Ulrich; Gaggini, Carlo; and Wurmli, Arthur, 3,681,906.
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- Tesoro, Guiliana; Sello, Stephen B.; Moore, Donald R.; and Wurster, Rudolf F., 3,650,670.
- Wurth, Hans Ulrich: *See—*
- Mattsson, Erik Harry; and Wurth, Hans Ulrich, 3,650,878.
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- Cachon, Rene P.; Grundon, Forrest R.; Masterson, Frank H.; Miller, Joseph C.; and Wustrau, Fred E., 3,645,622.
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- Eberle, Hans; and Wuttke, Gerhard, 3,640,921.
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- Johnson, Alvin C.; and Inks, Clyde G., 3,634,305.
- Kokorudz, Michael, 3,641,151.
- Strassel, Albert Pierre, 3,655,597.
- Urry, Wilbert H.; and Niu, Hsien Ying, 3,676,469.
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- Hymes, Alan C.; Margulis, Rajko R.; and Nalbandian, Robert M., 3,641,240.
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- Ritchie, Edwin E., 3,643,706.
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- King, Phillip W.; Van Dyck, Kenneth A.; and Wyatt, James B., 3,653,123.
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- McCawley, Frank X.; Wyche, Charlie; and Schlain, David, 3,697,390.
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- Grundschober, Friedrich; Wychera, Erhard; and Carriere, Jean Paul, 3,680,689.
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- Wyckoff Company: *See—*
- Hudson, Charles D., 3,706,580.
- Wyckoff, Robert E.: *See—*
- Stalego, Charles J.; and Wyckoff, Robert E., 3,653,861.
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- Rochelle, William R.; and Wycoff, Ronald Lee, 3,646,947.
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- Gould, Richard E.; Munson, Arden L.; and Wydler, Walter A., 3,634,801.
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- Cruickshank, David Graham; Epperson, James Philbert; Murray, William, Sr.; and Wydro, Richard Allen, Sr., 3,632,955.
- Wyers, Joseph H.: *See—*
- Orr, Robert F.; and Wyers, Joseph H., 3,641,906.
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- Archibald, John Leheup, 3,655,674.
- Brown, Kevan; and Cavalla, John Frederick, 3,644,399.
- Cavalla, John Frederick; Simpson, Roy; and White, Alan Chapman, 3,703,529.
- Gadsby, Brian; and Leeming, Michael R. G., 3,646,012.
- Rule, Arthur W. T.; Shimmis, Roy E.; and Laundry, Timothy, 3,639,605.
- Wyeth, John, & Brother Limited, mesne: *See—*
- Hollowood, John, 3,632,587.
- Wyeth, Richard W.: *See—*
- Farnsworth, Robert P.; and Wyeth, Richard W., 3,666,367.
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- Wyckoff, Richard H.: *See—*
- Hirs, Gene; and Wyckoff, Richard H., 3,695,433.
- Wyland, J. W., & Sons, Inc.: *See—*
- Wyland, Roy Bruce, 3,650,366.
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- Wylde, Stephen Jack, to J. & S., Limited. Device for imparting motion to an optical lens. 3,665,651, 5-30-72, Cl. 51-160.000.
- Wyle Laboratories: *See—*
- Deckard, Charles E., 3,691,822.
- Wyer, Max: *See—*
- Calzaferri, Hans; Kunz, Werner; Schwemmer, Martin W.; and Wyler, Max, 3,647,353.
- Wyles, Raymond Allen, to Jones, William Owen Mc Kenzie. Machine tools. 3,636,804, 1-25-72, Cl. 82-21.

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Machell, Eugene F.; Wylie, John E.; and Thompson, Robert B., 3,662,013.
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Kruse, Jurgen M.; and Wyman, John E., 3,700,495.
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Keefer, Richard D.; and Wyman, John S., Jr., 3,654,801.
- Wyman-Gordon Company: *See*—
Robrecht, Charles J.; and Wyman, John S., Jr., 3,693,410.
- Wyman-Gordon Company: *See*—
Heitman, George H., 3,649,259.
- Heitman, George H.; Strom, Eric T.; and Cerrone, Anthony G., 3,691,811.
- Wyman-Gordon Company, *mesne*: *See*—
Grankowski, Eugene E.; and Pappas, Lambros A., 3,668,920.
- McElroy, Howard J., 3,638,473.
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Randall, David I.; and Wynn, Robert W., 3,679,780.
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Coco, Charles E.; and Garszczynski, Suzanne M., 3,645,768.
- Gundersen, Allan A.; and Ramsey, Fred T., 3,638,335.
- Reich, Eugene H.; and Zashtowt, Frank J., 3,681,116.
- Trewella, Robert J., 3,647,152.
- Trewella, Robert J., 3,652,006.
- Wypco Corporation, *The*: *See*—
Rosen, Ian K., 3,659,310.
- Wyse, Stanley F.: *See*—
Erdley, Harold F.; and Wyse, Stanley F., 3,678,764.
- Wyslouzil, Walter, to Canadian Patents and Development Limited. Recorder for acoustic ranging system. 3,644,881, 2-22-72, Cl. 340-6.
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- Wysocki, Joseph J.: *See*—
Haas, Werner E. L.; Adams, James E.; Becker, James H.; and Wysocki, Joseph J., 3,655,971.
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Loy, Alfred; Paithell, Harold; and Wysocki, Kazmier, 3,684,129.
- Wysong, Don V.; and White, Halbert C., to Dow Chemical Company, *The*. 2-(Substituted benzyl) methyl-2-imidazolines. 3,660,423, 5-2-72, Cl. 260-309,6.
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- Wyss, Clement R.: *See*—
Cassanelli, Robert R.; Wauters, Ronald P.; Wirchansky, Anastasia C.; and Wyss, Clement R., 3,702,254.
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- Wyss, Escher Limited: *See*—
Kaiser, Friedrich, 3,669,404.
- Wyss, Hugo; Method for the production of electrical resistor bodies, and electrical resistor bodies produced in accordance with said method. 3,679,471, 7-25-72, Cl. 117-201,000.
- Wyss, Otto. Lattice grid assembly. 3,685,243, 8-22-72, Cl. 52-665,000.
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Weisselberg, Edward B.; Worden, George M., Sr.; Lamp, William F.; and Lane, Alexander M., 3,681,855.
- Wystrach, Vernon Paul; and Rauch, Francis Clyde, to American Cyanamid Company. Chemical treatment of metal. 3,634,146, 1-11-72, Cl. 148-6,15.
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Gussack, Seymour I.; and Berry, Hugh, 3,677,594.
- X-trad Corporation: *See*—
Lentini, Carlo A., 3,635,650.
- X-4 Corporation, *The*: *See*—
Schnepel, Lawrence S., 3,702,546.
- Xaloy Incorporated: *See*—
Saltzman, Gilbert A., 3,658,515.
- Xatron Corporation: *See*—
Kelso, James W., 3,672,289.
- Xebec Corporation: *See*—
Gess, Larry C., 3,653,176.
- Xenakis, James A.: *See*—
Zechnowitz, Alvin L.; and Xenakis, James A., 3,662,332.
- Xenakis, James A.; Zechnowitz, Alvin L.; and Strazzulla, Raymond L., to Sperry Rand Corporation. Automatic terminal bridge control system. 3,683,440, 8-15-72, Cl. 14-71,000.
- Xenon Corporation: *See*—
Dewey, Clarence Forbes, Jr., 3,697,889.
- Xercon, Inc., *mesne*: *See*—
Myer, Clifford E., 3,676,685.
- Myers, Clifford E., 3,679,906.
- Xerox Corporation: *See*—
Abreu, Christian O.; Bernhard, John S.; and Chiavaroli, Henry T., 3,654,654.
- Adamek, John A.; Draugelis, Vaidevutis C.; and Oriel, George J., 3,635,553.
- Adams, James E.; and Haas, Werner E. L., 3,669,525.
- Adams, James E.; Leder, Lewis B.; and Haas, Werner E. L., 3,679,290.
- Adams, James E.; and Leder, Lewis B., 3,697,152.
- Agliata, Thomas P., 3,655,284.
- Amidon, Alan B.; and Mammino, Joseph, 3,652,319.
- Amidon, Alan B.; Sankus, Joseph G.; Petruzzella, Nicholas L.; and Ewing, Joan R., 3,664,834.
- Anderson, Harold M., 3,668,332.
- Andrus, Paul G., 3,696,785.
- Artelt, Herbert C., Jr., 3,652,001.
- Artelt, Herbert C., Jr., 3,679,300.
- Aser, Gilbert A.; and Sullivan, William A., 3,687,541.
- Baller, Ernst O.; Crandell, Melvin G.; Pease, Donald L.; and Witinski, Francis D., 3,674,363.
- Bauer, George T., 3,672,759.
- Baxter, Carlton J.; and Volkers, S. William, 3,650,617.
- Becker, Gunter E., 3,640,406.
- Becker, Gunter E., 3,687,445.
- Behringer, Arthur J., 3,694,201.
- Bell, George E., 3,651,933.
- Benson, Marshall, 3,696,784.
- Bhagat, Gopal C., 3,694,073.
- Bhagat, Gopal C.; and Randall, John M., 3,697,170.
- Bhagat, Gopal C.; and May, Joseph N., 3,707,418.
- Bickmore, John T., 3,641,980.
- Blackert, John E.; and Towers, Harvey S., 3,652,157.
- Bocek, Robert P., 3,685,015.
- Brach, Paul J.; and Six, Hugh A., 3,657,272.
- Britt, James E.; and Hewitt, Robert E., 3,670,700.
- Britt, James L.; and Hewitt, Robert E., 3,687,270.
- Brock, John L., 3,673,603.
- Cade, Ronald L.; and Vince, Michael A., 3,646,910.
- Cade, Ronald L., 3,648,901.
- Cade, Ronald L.; and Volkers, Stewart William, 3,649,262.
- Cade, Ronald L.; and Volkers, Stewart W., 3,682,538.
- Caldwell, John P., 3,640,707.
- Campbell, Albert Evan, Jr.; and Jensen, Andrew O., 3,666,429.

- Carreira, Leonard M.; and Tulagin, Vsevolod, 3,655,370.
- Carreira, Leonard M., 3,696,020.
- Case, Raymond D.; Maloney, Thomas O.; and Warren, Larry H., 3,689,143.
- Cassano, James R.; Smith, Charles E.; and Kalvitis, Robert E., 3,640,614.
- Chen, Philip L., 3,677,148.
- Chen, Philip L.; and Paradyz, Louis F., 3,678,820.
- Chen, Philip L., 3,685,406.
- Ciccarelli, Roger N.; and Jacknow, Burton B., 3,672,883.
- Ciccarelli, Roger N., 3,676,313.
- Ciuffini, Anthony J., 3,635,705.
- Ciuffini, Anthony J., 3,684,500.
- Clark, Harold E., 3,693,517.
- Clark, Harold E., 3,697,160.
- Clark, Harold Ernst, 3,661,454.
- Clemens, Carl F.; and Barker, Thomas B., 3,702,303.
- Connolly, Douglas P.; and Poehelein, Raymond E., 3,690,176.
- Culligan, Robert L., 3,685,897.
- Damouth, David E., 3,673,600.
- Davidson, James R., 3,642,363.
- Davies, Terence J., 3,655,550.
- Davis, Robert A., 3,668,963.
- De Clerck, Robert D.; and Smith, Glenn D., 3,689,915.
- Dewhurst, Peter B., 3,705,013.
- Doi, Yoshikazu; and Honda, Yasuo, 3,672,748.
- Dolcimascolo, Charles; Hoffman, Daniel S.; Jones, Hugh L.; and Mercik, James E., 3,702,482.
- Donalies, Daniel J., 3,664,297.
- Donalies, Daniel J., 3,685,486.
- Donohue, James M.; and Gerbasi, Dennis P., 3,654,901.
- Egnaczak, Raymond K.; and Squassoni, Gino F., 3,640,616.
- Egnaczak, Raymond K., 3,642,364.
- Egnaczak, Raymond K.; and Squassoni, Gino F., 3,642,365.
- Egnaczak, Raymond K.; and Squassoni, Gino F., 3,644,035.
- Egnaczak, Raymond K., 3,645,616.
- Egnaczak, Raymond K.; and Squassoni, Gino F., 3,647,290.
- Egnaczak, Raymond K., 3,647,294.
- Egnaczak, Raymond K.; Myers, Charles H.; and Zawadzki, Edward A., 3,656,847.
- Egnaczak, Raymond K.; and Squassoni, Gino F., 3,658,687.
- Egnaczak, Raymond K., 3,659,302.
- Egnaczak, Raymond K., 3,673,632.
- Egnaczak, Raymond K., 3,687,109.
- Egnaczak, Raymond K., 3,695,755.
- Egnaczak, Raymond K., 3,702,289.
- Egnaczak, Raymond K., 3,705,766.
- Fantuzzo, Joseph; and Punnett, Frazer D., 3,671,118.
- Fantuzzo, Joseph, 3,696,783.
- Fantuzzo, Joseph, 3,702,483.
- Files, Victor A., 3,707,371.
- Fisher, Donald J.; and Severynse, Gerard T., 3,655,373.
- Fisher, Donald J.; and Davies, Robert G., 3,657,103.
- Flint, Thomas J., 3,645,770.
- Forest, Edward, 3,657,091.
- Fowler, Reginald Henry, 3,643,263.
- Galen, Joseph J., 3,685,989.
- Gerace, Paul L.; and Wolff, Nikolaus E., 3,672,979.
- Gerbasi, Dennis P.; and Donohue, James M., 3,641,979.
- Gerbasi, Dennis P., 3,660,863.
- Goffe, William L., 3,645,729.
- Goffe, William L., 3,656,990.
- Goffe, William L., 3,671,282.
- Goffe, William L., 3,707,391.
- Gonzalez, Ricardo A., 3,685,898.
- Green, Charles J., Jr., 3,635,789.
- Greenfield, Stephen J.; Howard, Anthony; and Knapp, Lowell W., 3,697,063.
- Gregory, Paul M., 3,695,757.
- Gundlach, Robert W., 3,639,224.
- Gundlach, Robert W.; Lot, Leon C.; and Snelling, Christopher, 3,642,598.
- Gundlach, Robert W., 3,648,607.
- Gundlach, Robert W.; and Wells, John B., 3,653,892.
- Gundlach, Robert W., 3,655,379.
- Gundlach, Robert W., 3,663,396.
- Gundlach, Robert W., 3,676,215.
- Gundlach, Robert W., 3,678,850.
- Gundlach, Robert W., 3,682,628.
- Gundlach, Robert W.; and Rhodes, Warren L., 3,682,677.
- Gundlach, Robert W.; and Vock, Richard C., 3,703,376.
- Gunther, Wolfgang H. H., 3,671,467.
- Haas, Werner E. L., 3,640,746.
- Haas, Werner E. L.; Adams, James E.; Becker, James H.; and Wysocki, Joseph J., 3,655,971.
- Haas, Werner E. L.; and Adams, James E., 3,671,231.
- Haas, Werner E. L.; Adams, James E., Jr.; and Flannery, John B., Jr., 3,680,950.
- Haas, Werner E. L.; Adams, James E.; and Flannery, John B., Jr., 3,687,515.
- Haas, Werner Erwin Louis; Adams, James E.; Flannery, John B., Jr.; and Mechlowitz, Bela, 3,666,947.
- Haas, Werner Erwin Louis; Adams, James Ewing; and Mechlowitz, Bela, 3,671,237.
- Hagenbach, Robert J., 3,658,500.
- Hagenbach, Robert Joseph, 3,685,113.
- Halvorsen, Ivar N.; and Marshall, George E., 3,642,376.
- Hamaker, Ralph A.; and Zucker, Edwin, 3,697,167.
- Hayne, Thomas F.; and Whited, Charles A., 3,684,890.
- Heeks, Robert E.; and Sullivan, Donald P., 3,660,100.
- Heurtley, John C., 3,687,535.
- Heurtley, John C., 3,698,893.
- Heurtley, John Crampton, 3,698,892.
- Hewes, Ellsworth D.; and Kaupp, Norbett H., 3,661,452.
- Hewitt, Robert E., 3,651,784.
- Hewitt, Robert E., 3,667,427.
- Hewitt, Robert E., 3,678,896.
- Hewitt, Robert E., 3,678,897.
- Hoffman, Sanford G.; Jackson, Earl V.; Starkweather, Gary K.; and Zucker, Edwin, 3,703,335.
- Holliday, Robert G., 3,633,761.
- Holliday, Robert G., 3,701,495.
- Holliday, Robert G., 3,705,436.
- Honjo, Satoru, 3,682,631.
- Houston, Robert D., 3,671,776.
- Howell, Richard S., 3,683,406.
- Howell, Richard S.; and Brunner, Robert V., 3,686,676.
- Hoyt, Hazen L., III, 3,650,620.
- Hubbard, Leo J., 3,660,208.
- Huber, Charles L., 3,677,633.
- Hudson, Frederick W., 3,641,977.
- Hudson, Frederick W., 3,641,981.
- Hudson, Frederick W., 3,650,616.
- Hudson, Frederick W., 3,662,711.
- Hutner, Mark A.; Polit, Neil A.; Watson, Donald W.; and Artelt, Herbert C., Jr., 3,700,324.
- Jacknow, Burton B.; and Moriconi, Joseph H., 3,653,893.
- Jelfo, Raymond L., 3,664,941.
- Jelfo, Raymond L., 3,692,517.
- Jeromin, Lothar S.; and Hoyt, Hazen L., III, 3,640,246.
- Jones, Freeman B.; and Labana, Santokh S., 3,658,675.
- Jones, Freeman B., Jr., 3,652,438.
- Jones, Hugh L.; and Marshall, George E., 3,642,371.
- Jordan, William E., 3,664,204.
- Jordan, William E., 3,694,068.
- Jordan, William E., 3,697,163.
- Jordan, William E., 3,698,540.
- Joseph, Robert John, 3,664,300.
- Kamola, Roman C., 3,667,742.
- Kamola, Roman C., 3,682,132.
- Kamola, Roman C.; Vince, Michael A.; Gundlach, Robert W.; and Gunther, Kenneth W., 3,704,524.
- Kaupp, Norbett H., 3,685,896.
- Keller, Carol K.; Royka, Stephen F.; and Snelling, Christopher, 3,647,659.
- Klavsons, Uldis; Perun, William D.; Stoops, Denzel D.; and Terry, David M., 3,638,613.
- Koning, Virgil H., 3,702,447.
- Krohn, Ivar T.; Page, Geoffrey A.; and Reinis, Gedeminas J., 3,655,372.
- Krohn, Ivar T.; Page, Geoffrey A.; and Reinis, Gedeminas J., 3,676,116.
- Krohn, Ivar T.; and Page, Geoffrey A., 3,692,516.
- Kuhl, James E.; and Witinski, Francis D., 3,635,373.
- Kukucka, William P.; and Summers, James E., 3,652,875.
- La Cagnina, John M.; and Davies, Robert G., 3,697,407.
- La Chance, Murdock H., 3,703,306.
- Lahr, Roy J., 3,648,387.
- Lahr, Roy J.; and Cassano, James R., 3,652,156.
- Lancia, Fredrick N.; and Miller, Gerald L., 3,645,618.
- Lees, Harold D.; Evans, Paul F.; Maltz, Martin S.; and Vipond, Edward W., 3,692,659.
- Lehmbeck, Donald R., 3,697,184.
- Leiga, Algird G., 3,648,133.
- Levy, Mortimer; and Augustini, Peter P., 3,653,885.
- Lewis, William G.; Moorhusen, Robert W.; and Nagel, Richard H., 3,650,621.
- Little, William S., Jr., 3,650,604.
- Little, William S., Jr., 3,650,605.
- Little, William S., Jr., 3,686,974.
- Little, William S., Jr.; Lennon, John H.; and Urbach, John C., 3,689,267.
- Little, William S., Jr.; and Townsend, Robert H., 3,703,459.
- Luebbe, Ray H., Jr.; and Carreira, Leonard M., 3,645,883.
- Luebbe, Ray H., Jr.; and Byrne, John F., 3,653,889.
- Lunning, Raymond A.; and Mercer, Francis T., 3,672,760.
- Lyles, James M.; Hewitt, Robert E.; Hilt, Glenn L.; and Britt, James E., 3,638,610.
- Lynch, Thomas; and Shah, Dineshchandra S., 3,655,033.
- Macclaren, Robert H., 3,645,048.

Madrid, Robert William, 3,655,375.
 Madrid, Robert William; and Hagenbach, Robert Joseph, 3,672,928.
 Maksymiak, John; Beach, Kenneth M., Jr.; and Smith, James W., 3,697,169.
 Maksymiak, John; and Hart, Lawrence M., 3,703,157.
 Maksymiak, John; and Smith, James W., 3,707,389.
 Mamino, Joseph, 3,656,948.
 Mammino, Joseph; and Ferguson, Robert M., 3,640,710.
 Mammino, Joseph, 3,672,886.
 Mammino, Joseph; and Jvrbis, Gail D., 3,677,750.
 Mammino, Joseph; and Amidon, Alan B., 3,692,520.
 Mammino, Joseph, 3,697,263.
 Marshall, George E.; Perno, Bartholomew J.; and Stokes, Robert G., 3,685,905.
 Masetta, Joseph P., 3,706,488.
 Mason, Lawrence J.; Simpson, George R.; Paradysz, Louis F.; and Chen, Philip L., 3,670,633.
 Mason, Lawrence J.; and Paradysz, Louis F., 3,695,161.
 Matsumoto, Seiji; Tamai, Yasuo; and Sto, Masamichi, 3,671,290.
 Matsumoto, Seiji; Tamai Yasuo; Takimoto, Masaaki; and Sato, Masamichi, 3,672,887.
 Matsumoto, Seiji; Sato, Masamichi; and Fukushima, Osamu, 3,678,350.
 Matsumoto, Seiji, 3,687,538.
 Mc Pherson, Donald F., 3,647,207.
 Mc Pherson, Donald F., 3,664,663.
 McCrobie, George L., 3,659,922.
 McGuire, John V., 3,641,319.
 McGuire, John V.; and Watson, Donald W., 3,647,602.
 McGuire, John V.; Watson, Donald W.; Enskat, Albert G.; and Artelt, Herbert C., Jr., 3,661,453.
 Mechlowitz, Bela; Adams, James E.; and Haas, Werner Erwin Louis, 3,666,948.
 Menz, Elsie L., 3,658,519.
 Mihajlov, Vsevolod S.; and Carreira, Leonard M., 3,705,797.
 Monahan, Alan R., 3,635,708.
 Moorhusen, Robert W., 3,687,545.
 Moriconi, Joseph H.; Palermi, Frank M.; and Jacknow, Burton B., 3,681,107.
 Morse, Philip, 3,647,713.
 Mott, George R.; and Van Wagner, Edward M., 3,676,118.
 Mueller, Daniel L., 3,642,362.
 Mutschler, Edward Charles, 3,659,556.
 Nielander, William B., 3,640,248.
 Norian, Roger F.; and Koning, Virgil H., 3,668,414.
 Ono, Tsuneyoshi, 3,701,250.
 Palermi, Frank M.; and Chatterji, Arun K., 3,655,374.
 Parker, Delmer G., 3,650,619.
 Perreault, Donald A., 3,659,207.
 Pitasi, Carl R.; and Young, Eugene F., 3,633,543.
 Pitasi, Carl R., 3,665,891.
 Polit, Neil A.; and Enskat, Albert G., 3,705,719.
 Quant, Donald J., 3,693,581.
 Rees, James D., 3,705,543.
 Reinis, Gedeminas J.; and Tulagin, Vsevolod, 3,692,518.
 Reynolds, Robert W.; Bibeau, James K.; and Jansen, Francis J., 3,669,072.
 Rhodes, Warren L.; and Marquart, Vernon L., 3,639,049.
 Riley, Bernard J., Jr., 3,656,200.
 Riley, Bernard J., Jr., 3,686,035.
 Robbins, Neal R.; Ring, Howard Daniel; Wright, Gerard C.; Ceelen, Theodore M.; and Hotchkiss, Stuart E., 3,686,678.
 Robinson, Bruce R., 3,662,884.
 Rod, Trygve R.; and Evans, Thomas S., 3,687,347.
 Roth, Charles F., Jr.; and Butler, Gordon C., 3,682,137.
 Royka, Stephen F., 3,661,118.
 Royka, Stephen F., 3,663,291.
 Rueckwald, Ronald F., 3,648,657.
 Sato, Masamichi; and Fukushima, Osamu, 3,642,471.
 Sato, Masamichi; Tamai, Yasuo; Matsumoto, Seiji; and Honjo, Satoru, 3,642,515.
 Sato, Masamichi; and Takahashi, Isoji, 3,649,830.
 Sato, Masamichi; and Matsumoto, Seiji, 3,687,661.
 Sato, Masamichi; and Takahashi, Isoji, 3,689,767.
 Schaeffer, Robert A., 3,640,615.
 Schenk, Richard C., 3,649,006.
 Schmidlin, Fred W., 3,684,364.
 Schneider, John M.; and Lennon, John, 3,688,107.
 Seachman, Ned Jay, 3,667,036.
 Sechak, Ronald P., 3,655,377.
 Severynse, Gerard T., 3,668,008.
 Severynse, Gerard T., 3,697,408.
 Sheridan, Nicholas K., 3,661,438.
 Sheridan, Nicholas K., 3,680,945.
 Shuey, David R., 3,652,791.
 Shuey, David R., 3,686,666.
 Shuey, David R.; and Norian, Roger F., 3,700,990.
 Silverberg, Morton, 3,674,475.
 Silverberg, Morton, 3,675,011.

Sliva, Philip O.; and Dir, Gary A., 3,673,572.
 Smith, Carl E., 3,669,066.
 Smith, Richard E., 3,667,428.
 Smith, Richard E., 3,695,756.
 Smith, William A., 3,690,756.
 Smura, Edwin J., 3,681,777.
 Snelling, Christopher, 3,638,110.
 Snelling, Christopher, 3,639,120.
 Snelling, Christopher, 3,681,221.
 Sokolov, David A., 3,690,252.
 Solarek, Thomas W., 3,692,402.
 Spear, Merton R., Jr., 3,639,053.
 Spear, Merton R., Jr., 3,645,615.
 Stange, Klaus K.; and Robinson, Thomas K., Jr., 3,644,930.
 Stange, Klaus K., 3,686,679.
 Stange, Klaus K., 3,687,106.
 Stanley, Michael R., 3,697,050.
 Starr, Arthur T.; and Edwards, David G., 3,670,269.
 Starr, Arthur T.; and David, Edwards G., 3,706,054.
 Stehl, George; and November, Daniel, 3,688,415.
 Stein, Ira S.; Tulagin, Vsevolod; and Mihajlov, Vsevolod S., 3,634,221.
 Stokes, David Roth; Latone, Salvatore; and Jordan, William E., 3,702,131.
 Stover, Raymond W., 3,685,488.
 Suda, Katsuhide, 3,704,881.
 Sullivan, William A., 3,634,077.
 Sullivan, William A., 3,697,171.
 Sullivan, William A., Jr., 3,707,390.
 Takimoto, Masaaki; Sato, Masamichi; and Honjo, Satoru, 3,655,966.
 Tamai, Yasuo; Osada, Chiaki; Ono, Hisatake; and Honjo, Satoru, 3,660,086.
 Teuscher, Leon A.; Trubisky, Michael P.; Palermi, Frank M.; and Levine, Charles J., 3,697,265.
 Thettu, Raghulunga Reddy, 3,649,992.
 Thourson, Thomas L.; and Hauser, Oscar G., 3,653,891.
 Ticknor, Raymond G., 3,694,712.
 Till, Henry R.; and Watson, Percy K., 3,666,472.
 Trubisky, Michael P.; Teuscher, Leon A.; Palermi, Frank M.; and Levine, Charles J., 3,634,134.
 Tsilibes, George N., 3,635,196.
 Tulagin, Vsevolod; and Carreira, Leonard M., 3,649,515.
 Tulagin, Vsevolod, 3,667,945.
 Tulagin, Vsevolod, 3,669,872.
 Turner, Lyman H., 3,649,447.
 Turner, Lyman H.; and Manzek, Rhinehart A., 3,669,447.
 Turner, Lyman H.; and Adamek, John A., 3,671,094.
 Turner, Lyman H.; and Kukucka, William P., 3,682,328.
 Turner, Lyman H.; Kukucka, William P.; and Summers, James E., 3,685,712.
 Turner, Lyman H.; Kukucka, William P.; and Summers, James E., 3,690,537.
 Turner, Lyman H., 3,692,403.
 Urbach, John C., 3,655,257.
 Urbanek, Edwin A., 3,690,754.
 Vlach, John J.; Baker, James B.; Burnham, Edward H.; Lavander, Edward J.; and Schluntz, Gary L., 3,649,114.
 Volkers, Stewart W., 3,648,991.
 Volkers, Stewart W., 3,650,618.
 Vora, Kishure N., 3,687,448.
 Wagner, John W., 3,655,183.
 Walkup, Lewis E.; and Jones, Rexford W., 3,638,567.
 Warren, Larry H., 3,655,281.
 Watson, Donald W., 3,641,313.
 Watson, Donald W., 3,654,040.
 Weigl, John W., 3,649,117.
 Weigl, John W., 3,684,362.
 Weigl, John W., 3,697,409.
 Weigl, John W., 3,698,807.
 Weikel, Donald J., Jr., 3,647,292.
 Weiler, Ernest A., 3,632,370.
 Weiler, Ernest A., 3,633,544.
 Weiler, Ernest A.; and Hudson, Fredrick W., 3,638,611.
 Weiler, Ernest A., 3,670,701.
 Weiler, Ernest A. H., 3,636,924.
 Weiler, Ernest A. H., 3,648,658.
 Weinberger, Lester, 3,635,981.
 Weinberger, Lester, 3,667,943.
 Weinberger, Lester, 3,667,944.
 Weinberger, Lester, 3,705,901.
 Wells, John B., 3,645,874.
 Wells, John B., 3,647,660.
 Wharton, Armistead, 3,667,842.
 Wilmes, Raymond A., 3,674,352.
 Wood, Charles; Schottmiller, John C.; and Roy, Rustum, 3,653,376.
 Wysocki, Joseph J.; Adams, James E.; Becker, James H.; Madrid, Robert W.; and Haas, Werner E. L., 3,652,148.
 Wysocki, Joseph J., 3,697,150.

Wysocki, Joseph J.; Adams, James E.; and Madrid, Robert W., 3,704,056.
 Wysocki, Joseph J.; Adams, James E.; and Madrid, Robert W., 3,642,348.
 Yang, Frank Y., 3,654,900.
 Yeh, Shu-Hsiung, 3,681,064.
 Young, Eugene F.; and Rogers, Ryland F., 3,638,614.
 Young, Eugene F., 3,640,249.
 Young, Eugene F., 3,704,066.
 Young, James E., 3,642,377.
 Zoppoth, Raymond C., 3,655,280.
 Zucker, Edwin, 3,642,606.
 Xerox Corporation, mesne: See—
 Bryer, Philip Stuart, 3,643,242.
 Campbell, Frank A., 3,644,659.
 DuVall, Wilbur E., 3,699,555.
 Mayer, Edward F., 3,672,884.
 Xerox Data Systems, Inc.: See—
 Potter, Gene Barrack; and Reeder, Ronald Holt, 3,688,127.
 Xetca, Inc.: See—
 Bruckner, Samuel R., 3,706,249.
 Xodar Corporation: See—
 Snow, John F.; and Clough, Roy L., Jr., 3,664,647.
 Xomox Corporation: See—
 Reeves, Henry V., 3,688,645.
 Smith, Russell G.; Sonderman, William G.; and Templin, Paul D., 3,661,171.
 Smith, Russell G., 3,679,060.
 Smith, Russell G., 3,703,910.
 Walchle, David L.; and Schmidt, Peter J., 3,670,071.
 Walchle, David L.; Smith, Russell G.; and Geraci, James L., 3,698,791.
 Xonics Inc.: See—
 Proudan, Andrew Peter; and Balser, Martin, 3,671,927.
 Yabana, Yakamori, to Kabushiki Kaisha Suwa Sieksha. Bezel, crystal and case assembly in a water-proof watch. 3,688,492, 9-5-72, Cl. 58-91.000.
 Yabe, Seizo: See—
 Ayano, Satoshi; and Yabe, Seizo, 3,660,536.
 Yablonsky, Harvey A., to Bristol-Myers Company. Thioglycerol-nitrogen base molecular complex depilatory compositions. 3,686,296, 8-22-72, Cl. 260-534.00s.
 Yablonsky, Stanislav Valerievich: See—
 Vagin, Alexei Alexeevich; Yablonsky, Stanislav Valerievich; Voloshin, Petr Stepanovich; Sharov, Nikolai Grigorievich; Shiborin, Viktor Ivanovich; Novakovsky, Vladimir Efimovich; Kolpakov, Grigory Vasilievich; Ivanov, Mark Efremovich; Lindin, Viktor Mikhailovich; and Lipsky, Daniil Yakovlevich, 3,700,364.
 Yabu, Toshiomi: See—
 Yano, Osahiko; Nakamura, Takahiro; and Yabu, Toshiomi, 3,665,098.
 Yabuki, Takashi: See—
 Oishi, Asao; Yabuki, Takashi; and Morigutt, Kazuo, 3,636,360.
 Yabuta, Keiichi, to Nissan Motor Company, Limited. Vehicular hydraulic brake system. 3,663,067, 5-16-72, Cl. 393-6.
 Yabuta, Shiro: See—
 Umeno, Masashi; Yabuta, Shiro; and Nishida, Takashi, 3,638,230.
 Yabuta, Yukio, to Fuji Photo Film Co., Ltd. Electromagnetic induction type feeding and positioning method and apparatus for metal plates. 3,662,635, 5-16-72, Cl. 83-23.
 Yabuta, Yukio, to Fuji Photo Film Co., Ltd. Electromagnetic eddy current induction type conveying method. 3,675,757, 7-11-72, Cl. 198-41.000.
 Yabuta, Yukio, to Fuji Photo Film Co., Ltd. Method of and apparatus for cutting a metal web utilizing an electro-magnetic induction type feeding apparatus. 3,688,619, 9-5-72, Cl. 83-35.000.
 Yabuuchi, Hiroshi: See—
 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, 3,635,924.
 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; Yabuuchi, Hiroshi; and Takao, Hiroyoshi, 3,647,753.
 Nakaguchi, Kohei; Kawasumi, Shohanchi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, 3,647,771.
 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; Yabuuchi, Hiroshi; and Takao, Hiroyoshi, 3,671,492.
 Nakaguchi, Kohei; Kawasumi, Shohachi; Hirooka, Masaaki; and Yabuuchi, Hiroshi, 3,700,647.
 Yackish, Thomas M.: See—
 Rezek, John R.; and Yackish, Thomas M., 3,644,757.
 Yacowitz, Harold, to Amburgo Company, Incorporated. The. Chicken feed composition containing fly ash for weight gain. 3,657,423, 4-18-72, Cl. 424-127.
 Yada, Yukio: See—
 Mizushima, Kyohei; and Yada, Yukio, 3,688,384.
 Yadowsky, Slawko: See—
 Stefanucci, Arthur; and Yadowsky, Slawko, 3,682,647.
 Stefanucci, Arthur; and Yadowsky, Slawko, 3,700,462.
 Yaeger, Luther L.: See—
 Allen, Gordon H.; Hosack, Robert C.; Schoening, Werner P.; and Yaeger, Luther L., 3,633,533.
 Yaffe, Beverly Ruth: See—
 Swanson, Raymond W.; and Yaffe, Marvin M., 3,661,420.
 Yaffe, Marvin M.: See—
 Swanson, Raymond W.; and Yaffe, Marvin M., 3,661,420.
 Yagasaki, Masaaki: See—
 Muto, Masataro; Yagasaki, Masaaki; and Hosumi, Ken, 3,633,896.
 Muto, Masataro; and Yagasaki, Masaaki, 3,648,993.
 Yager, Billy P.: See—
 Adams, Anthony L.; Yearsley, Gerald A.; Simmons, Marion I.; and Yager, Billy P., 3,641,660.
 Yagi, Eiichi: See—
 Tamate, Tokutaro; Yagi, Eiichi; and Ikeda, Hisayuki, 3,677,925.
 Yagi, Eiichi; Kojima, Kenko; Ikeda, Hisayuki; Yauchi, Shiro; Shimizu, Tsutomu; Tamalate, Tokutaro; and Ikegawa, Hiroyuki, to Kabushikaisha Yokogawa Denki Susakusho (Yokogawa) Electric Works, Ltd. Liquid characteristic measuring instrument. 3,680,841, 8-1-7, Cl. 259-1.00r.
 Yagi, Hajime: See—
 Matsuhita, Takeshi; and Yagi, Hajime, 3,686,684.
 Yagi, Hajime, to Sony Corporation. Field effect transistor. 3,663,873, 5-16-72, Cl. 317-235.
 Yagi, Hiroshi: See—
 Ohnishi, Toshiaki; Suzuki, Takamitsu; Takahashi, Akio; Yagi, Hiroshi; and Ohya, Shunichi, 3,688,549.
 Yagi, Motoi; and Kawamura, Yoshihisa, to Tokyo Shibaura Electric Co., Ltd. Method of manufacturing a magnetic head. 3,648,361, 3-14-72, Cl. 29-603.
 Yagi, Norio: See—
 Fukuoka, Ichiro; Takahashi, Satoshi; and Yagi, Norio, 3,700,645.
 Yagi, Syuho: See—
 Terasawa, Nobuo; Yagi, Syuho; Yanaga, Yoichiro; and Kiritani, Toyotaro, 3,636,736.
 Yagi, Yoshiharu; Kobayashi, Akira; and Hirata, Itsuro, to Sumitomo Chemical Company, Ltd. Zero valent nickel complexes and preparation thereof. 3,651,065, 3-21-72, Cl. 260-270.
 Yagi, Yoshiharu; Kobayashi, Akira; Hirata, Itsuro; and Sato, Hiroshi, to Sumitomo Chemicals Company, Ltd. Process for producing butadiene polymer. 3,681,315, 8-1-72, Cl. 260-94.300.
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 Yagi, Yoshimasa: See—
 Nagoshi, Kazuhiro; and Yagi, Yoshimasa, 3,642,555.
 Yagi, Yoshiyuki: See—
 Watanabe, Hideo; and Yagi, Yoshiyuki, 3,689,414.
 Yagi, Yuji: See—
 Fujikake, Kenji; Mutoh, Norio; and Yagi, Yuji, 3,691,833.
 Yagishita, Aisaburo. Heating and concentrating tower for plating waste recovery unit. 3,640,331, 2-8-72, Cl. 159-23.
 Yaguchi, Frank S. Hand-held multi-purpose tool. 3,688,139, 8-29-72, Cl. 310-50.000.
 Yaguchi, Shoichiro: See—
 Kitagawa, Tadashi; Yaguchi, Shoichiro; Yamanobe, Katsuyuki; and Kawamata, Masao, 3,696,316.
 Yagupov, Igor Nikolaevich: See—
 Artemenko, Anatoly Ivanovich; Geshtenkern, Rafail Yakovlevich; and Yagupov, Igor Nikolaevich, 3,683,902.
 Yagupov, Ivan Nikolaevich: See—
 Khrenov, Konstantin Konstantinovich; Gursky, Pavel Ivanovich; Shulman, Grigory Alexandrovich; Klimenko, Gennady Alexeevich; Kirdo, Ivan Viktorovich; Dmitrenko, Georgy Viktorovich; Yagupov, Ivan Nikolaevich; Tsyrlin, Mark Irmovich; Novikov, Anatoly Petrovich; and Puzov, Filimon Efimovich, 3,688,382.
 Yagusic, George J.: See—
 Reynolds, Andrew C., Jr.; Carragan, John F.; and Yagusic, George J., 3,651,458.
 Yagyu, Shigeyuki: See—
 Matsubara, Mitio; Yagyu, Shigeyuki; and Takeuchi, Satoru, 3,674,533.
 Yahagi, Masakichi: See—
 Orita, Michio; and Yahagi, Masakichi, 3,642,514.
 Orita, Michio; Yahagi, Masakichi; Enomoto, Chohji; Obitu, Takeo; and Tohyama, Takafumi, 3,649,649.
 Yahata, Shuichi: See—
 Shimoda, Tsunezo; Hikawa, Koji; Yahata, Shuichi; and Obata, Mitsugu, 3,650,614.
 Yahiro, Seinosuke: See—
 Watanabe, Akinori; Takahashi, Yoshinori; Yahiro, Seinosuke; and Watanabe, Kikuo, 3,707,206.
 Yaida, Koichi; and Ano, Shizuya, to Omron Tateisi Electronics Co. Credit card system having means for sensing if object is living. 3,639,905, 2-1-72, Cl. 340-149.
 Yajima, Mikiharu: See—
 Sasakura, Tadao; and Yajima, Mikiharu, 3,657,410.
 Yajima, Ryoichiro: See—
 Mamiya, Shigeo; and Yajima, Ryoichiro, 3,671,913.

- Yakahata, Hisatoshi: *See*—
Yoshimura, Hirofumi; and Yakahata, Hisatoshi, 3,673,415.
- Yaker, Charles: *See*—
Ingalls, John E.; and Yaker, Charles, 3,669,177.
- Yakimenko, Leonid Markovich: *See*—
Adaev, Evgeny Ivanovich; Blinov, Alexander Vasilievich; Kamaria, Georgy Mikirtychevich; Alexandrovich, Novoselov Viktor; and Yakimenko, Leonid Markovich, 3,685,121.
- Yakimovich, Viktor Yakovlevich: *See*—
Berlin, Zalman Leivikovich; Bagrov, Oleg Nikolaevich; Maslovsky, Gennady Vasilievich; Serkov, Anatoly Gavrilovich; and Yakimovich, Viktor Yakovlevich, 3,673,988.
- Yaklich, John A. Furrow extending attachments for tractors. 3,675,723, 7-11-72, Cl. 172-100.000.
- Yako, Tadaaki: *See*—
Ichiki, Eiichi; Inoue, Yasuhiko; Kondo, Yoshihiro; and Yako, Tadaaki, 3,657,299.
- Yakobson, Ana Semenovna: *See*—
Esterzon, Mikhail Abramovich; Kozyrev, Jury Georgievich; and Yakobson, Mikhail Osipovich, 3,636,747.
- Yakobson, Mikhail Osipovich: *See*—
Esterzon, Mikhail Abramovich; Kozyrev, Jury Georgievich; and Yakobson, Mikhail Osipovich, 3,636,747.
- Yakovlev, Anatoly Alexeevich: *See*—
Kestner, Olga Evgenievna; Frolov, Alexei Sergeevich; Vinokurov, Vasily Ivanovich; Trofimov, Mikhail Georgievich; Kostechko, Roza Fedorovna; Pryanov, Valentin Nikiforovich; Golovkin, Jury Ivanovich; Abakumov, Vladimir Borisovich; Shagurin, Anatoly Alexeevich Lotarev, Vladimir Alexeevich; Yakovlev, Anatoly Alexeevich; Popov, Vyacheslav Sergeevich; and Nagorskaya, Zinaida Sergeevich, 3,684,537.
- Yakovlev, Evgeny Nikolaevich: *See*—
Vereschagin, Leonid Fedorovich; Yakovlev, Evgeny Nikolaevich; Konyayev, Jury Sergeevich; Polyakov, Evgeny Valentinovich; Novikov, Albert Pavlovich; Bakul, Valentin Nikolaevich; Skripko, Gely Fomich; and Tsylin, Nekhemian Veniaminovich, 3,694,177.
- Yakovlev, Pavel Borisovich: *See*—
Brukovsky, Igor Pavlovich; Yakovlev, Pavel Borisovich; Gutterman, Kirill Davidovich; Perov, Alexandr Vasilievich; Zhukov, Vladimir Fedorovich; Nekrasova, Larisa Petrovna; and Ivanovsky, Jury Dmitrievich, 3,689,798.
- Yakovleva, Antonina Karpovna: *See*—
Menyailo, Anatoly Tikhonovich; Pospelov, Mikhail Valerievich; Kaliko, Olga Romanovna; Pokrovskaya, Inna Evgenievna; Fedorova, Valentine Vsevolodovna; Shilnikova, Albina Georgievna; Yakovleva, Antonina Karpovna; and Narozhenko, Tamara Georgievna, 3,664,810.
- Yakovleva, Maria Alexandrovna: *See*—
Aslanova, Margarita Semenovna; and Yakovleva, Maria Alexandrovna, 3,639,113.
- Yakovleva, Nadezhda Evgenievna: *See*—
Geshelin, Boris Mikhailovich; Maximov, Mikhail Mikhailovich; Rozenberg, Maxim Davidovich; and Yakovleva, Nadezhda Evgenievna, 3,686,491.
- Yakubowski, Carl, to International Business Machines Corporation. Air slides. 3,706,475, 12-19-72, Cl. 302-14.000.
- Yalamanchili, Krishna Rao: *See*—
Halley, James W.; Grimes, Donald E.; Mills, Norman T.; and Yalamanchili, Krishna Rao, 3,649,249.
- Halley, James W.; Grimes, Donald E.; Mills, Norman T.; and Yalamanchili, Krishna Rao, 3,704,744.
- Yale, Harry L.; and Bernstein, Jack, to Squibb, E. R., & Sons, Inc. Dibenzooxazepines and dibenzothiazepines. 3,657,275, 4-18-72, Cl. 260-327.
- Yale, Harry Louis; and Pluscec, Jelka, to Squibb, E. R., & Sons, Inc. Process for preparing formamides. 3,644,378, 2-22-72, Cl. 260-294.8.
- Yale, Harry Louis, to Squibb, E. R., & Sons, Inc. Inhalation anesthetic. 3,666,866, 5-30-72, Cl. 424-350.
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- Yale, Harry Louis; and Petigara, Ramesh, to Squibb, E. R., & Sons, Inc. Carboxylated dibenzoxazepines and dibenzothiazepines. 3,702,852, 11-14-72, Cl. 260-327.00b.
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- Yale, Ramon L.: *See*—
Mathers, James E.; Mikus, Felix F.; and Yale, Ramon L., 3,653,816.
- Yale, Ramon L., to Sylvania Electric Products, Inc. Rare earth oxide phosphors containing alkali metal silicates and germanates. 3,650,975, 3-21-72, Cl. 252-301.4.
- Yamabe, Masahiro: *See*—
Matsui, Masao; Tokura, Susumu; and Yamabe, Masahiro, 3,639,556.
- Matsui, Masao; Tokura, Susumu; and Yamabe, Masahiro, 3,681,189.
- Matsui, Masao; and Yamabe, Masahiro, 3,684,647.
- Matsui, Masao; Tokura, Susumu; and Yamabe, Masahiro, 3,700,545.
- Matsui, Maso; Utsuhara, Yutaka; Yamabe, Masahiro; and Tokura, Susuma, 3,672,802.
- Yamabe, Masahiro, to Hitachi, Ltd. Francis type runner. 3,639,080, 2-1-72, Cl. 416-186.
- Yamabe, Shigeru; Shimizu, Masanao; and Yamamoto, Tadatsugu, to Dainippon Pharmaceutical Co., Ltd. 4-Nitropyrrole-2-carboxylic acid amide derivatives. 3,697,514, 10-10-72, Cl. 260-240.00g.
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- Yamada, Akemichi: *See*—
Owen, James Neal; Moberly, Raymond Ronald; Martin, Edwin J., Jr.; Yamada, Akemichi; and Thomas, Edmund C., 3,675,162.
- Yamada, Asahiro. Intermittent driving mechanism for timepiece. 3,645,089, 2-29-72, Cl. 58-28.
- Yamada, Eiichi; Arakawa, Yoshiteru; Yamamoto, Masayuki; and Nagatomb, Hiroto, to Hitachi, Ltd. Apparatus for forming films. 3,641,974, 2-15-72, Cl. 118-48.
- Yamada, Eiji; Hamaguchi, Kunimasa; and Akamatsu, Takashi, to Sumitomo Chemical Company, Ltd. Process for the production of an anthraquinone disperse dye. 3,636,008, 1-18-72, Cl. 260-380.
- Yamada, Eiji; Yamaguchi, Kiichiro; and Akamatsu, Takashi, to Sumitomo Chemical Company, Ltd. Naphthostyryl type disperse dyes. 3,649,645, 3-14-72, Cl. 260-326.62.
- Yamada, Hayatoshi: *See*—
Yoshi, Masateru Kuni; Yamada, Hayatoshi; Fukasawa, Katsumi; and Tamura, Yoshiaki, 3,696,278.
- Yamada, Hideo: *See*—
Kataoka, Shoei; Tateno, Hiroshi; Fujisada, Hiroyuki; Kawashima, Mitsuo; Komamiya, Yasuo; and Yamada, Hideo, 3,691,481.
- Yamada, Hiraku: *See*—
Matsuda, Shogo; Shimodoi, Yutaka; Yamada, Hiraku; and Takao, Kiyoshi, 3,644,081.
- Yamada, Hiroshi: *See*—
Hori, Kikuo; Yamada, Hiroshi; and Itoh, Hiroshi, 3,695,529.
- Sanjo, Sadao; Yamada Hiroshi; and Gono, Yoshio, 3,701,608.
- Ushiyama, Rintaro; Sugino, Osakazu; Sato, Shui; Sakamoto, Eiichi; Yamada, Hiroshi; and Kikuchi, Shoji, 3,706,563.
- Yamada, Hiroshi, to Kabushiki Kaisha Ricoh. Automatic cartridge tape threading device. 3,704,836, 12-5-72, Cl. 242-192.000.
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- Yamada, Ikuo: *See*—
Mitsui, Tsuneo; Baba, Jun-Ichi; and Yamada, Ikuo, 3,675,002.
- Yamada, Isao, to Kabushiki Kaisha Musashino Kagaku Kenkyujo. Process for the production of triallyl cyanurate. 3,635,969, 1-18-72, Cl. 260-248.
- Yamada, Jun: *See*—
Arai, Tadashi; Asano, Kiro; and Yamada, Jun, 3,702,054.
- Yamada, Junji: *See*—
Kurokawa, Takaaki; Yamada, Junji; and Wada, Makoto, 3,667,927.
- Yamada, Junzo: *See*—
Shirane, Yasuhio; and Yamada, Junzo, 3,701,397.
- Yamada, Katsuhiko: *See*—
Ogiso, Mitsutoshi; and Yamada, Katsuhiko, 3,704,656.
- Yamada, Katsuo, to Nissan Motor Company, Limited. Composite fluid pressure governor. 3,683,950, 8-15-72, Cl. 137-54.000.
- Yamada, Katsuo, to Nissan Motor Company, Limited. Parking brake for automatic transmission. 3,690,416, 9-12-72, Cl. 188-69.000.
- Yamada, Kazumi: *See*—
Nagamatsu, Takeo; Yamada, Yusaku; and Yamada, Kazumi, 3,678,498.
- Yamada, Kazuo: *See*—
Hasebe, Takefumi; and Yamada, Kazuo, 3,693,180.
- Yamada, Keisho; Nagai, Shigeki; Odan, Kyoji; Nakamura, Yasuo; and Hidaka, Mikio, to Ube Industries, Ltd. Process for the manufacture of acrylonitrile by ammoxidation. 3,636,066, 1-18-72, Cl. 260-465.3.
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- Yamada, Kenji: *See*—
Aoyama, Ryozo; Koiwai, Akira; and Yamada, Kenji, 3,654,758.

- Ito, Mikiji; Yamada, Kenji; and Noda, Kazuo, 3,654,763.
- Yamada, Kiyoshi, to Matsushita Electric Works, Ltd. Electromagnetic contactor. 3,651,437, 3-21-72, Cl. 335-131.
- Yamada, Koichiro: *See*—
Hohsho, Yukio; Yamada, Koichiro; Oyama, Yoshishige; Teranishi, Takao; and Suzuki, Seikou, 3,669,423.
- Yamada, Kozo: *See*—
Fujii, Saburo; Saji, Yasuo; Yamada, Kozo; Makita, Zenji; and Ikegami, Shigeru, 3,689,621.
- Yamada, Masayuki: *See*—
Yamano, Togo; Henmi, Teruji; Usui, Yoshiro; Noda, Etsunosuke; and Yamada, Masayuki, 3,705,246.
- Yamada Masuho: *See*—
Takagi, Koichi; and Yamada Masuho, 3,682,470.
- Yamada, Minoru: *See*—
Mise, Noritoshi; Yamada, Minoru; and Nishino, Ken-Ichi, 3,637,573.
- Yamada, Naojiro. Flash light. 3,705,983, 12-12-72, Cl. 240-10.600.
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- Yamada, Odawara: *See*—
Akashi, Goro; and Yamada, Odawara, 3,689,317.
- Yamada, Seibi; and Asada, Reizo, to Teijin Limited. Spinning chimney. 3,650,645, 3-21-72, Cl. 425-71.
- Yamada, Seibi; and Asada, Yoshiharu, to Teijin Limited. Apparatus for drying polyester particles. 3,661,330, 5-9-72, Cl. 241-65.
- Yamada, Seibi; and Takizawa, Haruki, to Teijin Limited. Melt-spinning apparatus. 3,669,584, 6-13-72, Cl. 18-8.
- Yamada, Shigeki: *See*—
Chibata, Ichiro; Yamada, Shigeki; and Yamamoto, Masao, 3,660,474.
- Yamada, Shigeki; Miyazawa, Kokichi; Naka, Hideaki; and Yoshida, Yoshio, to Ishihara Sangyo Kaisha, Ltd. Process for the preparation of titanium dioxide concentrates. 3,660,078, 5-2-72, Cl. 75-101.
- Yamada, Shinichi: *See*—
Kigane, Koji; Yamada, Shinichi; and Koga, Kazuo, 3,687,715.
- Yamada, Shizuo; Ono, Isao; Abe, Hiroyuki; Kunihiro, Nobuko; and Tago, Kazuo, to Toyo Soda Manufacturing Co., Ltd. Process for dimerization or co-dimerization of α -olefin. 3,686,350, 8-22-72, Cl. 260-683.15d.
- Yamada, Shoji; and Kawaguchi, Yoshiaki, to Yazaki Corporation. Multi-terminal connector unit. 3,688,243, 8-29-72, Cl. 339-49.00r.
- Yamada, Shozo: *See*—
Oshima, Keiji; Yamada, Shozo; Sakurai, Fujio; Iwasa, Yoshisuke; Horiuchi, Koichi; Uchida, Unosuke; Nomura, Teruhiko; and Tomimaga, Yasushi, 3,699,203.
- Yamada, Susumu. Device for cleaning exhaust gas from internal combustion engine. 3,698,875, 10-17-72, Cl. 23-288.00f.
- Yamada, Tadashi: *See*—
Kuwata, Tsutomu; Nagato, Syoichi; and Yamada, Tadashi, 3,637,761.
- Yamashita, Akio; and Yamada, Tadashi, 3,665,262.
- Yamada, Takayasu: *See*—
Takahashi, Shogo; Yamada, Takayasu; and Okudaira, Hiromi, 3,703,365.
- Yamada, Takeo, to Nippon Kogaku K.K. Device for driving camera shutter curtains. 3,672,282, 6-27-72, Cl. 95-57.000.
- Yamada, Takeo; and Ono, Shigeo, to Nippon Kogaku K.K. Memory circuit of an electric shutter. 3,693,518, 9-26-72, Cl. 95-10.0ct.
- Yamada, Tatsuya: *See*—
Honma, Tsutomu; Yamada, Tatsuya; Kawashima, Toshihide; Amano, Hideo; Mizuguchi, Mamoru; Inomata, Suekichi; Oguchi, Toshihiko; Nakano, Hiroshi; Nagata, Jiro; Takao, Shuji; Nishihar Takao; Sudo, Takao; and Tomita, Teiji, 3,696,717.
- Yamada, Tetsuya: *See*—
Hino, Hiroyuki; Asakuno, Hiroyoshi; and Yamada, Tetsuya, 3,678,545.
- Inoue, Toru; Yamada, Tetsuya; and Noguichi, Seizo, 3,669,639.
- Yamada, Yasuo: *See*—
Kishino, Shigeo; Yamada, Yasuo; Kudamatsu, Akio; Sumi, Shozo; and Shiokawa, Kozo, 3,683,053.
- Kishino, Shigeo; Shiokawa, Kozo; Kudamatsu, Akio; and Yamada, Yasuo, 3,689,603.
- Nara, Kizo; Sukekawa, Izumi; and Yamada, Yasuo, 3,696,656.
- Schrader, Gerhard; Scheinplugg, Hans; Jung, Herbert F.; Kuyama, Shimpei; Kishino, Shigeo; and Yamada, Yasuo, 3,705,241.
- Yamada, Yasuo. Pneumatic cleaning apparatus for textile machinery. 3,678,965, 7-25-72, Cl. 139-1.00c.
- Yamada, Yasuo, to Farbenfabriken Bayer Aktiengesellschaft. Synergistic fungicide composition containing phosphorodithiolate derivatives. 3,683,081, 8-8-72, Cl. 424-225.000.
- Yamada, Yasutsugu: *See*—
Shiro, Teruo; Takinami, Koichi; Akutsu, Eiichi; Yoshii, Hiroe; and Yamada, Yasutsugu, 3,704,205.
- Yamada, Yasuyuki: *See*—
Akashi, Goro; and Yamada, Yasuyuki, 3,634,137.
- Yamada, Yoshiharu: *See*—
Nagai, Kazuko; and Yamada, Yoshiharu, 3,654,100.
- Yamada, Yoshihiko: *See*—
Makino, Katsuo; Yamada, Yoshihiko; and Onozaki, Jun, 3,704,121.
- Yamada, Yoshihiro. Photographic printer with automatic exposure control. 3,650,624, 3-21-72, Cl. 355-69.
- Yamada, Yoshikazu; and Garland, Thomas H., to Bell & Howell Company. Positive-mode photographic process and composition. 3,650,755, 3-21-72, Cl. 96-90.
- Yamada, Yoshikazu; Sund, Joseph Tat-Hin; and Logue, Daniel R., to Bell & Howell Company. Thermal transfer sheet. 3,706,276, 12-19-72, Cl. 101-453.000.
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- Yamada, Yusaku: *See*—
Nagamatsu, Takeo; Yamada, Yusaku; and Yamada, Kazumi, 3,678,498.
- Yamada, Yuzo: *See*—
Nabeta, Saburo; Yamada, Yuzo; and Ito, Itsuya, 3,706,779.
- Yamada, Tadaaki; Kishida, Tadao; Konishi, Hiroshi; and Inaba, Yoshinari, to Nissan Motor Company, Limited. Windshield wipers for vehicles. 3,673,631, 7-4-72, Cl. 15-250.420.
- Yamafuji, Kaoru: *See*—
Mitani, Masao; Aihara, Katzuzo; Kudo, Mitsuhiro; Hara, Nobuhiro; Irie, Fujio; and Yamafuji, Kaoru, 3,697,826.
- Yamaga, Kanshi: *See*—
Mimura, Akio; Kawano, Takatsugu; and Yamaga, Kanshi, 3,660,278.
- Yamagata, Akinori: *See*—
Mukai, Hisakazu; Kindo, Hideaki; Sugahara, Yoshimasa; and Yamagata, Akinori, 3,648,064.
- Yamagata, Kiyoshi; Matsuura, Kiyoshi; Ito, Toshio; Miyamoto, Toshio; and Wada, Yuichi, to Mitsubishi Denki Kabushiki Kaisha. Self-restoring current limiter. 3,644,860, 2-22-72, Cl. 337-21.
- Yamagata, Masayuki: *See*—
Tanaka, Ikuzo; Uehara, Hideo; and Yamagata, Masayuki, 3,637,839.
- Yamagata, Seichi; Sakai, Masaaki; Matsubara, Toshimoto; and Yamashita, Shigeji, to Toray Industries, Inc. Apparatus and method for manufacturing a fluffy yarn. 3,645,080, 2-29-72, Cl. 57-34.
- Yamagata, Shoichi: *See*—
Mori, Eiji; Numasawa, Tadasuke; Iwata, Kouichi; Yamagata, Shoichi; Ishimori, Akira; and Hanai, Hiromi, 3,637,657.
- Yamagisawa, Yoshinari: *See*—
Kimoto, Koji; and Yamagisawa, Yoshinari, 3,694,535.
- Yamagishi, Akio: *See*—
Shima, Takesaburo; Yamagishi, Akio; Sada, Masao; Osaki, Bonji; and Yamamoto, Zenichi, 3,636,098.
- Shima, Takesaburo; Yamagishi, Akio; Sada, Masao; Yamamoto, Zenichi; and Shiozaki, Hasunaga, 3,668,221.
- Yamagishi, Akio; Ishida, Takaharu; Aono, Yukinaga; and Kondo, Shigekatsu, to Sumitomo Chemical Company Ltd. Method for inhibiting the polymerization of unsaturated carboxylic acid esters. 3,636,086, 1-18-72, Cl. 260-486.
- Yamagishi, Akio; and Matumoto, Genya, to Sumitomo Chemical Company, Ltd. Process for producing urea. 3,666,807, 5-30-72, Cl. 260-555.00a.
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- Yamagishi, Hidehisa; Gunji, Naoki; and Takeuchi, Masao, to Nippon Kokan Kabushiki Kaisha. Method of treating tin plate or galvanized sheet. 3,647,650, 3-7-72, Cl. 204-35.
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Kawakami, Kiminari; and Yamagishi, Shizunao, 3,681,057.

Yamagishi, Yasuo: *See—*
Takagi, Haruo; and Yamagishi, Yasuo, 3,687,585.

Yamaguchi, Akiyuki: *See—*
Tsunoo, Shigeru; Horisaka, Kazuyoshi; Yamaguchi, Akiyuki; Adachi, Kikuo; and Umezawa, Osamu, 3,658,966.

Yamaguchi, Fumio: *See—*
Kawamura, Susumu; and Yamaguchi, Fumio, 3,645,761.

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Naya, Mikio; Yamaguchi, Haruki; and Horie, Izumi, 3,672,217.

Yamaguchi, Hiroshi: *See—*
Kikuchi, Tomio; Yamaguchi, Hiroshi; and Arai, Kiyoyuki, 3,698,298.

Yamaguchi, Hiroshi, to Sanyo Electric Co., Ltd. and Tottori Sanyo Electric Co., Ltd. Apparatus for indicating numerical information. 3,646,544, 2-29-72, Cl. 340-324.

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Shiraiwa, Toshio; Yamaguchi, Hisao; and Kido, Yasunori, 3,662,590.

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Haga, Teruhide; Yamaguchi, Hisashi; and Hirao, Yotaro, 3,671,255.

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Iwasaki, Koichiro; Yamaguchi, Kazuo; Kakogawa, Genjiro; Ohtsuka, Yasuo; and Kasahara, Kanji, 3,642,748.

Iwasaki, Koichiro; Yamaguchi, Kazuo; Kimura, Harutaka; Hasuo, Masayoshi; and Tanaka, Toru, 3,674,764.

Yamaguchi, Keiki: *See—*
Sugiyama, Takashi; Kurata, Satoshi; and Yamaguchi, Keiki, 3,636,458.

Yamaguchi, Ken: *See—*
Tanaka, Katsunobu; Kimura, Kazuo; and Yamaguchi, Ken, 3,642,576.

Tanaka, Katsunobu; Kimura, Kazuo; and Yamaguchi, Ken, 3,691,012.

Yamaguchi, Kenjo: *See—*
Kimura, Hiroshi; Nambu, Takeshi; Inoue, Kiyoshi; Imahori, Yoshiyuki; Yamaguchi, Kenjo; and Umeno, Kyojo, 3,692,384.

Yamaguchi, Kiichiro: *See—*
Yamada, Eiji; Yamaguchi, Kiichiro; and Akamatsu, Takashi, 3,649,645.

Yamaguchi, Koretaka; Toyomoto, Kazuo; and Sakamoto, Kuniaki, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing rubbery polymers. 3,700,755, 10-24-72, Cl. 260-879.000.

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Nishida, Hideko; Yamaguchi, Kunihiro; Kumasaka, Noriyuki; Sugita, Yutaka; and Fujiwara, Hideo, 3,673,581.

Yamaguchi, Mario: *See—*
Tanaka, Tetsuo; Masumura, Masao; Toguchi, Akihiro; and Yamaguchi, Mario, 3,671,507.

Yamaguchi, Masaru: *See—*
Ito, Yoshio; Katayama, Hajime; Yamaguchi, Masaru; and Nitan-da, Hiroshi, 3,684,363.

Ito, Yoshio; Katayama, Hajime; and Yamaguchi, Masaru, 3,689,146.

Yamaguchi, Muneaki: *See—*
Takahashi, Hiroshi; Tanabe, Masanori; Yamaguchi, Muneaki; and Shihara, Isao, 3,644,548.

Yamaguchi, Nario: *See—*
Kundo, Kishichiro; Iwata, Hiroo; Yamaguchi, Nario; Shimizu, Sakae; and Tubuko, Kazuo, 3,640,709.

Tubuko, Kazuo; Yamaguchi, Nario; and Shimizu, Sakae, 3,649,263.

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Oba, Harutaro; Sawazu, Toshihiko; Takeuchi, Sugio; and Yamaguchi, Norio, 3,677,464.

Yamaguchi, Shunzo; and Tanaka, Eizi, to Nippondenso Kabushiki Kaisha. Heat exchanger with rotary heat accumulator. 3,688,835, 9-5-72, Cl. 165-8.000.

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Kurihara, Osamu; Kuramoto, Naoya; Kamiyoshi, Masaya; and Yamaguchi, Takeshi, 3,697,310.

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Mase, Takehisa; Kawaura, Hiroshi; Yamaguchi, Terumoto; and Amano, Yosinao, 3,655,142.

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Nishiyama, Akira; Yoshino, Hirokazu; Yoshida, Tomio; and Yamaguchi, Tetsuo, 3,638,196.

Yamaguchi, Tomio: *See—*
Fujimura, Tsutomu; Kamata, Hiroshi; Yamaguchi, Tomio; and Fukue, Hisanobu, 3,636,441.

Shigematsu, Hiroji; Yamaguchi, Tomio; Fukue, Hisanobu; Ogawa, Hiroshi; Hashimoto, Takashi; Murakoshi, Kenichi; Suguri, Susumu; and Fujimura, Tsutomu, 3,699,436.

Yamaguchi, Tomomi: *See—*
Watanabe, Shigeo; and Yamaguchi, Tomomi, 3,657,032.

Yamaguchi, Toshiyuki: *See—*
Takeda, Chuzo; Kojima, Yoshihiro; Yamaguchi, Toshiyuki; and Ariyama, Yasuo, 3,639,865.

Yamaguchi, Tsuneo: *See—*
Naito, Han-ichiro; and Yamaguchi, Tsuneo, 3,648,241.

Yamaguchi, Tsutomu: *See—*
Abe, Jinnosuke; Watanabe, Tetsuo; Miyauchi, Kango; Yamaguchi, Tsutomu; Nito, Toshiharu; and Muroya, Noriyuki, 3,649,455.

Kitajima, Masao; Yamaguchi, Tsutomu; Kondo, Asaji; and Mur-cya, Noriyuki, 3,691,090.

Yamaguchi, Tutomu: *See—*
Tashiro, Hiroji; and Yamaguchi, Tutomu, 3,704,229.

Yamaguchi, Yasuji; and Nakayama, Yujiro, to Mitsubishi Petrochemical Co., Ltd. Production of wood-plastics composite structures. 3,704,161, 11-28-72, Cl. 117-148.000.

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Yamaha Hatsudoki Kabushiki Kaisha: *See—*
Kawamura, Katsuhiko, 3,665,781.

Nomura, Kazuhiko, 3,687,118.

Yamamoto, Hiroshi, 3,698,368.

Yamaha, Mashio: *See—*
Eguchi, Fusatoshi; Okamoto, Sohei; Yamaha, Mashio; Matsu-moto, Nobuo; and Yokoyama, Minoru, 3,703,963.

Yamahata, Achihiro: *See—*
Tanekusa, Toshimi; Takasawa, Hideaki; and Yamahata, Achihiro, 3,679,626.

Yamaji, Keizo: *See—*
Inoue, Eiichi; Yamaji, Keizo; Tanaka, Hiroshi; and Saito, Takashi, 3,653,064.

Inoue, Eiichi; Yamaji, Keizo; Tanaka, Hiroshi; and Saito, Takashi, 3,673,595.

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Yamaji, Kenkichi: *See—*
Tanaka, Eiichiro; Fukuda, Takeji; Yamaji, Kenkichi; Miyake, Yasuhiko; Ota, Hiroshi; and Kimura, Katsuo, 3,646,796.

Yamajima, Kaneo, to Kabushiki Kaisha. Weighing machine. 3,655,003, 4-11-72, Cl. 177-173.

Yamaka, Biko; Karube, Norio; and Akiyama, Masakazu, to Matsushita Electric Industrial Co., Ltd. Mirror means for laser structures. 3,660,776, 5-2-72, Cl. 331-94.5.

Yamaka, Eiso, to Matsushita Electric Industrial Co., Ltd. Infrared intensity detector using a pyroelectric polymer. 3,707,695, 12-26-72, Cl. 338-18.000.

Yamakawa, Fujio: *See—*

Kobayashi, Seihin; Torii, Michihiro; and Yamakawa, Fujio, 3,675,222.

Yamakawa, Hitoshi: *See—*
Umahashi, Minoru; Yamakawa, Hitoshi; and Suzuki, Motoyuki, 3,690,015.

Yamakawa, Kiyoshi: *See—*
Sasaki, Osamu; and Yamakawa, Kiyoshi, 3,635,473.

Yamakawa, Tyoji: *See—*
Hattori, Kenichi; Yamakawa, Tyoji; and Tuji, Akitoshi, 3,686,133.

Yamakita, Koiti: *See—*
Kunishi, Takeshi; Kawade, Yoshihiro; Yamakita, Koiti; Takaki, Ryozo; and Yamanaka, Katuhiro, 3,635,305.

Yamamoto, Akihiro: *See—*
Kono, Toyoo; Wada, Sakae; Shiba, Motoharu; Matsuno, Takashi; Yamamoto, Akihiro; Ogawa, Haruki; Okazaki, Hiroshi; Suzuki, Shigeo; and Noto, Takao, 3,632,746.

Yamamoto, Akinori: *See—*
Tsuda, Yoshizo; Yamamoto, Akinori; and Ikeda, Kozyuro, 3,649,602.

Tsuda, Yoshizo; Yamamoto, Akinori; and Ikeda, Kozyuro, 3,649,603.

Tsuda, Yoshizo; Yamamoto, Akinori; and Tanimura, Masamitsu, 3,652,509.

Tsuda, Yoshizo; and Yamamoto, Akinori, 3,696,074.

Yamamoto, Akio: *See—*
Shigemori, Hideto; and Yamamoto, Akio, 3,652,833.

Shigemori, Hideto; and Yamamoto, Akio, 3,652,834.

Yamamoto, Akira: *See—*
Takasu, Itaru; Sasaki, Takaaki; and Yamamoto, Akira, 3,703,541.

Yoshikawa, Shinsuke; Yamamoto, Akira; and Kumasaka, Masashi, 3,662,053.

Yamamoto, Akira; and Mori, Keiichi, to Teijin Limited. Method of washing polyamide producing apparatus. 3,653,964, 4-4-72, Cl. 134-42.

Yamamoto, Akira; Miyako, Toyoharu; and Maeda, Kiyoshi, to Mitsubishi Petrochemical Co., Ltd. Process for purification of polymer solution. 3,663,727, 5-16-72, Cl. 260-80.78.

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Yamamoto, Atsushi; Omori, Tairiku; and Yasui, Hiroshi, to Hyowa Hakko Kogyo Co., Ltd. Process for demethoxylation by microorganisms. 3,647,629, 3-7-72, Cl. 195-30.

Yamamoto, Etsuo: *See—*
Kominam, Naoya; Tamura, Nobuhiro; and Yamamoto, Etsuo, 3,689,583.

Yamamoto, Hajime: *See—*
Kano, Tsuyoshi; Otomo, Yoshiro; and Yamamoto, Hajime, 3,655,577.

Yamamoto, Haruhiko, to France Bed Co., Ltd. Method for manufacturing mattresses. 3,643,308, 2-22-72, Cl. 29-91.1.

Yamamoto, Harunori: *See—*
Kodama, Makoto; and Yamamoto, Harunori, 3,638,953.

Yamamoto, Hideaki: *See—*
Kurihara, Shigeru; Yamazaki, Tamotsu; Yamamoto, Hideaki; and Yokozato, Junichi, 3,635,416.

Yamashita, Keizo; Yokozato, Junichi; and Yamamoto, Hideaki, 3,688,675.

Yamamoto, Hideaki, to Zenga Bronica Kogyo Kabushiki Kaisha. Combined mechanism of shutter and film in a camera. 3,699,863, 10-24-72, Cl. 95-31.0ac.

Yamamoto, Hideki: *See—*
Kozawa, Shichibei; and Yamamoto, Hideki, 3,659,946.

Yamamoto, Hideo; and Watanabe, Teruji, to Kokusai Denshin Denwa Kabushiki Kaisha. Logical system detectable of fault of any logical element therein. 3,652,988, 3-28-72, Cl. 340-146.1.

Yamamoto, Hideo, to Canon Kabushiki Kaisha. Electronic printer. 3,678,193, 7-18-72, Cl. 178-18.000.

Yamamoto, Hirohiko; and Shiraishi, Masamichi, to Nippon Electric Company, Limited. Self-sealing face-down bonded semiconductor device. 3,657,610, 4-18-72, Cl. 317-234.

Yamamoto, Hirohiko; and Shiraishi, Masamichi, to Nippon Electric Company, Limited. Inverter circuit. 3,668,424, 6-6-72, Cl. 307-214.000.

Yamamoto, Hiroichi: *See—*
Nakazawa, Koiti; Shibata, Motoo; Higashide, Eiji; Kanzaki, Toshihiko; Yamamoto, Hiroichi; Miyake, Akira; Ueyanagi, Jisaburo; and Iwasaki, Hidesuke, 3,655,879.

Shibata, Motoo; Yamamoto, Hiroichi; Higashide, Eiji; Mizuno, Komei; Imanishi, Mashiko; and Miyake, Akira, 3,678,161.

Yamamoto, Hiroichi; Suzuki, Takashi; Higashide, Eiji; Fugono, Takeshi; and Mizuno, Komei, to Takeda Chemical Industries, Ltd. Method for producing monoacyl derivatives of antibiotic T-2636C. 3,676,300, 7-11-72, Cl. 195-29.000.

Yamamoto, Hiroki: *See—*
Tajima, Shigeru; Kobayashi, Katsumi; Fukuhara, Hiroshi; Yamamoto, Hiroki; and Ura, Shigeru, 3,652,583.

Yamamoto, Hiroshi: *See—*
Nakatani, Taro; Nishimoto, Masaki; Segawa, Hiromi; and Yamamoto, Hiroshi, 3,660,836.

Shogo, Shimizu; Motose, Takami; Yamazaki, Syu; Komatsu, Michiyasu; and Yamamoto, Hiroshi, 3,661,536.

Yamamoto, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Magnet alloys. 3,661,567, 5-9-72, Cl. 75-134.00m.

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Yamamoto, Hiroya: *See—*
Uda, Kiminori; Yamamoto, Hiroya; Kasuga, Naotaru; and Fujiyoshi, Kenji, 3,663,325.

Yamamoto, Hiroyuki: *See—*
Nakao, Osakazu; Nakagawa, Saburo; Hirose, Juichi; Yamazaki, Shigeyuki; Amano, Takashi; Nakamura, Toshio; and Yamamoto, Hiroyuki, 3,658,735.

Nakao, Osakazu; Nakagawa, Saburo; Hirose, Juichi; Yamazaki, Shigeyuki; Amano, Takashi; Nakamura, Toshio; and Yamamoto, Hiroyuki, 3,669,916.

Yamamoto, Hisao: *See—*
Arasaki, Seitetsu; Yamamoto, Hisao; and Inaba, Shigeo, 3,647,785.

Hirohashi, Toshiyuki; Izumi, Takahiro; and Yamamoto, Hisao, 3,676,460.

Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Yamamoto, Hisao, 3,666,643.

Inaba, Shigeo; Akatsu, Mitsuhiro; and Yamamoto, Hisao, 3,674,808.

Kaneko, Shin-ichi; Takahashi, Kei; and Yamamoto, Hisao, 3,705,153.

Moriyama, Hiroaki; Yamamoto, Hisao; Nagata, Hideo; and Tamaki, Toshio, 3,634,433.

Okamoto, Tadashi; Kobayashi, Tsuyoshi; and Yamamoto, Hisao, 3,669,960.

Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, to Sumitomo Chemical Company, Ltd. Method for producing benzodiazepine derivatives. 3,632,73, 1-4-72, Cl. 260-239.3.

Yamamoto, Hisao; Inaba, Shigeo; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, to Sumitomo Chemical Company, Ltd. Process for producing benzodiazepine. 3,632,574, 1-4-72 Cl. 260-239.3.

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Takumi, Kenji; Yamamoto, Hisashi; and Ikegami, Hidetsugu, 3,681,599.
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Miyahara, Akimitsu; Fujita, Minoru; Yamamoto, Isao; and Katamura, Tamako, 3,661,775.
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Yasui, Koichi; Yamamoto, Kazuo; Itami, Kazuo; Fujisawa, Kiyoshi; and Sakai, Toshio, 3,671,279.
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Watanabe, Hiroo; Yamamoto, Koosuke; Abe, Takeshi; and Kawamata, Motoo, 3,695,830.
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- Yamamoto, Kumeo: See—
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- Yamamoto, Kunimitsu: See—
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- Yamamoto, Makoto: See—
Nakamura, Tadahisa; Fujimoto, Hirozi; Yamamoto, Makoto; and Shintomi, Yukito, 3,673,363.
- Yamamoto, Manabu: See—
Morikawa, Takashi; Higake, Sotomatsu; Sumi, Mitsugu; Urifu, Tohoru; and Yamamoto, Manabu, 3,696,605.
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- Yamamoto, Masaki: See—
Tanaka, Katsunobu; Ohshima, Kazuo; Kimura, Kazuo; and Yamamoto, Masaki, 3,639,210.
- Yamamoto, Masao: See—
Chibata, Ichiro; Yamada, Shigeki; and Yamamoto, Masao, 3,660,474.
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Inaba, Shigeho; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Yamamoto, Hisao, 3,666,643.
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- Yamamoto, Hisao; Inaba, Shigeho; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,632,574.
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- Yamamoto, Hisao; Inaba, Shigeho; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; Kobayashi, Tsuyoshi; and Izumi, Takahiro, 3,702,321.
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- Yamamoto, Mitsuru: See—
Levene, Martin Lewis; and Yamamoto, Mitsuru, 3,672,763.
- Yamamoto, Mizuo: See—
Fujisawa, Tamotsu; Yamamoto, Mizuo; and Tsuchihashi, Genichi, 3,678,115.
- Yamamoto, Noboru: See—
Oishi, Kazuo; Kurebayashi, Tokuhiko; Ando, Noriyoshi; Yamamoto, Noboru; and Yoshida, Hiroshi, 3,660,689.

- Oishi, Kazuo; Kurebayashi, Tokuhiko; Ando, Noriyoshi; Yamamoto, Noboru; and Yoshida, Hiroshi, 3,677,253.
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Nakatsuka, Kazuo; Ide, Fumio; Ito, Kazuo; and Yamamoto, Norimasa, 3,644,575.
- Yamamoto, Osamu, to Kabushikikaisha Aichidenkikosakusho. Can opener device. 3,673,682, 7-4-72, Cl. 30-4.00r.
- Yamamoto, Rokuro: See—
Sekiguchi, Takashi; Tokiura, Shohei; Ogihara, Sadahide; Yamamoto, Rokuro; and Ikeuchi, Akihiro, 3,638,824.
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Cusano, Carmen M.; Yamamoto, Roy I.; and Rubin, Isaac D., 3,691,261.
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Sato, Wasuke; Hatakeyama, Shigeyuki; Koide, Masashi; Yamamoto, Sadao; and Fujisawa, Mitsumaro, 3,700,523.
- Yamamoto, Setgoro: See—
Kato, Masao; Tanaka, Goro; and Yamamoto, Setgoro, 3,644,736.
- Yamamoto, Shigeo: See—
Kono, Reisaku; Yamamoto, Shigeo; and Yaoi, Hideaki, 3,655,872.
- Yamamoto, Shinichi: See—
Kohayakawa, Takashi; Yamamoto, Shinichi; and Morimoto, Michio, 3,698,873.
- Yamamoto, Shinji: See—
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,647,866.
- Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,662,000.
- Yamamoto, Shinji: See—
Takayanagi, Motowo; Sugiura, Shotaro; Matsuura, Tetsuro; Ueno, Haruo; Tsuji, Keichi; Yamamoto, Shinji; and Matsumoto, Fuminori, 3,644,585.
- Yamamoto, Shohei; Watanabe, Jun; Hosoi, Susumu; Kuwazaki, Masahiro; Ota, Akira; Takata, Toshikatsu; and Asaoka, Junichi, to Matsushita Electric Industrial Co., Ltd. Dry cell comprising a separator composed of three layers. 3,655,449, 4-11-72, Cl. 136-107.
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Hori, Shin; Inoue, Tomiyoshi; Yamamoto, Shozo; Tataru, Kazuo; Kitagawa, Masahiro; Watanabe, Masaru; Okada, Yukihiko; and Negishi, Naoki, 3,686,832.
- Yamamoto, Sigeo: See—
Fujinami, Akira; Horiuchi, Fukashi; Nodera, Katsuji; Ozaki, Toshiaki; Yamamoto, Sigeo; and Oishi, Tadashi, 3,636,044.
- Fujinami, Akira; Ozaki, Toshiaki; Horiuchi, Fukashi; Yamamoto, Sigeo; Akiba, Keiichi; Tanaka, Katsutoshi; Ooba, Shigehiro; Oishi, Tadashi; Nodera, Katsuji; and Kameda, Nobuyuki, 3,668,217.
- Sato, Katsumi; Nakamura, Takashi; Nakamura, Masaru; Hirasawa, Kazuo; Hamada, Mitsuo; Takahashi, Kenji; Yashima, Masaaki; Ozaki, Toshiaki; Yamamoto, Sigeo; Oishi, Tadashi; Fujinami, Akira; Horiuchi, Fukashi; and Nodera, Katsuji, 3,703,526.
- Tsuchiya, Hiroshi; Kunito, Nishinomiya-Shi; Kimura, Akio; Kawano, Suminori; Fujimoto, Keimei; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Tanaka, Katsutoshi; Oishi, Tadashi; and Takeda, Hisami, 3,670,057.
- Yamamoto, Syozo: See—
Nakao, Minoru; and Yamamoto, Syozo, 3,651,659.
- Yamamoto, Syunichi: See—
Horie, Tatsuo; Yamamoto, Syunichi; and Gotoh, Shinji, 3,705,204.
- Yamamoto, Tadaaki; and Kasai, Toshiyuki, to Nippon Kogaku K.K.; represented by Yutaka Sugi. Reflecting optical system capable of compensating for the variation in polarization mode. 3,675,986, 7-11-72, Cl. 350-157.
- Yamamoto, Tadaaki; and Kasai, Toshiyuki, to Nippon Kogaku K.K. Photoelectric polarization analyzer. 3,687,555, 8-29-72, Cl. 356-114.000.
- Yamamoto, Tadatsugu: See—
Yamabe, Shigeru; Shimizu, Masanao; and Yamamoto, Tadatsugu, 3,697,514.
- Yamamoto, Takaaki: See—
Matsumoto, Fumio; Wada, Toshiya; Yamamoto, Takaaki; Tanaka, Osamu; Takashima, Kunihide; and Takata, Toshihiko, 3,676,227.
- Sakakura, Akira; Yamamoto, Takaaki; Taguchi, Satoru; and Ueno, Kiyoshi, 3,632,456.
- Sakakura, Akira; Taguchi, Satoru; Wada, Toshiya; Ueno, Kiyoshi; Yamamoto, Takaaki; and Urushiyama, Nabuo, 3,636,579.
- Yamamoto, Takamitsu: See—
Miyake, Yuji; Kashiwara, Hideo; Takahashi, Kazuyoshi; Yamamoto, Takamitsu; and Mizukawa, Ziyun, 3,653,189.
- Yamamoto, Takashi: See—
Ikeda, Yoneichi; Takeda, Tsukasa; Hattori, Michio; Kiyomiya, Yutaka; and Yamamoto, Takashi, 3,694,322.
- Yamamoto, Takehiko: See—
Fukumoto, Juichiro; and Yamamoto, Takehiko, 3,661,716.
- Yamamoto, Tatsumi: See—
Schuler, Manfred; and Yamamoto, Tatsumi, 3,701,363.
- Yamamoto, Teruo: See—
Nagaki, Takehiro; and Yamamoto, Teruo, 3,705,396.
- Yamamoto, Tokio: See—
Jingu, Tomoyasu; and Yamamoto, Tokio, 3,654,776.
- Yamamoto, Toshiaki: See—
Tabuchi, Ichiro; Iwami, Akira; Harita, Yasuhiro; and Yamamoto, Toshiaki, 3,669,284.
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- Yamamoto, Toshihiko: See—
Iwama, Masakuni; Yamamoto, Toshihiko; Kasai, Keiji; Nakagawa, Yoshinobu; and Endo, Takaya, 3,649,285.
- Iwama, Masakuni; Fujiwara, Mitsuo; Kojima, Tamotsu; Imamura, Hiroyuki; and Yamamoto, Toshihiko, 3,658,545.
- Iwama, Masakuni; Fujiwara, Mitsuo; Kojima, Tamotsu; Takabe, Koichi; and Yamamoto, Toshihiko, 3,667,956.
- Iwama, Masakuni; Inoue, Isaburo; Fujiwara, Mitsuo; Hanazawa, Teruo; Kojima, Tamotsu; Yamamoto, Toshihiko; and Endo, Takaya, 3,684,514.
- Yamamoto, Toshiro: See—
Monma, Kaizo; and Yamamoto, Toshiro, 3,663,314.
- Yamamoto, Tsuyoshi: See—
Hatayama, Takefumi; Hamano, Yoshihiko; and Yamamoto, Tsuyoshi, 3,700,572.
- Yamamoto, Yoshio: See—
Morita, Katsuhiko; and Yamamoto, Yoshio, 3,676,995.
- Yamamoto, Yosizi: See—
Ishikawa, Toshio; and Yamamoto, Yosizi, 3,654,481.
- Yamamoto, Yukio, to Nissan Motor Company, Limited and Kanto Seiki Company, Limited. Steering locking device. 3,654,600, 4-4-72, Cl. 340-52.
- Yamamoto, Yukitsune: See—
Sakato, Yajiro; Ina, Kazuo; Yamamoto, Yukitsune; and Morishita, Harumi, 3,645,755.
- Yamamoto, Yuzuru: See—
Kaneko, Hidehiko; Yamamoto, Yuzuru; and Kon, Tatsuya, 3,681,408.
- Yamamoto, Zemichiro: See—
Nagahisa, Masanori; Kusaka, Yoshimi; Iino, Koji; and Yamamoto, Zemichiro, 3,681,276.
- Yamamoto, Zenichi: See—
Shima, Takesaburo; Yamagishi, Akio; Sada, Masao; Osaki, Bonji; and Yamamoto, Zenichi, 3,636,098.
- Shima, Takesaburo; Yamagishi, Akio; Sada, Masao; Yamamoto, Zenichi; and Shiozaki, Hasunaga, 3,668,221.
- Yamamura Glass Kabushiki Kaisha: See—
Okumura, Akihiro; and Izumi, Isao, 3,650,725.
- Yamamura, Isao: See—
Kinoshita, Shouzo; and Yamamura, Isao, 3,693,752.
- Yamamura, Katsumi; and Kasai, Masami, to Kabushiki Kaisha Suwa Seikosha. Method of hardening sintered cemented-carbide compositions by boronizing. 3,647,576, 3-7-72, Cl. 148-126.
- Yamamura, Katsumi; Harigaya, Hiroshi; Kasai, Kazutomo; and Asahina, Michio, to Kabushiki Kaisha Suwa Seikosha. Age hardening stainless steel. 3,677,744, 7-18-72, Cl. 75-128.00t.
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- Yamamura, Toshio: See—
Takahashi, Kenji; Yamamura, Toshio; Ono, Mitsuzo; and Eda, Korekiyo, 3,673,125.
- Yamamura, Yuichi; Yoshinaga, Tetsuo; Tsunoda, Kiyoshi; Tsutsumi, Yoshiatsu; and Hoji, Kazuhiko, to Daiichi Seiyaku Company Limited. Method for treating malaria. 3,636,208, 1-18-72, Cl. 424-229.
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- Yamamuro, Hiroshi, to Tokyo Shibaura Co., Ltd. Apparatus for measuring the dimensions of objects. 3,653,770, 4-4-72, Cl. 356-160.
- Yamamuro, Hiroshi; Kawase, Akira; and Sakai, Akio, to Tokyo Shibaura Electric Co., Ltd. Apparatus for measuring the dimensions of objects which includes a carrier which travels across the objects to be measured. 3,663,108, 5-16-72, Cl. 356-160.
- Yamana, Masaki, to Fuji Denki Seizo Kabushiki Kaisha. Polyphase transformer device whose taps are changeable when loaded. 3,652,925, 3-28-72, Cl. 323-43.5.
- Yamanaka, Akira, to Minolta Camera Kabushiki Kaisha. Continuous photographing system in a roll film camera. 3,672,278, 6-27-72, Cl. 95-31.0fm.
- Yamanaka, Einemi, to Cabin Kogyo Kabushiki Kaisha. Overhead projector. 3,653,754, 4-4-72, Cl. 356-61.
- Yamanaka, Hideki: *See—*
- Epstein, George; and Yamanaka, Hideki, 3,663,837.
- Yamanaka, Ichiro; and Okumura, Akihito, to Nihon Spindle Seizo Kabushiki Kaisha. Adjustable belt and pulley transmission. 3,705,517, 12-12-72, Cl. 74-230.17a.
- Yamanaka, Katuhiko: *See—*
- Kunishi, Takeshi; Kawade, Yoshihiro; Yamakita, Koiti; Takaki, Ryozo; and Yamanaka, Katuhiko, 3,635,305.
- Yamanaka, Masami; and Aga, Takashi, to Yamato Scale Company, Limited. Digital balance. 3,698,493, 10-17-72, Cl. 177-3.000.
- Yamanaka, Minoru: *See—*
- Kusama, Fumihiko; and Yamanaka, Minoru, 3,661,555.
- Yamanaka, Sadajiro, to Yugen Kaisha Yamanaka Seisakusho. Grinding apparatus. 3,665,648, 5-30-72, Cl. 51-134.000.
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- Yamanaka, Takanobu, to Nippon Pneumatic Manufacturing Company Limited. Impact air driven tool. 3,661,216, 5-9-72, Cl. 173-17.
- Yamanaka, Takashi; Miyauchi, Rinichi; Fujita, Hisaya; and Kaieda, Nobuo, to Yokogawa Electric Works, Ltd. Automatic balancing measuring meter. 3,704,415, 11-28-72, Cl. 324-99.00r.
- Yamanaka, Yoshiyuki: *See—*
- Ichikawa, Yataro; and Yamanaka, Yoshiyuki, 3,641,112.
- Yamane, Akira: *See—*
- Hirooka, Masaaki; Takeya, Kenji; Uno, Yoshihiro; Yamane, Akira; and Maruyama, Kunio, 3,692,754.
- Takeya, Kenji; Uno, Yoshihiro; and Yamane, Akira, 3,637,611.
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- Yamane, Mitsunori: *See—*
- Hayashi, Masayuki; and Yamane, Mitsunori, 3,651,438.
- Yamane, Reiichi: *See—*
- Mizutani, Yukio; Yamane, Reiichi; Sata, Toshikatsu; and Izuo, Ryuji, 3,647,086.
- Yamane, Sigeto: *See—*
- Ogawa, Hiroshi; Yamane, Sigeto; Nakagawa, Hisasi; and Uchida, Akinari, 3,672,355.
- Yamane, Tetsuo: *See—*
- Yoshida, Mitsuo; Kai, Hisao; and Yamane, Tetsuo, 3,654,104.
- Yamano, Kazuo: *See—*
- Yazawa, Masahide; Okada, Tokio; and Yamano, Kazuo, 3,662,935.
- Yamano, Togo; Henmi, Teruji; Usui, Yoshiro; Noda, Etsunosuke; and Yamada, Masayuki, to Takeda Chemical Industries, Ltd. Antidermatophytosis composition and method of use. 3,705,246, 12-5-72, Cl. 424-270.000.
- Yamanobe, Katsuyuki: *See—*
- Kitagawa, Tadashi; Yaguchi, Shoichiro; Yamanobe, Katsuyuki; and Kawamata, Masao, 3,696,316.
- Yamanobe, Yutaka: *See—*
- Otake, Naokichi; Yamanobe, Yutaka; Siina, Katumi; and Usuba, Kunikatsu, 3,644,862.
- Yamanoi, Akio: *See—*
- Okumura, Shinji; Otsuke, Shinichiro; Yamanoi, Akio; Yoshinaga, Fumihiko; Honda, Takeshi; Kubota, Koji; and Tsuchida, Takayasu, 3,660,235.
- Yamanoi, Yorio, to Minolta Camera Kabushiki Kaisha. Small sized electronic duplicator. 3,659,937, 5-2-72, Cl. 355-3.
- Yamanoi, Yorio, to Minolta Camera Kabushiki Kaisha. Developing device for electrostatic duplicators. 3,672,329, 6-27-72, Cl. 118-637.000.
- Yamanoi, Yorio, to Minolta Camera Kabushiki Kaisha. Exposure window of an electrostatic copying machine. 3,689,142, 9-5-72, Cl. 353-3.000.
- Yamanoto, Makoto; and Shintomi, Yukito, to Fujisoku Electric Co., Ltd. Reversing mechanism of switch. 3,688,062, 8-29-72, Cl. 200-153.00k.
- Yamanouchi, Akira; Takenaka, Seisuke; and Mitori, Yukio, to Matsushita Denko Kabushiki Kaisha. Method of making an enameled decorative board. 3,697,350, 10-10-72, Cl. 156-245.000.
- Yamanouchi Pharmaceutical Co., Ltd.: *See—*
- Kawata, Ryuichi; Kawada, Hirotsu; Ohmura, Tadayoshi; and Uematsu, Sumio, 3,639,564.
- Murakami, Masuo; Kawashima, Yuji; Ito, Noriki; and Yano, Kunichiro, 3,651,063.
- Murakami, Masuo; Iwanami, Masaru; Kubo, Kazuo; Sano, Kenji; Kochiya, Masahiro; and Arima, Hideki, 3,665,037.
- Murakami, Masuo; Kawahara, Shigemichi; Inukai, Noriyoshi; Ishida, Sanae; Imai, Kazuo; and Ozasa, Teruaki, 3,687,950.
- Murakami, Masuo; Inukai, Noriyoshi; Koda, Akio; and Nakano, Koji, 3,700,719.
- Umezawa, Hamao; and Osono, Takashi, 3,636,197.
- Yamanouchi, Saburo; Yasuno, Kiyoshi; Yamatohoriyama, Kou Sota; and Okumura, Takuzo, to Sumitomo Chemical Company Limited. Stabilized polyphenylene oxide composition. 3,700,750, 10-24-72, Cl. 260-874.000.
- Yamanouchi, Teruo: *See—*
- Kinjo, Kikuo; Yamanouchi, Teruo; Kondo, Eiichi; Matsuno, Hiroshi; and Nishide, Katsuhiko, 3,702,764.
- Kinjo, Kikuo; Yamanouchi, Teruo; Kondo, Eiichi; Matsuno, Hiroshi; and Nishide, Katsuhiko, 3,705,031.
- Yamanouchi, Yuichi, to Isuzu Motors Limited. Internal combustion engine with overhead valve mechanism. 3,672,338, 6-27-72, Cl. 123-90.270.
- Yamao, Eiko: *See—*
- Murayama, Keisuke; Toda, Toshimasa; Yamao, Eiko; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; and Watanabe, Ichiro, 3,663,558.
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- Tamura, Kiminori; Morozumi, Manami; Noda, Yutaka; Suzuki, Morio; and Yoshino, Hiroshi, 3,701,772.
- Yamasaki, Akitoshi: *See—*
- Shibata, Seiya; Yamasaki, Akitoshi; and Shimono, Isokazu, 3,672,666.
- Yamasaki, George K.: *See—*
- Woodbridge, James E.; and Yamasaki, George K., 3,648,092.
- Yamasaki, Hiroo: *See—*
- Tomota, Miyaji; Ishikawa, Yutaka; Yamasaki, Hiroo; and Kurita, Yoshio, 3,691,830.
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- Ohno, Yoshio; Eda, Korekiyo; Tamamura, Toshio; and Yamasaki, Kosaburo, 3,687,784.
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- Sonenberg, Martin; and Yamasaki, Nobuyuki, 3,664,925.
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- Inoue, Eiichi; and Yamase, Toshihiro, 3,705,037.
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- Yamashita, Emiko; and Fujimoto, Kyohei (said Fujimoto assor. to said), 3,696,234.
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- Ichikawa, Yataro; Yamashita, Gentaro; and Akachi, Tuichi, 3,660,476.
- Ichikawa, Yataro; Yamashita, Gentaro; Tokashiki, Michiyuki; and Suzuki, Nobuo, 3,668,235.
- Yamashita, Katsuyuki: *See—*
- Bojyo, Takuro; and Yamashita, Katsuyuki, 3,690,589.

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- Nagae, Yasuyuki; and Yamashita, Nobuyuki, 3,703,115.
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- Yamagata, Seiichi; Sakai, Masaaki; Matsubara, Toshimoto; and Yamashita, Shigeji, 3,645,080.
- Yamashita, Shinzo: *See—*
- Furukawa, Junji; Yamashita, Shinzo; Ikkaku, Kunihiko; Kitahara, Norio; Maeda, Shozo; and Tajima, Shigeru, 3,632,671.
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- Yamashita, Tadao: *See—*
- Fujita, Hideo; Ishitobi, Masami; Suga, Hiroyoshi; Ishiwari, Keishiro; Yotsui, Yoshikazu; Yamashita, Tadao; Edamitsu, Masayuki; and Moriwaki, Shokichi, 3,701,720.
- Yamashita, Tadao: *See—*
- Nada, Naohiro; and Yamashita, Tadao, 3,637,518.
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- Tanaka, Eiichiro; Onodera, Yutaka; Fukuda, Takeji; Yamashita, Tsutomu; and Kuma, Shoji, 3,652,967.
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- Yamashita, Yohachi: *See—*
- Ichinose, Noboru; Egami, Harutoshi; Yokoyama, Katsunori; and Yamashita, Yohachi, 3,682,826.
- Ichinose, Noboru; Egami, Harutoshi; Yokoyama, Katsunori; and Yamashita, Yohachi, 3,682,827.
- Ichinose, Noboru; Egami, Harutoshi; Yokoyama, Katsunori; and Yamashita, Yohachi, 3,684,715.
- Ichinose, Noboru; Egami, Harutoshi; Yokoyama, Katsunori; and Yamashita, Yohachi, 3,686,122.
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- Nagano, Hiroshi; Tomioka, Hideo; Yamataka, Akira; and Yoshida, Hirohiko, 3,635,634.
- Yamatani, Tetsuo: *See—*
- Ariyoshi, Yasuo; Yamatani, Tetsuo; Uchiyama, Noboru; and Sato, Naotake, 3,678,026.
- Yamato, Akira: *See—*
- Hori, Toshio; Yamato, Akira; and Shiraishi, Masao, 3,644,556.
- Yamato, Masaru, to Idemitsu Kosan Co., Ltd. Method for removing shellfishes and crustaceans gregariously settling on rubber hoses. 3,655,445, 4-11-72, Cl. 134-42.
- Yamato, Masaya: *See—*
- Katayama, Shizuo; Matsukawa, Hiroharu; Yamato, Masaya; and Matsuyama, Junichi, 3,687,865.
- Yamato Scale Company, Limited: *See—*
- Yamanaka, Masami; and Aga, Takashi, 3,698,493.
- Yamato Setubi Koji Kabushiki Kaisha: *See—*
- Shibayama, Daigoro; and Mashimo, Teruo, 3,676,074.
- Yamato-Machi, Kita: *See—*
- Yamachi, Yukio; Fujii, Hirohiko; Yamato-Machi, Kita; Kosuge, Hiroshi; and Morita, Koichi, 3,684,949.
- Yamatodani, Saburo: *See—*
- Nakao, Yoshio; Kuno, Mitsuzo; Yamatodani, Saburo; Imada, Isuke; and Morimoto, Hiroshi, 3,658,648.
- Nakao, Yoshio; Kuno, Mitsuzo; Yamatodani, Saburo; Tanaka, Fumihiko; and Nojiri, Tsutomu, 3,669,836.
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- Yamauchi, Akira. Nursing bottle. 3,651,973, 3-28-72, Cl. 215-11.
- Yamauchi, Choji: *See—*
- Maekawa, Hiroshi; and Yamauchi, Choji, 3,671,274.
- Yamauchi, Fujio: *See—*
- Matsuda, Hideaki; Mori, Hisakazu; and Yamauchi, Fujio, 3,678,012.
- Yamauchi, Masayuki: *See—*
- Ohta, Wasaburo; Kasuya, Kazuhiko; and Yamauchi, Masayuki, 3,678,895.
- Yamauchi Rubber Industry Co., Ltd.: *See—*
- Fukuyama, Yasuo; and Okada, Yosuke, 3,673,025.
- Sasaki, Kenkichi; and Saikawa, Hisashi, 3,665,355.
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- Nagai, Toshiaki; and Yamaura, Isao, 3,639,467.
- Yamawaki, Shunro: *See—*
- Irie, Yoshihiko; Yamawaki, Shunro; and Ogawa, Yukio, 3,692,212.
- Yamawaki, Shunro; Ohya, Isao; Nishizawa, Mitsunori; and Hayakawa, Ken, to Tokico Ltd. Concentric sales control system and apparatus in fuel supplying and servicing station. 3,632,988, 1-4-72, Cl. 235-61.7.
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- Mitamura, Rakuzo; Yamaya, Masatoshi; and Suzuki, Masakatsu, 3,661,419.
- Yamaya, Taiji; and Okada, Minoru. Brushless motor control apparatus for an electric vehicle. 3,688,169, 8-29-72, Cl. 318-138.000.
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- Maruchi, Katsumi; Yataka, Jiro; Tatsumi, Yasukazu; Wakita, Masayasu; and Yamayoshi, Tadashi, 3,662,299.
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- Okamoto, Tosiaki; Mori, Koziro; Yamazaki, Hayao; Abu, Takao; and Sato, Takefumi, 3,706,971.
- Yamazaki, Hideo: *See—*
- Maruyama, Mitsuo; Okabe, Akira; Yamazaki, Hideo; Sakai, Hideaki; Shimazu, Tadao; Kajiya, Shotaro; and Noda, Katsunobu, 3,651,056.
- Yamazaki, Hiroshi: *See—*
- Ando, Tetsuo; and Yamazaki, Hiroshi, 3,694,704.
- Yamazaki, Issei: *See—*
- Iijima, Taizo; Yamazaki, Issei; Mori, Shunji; Genchi, Hiroshi; and Katsuragi, Sumio, 3,668,638.
- Yamazaki, Kazukiyo: *See—*
- Iwai, Toshiharu; and Yamazaki, Kazukiyo, 3,666,615.
- Yamazaki, Shigeyuki: *See—*
- Nakao, Osakazu; Nakagawa, Saburo; Hirose, Juichi; Yamazaki, Shigeyuki; Amano, Takashi; Nakamura, Toshio; and Yamamoto, Hiroyuki, 3,658,735.
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- Shogo, Shimizu; Motose, Takami; Yamazaki, Syu; Komatsu, Michiyasu; and Yamamoto, Hiroshi, 3,661,536.
- Yamazaki, Takao: *See—*
- Amakasu, Tatuo; and Yamazaki, Takao, 3,648,006.
- Yamazaki, Tamotsu: *See—*
- Kurihara, Shigeru; Yamazaki, Tamotsu; Yamamoto, Hideaki; and Yokozato, Junichi, 3,635,416.

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Nagata, Nobuyoshi; and Yamazaki, Tsuguo, 3,652,313.
- Yamazaki, Yasuo; Furuta, Mitsuo; and Kuramoto, Yoshio, to Minolta Camera Kabushiki Kaisha. Device for optical focusing a glass fiber plate as a focusing screen. 3,661,065, 5-9-72, Cl. 95-44.
- Yamazaki, Yoichi: *See—*
Takenaka, Sadao; Kishida, Soichiro; and Yamazaki, Yoichi, 3,670,740.
- Yamazaki, Yoshio: *See—*
Isono, Masao; Takahashi, Takeshi; and Yamazaki, Yoshio, 3,649,454.
- Yamkami, Tsutomu: *See—*
Kobayashi, Yugo; and Yamkami, Tsutomu, 3,635,467.
- Yammamoto, Nobuo: *See—*
Sonoda, Minoru; Yammamoto, Nobuo; and Mikawa, Akikazu, 3,650,759.
- Yamura, Akira: *See—*
Suzuki, Yoshiaki; Yamura, Akira; and Fukasawa, Kenichiro, 3,642,834.
- Yamura, Ietoshi, to Mitsui Shipbuilding and Engineering Co., Ltd. Method of building ships. 3,680,512, 8-1-72, Cl. 114-46.000.
- Yan, Tsoung-Yuan: *See—*
Streed, Carl W.; and Yan, Tsoung-Yuan, 3,702,818.
- Yan-Nell Corporation: *See—*
Iannelli, Frank M., 3,685,694.
- Yanaga, Makoto, to Alps Electric Co., Ltd. Device for fixing a switch unit in a keyboard switch. 3,704,356, 11-28-72, Cl. 200-168.00c.
- Yanaga, Yoichiro: *See—*
Terasawa, Nobuo; Yagi, Syuho; Yanaga, Yoichiro; and Kiritani, Toyotaro, 3,636,736.
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Okazaki, Takayoshi; Tashiro, Kiroku; and Yanagida, Koichiro, 3,671,376.
- Yanagidaira, Hidetaka: *See—*
Nakagome, Yukio; Kawai, Kazuo; Yanagidaira, Hidetaka; Shintani, Sotokichi; and Michishita, Isakichi, 3,697,881.
- Shintani, Sotokichi; Kawai, Kazuo; and Yanagidaira, Hidetaka, 3,670,251.
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Kaminaka, Hiroshi; Kotera, Norio; Kanda, Tatsuo; Kuruma, Hiroshi; Yanagihara, Hideki; and Murata, Yoshiro, 3,691,278.
- Yanagimoto, Masato: *See—*
Mizukoshi, Yasumasa; and Yanagimoto, Masato, 3,661,031.
- Yanagisawa, Isamu: *See—*
Sakuma, Akira; Torii, Shizuo; Yanagisawa, Isamu; and Tsurugashima-Machi, Irima-Gun, 3,639,457.
- Yanagisawa, Takeru; and Mega, Yoshiyo, to Kawase Bussan Kabushiki Kaisha. Match head composition. 3,634,152, 1-11-72, Cl. 149-18.
- Yanagiuchi, Yukihiro: *See—*
Tanaka, Takashi; and Yanagiuchi, Yukihiro, 3,660,892.
- Yanaka, Yuzuru: *See—*
Kikuchi, Kunio; and Yanaka, Yuzuru, 3,689,036.
- Yancey, Le Roy D., to Major Corporation. Electric switchboard with rocker movable contact mounted on a wheel. 3,670,117, 6-13-72, Cl. 200-16.00c.
- Yancey, LeRoy D.: *See—*
Reese, Frank P.; and Yancey, LeRoy D., 3,696,536.
- Yancey, Raymond W. Muffler construction. 3,642,094, 2-15-72, Cl. 181-50.
- Yanchevsky, Kazimir Stanislavovich: *See—*
Khodosh, Vladimir Alexandrovich; Ivanov, Valentin Alexandrovich; Salov, Sergei Fedorovich; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Burtsev, Pavel Semenovich; Yanchevsky, Kazimir Stanislavovich; Savelyev, Leonid Ivanovich; Bolotin, Evgeny Oiseevich; and Khaidurov, Leonid Konstantinovich, 3,656,810.
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- Yang, Christen H. C., to Crown Zellerbach Corporation. Cleaning towel. 3,641,719, 2-15-72, Cl. 51-402.
- Yang, Frank Y., to Xerox Corporation. Fluidized development of electrostatic images. 3,654,900, 4-11-72, Cl. 118-637.
- Yang, Harold S.: *See—*
Matthews, Richard D.; Halfhill, Martin O.; Sordello, Frank J.; and Yang, Harold S., 3,670,316.
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- Yang, Kang: *See—*
Johnson, Morris A.; and Yang, Kang, 3,641,172.
- Johnson, Morris A.; and Yang, Kang, 3,642,920.
- Johnson, Morris A.; Washecheck, Paul H.; Yang, Kang; and Starks, Charles M., 3,650,918.
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- Yang, Yu-Chi: *See—*
Yeh, Chin-Jung; and Yang, Yu-Chi, 3,692,147.
- Yanik, Richard W.: *See—*
Standish, Norman W.; and Yanik, Richard W., 3,637,548.
- Yankee, Herbert L., to Pratt & Whitney, Inc. Self-pointing thread rolling dies. 3,654,800, 4-11-72, Cl. 72-469.
- Yankee Metal Products Corporation: *See—*
Seiler, Lazar I.; and Nicholas, James P., 3,703,018.
- Yanmar Diesel Engine Co., Ltd.: *See—*
Nagasaki, Michisuke, 3,695,401.
- Yannes, Peter A., Jr. Canoe construction. 3,691,572, 9-19-72, Cl. 9-3.000.
- Yannone, Robert A.: *See—*
Kiscaden, Roy W.; and Yannone, Robert A., 3,680,572.
- Yannopoulos, John C., to Newmont Exploration Limited. Continuous gas-atomized copper smelting and converting. 3,674,463, 7-4-72, Cl. 75-72.000.
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Kaneko, Haruo; and Yano, Kaoru, 3,676,600.
- Yano, Kunichiro: *See—*
Murakami, Masuo; Kawashima, Yuji; Ito, Noriki; and Yano, Kunichiro, 3,651,063.
- Yano, Masamitsu: *See—*
Ishimatsu, Tsuyoshi; Ito, Takashi; Yano, Masamitsu; Takeda, Hajime; and Nagano, Kentaro, 3,664,765.
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Harao, Norio; and Yano, Motohiro, 3,688,144.
- Harao, Norio; and Yano, Motohiro, 3,694,686.
- Yano, Nobumitsu: *See—*
Ishida, Shinichi; Yano, Nobumitsu; Oshima, Noboru; Fukuda, Hiromichi; and Sato, Takeshi, 3,696,170.
- Takata, Toyoharu; Fujii, Keisuke; Yano, Nobumitsu; Fukushima, Masao; Nagayoshi, Fumio; and Mizuno, Aiko, 3,692,768.
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Deguchi, Masahiro; and Yano, Osahiko, 3,686,432.
- Nakamura, Takahiro; Yano, Osahiko; and Sakumoto, Hideki, 3,661,344.
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Sasaki, Nobuyuki; Oka, Shunzo; and Yano, Tadashi, 3,633,146.
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Sugiura, Shotaro; Ueno, Haruo; Ishikawa, Hideo; Yano, Takefumi; and Shimamura, Tuneso, 3,644,320.
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Ijiri, Yoshinobu; Yano, Yoshiaki; and Yoshida, Hiroshi, 3,668,133.
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Kuga, Mutsuo; Mashimo, Takeshi; Arai, Teruo; and Yano, Yoshihiko, 3,632,728.
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Nakahara, Teiji; and Yanobu, Hideo, 3,636,698.
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Sweeney, Richard F.; and Yao, Charles Cheng-Yu, 3,700,733.
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Chin, Wesley S. C.; and Yao, Kou C., 3,671,367.
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Uenoyama, Masaru; and Yaoeda, Makoto, 3,656,496.
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Kono, Reisaku; Yamamoto, Shigeo; and Yaoi, Hideaki, 3,655,872.
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Torok, Andrew, 3,650,886.
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Gunter, Gregory M.; Lewis, J. Stephen; Nishiguchi, Masakatsu; Robson, George E.; Wagner, Raymond P.; and Yarbrough, William R., 3,696,552.
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Blossom, Raymond W.; and Charkey, Allen, 3,655,451.
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- Kober, Frederick P.; and West, Hiry B., 3,647,550.
- Lang, Maurice; and Di Pasquale, Renato, 3,650,839.
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Yardney, Michel N.; and Kohen, Nuri, 3,632,449.
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Panzer, Hans P.; Yare, Robert S.; and Forbes, Malcolm R., 3,669,679.
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Herbstman, Martin; and Yarina, William, 3,633,039.
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Brindisi, Frank A., Jr.; Nagy, Joseph S.; and Yarkosky, Eugene F., 3,677,949.
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Zalles, Robert L., 3,687,821.
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Turpin, Alexander J.; and Yarnell, William T., 3,645,516.
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Suhami, Albert; Sabbah, Benjamin; Inbar, Dan; Yarom, Artzi; and Ben-Zeev, Dan, 3,701,901.
- Yaroslavsky, Mikhail Iosifovich: *See—*
Fedorkov, Albert Pavlovich; Yaroslavsky, Mikhail Iosifovich; and Orlovskaya, Galina Yankelevna, 3,691,411.
- Yarovaya, Galina Dmitrievna: *See—*
Bokov, Jury Sergeevich; Vikulina, Ninel Vladimirovna; Dogadkin, Boris Aristarkhovich; Erofeev, Boris Vasilievich; Larina, Anastasia Vasilievna; Lavrishev, Vadim Petrovich; Markov, Vladimir Vladimirovich; Naumova, Sofia Fadeevna; Jurina, Olga Demidovna; an Yarovaya, Galina Dmitrievna, 3,674,496.
- Yarovsky, Lev Volfovich: *See—*

- Chaikin, Boris Semenovitch; Kozlov, Lev Ivanovich; Oblasti, Khimki Moskovskoi; Malchenko, Thomas Vasilievich; Mokrushin, Konstantin Dmitrievich; Yarovsky, Lev Volfovich; Maryanchik, Grigory Efimovich; Zhelnov, Boris Stepanovich; Tarasov, Vasily Mikhailovich Trubetskov, Kirill Mikhailovich; Borschevsky, Igor Konstantinovich; and Chermensky, Dmitry Pavlovich, 3,697,058.
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Bonafino, Edward J.; Doolittle, Frederick W.; Hayes, Charles U.; and Yarrington, James C., 3,706,370.
- Yarrison, Walter W.: *See—*
Chandler, Edmond A.; Pearsall, Ralph E.; Winslow, Kenelm W.; and Yarrison, Walter W., 3,658,632.
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Morse, Phillip H.; and Yarter, James R., 3,633,758.
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Kodaira, Kiju; and Yoshimura, Hirofumi, 3,690,232.
- Yamamoto, Masaru, 3,636,839.
- Yoshimura, Hirofumi; and Yakahata, Hisatoshi, 3,673,415.
- Yashima, Masaaki: *See—*
Sato, Katsumi; Nakamura, Takashi; Nakamura, Masaru; Hirasawa, Kazuo; Hamada, Mitsuo; Takahashi, Kenji; Yashima, Masaaki; Ozaki, Toshiaki; Yamamoto, Sigeo; Ooishi, Tadashi; Fujinami, Akira; Horiuchi, Fukashi; and Nodera, Katsuji, 3,703,526.
- Yashima, Yukio: *See—*
Yonemitsu, Eiichi; Isshiki, Tomiya; Suzuki, Tsuyoshi; and Yashima, Yukio, 3,678,107.
- Yashiro, Hideo: *See—*
Abe, Isamu; Yashiro, Hideo; Sori, Naoyuki; Hatano, Sotaro; Katsumoto, Tomiyasu; and Suzuki, Tadao, 3,670,395.
- Yashkin, Eduard Petrovich: *See—*
Sokolov, Evgeny Vyacheslavovich; Yashkin, Eduard Petrovich; Sysoev, Vadim Ivanovich; Kozhevnikov, Rady Savvich; Chabanov, Alim Ivanovich; Shinkarenko, Mikhail Ivanovich; Grinchuk, Petr Stepanovich; Fomin, Georgy Georgievich; and Rusaev, Vladimir Ivanovich, 3,686,907.
- Yasjukevich, Boris Ivanovich: *See—*
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Besedin, Leonid Nikolaevich; Zhurenko, Anna Timofeevna; Urvantsev, Leonid Mikhailovich; Scherbakov, Jury Dmitrievich; Yasjukevich, Boris Ivanovich; Demin, Anatoly Anisimovich; and Peshkov, Evgeny Iktorovich, 3,654,756.
- Yasoshima, Nobuyuki: *See—*
Amano, Kitsutaro; Ota, Chuichi; Hashimoto, Masao; Kanzaki, Hisao; Sakamoto, Yasuhiko; and Yasoshima, Nobuyuki, 3,644,680.
- Yasoshima, Nobuyuki: *See—*
Sasaki, Hiroshi; Maruyama, Tatsuo; Kanzaki, Hisao; Sakamoto, Yasuhiko; and Yasoshima, Nobuyuki, 3,643,031.
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Yokotsuka, Tamotsu; Aonuma, Tatsuo; Mogi, Koya; Fukushima, Danji; Yasuda, Atsushi; Watanabe, Hiroharu; Tsukada, Naoshi; and Arai, Akira, 3,647,484.
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Utsunomiya, Kimitake; and Yasuda, Hitoshi, 3,688,156.
- Yasuda, Kentaro, to Otis Elevator Company. Rope tension gauge for elevator system. 3,672,214, 6-27-72, Cl. 73-144,000.
- Yasuda, Kotaro: *See—*
Watanabe, Masami; Namikawa, Keishi; Yasuda, Kotaro; and Takagi, Motoyoshi, 3,697,605.
- Yasuda, Masao: *See—*
Koyama, Shigeo; Ohtsuki, Motohiro; Shimatani, Kenji; Yasuda, Masao; Takei, Toru; Kawai, Yasutaka; and Matsushima, Takeshi, 3,644,780.
- Yasuda, Minoru: *See—*
Yamaguchi, Yukiya; Fukushima, Kunihiko; Yasuda, Minoru; and Nagata, Shojiro, 3,701,095.
- Yasuda, Nobuaki: *See—*
Murakami, Yoshio; Higashinakagawa, Iwao; Yasuda, Nobuaki; and Sato, Motoharu, 3,653,007.
- Murakami, Yoshio; Higashinakagawa, Iwao; Yasuda, Nobuaki; and Takeno, Syozo, 3,671,312.
- Yasuda, Nobuaki; Ogawa, Takenobu; Murakami, Yoshio; Higashinakagawa, Iwao; Takeno, Syozo; and Tanaka, Norio, to Tokyo Shibaura Electric Co., Ltd. Method for manufacturing a magnetic thin film memory element. 3,699,619, 10-24-72, Cl. 29-604,000.
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Honsho, Norihisa; Yasuda, Satoshi; and Wakahata, Tamotsu, 3,649,728.
- Yasuda, Takehiko: *See—*
Mizuno, Kaoru; Kitamura, Tetsuo; Nakao, Shoichi; Yasuda, Takehiko; Ueno, Akio; Yoshikawa, Kyunoyu; Yuminaka, Takeo; and Sakata, Kazuhiro, 3,662,905.
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Kitazima, Seizo; and Yasuda, Tetuya, 3,633,356.
- Tanaka, Kazuo; Kanayama, Toshihiko; Yasuda, Tetuya; Tutiya, Hidetaka; Kikuchi, Yoshio; and Muto, Takeo, 3,659,413.
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Hatsue, Toshikazu; Ueda, Hiromi; Ozawa, Shouti; and Yasuda, Yuh, 3,699,412.
- Yasuda, Yukio: *See—*
Watanabe, Shigeru; Yasuda, Yukio; and Sano, Kazuya, 3,667,953.
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Murata, Toshio; and Yasui, Atsushi, 3,633,530.
- Yasui, Eizo: *See—*
Kawamura, Sukeyoshi; Kondo, Kishichiro; Ito, Kenji; Suzuki, Hiroshi; Yasui, Eizo; and Kobayashi, Toshiro, 3,652,635.
- Yasui, Hajime: *See—*
Sawaka, Jiro; Misaki, Tetsuo; Okabe, Masao; Yasui, Hajime; Hanada, Kazunori; and Okazaki, Tadayasu, 3,652,400.
- Yasui, Hideaki; and Tsurumi, Sukeo. Seat recliner. 3,667,804, 6-6-72, Cl. 297-362.
- Yasui, Hideo: *See—*
Suzuki, Ichizo; Yasui, Hideo; and Nanba, Kazuhiko, 3,669,696.
- Yasui, Hiroshi: *See—*
Yamamoto, Atsushi; Omori, Tairiku; and Yasui, Hiroshi, 3,647,629.
- Yasui, Kazuomi: *See—*
Hoffmann, Hellmut; Scheinpflug, Hans; Kume, Toyohiko; and Yasui, Kazuomi, 3,686,369.
- Yasui, Koichi; Yamamoto, Kazuo; Itami, Kazuo; Fujisawa, Kiyoshi; and Sakai, Toshio, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for the continuous xanthation and solution of alkali cellulose. 3,671,279, 6-20-72, Cl. 106-165,000.
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Hiropka, Masaaki; Yasui, Seimei; Mashita, Kentaro; and Kimura, Fumiyuki, 3,700,648.
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Kubo, Moritada; Shigehara, Masamichi; and Yasui, Shozo, 3,681,583.
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- Okada, Tsuneo; Onodera, Yutaka; Mitsuoka, Takeshi; Saito, Yukinori; Muto, Yoshio; Anayama, Takeshi; and Yasukochi, Ko, 3,691,046.
- Yasumatsu, Katsuharu: *See—*
Heki, Takao; Yasumatsu, Katsuharu; Sawada, Koshichi; and Funakoshi, Yoshio, 3,701,667.
- Yasumoto, Kunio: *See—*
Kanokogi, Tatsuro; and Yasumoto, Kunio, 3,667,534.
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Komatsu, Koei; Okuya, Eitaro; Tomioka, Katsuyoshi; Sakai, Masato; Hayashi, Shigeki; Yasunaga, Hidetoshi; and Kogure, Akira, 3,669,943.
- Yasunaga, Masahiro: *See—*
Niwa, Kunimori; Shibai, Hiroshiro; Yasunaga, Masahiro; Hirose, Yoshio; and Shiro, Teruo, 3,669,844.
- Yasuno, Kiyoshi: *See—*
Yamanouchi, Saburo; Yasuno, Kiyoshi; Yamatokohriyama, Kou Sota; and Okumura, Takuzo, 3,700,750.
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Wada, Yoshio; and Yasutake, Katsuya, 3,655,910.
- Yasutomi, Hideatsu: *See—*
Ohga, Shizuo; Yasutomi, Hideatsu; and Fujita, Masuo, 3,705,252.
- Yasutomi, Kimiaki: *See—*
Kumura, Teruhiko; Imataki, Norio; Hasui, Katuyuki; Inoue, Takeo; and Yasutomi, Kimiaki, 3,650,704.
- Yasuzuka, Katsumi: *See—*
Maeda, Yutaka; Kimura, Hiroshiro; Koshimo, Akio; Kanzaki, Nagamasa; Yasuzuka, Katsumi; and Furukawa, Yoshinobu, 3,643,412.
- Yata, Kintaro: *See—*
Ueda, Hiroshi; Yata, Kintaro; and Matsuda, Motonobu, 3,678,822.
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- Yata, Tomio: *See—*
Hanaoka, Takemi; Kakehashi, Toshiro; Toyomasu, Ryota; and Yata, Tomio, 3,704,316.
- Yataka, Jiro: *See—*
Maruchi, Katsumi; Yataka, Jiro; Tatsumi, Yasukazu; Wakita, Masayasu; and Yamayoshi, Tadashi, 3,662,299.
- Yate, Reginald W., to Burnley Engineering Products Limited. Acoustic panel. 3,639,106, 2-1-72, Cl. 29-191.
- Yates, Albert L.: *See—*
Schildkraut, Sid L.; Yates, Albert L.; and Cohn, Peter J., 3,655,482.
- Yates, Charles B., to Circuit Foil Corporation. Bonding treatment and products produced thereby. 3,674,656, 7-4-72, Cl. 204-13,000.
- Yates, David William: *See—*
Lancaster, James Kenneth; and Yates, David William, 3,680,439.
- Yates, Dick: *See—*
Beach, Horace J.; En Dean, Howard J.; Frawley, Frank E.; and Yates, Dick, 3,669,700.
- Yates, Donald B., to Pullman Incorporated. Anchoring rod bracket assembly for railway car brake rigging. 3,693,762, 9-26-72, Cl. 188-52,000.
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Lundeen, Allan J.; and Yates, James F., 3,641,085.
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- Yates, John S.: *See—*
Steele, Michael F.; and Yates, John S., 3,696,488.
- Yates, Kenneth, 50% to Allison, Donald B. Temporary support for electrical outlet box. 3,674,913, 7-4-72, Cl. 174-48,000.
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Chay, Dong M.; Cumbo, Charles Carmen; Randolph, Michael J.; and Yates, Paul C., 3,676,477.
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- Weidman, Verne Wesley; and Yates, Paul C., 3,689,245.
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Gorin, Everett; and Yavarosky, Paul M., 3,687,615.
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Gorin, Everett; and Yavorsky, Paul M., 3,690,818.
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Akuta, Tomohiko; Seya, Atsumi; and Hashirizaki, Shinya, 3,670,833.
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- Yax, Emile: *See*—
Aubry, Jean; and Yax, Emile, 3,700,741.
- Yayo Plastic Yoki Co., Ltd.: *See*—
Ochi, Takashi, 3,671,360.
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Yamada, Shoji; and Kawaguchi, Yoshiaki, 3,688,243.
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Kondo, Asaji; Fujisaki, Hiroshi; Miyano, Shizuo; and Yazawa, Kenichiro, 3,701,663.
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Steigleder, Charles J.; Smithy, Linual D.; and Ydon, Lloyd E., 3,696,671.
- Ydren, Nils-Erik: *See*—
Moren, Rolf Erhard; and Ydren, Nils-Erik, 3,663,251.
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Earley, James Valentine; Fryer, Rodney Ian; Ye-Fong Ning, Robert; and Sternbach, Henryk, 3,681,341.
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Watts, George T.; and Yeager, Robert W., 3,675,703.
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Finger, Carl; Selinko, George J.; and Yeager, Stanley A., Jr., 3,634,732.
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Lichtenwalter, Myrl; and Yeakey, Ernest Leon, 3,692,789.
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Dunham, Tom David; Yeakley, Lester Marvin; and Nagy, Andrew, 3,696,456.
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Anderson, Charles Merton, 3,678,697.
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Adams, Anthony L.; Yearsley, Gerald A.; Simmons, Marion I.; and Yager, Billy P., 3,641,660.
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Vitek, Edmund J.; and Yeates, Robert A., 3,673,494.
- Yeda Research and Development Co., Ltd.: *See*—
Asscher, Meir; Katchalsky, Aharon; and Vofsi, David, 3,651,019.
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- Sprinzak, Yair, 3,700,720.
- Zabicky-Zissman, Jacobo Zelik; Oren, Ida; and Katchalski, Ephraim, 3,700,610.
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Duffy, Michael C.; Schumann, Paul A., Jr.; and Yeh, Tsu-Hsing, 3,655,457.
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Rustako, Anthony Joseph, Jr.; and Yeh, Yu Shuan, 3,693,088.
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Yeiser, John O.; and Yeiser, John O., III, 3,631,843.
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Molloy, Everett W., 3,685,346.
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- Yellowless, John Mackinlay: *See*—
Pettinger, Donald Stanley; and Yellowless, John Mackinlay, 3,663,365.
- Yelvington, John J.: *See*—
Wisely, Kenneth, 3,647,995.
- Yen, Chen-Hsiung: *See*—
Williams, David A.; Yen, Chen-Hsiung; and Harris, Calvin E., 3,687,786.
- Yen, Chung Hwai: *See*—
Cusic, John W.; and Yen, Chung Hwai, 3,660,485.
- Yenisey, Osman Metin, to Bell Telephone Laboratories, Incorporated. Pulse circuit for controlling pulse. 3,675,048, 7-4-72, Cl. 307-261.000.
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- Yerman, Alexander J.: *See*—
Orth, Edward D.; and Yerman, Alexander J., 3,697,917.
- Orth, Edward D.; and Yerman, Alexander J., 3,697,918.
- Yerman, Alexander J., to General Electric Company. Tunnel diode oscillator FM temperature sensor. 3,679,992, 7-25-72, Cl. 331-66.000.
- Yerouchalmi, David: *See*—
Blattmann, Henri; Javellaud, Jean; and Yerouchalmi, David, 3,660,701.
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Blattmann, Henri; Javellaud, Jean; and Yerouchalmi, David, 3,686,519.
- Yerouchalmi, David. Axial pouring-nozzle structure for rotary melting furnace. 3,705,712, 12-12-72, Cl. 263-33.00r.
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Yerzley, Felix L., 3,689,938.
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Mattis, Daniel C., 3,664,726.
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- Yesowich, Thomas N.: *See*—
Houghton, Frank A.; and Yesowich, Thomas N., 3,680,853.
- Yew, Nelson C.: *See*—
Dao, James; and Yew, Nelson C., 3,676,670.
- Ygfors, Goran, to Ygfors Trading AB. Heat insulating device for fastening two metallic members or other objects to each other. 3,690,705, 9-12-72, Cl. 287-20.300.
- Ygfors Trading AB: *See*—
Ygfors, Goran, 3,690,705.
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Belsky, Igal; Gertner, David; and Zilkha, Albert, 3,651,115.
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- Zyk, Naomi, 3,644,177.
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Kring, Olof; and Yngve, Stig G. J., 3,685,904.
- Yngvesson, Henry: *See*—
Angelstrand, Borje; Ragnar, Mostrom; and Yngvesson, Henry, 3,690,642.
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- Yoda, Masayuki: *See*—
Tamura, Masabi; Yoda, Masayuki; Shinya, Seishi; and Ayukawa, Yaichi, 3,686,144.
- Yoda, Naoya: *See*—
Asahara, Tomohiko; Yoda, Naoya; and Minami, Nuneyoshi, 3,669,930.
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Muraki, Kiichi; and Yoda, Tadashi, 3,680,521.
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Mekata, Teizo; Yoda, Takashi; and Shiraiishi, Masaharu, 3,644,170.
- Yoder, Alfred Dean; and Roth, Robert Richard, to Deere & Company. Field conditioner. 3,698,488, 10-17-72, Cl. 172-311.000.
- Yoder Company, The: *See*—
Chang, William J. H., 3,635,064.
- Yoder, Robert N.: *See*—
Perkins, Carroll R.; Shaffstall, Everett L.; Yoder, Robert N.; and Gundersen, James L., 3,659,286.
- Yohe, Robert A.; and McCall, George L., to Bethlehem Steel Corporation. Limit switch operator. 3,636,283, 1-18-72, Cl. 200-61.48.
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Kawada, Shin-ichi; Yoichi, Hirokawa; and Masuzawa, Isao, 3,656,043.
- Yoji Hattori: *See*—
Okamoto, Isamu, 3,662,733.
- Yokico Yuki Ltd.: *See*—
Irie, Yoshihiko; Yamawaki, Shunro; and Ogawa, Yukio, 3,692,212.
- Yokogawa Electric Works, Ltd.: *See*—
Hasebe, Takefumi; and Yamada, Kazuo, 3,693,180.
- Nakane, Hisao; and Hashimoto, Akihisa, 3,652,945.
- Ohno, Isamu; Kobayashi, Akio; Ohte, Akira; Tamuki, Minoru; and Ohta, Susumu, 3,655,992.
- Sugiyama, Takashi; Kurata, Satoshi; and Nakane, Hisao, 3,652,930.
- Watanabe, Kazutaka, 3,671,671.
- Yamanaka, Takashi; Miyauchi, Rinichi; Fujita, Hisaya; and Kaieda, Nobuo, 3,704,415.
- Yamasaki, Hiroo; Kurita, Yoshio; Ishikawa, Yutaka; and Sawayama, Takehiro, 3,693,438.
- Yokogawa-Hewlett-Packard, Ltd.: *See*—
Shimizu, Takeo, 3,663,955.
- Yokohama, Katsunori: *See*—
Ichinose, Noboru; Egami, Harutoshi; Yokohama, Katsunori; and Yamashita, Yohachi, 3,684,715.
- Yokohama Rubber Co., Ltd.: *See*—
Kinoshita, Osamu, 3,632,530.
- Yokoi, Fumitoshi: *See*—
Yamagishi, Hidehisa; Yokoi, Fumitoshi; and Takahashi, Tadao, 3,690,940.
- Yamagishi, Hidehisa; Yokoi, Fumitoshi; and Kutino, Tuiyoshi, 3,700,477.
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Nyunoya, Mizuo; and Yokoi, Masatada, 3,707,210.
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Nagasawa, Fujio; Okamoto, Shosuke; Takagi, Eiichi; Yokoi, Mikio; and Mangyo, Mitsuo, 3,639,626.
- Yokokawa, Sumio: *See*—
Nagae, Masaomi; and Yokokawa, Sumio, 3,663,948.
- Yokomichi, Isao: *See*—
Nishiyama, Ryuzo; Fujikawa, Kanichi; Yokomichi, Isao; and Kimura, Fumio, 3,637,720.
- Yokomichi, Koji: *See*—
Kokubo, Ryo; Yokomichi, Koji; Takakuwa, Yasuo; Maruyama, Isao; Shiroishi, Akihiro; and Nagakura, Mizuhiko, 3,637,686.
- Yokomizo, Takashi: *See*—
Komatsu, Youji; Furukawa, Yasuhiro; and Yokomizo, Takashi, 3,662,015.
- Komatsu, Youji; Furukawa, Yasuhiro; and Yokomizo, Takashi, 3,674,886.
- Yokoo, Makoto: *See*—
Keshi, Akizo; Yoshii, Kunio; Yokoo, Makoto; and Nakai, Kaichi, 3,703,484.
- Matsui, Yutaka; Misc, Noritoshi; Goto, Jugo; and Yokoo, Makoto, 3,676,402.
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Ishizuka, Shigeru, 3,686,672.
- Yokota, George: *See*—
Mayer, Thomas E., Sr.; and Yokota, George, 3,656,500.
- Story, John N.; Mayer, Thomas E.; and Yokota, George, 3,648,722.
- Yokota Kinzoku Kogyo Co., Ltd.: *See*—
Endou, Hidehiro; and Yokota, Takashi, 3,698,034.
- Yokota, Masao: *See*—
Usamoto, Teruyoshi; Yokota, Masao; and Kondo, Tamotu, 3,651,176.
- Usamoto, Teruyoshi; Yokota, Masao; and Kondo, Tamotu, 3,669,828.
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Katagiri, Shigenobu; and Yokota, Mitsuhsa, 3,692,419.
- Yokota, Mitsuhsa: *See*—
Sakamoto, Tetsuzo; Torii, Akiomi; Yokota, Mitsuhsa; and Sato, Seiko, 3,688,095.
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- Yokota, Takashi: *See*—
Endou, Hidehiro; and Yokota, Takashi, 3,698,034.
- Yokota, Toshiyuki: *See*—
Nakano, Sohta; Fujimoto, Kazumitsu; Otomo, Kazuhiro; Yokota, Toshiyuki; and Shindo, Hiroshi, 3,686,002.

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Sano, Kazuya; Yokota, Yukio; Oishi, Yasushi; and Nakazyoo, Kiyoshi, 3,649,276.
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Mizuma, Noriaki; and Yokota, Yuzo, 3,679,352.
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Ishibashi, Wataru; Nakano, Satoru; and Yokotani, Takeo, 3,698,362.
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Uchida, Kinji; Mogi, Koya; and Yokotsuka, Tamotsu, 3,695,897.
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Ito, Yukio; Yokouchi, Haruo; and Konno, Kenji, 3,651,430.
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Ichinose, Noboru; Yokoyama, Katsunori; Egami, Harutoshi; and Tanno, Yoshikazu, 3,645,974.
- Ichinose, Noboru; Egami, Harutoshi; Yokoyama, Katsunori; and Tanno, Yoshikazu, 3,661,781.
- Ichinose, Noboru; Yokoyama, Katsunori; and Nishikawa, Hisashi, 3,679,919.
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- Yokoyama, Kenjiro: *See—*
Amano, Hisao; Ueda, Akiteru; Yokoyama, Kenjiro; and Ogata, Fumio, 3,662,248.
- Machida, Takehiko; Yoshida, Yukio; Fujii, Noriyoshi; and Yokoyama, Kenjiro, 3,636,431.
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Nakazato, Hiroshi; Yokoyama, Masayoshi; Nagano, Toshihiro; and Kaneda, Kazuyoshi, 3,634,214.
- Yokoyama, Masuzo: *See—*
Tashiro, Kijuro; and Yokoyama, Masuzo, 3,676,418.
- Yokoyama, Minoru: *See—*
Eguchi, Fusatoshi; Okamoto, Sohei; Yamaha, Mashio; Matsumoto, Nobuo; and Yokoyama, Minoru, 3,703,963.
- Yokoyama, Ryuzaburo: *See—*
Okajima, Masaki; and Yokoyama, Ryuzaburo, 3,667,670.
- Yokoyama, Taizo: *See—*
Nihyakumen, Kouzi; Yokoyama, Taizo; Ueda, Yasuo; Kamezawa, Yasutoki; and Aizawa, Tatsuo, 3,653,903.
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Hara, Ei; and Yokoyama, Tatsuchi, 3,687,586.
- Yokoyama, Tohei: *See—*
Hosokawa, Masuo; Yokoyama, Tohei; and Urayama, Kiyoshi, 3,665,768.
- Hosokawa, Masuo; Yokoyama, Tohei; and Nakagawa, Fumio, 3,670,886.
- Yokoyama, Toshimitsu: *See—*
Kobayashi, Tsuneo; Morita, Ken-Ichi; Kitagawa, Hiroshi; Yokoyama, Toshimitsu; and Makida, Shigeo, 3,644,375.
- Yokozato, Junichi: *See—*
Kurihara, Shigeru; Yamazaki, Tamotsu; Yamamoto, Hideaki; and Yokozato, Junichi, 3,635,416.
- Yamashita, Keizo; Yokozato, Junichi; and Yamamoto, Hideaki, 3,688,675.
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Kano, Gota; Yokozawa, Masami; Kawasaki, Tatsuo; Fujiwara, Shohei; and Hasegawa, Hiromasa, 3,634,931.
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Suzuki, Ryuji; and Yokozeki, Seiki, 3,643,055.
- Yoldas, Bulent E., to Owens-Illinois, Inc. Refractory article and method for producing same. 3,681,113, 8-1-72, Cl. 117-46.0fa.
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Seko, Maomi; Yomiya, Akira; Miyake, Tetsuya; Nakagawa, Koji; Yoshida, Munee; and Inada, Koji, 3,657,099.
- Seko, Maomi; Yomiya, Akira; Takahashi, Yasunobu; Seta, Shigetoshi; and Nakagawa, Koji, 3,664,936.
- Seko, Maomi; Yomiya, Akira; Miyake, Tetsuya; and Iwashita, Hidemaro, 3,673,068.
- Seko, Maomi; Yomiya, Akira; Ogawa, Shinsaku; Tetsuya, Miyake; Ryozo, Komori; and Norito, Ogawa, 3,682,792.
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- Yonaites, Gary A.: *See—*
Yonaites, Rosemary C.; and Yonaites, Gary A., 3,677,596.
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- Yone, Harold R.: *See—*
Olson, Raymond E.; and Yone, Harold R., 3,696,602.
- Yoneda, Kazuo: *See—*
Hori, Yasuaki; Yoneda, Kazuo; and Kobayashi, Takahiko, 3,689,441.
- Yoneda, Masahiko; Yaoi, Hideaki; Kida, Makoto; Matsuda, Shinobu; and Shirafuji, Hideo, to Takeda Chemical Industries, Ltd. Interferon induction. 3,660,564, 5-2-72, Cl. 424-85.
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Uyama, Noboru; Shimada, Yoshiaki; Hino, Masamichi; and Yoneda, Rinosuke, 3,648,792.
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Makihara, Tsutomu; and Yoneji, Satoshi, 3,688,710.
- Makihara, Tsutomu; and Yoneji, Satoshi, 3,688,714.
- Yonekura, Yasushi: *See—*
Akamatsu, Kiyoshi; Maruta, Masayasu; and Yonekura, Yasushi, 3,687,785.
- Yonemitsu, Eiichi; Isshiki, Tomiya; Suzuki, Tsuyoshi; and Yashima, Yukio, to Mitsubishi Edogawa Kagaku Kabushiki Kaisha. Process for the production of oxalic acid. 3,678,107, 7-18-72, Cl. 260-531.00r.
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Shirota, Hiroharu; Yonemoto, Kunio; Masuda, Tuiyoshi; Ito, Takayuki; and Nagaki, Ryuzo, 3,652,747.
- Yoneoka, Mikio: *See—*
Tsuboi, Yukio; Ueda, Yoshio; Ota, Tazuo; and Yoneoka, Mikio, 3,647,054.
- Yoneya, Juho, to Sony Corporation. Control circuit for driving an alternating current motor at a speed corresponding to the magnitude of a control signal and for braking the motor when the signal falls below a certain value. 3,649,894, 3-14-72, Cl. 318-210.
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Fujita, Isamu; and Yoneya, Tooru, 3,689,477.
- Yoneyama, Masakazu; Shimamura, Isao; Iwano, Haruhiko; and Ohi, Reiichi, to Fuji Photo Film Co., Ltd. Development of silver halide photographic materials. 3,671,247, 6-20-72, Cl. 96-663.000.
- Yoneyama, Tohru: *See—*

- Yokoyama, Fujihiko; Yoneyama, Tohru; and Sato, Shigehiko, 3,679,438.
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Watanabe, Sadakazu; Mori, Kenichi; Yoneyama, Tsuneo; and Genchi, Hiroshi, 3,688,266.
- Yonezawa, Teruhiko; Kobayashi, Kesanoo; and Kobayashi, Teruo, to Fuji Photo Film Co., Ltd. Photosensitive printing plate. 3,669,658, 6-13-72, Cl. 96-33.
- Yonezawa, Toshio: *See—*
Nakamura, Masakatsu; Yonezawa, Toshio; Kato, Taketoshi; Watanabe, Masaharu; and Akatsuka, Minoru, 3,694,707.
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- York, David L.: *See—*
Muzyczko, Thaddeus M.; Frederiksen, Ronald A.; and York, David L., 3,690,880.
- York Feather & Down Corporation: *See—*
Eisner, Nathan A., 3,693,836.
- York Graphic Services, Inc.: *See—*
Lanzendorfer, Max J.; Lauer, Marvin E.; and Wanner, Robert K., 3,648,577.
- York, Ira Bill Lee: *See—*
Black, Daniel A.; Ingersoll, Albert A.; York, Ira Bill Lee; and Jones, David O., 3,667,340.
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- York, Leonard Ernest: *See—*
Dunn, Geoffrey Bernard; and York, Leonard Ernest, 3,669,048.
- York, Ray A., to Berte Corporation. Composite rod. 3,698,264, 10-17-72, Cl. 74-581.000.
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Smith, Dale R., 3,637,144.
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- York William D.: *See—*
Fall, Herbert S.; York William D.; and Huff, Larry D., 3,679,275.
- Yorkshire Switchgear and Engineering Co., Limited: *See—*
Caton, George, 3,699,290.
- Yorston, Frederick H.; and Liebergott, Norman, to Pulp and Paper Research Institute of Canada. Two-stage purification of fibrous cellulose material employing gaseous chlorine dioxide in one stage and a peroxygen compound in the other. 3,655,505, 4-11-72, Cl. 162-67.
- Yosemite Laboratory: *See—*
Burnette, Robert W.; Hoffman, Harold L.; and Lukes, Richard V., 3,638,933.
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Fudemoto, Isao; Yoshibayashi, Tsutomu; and Miyamura, Tadao, 3,671,886.
- Yoshida, Akira: *See—*
Shirai, Yoshihiro; Ichikawa, Hirohiko; Yoshida, Akira; Uchida, Naotake; Tsuji, Masaru; and Matsumoto, Zenji, 3,676,365.
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Yoshida, Zenzo; Miyazaki, Hiroshi; Yoshida, Tokuji; and Kobayashi, Hiroaki, 3,635,007.
- Yoshida, Fumihiko: *See—*
Ichishima, Eiji; and Yoshida, Fumihiko, 3,645,850.
- Yoshida, Hirohiko: *See—*
Nagano, Hiroshi; Tomioka, Hideo; Yamataka, Akira; and Yoshida, Hirohiko, 3,635,634.
- Yoshida, Hiroshi: *See—*
Ijiri, Yoshinobu; Yano, Yoshiaki; and Yoshida, Hiroshi, 3,668,133.
- Oishi, Kazuo; Kurebayashi, Tokuhiko; Ando, Noriyoshi; Yamamoto, Noboru; and Yoshida, Hiroshi, 3,660,689.
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- Oishi, Kazuo; Ando, Noriyoshi; and Yoshida, Hiroshi, 3,688,306.
- Yoshida, Katuru: *See—*
Hozumi, Shiro; Hirai, Kenichi; Tanigawa, Yoshiyuki; Yoshida, Katuru; and Sugihara, Kanji, 3,673,666.
- Yoshida, Kazuo: *See—*
Okuno, Kenzo; Itagaki, Takaharu; Isogai, Yoshimasa; Yoshida, Kazuo; Fujiki, Konosuke; and Odagawa, Katumi, 3,666,809.
- Yoshida, Kenichi: *See—*
Kurauchi, Noritaka; Fujimoto, Tokio; Yoshida, Kenichi; Ui, Masamitsu; Nagata, Zenji; and Kouno, Hirokazu, 3,636,436.
- Nakahara, Tsuneo; and Yoshida, Kenichi, 3,691,463.
- Takahashi, Kensaku; and Yoshida, Kenichi, 3,694,751.
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Asai, Hidekazu, 3,641,634.
- Ebata, Hiroyuki, 3,680,510.
- Kawakami, Koichi, 3,685,814.
- Yoshida, Keiichi, 3,671,347.
- Yoshida, Makoto: *See—*
Shiba, Keisuke; Hinata, Masanao; Yoshida, Makoto; Imai, Shinichi; Sato, Akira; and Watanabe, Shigaru, 3,682,640.
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Yamashita, Toshio; Ohtani, Tadao; Yoshida, Manabu; Kitamura, Saburo; and Murakami, Hideaki, 3,636,492.
- Yoshida, Masaji: *See—*

- Yamamoto, Nobuo; Nishio, Fumihiko; Yoshida, Masaji; and Kawano, Hideo, 3,656,956.
- Yoshida, Masaru: *See—*
- Ito, Akihiko; Nakase, Yoshiaki; Kojima, Katsumi; Yoshida, Masaru; Iwai, Tadashi; Hayashi, Koichiro; and Okamura, Seizo, 3,677,922.
- Ito, Akihiko; Yoshida, Masaru; Nakase, Yoshiaki; Iwai, Tadashi; Miura-Gun, Kanagawa-Ken; Hayashi, Koichiro; and Okamura, Seizo, 3,684,767.
- Ito, Akihiko; Nakase, Yoshiaki; Yoshida, Masaru; Sakamoto, Masahiro; Kaetsu, Isao; Iwai, Tadashi; Hayashi, Koichiro; and Okamura, Seizo, 3,686,085.
- Nakase, Yoshiaki; Yoshida, Masaru; Ito, Akihiko; and Okamura, Seizo, 3,652,436.
- Nakase, Yoshiaki; Yoshida, Masaru; Ito, Akihiko; Iwai, Tadashi; Hayashi, Koichiro; Okamura, Seizo; and Kojima, Katsumi, 3,703,454.
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- Yoshida, Michio: *See—*
- Kozu, Haruo; Kimura, Morio; Watanabe, Tadashi; Naozumi, Hiratsuka; and Yoshida, Michio, 3,655,596.
- Yoshida, Mikihiro: *See—*
- Sugimoto, Kaname; Yoshida, Mikihiro; and Kurimoto, Masashi, 3,632,475.
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- Yoshida, Muneco: *See—*
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- Yoshida, Ryonosuke: *See—*
- Maeda, Itsutoshi; Miyayashiki, Hideshi; and Yoshida, Ryonosuke, 3,646,061.
- Maeda, Itsutoshi; Nomura, Yasuichi; Hashimoto, Kohei; Shimizu, Akira; Mitsugi, Koji; and Yoshida, Ryonosuke, 3,707,505.
- Yoshida, Ryonosuke; Takehara, Masahiro; Akiba, Hitoshi; and Usuba, Yasunori, to Ajinomoto Co., Inc. Detergent bar. 3,663,459, 5-16-72, Cl. 252-546.
- Yoshida, Saburo: *See—*
- Shimauchi, Shiro; Yoshida, Saburo; and Muro, Koji, 3,669,611.
- Yoshida, Seisaku: *See—*
- Inaba, Kohsaku; Yoshida, Seisaku; Matsura, Shoji; and Murakami, Tsukasa, 3,679,005.
- Yoshida, Shigeaki: *See—*
- Maryama, Shoji; Saito, Tadashi; Yoshida, Shigeaki; and Shimada, Masaru, 3,699,000.
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- Tachikawa, Takuji; Ohgoshi, Akio; Yoshida, Susumu; Nakayama, Akira; and Ishii, Eiji, 3,638,063.
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- Okuda, Kensuke; Yoshida, Tadaaki; and Sugawara, Katsuyuki, 3,682,595.
- Okuda, Kensuke; Yoshida, Tadaaki; and Sugawara, Katsuyuki, 3,694,862.
- Yoshida, Takaomi: *See—*
- Shimizu, Tetsuji; Yoshida, Takaomi; Otake, Sugako; Sumida, Hajime; and Ueno, Sinichi, 3,694,690.
- Yoshida, Tokuji: *See—*
- Yoshida, Zenzo; Miyazaki, Hiroshi; Yoshida, Tokuji; and Kobayashi, Hiroaki, 3,635,007.
- Yoshida, Tomio: *See—*
- Nishiyama, Akira; Yoshino, Hirokazu; Yoshida, Tomio; and Yamaguchi, Tetsuo, 3,638,196.
- Yoshino, Hirokazu; and Yoshida, Tomio, 3,646,329.
- Yoshino, Hirokazu; and Yoshida, Tomio, 3,660,767.
- Yoshida, Toshiro: *See—*
- Sakomura, Toshio; Yoshida, Toshiro; Fujita, Yoshihiro; and Shinbara, Hideo, 3,696,173.
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- Oishi, Yasushi; Yoshida, Yoshinobu; and Sano, Kazuya, 3,642,485.
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- Yamada, Shigeki; Miyazawa, Kokichi; Naka, Hideaki; and Yoshida, Yoshio, 3,660,078.
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- Kitazawa, Tohru; Maeda, Hiroshi; Yoshidome, Hideo; and Sakata, Hidehiko, 3,657,178.
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- Yoda, Naoya; Kubota, Takashi; Kurihara, Masaru; Dokoshi, Noriaki; and Yoshihi, Toshiya, 3,682,860.
- Yoshii, Hiroe: *See—*
- Shiro, Teruo; Takinami, Koichi; Akutsu, Eiichi; Yoshii, Hiroe; and Yamada, Yasutsugu, 3,704,205.
- Yoshii, Hiroshi: *See—*
- Yoshimoto, Toshio; Kaneko, Seiya; Sasaki, Takashi; Narumiya, Tsuneaki; Yoshii, Hiroshi; and Takamatsu, Tetsuya, 3,652,517.
- Yoshii, Kunio: *See—*
- Keshi, Akizo; Yoshii, Kunio; Yokoo, Makoto; and Nakai, Kaichi, 3,703,484.
- Yoshii, Tetsuji, to Matsushita Electric Industrial Co., Ltd. Brake device in tape recorder. 3,651,899, 3-28-72, Cl. 188-77.
- Yoshii, Tetsuji, to Matsushita Electric Industrial Co., Ltd. Tape termination alarm device. 3,660,810, 5-2-72, Cl. 340-259.
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- Yoshii, Toshiya: *See—*
- Minami, Muneyoshi; Taniguchi, Masaharu; Tsutsomi, Tadao; Murakami, Masakazu; and Yoshii, Toshiya, 3,673,145.
- Yoshikawa, Isamu: *See—*
- Nishimaki, Ko; and Yoshikawa, Isamu, 3,670,917.
- Yoshikawa, Kaoru: *See—*

- Seikguchi, Masaaki; Yoshikawa, Kaoru; and Komatsu, Akira, 3,679,133.
- Yoshikawa, Kengi; and Hayashi, Etsuo, to Sumitomo Electric Industries, Ltd. and Goshi Kaisha Yoshikawa Seimitsu Kohsakuho. Metal bearing insert. 3,704,048, 11-28-72, Cl. 308-72.000.
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- Yoshikawa, Kyunojo: *See—*
- Mizuno, Kaoru; Kitamura, Tetsuo; Nakao, Shoichi; Yasuda, Takeko; and Sakata, Kazuhiro, 3,662,905.
- Yoshikawa, Minoru: *See—*
- Iwawaki, Yasutaka; Yoshikawa, Minoru; and Usui, Yukio, 3,701,860.
- Tsuji, Takao; and Yoshikawa, Minoru, 3,705,272.
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- Yoshikawa, Seishiro: *See—*
- Ota, Masanori; and Yoshikawa, Seishiro, 3,649,647.
- Yoshikawa, Shinsuke; and Sawa, Yuji, to Kureha Kagaku Kogyo Kabushiki Kaisha. Apparatus for trimming opening rims of synthetic-resin containers. 3,653,285, 4-4-72, Cl. 82-101.
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- Yoshikawa, Shogo: *See—*
- Matsumura, Hiroyoshi; Yoshikawa, Shogo; and Tatsumi, Ryuji, 3,637,295.
- Miyauchi, Tsuneshige; Hirano, Jiro; Ueki, Atsufumi; Tatsumi, Ryuji; Mukai, Kunihiro; and Yoshikawa, Shogo, 3,655,259.
- Uchida, Teiji; Furukawa, Motoaki; Yoshikawa, Shogo; Kitano, Ichiro; and Koizumi, Ken, 3,633,992.
- Uchida, Teiji; Yoshikawa, Shogo; and Ueki, Atsufumi, 3,644,842.
- Yoshikawa, Shoichi: *See—*
- Furth, Harold P.; and Yoshikawa, Shoichi, 3,702,163.
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- Yoshikawa, Tatsuya: *See—*
- Mori, Takashi; and Yoshikawa, Tatsuya, 3,706,077.
- Yoshikawa, Yoshio; Kondo, Hiroshi; Sugio, Akitoshi; and Kato, Tomotake, to Mitsubishi Edogawa Kagaku Kabushiki Kaisha. Apparatus for treating a mixture. 3,664,035, 5-23-72, Cl. 34-92.
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- Yoshimine, Masao: *See—*
- Hatch, Melvin J.; Yoshimine, Masao; Smith, Hugh B.; and Schmidt, Donald L., 3,636,052.
- Yoshimitsu, Matsumoto: *See—*
- Oku, Takeshi; Kazushige, Hirasawa; and Yoshimitsu, Matsumoto, 3,692,973.
- Yoshimori, Nobuo; Nagayama, Tsuguo; and Sato, Toshio, to Kabushiki Kaisha Sato Seisakusho. Gas-separating method and apparatus therefor. 3,680,695, 8-1-72, Cl. 209-139.00a.
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- Yoshimura, Hirofumi: *See—*
- Kodaira, Kiju; and Yoshimura, Hirofumi, 3,690,232.
- Yoshimura, Hirofumi; and Yakahata, Hisatoshi, to Yashica Company Limited. Shutter operating circuit having means to close shutter when light is insufficient. 3,673,415, 6-27-72, Cl. 250-214.00p.
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- Yoshimura, Kiyokazu: *See—*
- Tanimura, Shigeru; Maejima, Norio; Yoshimura, Kiyokazu; and Hinoda, Seiuke, 3,639,867.
- Yoshimura, Koichi, to Matsushita Electric Industrial Co., Ltd. Magnetically controlled thermal relay. 3,633,143, 1-4-72, Cl. 337-366.
- Yoshimura, Masao: *See—*
- Tsuda, Motohisa; and Yoshimura, Masao, 3,675,027.
- Yoshimura, Noboru, to Aisin Seiki Kabushiki Kaisha. Door latch mechanisms. 3,705,738, 12-12-72, Cl. 292-216.000.
- Yoshimura, Shigetake: *See—*
- Tadokoro, Tomoo; Hayashida, Motoyuki; and Yoshimura, Shigetake, 3,657,893.
- Yoshimura, Shigetake, to Toyo Kogyo Co., Ltd. Distributor device with vacuum advance mechanism operated switch structure attached to housing. 3,702,385, 11-7-72, Cl. 200-31.000.
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- Yoshimura, Tatsushiro: *See—*
- Izumo, Masanori; and Yoshimura, Tatsushiro, 3,674,762.
- Yoshimura, Toru: *See—*
- Nakajima, Yasuo; Hayashi, Yoshimasa; Yoshimura, Toru; Sugihara, Kunihiro; and Nagumo, Shin-ichi, 3,680,318.
- Yoshinaga, Fumihoro: *See—*
- Okumura, Shinji; Otsuke, Shinichiro; Yamanoi, Akio; Yoshinaga, Fumihoro; Honda, Takeshi; Kubota, Koji; and Tsuchida, Takayasu, 3,660,235.
- Yoshinaga, Masakazu: *See—*
- Ueshima, Kumao; Fukada, Kenzo; Yoshinaga, Masakazu; and Nakazona, Kiroshi, 3,701,516.
- Yoshinaga, Tetsuo: *See—*
- Yamamura, Yuichi; Yoshinaga, Tetsuo; Tsunoda, Kiyoshi; Tsutsumi, Yoshiatsu; and Hoji, Kazuhiko, 3,636,208.
- Yoshinari, Osamu: *See—*
- Matsushita, Fukusaburo; Saji, Yasuo; Saito, Kazuhisa; Tanaka, Kozo; and Yoshinari, Osamu, 3,702,880.
- Yoshino, Akira: *See—*
- Setone, Isami; and Yoshino, Akira, 3,689,855.
- Yoshino, Akira, to Matsushita Electric Works, Ltd. Push button type circuit protector. 3,688,234, 8-29-72, Cl. 335-202.000.
- Yoshino, Hirokazu: *See—*
- Nishiyama, Akira; Yoshino, Hirokazu; Yoshida, Tomio; and Yamaguchi, Tetsuo, 3,638,196.
- Yoshino, Hirokazu; and Yoshida, Tomio, to Matsushita Electric Industrial Co., Ltd. Adaptive logic circuit. 3,646,329, 2-29-72, Cl. 235-150.1.
- Yoshino, Hirokazu; and Yoshida, Tomio, to Matsushita Electric Industrial Co., Ltd. Frequency divider circuit system. 3,660,767, 5-2-72, Cl. 328-15.
- Yoshino, Hiroshi: *See—*
- Tamura, Kiminori; Morozumi, Manami; Noda, Yutaka; Suzuki, Morio; and Yoshino, Hiroshi, 3,701,772.
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- Yoshino, Masataka; Kamiya, Akimi; Ogawa, Nin; Oguri, Atsushi; and Muramatsu, Shigeo, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for effecting continuous and simultaneous transfer of heat and moisture between two air streams. 3,666,007, 5-30-72, Cl. 16-166.000.
- Yoshino, Masatsugu: *See—*
- Nagamatsu, Kazuo; Yoshino, Masatsugu; Konno, Tsugio; and Ishida, Shinichi, 3,647,743.
- Yoshino, Motohisa: *See—*
- Hamada, Yoshio; and Yoshino, Motohisa, 3,686,392.
- Yoshino, Stanley Y., to North American Rockwell Corporation. Apparatus for forming layup laminate. 3,666,600, 5-30-72, Cl. 156-382.
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- Hashimoto, Hideo; Kasahara, Nobuo; and Yoshino, Toshio, 3,679,369.
- Yoshio, Furuto: *See—*
- Takuya, Suzuki; Masaru, Ikeda; Yoshio, Furuto; Yukihiko, Nagata; and Takeshi, Miura, 3,682,719.

- Yoshio Tomonaga President of Agency of Industrial Science and Technology: *See—*
Oguchi, Yutaka; and Kubo, Junichi, 3,639,230.
- Yoshioka, Kimio: *See—*
Nakajima, Tositaka; Okubo, Tomoyuki; Kobayashi, Manabu; and Yoshioka, Kimio, 3,663,943.
- Yoshioka, Takao: *See—*
Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kurumada, Tomoyuki; Watanabe, Ichiro; and Ohta, Noriyuki, 3,640,928.
- Murayama, Keisuke; Morimura, Syoji; Yoshioka, Takao; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; and Watanabe, Ichiro, 3,692,778.
- Yoshioka, Teruhiko: *See—*
Matsuzawa, Hideo; Itoh, Hiroto; and Yoshioka, Teruhiko, 3,647,640.
- Yoshioka, Tsunehiko; Satou, Hisashi; and Suda, Naoki, to TDK Electronics Company, Limited. Ceramic dielectric compositions comprising calcium, lanthanum and lead titanates. 3,660,124, 5-2-72, Cl. 106-39.
- Yoshioka, Yoshio: *See—*
Marumoto, Ryuji; Yoshioka, Yoshio; Aoki, Hisashi; and Toda, Jun, 3,644,331.
- Marumoto, Ryuji; Yoshioka, Yoshio; Aoki, Hisashi; and Toda, Jun, 3,690,900.
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- Yoshioka, Yoshiro: *See—*
Kawai, Hidetoshi; Iizuka, Hajime; Shinkai, Takuo; and Yoshioka, Yoshiro, 3,665,398.
- Yoshida, Manabu: *See—*
Yamashita, Oshio; Yoshida, Manabu; Hasegawa, Nobuo; and Kitamura, Saburo, 3,668,408.
- Yoshitake, Hiroshi: *See—*
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,647,866.
- Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dohgane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,662,000.
- Yoshitake, Juichi: *See—*
Imai, Tomio; Shimamura, Mutsuo; Yoshitake, Juichi; and Ohiwa, Hitoshi, 3,669,845.
- Yoshitake, Norito: *See—*
Inaba, Seiueemon; Yoshitake, Norito; Imazeki, Ryoji; and Kozai, Yoshinori, 3,636,525.
- Yoshitake, Norito; Imazeki, Ryoji; and Ishida, Hiroshi, to Fujitsu Limited. Digital pulse signal transmission circuit. 3,705,418, 12-5-72, Cl. 307-237.000.
- Yoshitomi Pharmaceutical Industries, Ltd.: *See—*
Nakanishi, Michio; Kobayakawa, Toshihiro; and Tahara, Tetsuya, 3,632,592.
- Nakanishi, Michio; and Tashiro, Chiaki, 3,637,713.
- Nakanishi, Michio; Kobayashi, Ryosuke; Abe, Kozo; and Mukai, Toshihiko, 3,641,060.
- Nakanishi, Michio; Arimura, Katsuo; Tsumagari, Tatsumi; and Shiroki, Masami, 3,651,052.
- Nakanishi, Michio; Tahara, Tetsuya; Imamura, Hiroshi; and Maruyama, Yutaka, 3,655,681.
- Nakanishi, Michio; Tahara, Tetsuya; Imamura, Hiroshi; and Maruyama, Yutaka, 3,655,682.
- Nakanishi, Michio; Arimura, Katsuo; and Okada, Tadao, 3,661,902.
- Nakanishi, Michio; and Tashiro, Chiaki, 3,668,210.
- Nakanishi, Michio; Oe, Takanori; and Maruyama, Yutaka, 3,678,077.
- Nakanishi, Michio; and Mukai, Toshihiko, 3,702,333.
- Nakanishi, Michio; Munakata, Tomohiko; and Setoguchi, Shinro, 3,706,764.
- Yoshiwa Kogyo Kabushiki Kaisha: *See—*
Gomada, Nobuyasu, 3,658,451.
- Yoshiya, Yoshio; Ishida, Yoshiyuki; and Ito, Masamichi, to Matsushita Denko Kabushiki Kaisha. Distribution device. 3,639,885, 2-1-72, Cl. 339-21.
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- Yoshizaki, Kazuhiro: *See—*
Yamaguchi, Goro; Komatsu, Susumu; Yoshizaki, Kazuhiro; and Fukumoto, Tetsuo, 3,694,379.
- Yoshizaki, Takayoshi: *See—*
Inoi, Takeshi; Sueyoshi, Koji; Fujii, Masahiro; Shoji, Kenjiro; Shudo, Akio; Yoshizaki, Takayoshi; and Yutaka, Matsuo, 3,703,518.
- Yosho, Minoru: *See—*
Urushiyama, Nobuo; Yosho, Minoru; and Miyata, Takamitsu, 3,653,984.
- Yosida, Akio: *See—*
Tsuda, Minoru; Yosida, Akio; and Yuki, Takamitsu, 3,671,468.
- Yosimoto, Kenji: *See—*
Hatano, Isao; Nagano, Akira; and Yosimoto, Kenji, 3,705,298.
- Hatano, Isao; Nagano, Akira; and Yosimoto, Kenji, 3,707,622.
- Yoskowitz, Jacob. Combination tool. 3,693,388, 9-26-72, Cl. 72-70.000.
- Yost, Clyde E. Automatic pump control. 3,679,325; 7-25-72, Cl. 417-17.000.
- Yost, Clyde E. Bone plate. 3,695,259, 10-3-72, Cl. 128-92.00d.
- Yost, De Witt M.: *See—*
Rowsam, Kenneth P.; and Yost, De Witt M., 3,677,887.
- Yost, Edward F., Jr., to Spectral Data Corporation. Multispectral photography. 3,700,438, 10-24-72, Cl. 96-2.000.
- Yost, Edward F., Jr., to Spectral Data Corporation. Obtaining ground truth for multispectral photography. 3,703,133, 11-21-72, Cl. 95-12.500.
- Yost, Lloyd H.: *See—*
Bartlett, William F.; Gifford, John C.; Lenk, Pedro A.; Oswald, William A.; Shaw, Frank Y.; Stuebe, Thomas D.; and Yost, Lloyd H., 3,662,349.
- Yost, Marshall E.: *See—*
Dunham, Kenneth R.; Newcomb, Richard A.; and Yost, Marshall E., 3,702,766.
- Yost, Paul E. Inflatable display. 3,670,440, 6-20-72, Cl. 40-215.000.
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- Yotsubayashi, Hiroyuki: *See—*
Ito, Kazuo; and Yotsubayashi, Hiroyuki, 3,662,473.
- Yotsui, Yoshikazu: *See—*
Fujita, Hideo; Ishitobi, Masami; Suga, Hiroyoshi; Ishiwari, Keishiro; Yotsui, Yoshikazu; Yamashita, Tadao; Edamitsu, Masayuki; and Moriwaki, Shokichi, 3,701,720.
- Yotsumoto, Takashi: *See—*
Miyazaki, Toshio; Omura, Etuzou; Katakabe, Kyoku; Makita, Minoru; Iwase, Kenji; Tsutsumiviti, Hideo; Yotsumoto, Takashi; Ikeda, Fumiaki; Takashima, Yoshiro; Sueyoshi, Hiromu; and Maesaka, Tomio, 3,689,620.
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Takamizawa, Hideo; Yotsuyanagi, Keiichi; and Okada, Takashi, 3,639,247.
- Youden, David H.: *See—*
Hahn, Robert S.; Youden, David H.; and St. Andre, Arthur F., 3,644,049.
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Bell, Charles Anthony; and Young, Anthony David, 3,643,076.
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Cooper, Alfred R.; and Young, Charles Gilbert, 3,646,472.
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- Young, Claude S.: *See—*
Mills, Harold E.; and Young, Claude S., 3,693,690.
- Young, Clinton J. T.: *See—*
Danko, Joseph O., Jr.; and Young, Clinton J. T., 3,694,072.
- Young, Clyde L., to Ranco Incorporated. Control apparatus for delaying restart of refrigerating apparatus. 3,631,685, 1-4-72, Cl. 62-158.
- Young, David E., to Schlumberger Technology Corporation. Well packer. 3,631,926, 1-4-72, Cl. 166-134.
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Chambers, Robert R.; Isaacson, Henry V.; and Young, David W., 3,640,973.
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- Gower, Howard D.; Gower, Bob G.; and Young, David W., 3,645,897.
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- Young, David W.; Strand, Robert C.; and Marion, Donald L., to Atlantic Richfield Company. Heat and light stabilized vinyl halide composition. 3,632,839, 1-4-72, Cl. 260-898.
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Baxendale, Albert Edward; and Young, Edward John, 3,702,603.
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- Young, Elgin E.: *See—*
Darr, Donald E.; Edwards, G Byron; Loehr, Clifford E.; and Young, Elgin E., 3,640,745.
- Young, Elwyn Richard: *See—*
Scanlon, Patricia M.; and Young, Elwyn Richard, 3,636,015.
- Scanlon, Patricia M.; and Young, Elwyn Richard, 3,641,103.
- Young, Eugene F.: *See—*
Pitasi, Carl R.; and Young, Eugene F., 3,633,543.

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- Young, Eugene F., to Xerox Corporation. Transfer apparatus. 3,640,249, 2-8-72, Cl. 118-637.
- Young, Eugene F., to Xerox Corporation. Reflex exposure medium. 3,704,066, 11-28-72, Cl. 355-11,000.
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Summers, Charles Gene; and Young, Evan Johnson, 3,632,553.
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- Young, Frank L. Light weight expansible mailing envelope. 3,648,923, 3-14-72, Cl. 229-75.
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- Young, Fred M.; Astrup, William V.; and Jones, Ronald E., to Young Radiator Company. Apparatus for forming sheet-metal finstrips for heat-exchangers. 3,650,233, 3-21-72, Cl. 113-1.
- Young, Gary Clifford; and Klempeter, Joseph A., to Continental Oil Company. Adsorption process for recovering easy-to-regenerate condensable components from a multicomponent gas stream. 3,696,587, 10-10-72, Cl. 55-62,000.
- Young, Geoffrey Tyndale, to National Research Development Corporation. Process for the synthesis of peptides using 4-pyridyl-methyl and related groups for the protection of C-terminal carboxyl groups. 3,655,636, 4-11-72, Cl. 260-112.5.
- Young, George, to Needle Industries Limited. Felting needle mounting means. 3,654,678, 4-11-72, Cl. 28-4.
- Young, George Ralph, Jr., to American Chemical & Refining Company Incorporated. Adjustable frame for thin sheet electrodes. 3,677,929, 7-18-72, Cl. 204-286,000.
- Young, Harold K.: See—
Wald, Herbert; Young, Harold K.; and Blanch, William O., 3,693,955.
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- Young, Herbert, to Kilde, Walter, & Company, Inc. Storage system. 3,677,202, 7-18-72, Cl. 108-109,000.
- Young, Herbert D.: See—
Whysong, Dale C.; Leininger, Dale E.; and Young, Herbert D., 3,674,559.
- Young, Howard S.: See—
Dietl, Hans K.; and Young, Howard S., 3,700,701.
- Young, Howard S.; Anderson, George C.; and McDaniel, Edgar L., to Eastman Kodak Company. Process for preparing acrylic acid. 3,668,245, 6-6-72, Cl. 260-533,000.
- Young, Ira Bruce, Jr. Wire correspondence tray. 3,704,791, 12-5-72, Cl. 211-126,000.
- Young, James, to Ren Plastics, Inc. Carvable epoxy resin compositions. 3,652,486, 3-28-72, Cl. 260-32.6.
- Young, James C., to Iowa State University Research Foundation, Inc. System for measuring BOD by electrolysis. 3,668,102, 6-6-72, Cl. 204-195,00b.
- Young, James E., to Xerox Corporation. Color printing system. 3,642,377, 2-15-72, Cl. 355-88.
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- Young, James M. Method of making multiple tendon, prestressed segmented concrete beam. 3,639,973, 2-8-72, Cl. 29-452.
- Young, James Roger, to General Electric Company. Hydrocarbon responsive getter ion pump. 3,672,789, 6-27-72, Cl. 417-51,000.
- Young, James W.; Cason, George A.; and Kunkel, Ernest O., to Dresser Industries, Inc. Earth boring machine. 3,659,661, 5-2-72, Cl. 175-85.
- Young, Jeffrey W.: See—
Putnam, Robert C.; and Young, Jeffrey W., 3,676,389.
- Young, Jerry W., to Phillips Petroleum Company. Apparatus for sealing paperboard containers. 3,664,901, 5-23-72, Cl. 156-443.
- Young, John, III, to Murdock Machine & Eng. Co. Stress-corrosion tester. 3,685,969, 8-22-72, Cl. 23-253,00c.
- Young, John Ralph: See—
Hynam, Brian Michael; Wilby, John Leslie; and Young, John Ralph, 3,684,722.
- Young, John S., to Victaulic Company of America. Joints between pipes of different diameters and couplings and gaskets for the same. 3,680,894, 8-1-72, Cl. 285-112.
- Young, John T.; Michels, Charles E.; Zimmerman, Thomas C.; and Hagemann, Gilbert M., to Wrapping Machinery Company, Inc. Reversible manual and automatic labeling machine with weigher. 3,693,737, 9-26-72, Cl. 177-52,000.
- Young, Joseph V., and Johnson, Richard M. Inflatable surgical cast. 3,643,656, 2-22-72, Cl. 128-90.
- Young, Kenneth K., Jr.: See—
Bishop, Thomas H.; and Young, Kenneth K., Jr., 3,662,816.
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United States of America, National Aeronautics and Space Administration, 3,699,511.
- Young, Laurence R.; and Newman, Joel S. Method for monitoring movement of a subject eye. 3,689,135, 9-5-72, Cl. 351-39,000.
- Young, Maurice A., to Dunlop Holdings Limited. Method of forming reinforcing yarns or cords. 3,648,452, 3-14-72, Cl. 57-164.
- Young, Maurice A., to Dunlop Holdings Limited. Pneumatic tires. 3,669,173, 6-13-72, Cl. 152-361,000.
- Young, Michael A. B.; and Dunsmuir, George H., to British Hovercraft Corporation Limited. Fluid supported load systems. 3,648,799, 3-14-72, Cl. 180-118.
- Young, Michael Arthur Bennett: See—
Furlong, Owen Desmond Arthur Charles; and Young, Michael Arthur Bennett, 3,633,603.
- Young, Morris D.: See—
Hansen, Charles N.; Young, Morris D.; and Granger, James E., 3,679,593.
- Young, N Keith: See—
Hall, Charles H.; Young, Albert L.; and Young, N Keith, 3,699,581.
- Young, Noble E. Process and apparatus for treating oil emulsions. 3,637,522, 1-25-72, Cl. 252-328.
- Young, Norman R.: See—
Von Stein, Gene B.; and Young, Norman R., 3,645,554.
- Young, Norman S., Jr. Locking tongs. 3,649,062, 3-14-72, Cl. 294-106.
- Young, Oswald William John: See—
Arber, Scott Gordon; and Young, Oswald William John, 3,692,474.
- Young, Patrick J.: See—
Keller, Harold A.; and Young, Patrick J., 3,666,592.
- Keller, Harold A.; and Young, Patrick J., 3,681,174.
- Young, Patrick Richard: See—
Swett, Leo Ralph; Ratajczyk, James Daniel; and Young, Patrick Richard, 3,686,171.
- Young, Paul G.: See—
Hensley, Justin C., Jr.; and Young, Paul G., 3,655,517.
- Young Radiator Company: See—
Christensen, Donald W., 3,670,811.
- Young, Fred M., 3,633,660.
- Young, Fred M.; Astrup, William V.; and Jones, Ronald E., 3,650,233.
- Young, Raymond H., Jr.; Markhart, Albert H.; and Martins, Joseph G., to Monsanto Company. Substrates protected with prepared polymeric ultraviolet light stabilizers from phenol-formaldehyde condensates. 3,650,799, 3-21-72, Cl. 117-33.3.
- Young, Raymond H., Jr., to Monsanto Company. Substrates coated with a poly(vinyl-halobenzal) based composition. 3,685,990, 8-22-72, Cl. 96-1,800.
- Young, Richard A.: See—
Hall, Roger P.; Pratt, Ivor; and Young, Richard A., 3,669,796.
- Young, Richard C.: See—
Elmore, Clifford L.; and Young, Richard C., 3,696,756.
- Young, Richard G.: See—
Faul, Thomas L.; and Young, Richard G., 3,686,675.
- Young, Richard K., to Phillips Petroleum Company. Heating parison preforms in liquid fluorinated organic compound. 3,655,480, 4-11-72, Cl. 156-256.
- Young, Richard K.; and Dockery, Calvin D., to Phillips Petroleum Company. Surface treatment of interior of parison preform. 3,655,848, 4-11-72, Cl. 264-98.
- Young, Richard N.: See—
Newcomb, Arthur L., Jr.; and Young, Richard N., 3,670,253.
- Young, Richard S., to Saginaw Products Corporation. Baggage cart. 3,689,106, 9-5-72, Cl. 280-179,00r.
- Young, Richard W.; and Malin, Murray E., to Polaroid Corporation. Photographic film exposure and viewing systems using coded film cassette. 3,672,752, 6-27-72, Cl. 352-72,000.
- Young, Robert L.; Wood, Russell E.; Farney, Samuel D.; and Hogan, Arnold U., to Carrier Corporation. Frame for rooftop air conditioner. 3,702,211, 11-7-72, Cl. 312-257,000.
- Young, Robert Leonard: See—
Evans, Ross Hugh; Seltzer, Daniel Arron; and Young, Robert Leonard, 3,700,816.
- Young, Robert M.: See—
Fridman, Jonathan D.; Kinnard, Kenneth F.; Meister, Kurt A.; and Young, Robert M., 3,649,919.
- Young, Robert R., to Kaiser Industries Corporation. Containerized cargo storage and handling system. 3,631,993, 1-4-72, Cl. 214-16.4.
- Young, Robert R.; and English, William A., to Westinghouse Electric Corporation. Combined flexible and magnetic drive coupling. 3,643,120, 2-15-72, Cl. 310-96.
- Young, Robert R., to Kaiser Industries Corporation. Method of handling and storing containers at a shipping terminal. 3,669,288, 6-13-72, Cl. 214-152,000.
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- Young, Robert W.: See—
Deeg, Emil W.; and Young, Robert W., 3,694,179.

- Young, Robert William, to Autic Developments Limited. Liquid dispenser with separably attached measuring device. 3,667,658, 6-6-72, Cl. 222-569.
- Young, Roger W., to Dusenbery, John, Company, Inc. Cutting knife for slitting metal foil. 3,651,728, 3-28-72, Cl. 83-474.
- Young, Ronald W.: See—
Sylvester, Robert A.; and Young, Ronald W., 3,637,998.
- Young, Roy W., Jr. Method for fabricating a self-aligning bearing. 3,683,474, 8-15-72, Cl. 29-149,50b.
- Young Rubber Company: See—
Susin, Victor G., 3,661,487.
- Young, Sherwood L., to American Standard, Inc. Flush tank apparatus. 3,654,637, 4-11-72, Cl. 4-18.
- Young Spring & Wire Corporation: See—
Tischler, Henry J., 3,638,999.
- Young, Stephen A.: See—
Christiansen, Gerald E., 3,693,197.
- Young, Stephen A. Connection for spout adjustment. 3,640,305, 2-8-72, Cl. 137-360.
- Young, Vernon V., to Commercial Solvents Corporation. Separation of mixed diastereoisomers of zearalanol. 3,687,982, 8-29-72, Cl. 260-343,20f.
- Young, Virgil F.; and Pebenito, Amabel A. Magnetic card reader-recorder. 3,646,323, 2-29-72, Cl. 235-61,11.
- Young, Walter A. Seed planter-failure detector. 3,704,459, 11-28-72, Cl. 340-271,000.
- Young, Warren L.: See—
Blanchard, Robert R.; and Young, Warren L., 3,682,924.
- Cornay, Clement J.; Guy, Allen R.; and Young, Warren L., 3,652,728.
- Young, Warren L.; Kennedy, James S.; Carnahan, Norman F.; and Blanchard, Robert R., to Dow Chemical Company, The. Post-chlorination of vinyl chloride resins in aqueous suspension. 3,632,848, 1-4-72, Cl. 260-92.8.
- Young, Wiels D. Flute. 3,685,388, 8-22-72, Cl. 84-384,000.
- Young, William D., Jr.: See—
Kronish, Donald P.; and Young, William D., Jr., 3,645,853.
- Young, William E.: See—
Brick, Edmund J., 3,675,528.
- Pasco, William R.; and Wolfesperger, Robert O., 3,634,993.
- Wolfesperger, Robert O., 3,686,822.
- Young, William E.; and Mahaffy, Reid A., 52% to Mahaffy, Reid A., 25% to Harder, John R. and 24% to American Can Company. Evacuated hermetically sealed package with semirigid shell and stretchable closure. 3,695,900, 10-3-72, Cl. 99-174,000.
- Young, William E.; and Jezuit, Arthur D., to Grace, W. R., & Co. Packaging machine and method of forming packages. 3,706,174, 12-19-72, Cl. 53-112,00r.
- Young, William E. L. Sporting apparatus. 3,663,031, 5-16-72, Cl. 280-11.24.
- Young, William G.; and Horning, Frederick G., to Salem Tool Company, The. Drive for plural auger mining machine. 3,663,062, 5-16-72, Cl. 299-57.
- Young, William G., to Salem Tool Company, The. Locking device for auger latches. 3,685,865, 8-22-72, Cl. 287-119,000.
- Young, William O., Jr.; and Quattlebaum, Walter J., to Deering Milliken Research Corporation. Pull tab machine. 3,675,836, 7-11-72, Cl. 226-113,000.
- Young, William O., Jr.; and Quattlebaum, Walter J., to Deering Milliken Research Corporation. Punching openings in a web and heat sealing tabs thereto. 3,676,251, 7-11-72, Cl. 156-252,000.
- Young, William O., Jr., to Deering Milliken Research Corporation. Pull tab paper. 3,702,654, 11-14-72, Cl. 206-59,00f.
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- Youngman, Gary: See—
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- Youngquist, John A.: See—
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- Cullen, Roy H.; Aker, Jimmie R.; and Burke, William E., 3,669,199.
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- La Camera, Alfred F.; and Semer, Joseph R., 3,687,103.
- Pryor, Dale H., 3,638,288.
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- Yount, Orin A. Foldable canopy attachment for a pick-up truck. 3,690,719, 9-12-72, Cl. 296-23,00f.
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- Hoppin, George S., III; Yount, Reed E.; Berry, Thomas F.; and Barker, James F., 3,692,501.
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- Yoviene, Salvatore J. Vehicle bumper. 3,706,468, 12-19-72, Cl. 293-88,000.
- Yowell, Gordon H., to Sperry Rand Corporation. Power transmission. 3,644,067, 2-22-72, Cl. 417-370.
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Yuge, Yooji, to Tokyo Shibaura Electric Co., Ltd. Halogen lamp. 3,644,772, 2-22-72, Cl. 313-174.

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Yamanaka, Sadajiro, 3,665,648.

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Okabe, Tsuneo, 3,642,421.

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Yukami, Noboru, to Matsushita Electric Industrial Co., Ltd. Stress sensitive semi-conductor element having a reduce cross-sectional area. 3,699,405, 10-17-72, Cl. 317-235.00r.

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Kosui, Tsuguo; Seki, Masahiro; Takamatsu, Shuji; and Kojima, Sakusaburo, 3,682,196.

Yuki, Hiroshi: See—

Nakanishi, Michio; Yuki, Hiroshi; and Muro, Tomio, 3,663,533.

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Takuya, Suzuki; Masaru, Ikeda; Yoshio, Furuto; Yukihiro, Nagata; and Takeshi, Miura, 3,682,719.

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Van Dam, Max; and Yung, Diana S. Y., 3,661,879.

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Owens, Abner, Jr.; and Yurasek, John F., 3,648,231.

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Titchenal, Oliver R.; Widiger, Aimar T.; and Yurcisin, Robert A., 3,681,092.

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Yurkoski, Frank R.; Coyle, Edward L.; Needham, Robert F.; and Rollins, Dallas W., to ACF Industries, Incorporated. Insulating structure for interior of railway freight cars. 3,687,087, 8-29-72, Cl. 105-355.000.

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Imai, Yoshio; Matsumura, Haruki; Yurugi, Shojiro; and Miyake, Akio, 3,697,530.

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Amagi, Yasuo; Ohya, Masaki; Shiiki, Zenya; and Yusa, Haruhiko, 3,671,610.

Tanaka, Takashi; and Yusa, Haruhiko, 3,652,483.

Tanaka, Takashi; and Yusa, Haruhiko, 3,657,390.

Yusa, Makoto: See—

Shibata, Minoru; Yusa, Makoto; Nakata, Hisao; and Harada, Michisuke, 3,705,866.

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Shimomura, Yoshisada, 3,641,489.

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Ghoshtagore, Rathindra N.; and Yut, Robert F., 3,650,815.

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Goshima, Takeshi; Iwakawa, Yasutaka; and Yutaka, Kohtani, 3,702,506.

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Inoi, Takeshi; Sueyoshi, Koji; Fujii, Masahiro; Shoji, Kenjiro; Shudo, Akio; Yoshizaki, Takayoshi; and Yutaka, Matsuo, 3,703,518.

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Orr, LaVern G.; and Yutani, Nobuo, 3,704,506.

Yuyama, Masahiro: See—

Iwashita, Akira; Tsunokawa, Tamio; and Yuyama, Masahiro, 3,699,081.

Yuza, Hisashi: See—

Isogai, Tokio; Isikawa, Eiichi; Yuza, Hisashi; Tahara, Takasi; Miyashita, Takao; and Ikemoto, Norio, 3,654,543.

Yuzawa, Masaharu. Back-mirror and side-mirror combination device. 3,659,929, 5-2-72, Cl. 350-307.

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Zabel, Marvin L.: See—

Gage, Frank H.; and Zabel, Marvin L., 3,674,211.

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Chamberlin, Earl M.; Harris, Elbert E.; and Zabriske, John L., Jr., 3,658,846.

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Dibelius, Norman Richard; and Zabriske, William Lun, 3,658,017.

Zabroski, Frank; McDonald, Walter; and Seitel, Norbert J. Method of and device for conveying and arranging empty receptacles, such as bottles or jars. 3,658,167, 4-25-72, Cl. 198-33.

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Zacaroli, Edward C., to Hamilton Digital Controls, Inc. Magnetic head assembly with low read to write crosstalk. 3,700,828, 10-24-72, Cl. 179-100.20c.

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Haney, Ralph D.; Zachar, James E.; and Drozd, Charles J., 3,702,988.

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Zachaus, Eberhard: See—

Gottweis, Gert; Herrlich, Michael; Klas, Gunther; Schober, Joachim; Thiede, Peter; and Zachaus, Eberhard, 3,676,978.

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Evans, Richard E.; and Zacher, Harold D., 3,644,199.

Zachmann, Octave B. Spare wheel for automobile. 3,679,267, 7-25-72, Cl. 301-38.00r.

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Sarsten, Jan A.; Zacks, Kenneth I.; and Myers, Michael C., 3,668,882.

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Lidorenko, Nikolai Stepanovich; Landsman, Arkady Pavlovich; Strebkov, Dmitry Semenovich; Zaitseva, Aita Konstantinovna; Zadde, Vitaly Viktorovich; and Kosarev, Viktor Sergeevich, 3,653,971.

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Berry, Holland J.; Hardy, William C.; and Zadow, Dale W., 3,680,635.

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Brunialti, Bruno; and Zaffignani, Giovanni, 3,701,841.

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Moransais, Charles, 3,659,952.

Zagar, Irvin Frank, to Wilfley, A. R., and Sons, Inc. Centrifugal pump with mating case plate volute halves and constant section impeller. 3,656,861, 4-18-72, Cl. 415-109.

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Makarov, Gleb Nikolaevich; Zhitov, Boris Nikolaevich; Zagorets, Anatoly Mikhailovich; Korolev, Jury Germanovich; Syskov, Konstantin Ivanovich; Filonenko, Jury Yakovlevich; Dvorin, Semen Semenovich; Semnov, Alexandr Semenovich; Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich, 3,667,746.

Zagorin, Harold: See—

DeForest, William S.; Heap, Richard T.; Widmont, Joseph C.; and Zagorin, Harold, 3,666,639.

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Schacher, Willi; and Marschner, Heinz, 3,667,580.
Zippel, Christof; and Ill, Manfred, 3,679,335.
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Zahoransky, Heinz, 3,640,582.
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Machida, Takehiko; Yoshida, Yukio; Fujii, Noriyoshi; and Yokoyama, Kenjiro, 3,636,431.
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Ishihara, Kazuo; Segawa, Toyoo; and Zaita, Hiroaki, 3,645,525.
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Scherban, Alexandr Nazarevich; Furman, Neonil Izrailevich; Sotnichenko, Boris Feodosievich; Belogolovin, Nikolai Stefanovich; Chopovsky, Jury Ivanovich; Sutormin, Jury Nikolaevich; Zaitsev, Valentin Ivanovich; Kot, Vladimir Ivanovich; Mikhailjuk, Nikolai arasovich; Denisenko, Sergei Andreevich; Chaschinov, Anatoly Vasilievich; Shaporev, Stepan Vasilievich; and Samoilenko, Svetlana Mikhailovna, 3,678,489.
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Niforov, Vladimir Pavlovich; Zaitsev, Vasily Nikolaevich; Khomyakov, Viktor Stepanovich; Kil, Ilia Genrikhovich; and Tsybukov, Igor Kirillovich, 3,702,815.
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Lidorenko, Nikolai Stepanovich; Landsman, Arkady Pavlovich; Strebkov, Dmitry Semenovich; Zaitseva, Aita Konstantinovna; Zadde, Vitaly Viktorovich; and Kosarev, Viktor Sergeevich, 3,653,971.
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Newstead, Charles; Cullen, John Lesley; and Zajko, Michal, 3,677,374.
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Nelson, Donald R.; Zakaitis, Robert C.; and Parent, Joseph V., 3,648,723.
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Beaver, Bud K.; and Zakarian, A. David, 3,704,552.
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Kaplansky, Arkady Fridmanovich; Korenblit, Izya Yakovlevich; Frenkel, Andrei Filiprovich; and Zakhariev, Alexandr Ivanovich, 3,682,570.
- Zakharov, Sergei Alexandrovich: *See*—
Kusovsky, Boris Isaakovich; Pavlov, Nikolai Ivanovich; Matichenko, Anatoly Petrovich; Zakharov, Sergei Alexandrovich; and Birjukov, Dmitry Anatolevich, 3,704,222.
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Nowak, Edmund; and Korchow, Jerzy, 3,645,295.
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Alvarez, Luis W.; Derenzo, Stephen E.; Muller, Richard A.; Smits, Robert G.; and Zaklad, Haim, 3,659,105.
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Zautaszwili, Irakli, 3,651,909.
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Jordan, Manuel A.; Zalewski, Edmund J.; and Newell, Julian E., Jr., 3,646,374.
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Dunne, Owen F.; Hebert, William E.; Souza, Ronald; and Wargat, Edward, 3,696,770.
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Zeltzer, Harry I., 3,701,590.
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Field, George Francis; Sternbach, Leo Henryk; and Zally, William Joseph, 3,678,038.
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- Zalokar, Zarko: *See*—
Gortnar, Franc; Zalokar, Zarko; Klun, Fedor; and Bulog-Gortnar, Velen, 3,656,570.
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Garrett, Donald E.; and Zaloudek, Theodore V., 3,674,919.
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- Zipin, Richard B.; and Zalusky, James T., 3,647,302.
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Crotty, Homer E.; and Zalzal, Michel T., 3,644,210.
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Chittenden, Rudy M.; Deskevich, Stephen; Plummer, Norman R.; Rohrer, Gene D.; and Zaman, Louis F., III, 3,645,392.
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Giani, Mario; Molteni, Luigi; and Gori, Enzo, 3,646,144.
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Della Bella, Davide; Portelli, Mario; and Renzi, Giorgio, 3,691,229.
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Olds, Richard G.; and Zammitt, Frank X., 3,681,665.
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Milsimer, Frantisek; and Zampach, Jiri, 3,652,352.
- Zamuruev, Alexander Mikhailovich: *See*—
Sitnichenko, Valentin Mikhailovich; and Zamuruev, Alexander Mikhailovich, 3,639,767.
- Zander, Maximilian: *See*—
Buffleb, Herbert; Franck, Heinz Gerhard; Oberkobusch, Rudolf; Turowski, Johannes; Collin, Gerd; and Zander, Maximilian, 3,655,802.
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- Wegener, Otto; Oberkobusch, Rudolf; Collin, Gerd; Zander, Maximilian; and Buffleb, Herbert, 3,654,135.
- Zander, Rolf Albin: *See*—
Jarnbrink, Karl Evert; Claesson, Per Harry Elias; and Zander, Rolf Albin, 3,636,483.
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Brennan, Leon E.; Mower, Frederick J.; Place, Fred A.; Shanks, David A.; Simpson, Neville H.; and Zaner, William L., Sr., 3,634,899.
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Gail, Charles P.; Zanetti, Ugo Serra; and Amisano, Andrew L., 3,660,987.
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Grey, Jerry; and Zanft, Auran B., 3,656,441.
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Jager, Georg; Wenger, Helmut; and Zangl, Karl, 3,693,253.
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Trusheim, Frank M.; and Zaniewski, Walter C., 3,642,477.
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Ohlbaum, Robert A.; Zanis, Charles A.; and Crisci, Joseph R., 3,653,940.
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Basin, Genrikh Maxovich; Gorenstein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Yakov Benediktovich, 3,648,471.
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Volkmar, Willi; and Zanner, Georg, 3,633,303.
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Theer, Anton; and Zanner, Johann, 3,656,842.
- Winkler, Alfred; Theer, Anton; Zanner, Johann; and Hennig, Fridolin, 3,668,989.
- Winkler, Alfred; Zanner, Johann; Fischern, Bernhard V.; and Fuchsle, Klaus, 3,704,941.
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von Fischern, Bernhard; Winkler, Alfred; Fuchsle, Klaus; Zanner, Johann, Jr.; and Ungnadner, Peter, 3,690,751.
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Wieschel, John E.; Zanzig, Jerald G.; Czarniecki, Robert M.; and Murray, Claire W., 3,682,336.
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Claudio, Zapata G., 3,633,781.
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Gwinner, Walter C., 3,705,122.
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Anacker, Wilhelm; and Zappe, Hans H., 3,705,393.
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Karakashian, Zaven Oganezovich; Lazarian, Vsevolod Arutjunovich; Azarov, Boris Vasilievich; Bolotin, Mikhail Mikhailovich; Pershin, Vladimir Yakovlevich; Timoshuk, Albert Isidorovich; Dragonenko, Anatoly Alexandrovich; Zarakovich, Ilia Yakovlevich; and Svidrov, Mikhail Vasilievich, 3,656,632.
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Kedzior, Andrzej; Horoszkow, Jan; Olszowski, Tadeusz; Romaniec, Edward; and Zaremba, Stanislaw, 3,682,448.
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Kobs, Hans-Dietrich; Schmidt, Klaus; Zarfl, Theodor; and Kuhn, Gunter, 3,653,820.
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Fathauer, George H., 3,686,571.
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Rich, Andrew V.; and Zarlengo, Eugene F., 3,653,524.
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Wollmann, Ernest; and Zartl, Josef, 3,662,054.
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Howe, Harald O.; and Zaschke, Wolfgang, 3,654,952.
- Zastrow, Virgil A., to Caterpillar Tractor Company. Turbine housing with two inlet passages. 3,664,761, 5-23-72, Cl. 415-205.
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Reich, Eugene H.; and Zasztowt, Frank J., 3,681,116.
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Foley, Edward F., Jr.; Tsai, Shan-Pu; and Zatorsky, William A., 3,704,156.
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Engelsmann, Dieter; Maas, Dieter; and Zattler, Kurt, 3,657,984.
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Picciano, James K.; and Zauchner, Joseph, 3,702,926.

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Michaels, Raymond John, Jr.; and Zaugg, Harold Elmer, 3,663,549.
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Hook, Richard Wayne; and Zaun, Richard David, 3,695,360.
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Nesson, Israel; Palmer, Robert G.; and Zausner, Sam, 3,657,980.
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Kralicek, Jaroslav; Kubanek, Vladimir; Solcova, Jitka; and Kon-delikova, Jaroslava, 3,674,751.
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Bumbalek, Karel; and Olser, Ladislav, 3,678,522.
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Egnaczak, Raymond K.; Myers, Charles H.; and Zawadzki, Edward A., 3,656,847.
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Wollensak, John C.; and Zaweski, Edward F., 3,683,054.
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Duckhinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosifovich; Anikanov, Nikolai Ivanovich; and Grachev, Leonid Pavlovich, 3,683,586.
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Dichinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosifovich; Anikanov, Nikolai Ivanovich; Grachev, Leonid Pavlovich; and Frumkin, Mikhail Evseevich, 3,702,186.
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Koshkin, Lev Nikolaevich; Zazhigin, Alexei Sergeevich; Tanygin, Vitaly Matveevich; Chagin, Valentin Petrovich; and Khomenko, Vasily Iosifovich, 3,631,965.
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Buck, Ronald H., Jr.; and Zbikowski, Ted, 3,672,435.
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Mayer, Raymond P.; Thompson, Ivan M.; and Zbojniec, Walter P., 3,642,264.
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Bostick, Edgar E.; and Zdaniewski, Joseph J., 3,641,090.
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Krock, Richard H.; Shen, Yuan Shou; and Zdanuk, Edward J., 3,694,198.
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Prochazka, Miloslav; Cesenek, Bedrich; Mach, Vladimir; Kaulich, Karel; Zdenka, Cerveny; and Bradzda, Ladislav, 3,648,450.
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Langmead, Peter Norman Frederick, 3,648,499.
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Cappotto, Samuel D.; Diamond, Herrick R.; and Zeamer, Aaron C., 3,642,109.
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Schneble, Frederick W., Jr.; McCormack, John F.; and Zebisky, Rudolph J., 3,635,758.
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Sherman, Albert H.; and Zech, John D., 3,671,458.
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Merten, Rudolf; and Zecher, Wilfried, 3,705,874.
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Henderson, Robert M.; Zechlin, Richard; and Miller, Lowell E., 3,665,169.
- Zechnull, Richard: *See—*
Gunsner, Peter; Zechnull, Richard; and Christ, Klaus, 3,659,907.
- Schneabel, Eberhard; Fleischer, Helmut; Zechnull, Richard; Domann, Helmut; Maisch, Wolfgang; and Christ, Klaus, 3,696,270.
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- Zechnowitz, Alvin L.: *See—*
Xenakis, James A.; Zechnowitz, Alvin L.; and Strazzulla, Raymond L., 3,683,440.
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- Zednik, Ernest R.: *See—*
Goulet, Roger T.; and Zednik, Ernest R., 3,698,984.
- Zeeb, Rhinold J. (Lathe attachment) apparatus for adjusting the center of a turning machine. 3,653,287, 4-4-72, Cl. 82-33.
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Zschocke, Albrecht; Zeeh, Bernd; and Fischer, Adolf, 3,696,115.
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Koebel, Thomas P., 3,633,317.
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Renken, Howard C.; and Zegers, Theodor W., 3,655,538.
- Zeh, Willi: *See—*
Munding, German; and Zeh, Willi, 3,667,241.
- Zehnder, Hans: *See—*
Wrightman, Karl B.; and Zehnder, Hans, 3,679,365.
- Zehnder, Josef: *See—*
Eggenberger, Ulrich; and Zehnder, Josef, 3,642,405.
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Rossler, Heinrich Georgi F.; Baumann, Heinrich; and Zeidler, Falk, 3,638,701.
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Tolle, Adolf; and Zeidler, Hans, 3,653,359.
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Thomson, Don N.; Connolly, James J.; and Zeiger, Kenneth K., 3,643,257.
- Zeigler, Philip B.: *See—*
Bird, Melvyn R.; Christiansen, Paul J.; and Zeigler, Philip B., 3,645,590.
- Zeigler, Rodney N.: *See—*
Kennedy, Paul G.; Zeigler, Rodney N.; and Provine, Daniel J., 3,705,262.
- Zeile, George D., Jr.; and Couch, Robert O., to Anvil Industries, Inc. Conduit system. 3,642,308, 2-15-72, Cl. 285-47.
- Zeile, Karl: *See—*
Freter, Kurt; Gotz, Manfred; Oliver, James T.; and Zeile, Karl, 3,635,974.
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- Koppe, Herbert; Zeile, Karl; Kummer, Werner; Stahle, Helmut; and Danneberg, Peter, 3,659,019.
- Mentrup, Anton; Schromm, Kurt; Zeile, Karl; and Thoma, Otto, 3,657,244.
- Schroeder, Hans-Detlef; Merz, Herbert; Langbein, Adolf; Freter, Kurt; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Wick, Helmut, 3,689,492.
- Schromm, Kurt; Mentrup, Anton; Zeile, Karl; Renth, Ernst-Otto; Engelhardt, Albrecht; and Traunecker, Werner, 3,673,187.
- Weber, Karl-Heinz; Merz, Herbert; Zeile, Karl; Giesemann, Rolf; and Danneberg, Peter, 3,660,381.
- Weber, Karl-Heinz; Zeile, Karl; Giesemann, Rolf; and Danneberg, Peter, 3,683,348.
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- Weber, Karl-Heinz; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Hauptmann, Heinz, 3,707,539.
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Zeisler, Edward G.; and Zeisler, Glenn H., 3,658,263.
- Zeisloft, Harry C.; and Van Ostrom, David L., to General Motors Corporation. Wheel slip limiting apparatus with mechanical control. 3,684,047, 8-15-72, Cl. 180-77.00r.
- Zeiss Ikon Aktiengesellschaft: *See—*
Thiele, Heinz; and Becker, Dietrich, 3,661,448.
- Thiele, Heinz; Franke, Konrad; and Becker, Dietrich, 3,667,836.
- Thiele, Heinz; Becker, Dietrich; Hochstein, Roland; Rockstroh, Horst; and Lieckfeldt, Hans, 3,701,309.
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Froehlich, Walter; and Lang, Walter, 3,706,851.
- Zeiss-Stiftung, Carl; d/b/a Carl Zeiss: *See—*
Hoffmeister, Dietrich; and Schleich, Fritz, 3,657,085.
- Weyrauch, Adolf, 3,674,372.
- Zeiss-Stiftung, Carl; d/b/a Zeiss, Carl: *See—*
Holtz, Eberhard, 3,632,215.
- Holtz, Eberhard, 3,649,122.
- Rantsch, Kurt, 3,694,089.
- Schmidt, Wilhelm; and Daniels, Erwin J., 3,645,632.
- Staedle, Hans, 3,706,093.
- Zeitler, Gerhard; and Trieschmann, Hans-Georg, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Chlorinating powdered vinyl chloride polymers. 3,663,392, 5-16-72, Cl. 204-159.18.
- Zeitler, Roland: *See—*
Rehm, Karl; and Zeitler, Roland, 3,632,107.
- Zeitlin, Alexander: *See—*
Moos, Alois J.; and Zeitlin, Alexander, 3,635,074.
- Zeitlin, Edward J.: *See—*
Zeitlin, Edward J.; and Leighton, Lee, 3,707,618.
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- Zeitter, Charles R., to Packaging Corporation of America. Folding carton. 3,690,543, 9-12-72, Cl. 229-39.000.
- Zeitzschel, Gunter: *See—*
Ullrich, Walter; Lohse, Karl-Heinz; Leuteritz, Jochen; Zeitzschel, Gunter; and Fasol, Robert, 3,668,069.
- Zeldin, Vladimir Pinsokhovich: *See—*
Kasatkin, Jury Ivanovich; Filimonov, Alexandr Vasilievich; Erlykov, Nikolai Sergeevich; Chikirda, Sergei Ivanovich; Strashinsky, Vadim Konstantinovich; and Zeldin, Vladimir Pinsokhovich, 3,681,833.
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Nordstrom, John D.; and Zeilek, Carolyn B., 3,650,811.
- Nordstrom, John D.; and Zeilek, Carolyn B., 3,650,812.
- Nordstrom, John D.; and Zeilek, Carolyn B., 3,650,813.
- Zelenina, Valentina Vasilievna: *See—*
Pluzhnikov, Viktor Mikhailovich; Kalantarov, Karl Davidovich; Gugin, Jury Yakovlevich; Semenov, Valentin Sergeevich; Zelenina, Valentina Vasilievna; and Filatov, Albert Ivanovich, 3,690,309.
- Zelenko, Harry. Disposable aquarium filter. 3,643,801, 2-22-72, Cl. 210-169.
- Zelenskaya, Olga Ivanovna: *See—*
Gerchenova, Nina Andreevna; Gurvich, Lev Moiseevich; Zelenskaya, Olga Ivanovna; Koretsky, Alexandr Filippovich; Machulsky, Petr Alexeevich; Nesterova, Maria Petrovna; Selifanova, Evdokia Prokofievna; Taubman, Arkady Borisovich; and Furaeva, Ekaterina, 3,688,099.
- Zelensky, Vladimir Alexandrovich, to Institut Elektrodinamiki Akademii Nauk. Magnetic analog memory device. 3,681,768, 8-1-72, Cl. 340-174.0an.
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Skulsky, Jury Valentinovich; Boretsky, Vasily Grigorievich; Sakharov, Vasily Alexandrovich; Kushnir, Vladimir Antonovich; Semak, Grigory Grigorievich; Tishura, Vladimir Ivanovich; Tjupin, Petr Stepanovich; Diyak, Ivan Vasilievich; Galian, Boris Afanasievich; Schukin, Pavel Ivanovich; Danilov, Ivan Petrovich; Zelensky, Vladimir Filippovich; Cherevaty, Viktor Stepanovich; Ditchuk, Vladimir Markelovich; Mansurov, Stanislav Adgamovich; and Sokirko, Vasily Andreevich, 3,657,962.
- Zeleny, Peter Charles: *See—*
Zeleny, Victor Vaclav; and Zeleny, Peter Charles, 3,655,175.
- Zeleny, Victor Vaclav; and Zeleny, Peter Charles, to Silver Recovery Equipment Pty., Limited. Package unit for removing metal from a solution of the metal. 3,655,175, 4-11-72, Cl. 266-22.
- Zelenz, Martin L., to Sylvania Electric Products, Inc. Method for fabricating multilayer electrical components. 3,670,379, 6-20-72, Cl. 29-25.920.
- Zelenz, Martin Leroy: *See—*

- Buzard, Joseph Burton; Coleman, Kenneth W.; and Zelenz, Martin Leroy, 3,648,363.
- Zelik, Alexandr Ivanovich: *See—*
- Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov, Nikolai Nikolaevich; Purmalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev, Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and Rits, Leonid Borisovich, 3,683,683.
- Zelina, William B., to General Systems, Inc. Load filter network. 3,652,958, 3-28-72, Cl. 333-79.
- Zelinka, Johann: *See—*
- Smolka, Thomas G.; and Zelinka, Johann, 3,666,280.
- Smolka, Thomas G.; and Zelinka, Johann, 3,689,097.
- Zelinka, Josef: *See—*
- Stepanek, Karel; and Zelinka, Josef, 3,656,677.
- Zelinski, Raymond J. Fixture for winding fishing line onto a fishing pole reel. 3,685,761, 8-22-72, Cl. 242-84.10r.
- Zelinski, Robert P.: *See—*
- Short, James N.; Zelinski, Robert P.; Gaeth, Rudolf H.; and Zuech, Ernest A., 3,637,627.
- Zelinski, Robert P.; and Sonnenfeld, Richard J., to Phillips Petroleum Company. Catalytic composition for the preparation of high vinyl polybutadiene. 3,663,480, 5-16-72, Cl. 252-431.
- Zeliznak, Richard: *See—*
- Lewis, Gerald Perley; Smyth, Robert William; Booker, Philip P.; and Zeliznak, Richard, 3,684,586.
- Zell, Dale Richard: *See—*
- Foust, Tilman Harrison, Jr.; and Zell, Dale Richard, 3,663,922.
- Henschen, Homer Ernst; Huffnagle, Clifton Wesley; and Zell, Dale Richard, 3,663,930.
- Henschen, Homer Ernst; and Zell, Dale Richard, 3,703,604.
- Zell, Dale Richard, to AMP Incorporated. Connector keying system. 3,634,816, 1-11-72, Cl. 339-186.
- Zellar, Wade V.: *See—*
- Smucker, Clayton A.; Rigby, William H., Jr.; and Zellar, Wade V., 3,684,467.
- Zellbeck, Gustav: *See—*
- Reichel, Eckehard; and Zellbeck, Gustav, 3,691,910.
- Zeller, Alfred. Apparatus for gripping and pulling an elongated flexible element. 3,702,689, 11-14-72, Cl. 254-107.000.
- Zeller, Gerard A.: *See—*
- Berkeley, Arnold D.; Bold, Eugene W.; Jefferson, Donald E.; and Zeller, Gerard A., 3,701,972.
- Zeller, Helen D. Check book holder having master check. 3,671,059, 6-20-72, Cl. 283-7.000.
- Zeller, James E.: *See—*
- Wood, Gerald L.; Kolster, Harvey L.; and Zeller, James E., 3,667,826.
- Zeller, Paul: *See—*
- Hegedus, Balthasar; and Zeller, Paul, 3,637,804.
- Hegedus, Balthasar; and Zeller, Paul, 3,641,097.
- Zellers, James T., Jr., to Libbey-Owens-Ford Company. Draw pot skimmer. 3,695,861, 10-3-72, Cl. 65-206.000.
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- Zellmer, Lynn R., to Udylyte Corporation. The Mounting bracket for semiconductor rectifiers to heat sinks. 3,668,477, 6-6-72, Cl. 317-100.000.
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- Zellmer, Richard C.: *See—*
- Miller, Lee A.; and Zellmer, Richard C., 3,675,353.
- Zellstofffabrik Waldhof AG: *See—*
- Schmidt, Robert Richard, 3,697,504.
- Strole, Ulrich; Klein, Rudolf; and Weidinger, Walter, 3,652,358.
- Zellweger Ltd.: *See—*
- Abt, Jurg, 3,681,570.
- Ern, Klaus-Jürgen, 3,641,818.
- Genzel, Hans-Ulrich; Werner; Hafeli, Hans-Rudolf; and Steiner, Hans Robert, 3,671,718.
- Kurz, Gunter; Laube, Karlheinz Otto; and Martinelli, Alfred Adalbert, 3,694,162.
- Meierhofer, Hugo Albert, 3,681,825.
- Strohschneider, Walter, 3,681,571.
- Zelman, M. James: *See—*
- Bodkins, Arthur I., 3,695,743.
- Zelnick, Seymour; and Wildmoser, Martin Michael, to Weldotron Corporation. Method and apparatus for a pallet load. 3,640,048, 2-8-72, Cl. 53-30.
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- Zeluff, Wendell C.: *See—*
- Schmiege, Lester C.; and Zeluff, Wendell C., 3,670,138.
- Zeman, Jack R. Artificial fish lure. 3,646,699, 3-7-72, Cl. 43-35.
- Zeman, John R., to United States of America, National Aeronautics and Space Administration. Lamp modulator. 3,659,148, 4-25-72, Cl. 315-135.
- Zeman, Raymond F.: *See—*
- Bauernfeind, Carl J.; and Zeman, Raymond F., 3,656,060.
- Zeman, Willard V. Window sash paintbrush. 3,636,581, 1-25-72, Cl. 15-166.
- Zemba, John W.: *See—*
- Dunbar, Joseph E.; and Zemba, John W., 3,674,795.
- Zembarry, William L., to United States Steel Corporation. Magnetic particle inspection apparatus wherein the accumulated particles close the indicator circuit. 3,668,517, 6-6-72, Cl. 324-38.000.
- Zembarry, William L., to United States Steel Corporation. Coupling device. 3,672,708, 6-27-72, Cl. 285-315.000.
- Zemlin, John C., to USM Corporation. Stiffener and process for stiffening flexible sheet material. 3,647,616, 3-7-72, Cl. 161-190.
- Zemskov, Alexei Lavrentievich: *See—*
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- Sharma, Jagan N., 3,652,300.
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- Adler, Robert, 3,678,401.
- Adler, Robert, 3,696,313.
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- Bella, David; and Kessler, Seymour, 3,652,097.
- Black, Joseph M., 3,653,900.
- Capek, Raymond G.; and Takahashi, Frank T., 3,683,469.
- Corcoran, John W., 3,657,473.
- De Vries, Adrian J., 3,659,231.
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- Dias, Fleming, 3,654,574.
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- Dickinson, George R.; Moritz, Scott N.; and Puls, Werner H., 3,636,425.
- Dietch, Leonard, 3,666,579.
- Ditthardt, Alfred R.; and Schmidt, Arthur W., 3,636,413.
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- Everett, Peter G., 3,686,579.
- Farbanish, Walter, 3,641,576.
- Fiore, Joseph P., 3,676,914.
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- Foster, Leigh Curtis, 3,676,592.
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- Green, Mino, 3,676,788.
- Hendrickson, Melvin C., 3,673,487.
- Hepner, Charles F.; and Tzakis, George J., 3,701,843.
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- Kaplan, Sam H., 3,666,462.
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- Kessler, Lawrence W.; and Sawyer, Samuel P., 3,707,323.
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- Knowles, Terence J.; and Eaton, Daniel A., 3,669,860.
- Korpel, Adrianus, 3,636,248.
- Korpel, Adrianus, 3,651,262.
- Korpel, Adrianus, 3,670,098.
- Korpel, Adrianus, 3,706,965.
- Kun, Zoltan K.; and Robinson, Robert J., 3,670,220.
- Kun, Zoltan K., 3,705,059.
- Laub, Leonard J., 3,706,843.
- Lerner, Martin L., 3,669,771.
- Lerner, Martin L., 3,702,277.
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- Liberman, Israel A., 3,653,817.
- Ma, John Y., 3,644,853.
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- Markin, Joseph; and Sobel, Alan, 3,700,802.
- Maulsby, William W., 3,649,870.
- Merrell, Richard G.; and Hendrickson, Melvin C., 3,691,297.
- Minzenberger, Thomas C., 3,679,499.
- Pecorari, John G.; and Tamkin, Michael S., 3,654,548.
- Poppy, Dwight J., 3,637,923.
- Prazak, Charles J., III, 3,653,939.
- Renneck, John L., 3,662,097.
- Rennick, John L., 3,636,245.
- Reynolds, Wayne H., 3,702,958.
- Robinder, Ronald C.; Rowe, William A.; and Schwartz, James W., 3,672,893.
- Schorum, Stanley W.; and Song, Wonjin, 3,690,311.
- Sobel, Alan, 3,647,958.
- Sobel, Alan; and Markin, Joseph, 3,670,323.
- Sutherland, John B., 3,639,683.
- Swanson, Carl R., 3,643,182.
- Weibel, Gerhard E., 3,699,375.
- Whitman, Robert L., 3,633,407.
- Wolaki, Adolph J., 3,660,668.
- Zlotnick, Fredrick, 3,651,411.
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- Andrascheck, Hans-Joachim; and Zentner, Erich, 3,639,509.
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- Berger, Hans, 3,680,020.
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- Kurihara, Shigeru; Yamazaki, Tamotsu; Yamamoto, Hideaki; and Yokozato, Junichi, 3,635,416.
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- Turner, Charles L.; and Zerfahs, Arthur S., 3,655,282.
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- Zerfahs, Arthur S.: *See—*
- Mihojevich, Steven; Zerfahs, Arthur S.; Ostensen, Ralph G.; Berggren, Albin F., Jr.; and Glaser, Ronald A., 3,698,706.
- Zerfoss, Clinton C.: *See—*
- Pray, Lester W.; and Zerfoss, Clinton C., 3,698,536.
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- Hutter, Harold G.; and Zerlin, William Max Erich, 3,646,502.
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- Hochheiser, Jerome S.; Zermeno, Louis; and Sitler, Galen, 3,663,895.
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- Hodes, Harvey A.; Sobieski, James F.; and Zerner, Michael C., 3,650,909.
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- Usov, Vladimir Viktorovich; Zernograd Rostovskoi Oblasti; and Shinevsky, Lev Konstantinovich, 3,685,362.
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- Gordon, James F., 3,673,604.
- Gordon, James Franklin, 3,653,068.

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Shell, Francis J.; and Zetmeir, Norris D., 3,661,884.
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D'Amato, Paolo; and Zetti, Gastone, 3,683,282.
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Doerfel, Helmut; and Zettler, Hans Dieter, 3,657,195.
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Santiago, Andres; and Santiago, Enrique, 3,703,082.
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Prieur, Hubertus; Vom Dorp, Walter; and Zeunert, Fritz, 3,688,643.
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Bashkutskaia, Irina Andreevna; Belova, Alla Borisovna; Borschev, Semen Timofeevich; Vlasov, Valentin Ivanovich; Govor, Vasily Markovich; Grinvald, Boris Ilevich; Zhabin, Yuri Alexeevich; Koneva, Yanina Andreevna; Popova, Valentina Nikolaevna; Rzhikhin, Vladimir Petrovich; Rubnikov, Vitaly Bronestavovich; Rozenshtein, Grigory Vladimirovich; Sergeev, Alexandr Georgievich; Sterlin, Basya Yakovlevna; Trosko, Uyslav Iosifovich; Sharipova, Raviya Davlatovna; Gavrilenko, Ivan Vasilievich; Kiporenko, Semen Feorovich; and Neschadim, Anatoly Grigorievich, 3,654,325.
- Zhed, Yuri Mikhailovich: See—
Itin, Artur Markovich; Zhed, Yuri Mikhailovich; and Nazarov, Vladimir Lvovich, 3,650,583.
- Zheigur, Bruno Domenikovich: See—
Ioffe, Benyamin Alexandrovich; Kalnin, Robert Karlovich; Dorofeev, Vyacheslav Semenovich; Trushelis, Ivan Augustovich; Zheigur, Bruno Domenikovich; Rizhsky Raion, Salaspils; Ivanov, Anatoly Andreevich; and Preis, Vladimir Viktorovich, 3,661,298.
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Chaikin, Boris Semenovich; Kozlov, Lev Ivanovich; Oblasti, Khimki Moskovskoi; Malchenko, Thomas Vasilievich; Mokrushin, Konstantin Dmitrievich; Yarovsky, Lev Volfovich; Maryanchik, Grigory Efimovich; Zhelnov, Boris Stepanovich; Tarasov, Vasily Mikhailovich; Trubetskoy, Kirill Mikhailovich; Borshevsky, Igor Konstantinovich; and Chermensky, Dmitry Pavlovich, 3,697,058.
- Zhigulev, Petr Georgievich: See—
Andoniev Sergei Mikhailovich; Zhigulev, Petr Georgievich; Kudinov, Gennady Alexandrovich; Filipiev, Oleg Vladimirovich; and Energoursorov Predpriyati Chernoi Metallurgii, 3,704,747.
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Makarov, Gleb Nikolaevich; Zhitov, Boris Nikolaevich; Zagorets, Anatoly Mikhailovich; Korolev, Yuri Germanovich; Syskov, Konstantin Ivanovich; Filonenko, Yuri Yakovlevich; Dvorin, Semen Semenovich; Lerner, Ruvim Zinovievich; Mustafin, Fuat Akhtemovich; Semnov, Alexandr Semenovich; Erkin, Leonid Iosifovich; Gryaznov, Nikolai Sergeevich; Lazovsky, Izrail Mikhailovich; and Nefedov, Petr Yakovlevich, 3,667,746.
- Zhlabis, Sauljus Bonoventuro: See—
Bauzhis, Albertas Vatslovovich; Damiennaitis, Petras-Kestutis Petrovich; Zhlabis, Sauljus Bonoventuro; and Shilenas, Petras-Alvidas Petro, 3,689,860.
- Zhlaby, Romualdas Alberto: See—
Nashljunas, Rimantas Alfonso; Zhlaby, Romualdas Alberto; Bu-cijunas, Hazimiras Gediminas; and Shvagzhys, Povilas Prant-sishkaus, 3,639,903.
- Zhokhova, Olga Samuilovna: See—
Popov, Boris Vasilievich; Slonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Zhukov, Gennady Konstantinovich; and Zhokhova, Olga Samuilovna, 3,672,197.
- Zhuk, Regina Abramovna: See—
Giller, Solomon Aronovich; Zhuk, Regina Abramovna; Lidak, Marger Jurievich; and Zidermane, Aina Avgustovna, 3,635,946.
- Zhukov, Gennady Konstantinovich: See—
Popov, Boris Vasilievich; Slonim, Alexandr Zosimovich; Sonin, Anatoly Leonidovich; Zhukov, Gennady Konstantinovich; and Zhokhova, Olga Samuilovna, 3,672,197.
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Dunaevsky, Iuliy Nekhemievich; Tartakovsky, Boris Nusimovich; Zhukov, Nikolai Arsentievich; and Potapenko, Viktor Viktorovich, 3,689,090.
- Zhukov, Vladimir Fedorovich: See—
Brukovsky, Igor Pavlovich; Yakovlev, Pavel Borisovich; Gutterman, Kirill Davidovich; Perov, Alexandr Vasilievich; Zhukov, Vladimir Fedorovich; Nekrasova, Larisa Petrovna; and Ivanovsky, Yuri Dmitrievich, 3,689,798.
- Zhukova, Izida Grigorievna: See—
Barkov, Nikolai Konstantinovich; Kucheroval, Natalya Fedorovna; Kochetkov, Nikolai Konstantinovich; Zhukova, Izida Grigorievna; and Sharkova, Nina Mikhailovna, 3,657,254.
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- Zhuravlenko, Viktor Yakovlevich: See—
Dyskin, Ernest Matveevich; Raevsky, Georgy Vladimirovich; Biletsky, Semen Mikhailovich; Burmenko, Eduard Jurievich; Grosman, Erikh Ruvimovich; Satanovsky, Abram Lazarevich; Kremnev, Oleg Alexandrovich; Zhuravlenko, Viktor Yakovlevich; and Protysynin, Boris Nikolaevich, 3,687,434.
- Zhurenko, Anna Timofeevna: See—
Artamonova, Nadezhda Ivanovna; Bushin, Leonid Mikhailovich; Besedin, Leonid Nikolaevich; Zhurenko, Anna Timofeevna; Urvantsev, Leonid Mikhailovich; Scherbakov, Yuri Dmitrievich; Yasyukevich, Boris Ivanovich; Demin, Anatoly Anisimovich; and Peshkov, Evgeny Iktorovich, 3,654,756.
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Okorokov, Ivan Fedorovich; Bogdanov, Gorgy Porfirievich; Sorokin, Konstantin Alexandrovich; Onischenko, Anatoly Fedorovich; Ziborov, Pavel Efimovich; and Perstnev, Samuil Nisonovich, 3,705,559.
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Neese, Philip C.; Watson, Richard D.; and Zickel, Thomas A., 3,690,737.
- Zickler, Helmut: See—
Keller, Helmut; Rottmann, Franz; Zickler, Helmut; and Klauke, Dieter, 3,652,190.
- Zidermane, Aina Avgustovna: See—
Giller, Solomon Aronovich; Zhuk, Regina Abramovna; Lidak, Marger Jurievich; and Zidermane, Aina Avgustovna, 3,635,946.
- Ziebell, Donn G.: See—
Clark, Raymond C.; and Ziebell, Donn G., 3,679,271.
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Nyststrand, Ernst Daniel; Spencer, Harvey J.; and Ziegelhoffer, Paul, 3,640,050.
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Birkner, Helmut; Ziegenbein, Willi; and Schick, Anton, 3,635,850.
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Beesch, Otto; Wolf, Karl; and Ziegler, Bodo, 3,689,195.
- Ziegler, Carl: See—
Sprague, James M.; and Ziegler, Carl, 3,706,790.

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Komaroff, Iwan; Ziegler, Ewald; and Hans, Waldemar, 3,661,183.
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Dennewitz, Rolf Dieter; Exner, Emil A.; and Zierau, Henning, 3,662,213.
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Gehrken, Hubert; Helms, Gerd; Keuncke, Gerhard; and Krimphove, Herbert, 3,655,521.
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Westendorp, Frans Frederik; and Zijlstra, Hinne, 3,647,574.
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Walther, Ludwig; Esser, Matthias; and Zilken, Helmut, 3,695,578.
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Belsky, Igal; Gertner, David; and Zilkha, Albert, 3,651,115.
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 Furman, Rudolph S.; and Zimmer, Jerrold F., 3,706,491.
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 Zimmerer, Arthur L.; Zimmerer, Bernard J.; and Zimmerer, Paul B., 3,659,627.
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 Frederickson, Robert Eugene; Zimmerer, John Louis; and Bailey, Jay Richard, 3,652,074.
 Frederickson, Robert Eugene; Zimmerer, John Louis; and Bailey, Jay Richard, 3,698,455.
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 Fischer, Robert E.; Raiff, Lawrence C.; Seybold, James M.; and Zimmerle, Donald F., 3,674,924.
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 Pwell, Edgar R., 3,656,715.
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 Zimmerman, Frank Eberhard, to Knoll AG, Chemische Fabriken. Oral synergized anti-inflammatory compositions. 3,646,198, 2-29-72, Cl. 424-180.
 Zimmerman, Gilbert A.: See—
 Batchelder, George W.; and Zimmerman, Gilbert A., 3,653,993.
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 Zimmerman, Harry M., to Aerojet-General Corporation. Three-axis inspection probe. 3,660,906, 5-9-72, Cl. 33-174.
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 Rautenbach, Robert; Lutzeyer, Wolfgang; Werner, Udo; Lymberopoulos, Stavros; and Zimmerman, Hubert, 3,662,755.
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 Silver, Arnold H.; and Zimmerman, James E., 3,696,287.
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 Shaw, Robert H.; and Zimmerman, Jerrold, 3,658,631.
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 Zimmerman, Lawrence C., to Leopold, F. B., Company, Inc. Sewage comminutor installation. 3,638,869, 2-1-72, Cl. 241-46.
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 Wessling, Ritchie A.; and Zimmerman, Ray G., 3,706,677.
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 Zimmerman, Stanley D.: See—
 Hawkins, John J.; Storrs, Charles D.; and Zimmerman, Stanley D., 3,661,882.
 Zimmerman, Theodore, to United States of America, Army. Combustible cartridge case. 3,706,279, 12-19-72, Cl. 102-43.00r.
 Zimmerman, Thomas C.: See—
 Young, John T.; Michels, Charles E.; Zimmerman, Thomas C.; and Hagemann, Gilbert M., 3,693,737.
 Zimmerman, Walter H.: See—
 Winston, John M.; and Zimmerman, Walter H., 3,665,389.
 Zimmermann & Jansen GmbH, Firma: See—
 Walther, Ludwig; Esser, Matthias; and Zilken, Helmut, 3,695,578.
 Zimmermann, Carl J.: See—
 Weber, Roland E.; and Zimmermann, Carl J., 3,698,558.
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 Zimmermann, Gert, 3,704,566.
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 Treiber, Hans-Joerg; and Zimmermann, Frank, 3,657,258.
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 Hartmann, Rudolf; and Zimmermann, Horst, 3,696,614.
 Zimmermann, Hubert: See—
 Krusche, Kurt; and Zimmermann, Hubert, 3,680,169.
 Krusche, Kurt; and Zimmermann, Hubert, 3,683,443.
 Zimmermann, Jean Pierre: See—
 Gerecke, Max; and Zimmermann, Jean Pierre, 3,700,659.
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 Henning, Walter, 3,647,156.
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 Zimmermann, Richard: See—
 Uthemann, Wolfgang; and Zimmermann, Richard, 3,703,182.
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 Grabner, Roy W.; Zimmerman, Morris; Subjack, William J.; and Veber, Daniel F., 3,664,926.
 Zimmie, W. E., Inc.: See—
 Puckorius, Paul R.; and Zimmie, William E., 3,658,710.
 Zimmie, William E.: See—
 Puckorius, Paul R.; and Zimmie, William E., 3,658,710.
 Zimnoch, Joseph J.: See—
 Szumila, Anthony D.; Zimnoch, Joseph J.; Bechtel, John D.; and Steinberg, Harvey M., 3,671,865.
 Zinamon, Martin: See—
 Levin, Jordan J.; Semlitz, Edward F.; and Zinamon, Martin, 3,658,019.
 Zinck-Petersen, Jorgen; and Lundqvist, Bertil, to Allmanna Svenska Elektriska Aktiebolaget. Arrangement for supplying energy to devices as high potential, for example for operating purposes. 3,670,175, 6-13-72, Cl. 307-64.000.
 Zindler, Jerrold: See—
 Rosse, Thomas A.; Blackmer, David E.; Zindler, Jerrold; and Kelley, Thomas F., 3,703,336.
 Zingg, Roy J.: See—
 Pohm, Arthur V.; and Zingg, Roy J., 3,703,713.
 Zingg, Roy J., to Iowa State University. Digital system for controlling signal transfers between registers and data buses. 3,644,901, 2-22-72, Cl. 340-172.
 Zink, John, Company: See—
 Cullinane, Claude, Jr., 3,662,669.
 Reed, Robert D.; Goodnight, Hershel; and Zink, John Smith, 3,632,287.
 Reed, Robert D., 3,661,534.
 Reed, Robert D.; and Zink, John Smith, 3,684,189.
 Reed, Robert D., 3,697,231.
 Zink, John Smith; and Reed, Robert D., 3,639,095.
 Zink, John Smith; Goodnight, Hershel; and Reed, Robert D., 3,659,962.
 Zink, John Smith: See—
 Reed, Robert D.; Goodnight, Hershel; and Zink, John Smith, 3,632,287.
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 Zink, John Smith; Goodnight, Hershel; and Reed, Robert D., to Zink, John, Company. Aspirator. 3,659,962, 5-2-72, Cl. 417-179.000.
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 Zink, Paul R.: See—
 Kiewicz, Frank M.; and Zink, Paul R., 3,670,420.
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 Zinkin, Harold, to Whittaker Corporation. Wrist exerciser device. 3,653,659, 4-4-72, Cl. 272-68.
 Zinkl, Andrew: See—
 Linton, Denton C.; Zinkl, Andrew; and Ballam, Jack, 3,679,399.
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 Zinniel, Francis R.: See—
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 Zinniel, Francis R.; Blome, Eugene R.; and Kimball, Philip D., said Blome and Kimball assor. to said Zinniel, Francis R. Resin extraction process. 3,637,639, 1-25-72, Cl. 260-107.
 Zinsco Electrical Products: See—
 Beltz, Harold E.; and Palmer, John G., 3,671,908.
 Hoss, Robert J., 3,700,967.
 Sturdivan, Rex E., 3,691,288.
 Zinser-Textilmaschinen Gesellschaft mit beschränkter Haftung: See—
 Bucher, Erich; and Maldener, Alfred, 3,659,796.
 Hohloch, Kurt, 3,681,908.
 Krauss, Paul; Roethke, Ernst; and Tenholtern, Gerhard, 3,631,663.
 Krauss, Paul; and Igel, Wolfgang, 3,703,023.
 Mahlmann, Werner, 3,635,020.
 Regelmann, Rolf F.; and Riek, Wolfgang, 3,651,631.
 Zintel, James F., to Jenn-Air Corporation. Method of placing a mobile home on a foundation. 3,664,082, 5-23-72, Cl. 52-742.000.
 Ziober, Johnnie J.: See—
 Mott, George E.; and Ziober, Johnnie J., 3,685,300.
 Mott, George F.; and Ziober, Johnnie J., 3,670,507.
 Ziobrowski, Edwin P.: See—
 Iosue, Michael F.; Robinson, Ronald F.; Anderson, Paul L.; and Ziobrowski, Edwin P., 3,663,866.
 Ziolkowski, Francis J. Shurring apparatus. 3,688,343, 9-5-72, Cl. 17-42.000.
 Ziolo, Ronald F.: See—
 Dori, Zvi; and Ziolo, Ronald F., 3,666,675.
 Zion, Gilbert C.: See—
 Vanderhagen, Lawrence P.; Ritter, Gerald R.; and Zion, Gilbert C., 3,632,241.
 Zipf, Frederick W., III, to Blessings, Inc. Disposable draw sheet. 3,646,624, 3-7-72, Cl. 5-334.
 Ziph, Andrew H. Glare shield for automobiles. 3,649,069, 3-14-72, Cl. 296-97.
 Zipin, Richard B.; and Zalusk, James T., to Bendix Corporation. The apparatus for and method of obtaining precision dimensional measurements. 3,647,302, 3-7-72, Cl. 356-106.
 Zipin, Richard B., to Bendix Corporation, The. Displacement measuring apparatus. 3,658,429, 4-25-72, Cl. 356-169.

Zipp, Otmar: *See*—
 Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfried, 3,661,903.

Zippe, Gernot, to Gesellschaft für Kernverfahrenstechnik mbH. Method for the fabrication of stiffening corrugations in thin-walled, hard sheets, especially of circumferential creases in tubes. 3,667,265, 6-6-72, Cl. 72-84.

Zippe, Gunter: *See*—
 Baumgartner, Siegfried; Fries, Bernd; Lidl, Rolf; and Zippe, Gunter, 3,674,408.

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Zippel, Christoff, and Ill, Manfred, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Gear pump. 3,679,335, 7-25-72, Cl. 418-170.000.

Zippel, Georg Alfred, to Zippel, Herbert, K.G. Device for locking perforated stationery together on a support. 3,632,218, 1-4-72, Cl. 402-33.

Zippel, Herbert, K.G.: *See*—
 Zippel, Georg Alfred, 3,632,218.

Zippel, Richard, & Co. KG: *See*—
 Zippel, Bernd; and Schlieckmann, Alfred, 3,669,595.
 Zippel, Bernd; and Schlieckmann, Alfred, 3,677,681.
 Zippel, Bernd; and Schlieckmann, Alfred, 3,690,441.

Zipper, Donald H.: *See*—
 Westfall, James E.; and Zipper, Donald H., 3,687,332.

Zipper, Donald H., to Continental Can Company. Method of forming a molded ring gasket. 3,689,625, 9-5-72, Cl. 264-268.000.

Zipper, Walter J.: *See*—
 Johnson, Robert J.; and Zipper, Walter J., 3,655,952.

Zipper, Walter J. Glass washing device. 3,688,330, 9-5-72, Cl. 15-76.000.

Zippo Manufacturing Company: *See*—
 Smyth, James A.; and Whitaker, William T., 3,695,074.

Zippus, David L.: *See*—
 David, Donald J.; and Zippus, David L., 3,661,533.

Zirker, Guenter; Sanne, Walter; Pilch, Kurt; and Schulze, Gerhard. Purifying hydrogen. 3,695,841, 10-3-72, Cl. 423-651.000.

Zirkle, Charles L.: *See*—
 Craig, Paul N.; and Zirkle, Charles L., 3,694,514.
 Kaiser, Carl; and Zirkle, Charles L., 3,637,827.
 Kaiser, Carl; and Zirkle, Charles L., 3,655,667.
 Kaiser, Carl; and Zirkle, Charles L., 3,657,252.
 Kaiser, Carl; and Zirkle, Charles L., 3,673,176.
 Kaiser, Carl; and Zirkle, Charles L., 3,674,792.
 Kaiser, Carl; and Zirkle, Charles L., 3,676,435.
 Kaiser, Carl; and Zirkle, Charles L., 3,681,461.
 Kaiser, Carl; and Zirkle, Charles L., 3,684,812.
 Kaiser, Carl; and Zirkle, Charles L., 3,686,335.
 Ross, Stephen T.; and Zirkle, Charles L., 3,679,693.

Zirna, Ion: *See*—
 Bucur, Victor; Filotti, Traian Mircea; Georgescu, Eugenia; Mazare, Theodora; Ghejan, Ion; Zirna, Ion; Popescu, Elena Lygia; and Ioszt, Toma, 3,657,153.

Georgescu, Eugenia; Ghejan, Ion; Bugur, Victor; Zirna, Ion; Mazare, Theodora; Popescu, Elena-Lygia; Olteanu, Bujor; Marculescu, Nicolae; Filotti, Traian-Mircea; Barbul, Marius-Aurel; and Calin, Ion, 3,673,109.

Georgescu, Eugenia; Ghejan, Ion; Bucur, Victor; Mazare, Theodora; Zirna, Ion; Popescu, Elena Lygia; Budu, Adrian; Olteanu, Bujor; Filotti, Traian Mircea; and Barbul, Marius Aurel, 3,707,509.

Zirngibl, Hans: *See*—
 Mansmann, Manfred; Zirngibl, Hans; and Immel, Otto, 3,632,575.
 Mansmann, Manfred; Immel, Otto; and Zirngibl, Hans, 3,652,553.
 Weise, Johannes; Zirngibl, Hans; and Heine, Heinz, 3,663,166.

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 Mueller, Curt; and Zirngibl, Ulrich, 3,632,589.

Zirngiebl, Eberhard: *See*—
 Minz, Franz-Rudolf; and Zirngiebl, Eberhard, 3,644,089.

Zirnite, Richard N., to Johnson & Johnson. Adhesive tape. 3,677,788, 7-18-72, Cl. 117-11.000.

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Zirps, Wilhelm, to Bosch, Robert, G.m.b.H. Hydraulic power steering apparatus. 3,657,888, 4-25-72, Cl. 60-52.

Zisa, William J.: *See*—
 Redecker, Henry W.; and Zisa, William J., 3,648,166.

Zisblatt, Jack K., 15% to Collard, Allison C. Disposable covering. 3,654,059, 4-4-72, Cl. 161-109.

Zito Company, Inc.: *See*—
 Smith, Herbert B., 3,682,703.
 Zito, Ralph, Jr., 3,700,514.

Zito Company, Inc.: *See*—
 Zito, Ralph, Jr., 3,640,770.
 Zito, Ralph, Jr., 3,640,771.
 Zito, Ralph, Jr., 3,642,538.

Zito, Ralph, Jr., to Zito Company, Inc., The, mesne. Rechargeable metal halide battery. 3,640,770, 2-8-72, Cl. 136-6.

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Zito, Santo, to DOB Division of Fairmont Foods Co. Pizza topping apparatus. 3,648,596, 3-14-72, Cl. 99-450.7.

Zitomer, Bernard M.: *See*—
 Ehrlich, Joseph R., 3,678,947.

Zittel, Herman E.; Lupica, Sebastian B.; and Bate, Lamont C., to United States of America, Atomic Energy Commission. Base-borate reactor safety spray solution for radiolytic hydrogen suppression. 3,691,084, 9-12-72, Cl. 252-182.000.

Zitzler, Earl W.; and Ideboen, John, to Colonial Carbon Company. Apparatus for the continuous in-line production of multi-layered product units. 3,704,195, 11-28-72, Cl. 156-250.000.

Ziver, Garo M.: *See*—
 Domicone, Joseph J.; and Ziver, Garo M., 3,681,122.

Zivkovic, Dusan, to UCB, Societe Anonyme. 2-Imiduzolin-2-yl alkylene derivatives of benzazocines and benzothiazocines. 3,661,927, 5-9-72, Cl. 260-309.6.

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Zizak, Joseph P. Sheetrock scaffolding. 3,642,150, 2-15-72, Cl. 214-1.

Zizelmann, Walter, to Telefunken Patentverwertungsgesellschaft m.b.H. Optoelectronic semiconductor device. 3,639,770, 2-1-72, Cl. 250-218.

Zizlsperger, Johann: *See*—
 Gaeth, Rudolf; Pfannmueller, Helmut; Stastny, Fritz; Trieschmann, Hans-George; Tatzel, Hermann; and Zizlsperger, Johann, 3,632,532.

Zjuzin, Sergei Alexeevich: *See*—
 Nabiullin, Faat Khatovich; Buzova, Zoya Mikhailovna; Gertsik, Mikhailovich; and Zjuzin, Sergei Alexeevich, 3,677,824.

Zlotkin, Isadore: *See*—
 Laumann, David H. E., 3,654,064.

Zlotkin, Isadore I.; trustee in bankruptcy for: *See*—
 Laumann, David H. E., 3,654,064.

Zlotnick, Fredrick, to Zenith Radio Corporation. Automatic-recycling signal-seeking voltage-controlled tuner. 3,651,411, 3-21-72, Cl. 325-461.

Zmola, Paul C., to Combustion Engineering, Inc. Superheating steam generator. 3,683,866, 8-15-72, Cl. 122-32.000.

Zmuda, Daniel A., to Questor Corporation. Method and apparatus for bending tubing. 3,650,140, 3-21-72, Cl. 72-296.

Zmuda, Daniel A., to Oldberg Manufacturing Company. Method and apparatus for bending tubing. 3,662,575, 5-16-72, Cl. 72-21.

Zmyslowski, Wojciech; Decowska, Zofia; Gawronski, Ryszard; Borejko, Zdzislaw; Decowski, Marek; and Wirski, Janusz, to Polska Akademia Nauk. Method and apparatus of automatic estimation of nonregular curves, especially electromiographic curves and the digital system for realization of the method. 3,657,646, 4-18-72, Cl. 324-77.

Zobel, Dietmar, to VEB Stickstoffwerk Piesteritz. Process for the preparation of condensed phosphates. 3,669,622, 6-13-72, Cl. 23-197.

Zobel, Don William, to Motorola, Inc. Deadband amplifier circuit. 3,699,464, 10-17-72, Cl. 330-12.000.

Zobel, Siegfried: *See*—
 Hackenberg, Hubert; Zobel, Siegfried; Spinnler, Rainer; Becker, Erwin; and Engelsmann, Dieter, 3,633,477.

Zocco, Natale C.; and Cohen, Stanley I., to Olin Corporation. Crush-before-final curing process for making densified polyurethane foam utilizing a volatile organic foaming agent. 3,650,993, 3-21-72, Cl. 269-902.5.

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Zochil, Francesco. Quick coupler assembly. 3,675,544, 7-11-72, Cl. 94-45.00a.

Zocholl, Stanley E., to I-T-E Imperial Corporation. Solid state over-current device with variable frequency reference. 3,656,026, 4-11-72, Cl. 317-36.

Zoda, Takamichi: *See*—
 Uchiyama, Sei; Kaku, Eiichi; Kobayashi, Masahiro; Zoda, Takamichi; and Fujimoto, Shunsaku, 3,657,871.

Zodiac S.A.: *See*—
 Calame, Pierre, 3,653,202.
 Calame, Pierre, 3,665,702.

Zoebe, Hugo: *See*—
 Conradt, Hans; and Zoebe, Hugo, 3,634,890.

Zoecon Corporation: *See*—
 Calame, Jean Pierre; and Siddall, John B., 3,666,780.
 Calame, Jean Pierre; and Siddall, John B., 3,669,997.
 Henrick, Clive A.; and Siddall, John B., 3,692,851.
 Henrick, Clive A.; and Siddall, John B., 3,697,560.
 Henrick, Clive A.; and Siddall, John B., 3,697,561.
 Henrick, Clive A.; and Siddall, John B., 3,704,258.
 Siddall, John B., 3,637,752.
 Siddall, John B., 3,649,590.
 Siddall, John B., 3,649,646.
 Siddall, John B., 3,651,104.
 Siddall, John B., 3,655,700.
 Siddall, John B.; and Calame, Jean Pierre, 3,671,558.
 Siddall, John B., 3,674,663.
 Siddall, John B., 3,681,385.
 Siddall, John B.; and Calame, Jean Pierre, 3,694,526.
 Siddall, John B., 3,697,549.
 Siddall, John B., 3,697,565.
 Siddall, John B., 3,700,694.
 Siddall, John B., 3,700,696.
 Siddall, John B., 3,706,804.
 Zurluh, Rene C.; and Siddall, John B., 3,701,800.

Zoegernitz, Karl: *See*—
 Hoelzinger, Walther J.; Wenninger, Johann; Mayer, Walter; Zoegernitz, Karl; Schroetter, Hermann; and Braun, Werner, 3,669,064.

Zogg, Jon R.: *See*—
 Knapp, Philip B.; and Zogg, Jon R., 3,706,396.

Zohar, Itzhak. Last for shoe production. 3,673,623, 7-4-72, Cl. 12-133.00.

Zoli, Armando; Zoli, Luigi; and Fini, Giuseppe. World timepiece. 3,702,056, 11-7-72, Cl. 58-43.000.

Zoli, Luigi: *See*—
 Zoli, Armando; Zoli, Luigi; and Fini, Giuseppe, 3,702,056.

Zoller, John. Ceiling panel lifting device. 3,685,798, 8-22-72, Cl. 254-9.00c.

Zollinger, Joseph La Mar: *See*—
 Wright, Charles D.; and Zollinger, Joseph La Mar, 3,689,560.
 Wright, Charles D.; and Zollinger, Joseph La Mar, 3,707,555.

Zollinger, Joseph La Mar, to Minnesota Mining and Manufacturing Company. Fluorine-containing polyurethane rubbers. 3,642,705, 2-15-72, Cl. 260-77.5.

Zollner Corporation: *See*—
 Zollner, Fred, 3,702,092.

Zollner, Dieter: *See*—
 Reichelt, Bernhard; Lippert, Wolfgang; Zollner, Dieter; and Kegel, Kurt, 3,684,745.

Zollner, Dieter; and Reichelt, Bernhard, to Conradt, C. Giant electrode. 3,644,654, 2-22-72, Cl. 13-18.

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Zollner, Fred, to Zollner Corporation. Pistons for engines. 3,702,092, 11-7-72, Cl. 92-187.000.

Zollner, Friedrich, to Jenoptik Jena G.m.b.H. Holographic interference microscopy. 3,701,579, 10-31-72, Cl. 350-12.000.

Zollner, Georg: *See*—
 Eder, Ulrich; Berndt, Hans-Detlef; Kerb, Ulrich; Wiechert, Rudolf; Zollner, Georg; Buchschacher, Paul; Furlenmeier, Andre; Furst, Andor; and Muller, Marcel, 3,661,897.
 Lehmann, Hans-Gunter; Zollner, Georg; and Wiechert, Rudolf, 3,655,643.

Zolman, Clinton E.: *See*—
 Wasyluka, Paul; and Zolman, Clinton E., 3,659,505.

Zolnosky, Larry D.: *See*—
 Holecek, Joseph J.; and Zolnosky, Larry D., 3,645,526.

Zoltai, Alfred F.: *See*—
 Stoeckel, Albert L.; and Zoltai, Alfred F., 3,645,452.

Zoltan, Steven I., to Clivite Corporation. Pulsed droplet ejecting system. 3,683,212, 8-8-72, Cl. 310-8.300.

Zoltok, Harry, to Motor Coach Industries Limited. Door assembly for baggage compartments and the like. 3,665,645, 5-30-72, Cl. 49-248.000.

Zoludow, Richard S.: *See*—
 Phillips, James W.; and Zoludow, Richard S., 3,645,140.

Zompa, Thomas A., to Trina, Inc. Process of laminating a vinyl design to a vinyl backing sheet. 3,655,485, 4-11-72, Cl. 156-256.

Zon, Cornelis Van, to Industriële Onderneming Wavin N.V. Pipe construction. 3,692,336, 9-19-72, Cl. 285-175.000.

Zongl GmbH: *See*—
 Jager, Georg; Wenger, Helmut; and Zangl, Karl, 3,693,253.

Zonis, Meyer Louis; Shah, Girish Chandulal; Saunders, Kenneth Worden; and O'Connor, Michael Niall Desmond, to American Cyanamid Company. Drying of sticky thermosensitive hydrous gels. 3,634,944, 1-18-72, Cl. 34-12.

Zoo-Lab, Inc.: *See*—
 Rossbach, Donald W.; and Etes, Donald E., 3,694,014.

Zoodsma, Norman J.: *See*—
 Dykehouse, David B.; Okkonen, Oliver G.; and Zoodsma, Norman J., 3,690,332.

Zook, Elmer S.; and Ronn, Paul W., to Reed Rolled Thread Die Co. Truncated through feeding thread rolling die. 3,651,678, 3-28-72, Cl. 72-103.

Zook, James D.: *See*—
 Lee, Tzu-Chang; and Zook, James D., 3,650,602.

Zook, James David, to Honeywell Inc. Beam addressed optical memory. 3,696,346, 10-3-72, Cl. 340-174.0yc.

Zook, Morris A., Jr.: *See*—
 Louderback, Anthony W.; and Zook, Morris A., Jr., 3,695,910.

Zook, Ralph P.: *See*—
 Tomingas, Henry R.; and Zook, Ralph P., 3,649,987.

Zoot, Robert M.; and Scieszinski, James Leo, to ATI, Inc. Non-contacting optical probe. 3,679,307, 7-25-72, Cl. 356-4.000.

Zoot, Robert M., to Atti, Inc. Laser beam planar reference. 3,684,381, 8-15-72, Cl. 356-138.000.

Zopf, Vincent R.: *See*—
 Shanahan, William J.; Zopf, Vincent R.; and Loshin, Albert M., 3,689,688.

Zopf, Vincent R., to General Instrument Corporation. Test message generator for use with communication and computer printing and punching equipment. 3,633,178, 1-4-72, Cl. 340-172.5.

Zopff, Thomas E., to Burroughs Corporation. Dial type switch with improved leaf spring biased rotatable contact plate. 3,678,223, 7-18-72, Cl. 200-11.00g.

Zopfi, William L.: *See*—
 Flegel, George J.; and Zopfi, William L., 3,702,193.

Zoppi, Bruno, to Fabbrica Italiana Magneti Marelli S.p.A. Servo distributors in pneumatic braking systems of vehicles with trailer. 3,667,815, 6-6-72, Cl. 303-7.

Zoppi, Bruno, to Fabbrica Italiana Magneti Marelli S.p.A. Packing for air compressor valve. 3,679,333, 7-25-72, Cl. 417-571.000.

Zoppoth, Raymond C., to Xerox Corporation. Xerographic fusing method and apparatus. 3,655,280, 4-11-72, Cl. 355-3.

Zorayan, Vahan: *See*—
 Kalopissis, Gregoire; Bugaut, Andree; and Zorayan, Vahan, 3,694,140.

Zoric, Michael T.: *See*—
 Frill, Richard K.; and Zoric, Michael T., 3,638,770.

Zorn, Bruno: *See*—
 Traubel, Harro; Zorn, Bruno; Konig, Klaus; and Heydkamp, Wolfgang, 3,646,178.

Zorrilla, Eduardo P.; and Long, William P., to Foster Wheeler Corporation. Cooling tube ferrule. 3,707,186, 12-26-72, Cl. 163-134.000.

Zott, Ronald; and Schleifer, Klaus, to Siemens Aktiengesellschaft. Apparatus for call signalling in teletypewriter subscriber stations. 3,651,264, 3-21-72, Cl. 178-69.6.

Zouhar, Drahomir: *See*—
 Havranek, Milan; Zouhar, Drahomir; Dusik, Josef; Kucera, Jaromir; and Krejcirik, Jiri, 3,673,818.

Zouhar, Karel: *See*—
 Buran, Vojtech; Kuba, Jaromir; Uncovsky, Adolf; and Zouhar, Karel, 3,638,489.
 Buran, Vojtech; Kuba, Jaromir; Uncovsky, Adolf; and Zouhar, Karel, 3,683,178.

Zoutte, Arnold A.: *See*—
 Mulkey, Owen R.; Kleingartner, Charles A.; and Zoutte, Arnold A., 3,665,458.

Zowaski, Jeanne: *See*—
 Zowaski, Joseph G., 3,702,509.

Zowaski, Joseph G.; deceased (Zowaski, Jeanne; administratrix). Trenching machine with tapered buckets. 3,702,509, 11-14-72, Cl. 37-97.000.

Zschocke, Albrecht: *See*—
 Fischer, Adolf; Koenig, Karl-Heinz; Steinbrunn, Gustav; and Zschocke, Albrecht, 3,671,586.

Zschocke, Albrecht; and Fischer, Adolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Substituted 1,2,4-oxadiazolidine-3,5-diones. 3,632,599, 1-4-72, Cl. 260-307.

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- Zsoldos, Frank J., Jr.; and Kowalski, Anna, to Eco Sciences, Inc., mesne. Method of disinfecting with divalent and trivalent metal germicide. 3,702,298, 11-7-72, Cl. 210-62.000.
- Zubak, Jan: See—
Augustin, Jan; Trebichavsky, Ctibor; and Zubak, Jan, 3,650,922.
- Zuban, Joseph M.: See—
McGinley, Emanuel J.; and Zuban, Joseph M., 3,684,523.
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Pietti, Raymond C.; and Zuber, Theodore W., Jr., 3,649,488.
- Zubkov, Vyacheslav Petrovich: See—
Stebakov, Emelyan Semenovich; Leontiev, Alexandr Ivanovich; Simpura, Petr Mikhailovich; Kozlov, Ivan Ivanovich; Glotov, Evgeny Borisovich; Musiyachenko, Alexandr Stepanovich; Antonov, Vladimir Alexandrovich; Vshivkov, Boris Alexandrovich; Podgorny, Sevantyn Ivanovich; Zubkov, Vyacheslav Petrovich; Milov, Vladimir Nikolaevich; Navrotsky, Nikolai Viktorovich; and Nikolsky, Leonid Alexandrovich, 3,697,038.
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Kargin, Valentin Alexeevich; Polak, Lev Solomonovich; Kabanov, Viktor Alexandrovich; Zubov, Vitaly Pavlovich; and Pankova, Valentina Fedorovna, 3,666,740.
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Evans, David J. I.; and Zubryckij, Nicolas, 3,655,364.
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Blank, Benjamin; and Zuccarello, William A., 3,644,648.
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Della Porta, Paolo; Giorgi, Tiziano A.; Kindl, Bruno; and Zucchinelli, Mario, 3,652,317.
- Della Porta, Paolo; Zucchinelli, Mario; Rabusin, Elio; and Emili, Carlo, 3,663,121.
- Della Porta, Paolo; Zucchinelli, Mario; and Emili, Carlo, 3,667,513.
- Porta, Della Paolo; Giorgi, Tiziano A.; Kindl, Bruno; and Zucchinelli, Mario, 3,654,533.
- Zuchner, Werner: See—
Schroder, Jurgen; Wichmann, Onno; and Zuchner, Werner, 3,648,024.
- Zuchowski, Richard C.: See—
Carpenter, Ralph L.; and Zuchowski, Richard C., 3,653,073.
- Lahrsen, Allan E.; Hublou, Frank E.; Zuchowski, Richard C.; Vannucci, Robert J.; Lenox, Timothy L.; and Geary, David S., 3,633,176.
- Zucker, Armand S. Display packages. 3,635,331, 1-18-72, Cl. 206-45.34.
- Zucker, Carl E.: See—
Shank, Richard C.; Zucker, Carl E.; Jones, David H.; Ribb, Harry F., Jr.; and Bayard, Robert T., 3,640,844.
- Zucker, Edwin: See—
Hamaker, Ralph A.; and Zucker, Edwin, 3,697,167.
- Hoffman, Sanford G.; Jackson, Earl V.; Starkweather, Gary K.; and Zucker, Edwin, 3,703,335.
- Zucker, Edwin, to Xerox Corporation. Apparatus for image formation on the inside of a cylinder. 3,642,606, 2-15-72, Cl. 204-300.
- Zucker, Fredric E.: See—
Nagot, Marc N.; and Zucker, Fredric E., 3,679,449.
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Grimm, Harold; and Zuckerman, Ira, 3,672,662.
- Grimm, Harold H.; and Zuckerman, Ira, 3,645,524.
- Zuckerman, John S. Method of producing and harvesting white asparagus spears. 3,701,241, 10-31-72, Cl. 56-327.00a.
- Zuckerman, Marc Robert: See—
Tangredi, Albert Joseph; and Zuckerman, Marc Robert, 3,670,947.
- Zuckerman, Mathew M.; and Molof, Alan H., to Envirotech Corporation, mesne. Solid separator. 3,635,346, 1-18-72, Cl. 210-208.
- Zuckerman, Mathew M.; and Molof, Alan H., to Envirotech Corporation, mesne. System for measuring organic content of water. 3,635,564, 1-18-72, Cl. 356-128.
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- Zuckerman, Mathew M.; and Molof, Alan H., to Envirotech Corporation, mesne. Wastewater treatment sequence. 3,676,334, 7-11-72, Cl. 210-9.000.
- Zuckermans, Raymond S.: See—
Mayer, Gerald C.; Vaka, Gregory A.; Zuckermann, Raymond S.; and Jarman, Alonzo B., 3,701,414.
- Zuech, Ernest A.: See—
Brady, Donnie G.; Zuech, Ernest A.; and Gray, Roy A., 3,700,625.
- Hughes, William B.; and Zuech, Ernest A., 3,691,253.
- Kubicek, Donald H.; and Zuech, Ernest A., 3,670,043.
- Kubicek, Donald H.; and Zuech, Ernest A., 3,703,561.
- Short, James N.; Zelinski, Robert P.; Gaeth, Rudolf H.; and Zuech, Ernest A., 3,637,627.
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- Zuegel, Markus: See—
Gregor, Lawrence V.; and Zuegel, Markus, 3,658,678.
- Zueger, Karl J.: See—
von Arx, Henry R.; and Zueger, Karl J., 3,691,707.
- Zuerblis, Joseph R.; and Vancsa, Gyorgy I., to Westinghouse Electric Corporation. Digital frequency change control system. 3,659,048, 4-25-72, Cl. 178-66.
- Zuercher, John, to AMF Incorporated. Bowling ball return and storage system. 3,649,012, 3-14-72, Cl. 273-49.
- Zuev, Alfred Alexandrovich: See—
Voitsekhevsky, Bogdan Vyacheslavovich; Zuev, Alfred Alexandrovich; Plaxin, Vladimir Nikolaevich; and Makarov, Valery Nikolaevich, 3,673,849.
- Zuev, Ivan Mikhailovich; Gorsky, Anatoly Vasilievich; Medovar, Boris Izrailevich; Anenko, July Georgievich Emely; Latashi, Jury Vadimovich; and Bogachenko, Alexei Georgievich. Method of the electroslag remelting of consumable electrodes. 3,687,189, 8-29-72, Cl. 164-52.000.
- Zufelt, Paul R.: See—
Conley, Vrain C.; and Zufelt, Paul R., 3,682,299.
- Zugic, Joseph Paul: See—
Pavleszek, John; and Zugic, Joseph Paul, 3,680,350.
- Zuhlke & Brandli AG: See—
Zuhlke, Gerhard; Brandli, Paul; and Spalti, Max, 3,678,550.
- Zuhlke, Gerhard; Brandli, Paul; and Spalti, Max, to Zuhlke & Brandli AG. Apparatus for separating blanks from plastic sheets. 3,678,550, 7-25-72, Cl. 29-23.00k.
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- Zuiderweg, Frederik J.; and Scheffer, Hendrik J., to Shell Oil Company. Foam prevention in extractive stripping of sulfonane solvent extract. 3,661,773, 5-9-72, Cl. 208-321.
- Zuideveld, Reindert, to Van Leer (U.K.), Limited. Apparatus for applying reactive adhesive. 3,669,061, 6-13-72, Cl. 118-7.000.
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- Zukas, Michael F. Rotary cutter tool. 3,645,640, 2-29-72, Cl. 408-192.
- Zukas, Robert C.; and McMath, Robert C., to Allegheny Ludlum Steel Corporation. Nickel alloy. 3,649,258, 3-14-72, Cl. 75-171.
- Zukowski, Henry J. Surgical instrument illuminating endotracheal tube inserter. 3,677,262, 7-18-72, Cl. 128-6.000.
- Zuleeg, Rainer; and Ranon, Uri, to McDonnell Douglas Corporation. Negative resistance light emitting diode device. 3,701,043, 10-24-72, Cl. 331-94.500.
- Zulick, Mike: See—

- Brobeck, Von H.; and Zulick, Mike, 3,692,090.
- Zuljivech, Jeri: See—
Kinoian, George H.; and Zuljivech, Jeri, 3,690,509.
- Zuljivech, Jeri: See—
Kinoian, George H.; and Zuljivech, Jeri, 3,690,509.
- Zulkowski, Peter W.: See—
Newkirk, Marc S.; and Zulkowski, Peter W., 3,646,924.
- Zumach, Gerhard; Holtschmidt, Hans; and Kuhle, Engelbert, to Farbenfabriken Bayer Aktiengesellschaft. 1,2,4-Thiadiazolium compounds. 3,632,815, 1-4-72, Cl. 260-302.
- Zumach, Gerhard; Hammann, Ingeborg; Unterstenhofer, Gunter; and Wegler, Richard, to Farbenfabriken Bayer Aktiengesellschaft. Substituted methyl ethers of 2-branched-alkyl-4,6-dinitrophenols. 3,683,031, 8-8-72, Cl. 260-613.00d.
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- Zumbach, Heinz: See—
Zumbach, Bruno; and Zumbach, Heinz, 3,673,447.
- Zummler, Donald R., to United States of America, National Aeronautics and Space Administration. Low-mass truss structure. 3,665,670, 5-30-72, Cl. 52-648.
- Zumstein, Juan Ulrich: See—
Grandjean, Theo; Zumstein, Juan Ulrich; and Liechti, Alfred, 3,638,656.
- Zumtobel, Walter: See—
Wiesner, Ernst, 3,646,493.
- Wiesner, Ernst, 3,663,912.
- Zumtobel, Walter, Dr.: See—
Wiesner, Ernst, 3,636,488.
- Zundapp-Werke Gesellschaft mit beschränkter Haftung, Firma: See—
Straubel, Max, 3,648,677.
- Strossner, Johannes; and Drebes, Armin, 3,643,637.
- Zuntini, Franco; Gioria, Jean M.; and Foulke, Donald Gardner, to Sel-Rex Corporation. Electrodeposition of palladium. 3,637,474, 1-25-72, Cl. 204-47.
- Zuppliger, Paul, to Battelle Memorial Institute and Dunlop Holdings Limited. Sliders and locking arrangements for integrator platforms. 3,695,183, 10-3-72, Cl. 104-25.000.
- Zuppinge, Paul: See—
Reber, Willy Ernst; Nigst, Henry; Haas, Josef; Batzer, Hans; and Zuppinge, Paul, 3,669,708.
- Zur Hausen, Manfred; Hocke, Gunter; and Knepper, Wilhelm, to Chemische Werke Huls Aktiengesellschaft. Process for the catalytic dehydrogenation of cyclododecanol and catalyst therefor. 3,652,674, 3-28-72, Cl. 260-586.
- Zur Nedden, Klaus: See—
Bretschneider, Hermann; Kraft, Innsbruck; Grussner, Andre; and Zur Nedden, Klaus, 3,707,558.
- Zuraw, Charles L.: See—
Stram, Michael A.; and Zuraw, Charles L., 3,645,903.
- Zurbuchen, Louis: See—
Mosli, Ernst; and Zurbuchen, Louis, 3,687,002.
- Zurbuchen, Louis; and Novet, Hanspeter, to Werkzeugmaschinenfabrik Oerlikon-Bührle AG. Armoured turret with oval feed means. 3,687,003, 8-29-72, Cl. 89-36.00k.
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De Vol, Forrest E.; Eberhardt, George J.; and Zurbuchen, Louis E., 3,688,691.
- Zurcher, Alfred, to Sulzer Brothers Limited. Guide means for a piston in a cylinder. 3,653,303, 4-4-72, Cl. 92-162.
- Zurcher, Alfred, to Sulzer Brothers Limited. Means for spacing a piston from a cylinder during operation. 3,659,504, 5-2-72, Cl. 92-162.
- Zurcher, Frank W., Jr.: See—
Mullery, Alvin P.; and Zurcher, Frank W., Jr., 3,648,253.
- Zurek, James W.: See—
Hamouz, George J.; Dalenberg, W. Robert; and Zurek, James W., 3,672,137.
- Zurek, James W., to International Harvester Company. Side shifting implement apparatus. 3,669,194, 6-13-72, Cl. 172-280.000.
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- Zurich, Philip: See—
Chambers, Wayne L.; and Chambers, Ronald W., 3,692,647.
- Zuriff, Lee S.: See—
Evans, George L.; Kronish, Donald P.; Prevorsek, Metka; Schwartz, Benjamin S.; and Zuriff, Lee S., 3,649,461.
- Kronish, Donald P.; and Zuriff, Lee S., 3,699,003.
- Zuritsky, Herman: See—
Samuels, Marvin S., 3,651,812.
- Zuritsky, Joseph S.: See—
Samuels, Marvin S., 3,651,812.
- Zuritsky, Lee: See—
Samuels, Marvin S., 3,651,812.
- Zurla, Frank A.: See—
- Carneville, Richard J.; Howe, Leland D., Jr.; Metz, Thomas A.; Womack, Karl K.; and Zurla, Frank A., 3,656,123.
- Zurla, Frank A., to International Business Machines Corporation. Decimal addition employing two sequential passes through a binary adder in one basic machine cycle. 3,648,246, 3-7-72, Cl. 340-172.5.
- Zurmuehlen, Robert C., to American Air Filter Company, Inc. Storage tank. 3,653,531, 4-4-72, Cl. 220-5.
- Zurn Engineers: See—
Downey, Thomas A., 3,701,422.
- Zurn Industries, Inc.: See—
Hand, Alton E., 3,644,004.
- Schmid, John H.; and Thomas, Arthur E., 3,638,244.
- Zurovsky, Arnold Yanovich: See—
Demidov, Vladimir Vasilievich; Goldshtein, Oleg Semenovich; Peterson, Arnold Ivanovich; Gusev, Leonty Fedorovich; Rubina, Vera Petrovna; Zelik, Alexandr Ivanovich; Tarantsev, Boris Ivanovich; Martinson, Yan Eduardovich; Orsky, Eduard Modestovich; Okruzhnov Nikolai Nikolaevich; Purnalis, Laimon Karlovich; Sukonnikov, Felix Semenovich; Grachev, Jury Petrovich; Derevtsov, Anatoly Nikolaevich; Shekherev, Dmitry Nikolaevich; Eliseev Dmitry Stepanovich; Vodolagin, Alexei Ivanovich; Zurovsky, Arnold Yanovich; and Rita, Leonid Borisovich, 3,683,683.
- Zuryk, John: See—
Lucas, Joseph G.; and Zuryk, John, 3,697,401.
- Zussman, Hyman William; and Hausermann, Heinrich, to Geigy Chemical Corporation. Bis-triazinylaminothiobenzene compounds. 3,632,491, 1-4-72, Cl. 252-152.
- Zust, Armin: See—
Schindler, Walter; and Zust, Armin, 3,646,039.
- Schindler, Walter; Schmid, Erich; and Zust, Armin, 3,699,104.
- Schindler, Walter; Schmid, Erich; and Zust, Armin, 3,699,107.
- Schinkler, Walter; and Zust, Armin, 3,641,031.
- Zutter, Hans: See—
Suter, Hans; Zutter, Hans; and Brunner, Josef, 3,691,196.
- Zuurveen, Frans, to U.S. Philips Corporation. Dry shaver. 3,636,626, 1-25-72, Cl. 30-43.5.
- Zuurveen, Frans, to U.S. Philips Corporation, mesne. Dry-shaving apparatus. 3,639,979, 2-8-72, Cl. 30-43.6.
- Zuurveen, Frans, to U.S. Philips Corporation. Shaving-head assembly. 3,656,235, 4-18-72, Cl. 30-346.51.
- Zuzelo, Edward A. Multiple grooving of pavement. 3,700,849, 10-24-72, Cl. 299-18.000.
- Zvanut, Albert J., to Stoddy Company. Arc welding electrode and process for stainless steel. 3,670,135, 6-13-72, Cl. 219-137.000.
- Zviak, Charles: See—
Charle, Roger; Kalopissis, Gregoire; and Zviak, Charles, 3,679,102.
- Charle, Roger; Zviak, Charles; and Kalopissis, Gregoire, 3,686,701.
- Charle, Roger; Zviak, Charles; and Kalopissis, Gregoire, 3,691,270.
- Charle, Roger; Zviak, Charles; and Kalopissis, Gregoire, 3,691,271.
- Lachamp, Fleix; and Zviak, Charles, 3,662,061.
- Zwack, Robert R.: See—
Christenson, Roger M.; and Zwack, Robert R., 3,663,398.
- Christenson, Roger M.; and Zwack, Robert R., 3,663,402.
- Christenson, Roger M.; and Zwack, Robert R., 3,663,403.
- Le Bras, Louis R.; and Zwack, Robert R., 3,663,406.
- Zwagemakers, Johannes Maria Antonius: See—
Keizer, Volkert Govert; and Zwagemakers, Johannes Maria Antonius, 3,632,780.
- Zwahlen, Guenther; Reich, Ernst; and Riegler, Albert, to Ciba Limited. Pigment preparations. 3,642,686, 2-15-72, Cl. 260-37.
- Zwahlen, Guenther; Retch, Ernst; and Schoof, Karl Ewald, to Ciba-Geigy AG. Pigment preparation. 3,705,816, 12-12-72, Cl. 106-308.000.
- Zwart, Hans H. J., to University of Utah. Method of constructing a thin-walled cannula. 3,684,605, 8-15-72, Cl. 156-175.000.
- Zwecker, Karl: See—
Kind, Dieter; Naglik, Manfred; Kaltfen, Albert; and Zwecker, Karl, 3,694,709.
- Zweegers, Petrus Wilhelmus. Apparatus for spreading or sowing granular or pulverulent material. 3,633,796, 1-11-72, Cl. 222-176.
- Zweidler, Reinhard: See—
Girell Di Giovanoe, Gaudenz; and Zweidler, Reinhard, 3,635,959.
- Girell Di Giovanoe, Gaudenz; and Zweidler, Reinhard, 3,635,960.
- Kabas, Guglielmo; and Zweidler, Reinhard, 3,660,424.
- Zweig, Arnold: See—
Calusen, Victor H.; and Zweig, Arnold, 3,669,804.
- Zweig, Arnold, to American Cyanamid Company. Photodecomposition of oxazolidinediones and similar anhydrides. 3,671,239, 6-20-72, Cl. 96-27.00r.
- Zweig, Leon A., to Bell Tech Systems, Inc. Apparatus for cleaning members with fluids. 3,679,483, 7-25-72, Cl. 134-46.000.
- Zweig, Robert M.: See—

- Hejzlar, Sid; Zweig, Robert M.; and Reynolds, George D., Jr., 3,656,568.
- Zwelling, Martin I.; and Russell, Robert W., to McGraw-Edison Company. Resin impregnated transformer coil assembly. 3,691,498, 9-12-72, Cl. 336-205.000.
- Zweng, Harold C.: *See—*
Vassiliadis, Arthur; Zweng, Harold C.; Peppers, Norman A.; and Alterton, Lloyd E., 3,703,176.
- Zwetzig, Brian L.; and Coy, Don R., to Ampex Corporation. Pressure pad. 3,682,486, 8-8-72, Cl. 274-4.00b.
- Zwickert, Charles Emile. Fire resistant products and process of making the same. 3,703,385, 11-21-72, Cl. 106-137.000.
- Zwicky, Robert W.; and Gies, Robert M. Oil recovery using steam-chemical drive fluids. 3,690,376, 9-12-72, Cl. 166-272.000.
- Zwiep, Cornelis Willem; and Van Steen, Bernardus Ignatius Maria, to U.S. Philips Corporation. Switch with a delay mechanism. 3,679,849, 7-25-72, Cl. 200-33.00r.
- Zwiep, Theodore C.; Marcus, Konrad H.; and Weits, Ferdinand, to Prince Corporation. Method for removing an animal foot in the vicinity of the tarsus joint. 3,657,771, 4-25-72, Cl. 17-52.
- Zwiercan, Gary A.: *See—*
Marotta, Nicholas G.; Zwiercan, Gary A.; and Boettger, Richard M., 3,652,294.
- Zwierzyna, Casimir E.: *See—*
Merrick, William C.; and Zwierzyna, Casimir E., 3,635,330.
- Zwight, Daniel H.; and Balogh, Roy, to Mc Cabe-Powers Body Company. Articulated aerial device. 3,637,043, 1-25-72, Cl. 182-2.
- Zwijzen, Wilhelmus Antonius Joseph Marie: *See—*
Blom, Dirk; Van Overbeek, Adrianus Johannes Wilhelmus Marie; and Zwijzen, Wilhelmus Antonius Joseph Marie, 3,678,404.
- Zwirm, Robert; Johnson, Ralph E.; and Sacks, Jacob M., to United States of America, Air Force. Electronically variable capacitance. 3,702,405, 11-7-72, Cl. 307-109.000.
- Zwitsen, Wilhelmus Antonius Joseph Marie, to U.S. Philips Corporation. Oscillator having single parameter tuning means. 3,639,859, 2-1-72, Cl. 331-108.
- Zwobada, Rene L.; and Regeffe, Andre Jean, to International Standard Electric Corporation. Reed relay. 3,638,150, 1-25-72, Cl. 335-153.
- Zycha, Harald, to Balzers Patent-und Beteiligungs-Aktiengesellschaft. Multilayer optical interference filter with wideband spectral transmission region and reduced ripple. 3,697,153, 10-10-72, Cl. 350-166.000.
- Zychal, Edward, to Zyco Manufacturing Inc. Method and apparatus for transferring a magnetic sound track to movie film. 3,677,860, 7-18-72, Cl. 156-299.000.
- Zyco Manufacturing Inc.: *See—*
Zychal, Edward, 3,677,860.
- Zygiel, Alfred E. Monolithic cast body heat exchanger. 3,693,711, 9-26-72, Cl. 165-164.000.
- Zygielbaum, Arthur I.: *See—*
United States of America, National Aeronautics and Space Administration, 3,648,250.
- United States of America, National Aeronautics and Space Administration, 3,648,256.
- Zyk, Naomi, to Yissum Research Development Company of the Hebrew University of Jerusalem. Monitoring penicillin in biological substances. 3,644,177, 2-22-72, Cl. 195-103.5.
- Zykov, Vladimir Pavlovich; Panov, Alexei Alexandrovich; Prudnikov, Pavel Alexeevich; Khlopov, Mikhail Ivanovich; and Shlyapnikov, Alexei Dmitrievich. Electrolytic capacitor and a method of manufacturing the same. 3,675,087, 7-4-72, Cl. 317-230.000.
- Zyma S.A.: *See—*
Schindler, Claude, 3,706,400.
- Zyrottron Industries, Inc.: *See—*
Quinn, Frederic R., 3,651,351.
- Zysk, Edward D.; and Osovitz, Eugene E., to Engelhard Minerals & Chemicals Corporation. Platinum-rhodium vs. platinum thermocouple having base metal compensating leads. 3,679,491, 7-25-72, Cl. 136-236.000.
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1972

LIST OF REISSUE PATENTEEES

- A.M.I.S. Apparecchi e Macchine Idrauliche-Speciali S.p.A.: *See—*
D'Urso, Nicola. Re. 27,399.
- AMP Inc.: *See—*
Gillissen, Hermanus P. J. Re. 27,429.
- Adams-Russell Co., Inc.: *See—*
Oleksiak, Joseph. Re. 27,299.
- Alford, Andrew: *See—*
Banning, Harmon W. Re. 27,483.
- Allen, Perry E. Electric lock release. Re. 27,390, 6-20-72, Cl. 292—201.
- Altenpohl, W. F. Inc.: *See—*
Altenpohl, William F. Jr. Re. 27,274.
- Altenpohl, William F. Jr., to W. F. Altenpohl, Inc. Poultry shackle for overhead conveyor and carriage assembly. Re. 27,274, 1-11-72, Cl. 17—44.1.
- American Cyanamid Co.: *See—*
Layman, Ralph E. Re. 27,279.
- Skoggard, Bruno B., and Post. Re. 27,355.
- American Machine & Foundry Co.: *See—*
Walsh, Richard D. Re. 27,416.
- Amerock Corp.: *See—*
Erickson, Karl H. Re. 27,276.
- Fowler, Roland V. Re. 27,291.
- Anderson, Albert E., A. K. Newman, C. Schou, J. A. Ransom, and W. Gorski, to Textron Inc. Decompression control for internal combustion engine. Re. 27,410, 6-27-72, Cl. 123—182.
- Anderson, Charles M., to The Gallagher Co. Flotation machine and stator therefor. Re. 27,380, 5-30-72, Cl. 209-169.
- Anderson, John R., and G. S. Somekh, by Union Carbide Corp. Separation of aromatic hydrocarbons from nonaromatic hydrocarbons. Re. 27,494, 9-26-72, Cl. 260—674.
- Andrews, Peter. Dual square. Re. 27,496, 10-3-72, Cl. 83—189.
- Anocut Engineering Co.: *See—*
Petroff, Merlin O. Re. 27,312.
- Aro Corp., The: *See—*
German, Dale F. Re. 27,364.
- Aselman, Edward C., Jr., to T.N.E. Inc. Control apparatus for an electrically operable device. Re. 27,393, 6-20-72, Cl. 317—13 R.
- Azonic Products, Inc.: *See—*
Brown, Maurice H. Re. 27,398.
- Babigan, Raymond. Electrical conductor containing an ionizable gas and radioactive material to ionize the gas. Re. 27,397, 6-20-72, Cl. 174—9 F.
- Bailey, Charles R., to F. F. Murphy. Double refuse can holder. Re. 27,437, 7-18-72, Cl. 280—47.19.
- Bajulaz, Roger, to Rotopark S.A. Carrying element. Re. 27,283, 2-15-72, Cl. 198—156.
- Baldwin, Herman J., and G. W. Sederberg, to Cincinnati Milacron Inc. Rockable closure device for material cutting machine. Re. 27,495, 9-26-72, Cl. 83—145.
- Banning, Harmon W., to Andrew Alford. Precision miniature sexless coaxial connector. Re. 27,483, 9-19-72, Cl. 339—48.
- Bard, C. R., Inc.: *See—*
Ilg, John. Re. 27,359.
- Barr and Stroud Ltd.: *See—*
Ritchie, David S., and Glass. Re. 27,265.
- Bartz, Richard O. Drip receptacle and method of using the same. Re. 27,449, 8-1-72, Cl. 141—1.
- Basten, Rolf: *See—*
Dreyer, Hans-Joachim, Basten, and Porst. Re. 27,285.
- Battall, Gerard P., and P. C. Brossard, to Communications Satellite Corp. Communication system having a multiple access man-made satellite. Re. 27,478, 9-19-72, Cl. 325—304.
- Battelle Development Corp., The: *See—*
Little, Lawrence L. Re. 27,381.
- Baxter Lab. Inc.: *See—*
Hoeltzenbein, Josef. Re. 27,510.
- Bee, Mark W.: *See—*
McGillvray, Bruce L., Lang, Boehner, and Bee. Re. 27,485.
- Bell Telephone Laboratories, Inc.: *See—*
Hansen, Ralph H. Re. 27,451.
- Lepselter, Martin P. Re. 27,287.
- Schoeffler, Max S. Re. 27,422.
- Bendix Corp., The: *See—*
Granger, Cyrus M., Slavin, Carp, and Manson. Re. 27,324.
- Bentley, Donald E., and R. L. Price, to Systron-Donner Corp. Force measuring system. Re. 27,411, 6-27-72, Cl. 73—141.
- Bereday, Sigmund. Upholstery cushion construction comprising a resilient padding. Re. 27,336, 4-11-72, Cl. 5—361.
- Berg Electronics, Inc.: *See—*
Sitzler, Fred C., Kendall, and Berg. Re. 27,463.
- Berg, Quentin: *See—*
Sitzler, Fred C., Kendall, and Berg. Re. 27,463.
- Berger, Abe: *See—*
Wilkus, Edward V., and Berger. Re. 27,281.
- Bergman, Robert J., and L. R. Prohovsky, to Sperry Rand Corp. Solid stack memory. Re. 27,395, 6-20-72, Cl. 340—174 BC.
- Berteau, Octavian, H. B. Bomberger, Jr., and L. F. Plock, to RMI Co. Method of handling crevice-corrosion inducing halide solutions. Re. 27,286, 2-15-72, Cl. 75—175.5.
- Billeter, Henry R., to Sloan Valve Co. Retainer valve. Re. 27,514, 10-24-72, Cl. 137—599.2.
- Blake, George E.: *See—*
Platt, William G., and Jacks, Re. 27,323.
- Bode, Charles H., Jr., to United States Steel Corp. Quick-change mounting for water-cooled mold. Re. 27,469, 9-5-72, Cl. 164—283.
- Boebner, William E.: *See—*
McGillvray, Bruce L., Lang, Boehner, and Bee. Re. 27,485.
- Boehringer, Wilfred E., L. T. Kramer, and J. Little to McDonnell Douglas Corp. Torque linkage damper. Re. 27,450, 8-1-72, Cl. 244—103.
- Bomberger, Howard B., Jr.: *See—*
Berteau, Octavian, Bomberger, and Plock. Re. 27,286.
- Borg-Warner Corp.: *See—*
Reed, Thomas S., and Stanuch. Re. 27,481.
- Boroschew, Gerhard: *See—*
Peissker, Horst, Jager, Steinhansen, and Boroschew. Re. 27,347.
- Bradley, Theodore. Disposable office gown. Re. 27,348, 5-9-72, Cl. 2—114.
- Brasher, Donald W., to Hamilton Watch Co. Watch calendar mechanism. Re. 27,278, 1-18-72, Cl. 58—58.
- Bredeson, Dean K. Mechanical screw press. Re. 27,515, 10-24-72, Cl. 100—117.
- Brenner, William C., to Westinghouse Electric Corp. Transposed conductor for dynoelectric machines. Re. 27,489, 9-26-72, Cl. 310—213.
- Briggs, Eugene C., to Koehring Co. Oil burner. Re. 27,321, 3-28-72, Cl. 431—352.
- Briggs & Stratton Corp.: *See—*
Santi, John D. Re. 27,315.
- British Iron and Steel Research Association: *See—*
Roberts, Raymond J., and Hoyle. Re. 27,379.
- British Nylon Spinners Ltd.: *See—*
Johnson, Bryan K., and Smith. Re. 27,497.
- Britt, Kenneth W.: *See—*
Schutte, Richard W., McConnell, and Britt. Re. 27,453.
- Brossard, Pierre C.: *See—*
Battail, Gerard P., and Brossard. Re. 27,478.
- Brown, Maurice H., to Azonic Products, Inc. Apparatus for forming wire control elements. Re. 27,398, 6-20-72, Cl. 156—510.
- Brown, Omar L., to Ermal C. Frazee. Easy-opening can end with nonremovable tab. Re. 27,518, 10-31-72, Cl. 220-54.
- Brown & Root, Inc.: *See—*
Rochelle, William R., Lochridge, and Desai. Re. 27,420.
- Bryan, Morris M., Jr., and M. W. Roberts, to Parks-Cramer Co. Monitoring device for a spinning frame. Re. 27,501, 10-3-72, Cl. 57—34.
- Bullard, E. D., Co.: *See—*
Raschke, Herbert A. Re. 27,408.
- Burr-Brown Research Corp.: *See—*
McGraw, Donald R., and Graeme. Re. 27,351.
- Burroughs Corp.: *See—*
Kupsky, George A. Re. 27,273.
- Butler, Michael B. N.: *See—*
Sandbank, Carl P., and Butler. Re. 27,385.
- Buzzards Corp., The: *See—*
Francis, Samuel A. Re. 27,335.
- Cameron Iron Works, Inc.: *See—*
Williams, Leonard E., and Gruller. Re. 27,340.
- Cardinal Chemical Inc. and Producers Chemical Service Co.: *See—*
Guinn, Jerry H., and Wright. Re. 27,459.
- Cardinal Surveys Co.: *See—*
Young, Marcus C. Re. 27,272.
- Case, J. I.: *See—*
Schable, Aaron. Re. 27,534.
- Ceskoslovenska akademie ved: *See—*
Wichterle, Otto, and Lim. Re. 27,401.
- Chapman, Roger S., Jr., and P. Pilleter, Jr. Platform attachment for cranes. Re. 27,349, 5-9-72, Cl. 212—1.
- Chilton, George E.: *See—*
Simonyan, Karabet, and Chilton. Re. 27,458.
- Chirota, William W., C. G. Rigge, and T. Shewchuck, to Ford Motor Co. Single plane electric reversing switch for motor operation control. Re. 27,448, 8-1-72, Cl. 200—1.
- Ciba-Geigy AG: *See—*
Schwander, Hans R., Jung, and Hindermann. Re. 27,413.
- Soiron, Karl, Rafael, and Stockar. Re. 27,333.
- Weber, Kurt, Staebule, Ulrich, and Kern. Re. 27,470.
- Cincinnati Milacron Inc.: *See—*
Baldwin, Herman J., and Sederberg. Re. 27,495.

- Codina, Anthony E., and G. C. Puntun, to Marine & Industrial Coatings Co. Sandblaster for floors. Re. 27,314, 3-21-72, Cl. 51-8.
- Coleman, Lester E., to The Lubrizol Corp. Sulfurized Diels-Alder adducts and lubricants containing the same. Re. 27,331, 4-11-72, Cl. 252-47.5.
- Coleman, Richard L.: See—
- Cooper, Thomas A., Coleman, Morris, and Nixon. Re. 27,476.
- Coltrun Industries, Inc.: See—
- Leitner, Frank W., and Griffin. Re. 27,516.
- Columbia Gas System Service Corp.: See—
- Hemmert, Raymond A. Re. 27,396.
- Communications Satellite Corp.: See—
- Battall, Gerard P., and Brossard. Re. 27,478.
- Computer Diode Corp.: See—
- Simonyan, Karabet, and Chilton. Re. 27,458.
- Consarc Corp. and British Iron and Steel Research Association: See—
- Roberts, Raymond J., and Hoyle. Re. 27,379.
- Continental Corp. of America: See—
- Cooper, Thomas A., R. L. Coleman, H. C. Morris, and J. I. Nixon, deceased, by R. L. Nixon, administratrix, by Texaco, Inc. Separation of long chain normal paraffin hydrocarbons. Re. 27,476, 9-5-72, Cl. 206-208.
- Corby, Peter J. S., to Rondel Ltd. Trousers press. Re. 27,368, 5-16-72, Cl. 38-71.
- Corella, Arthur P.: See—
- Schneider, William S., and Corella. Re. 27,302.
- Cork, Gordon H., to Gemco Electric Co. Electric switch mechanism. Re. 27,406, 6-27-72, Cl. 200-164.
- Cowans, Kenneth W., to Hughes Aircraft Co. Cryogenic refrigerator adapted to miniaturization. Re. 27,338, 4-11-72, Cl. 62-6.
- Crown Rubber Co.: See—
- Dunn, Edwin R. Re. 27,366.
- Cox, Eugene B., to General Electric Co. Impregnated dielectric systems. Re. 27,533, 12-26-72, Cl. 29-25.42.
- Crosby, Stephen A. Tying implement and method. Re. 27,441, 7-18-72, Cl. 289-1.5.
- Cunningham, James A., and R. P. Williams, to Texas Instruments, Inc. Multilevel ohmic contacts for semiconductor devices. Re. 27,325, 4-11-72, Cl. 317-234.
- Cutler, Arthur S., and D. F. Smith, to General Electric Co. Process for developing wound coils for electromagnetic devices. Re. 27,415, 6-27-72, Cl. 29-596.
- D-Mac Ltd.: See—
- Ritchie, David S., and Glass. Re. 27,265.
- Daal Specialties Ltd.: See—
- Humphrey, Frederick H. Re. 27,438.
- Dajani, Mahmoud T., to Nalco Chemical Co. Water clarification process. Re. 27,275, 1-18-72, Cl. 210-54.
- D'Amico, John J., and S. T. Webster, to Monsanto Co. 4-p-(substituted amino)phenyl morpholines. Re. 27,311, 3-21-72, Cl. 260-247.5.
- Daugherty, Arthur J., to Film Corp. of America. Photographic printing apparatus for making plural assorted-sized prints simultaneously. Re. 27,527, 11-28-72, Cl. 355-46.
- Davis, Jack G.: See—
- Doremus, Gordon L., and Davis. Re. 27,529.
- Davis, John A., Jr., and W. J. Kunzman, to Marathon Oil Company. Increasing the thermostability of micellar dispersions. Re. 27,387, 6-13-72, Cl. 166-252.
- Davis, John A., Jr., and W. J. Kunzman, to Marathon Oil Co. Molecular weight of surfactant influencing the thermostability of micellar dispersions. Re. 27,456, 8-1-72, Cl. 166-252.
- De Cecco, Angelo L., D. E. Piccone, and I. Somos, to General Electric Co. Semiconductor rectifier with improved turn-on and turn-off characteristics. Re. 27,440, 7-18-72, Cl. 317-235.
- Deering Milliken Research Corp.: See—
- Thomas, Manuel A. Re. 27,474.
- De Koning, Jan: See—
- Van der Veen, Romke, and De Koning. Re. 27,536.
- DeLallo, George M., to General Motors Corp. and Sundstrand Corp., a fractional part interest to each. Extended range hydraulic transmission. Re. 27,307, 3-14-72, Cl. 74-687.
- De Lessux, Jacques B.: See—
- Gulliot, Jean C. Poignant, and De Lessux. Re. 27,506.
- Deere & Co.: See—
- Sanderson, Leon F., McCunn, and Hook. Re. 27,525.
- Denlinger, Carl E., to Owens-Illinois, Inc. Method and apparatus for removing moile. Re. 27,268, 1-11-72, Cl. 82-47.
- Dennison Mfg. Co.: See—
- Merser, Francis G. Re. 27,357.
- Merser, Francis G. Re. 27,391.
- D'Ercole, Giacinto C.: See—
- Johnson, Howard W., D'Ercole, and Knize. Re. 27,297.
- Desal, Ardeshir: See—
- Rochelle, William R., Lochridge, and Desal. Re. 27,420.
- Dessert, Edward P. Molded case circuit breaker and mounting means therefor. Re. 27,365, 5-16-72, Cl. 200-168.
- Dierking, William H.: See—
- Folkinghorn, Robert W., Pfeifer, and Dierking. Re. 27,305.
- Ditz-Crane: See—
- Martin, Otis M. Re. 27,502.
- Doorley, Richard B.: See—
- Wiebe, Donald, and Doorley. Re. 27,354.
- Doremus, Gordon L., and J. G. Davis. Galvanic anode. Re. 27,529, 12-12-72, Cl. 204-197.
- Dornbos, Russell H., to Gerwin Industries, Inc. Turnbuckles. Re. 27,339, 4-11-72, Cl. 29-175.
- Dorr-Oliver Inc.: See—
- Shaeffer, John A. Re. 27,326.
- Dow Chemical Co.: See—
- Layne, Gilbert S., and Huml. Re. 27,509.
- Dreyer, Hans-Joachim, R. Basten, and G. Forst, to International Standard Electric Corp. Program-controlled electronic data-processing system. Re. 27,285, 2-15-72, Cl. 340-172.5.
- Dunn, Edwin R., to Crown Rubber Co. Process of making solid foams from polymer emulsions. Re. 27,366, 5-16-72, Cl. 260-2.6.
- Dunmore Co., The: See—
- Zaruba, Wensel. Re. 27,403.
- Du Pont de Nemours, E. I., and Co.: See—
- Klanberg, Frank K. Re. 27,465.
- Nadeau, Richard G. Re. 27,524.
- Durso, August J., F. C. Maurer, and G. A. Pancyszyn: said Maurer and said Pancyszyn assignors to said Durso. Combination bottle and closure cap unit therefor. Re. 27,303, 3-14-72, Cl. 215-9.
- D'Urso, Nicola, to A.M.I.S. Apparecchi e Macchine Idrauliche Speciali S.p.A. Nonreturn valves. Re. 27,399, 6-20-72, Cl. 137-512.
- Dyke, Herbert G. Expandable carrying case with web having two stable states. Re. 27,486, 9-26-72, Cl. 190-44.
- Eastman Kodak Co.: See—
- Harvey, Donald M. Re. 27,461.
- Mauer, Paul B. Re. 27,473.
- Olson, Richard J. Re. 27,362.
- Williams, Robert F., Jr., and Jenks. Re. 27,404.
- Eaton Corp.: See—
- Jaesckke, Ralph L. Re. 27,337.
- Eaton Yale & Towne Inc.: See—
- Lauch, Robert B. Re. 27,488.
- Ecodyne Corp.: See—
- Tischler, Edward J. Re. 27,817.
- Eddy, Byron J.: See—
- Jackson, Randolph H., Eddy, Mitchell, Johnson, Hall, and Hicks. Re. 27,439.
- Egawa, Susumu, to Matsushita Electric Industrial Co., Ltd. Dynamic convergence device for three electron gun color television receiver. Re. 27,417, 7-4-72, Cl. 318-13.
- Ehe, Albert L., and C. T. Milligan, to Multicup Automation Co., Inc. Candy packaging machine. Re. 27,405, 6-27-72, Cl. 53-126.
- Elenburg, Wayland D., to Small Business Administration. Drill bit. Re. 27,316, 8-21-72, Cl. 175-339.
- Emerson Electric Co.: See—
- Schenk, John A., and Tilney. Re. 27,522.
- Erickson, Karl H., to Amerock Corp. Appliance latch. Re. 27,270, 1-18-72, Cl. 292-113.
- Ericksen, John A.: See—
- Nadrich, John. Re. 27,419.
- Extracorporeal Medical Specialties, Inc.: See—
- Pickup, Robert E. Re. 27,376.
- FMC Corp.: See—
- Jameson, Neal E. Re. 27,343.
- Looker, Olin L., and Greedy. Re. 27,528.
- Maccherone, Lawrence. Re. 27,523.
- Farrand Optical Co., Inc.: See—
- La Russa, Joseph. Re. 27,356.
- Ferro Mfg. Corp.: See—
- Littmann, Joseph C. Re. 27,407.
- Film Corp. of America: See—
- Daugherty, Arthur J. Re. 27,527.
- Fischer, Alfred, to Tenneco Chemicals, Inc. Metal salt drier compositions. Re. 27,433, 7-18-72, Cl. 106-310.
- Fisher, Gene A., and H. E. Van Winkle, to International Business Machines Corp. Motion control device. Re. 27,537, 12-26-72, Cl. 226-188.
- Flowers, Theodore R., to Warner-Lambert Co. Dispenser with heating means. Re. 27,304, 3-14-72, Cl. 222-146.
- Foling, Arthur S. Process of printing numbers on forms. Re. 27,298, 2-22-72, Cl. 270-1.
- Ford Motor Co.: See—
- Chirola, William W., Rigge, and Shewchuck. Re. 27,448.
- Oster, Earl A., and T. H. Re. 27,508.
- Formsprag Co.: See—
- Kalns, Ilmars. Re. 27,327.
- Forsberg, John W., to The Lubrizol Corp. Thermosetting resins derived from N-3-oxohydro carbon-substituted acrylamides. Re. 27,328, 4-11-72, Cl. 260-828.
- Fowler, Roland V., to Amerock Corp. Latching device. Re. 27,291, 2-22-72, Cl. 292-113.
- Francis, Samuel A., to The Buzzards Corp. Aquatic probe. Re. 27,335, 4-11-72, Cl. 73-170.
- Fraze, Ermal C.: See—
- Brown, Omar L. Re. 27,518.
- Fredd, John V., to Otis Engineering Corp. Operator devices. Re. 27,294, 2-22-72, Cl. 91-41.
- Frigitemp Corp.: See—
- Rath, Eric. Re. 27,457.
- Fujii, Hiroshi: See—
- Oda, Ryohel, Fujii, Moriga, and Higaki. Re. 27,306.
- Fujii, Kiyohi, M. Oda, J. Arita, M. Takeda, and K. Sakai, to Tanabe Selyaku Co., Ltd. Isolation of threonine and allothreonine from their mixture. Re. 27,322, 3-28-72, Cl. 260-534.
- Gallagher Co., The: See—
- Anderson, Charles M. Re. 27,380.
- Garland, Charles, to Sun Shipbuilding & Dry Dock Co. Buoyant device. Re. 27,372, 5-16-72, Cl. 9-8.

- Geigy, J. R., A.G.: See—
- Solomon, Karl, Rafael, and Stockar. Re. 27,386.
- Gemco Electric Co.: See—
- Cork, Gordon H. Re. 27,406.
- General Electric Co.: See—
- Cox, Eugene B. Re. 27,533.
- Cutler, Arthur S., and Smith. Re. 27,415.
- De Cecco, Angelo L., Piccone, and Somos. Re. 27,440.
- Kresge, James S., and Miske. Re. 27,344.
- Stern, Hansjoerg. Re. 27,352.
- Wilks, Edward V., and Berger. Re. 27,281.
- General Motors Corp.: See—
- DeLallo, George M. Re. 27,307.
- General Tire & Rubber Co., The: See—
- Uelzmann, Heinz. Re. 27,388.
- Gensheimer Joseph R., to Lord Corp. Dock fender. Re. 27,318, 3-28-72, Cl. 61-48.
- German, Dale F., to The Aro Corp. Valved/safety/speed coupler. Re. 27,364, 5-16-72, Cl. 251-149.6.
- Gerwin Industries, Inc.: See—
- Dornbos, Russell H. Re. 27,339.
- Giletta, Darlo: See—
- Pacdarini, Antonio, and Giletta. Re. 27,513.
- Glissen, Hermanus P. J., to AMP Inc. Electrical connector assembly and mounting means therefor. Re. 27,429, 7-11-72, Cl. 339-198.
- Glass, Thomas M.: See—
- Ritchie, David S., and Glass. Re. 27,265.
- Goddard Industries, Inc.: See—
- Nelson, Donald R. Re. 27,358.
- Goodyear Tire & Rubber Co., The: See—
- Jackson, Randolph H., Eddy, Mitchell, Johnson, Hall, and Hicks. Re. 27,439.
- Gorski, Walter: See—
- Anderson, Albert E., Newman, Schou, Ransom, and Gorski. Re. 27,410.
- Gould, Irwin M., G. A. Moe, by Bell and Howell Co. Slide projector. Re. 27,503, 10-10-72, Cl. 353-21.
- Graeme, Jerald G.: See—
- McGraw, Donald R., and Graeme. Re. 27,351.
- Graham, Gray. Building with walkways and a mall. Re. 27,341, 4-25-72, Cl. 52-175.
- Grange, Raymond A., E. R. Shackelford, by United States Steel Corp., of Del., to United States Steel Corp. Method for producing ultrafine grained steel. Re. 27,505, 10-10-72, Cl. 148-43.
- Granger, Cyrus M., M. Slavin, R. W. Carp., and P. St. C. Manson, to The Bendix Corp. Automobile speed control. Re. 27,324, 3-28-72, Cl. 180-105.
- Greedy, Edwin F.: See—
- Looker, Olin L., and Greedy. Re. 27,528.
- Greig, Harold G., to RCA Corp. Electrostatic printing. Re. 27,490, 9-26-72, Cl. 117-37.
- Griffin, William T.: See—
- Leitner, Frank W., and Griffin. Re. 27,516.
- Grolet, Pierre, P. Morin, and J. Parola, to Institut Français du Pétrole des Carburants et Lubrifiants. Apparatus for submarine core drilling. Re. 27,292, 2-22-72, Cl. 175-6.
- Gruller, David L.: See—
- Williams, Leonard E., and Gruller. Re. 27,340.
- Gulliot, Jean C., P. Poignant, and J. B. De Lessux, to Pechiney-Saint-Gobain. Certain thiozylurea compounds. Re. 27,506, 10-10-72, Cl. 260-306.
- Guinn, Jerry H., and W. S. Wright, to Cardinal Chemical Inc. and Producers Chemical Service Co. Well treating methods using temperature surveys. Re. 27,459, 8-15-72, Cl. 166-250.
- Gustafsson, Gunnar A.: See—
- Hjalsten, John A., and Gustafsson. Re. 27,284.
- Gutierrez, Julian. Self-actuating record holding apparatus. Re. 27,462, 8-15-72, Cl. 211-40.
- Hakim, Salomon. Cerebro-ventricular catheter. Re. 27,310, 3-21-72, Cl. 128-350.
- Hall, Charles G.: See—
- Jackson, Randolph H., Eddy, Mitchell, Johnson, Hall, and Hicks. Re. 27,439.
- Hall, Elmer D., and J. E., Jr., to Weatherford Oil Tool Co., Inc. Well bore cleaner and cement disperser. Re. 27,425, 7-11-72, Cl. 166-173.
- Hall, Jesse E., Jr.: See—
- Hall, Elmer D., and J. E., Jr. Re. 27,425.
- Hamilton Watch Co.: See—
- Brasher, Donald J., and Van Horn. Re. 27,290.
- Hansen, Ralph H., to Bell Telephone Laboratories, Inc. Polyolefins stabilized with substituted indoles. Re. 27,451, 8-1-72, Cl. 260-45.8.
- Hansen, William S.: See—
- Wiebe, Donald, and Doorley. Re. 27,354.
- Harnsberger, Bobby G., and J. T. Payton, to Texaco Inc. Method and composition for stabilizing incompetent sand containing formations. Re. 27,271, 1-11-72, Cl. 166-276.
- Harvey, Donald M., to Eastman Kodak Co. Automatic focusing for cameras. Re. 27,461, 8-15-72, Cl. 95-44.
- Harwood, Leopold A., to RCA Corp. Integrated circuit biasing arrangements. Re. 27,454, 8-1-72, Cl. 330-22.
- Hassler, Otto, to Wilco-Horgerate Medizinische Apparatebau G.m.b.H. Directional hearing aid. Re. 27,487, 9-26-72, Cl. 179-107.
- Helmbigner, Gary L., to North American Rockwell Corp. Closed loop logic gate multiple phase clock signal generator. Re. 27,394, 6-20-72, Cl. 331-57.
- Hemmert, Raymond A., to Columbia Gas System Service Corp. Warm air furnace with radiant burner. Re. 27,396, 6-20-72, Cl. 265-20.
- Higaki, Taii: See—
- Oda, Ryohel, Fujii, Moriga, and Higaki. Re. 27,306.
- Higonnet, Rene A.: See—
- Moyroud, Louis M., and Higonnet. Re. 27,374.
- Hicks, James E.: See—
- Jackson, Randolph H., Eddy, Mitchell, Johnson, Hall, and Hicks. Re. 27,439.
- Hindermann, Peter: See—
- Schwander, Hans R., Jung, and Hindermann. Re. 27,413.
- Hirata, Tadashi: See—
- Matsui, Masanao, Yamada, Uzu, Hirata, and Wakaki. Re. 27,384.
- Hjalsten, John A., and G. A. Gustafsson, to Sandvikens Jernverks Aktiebolag. Threaded drill rod element. Re. 27,284, 2-15-72, Cl. 287-117.
- Hoeltzenbein, Josef, to Baxter Lab. Inc. Artificial kidney. Re. 27,510, 10-24-72, Cl. 210-321.
- Honeywell Inc.: See—
- Owens, Wiley H. Re. 27,421.
- Hook, Richard W.: See—
- Sanderson, Leon F., McCunn, and Hook. Re. 27,525.
- Hoyle, Geoffrey: See—
- Roberts, Raymond J., and Hoyle. Re. 27,379.
- Hubbard, Otis E.: See—
- Leslie, John H., and Hubbard. Re. 27,427.
- Hughes Aircraft Co.: See—
- Cowans, Kenneth W. Re. 27,338.
- Kulb, William L., Jr. Re. 27,282.
- Hultberg, Donald E., and L. A. Jeffries, to Northrop Corp. Electron beam scanning device utilizing digital control signals, and capable of random addressing. Re. 27,520, 10-31-72, Cl. 315-12.
- Hulbert, Richard W.: See—
- Nies, Nelson P., and Hulbert. Re. 27,424.
- Huml, James O.: See—
- Layne, Gilbert S., and Huml. Re. 27,509.
- Humphrey, Frederick H., to Daal Specialties Ltd. Buckle for a safety belt. Re. 27,438, 7-18-72, Cl. 24-230.
- Ichikawa, Yataro, to Teljin Ltd. Process for the preparation of aromatic carboxylic acids. Re. 27,296, 2-22-72, Cl. 260-524.
- Iig, John, to C. R. Bard, Inc. Method and apparatus for treating blood. Re. 27,359, 5-9-72, Cl. 424-101.
- Illinois Tool Works, Inc.: See—
- Wanderer, Herbert J. Re. 27,409.
- Industrie Pirelli S.p.A.: See—
- Pacdarini, Antonio, and Giletta. Re. 27,513.
- Institut Français du Pétrole des Carburants et Lubrifiants: See—
- Grolet, Pierre, Moulin, and Parola. Re. 27,292.
- International Business Machines Corp.: See—
- Fisher, Gene A., and Van Winkle. Re. 27,537.
- McGilvray, Bruce L., Lang, Boehner, and Bee. Re. 27,485.
- Integrated Ceilings Inc.: See—
- Milner, Leonard F. Re. 27,369.
- International Flavors & Fragrances Inc.: See—
- Somerville, Willard T., and Shuster. Re. 27,332.
- International Harvester Co.: See—
- Zimmerman, Richard F. Re. 27,334.
- International Standard Electric Corp.: See—
- Dreyer, Hans-Joachim, Basten, and Forst. Re. 27,285.
- Sandbank, Carl P., and Butler. Re. 27,385.
- Interpace Corp.: See—
- Valenziano, Frank P. Re. 27,342.
- Isumura, Kiyosige, to Toyoda Automatic Loom Works, Ltd. Spinning apparatus utilizing airstream. Re. 27,499, 10-3-72, Cl. 57-58.
- Iwata, Kazutomo, and T. Maeoka, by Matsushita Electric Industrial Co. Ltd. Intermediate frequency transformer. Re. 27,363, 5-16-72, Cl. 336-87.
- Jacks, Roy T.: See—
- Platt, William G., and Jacks. Re. 27,323.
- Jackson, Randolph H., B. J. Eddy, K. D. Mitchell, E. D. Johnson, C. G. Hall, and J. E. Hicks, to The Goodyear Tire & Rubber Co. Inclined moving walkway arrangement. Re. 27,439, 7-18-72, Cl. 198-16.
- Jaeger, Joseph M., to Jemco Seals, Inc. Leakage-limiting devices for rotative machinery application. Re. 27,350, 5-9-72, Cl. 277-26.
- Jaesckke, Ralph L., to Eaton Corp. Eddy current coupling. Re. 27,337, 4-11-72, Cl. 310-105.
- Jager, Albert: See—
- Peisker, Horst, Jager, Steinhausen, and Boroschew. Re. 27,247.
- Jameson, Neal E., to FMC Corp. Material transferring apparatus. Re. 27,343, 4-25-72, Cl. 141-387.
- Jayne, Murray L. Impact tool. Re. 27,479, 9-19-72, Cl. 173-13.
- Jeffries, Lester A.: See—
- Hultberg, Donald E., and Jeffries. Re. 27,520.
- Jemco Seals, Inc.: See—
- Jaeger, Joseph M. Re. 27,350.
- Jenks, Richard H.: See—
- Williams, Robert F., Jr., and Jenks. Re. 27,404.
- Johnson, Arthur F. Process and apparatus for filtering effluent produced from aluminum reduction cells. Re. 27,383, 05-30-72, Cl. 204-67.
- Johnson, Bryan K., and F. A. Smith, to British Nylon Spinners Ltd. Method and apparatus for winding yarn. Re. 27,497, 10-3-72, Cl. 57-98.

- Johnson, Ernest D.: *See*—
Jackson, Randolph H., Eddy, Mitchell, Johnson, Hall, and Hicks. Re. 27,439.
- Johnson, Howard W., G. C. D'Ercole, and E. J. Knize, to Solo Cup Co. Dispenser with cup supporting bristles. Re. 27,297, 2-22-72, Cl. 221-308.
- Johnson, James R.: *See*—
Sowman, Harold G., and Johnson. Re. 27,264.
- Jones, Hugh L., and D. R. Stokes, to Xerox Corp. Belt tracking system. Re. 27,313, 3-21-72, Cl. 74-241.
- Jung, Jean-Pierre: *See*—
Schwander, Hans R., Jung, and Hindermann. Re. 27,413.
- Kalart Co., Inc.: *See*—
Schwartz, Morris, and Kaprelian. Re. 27,517.
- Kalns, Ilmars, to Formsprag Co. Balanced bi-directional no-back mechanism. Re. 27,327, 4-11-72, Cl. 192-8.
- Kamola, Roman C., to Xerox Corp. Automatic development controller. Re. 27,480, 9-19-72, Cl. 118-7.
- Kaprelian, Edward K.: *See*—
Schwartz, Morris, and Kaprelian. Re. 25,517.
- Kendall, Jerry A.: *See*—
Sitzler, Fred C., Kendall, and Berg. Re. 27,463.
- Kern, Walter: *See*—
Weber, Kurt, Stauble, Ulrich, and Kern. Re. 27,470.
- King-Seely Thermos Co.: *See*—
Olson, Eugene E., and Mickelson. Re. 27,412.
- Klanberg, Frank K., to E. I. du Pont de Nemours and Co. Complexes of BoH_4^- or BoH_3S^- with selected metals and phosphines. Re. 27,465, 8-22-72, Cl. 260-430.
- Knize, Elmer J.: *See*—
Johnson, Howard W., D'Ercole, and Knize. Re. 27,297.
- Koehring Co.: *See*—
Briggs, Eugene C. Re. 27,321.
- Kolb, William P., Jr., to Hughes Aircraft Co. Cold cathode gas laser discharge tube. Re. 27,282, 2-15-72, Cl. 313-217.
- Kramer, Louis T.: *See*—
Boehringer, Wilfred E., Little, and Kramer. Re. 27,450.
- Kresge, James S., and S. A. Miske, Jr., to General Electric Co. Voltage surge diverter. Re. 27,344, 4-25-72, Cl. 317-68.
- Kuehn, Howard E., to USM Corp. Drive for shell type rolls. Re. 27,445, 8-1-72, Cl. 29-116.
- Kunzman, William J.: *See*—
Davis, John A., Jr., and Kunzman. Re. 27,387.
- Kupsky, George A., to Burroughs Corp. Electro-optical indicator devices with multiple anodes for each cell. Re. 27,273, 1-11-72, Cl. 313-109.5.
- Kyowa Hakko Kogyo Co., Ltd.: *See*—
Matsui, Masanao, Yamada, Uzu, Hirata, and Wakaki. Re. 27,384.
- Kyp, Robert J. Electric light bulb with oscillating filament. Re. 27,443, 7-18-72, Cl. 315-267.
- Lamberton, Bruce A. Method for encasing rigid members with concrete. Re. 27,460, 8-15-72, Cl. 264-86.
- Land, Edwin H., to Polaroid Corp. Camera with exposure control and flash apparatus. Re. 27,468, 9-5-72, Cl. 95-11.
- Landers, Harvey S. Hydraulic system for operating a cylinder. Re. 27,288, 2-15-72, Cl. 100-218.
- Lang, Donald J.: *See*—
McGilvray, Bruce L., Lang, Boehner, and Bee. Re. 27,485.
- La Russa, Joseph, to Farrand Optical Co., Inc. Infinite optical image-forming apparatus. Re. 27,356, 5-9-72, Cl. 350-157.
- Lauck, Robert R., to Eaton Yale & Towne Inc. Hydrostatic transmission control system. Re. 27,488, 9-26-72, Cl. 60-19.
- Laut, William. Method and apparatus for centrifugal separation. Re. 27,493, 9-26-72, Cl. 210-78.
- Layman, Ralph E., to American Cyanamid Co. Dimer acid containing alkyl resinous coating compositions and process of preparing the same. Re. 27,279, 1-25-72, Cl. 260-22.
- Layne, Gilbert S., and J. O. Huml, to Dow Chemical Co. Separation of aluminum from impure aluminum sources. Re. 27,509, 10-24-72, Cl. 75-68.
- Leitner, Frank W., and W. T. Griffin, to Coltron Industries, Inc. Cloth straightening apparatus. Re. 27,516, 10-31-72, Cl. 26-51.5.
- Leonard, John R., to Mobil Oil Corp. Underwater low temperature separation unit. Re. 27,308, 3-14-72, Cl. 166-5.
- Lenseiter, Martin P., to Bell Telephone Laboratories, Inc. Method of fabricating semiconductor contacts. Re. 27,287, 2-15-72, Cl. 117-212.
- Leslie, John H., and O. E. Hubbard, to Signode Corp. Feed chute booster for flexible strap. Re. 27,427, 7-11-72, Cl. 100-26.
- Lewis, John C., to Tucel Industries, Inc. Brush machinery and brush constructions. Re. 27,455, 8-1-72, Cl. 300-2.
- Lillienstern, Vera D., to Mattel, Inc. Retractable hair doll. Re. 27,267, 1-11-72, Cl. 46-135.
- Lim, Drahoslav: *See*—
Wichterle, Otto, and Lim. Re. 27,401.
- Lincoln, James D., and J. F. Wasmund, to Whittaker Corp. Low temperature curing nylon-epoxy-phenolic adhesive. Re. 27,426, 7-11-72, Cl. 260-831.
- Little Jane: *See*—
Boehringer, Wilfred E., Kramer, and Little. Re. 27,450.
- Little, Lawrence L., to The Battelle Development Corp. Preparation of imitation sour cream. Re. 27,381, 5-30-72, Cl. 99-54.
- Littmann, Joseph C., to Ferro Mfg. Corp. Window regulator with flexible shaft. Re. 27,407, 6-27-72, Cl. 74-89.2.
- Locati, Norman C., to Omark Industries Inc. Impact mowing apparatus and system. Re. 27,511, 10-24-72, Cl. 56-245.
- Lochridge, Joe C.: *See*—
Rochelle, William R., Lochridge, and Desai. Re. 27,420.
- Loeb, Sidney: *See*—
Manjikian, Serop, Loeb, and McCutchan. Re. 27,319.
- Lohn, Edwin E. Universal carburetor-manifold adaptor. Re. 27,378, 5-30-72, Cl. 138-39.
- Looker, Olin L., and E. F. Greedy, by FMC Corp. Method of and apparatus for harvesting vine crops. Re. 27,528, 11-28-72, Cl. 171-1.
- Lord Corp.: *See*—
Gensheimer, Joseph R. Re. 27,318.
- Lubrizol Corp.: *See*—
Coleman, Lester E. Re. 27,331.
- Ludwig, Carl, to McDowell-Wellman Engineering Co. Railroad car pushing apparatus. Re. 27,300, 2-22-72, Cl. 104-176.
- Lutzker, Lawrence D.: *See*—
Lutzker, Robert S. Re. 27,301.
- Lutzker, Robert S., assignor of a fractional part interest to Lawrence D. Lutzker. Can closure plug. Re. 27,301, 2-29-72, Cl. 220-60.
- Maccherone, Lawrence, to FMC Corp. Machine for automatically placing bags on a wicket. Re. 27,523, 11-28-72, Cl. 214-8.
- Macovski, Albert, to Stanford Research Institute. Photography using spatial filtering. Re. 27,491, 9-26-72, Cl. 95-12.2.
- Maeoka, Tatsuo: *See*—
Iwata, Kazutomo, and Maeoka. Re. 27,363.
- Magnavox Co., The: *See*—
Mayle, Louis F. Re. 27,329.
- Manjikian, Serop, to Universal Water Corp. Production of semipermeable membranes. Re. 27,280, 2-15-72, Cl. 264-41.
- Manjikian, Serop, S. Loeb, and J. W. McCutchan, to The Regents of the University of California. Method of preparing a semipermeable membrane. Re. 27,319, 3-28-72, Cl. 264-41.
- Manson, Peter St. C.: *See*—
Granger, Cyrus M., Slavin, Carp, and Manson. Re. 27,324.
- Marathon Oil Co.: *See*—
Davis, John A., Jr., and Kunzman. Re. 27,387.
- Marcmann, Emil G. Thermally insulated tank structure. Re. 27,330, 4-11-72, Cl. 220-9.
- Marine & Industrial Coatings Co.: *See*—
Codina, Anthony E., and Puntun. Re. 27,314.
- Marotta, Nicholas G.: *See*—
Murray, Daniel G., Marotta, and Boettger. Re. 27,531.
- Martin, Otis M., to Ditz Crane. Shake strip assembly for roofing or siding. Re. 27,502, 10-10-72, Cl. 52-94.
- Martin, Thomas W., and A. F. Warner, by Arthur J. Rebrowick and Cutters Machine Co. Inc. Cutting apparatus for cloth spreading machine. Re. 27,538, 12-26-72, Cl. 270-31.
- Matsui, Masanao, Y. Yamada, K. Uzu, T. Hirata, and S. Wakaki, to Kyowa Hakko Kogyo Co., Ltd. Acylated mitosenes. Re. 27,384, 6-13-72, Cl. 260-326.3.
- Matsushita Electric Industrial Co., Ltd.: *See*—
Egawa, Susumu. Re. 27,417.
- Iwata, Kazutomo, and Maeoka. Re. 27,363.
- Mattel, Inc.: *See*—
Lillienstern, Vera D. Re. 27,267.
- Mauer, Paul B., to Eastman Kodak Co. Thin film coating for sunglasses. Re. 27,473, 9-5-72, Cl. 350-2.
- Maurer, Frank C.: *See*—
Dursol, August J., Maurer, and Panczysyn. Re. 27,303.
- Mayle, Louis F., to The Magnavox Co. Search tune system for television receivers. Re. 27,329, 4-11-72, Cl. 178-5.8.
- Mayne, William H., to Petty Geophysical Engineering Co. Method and apparatus for improving seismic impact signals. Re. 27,418, 7-4-72, Cl. 181-5.
- McConnell, Albert L.: *See*—
Schutte, Richard W., Britt, and McConnell. Re. 27,453.
- McCunn, Myron L.: *See*—
Sanderson, Leon F., McCunn, and Hook. Re. 27,525.
- McDonr, J. Douglas Corp.: *See*—
Boehringer, Wilfred E., Kramer, and Little. Re. 27,450.
- McDowell-Wellman Engineering Co.: *See*—
Ludwig, Carl. Re. 27,300.
- McGilvray, Bruce L., D. J. Lang, W. E. Boehner, and M. W. Bee, by International Business Machines Corp. Data processing system execution retry control. Re. 27,485, 9-26-72, Cl. 340-172.5.
- McGraw, Donald R., and J. G. Graeme, to Burr-Brown Research Corp. Differential DC amplifier. Re. 27,351, 5-9-72, Cl. 330-30.
- McGraw-Edison Co.: *See*—
Weir, Henry J. Re. 27,442.
- McNaughton, John R. Automatic shape control system for bar mill. Re. 27,370, 5-16-72, Cl. 72-8.
- Merser, Francis G., to Dennison Mfg. Co. Tag attaching or bundle fastening device. Re. 27,357, 5-9-72, Cl. 24-16.
- Merser, Francis G., to Dennison Mfg. Co. Connector for holding articles together. Re. 27,391, 6-20-72, Cl. 24-16 PB.
- Mickelson, Harold A.: *See*—
Olson, Eugene E., and Mickelson. Re. 27,412.
- Midland Mfg. Co., Inc.: *See*—
Mitchell, James L. Re. 27,530.
- Miller, Harmon B. Reclosable package. Re. 27,361, 5-9-72, Cl. 229-43.
- Miller, Verle A., to Standard Brands Chemical Industries, Inc. Latex compositions. Re. 27,269, 1-11-71, Cl. 260-29.7.

- Millikan, Charles T.: *See*—
Ehe, Albert L., and Milligan. Re. 27,405.
- Milner, Leonard F., to Integrated Ceilings Inc. Ceiling light diffuser system. Re. 27,369, 5-16-72, Cl. 240-9.
- Minnesota Mining & Mfg. Co.: *See*—
Fuerckhauser, Gerhard W. R., Sagawa, and Wittnebel. Re. 27,375.
- Sowman, Harold G., and Johnson. Re. 27,264.
- Miske, Stanley A., Jr.: *See*—
Kresge, James S., and Miske. Re. 27,344.
- Mitchell, James L., to Midland Mfg. Co., Inc. Land leveling implement. Re. 27,530, 12-12-72, Cl. 172-780.
- Mitchell, Kenneth D.: *See*—
Jackson, Randolph H., Eddy, Mitchell, Johnson, Hall, and Hicks. Re. 27,439.
- Mitsui Toatsu Chemicals Inc.: *See*—
Otsuka, Elji, and Salda. Re. 27,377.
- Mobil Oil Corp.: *See*—
Leonard, John R. Re. 27,308.
- Mobil Temp, Inc.: *See*—
Robinson, Donald E. Re. 27,392.
- Moe, Gerald A.: *See*—
Gould, Irwin M., and Moe. Re. 27,503.
- Mollins Ltd.: *See*—
Williamson, David T. N. Re. 27,277.
- Monsanto Co.: *See*—
D'Amico, John J., and Webster. Re. 27,311.
- Shelby, Richard K. Re. 27,435.
- Moriga, Hiroyuki: *See*—
Oda, Ryohel, Fujii, Moriga, and Higaki. Re. 27,306.
- Morris, Harold D., to Systron-Donner Corp. Position detecting transducer. Re. 27,532, 12-12-72, Cl. 73-517.
- Morris, Herbert C.: *See*—
Cooper, Thomas A., Coleman, Morris, and Nixon. Re. 27,467.
- Moulin, Pierre: *See*—
Grolet, Pierre, Moulin, and Parola. Re. 27,292.
- Moyroud, Louis M., and R. A. Higonnet. Type composing apparatus. Re. 27,374, 5-16-72, Cl. 95-4.5.
- Multicup Automation Co., Inc.: *See*—
Ehe, Albert L., and Milligan. Re. 27,405.
- Mundinger, William D., to Pullman Inc. Pneumatic outlet assembly for hoppers. Re. 27,471, 9-5-72, Cl. 302-52.
- Murphy, F. F.: *See*—
Bailey, Charles R. Re. 27,437.
- Murray, Daniel G., N. G. Marotta, and R. M. Boettger, to National Starch and Chemical Corp. Amylose coated, fried potato product and process for preparing the same. Re. 27,531, 12-12-72, Cl. 99-100.
- Musgrave, Merrill N. Device for separating air entrained articles of varying size. Re. 27,414, 6-27-72, Cl. 241-51.
- N.V. Ingenieursbureau voor Systemen en Octrooien Spanstaal: *See*—
Van der Veen, Romke. Re. 27,526.
- Van der Veen, Romke. Re. 27,535.
- Van der Veen, Romke, and De Koning. Re. 27,536.
- Nadeau, Richard G., to E. I. du Pont de Nemours and Co. Enzymatic determination of nitrogen-containing compounds and enzymes reactive therewith. Re. 27,524, 11-28-72, Cl. 195-103.5.
- Nadrich, John, and J. A. Ericson. Closure for a bottom pour metallurgical ladle. Re. 27,419, 7-4-72, Cl. 222-548.
- Nalco Chemical Co.: *See*—
Dajani, Mahmoud T. Re. 27,275.
- National Starch and Chemical Corp.: *See*—
Murray, Daniel G., Marotta, and Boettger. Re. 27,531.
- Naylor Pipe Cleaning Co.: *See*—
Naylor, William S. Re. 27,346.
- Naylor, William S., to Naylor Pipe Cleaning Co. Tank unit for receiving and transporting sewer solids. Re. 27,346, 4-25-72, Cl. 134-169.
- Nelson, Donald R., to Goddard Industries, Inc. Top entry valve. Re. 27,358, 5-9-72, Cl. 251-327.
- Neotec Corp.: *See*—
Selgin, Paul J. Re. 27,270.
- Newman, Albert K.: *See*—
Anderson, Albert E., Newman, Schou, Ransom, and Gorski. Re. 27,410.
- Nickola, Anne D. Mounting pedestal for utilities. Re. 27,400, 6-20-72, Cl. 317-99.
- Nielsen, Anker J., to M. B. Skinner Co. Bits for pipe punches. Re. 27,431, 7-11-72, Cl. 137-318.
- Nies, Nelson P., and B. W. Hulbert, to United States Borax & Chemical Corp. Zinc borate of low hydration and method for preparing same. Re. 27,424, 7-4-72, Cl. 23-59.
- Nippon Electric Co. Ltd.: *See*—
Okamura, Shiro. Re. 27,371.
- Nixon, John I.: *See*—
Cooper, Thomas A., Coleman, Morris, and Nixon. Re. 27,476.
- Nixon, Roberta L.: *See*—
Cooper, Thomas A., Coleman, Morris, and Nixon. Re. 27,476.
- North American Rockwell Corp.: *See*—
Helmblinger, Gary L. Re. 27,394.
- Polkinghorn, Robert W., Pfeiffer, and Dierking. Re. 27,305.
- Northrop Corp.: *See*—
Hultberg, Donald E., and Jeffries. Re. 27,520.
- Oda, Mutsuo: *See*—
Fujii, Kichiro, Oda, Arita, Takeda, and Sakai. Re. 27,322.
- Oda, Ryohel, H. Fujii, H. Moriga, and T. Higaki. Phthalide compounds and their preparation. Re. 27,306, 3-14-72, Cl. 260-343.4.
- Okamura, Shiro, to Nippon Electric Co. Ltd. Recording system with provision for fast or slow reproduction. Re. 27,371, 5-16-72, Cl. 178-6.6.
- Oleksiak, Joseph, to Adams-Russell Co., Inc. N-way electrical power divider wherein N is an odd number. Re. 27,299, 2-22-72, Cl. 333-8.
- Olivier, Kenneth L., to Union Oil Co. of California. Preparation of beta-acyloxy-carboxylic acids and alpha, beta-unsaturated carboxylic acids by oxidative carbonylation. Re. 27,360, 5-9-72, Cl. 260-497.
- Olson, Eugene E., and H. A. Mickelson, to King-Seely Thermos Co. Vibratory finishing apparatus and method. Re. 27,412, 6-27-72, Cl. 51-163.
- Olson, Richard J., to Eastman Kodak Co. Camera with retractable hand grip. Re. 27,362, 5-16-72, Cl. 95-86.
- Omark Industries Inc.: *See*—
Locati, Norman C. Re. 27,511.
- Onitsuka, Kihachiro, Athletic shoes. Re. 27,512, 10-24-72, Cl. 36-2.5.
- Oster, Earl A. and T. H., to Ford Motor Co. Machine for disassembling components from composite products. Re. 27,508, 10-10-72, Cl. 241-186.
- Oster, Thomas H.: *See*—
Oster, Earl A. and T. H. Re. 27,508.
- Otis Engineering Corp.: *See*—
Fredd, John V. Re. 27,294.
- Taylor, Donald F., Jr. Re. 27,484.
- Otsuka, Elji, and Toyoyasu Salda, to Mitsui Toatsu Chemicals Inc., Synthesis of urea. Re. 27,377, 5-30-72, Cl. 260-555.
- Owens-Illinois, Inc.: *See*—
Denlinger, Carl E. Re. 27,268.
- Santelli, Thomas R. Re. 27,484.
- Owens, Wiley H., to Honeywell Inc. Pyrotechnic means for interrupting the light output of a flash bulb. Re. 27,421, 7-4-72, Cl. 250-201.
- Paccliarini, Antonio, and D. Giletta, to Industrie Pirelli S.p.A. Apparatus to print an embossed pattern along the peripheral band of a toroidal article. Re. 27,513, 10-24-72, Cl. 425-39.
- Pan American Petroleum Corp.: *See*—
Vincent, Renic P., and Wilder. Re. 27,434.
- Panczysyn, George A.: *See*—
Dursol, August J., Maurer, and Panczysyn. Re. 27,303.
- Parks-Cramer Co.: *See*—
Bryan, Morris M., Jr., and Roberts. Re. 27,501.
- Parola, Jean: *See*—
Grolet, Pierre, Moulin, and Parola. Re. 27,292.
- Payton, Joy T.: *See*—
Harnsberger, Bobby G., and Payton. Re. 27,271.
- Pechacek, Joseph H. Applicator apparatus attachable to a wheeled agricultural implement. Re. 27,295, 2-22-72, Cl. 222-176.
- Pechiney-Saint-Gobain: *See*—
Guillot, Jean C., Poignant, and De Lessuex. Re. 27,506.
- Peissker, Horst, A. Jager, W. Steinhäuser, and G. Boroschew, to Schering AG. Method of combating insects and acarids with certain phenyl-carbamate derivatives. Re. 27,347, 4-25-72, Cl. 424-248.
- Petroff, Merlin O., to Anocut Engineering Co. Control system for electrolytic machining apparatus. Re. 27,312, 3-21-72, Cl. 204-224.
- Petty Geophysical Engineering Co.: *See*—
Mayne, William H. Re. 27,418.
- Pfeifer, Arthur F.: *See*—
Polkinghorn, Robert W., Pfeiffer, and Dierking. Re. 27,305.
- Phelon, R. E., Co., Inc.: *See*—
Piteo, Michael J. Re. 27,477.
- Piccone, Dante E.: *See*—
De Cecco, Angelo L., Piccone, and Somos. Re. 27,440.
- Pickup, Robert E., to Extracorporeal Medical Specialties, Inc. Roller pump heads. Re. 27,376, 5-30-72, Cl. 417-477.
- Pilletere, Philip, Jr.: *See*—
Chapman, Roger S., and Pilletere. Re. 27,349.
- Pincince, Richard T.: *See*—
Torrenzano, Archie P., and Pincince. Re. 27,432.
- Piteo, Michael J., to R. E. Phelon Co., Inc. Breakerless ignition system with automatic spark advance using triggering coil. Re. 27,477, 9-19-72, Cl. 123-148.
- Platt, William G., and R. T. Jacks, assignors to G. E. Blake and R. J. Youngblood, Jr., a fractional part interest to each. Chuck. Re. 27,323, 3-28-72, Cl. 279-2.
- Plaven, Erik. Apparatus for extracting starch and gluten from a dough of wheat flour. Re. 27,402, 6-20-72, Cl. 127-25.
- Plock, Layne F.: *See*—
Berteau, Octavian, Bomberger, and Plock. Re. 27,286.
- Poignant, Pierre: *See*—
Guillot, Jean C., Poignant, and De Lessuex. Re. 27,506.
- Polaroid Corp.: *See*—
Land, Edwin H. Re. 27,468.
- Tiffany, Douglas B. Re. 27,320.
- Polkinghorn, Robert W., A. F. Pfeiffer, and W. H. Dierking, to North American Rockwell Corp. Field effect transistor driver using capacitor feedback. Re. 27,305, 3-14-72, Cl. 307-251.
- Porst, Gottfried: *See*—
Dreyer, Hans-Joachim, Basten, and Porst. Re. 27,285.
- Post, William C.: *See*—
Skoggard, Bruno B., and Post. Re. 27,355.

Precision Paper Tube Co.: *See*—
Thomas, Anthony V. Re. 27,500.
Price, Robert L.: *See*—
Bentley, Donald E., and Price. Re. 27,411.
Producers Chemical Service Co.: *See*—
Guinn, Jerry H., and Wright. Re. 27,459.
Prohofsky, Le Roy A.: *See*—
Bergman, Robert J., and Prohofsky. Re. 27,395.
Puerckhauer, Gerhard W. R., B. K. Sagawa, and B. W. Wittnebel, to Minnesota Mining and Mfg. Co. Image receptor sheets containing organic silver salts and metal ion image. Re. 27,375, 5-30-72, Cl. 96-94.
Pullman Inc.: *See*—
Mundinger, William D. Re. 27,471.
Punton, George C.: *See*—
Codina, Anthony E., and Punton. Re. 27,314.
RCA Corp.: *See*—
Greig, Harold G. Re. 27,490.
Harwood, Leopold A. Re. 27,454.
RMI Co.: *See*—
Bertea, Octavian, Bomberger, and Plock. Re. 27,286.
Radio Corp. of America: *See*—
Wheatley, Carl F., Jr. Re. 27,492.
Rafael, Hans.: *See*—
Solron, Karl, Rafael, and Stockar. Re. 27,333.
Solron, Karl, Rafael, and Stockar. Re. 27,386.
Ransom, James A.: *See*—
Anderson, Albert E., Newman, Schou, Ransom, and Gorski. Re. 27,410.
Raschke, Herbert A., to E. D. Bullard Co. Clamp-on protective hood. Re. 27,408, 6-27-72, Cl. 2-10.
Rath, Eric, to Frigitemp Corp. Method for storing and transporting food in a fresh condition. Re. 27,457, 8-1-72, Cl. 62-78.
Redo, Ronald W. Maze device. Re. 27,521, 10-31-72, Cl. 273-153.
Reed, Thomas S., and E. S. Stanuch, to Borg-Warner Corp. Adjustable steering mechanism employing memory unit. Re. 27,481, 9-19-72, Cl. 74-493.
Rex Chainbelt Inc.: *See*—
Symons, Loren G. Re. 27,482.
Richards, John H., to United States Steel Corp. Process of using a low carbon steel composition in a continuous casting process. Re. 27,447, 8-1-72, Cl. 29-527.
Riester, William C., to Trico Products Corp. Windshield cleaning system for motor vehicles. Re. 27,423, 7-4-72, Cl. 318-443.
Rigge, Carl G.: *See*—
Chirota, William W., Shewchuck, and Rigge. Re. 27,448.
Ritchie, David S., and T. M. Glass, fractional part interest to Barr and Stroud Ltd., and D-Mac Ltd. Apparatus for automatically copying lines. Re. 27,265, 1-11-72, Cl. 95-12.
Roberts, Morris W.: *See*—
Bryan, Morris M., Jr., and Roberts. Re. 27,501.
Roberts, Raymond J., and G. Hoyle, to Consarc Corp. and British Iron and Steel Research Association. Consumable electrode furnace for electroslag refining. Re. 27,379, 5-30-72, Cl. 13-9.
Robinson, Donald E., to Mobil Temp, Inc. Heater construction. Re. 27,392, 6-20-72, Cl. 126-91 A.
Rochele, William R., J. C. Lochridge, and A. R. Desai, to Brown & Root, Inc. Marine apparatus for supporting flexible elongate pipe means during underwater laying thereof. Re. 27,420, 7-4-72, Cl. 61-72.3.
Rodgers, Wayne V.: *See*—
Schneider, William S., and Corella. Re. 27,302.
Rogers, Donald J., and J. A. Van Horn, to Hamilton Watch Co. Watch calendar setting mechanism. Re. 27,290, 2-22-72, Cl. 58-58.
Rondel Ltd.: *See*—
Corby, Peter J. S. Re. 27,368.
Rosaen, Borje O.: *See*—
Rosaen, Nils O., B. O., and O. E. Re. 27,466.
Rosaen, Nils O., B. O., and O. E., to Universal Filters, Inc. Method of manufacturing pleated filters. Re. 27,466, 8-22-72, Cl. 156-74.
Rosaen, Oscar E.: *See*—
Rosaen, Nils O., B. O., and O. E. Re. 27,466.
Rotopark S.A.: *See*—
Bajulaz, Roger. Re. 27,283.
Sachs, Maxwell. Footwear. Re. 27,373, 5-16-72, Cl. 36-2.5.
Sagawa, Burt K.: *See*—
Puerckhauer, Gerhard W. R., Sagawa, and Wittnebel. Re. 27,375.
Saida, Toyoyasu.: *See*—
Otsuka, Eiji, and Saida. Re. 27,377.
Sakai, Kanzo.: *See*—
Fujii, Kichirō, Oda, Arita, Takeda, and Sakai. Re. 27,322.
Sandbank, Carl P., and M. B. N. Butler, to International Standard Electric Corp. Scanned line radiation source using a reverse biased P-N junction adjacent a Gunn diode. Re. 27,385, 6-13-72, Cl. 317-235.
Sanderson, Leon F., M. L. McCunn, and R. W. Hook, to Deere & Co. Cotton harvester. Re. 27,525, 11-28-72, Cl. 56-30.
Sandvikens Jernverks Aktiebolag.: *See*—
Hjalsten, John A., and Gustafsson. Re. 27,284.
Santelli, Thomas R., to Owens-Illinois, Inc. Method of forming partly foamed plastic articles. Re. 27,484, 9-26-72, Cl. 264-45.
Santi, John D., to Briggs & Stratton Corp. Reed switch adapted for rapid cycling. Re. 27,315, 8-21-72, Cl. 336-154.

Sawyer, Bruce A. Magnetic positioning device. Re. 27,289, 2-15-72, Cl. 318-38.
Sawyer, Bruce A. Magnetic positioning device. Re. 27,436, 7-18-72, Cl. 246-29.
Schaible, Aaron, deceased, to J. I. Case. Control system for concrete pump. Re. 27,534, 12-26-72, Cl. 417-342.
Schenk, John A., and R. B. Tilney, to Emerson Electric Co. System for maintaining pressure in refrigeration systems. Re. 27,522, 11-28-72, Cl. 62-196.
Schering A.G.: *See*—
Peisker, Horst, Jager, Steinhausen, and Boroschew. Re. 27,347.
Scheuerman, Ronald F.: *See*—
Scott, Paul R., and Scheuerman. Re. 27,309.
Schlosser, Paul W. Piston assembly for pump. Re. 27,382, 5-30-72, Cl. 417-139.
Schneider, Carl.: *See*—
Schneider, William S., and Corella. Re. 27,302.
Schneider, William S., and A. P. Corella, assignors to Wayne V. Rodgers and Carl Schneider, a fractional part interest to each. Method of making dispensing containers. Re. 27,302, 2-29-72, Cl. 53-28.
Schoeller, Max S., to Bell Telephone Laboratories, Inc. Automatic recall switching system. Re. 27,422, 7-4-72, Cl. 479-18.
Schou, Chris.: *See*—
Anderson, Albert E., Newman, Schou, Ransom, and Gorski. Re. 27,410.
Schutte, Richard W., K. W. Britt, and A. L. McConnell, by Scott Paper Co. Absorbent paper industrial wiper or towel. Re. 27,453, 8-1-72, Cl. 162-117.
Schwalm, Wilhelm, to Vickers-Zimmer Aktiengesellschaft-Planung und Bau von Industrieanlagen. Worm melter and extruder. Re. 27,539, 12-26-72, Cl. 259-191.
Schwander, Hans R., J. Jung, and P. Hindermann, to Ciba-Gelby AG. 1-alkylamino-4-arylaminanthraquinone sulfonic acid reactive dyes. Re. 27,413, 6-27-72, Cl. 260-372.
Schwart, Morris, and E. K. Kaprelian, to The Kalart Co., Inc. Method of cumulatively recording intelligence on a record card. Re. 27,517, 10-31-72, Cl. 96-27.
Scott Paper Co.: *See*—
Schutte, Richard W., Britt, and McConnell. Re. 27,453.
Scott, Paul R., and R. F. Scheuerman, to Shell Oil Co. Process for transporting viscous fluids. Re. 27,309, 3-14-72, Cl. 65-45.
Sederberg, George W.: *See*—
Baldwin, Herman J., and Sederberg. Re. 27,495.
Selgin, Paul J., to Neotec Corp. Null type comparison reflectometer wherein nulling is accomplished by moving the light detector. Re. 27,270, 1-11-72, Cl. 356-211.
Shackelford, Edward R.: *See*—
Grange, Raymond A., and Shackelford. Re. 27,505.
Shaler Co. The.: *See*—
Smith, Clarence J. Re. 27,266.
Sheaffer, John A., to Dorr-Oliver Inc. Trunnion valve for continuous rotary filter. Re. 27,326, 4-11-72, Cl. 210-91.
Shelby, Richard K., to Monsanto Co. Molding machines. Re. 27,435, 7-18-72, Cl. 425-167.
Shell Oil Co.: *See*—
Scott, Paul R., and Scheuerman. Re. 27,309.
Shepherd, Kenneth M., and R. L. Whippleman, to Container Corp. of America. Package for sterilized article. Re. 27,519, 10-31-72, Cl. 229-87.
Shettel, Ralph E. Irrigation control. Re. 27,353, 5-9-72, Cl. 251-147.
Shewchuck, Thomas.: *See*—
Chirota, William W., Rigge, and Shewchuck. Re. 27,448.
Shuster, Edward J.: *See*—
Somerville, Willard T., and Shuster. Re. 27,332.
Signode Corp.: *See*—
Leslie, John H., and Hubbard. Re. 27,427.
Simonvan, Karabet, and G. E. Chilton, to Computer Diode Corp. Solid state temperature measuring device. Re. 27,458, 8-15-72, Cl. 73-362.
Sitzler, Fred C., J. A. Kendall, and Q. Berg, said Sitzler and said Kendall assors. to Berg Electronics, Inc. Connector block. Re. 27,463, 8-15-72, Cl. 339-59.
Skinner, M. B., Co.: *See*—
Nielsen, Anker J., Jr. Re. 27,431.
Skoggard, Bruno B., and W. C. Post, to American Cyanamid Co. Apparatus for forming tubular reinforced plastic members. Re. 27,355, 5-9-72, Cl. 156-432.
Slavin, Michael.: *See*—
Granger, Cyrus M., Slavin, Carp, and Manson. Re. 27,324.
Sloan Valve Co.: *See*—
Billeter, Henry R. Re. 27,514.
Small Business Administration.: *See*—
Elenburg, Wayland D. Re. 27,316.
Smith, Clarence J. Can opener. Re. 27,504, 10-10-72, Cl. 30-15.
Smith, Clarence J., to The Shaler Co. Studs for tires. Re. 27,266, 1-11-72, Cl. 152-210.
Smith, Dallas F.: *See*—
Cutler, Arthur S., and Smith. Re. 27,415.
Smith, Frederick A.: *See*—
Johnson, Bryan K., and Smith. Re. 27,497.
Smith, Millard F. Floating booms. Re. 27,452, 8-1-72, Cl. 61-1.
Smoke-Ban Mfg. Inc.: *See*—
Turpin, Alexander J. Re. 27,507.
Solron, Karl, H. Rafael, and W. Stockar, to Ciba-Gelby AG. Process for after treatment of freshly colored polyamide fibers. Re. 27,333, 4-11-72, Cl. 8-165.

Solron, Karl, H. Rafael, and W. Stockar, to J. R. Gelgy A.G. Process for aftertreatment of colored polyamide fibers. Re. 27,386, 6-13-72, Cl. 8-165.
Solo Cup Co.: *See*—
Johnson, Howard W., D'Ercole, and Knize. Re. 27,297.
Somekh, George S.: *See*—
Anderson, John R., and Somekh. Re. 27,494.
Somerville, William T., and E. J. Shuster, to International Flavors & Fragrances Inc. Perfume compositions containing geranonitrile, cinnamyl nitrile or 2-nonenyl nitrile. Re. 27,332, 4-11-72, Cl. 252-522.
Somas, Istvan.: *See*—
De Cecco, Angelo L., Piccone, and Somas. Re. 27,440.
Sowman, Harold G., and J. R. Johnson, to Minnesota Mining & Mfg. Co. Method of making spherules of a crystalline nuclear fuel carbide. Re. 27,264, 1-11-72, Cl. 264-5.
Sperry Rand Corp.: *See*—
Bergman, Robert J., and Prohofsky. Re. 27,395.
Staeuble, Max.: *See*—
Weber, Kurt, Staeuble, Ulrich, and Kern. Re. 27,470.
Standard Brands Chemical Industries, Inc.: *See*—
Miller, Virle A. Re. 27,269.
Stanford Research Institute.: *See*—
Macovski, Albert. Re. 27,491.
Stanuch, Edward S.: *See*—
Reed, Thomas S., and Stanuch. Re. 27,481.
Steinhausen, Walker.: *See*—
Peisker, Horst, Jager, Steinhausen, and Boroschew. Re. 27,347.
Stern, Hansjoerg, to General Electric Co. Fluid control system. Re. 27,352, 5-9-72, Cl. 91-3.
Stockar, Walter.: *See*—
Solron, Karl, Rafael, and Stockar. Re. 27,333.
Solron, Karl, Rafael, and Stockar. Re. 27,386.
Stokes, David R.: *See*—
Jones, Hugh L., and Stokes. Re. 27,313.
Sun Shipbuilding & Dry Dock Co.: *See*—
Garland, Charles. Re. 27,372.
Sundstrand Corp.: *See*—
DeLallo, George M. Re. 27,307.
Symons, Loren G., to Rex Chainbelt Inc. Hydraulic bowl release for cone crushers. Re. 27,482, 9-19-72, Cl. 241-290.
Systron-Donner Corp.: *See*—
Bentley, Donald E., and Price. Re. 27,411.
T.N.E. Inc.: *See*—
Aselman, Edward C., Jr. Re. 27,393.
Tanabe Seivaku Co., Ltd.: *See*—
Fujii, Kichirō, Oda, Arita, Takeda, and Sakai. Re. 27,322.
Taylor, Donald F., Jr., to Otis Engineering Corp. Wells tools. Re. 27,464, 8-22-72, Cl. 166-5.
Teijin Ltd.: *See*—
Ichikawa, Yataro. Re. 27,296.
Tenneco Chemicals, Inc.: *See*—
Fischer, Alfred. Re. 27,433.
Texaco, Inc.: *See*—
Cooper, Thomas A., Coleman, Morris, and Nixon. Re. 27,476.
Tharnberger, Bobby G., and Payton. Re. 27,271.
Texas Instruments Inc.: *See*—
Cunningham, James A., and Williams. Re. 27,325.
Textron Inc.: *See*—
Anderson, Albert E., Newman, Schou, Ransom, and Gorski. Re. 27,410.
Thomas, Anthony V., to Precision Paper Tube Co. Stripper for intermittent spiral tube winder. Re. 27,500, 10-3-72, Cl. 93-80.
Thomas, Manuel A., to Deering Milliken Research Corp. Collar and cuff-like garment member and method of making it. Re. 27,474, 9-5-72, Cl. 2-143.
Thorne-Booth, George M., to Westinghouse Electric Corp. Signal system for determining the presence of a train vehicle. Re. 27,472, 9-5-72, Cl. 246-34.
Tiffany, Douglas B., to Polaroid Corp. Photographic processing apparatus. Re. 27,320, 3-28-72, Cl. 95-13.
Tillman, Cassius L., III. Pipe joint. Re. 27,389, 6-13-72, Cl. 277-171.
Tilney, Ralph B.: *See*—
Schenk, John A., and Tilney. Re. 27,522.
Tischler, Edward J., to Ecodyne Corp. Timer. Re. 27,317, 3-28-72, Cl. 74-35.
Tohoku Oki Electric Co.: *See*—
Watase, Fumio. Re. 27,428.
Torrenzano, Archie P., and R. T. Pincince, to Monsanto Co. Solvent cleaning system. Re. 27,432, 7-11-72, Cl. 134-12.
Toyota Automatic Loom Works, Ltd.: *See*—
Isomura, Kiyosige. Re. 27,499.
Trico Products Corp.: *See*—
Riester, William C. Re. 27,423.
Tucel Industries, Inc.: *See*—
Lewis, John C., Jr. Re. 27,455.
Turpin, Alexander J., to Smoke-Ban Mfg. Inc. Flare stack combustion tip. Re. 27,507, 10-10-72, Cl. 431-202.
USM Corp.: *See*—
Kuehn, Howard E. Re. 27,445.
Uzu, Kelzo.: *See*—
Matsui, Masanao, Yamada, Uzu, Hirata, and Wakaki. Re. 27,384.
Uelzmann, Heinz, to The General Tire & Rubber Co. Accelerated epoxy-amino resinous compositions catalyzed with SH yielding material. Re. 27,388, 6-13-72, Cl. 260-47.
Ulrich, Paul.: *See*—
Weber, Kurt, Staeuble, Ulrich, and Kern. Re. 27,470.

Union Carbide Corp.: *See*—
Anderson, John R., and Somekh. Re. 27,494.
Union Oil Co. of California.: *See*—
Olivier, Kenneth L. Re. 27,360.
United States Borax & Chemical Corp.: *See*—
Nies, Nelson P., and Hulbert. Re. 27,424.
U.S. Philips Corp.: *See*—
Vellex, Robert. Re. 27,293.
United States Steel Corp.: *See*—
Bode, Charles H., Jr. Re. 27,469.
Grange, Raymond A., and Shackelford. Re. 27,505.
Richards, John H. Re. 27,447.
Universal Filters, Inc.: *See*—
Rosaen, Nils O., B. O., and O. E. Re. 27,466.
Universal Water Corp.: *See*—
Manjiklan, Serop. Re. 27,280.
University of California, The Regents of the.: *See*—
Manjiklan, Serop, Loeb, and McCutchan. Re. 27,319.
Valenziano, Frank P., to Interpace Corp. Pipe joint. Re. 27,342, 4-25-72, Cl. 277-168.
Van der Veen, Romke, to N.V. Ingenieursbureau voor Systemen en Octroolen Spanstaal. Method and device for determining the convey concentration of dredging spoil of a suspension of dredging spoil and water. Re. 27,526, 11-28-72, Cl. 73-61.
Van der Veen, Romke, to N.V. Ingenieursbureau voor Systemen en Octroolen Spanstaal. Method and device for determining the quantity of dredging spoil to be paid. Re. 27,536, 12-26-72, Cl. 73-61 R.
Van der Veen, Romke, and J. de Koning, to N.V. Ingenieursbureau voor Systemen en Octroolen Spanstaal. Method and suction dredging installation for conveying dredging spoil. Re. 27,536, 12-26-72, Cl. 73-61 R.
Van Horn, John A.: *See*—
Rogers, Donald J., and Van Horn. Re. 27,290.
Van Winkle, Howard E.: *See*—
Fisher, Gene A., and Van Winkle. Re. 27,537.
Vellex, Robert, by U.S. Philips Corp., to U.S. Philips Corp. Semiconductor device for producing and amplifying electrical signals of very high frequency. Re. 27,293, 2-22-72, Cl. 331-107.
Vickers-Zimmer Aktiengesellschaft-Planung und Bau von Industrieanlagen.: *See*—
Schwalm, Wilhelm. Re. 27,539.
Vincent, Kenic P., and L. B. Wilder, to Pan American Petroleum Corp. Liquid percussion motor. Re. 27,434, 7-18-72, Cl. 173-73.
Volk, David. Method for measurement of the shape and curvature of a cornea. Re. 27,475, 9-5-72, Cl. 351-39.
Von Seggern, Ernest A., and H. E. Full pressure cycle engine with excess air. Re. 27,367, 5-16-72, Cl. 123-65.
Von Seggern, Henry E.: *See*—
Von Seggern, Ernest A., and H. E. Re. 27,367.
Wakaki, Shigetoshi.: *See*—
Matsui, Masanao, Yamada, Uzu, Hirata, and Wakaki. Re. 27,384.
Walsh, Richard D., to American Machine & Foundry Co. Control mechanism for bowling pin spotting machine. Re. 27,416, 7-4-72, Cl. 273-43.
Wanderer, Herbert J., to Illinois Tool Works, Inc. Stackable insert container for axially spaced engaging surfaces. Re. 27,409, 6-27-72, Cl. 229-15.
Warner, Albert F.: *See*—
Martin, Thomas W., and Warner. Re. 27,538.
Warner-Lambert Co.: *See*—
Flowers, Theodore R. Re. 27,304.
Wasmund, John F.: *See*—
Lincoln, James D., and Wasmund. Re. 27,426.
Watase, Fumio, to Tohoku Oki Electric Co. Crystal-controlled grounded emitter oscillator. Re. 27,428, 7-11-72, Cl. 331-116.
Watson, John V., to Watson Manufacturing Co. Single flight augers. Re. 27,498, 10-3-72, Cl. 175-394.
Watson Manufacturing Co.: *See*—
Watson, John V. Re. 27,498.
Weatherford Oil Tool Co., Inc.: *See*—
Hall, Elmer D., and J. E. Jr. Re. 27,425.
Weber, Kurt, M. Staeuble, P. Ulrich, and W. Kern, to Ciba-Gelby AG. Vat dyeing with sulfonated benzoyliminodanthraquinone vat dyes or vat dyes with five fused rings. Re. 27,470, 9-5-72, Cl. 8-34.
Webster, Sidney T.: *See*—
D'Amico, John J., and Webster. Re. 27,311.
Weir, Henry J., to McGraw-Edison Co. Laundry feeding machine. Re. 27,442, 7-18-72, Cl. 38-143.
Weisberg, Sydney R. Stand-forming container and flexible bag assembly. Re. 27,345, 4-25-72, Cl. 99-171.
Welch, Elvin C. Motor with gyrating rotor. Re. 27,446, 8-1-72, Cl. 310-49.
Well Reconnaissance, Inc.: *See*—
Young, Marcus C. Re. 27,272.
Westinghouse Electric Corp.: *See*—
Brenner, William C. Re. 27,489.
Thorne-Booth, George M. Re. 27,472.
Wheatley, Carl F., Jr., to Radio Corp. of America. Television deflection system including AFC circuit with regenerative phase detector. Re. 27,492, 9-26-72, Cl. 178-69.5.
Whipperman, Ronald L.: *See*—
Shenherd, Kenneth M., and Whipperman. Re. 27,519.
Whittaker Corp.: *See*—
Lincoln, James D., and Wasmund. Re. 27,426.
Wichterle, Otto, and D. Lim, to Ceskoslovenska akademie ved. Cross-linked hydrophilic polymers and articles made therefrom. Re. 27,401, 6-20-72, Cl. 260-2.5 R.

- Wiebe, Donald, and R. B. Doorley, to William S. Hansen, d.b.a. A. Stucki Co. Combined rate of flow, pressure and temperature gage. Re. 27,354, 5-9-72, Cl. 73-198.
- Wilder, Lawrence B.: *See*—
 Vincent, Renic P., and Wilder. Re. 27,434.
- Wilks, Edward V., and A. Berger, to General Electric Co. Aryl ketone containing organosilicon materials. Re. 27,281, 2-15-72, Cl. 260-46.50 Y.
- Will, Guenther. Process for the production of porous plastics and products. Re. 27,444, 7-18-72, Cl. 260-2.5.
- Willco-Horgerate Medizinische Apparatebau G.m.b.H.: *See*—
 Hassler, Otto. Re. 27,487.
- Williams, Leonard E., and D. L. Gruller, to Cameron Iron Works, Inc. Connector for underwater pipelines. Re. 27,340, 4-25-72, Cl. 166-6.
- Williams, Robert F., Jr., and R. H. Jenks, to Eastman Kodak Co. Transparent polyolefin films of high modulus and clarity. Re. 27,404, 6-27-72, Cl. 161-165.
- Williams, Robert P.: *See*—
 Cunningham, James A., and Williams. Re. 27,325.
- Williamson, David T. N., to Molins Ltd. Manufacture of hollow articles. Re. 27,277, 1-18-72, Cl. 73-038.
- Wimmer, Robert. Plumbing fixture and method of manufacturing the same. Re. 27,430, 7-11-72, Cl. 220-64.
- Wittnebel, Bruce W.: *See*—
 Puerckhauer, Gehard W. R., Sagawa, and Wittnebel. Re. 27,375.
- Wright, William S.: *See*—
 Guinn, Jerry H., and Wright. Re. 27,459.
- Xerox Corp.: *See*—
 Jones, Hugh L., and Stokes. Re. 27,313.
- Yamada, Masahiro: *See*—
 Matsui, Masanao, Yamada, Uzu, Hirata, and Wakaki. Re. 27,384.
- Young, Marcus C., fractional part interest to Cardinal Surveys Co., and Well Reconnaissance, Inc. Method of determining direction and velocities of fluid flow into a well by means of radioactive tracer introduction into the well. Re. 27,272, 1-11-72, Cl. 250-43.5.
- Youngblood, Raymond J., Jr.: *See*—
 Platt, William G., and Jacks. Re. 27,323.
- Zaruba, Wenzel, to The Dunmore Co. Variable pitch linear actuator. Re. 27,403, 6-27-72, Cl. 74-25.
- Zimmerman, Richard F., to International Harvester Co. Multiple speed hydraulic control system. Re. 27,334, 4-11-72, Cl. 60-19.

1972 LIST OF DESIGN PATENTEEES

- A.C.B. Corp.: *See*—
 Hitchcock, Arthur A. 225,297.
- ALLSTAR Verbrauchsgüter GmbH & Co., KG (Allstar Consumer Products Co.): *See*—
 Krusche, Kurt, and Zimmerman. 223,597.
- AMF Inc.: *See*—
 Hill, Loran R. 224,254.
- Novak, Stanley M., Jr. 224,255.
- Novak, Stanley M., Jr. 225,545.
- Purdy, Frederick E. 225,484.
- Purdy, Frederick E. 225,548.
- Davidson, William G. 225,626.
- AMP Inc.: *See*—
 Hays, Kenneth S., and Werner. 224,561.
- Raynor, Terence R., and Smith. 224,507.
- Raynor, Terence R., and Smith. 225,209.
- Raynor, Terence R., and Smith. 224,881.
- A-T-O Inc.: *See*—
 Gallagher, Edward L., Llmacher, and Inlow. 225,379.
- Aarikka-Koru: *See*—
 Ruokonen, Erkki. 223,769.
- Aarthun, Alf G. Self adjusting Christmas tree holder. 223,270, 4-4-72, Cl. D35-1.
- Abbott Laboratories: *See*—
 Swartzbaugh, Peter. 224,091.
- Abbott, Murry, to Cornell Mfg. Co. Folding comb. 225,693, 12-26-72, Cl. D86-8.
- Abel, Ruth: *See*—
 Soper, Robert L., and Abel. 225,558.
- Abell, Walter L., Jr., and H. C. Hogenkamp. Combined mobile pedestal mount and housing for a coin-operated television receiver. 223,779, 6-6-72, Cl. D56-904.
- Abend, Chester J., and J. H. Frakes, Jr., to SCM Corp. Calculator. 222,896, 1-25-72, Cl. D64-11.
- Abend, Chester J., J. J. Rlenkowski, and E. V. B. Ludwick, to SCM Corp. Typewriter console. 224,493, 8-1-72, Cl. D6-181.
- Abend, Chester J., and J. H. Frakes, Jr., to SCM Corp. Calculating machine. 224,570, 8-1-72, Cl. D64-11.
- Abusa, Zachary P., and S. W. Morgenstern. Vase. 224,413, 7-25-72, Cl. D29-28.
- Accurist S.A.: *See*—
 Musy, Raymond. 224,181.
- Achushnet Co.: *See*—
 Viera, Anthony A., Woolley, and Jepsen. 225,128.
- Acme General Corp.: *See*—
 Glandomenico, Nicholas. 225,393.
- Glandomenico, Nicholas. 225,394.
- Acme Highway Products Corp.: *See*—
 Berchou, William J., and Bryan. 223,750.
- Acoustics Development Corp.: *See*—
 Hughes, Richard J., and Steinbach. 223,706.
- Acra-Plant, Inc.: *See*—
 Williams, Donald E. 224,745.
- Acree, Julian J. Refuse can stand. 224,144, 7-4-72, Cl. D49-30.
- Acrodyne, Inc.: *See*—
 Levow, Lawrence, and Yurdin. 222,883.
- Acton, Hugh C., to The Vecta Group, Inc. Seat base. 224,876, 10-3-72, Cl. D6-196.
- Acton, Hugh C., to The Vecta Group, Inc. Magazine tree. 225,141, 11-21-72, Cl. D6-20.
- Adams, Bob R. Telephone shelf. 224,395, 7-25-72, Cl. D13-1.
- Adams, Clyde L. Pendant. 225,368, 12-5-72, Cl. D45-10.
- Adams, Franklin E. Quiver. 223,353, 4-11-72, Cl. D22-13.
- Adams, George, and J. Hawkins, to United Research Laboratory. Tape deck. 223,254, 4-4-72, Cl. D26-14.
- Adams, John K., to Ransburg Electro-Coating Corp. Console cabinet for housing electrical and pneumatic controls for coating apparatus. 225,333, 12-5-72, Cl. D26-5.
- Adams, Wilbur H. Three dimensional puzzle. 224,251, 7-11-72, Cl. D34-15.
- Addy, James D.: *See*—
 Esquina, Joseph R., and Addy. 224,269.
- Adee, Raymond A., D. P. Brooks, and J. D. Anderson, to Heston Corp. Hay loading and stacking implement. 224,032, 6-27-72, Cl. D40-1.
- Aderman, Wayne L., and C. B. Kneale, so International Business Machines Corp. Document reader. 225,284, 11-28-72, Cl. D26-5.
- Aderman, Wayne L., to International Business Machines Corp. Document reader-punch. 225,332, 12-5-72, Cl. D26-5.
- Adelson, Alexander M., to Wild Rover Corp. Electrical switch housing. 223,924, 6-20-72, Cl. D26-13.
- Adickes, Cecil F.: *See*—
 Bruce, Roger K., Marhold, and Adickes. 225,619.
- Adkinson, Joseph E. Dresser. 222,864, 1-18-72, Cl. D33-6.
- Adkinson, Joseph E. Chest of drawers or the like. 223,203, 3-28-72, Cl. D33-6.
- Adkinson, Joseph E. Dresser or the like. 223,204, 3-28-72, Cl. D33-6.
- Adkinson, Joseph E. Dresser or the like. 223,205, 3-28-72, Cl. D33-6.
- Adkinson, Joseph E. Dresser or the like. 223,206, 3-28-72, Cl. D33-6.
- Adkinson, Joseph E. Dresser or the like. 223,207, 3-28-72, Cl. D55-6.
- Adkinson, Joseph E. Breakfront or the like. 223,208, 3-28-72, Cl. D33-13.
- Adkinson, Joseph E. Breakfront or the like. 223,209, 3-28-72, Cl. D33-13.
- Adkinson, Joseph E. Dresser. 224,488, 8-1-72, Cl. D6-146.
- Adkinson, Joseph E. Dresser. 224,491, 8-1-72, Cl. D6-164.
- Adkinson, Joseph E. Dresser or the like. 224,925, 10-17-72, Cl. D6-160.
- Adkinson, Joseph E. Breakfront armoire or the like. 224,926, 10-17-72, Cl. D6-169.
- Adkinson, Joseph E. Dresser or the like. 225,138, 11-14-72, Cl. D6-164.
- Adler, James S., and J. T. Dolby, to Standard Oil Co. Tumbler. 223,678, 5-23-72, Cl. D36-8.
- Adlerwerke vormals Heinrich Kleyer A.G.: *See*—
 Dietrich, Gerhard, and Mamet. 225,462.
- Adomaitis, Domas, and H. M. Turner, to Continental Can Co., Inc. Bottle or similar article. 222,851, 1-18-72, Cl. D8-111.
- Adra, Tarek B., to Harvey Hubbell Inc. Heavy duty floodlight. 224,038, 6-27-72, Cl. D48-20.
- Advance Metal Products, Inc.: *See*—
 Kalendar, Herbert. 224,115.
- Advance Transformer Co.: *See*—
 Freegard, Ernest M. 223,483.
- Aeropro Enterprises, Inc.: *See*—
 Richardson, Benjamin F. 225,422.
- Affiliated Hospital Products, Inc.: *See*—
 Einstein, Alfred C., Wolff, and Moran. 225,240.
- Agrati, Eugenio, and E. Sala. Combined motion picture projector and cover therefor. 223,408, 4-11-72, Cl. D61-1.
- Ahlstrom, Tom E. T., and H. O. G. Ehrlich. Chair. 225,198, 11-28-72, Cl. D6-78.
- Ahrens, Claude W. Playground slide apparatus. 223,460, 4-18-72, Cl. D34-5.
- Ahrens, Claude W. Foldable stadium seat. 225,494, 12-19-72, Cl. D6-41.
- Air Filters, Inc.: *See*—
 Howard, Sol, and Schaaf. 223,173.
- Ajax Hardware Mfg. Corp.: *See*—
 Miller, George F., and Tintary. 223,433.
- Akahori, Hiroshi: *See*—
 Nishino, Seichi, Kato, and Akahori. 223,669.
- Akers, Robert M., assignor of a fractional part interest to Thomas Pickering. Moveable signal light for store sales. 223,783, 6-6-72, Cl. D72-1.
- Akola, Henry S. Bookcase. 225,201, 11-28-72, Cl. D6-186.
- Aktiebolaget Electrolux: *See*—
 Lindstrom, Karl H. 223,773.
- Alaska, St. Barth. Combined adhesive magnetic-electric tape, ruler and acoustic coupling. 224,910, 10-10-72, Cl. D26-14.
- Albright, Calvin J. Jr. Gun butt plate. 225,007, 10-31-72, Cl. D22-7.
- Aldape, John. Garbage can holder. 223,682, 5-28-72, Cl. D49-939.
- Aldehman, Philip. Block for planter and wall constructions. 223,585, 5-9-72, Cl. D35-1.
- Alexander, William C., and F. R. Nebiker, to Goodyear Aerospace Corp. Aerodynamic decelerator. 225,464, 12-12-72, Cl. D71-1.
- Alinder, Gilbert L.: *See*—
 Anderson, Lloyd E., and Alinder. 224,693.
- All-American Mfg. Inc.: *See*—
 Ray, Donald G. 222,793.
- All Tech Industries, Inc.: *See*—
 Milu, Ernest. 223,539.
- Alleman, Benjamin D., to Neptune Winch Corp. Multiple winch. 225,357, 12-5-72, Cl. D41-1.
- Allen, C. Andrew, to S. A. Allen, Inc. Solenoid controlled valve. 223,095, 3-7-72, Cl. D23-19.
- Allen, Davis B., to The General Fireproofing Co. Desk. 223,371, 4-11-72, Cl. D33-7.
- Allen, Davis B., to The General Fireproofing Co. Desk. 223,372, 4-11-72, Cl. D33-7.
- Allen, S. A., Inc.: *See*—
 Allen, C. Andrew. 223,095.
- Allied Chemical Corp.: *See*—
 Mont, Howard L., and Woznicki. 223,515.
- Allred, Arthur L. Combined coin and bill receptacle. 223,182, 8-14-72, Cl. D87-3.
- Alpa Corp.: *See*—
 Minas, Harold Y. 223,349.

Alpern, Marvin, to Sterling Drug Inc. Combined bottle and dispensing pump therefor. 224,882, 10-3-72, Cl. D9-67.
 Alston, Leroy, Rocking and spinning hobbyhorse. 222,915, 2-1-72, Cl. D34-15.
 Alter, Hobart L., to Coast Catamaran Corp. Catamaran sailboat. 224,606, 8-8-72, Cl. D71-1.
 Altieri, Anna, Coffee pot. 225,366, 12-5-72, Cl. D44-26.
 Altobello, Emil A. Grated vault cover. 225,459, 12-12-72, Cl. D60-2.
 Altobello, Emil A. Vault cover grating. 225,460, 12-12-72, Cl. D60-2.
 Amberg, Ralph G., to Owens-Illinois, Inc. Jar. 224,515, 8-1-72, Cl. D9-140.
 Amberg, Ralph G., to Owens-Illinois, Inc. Jar. 224,516, 8-1-72, Cl. D9-140.
 Amberg, Ralph G., to Owens-Illinois, Inc. Jar. 224,517, 8-1-72, Cl. D9-154.
 Amberg, Ralph G., to Owens-Illinois, Inc. Plastic jar. 224,829, 9-26-72, Cl. D9-154.
 Ambrose, Paul E., to Pantasote Co. Rubber glove. 223,330, 4-11-72, Cl. D2-374.
 Ament, Myron J., to Wallace-Murray Corp. Bathroom toilet unit. 223,916, 6-20-72, Cl. D23-49.
 Ament, Myron J., to Wallace-Murray Corp. Bathroom lavatory unit. 223,917, 6-20-72, Cl. D23-49.
 Amerace Esna Corp.: See—
 Heenan, Sidney A. 224,986.
 American Can Co.: See—
 Batchelar, Raymond L., and Heinle. 223,388.
 Cenns, Michael A. 225,268.
 Dennerlein, William H., and Wark. 224,804.
 Kinkel, Christian F., and Pillnik. 224,209.
 American Cyanamid Co.: See—
 Openheimer, Robert. 224,457.
 American Data Systems, Inc.: See—
 Galang, Gerald J., Rlenhardt, and Weaver. 224,740.
 American Greetings Corp.: See—
 Sandwich, William. 223,413.
 American Home Products Corp.: See—
 Cleeland, Raymond T. 225,178.
 Cleeland, Raymond T. 225,434.
 Weeber, Marlon. 224,937.
 Weeber, Marlon. 224,938.
 Weeber, Marlon. 224,939.
 Weeber, Marlon. 224,940.
 American Hospital Supply Corp.: See—
 John, Raymond. 223,978.
 Olsen, Robert A. 223,489.
 American Optical Corp.: See—
 Schauweker, George H. 223,983.
 Shindler, Anthony. 223,123.
 American Playground Device Co.: See—
 Henning, Steven A., and Miller. 223,848.
 Henning, Steven A., and Miller. 225,072.
 Henning, Steven A., and Miller. 225,073.
 Henning, Steven A., and Miller. 225,344.
 American Play-World, Inc.: See—
 Johnson, Roland W. 223,674.
 American Seating Co.: See—
 Barecki, Chester J. 225,193.
 Barecki, Chester J., Sundberg, and Ferar. 222,025.
 American Science and Engineering, Inc.: See—
 Orfei, John. 224,446.
 American Standard Inc.: See—
 Kira, Alexander, and Scheuring. 222,965.
 Niemann, James E. 223,913.
 Owings, Joseph W. 223,155.
 Young, Raymond W. 223,195.
 Young, Raymond W. 223,576.
 American Sterilizer Co.: See—
 Brendgord, Thomas. 225,403.
 American Technical Industries, Inc.: See—
 Gelardi, Joseph T. 223,497.
 Gelardi, Joseph T. 224,598.
 American Telecommunications Corp.: See—
 Perkins, George. 224,911.
 Amerock Corp.: See—
 Lambert, Martin R. 223,746.
 Tegner, Raymond U. H. 224,767.
 Tegner, Raymond U. H. 224,770.
 Tegner, Raymond U. H. 224,771.
 Tegner, Raymond U. H. 224,776.
 Tegner, Raymond U. H. 225,302.
 Tegner, Raymond U. H. 225,303.
 Tegner, Raymond U. H. 225,304.
 Tegner, Raymond U. H. 225,305.
 Ametek, Inc.: See—
 Waite, Ralph D. 225,268.
 Zuck, Earl D. 224,806.
 Amie, Frank P., Jr. Building or similar article. 224,522, 8-1-72, Cl. D13-1.
 Ammons, Jimmy W. Camper. 224,098, 7-4-72, Cl. D14-3.
 Ampex Corp.: See—
 Lauer, Darrel A. 223,928.
 Larson, Orville W. 223,366.
 Larson, Orville W. 223,410.
 Larson, Orville W. 224,316.
 Leman, Donald E. 224,315.
 Martin, Albert W. 223,363.
 Matsuda, Hari K. 223,930.
 Matsuda, Hari K. 223,931.
 Matsuda, Hari K. 224,313.
 Anacletio, Carl R.: See—
 Anacletio, Charles and C. R. 223,448.
 Anacletio, Charles and C. R. Fishing sinker lifter. 223,448, 4-18-72, Cl. D22-30.
 Anaconda Aluminum Co.: See—
 Kumiansky, Raymond L. 223,902.
 Anchel, Jonas H., to Sparkomatic Corp. Multiple stereo speaker unit for automotive use. 223,161, 3-21-72, Cl. D26-14.
 Anchor Hocking Corp.: See—
 Benes, Frank J. 224,798.
 Oglesbee, Richard K. 223,809.
 Pettengill, Floyd E. 224,777.
 Schaefer, Howard A. 224,040.
 Schaefer, Howard A. 225,371.
 Schaefer, Howard A. 225,450.
 Thrush, James L. 224,797.
 Anderson Bros. Mfg. Co.: See—
 Jacobson, William P. 223,232.
 Anderson, Eldon L., Jr., to General Electric Co. Luminaire. 223,394, 4-11-72, Cl. D48-31.
 Anderson, Eldon L., Jr., to General Electric Co. Luminaire. 225,125, 11-14-72, Cl. D48-23.
 Anderson, Eldon L., Jr., to General Electric Co. Floodlight. 225,447, 12-12-72, Cl. D48-20.
 Anderson, Gail A., to Minnesota Mining and Mfg. Co. Electrical wire connector. 223,611, 5-16-72, Cl. D26-1.
 Anderson, Harold C., to Litton Systems, Inc. Microwave testing meter. 223,359, 4-11-72, Cl. D26-1.
 Anderson, John D.: See—
 Ade, Raymond A., Brooks, and Anderson. 224,032.
 Anderson, John P. Baby bath. 224,306, 7-18-72, Cl. D23-52.
 Anderson, Lloyd E., and G. L. Allender. Carpet measuring gauge. 224,693, 8-29-72, Cl. D52-6.
 Anderson, Robert I., and P. E. Crossman, to The Brunswick Corp. Golf game console. 224,423, 7-25-72, Cl. D34-5.
 Anderson Safeway Guard Rail Corp.: See—
 Jones, Clifford E. 225,488.
 Jones, Clifford E. 225,593.
 Anderson, Walter C., to General Electric Co. Clock or similar article. 223,623, 5-16-72, Cl. D42-7.
 Andorra Nurseries, Inc.: See—
 Kravitz, Harry. 224,827.
 Andre, Dan M., to Universal Lamp Co., Inc. High intensity lamp. 223,282, 4-4-72, Cl. D48-20.
 Andraeg, Joseph R., and G. Zenuch, to Weston Instruments, Inc. Multimeter. 223,196, 3-28-72, Cl. D26-1.
 Andres, William A., L. F. Becker, and L. D. Quandrud, to Washington Scientific Industries, Inc. Rear projection viewer. 223,126, 3-14-72, Cl. D61-1.
 Andres, William A., L. F. Becker, and L. D. Quandrud, to Washington Scientific Industries, Inc. Rear projection viewer. 223,127, 3-14-72, Cl. D61-1.
 Angibaud, Rene M., to Societe les Piles Wonder. Electric lamp casing. 225,673, 12-26-72, Cl. D48-24.
 Annichini, Luciano. Table lamp. 224,139, 7-4-72, Cl. D48-20.
 Annis, Sidney. Garment bag. 225,470, 12-12-72, Cl. D87-1.
 Annis, Sidney. Garment bag. 225,480, 12-12-72, Cl. D87-1.
 Annis, Sidney. Garment bag. 225,481, 12-12-72, Cl. D87-1.
 Anthony, Benjamin G., to Promotions International, Inc. Milk carton holder. 225,435, 12-12-72, Cl. D44-21.
 Anti, Robert E. Game board. 223,768, 6-6-72, Cl. D34-5.
 Antoni, Patricia A., to Ekco Products, Inc. Tray. 225,364, 12-5-72, Cl. D44-10.
 Anzal, Shiro, M. Murata, T. Nishikawa, and T. Hanakata, to Canon Kabushiki Kaisha. Calculator. 223,865, 6-13-72, Cl. D64-11.
 Anzal, Shiro, M. Murata, T. Nishikawa, and T. Hanakata, to Canon Kabushiki Kaisha. Calculator tape cartridge. 224,116, 7-4-72, Cl. D26-14.
 Apicella, Andrew. Bottle cap. 224,210, 7-11-72, Cl. D9-284.
 Appel, Mel.: See—
 Schmur, Martin, and Appel. 223,688.
 Apple, Charles N., Jr., to Metafab Industries, Inc. Table. 225,501, 12-19-72, Cl. D6-146.
 Applied Power Industries, Inc.: See—
 Houston, Robert W. 224,916.
 Aratani, Norio.: See—
 Miyachi, Einosuke, and Aratani. 223,790.
 Archibald, Emanuel R. Electrician's combined wire holder and heat absorber, or similar article. 223,227, 4-4-72, Cl. D8-71.
 Arent, Milan. Display cabinet for eyeglass frames or the like. 224,489, 8-1-72, Cl. D6-168.
 Argo Industries Corp.: See—
 Gottlieb, Robert. 223,383.
 Ar-Ka-Mo Sporting Goods, Inc.: See—
 Tremel, Raymond F., and Christian. 224,122.
 Arneberg, Don J.: See—
 Gribbie, Joseph J., Arneberg, and Scott. 223,452.
 Arnold, Floyd L., J. Brude, P. A. Celli, and J. R. Patmore, to Electronic Associates, Inc. Teaching machine. 225,232, 11-28-72, Cl. D25-1.
 Arnold, Frank, Jr. Garbage can holder. 224,927, 10-17-72, Cl. D8-234.
 Arnoldy, Henry C., and W. C. Stanko. Tonneau cover for dune buggies. 223,754, 6-6-72, Cl. D14-27.
 Arnone, Michael P.: See—
 Ensek, Richard K., and Arnone. 223,870.
 Arnone, Michael P., to Kreislser Mfg. Corp. Clip for writing instrument. 225,690, 12-26-72, Cl. D74-17.

Arrowhead Enterprises, Inc.: See—
 Kahl, William G., Jr. 224,629.
 Artz, Richard M. Lens cluster unit for photo printing. 223,593, 5-9-72, Cl. D61-1.
 Arvin Industries, Inc.: See—
 Bransky, Jeffrey D. 223,885.
 Asahi Engineering Co., Ltd.: See—
 Matsumoto, Rikio. 224,087.
 Asahi Kogaku Kogyo Kubushiki Kaisha: See—
 Goto, Kazuo. 223,513.
 Goto, Kazuo. 224,164.
 Kanno, Kyusai. 224,941.
 Kanno, Kyusai. 225,034.
 Ashby, Bruce.: See—
 Lovejoy, Robert B., Ashby, Bosley, and Douglas. 224,253.
 Ashby, Frederick R., and D. F. Duebs, to U.S. Plywood-Champion Papers Inc. Wall paneling. 222,856, 1-18-72, Cl. D13-1.
 Ashby, Frederick R., and L. A. Ropella, to U.S. Plywood-Champion Papers, Inc. Door-transom assembly. 223,909, 6-20-72, Cl. D13-1.
 Ashlash Corp.: See—
 Chan, Mingkong. 224,556.
 Ashton, Harold P.: See—
 Swett, James B., and Ashton. 224,553.
 Swett, James B., and Ashton. 224,662.
 Ashton, Harold P., and J. B. Swett, to Dart Industries, Inc. Combined food grater and bowl. 224,674, 8-22-72, Cl. D89-1.
 Ashton, Harold P., and J. B. Swett, to Dart Industries, Inc. Bowl. 225,170, 11-21-72, Cl. D44-15.
 Ashton, Harold P., and J. B. Swett, to Dart Industries, Inc. Grater. 225,286, 11-28-72, Cl. D89-1.
 Aspro, Nicholas Ltd.: See—
 File, Harold T. 223,759.
 Associated Mills, Inc.: See—
 Grube, Clifford E. 223,856.
 Grube, Clifford E., and Stern. 223,976.
 Hilger, Ronald O. 223,876.
 Atlanta Stove Works, Inc.: See—
 Wilkinson, Juddins E., and Smith. 223,042.
 Atlas Rand Corp.: See—
 Emmerling, Roland A. 223,411.
 Audesse, Emery G., J. J. Vetere, and A. E. Westlund, Jr., to GTE Sylvania Inc. Portable light. 225,565, 12-19-72, Cl. D48-24.
 Audtore, Grace. Tailoring gauge. 222,811, 1-4-72, Cl. D52-6.
 Augustine James J. Game board. 224,327, 7-18-72, Cl. D34-5.
 Aurele Marois Inc.: See—
 Marois, Leonard. 224,426.
 Austin, Lee C., to R. B. Austin & Son. Rigid removable, protective cover for a gymnasium vaulting horse with pommels. 223,378, 4-11-72, Cl. D84-5.
 Austin, R. E., and Son.: See—
 Austin, Lee C. 223,378.
 Automatic Electric Laboratories, Inc.: See—
 Janda, George M. 224,409.
 Automatic Helium Balloon Systems, Inc.: See—
 Elson, Edward E., Lane, and Karlin. 223,475.
 Automobiles Peugeot.: See—
 Tixier, Michel. 224,283.
 Autopoint Co., The.: See—
 Sherman, William S. 223,305.
 Avedon, Burt S., and R. A. Hussey, to The Gillette Co. Combined bottle and cap therefor. 222,960, 2-15-72, Cl. D9-168.
 Averitt, Marnie C.: See—
 Wyman, Dennis G., and Averitt. 225,420.
 Averitt, Marnie C., to Desa Industries, Inc. Chain saw. 223,600, 5-16-72, Cl. D8-65.
 Avery Products Corp.: See—
 Van Arnam, Donald E. 224,453.
 Award International, Inc.: See—
 Tytel, Bernard. 224,241.
 Awelda, Jesse I.: See—
 Kavanagh, Thomas S., Ralston, Campbell, Awelda, and Thurmer. 223,922.
 Axelrod, Barry, to Laurel Line Products. Clothes display rack. 225,283, 11-28-72, Cl. D80-8.
 Azar, Mitchell C., to Cambridge Coffee, Tea and Spice House, Inc. Store front. 224,000, 6-27-72, Cl. D13-1.
 Babcock, William F.: See—
 Brown, George Z., and Babcock. 223,915.
 Babcoletter Proprietary Ltd.: See—
 Goldstein, Gerald. 223,263.
 Bacevius, Joseph G., to Paul G. Garrity. Flashlight. 225,263, 11-28-72, Cl. D48-24.
 Bach, Walter H. Motion picture camera housing. 224,162, 7-4-72, Cl. D61-1.
 Bacon, Duane W., Jr. Hanger for supporting a balanced article. 225,347, 12-5-72, Cl. D34-15.
 Badalich, Frank C., to Bell & Howell Co. Audio-visual cartridge for a stripfilm projector. 223,639, 5-16-72, Cl. D61-1.
 Baeza, Armando M.: See—
 Bass, Sidney, Baeza, and Christopher. 224,240.
 Bass, Sidney, Baeza, Christopher, and Kuchta. 224,249.
 Bagguley, Richard B.: See—
 Mascia, Carmen T., and Bagguley. 224,291.
 Mascia, Carmen T., and Bagguley. 224,382.
 Mascia, Carmen T., and Bagguley. 224,383.
 Mascia, Carmen T., and Bagguley. 224,640-5.
 Bagn, Bjorn, to Emhart Corp. Bottle. 225,616, 12-26-72, Cl. D9-12.
 Bailer, Martha L. H. Ski doll. 224,121, 7-4-72, Cl. D34-4.
 Bailey, William, (Birmingham) Ltd.: See—
 Carter, John M. M. 223,200.
 Baird, Raymond C., Jr.: See—
 Nelson, John H., and Baird. 225,320.
 Baker, Noel J., to Witton-James Ltd. Adhesive tab for rolls of sheet material. 225,278, 11-28-72, Cl. D59-2.
 Balbach, Sara L., and B. W. Greger, to Corning Glass Works. Jar or similar article. 225,309, 12-5-72, Cl. D8-164.
 Baldwin, D. H., Co.: See—
 Barket, Dennis, and White. 225,374.
 White, Winsor D., Jr. 225,373.
 Baldwin, Gary L., to SBI Inc. Vending stand. 224,215, 7-11-72, Cl. D13-1.
 Ball, Douglas C., to Massey-Ferguson Industries Ltd. File cart with tambour covers. 222,866, 1-18-72, Cl. D33-19.
 Ball, Douglas C., to Massey-Ferguson Industries Ltd. Desk. 223,582, 5-9-72, Cl. D33-7.
 Ball, Douglas C., to Massey-Ferguson Industries Ltd. Table. 224,636, 8-22-72, Cl. D6-177.
 Ball, Douglas C., to Massey-Ferguson Industries, Ltd. Side extension unit for a desk. 224,637, 8-22-72, Cl. D6-199.
 Bally, Alexander.: See—
 Schubert, Ralph E., and Bally. 222,977.
 Baltimore Brushes, Inc.: See—
 Vines, Ellsworth. 223,864.
 Bamberger, Michael W. Combined head and foot gear carrying case. 225,482, 12-12-72, Cl. D87-5.
 Bandoaki, Stanley J., Jr.: See—
 Flynn, Daniel M., Bandoaki, and Clow. 224,228.
 Flynn, Daniel M., Bandoaki, and Clow. 224,232.
 Flynn, Daniel M., Bandoaki, and Clow. 225,531.
 Flynn, Daniel M., Bandoaki, and Clow. 225,532.
 Bangor Punta Operations, Inc.: See—
 Kostanek, Andrew T. 224,985.
 Bankert, Dean W., and D. L. Wilson, to Hadco Products, Inc. Lighting fixture. 225,676, 12-26-72, Cl. D48-31.
 Banks, George, and M. Iannone, to The Narda Microwave Corp. Metering instrument. 223,293, 4-4-72, Cl. D52-6.
 Baranowski, Frank, Jr. Pressure regulator. 224,106, 7-4-72, Cl. D23-21.
 Baranowski, Frank, Jr. Combined tank, pressure regulator and torch. 224,505, 8-1-72, Cl. D8-30.
 Barczak, Edward.: See—
 Chilton, Frederick R., Barczak, and Merendino. 224,444.
 Merendino, Salvatore, Barczak, and Lambach. 224,270.
 Hardahl Mfg. Corp.: See—
 Marchetti, Giovanni. 225,101.
 Bardeau, William M. Combined coffee maker and warmer. 225,592, 12-19-72, Cl. D94-3.
 Barecki, Chester J., to American Seating Co. Airplane seat. 225,193, 11-28-72, Cl. D6-48.
 Barecki, Chester J., C. W. Sundberg, and M. Ferar, to American Seating Co. Chair. 223,025, 2-29-72, Cl. D15-8.
 Barefoot, Boyd E. Container cover for a combustion engine vapor injector. 225,308, 12-5-72, Cl. D8-254.
 Barket, Dennis, and W. D. White, Jr., to D. H. Baldwin Co. Plano. 225,374, 12-5-72, Cl. D58-9.
 Barkley, William. Submersible sea room. 224,001, 6-27-72, Cl. D13-1.
 Barlow, Gordon A., to Marvin Glass & Associates. Game board. 223,377, 4-11-72, Cl. D34-5.
 Barnett, Stanley. Inflating pump or similar article. 225,329, 12-5-72, Cl. D23-14.
 Barr, E. Wallace, Jr. Restaurant building. 224,906, 10-10-72, Cl. D13-1.
 Barrash, Marshall J., to The Coca-Cola Co. Bottle. 224,514, 8-1-72, Cl. D9-100.
 Barrault, Jean-Louis, to Le Trappeur Sillans. Ski-shoe. 223,791, 6-13-72, Cl. D2-276.
 Barrault, Jean-Louis, to Compagnie Industrielle des Telecommunications. Intercommunications set. 225,648, 12-26-72, Cl. D26-14.
 Barrow, Harold A. Gun holster. 224,010, 6-27-72, Cl. D22-13.
 Bart, Philip D. Drinking straw. 225,486, 12-12-72, Cl. D94-3.
 Bartlett, Eric C., to Dunlop Holdings Ltd. Tire. 223,888, 6-13-72, Cl. D90-20.
 Bartoo, George O.: See—
 Spengler, Duane E., Bartoo, and Smith. 225,166.
 Bass, Sidney, A. M. Baeza, and J. H. Christopher, to Mattel, Inc. Figure toy or the like. 224,240, 7-11-72, Cl. D34-4.
 Bass, Sidney, A. M. Baeza, J. H. Christopher, and F. J. Kuchta, to Mattel, Inc. Freely rolling support for figure toy or the like. 224,249, 7-11-72, Cl. D34-15.
 Basterra, Ignacio A. Fork or similar article of flatware. 224,343, 7-18-72, Cl. D54-12.
 Basterra, Ignacio A. Fork or similar article of flatware. 224,344, 7-18-72, Cl. D54-12.
 Batchelar, Raymond L., and C. W. Heinle, to American Can Co. Container end. 223,388, 4-11-72, Cl. D9-255.
 Bates, Dana E., to Simpson Timber Co. Core for paper rolls. 223,894, 6-20-72, Cl. D8-220.
 Bates, Richard E., to Wilson Sporting Goods Co. Baseball mitt. 225,044, 11-7-72, D2-361.
 Bauer, Douglas M., and M. S. Mazzetti, to Meditech Energy and Environmental Corp. Electronic clinical thermometer. 224,048, 6-27-72, Cl. D52-7.

Bauer, James J., to Clark Equipment Co. Self-propelled loader vehicle. 224,588, 8-8-72, Cl. D14-3.
 Bauer, Robert C.: See—
 Kamrath, Richard H., Harrison, and Bauer. 222,855.
 Baugh, Benjamin C., to The Coleman Co., Inc. Catalytic heater. 225,640, 12-26-72, Cl. D23-122.
 Baugh, Benjamin C., to The Coleman Co., Inc. Combined catalytic heater and protective cover therefor. 225,641, 12-26-72, Cl. D23-123.
 Baugh, Benjamin C., and R. R. Delnes, to Nationwide Trailer Rental System Inc. Asportable trailer. 224,398, 7-25-72, Cl. D14-3.
 Baughan, Dorothy J., to Woodrow W. Baughan and Anthony V. Sorci. Trophy or similar article. 225,415, 12-12-72, Cl. D28-28.
 Baughman, Karl T., to Sears Roebuck and Co. Binocular. 224,568, 8-1-72, Cl. D57-1.
 Baughman-Oster, Inc.: See—
 Waters, Charles H. 224,520.
 Baughan, Woodrow W.: See—
 Baughan, Dorothy J. 225,415.
 Baum, Ronald, and A. J. Calabrese, to Smith, Kline, & French Laboratories. Culture device. 225,528, 12-19-72, Cl. D16-1.
 Baumanis, Bruno, to Molex Inc. Electrical connector. 225,065, 11-7-72, Cl. D26-1.
 Baxter Laboratories, Inc.: See—
 Huggins, James A. 224,604.
 Johnson, Stanley R., and Stewart. 225,525.
 Bay West Paper Co.: See—
 Engel, John B. 224,439.
 Bayly, Peter K., to Wiltshire Cutlery Co. Proprietary Ltd. Scabbard for a knife. 225,559, 12-19-72, Cl. D44-29.
 Baynes, William R.: See—
 Hock, Donald D., Feigenbaum, Korte, and Baynes. 224,243.
 Bazz, Jack: See—
 Lew, Wing G. 223,635.
 Beach, Barry A., to Health Thru Education, Inc. 224,422, 7-25-72, Cl. D34-5.
 Beach, Kenneth E., to Honeywell, Inc. Housing for electrical apparatus. 225,644, 12-26-72, Cl. D26-5.
 Bean, Wilford E.: See—
 Lorenz, Leo J., and Bean. 224,650.
 Lorenz, Leo J., and Bean. 224,651.
 Lorenz, Leo J., and Bean. 225,521.
 Bearinger, Wells S., to Empire Stove Co. Outdoor stove for recreation areas. 222,870, 1-18-72, Cl. D81-10.
 Beatrice Foods Co.: See—
 Kozlowski, Walter. 222,920.
 Beaudoin, Dale J., to Uniroyal, Inc. Tread for a pneumatic tire. 224,376, 7-18-72, Cl. D90-20.
 Beaudoin, Dale J., and W. K. Pope, to Uniroyal, Inc. Pneumatic tire. 223,645, 5-16-72, Cl. D90-20.
 Beaver, Ted L., to Continental Can Co., Inc. Jug or similar article. 223,806, 6-13-72, Cl. D9-40.
 Beaver, Ted L., to Continental Can Co., Inc. Jar or similar article. 223,808, 6-13-72, Cl. D9-44.
 Beaver, Ted L., to Continental Can Co., Inc. Jug or similar article. 223,995, 6-27-72, Cl. D9-41.
 Beaver, Ted L., to Continental Can Co., Inc. Bottle or similar article. 224,201, 7-11-72, Cl. D9-42.
 Bechman, William H., to Westinghouse Air Brake Co. Tractor. 224,680, 8-29-72, Cl. D14-3.
 Beck, Inc.: See—
 Beck, William A. 223,137.
 Beck, William. Font of type. 224,274, 7-11-72, Cl. D64-12.
 Beck, William A., to Beck, Inc. Shoe polisher machine. 223-137, 3-21-72, Cl. D4-37.
 Becker, James R., and H. Kesler. Bird whistle. 225,662, 12-26-72, Cl. D34-15.
 Becker, Kurt, to Hermann Heye. Bottle. 223,143, 3-21-72, Cl. D9-135.
 Becker, Kurt, to Hermann Heye. Bottle. 225,210, 11-28-72, Cl. D9-99.
 Becker, Larry F.: See—
 Andrea, William A., Becker, and Quanrud. 223,126.
 Andrea, William A., Becker, and Quanrud. 223,127.
 Beckman, Glenn B., to Corning Glass Works. Beverage server or the like. 225,365, 12-5-72, Cl. D44-21.
 Beckman Instruments, Inc.: See—
 Greene, Robert L. 225,005.
 Beckwith, Robert W. Relay cabinet. 223,365, 4-11-72, Cl. D26-13.
 Belbow, David. Combination shoe brush, polisher and dauber. 223,881, 6-13-72, Cl. D86-11.
 Bell & Howell Co.: See—
 Badalich, Frank C. 223,639.
 Bell Telephone Laboratories, Inc.: See—
 Dreyfuss, Henry, and Stokes. 223,833.
 Ericsson, James W., and Genaro. 223,815.
 Genaro, Donald M., Holmes, and Seretny. 224,416.
 Genaro, Donald M., Kelly, McGarvey, and Stokes. 224,117.
 Genaro, Donald M., McGarvey, and Rosebrock. 225,113.
 Genaro, Donald M., and Stokes. 223,005.
 Gibson, Richard D., McGarvey, and Woodard. 222,990.
 Belland, James A., E. Brown, and D. De Wuske. Carrier handle for garment hangers. 223,802, 6-13-72, Cl. D8-154.
 Bellini, Mario, to Ing. C. Olivetti & C. S.p.A. Electronic printing calculator. 225,533, 12-19-72, Cl. D26-5.
 Belz, August. Holder for paper rolls. 224,864, 10-3-72, Cl. D6-97.
 Benes, Frank J., to Anchor Hocking Corp. Tumbler or similar article. 224,798, 9-19-72, Cl. D36-8.
 Benjamin, E. Burton, to Welsh-Co. Infant's training chair. 225,224, 11-28-72, Cl. D23-53.
 Bennett, Arthur R. Adjustable ramp. 224,912, 10-10-72, Cl. D41-1.
 Bennett, Edward J., and R. M. Johnson, to Owens-Illinois, Inc. Plate or similar article. 223,210, 3-28-72, Cl. D44-15.
 Bennett, Fay M.: See—
 Phillips, Cecil E., and Bennett. 223,786.
 Bennett, William E. Passenger carrying tow kite. 224,248, 7-11-72, Cl. D34-15.
 Bennington Co., The: See—
 Lax, Oscar. 222,831.
 Lax, Oscar. 222,832.
 Lax, Oscar. 222,888.
 Benrube, Jack S., assignor to Nathan Rosen and Morris Luxenberg, fractional part interest to each. Pants. 223,077, 3-7-72, Cl. D2-227.
 Benshoof, Robert E., to CBF Systems, Inc. Mobile fire detection and suppression unit. 225,220, 11-28-72, Cl. D14-3.
 Benty, John L., to Bristol-Myers Co. Heater housing for hair curlers. 223,421, 4-11-72, Cl. D86-10.
 Benty, John L., and D. Friedman, to Clairol Inc. Heater housing for hair curlers. 225,132, 11-14-72, Cl. D86-10.
 Berchert, Viola M. Protective cover for counter corners. 223-895, 6-20-72, Cl. D8-263.
 Berchou, William J., and F. F. Bryan, to Acme Highway Products Corp. Sealing element. 223,750, 6-6-72, Cl. D13-6.
 Berdine, Blake W.: See—
 Wright, Jesse F., and Berdine. 223,221.
 Berg, David E. Pipette storage rack. 223,661, 5-23-72, Cl. D16-1.
 Berg, David E. Pipette storage rack. 223,758, 6-6-72, Cl. D16-1.
 Berg Mfg. Co., The: See—
 Mastis, Victor. 224,107.
 Berger, Joachim, Game board. 225,245, 11-28-72, Cl. D34-5.
 Bergkvist, Hakan G. F. Coupling ring for drainage pipes. 224-303, 7-18-72, Cl. D23-3.
 Bergman Tool Mfg. Co., Inc.: See—
 Freedman, Alan A. 223,081.
 Bergman, Vener E. Truck. 223,023, 2-29-72, Cl. D14-3.
 Berkey/Colortran Mfg. Inc.: See—
 Hartz, George R. 224,118.
 Berlant, George, to New Hermes Engraving Corp. Alphabet for monograms or the like. 223,217, 3-28-72, Cl. D64-16.
 Berlant, George, to New Hermes Engraving Corp. Alphabet for monograms or the like. 224,756, 9-12-72, Cl. D64-16.
 Berni, Stephen H. Fork or similar article. 223,212, 3-28-72, Cl. D54-12.
 Berry, Morris J. Tote bag. 224,370, 7-18-72, Cl. D87-3.
 Bertolino, August U.: See—
 Forsty, William A., Crookston, and Bertolino. 223,671.
 Bethune, Ade, to Terra-Sancta Creations, Inc. Door knocker. 223,993, 6-27-72, Cl. D8-177.
 Bethune, Ade, to Terra-Sancta Creations, Inc. Pendant. 224,599, 8-8-72, Cl. D29-19.
 Bethune, Ade, to Terra-Sancta Creations, Inc. Pendant. 225,560, 12-19-72, Cl. 45-16.
 Bettonica, Franco, to U.S. Phillips Corp. Box for an electric shaver. 224,368, 7-18-72, Cl. D87-1.
 Beyers, Marvin E., to Caterpillar Tractor Co. Tire design for loader tire. 223,015, 2-22-72, Cl. D90-20.
 Bialo, Walter. Flight luggage bag. 225,134, 11-14-72, Cl. D87-5.
 Bibb, Belton C.: See—
 Longfield, Robert V. 223,266.
 Bibeau, Ronald J.: See—
 Gardner, Stewart E., Bibeau, and Bonfield. 225,159.
 Bienenfeld, Myron, to Magic Mold, Inc. Shirt or similar article. 224,700, 9-5-72, Cl. D2-1.
 Bienkowski, James J.: See—
 Abend, Chester J., Bienkowski, and Ludwick. 224,495.
 Bienkowski, James J., and J. T. Houlihan, to SCM Corp. Adding machine. 225,036, 10-31-72, Cl. D64-11.
 Biskoney, William F., Jr., to Buning the Florist, Inc. Building. 224,831, 9-16-72, Cl. D13-1.
 Blla Cup AB: See—
 Pearson, Karl. 225,076.
 Billos, Elvio, Sherman Car Wash Equipment Co. Oil changer. 224,043, 6-27-72, Cl. D52-2.
 Billotte, Keith W. Toy box. 225,167, 11-21-72, Cl. D34-15.
 Bingham, Harry R. Marine horn. 224,759, 9-12-72, Cl. D72-1.
 Binks, Ronald, to Global Systems Design Corp. Telephone instrument. 223,929, 6-20-72, Cl. D26-14.
 Binzer, Thomas J., C. H. Schmitt, and P. H. Woodling, to General Electric Co. Portable microwave oven or similar article. 223,641, 5-16-72, Cl. D81-4.
 Bio/Data Corp.: See—
 Rackak, Earl F. 224,102.
 Biozonics Corp.: See—
 Palsen, Richard C. J. 223,110.
 Bird, Forrest M., and H. L. Pohndorf. Portable respirator. 225,692, 12-26-72, Cl. D83-1.
 Bisch, Clifford B., E. D. Lucey, H. S. Noel, and P. A. Ronzani, to International Business Machines Corp. Disk storage file. 223,197, 3-28-72, Cl. D26-5.
 Bishop, John L., to DLM Inc. Truck dock bumper. 225,615, 12-26-72, Cl. D8-263.
 Bissell, James D., to Cabitec, Inc. Game board. 223,937, 6-20-72, Cl. D34-5.

Bixler, Kenneth D.: See—
 Reifers, Richard F., and Bixler. 223,653-9.
 Reifers, Richard F., and Bixler. 223,998.
 Reifers, Richard F., and Bixler. 224,678.
 Reifers, Richard F., and Bixler. 224,734.
 Reifers, Richard F., and Bixler. 224,965.
 Reifers, Richard F., and Bixler. 225,213.
 Reifers, Richard F., and Bixler. 225,214.
 Reifers, Richard F., and Bixler. 225,514.
 Reifers, Richard F., and Bixler. 225,515.
 Bixler, Loring C., A. M. Davis, W. S. McCormick, Jr., and E. R. Wiener, to International Business Machines Corp. Data printer keyboard console. 223,762, 6-6-72, Cl. D26-5.
 Bixler, Loring C., A. M. Davis, D. F. Lahey, W. S. McCormick, Jr., and E. R. Wiener, to International Business Machines Corp. Printer. 224,605, 8-8-72, Cl. D64-1.
 Bixler, Loring C., A. M. Davis, D. F. Lahey, W. S. McCormick, Jr., and E. R. Wiener, to International Business Machines Corp. Data processor. 224,682, 8-29-72, Cl. D26-5.
 Bixler, Loring C., M. F. Davis, and F. J. Eisenman, Jr., to International Business Machines Corp. Data processing ensemble. 225,645, 12-26-72, Cl. D26-5.
 Bjorgensen, S.A.: See—
 Burke, Maurice P. 224,867.
 Blendl, John, to Metal Cabinet Co. Fire extinguisher cabinet. 225,162, 11-21-72, Cl. D16-2.
 Bliss, George F.: See—
 Dauray, Charles H., and Bliss. 224,957.
 Dauray, Charles H., and Bliss. 224,959.
 Black and Decker Mfg. Co., The: See—
 Bunyea, Koderick F. 223,184.
 Blank, Elliott E. Bottle or similar article. 223,188, 3-28-72, Cl. D9-60.
 Blank, Elliott E., to Dow Chemical Co. Bottle or similar article. 223,702, 5-30-72, Cl. D9-66.
 Blankenship, Arthur C., to Uniroyal, Inc. Pneumatic tire. 224,180, 7-4-72, Cl. D90-20.
 Blease, Wilfred J., to Pioneer Plastics, Inc. Celery crisper or similar article. 223,384, 4-11-72, Cl. D44-1.
 Bliss, Robert L., to University of Utah. Display stand. 224,485, 8-1-72, Cl. D6-85.
 Bloch, Jack, to Foster Grant Co., Inc. Pair of spectacles. 223,511, 4-25-72, Cl. D57-1.
 Bloch, Jack, to Foster Grant Co., Inc. Pair of spectacles. 224-180, 7-4-72, Cl. D57-1.
 Bloch, Jack, to Foster Grant Co., Inc. Pair of spectacles. 224-347, 7-18-72, Cl. D57-1.
 Bloch, Jack, to Foster Grant Co., Inc. Pair of spectacles. 224-348, 7-18-72, Cl. D57-1.
 Bloch, Jack, to Foster Grant Co., Inc. Pair of spectacles. 224-349, 7-18-72, Cl. D57-1.
 Bloch, Roy W., to Ekco Products, Inc. Food packaging tray. 223,144, 3-21-72, Cl. D9-185.
 Bloch, Roy W., to Ekco Products, Inc. Packaging container for comestibles or the like. 223,145, 3-21-72, Cl. D9-189.
 Bloch, Roy W., to Ekco Products, Inc. Food packaging tray. 224,288, 7-18-72, Cl. D9-185.
 Bloch, Roy W., to Ekco Products, Inc. Packaging container for comestibles or the like. 224,289, 7-18-72, Cl. D9-187.
 Block China Corp.: See—
 Gulotta, Gerald. 225,430.
 Gulotta, Gerald. 225,431.
 Gulotta, Gerald. 225,432.
 Bloom, Bernard, to Edison Brothers Stores, Inc. Shop front. 224,524, 8-1-72, Cl. D13-1.
 Blumcraft of Pittsburgh: See—
 Horgan, William J., Jr. 223,332.
 Horgan, William J., Jr. 223,794.
 Boden, Joseph, to Boden Products, Inc. Bottle. 224,202, 7-11-72, Cl. D9-44.
 Boden Products, Inc.: See—
 Boden, Joseph. 224,202.
 Bodman, John M. O., to The Educational Supply Association Ltd. Toy balance. 225,348, 12-5-72, Cl. D34-15.
 Boehm, Kurt B., to Tectron Inc. Snowmobile hood. 223,820, 6-13-72, Cl. D14-24.
 Boehm, Kurt B., to Tectron Inc. Snowmobile hood. 223,821, 6-13-72, Cl. D14-24.
 Bogan, David B., to David B. Bogan Corp. Gear housing. 225,684, 12-26-72, Cl. D55-1.
 Bogan, David B., Corp.: See—
 Bogan, David B. 225,684.
 Boganowski, Theodore D. Ski scooter. 224,125, 7-4-72, Cl. D34-15.
 Boger, Ernest F. Hammermill. 223,778, 6-6-72, Cl. D55-1.
 Bogna, David L. Integral counter top and lavatory. 224,307, 7-18-72, Cl. D23-58.
 Bohan, Richard. Combined soap tray and toy receptacle. 223-841, 6-13-72, Cl. D33-24.
 Boldt, Melvin H., to Rowe International Inc. Phonograph. 225,085, 11-7-72, Cl. D56-4.
 Boldt, Melvin H., to G. W. Murphy Industries, Inc. Edger-trimmer. 225,295, 12-5-72, Cl. D8-8.
 Boldt, Melvin H., to G. W. Murphy Industries, Inc. Hedge trimmer. 225,296, 12-5-72, Cl. D8-8.
 Boldt, Melvin H., to G. W. Murphy Industries, Inc. Orbital sander. 225,298, 12-5-72, Cl. D8-62.
 Boldt, Melvin H., to G. W. Murphy Industries, Inc. Circular saw. 225,299, 12-5-72, Cl. D8-66.
 Boldt, Melvin H., to G. W. Murphy Industries, Inc. Hand drill. 225,300, 12-5-72, Cl. D8-68.
 Boldt, Melvin H., and D. P. Chuboff, to Zenith Radio Corp. Dual speaker housing. 223,255, 4-4-72, Cl. D26-14.

Bolen, Hugh R., Jr., Magnetic Forming Corp. Boat hook. 224,757, 9-12-72, Cl. D71-1.
 Bolen, Hugh R., Jr. Paddle. 224,983, 10-24-72, Cl. D71-1.
 Bolen, Hugh R., Jr., to Magnetic Forming Corp. Gaff. 225-399, 12-12-72, Cl. D22-22.
 Bombardier Ltd.: See—
 Delisle, Pierre A., and La Pointe. 222,859.
 Lapointe, Yves A. 222,995.
 Lapointe, Yves A. 223,709.
 Lapointe, Yves A., and Delisle. 223,414.
 Lapointe, Yves A., and MacKeen. 224,907.
 MacKeen, Anthony, and La Pointe. 222,858.
 MacKeen, Anthony, and Lapointe. 223,604.
 MacKeen, Anthony D. 224,005.
 MacKeen, Anthony D. 224,908.
 MacKeen, Anthony D., and Lapointe. 225,105.
 Bonanno, Joseph L., to Rapid Tool and Mfg. Co., Inc. Electrical tester. 223,001, 2-22-72, Cl. D26-1.
 Bongort, Edgar A.: See—
 Hawkins, Harold V., Dick, and Bongort. 222,968.
 Hawkins, Harold V., Dick, and Bongort. 222,967.
 Hawkins, Harold V., Dick, and Bongort. 223,925.
 Bonifield, Charles B.: See—
 Gardner, Stewart E., Bibeau, and Bonifield. 225,159.
 Bonner, Herbert C. Combined vehicle bumper and guard. 224,931, 10-17-72, Cl. D14-8.
 Bonzer, Lawrence W., to Lear-Siegler, Inc. Plug-in food and beverage warmer for an automobile. 224,752, 9-12-72, Cl. D44-26.
 Boone, James V. Blade for a dental instrument. 225,331, 12-5-72, Cl. D24-1.
 Borden, Inc.: See—
 Kusek, Edwin F. 223,804.
 McIlvain, Howard H. 223,810.
 Bordinat, Eugene, Jr., to Ford Motor Co. Dual purpose vehicle tire. 223,427, 4-11-72, Cl. D90-20.
 Borg-Warner Corp.: See—
 Edgar, Howard M., and Lewis. 222,997.
 Lelno, Kenneth W. 224,858.
 Saterus, Joseph F. 223,970.
 Bortzfeld, Frank E. Nightstick. 223,663, 5-23-72, Cl. D22-99.
 Borum, Otis C.: See—
 Piker, Herbert M. 223,219.
 Bosley, Denis V.: See—
 Lovejoy, Robert B., Ashby, Bosley, and Douglas. 224,253.
 Bosley, Denis V., and L. R. Wood, to Mattel, Inc. Operable stand for a model airplane or the like. 224,659, 8-22-72, Cl. D34-15.
 Bostic, Foy D.: See—
 Reddin, Bob G., and Bostic. 225,632.
 Boucher, Guy, to E.F.E. (European Fund Establishment). Spanner. 222,872, 1-25-72, Cl. D8-22.
 Boucher, Raymond, and C. Voytko, to Hedstrom Co. Velocipede frame. 224,374, 7-18-72, Cl. D90-8.
 Boudouris, Angelo, and G. T. Gray, to Eprad Inc. Combined film housing and projector base. 225,375, 12-5-72, Cl. D61-1.
 Bouthée, James A. Stroller. 224,220, 7-11-72, Cl. D14-14.
 Bousquet, Charles E. Floor care coupler. 223,945, 6-20-72, Cl. D37-3.
 Bovino, Joseph F. Panel member for storm and screen doors. 225,052, 11-7-72, Cl. D13-1.
 Bovino, Joseph F. Panel member for storm and screen doors. 225,053, 11-7-72, Cl. D13-1.
 Bowen, Thomas E., to Division of U.S. Industries, Inc. South-eastern Metals. Combined caster chair and tray for invalid. 223,823, 6-13-72, Cl. D15-1.
 Bowers, Arthur C. Altar cross or the like. 225,537, 12-19-72, Cl. D29-23.
 Box, Theodor. Carrying case for bottles or the like. 224,393, 7-25-72, Cl. D9-177.
 Boyajian, Alfred Z., to The Stanley Works. Multipurpose pliers. 223,561, 5-9-72, Cl. D8-58.
 Boyce, Elvin L., to Tape-Licator, Inc. Tape applicator. 225,577, 12-19-72, Cl. D74-1.
 Boyertown Auto Body Works: See—
 Hafer, Paul R. 224,002.
 Boyertown Burial Casket Co.: See—
 Herricht, Fred. 223,903.
 Boyle, George H. Combined ladder and platform for picking fruit. 223,348, 4-11-72, Cl. D6-99.
 Brainerd, Andrew W., K. H., and S. W. Unitary shoe-polishing device. 223,423, 4-11-72, Cl. D86-11.
 Brainerd, Andrew W., K. H., and S. W. Shoe cleaning-polishing device. 225,133, 11-14-72, Cl. D86-11.
 Brainerd, Kent H.: See—
 Brainerd, Andrew W., K. H., and S. W. 223,423.
 Brainerd, Andrew W., K. H., and S. W. 225,133.
 Brainerd, Stuart W.: See—
 Brainerd, Andrew W., K. H., and S. W. 223,423.
 Brainerd, Andrew W., K. H., and S. W. 225,133.
 Brandenburger, Nelda H. Sculpture. 225,414, 12-12-72, Cl. D29-23.
 Bransky, Jeffery D., to Arvin Industries, Inc. Illuminable make-up mirror. 223,885, 6-13-72, Cl. D86-10.
 Branson Instruments, Inc.: See—
 Farry, Frank, and Savio. 225,110.
 Brashear, Robert C. Storm window frame. 223,487, 4-25-72, Cl. D13-91.
 Brassart, Patrick P. E. Bottle. 224,905, 10-10-72, Cl. D99-40.

- Braun A.G.: *See*—
 Greubel, Jurgen. 223,975.
 Oberheim, Robert. 223,514.
 Rams, Dieter. 223,172.
 Rams, Dieter. 223,283.
 Rams, Dieter. 223,391.
 Rams, Dieter. 223,392.
 Rams, Dieter. 223,393.
 Rams, Dieter. 223,422.
 Rams, Dieter. 223,590.
 Rams, Dieter. 223,448.
 Seiffert, Florian. 223,425.
 Braun Aktiengesellschaft: *See*—
 Greubel, Jurgen. 223,251.
 Oberheim, Robert. 225,019.
 Rams, Dieter. 224,443.
 Rams, Dieter. 224,557.
 Rams, Dieter. 225,264.
 Braun, Samuel: *See*—
 Jaffe, Martin A., Northrop, and Braun. 223,652.
 Jaffe, Martin A., Northrop, and Braun. 223,692.
 Brecher, Irving. Nursery gym. 223,035, 2-29-72, Cl. D34—15.
 Breed, Charles P., E. L. Izzi, and D. E. Husby, to Westinghouse Electric Corp. Luminaire. 224,753, 9-12-72, Cl. D48—31.
 Brecka, Paul E.: *See*—
 Danti, Bernard R., and Brecka. 225,581.
 Brendgord, Thomas, to American Sterilizer Co. Surgeons scrub sink. 225,403, 12-12-72, Cl. D23—58.
 Bremshey, Manfred, to Telesco Brophy Ltd. Combined umbrella and sheath. 223,183, 3-21-72, Cl. D87—1.
 Bremshey, Manfred, to Telesco Brophy Ltd. Combined umbrella and sheath. 223,525, 4-25-72, Cl. D87—1.
 Brescia, Anthony J., to Rubbermaid Commercial Products Inc. Refuse container. 225,566, 12-19-72, Cl. D49—30.
 Bressickello, Tony J. Refrigerated show case. 225,200, 11-28-72, Cl. D6—172.
 Bressickello, Tony J. Refrigerated show case. 225,220, 11-28-72, Cl. D6—172.
 Brett, James E., to Purex Corporation, Ltd. Float for sanitizing agent dispenser. 224,311, 7-18-72, Cl. D23—150.
 Brewer, William R., to Hamilton C. de Jong. 224,384, 7-25-72, Cl. D9—70.
 Brewer, William R., to Hamilton C. de Jong, d.b.a. Safety Brothers. Support leg for elevated toilet seat. 225,226, 11-28-72, Cl. D23—71.
 Brewster, Roger M. Coin sorter. 223,292, 4-4-72, Cl. D52—4.
 Brian, William J.: *See*—
 Eves, Randal M., and Brian. 224,594.
 Bricker, Bonnie L.: *See*—
 Corbett, James C. 225,609.
 Brick, Mark A.: *See*—
 Spivey, Jefferson. 224,399.
 Brickler, Paul. Bubble forming windmill toy. 223,114, 3-14-72, Cl. D34—15.
 Bridgestone Tire Co. Ltd.: *See*—
 Takahashi, Shiro. 224,818.
 Briggs & Stratton Corp.: *See*—
 Gordon, Douglas. 224,170.
 Bristol-Myers Co.: *See*—
 Benty, John L. 223,421.
 Broadley, Eric H., to Lola Cars Ltd. Model racing car. 222,917, 2-1-72, Cl. D34—15.
 Broadley, Eric H., to Lola Cars Ltd. Model racing car. 223,351, 12-5-72, Cl. D34—15.
 Broadley, Eric H., to Lola Cars Ltd. Model racing car. 223,352, 12-5-72, Cl. D34—15.
 Broadley, Eric H., to Lola Cars Ltd. Model racing car. 223,353, 12-5-72, Cl. D34—15.
 Brodsky, David L. and E. J., to Superior Plastic Products Co. Suction catheter. 223,247, 4-4-72, Cl. D16—1.
 Brodsky, Elliott J.: *See*—
 Brodsky, David L. and E. J. 223,247.
 Brodsky, Louis, and B. Zeltzer, to E. R. Squibb & Sons, Inc. Medicament dispenser spoon. 224,260, 7-11-72, Cl. D52—1.
 Brooks, David N., and R. E. Edin, to Sylvania Electric Products Inc. Electrical heater. 225,056, 11-7-72, Cl. D23—77.
 Brooks, Dean P.: *See*—
 Ade, Raymond A., Brooks, and Anderson. 224,032.
 Brooks, Paul E. Pocket comb. 225,474, 12-12-72, Cl. D86—8.
 Brooks, Philip L., R. S. Reynolds, K. A. Penwarden, and S. H. Gajwani, to GTE Sylvania Inc. Matrix switch panel. 225,594, 12-19-72, Cl. D96—12.
 Brooks, Philip L., R. W. Davies, T. E. Lash, and S. P. Ordberg, to GTE Sylvania Inc. Digital communications terminal. 225,647, 12-26-72, Cl. D26—5.
 Brooks, Riley H. Paper towel dispenser. 223,049, 3-7-72, Cl. D52—2.
 Brooks, Riley H. Serving tray for automobile seats. 224,673, 8-22-72, Cl. D87—1.
 Brooks, Robert, to The L. P. Henryson Co., Inc. Folded umbrella. 224,990, 10-24-72, Cl. D86—3.
 Brooks, Robert N.: *See*—
 Hutchinson, Bruce R., and Brooks. 225,636.
 Brosk, Doris. Dress or like garment. 223,430, 4-18-72, Cl. D2—81.
 Brother, Karl B. Rotary chart holder. 224,775, 9-19-72, Cl. D6—20.
 Brother Kogyo Kabushiki Kaisha: *See*—
 Funato, Toshiaki, Katsuzaki, and Ito. 224,942.
 Broudy, Charles E., to Henry I. Siegel Co., Inc. Display stand. 223,178, 3-21-72, Cl. D80—9.

- Broun, Morrison J., to Otis Elevator Co. Elevator car entrance with signal fixtures in the entrance columns. 223,340, 4-11-72, Cl. D13—1.
 Brown, Eugene: *See*—
 Belland, James A., Brown, and De Wuske. 223,802.
 Brown, George Z., and W. F. Babcock, to Dover Corp. Combined dispensing nozzle and guard therefor. 223,915, 6-20-72, Cl. D23—37.
 Brown, Hesper P. Mobile storage cabinet. 222,933, 2-8-72, Cl. D14—3.
 Brown, Jack E. Covered pitcher. 225,557, 12-19-72, Cl. D44—21.
 Brown, Jane L. Puzzle or similar article. 225,425, 12-12-72, Cl. D34—15.
 Brown, Joseph D., to Polaron Products, Inc. Container for liquids. 225,511, 12-19-72, Cl. D9—175.
 Brown, William L., to Littelfuse, Inc. Fuse panel. 224,113, 7-4-72, Cl. D26—13.
 Browne, Warren G. Residential building. 225,315, 12-5-72, Cl. D13—1.
 Broynhill, Roy F. Dump body for a small truck. 223,020, 2-29-72, Cl. D14—3.
 Bruce, Roger K., W. Marhold, and C. F. Adickes, to Sterigard Corp. Dispensing valve for pressurized dispensers. 225,619, 12-26-72, Cl. D9—258.
 Brude, John: *See*—
 Arnold, Floyd L., Brude, Celli, and Patmore. 225,232.
 Brunswick Corp.: *See*—
 Anderson, Robert I., and Crossman. 224,423.
 Reineman, Richard G., and Schaefer. 224,387.
 Reineman, Richard G., and Schaefer. 224,420.
 Reineman, Richard G., and Schaefer. 224,421.
 Reineman, Richard G., and Schaefer. 225,244.
 Schaefer, George E. 224,419.
 Schaefer, George E. 225,341.
 Schaefer, George E., and Reineman. 225,340.
 Bryan, Fred F.: *See*—
 Berchou, William J., and Bryan. 223,750.
 Bryant, Helen H. Knapsack. 224,178, 7-4-72, Cl. D87—1.
 Brynmill Corp.: *See*—
 Bryne, Michael D. 223,180.
 Bryne, Michael D., to Brynmill Corp. Cryosurgical instrument. 223,180, 3-21-72, Cl. D83—12.
 Brys, Stanley. Citrus fruit rind cutter. 225,135, 11-14-72, Cl. D88—1.
 Bud Radio, Inc.: *See*—
 Miller, Leon G. 224,229.
 Miller, Leon G. 224,710.
 Buenger, Paul M.: *See*—
 Schuler, Ralf, and Witte. 224,929.
 Schuler, Ralf, and Witte. 224,930.
 Schuler, Ralf, and Witte. 224,932.
 Buhk, Randall P., to Steelcase Inc. Chair. 224,824, 9-26-72, Cl. D6—75.
 Buhren, Wilhelm, to United States Phillips Corp. Vaporizer. 225,009, 10-31-72, Cl. D23—149.
 Bullock, Edward K., E. F. Burke, J. M. Conner, M. S. Dietz, J. B. Morse, and A. R. Tilley, to Polaroid Corp. Camera flash attachment or similar article. 223,730, 5-30-72, Cl. D61—1.
 Bunch, Robert E., to Zenith Mfg. Inc., Strike for a door catch. 225,610, 12-26-72, Cl. D8—203.
 Buning the Florist, Inc.: *See*—
 Bigoney, William F. 224,831.
 Bunker Ramo Corp.: *See*—
 Mills, Thomas C. 225,682.
 Bunn-O-Matic Corp.: *See*—
 Martin, John C., and Knierly. 225,077.
 Martin, John C., and Knierly. 225,078.
 Martin, John C., and Rescho. 223,036.
 Bunyea, Roderick F., to The Black and Decker Mfg. Co. Air impact wrench. 223,134, 8-14-72, Cl. D8—68.
 Bur Kin Homes Corp.: *See*—
 King, Roger A., and Burton. 225,216.
 Burandt, Corliss O., to Thexton Mfg. Co. Connector socket. 224,109, 7-4-72, Cl. D26—1.
 Burden, James M. Container for packaged sugar. 223,586, 5-9-72, Cl. D44—15.
 Burger, Francis J., III, R. L. Stevenson, and B. J. Lehman, to Lockheed Aircraft Corp. Deck plug. 224,668, 8-22-72, Cl. D71—1.
 Burke, Edward F., Jr.: *See*—
 Bullock, Edward K., Burke, Conner, Dietz, Morse, and Tilley. 223,730.
 Burke, Edward F.: *See*—
 Flick, Francis S., and Burke. 225,342.
 Flick, Francis S., and Burke. 225,343.
 Burke, George K., and K. Raines, to Burrion Medical Products, Inc. Medical equipment tray. 225,467, 12-12-72, Cl. D83—1.
 Burke, George K., and K. Raines, to Burrion Medical Products, Inc. Medical equipment tray. 225,468, 12-12-72, Cl. D83—1.
 Burke, George K., and K. Raines, to Burrion Medical Products, Inc. Medical equipment tray. 225,467, 12-12-72, Cl. D83—1.
 Burke, George K., and K. Raines, to Burrion Medical Products, Inc. Medical equipment tray. 225,468, 12-12-72, Cl. D83—1.
 Burke, Jacob B. Pointer for a game board or similar article. 225,246, 11-28-72, Cl. D34—5.
 Burke, John W.: *See*—
 Gray, Bernard N., and Burke. 225,469.
 Burke, Maurice P., to Bjorgensen, S.A. Pedestal chair. 224,867, 10-3-72, Cl. D6—120.
 Burkett, Wilford B., A. J. Carsello, and H. I. Hazzard, to McCulloch Corp. Internal combustion engine casing. 224,811, 9-19-72, Cl. D77—1.

- Burkhalter, Robert Jr.: *See*—
 Congdon, George L., and Burkhalter. 223,522.
 Burlington Industries, Inc.: *See*—
 Logan, Ralph H. 224,194.
 Burnett, Dennis M. Dental retainer clasp. 224,970, 10-24-72, Cl. D24—1.
 Burrige, Robert E., to Litton Business Systems, Inc. Casing for a hand manipulable transducer. 224,541, 8-1-72, Cl. D26—14.
 Burris, Donald J., to Redfield, Co. Combination spotting scope, carrying case and stock therefor. 222,815, 1-4-72, Cl. D57—1.
 Burris, Donald J., and J. L. Maulbetsch, to Outdoor Sports Industries, Inc. Riflescope. 225,569, 12-19-72, Cl. D57—1.
 Burris, Donald J., and J. L. Maulbetsch, to Outdoor Sports Industries, Inc., mesne. Riflescope. 225,570, 12-19-72, Cl. D57—1.
 Burton Medical Products, Inc.: *See*—
 Burke, George K., and Raines. 225,467.
 Burke, George K., and Raines. 225,468.
 Raines, Kenneth. 223,043.
 Burroughs Corp.: *See*—
 Sucre, Jay, and Hoffman. 223,863.
 Sucre, Jay, and Hoffman. 224,784.
 Burton, Keith O.: *See*—
 King, Roger A., and Burton. 225,216.
 Burwood Products Co.: *See*—
 Willis, Franklin M. 223,629.
 Bushy, Howard A., and P. D. Dall. Ceiling runner. 223,235, 4-4-72, Cl. D13—1.
 Busch, Robert F., and W. K. Pope, to Uniroyal, Inc. Pneumatic tire. 223,599, 5-9-72, Cl. D90—20.
 Busch, Robert F., and W. K. Pope, to Uniroyal, Inc. Pneumatic tire tread and buttress combination. 224,379, 7-18-72, Cl. D90—20.
 Bustamante, Frank E.: *See*—
 Minka, George F., and Bustamante. 224,021.
 Buti, Luigi B.: *See*—
 Del Corno, Marco, and Buti. 222,819.
 CBF Systems, Inc.: *See*—
 Benshoof, Robert E. 225,220.
 CGR Medical Corp.: *See*—
 Schubert, Ralph E., and Bally. 222,977.
 CTP Industries Inc.: *See*—
 Kamins, Seymour, Gelles, and Horodecky. 223,699.
 Kamins, Seymour, Gelles, and Horodecky. 223,700.
 Kamins, Seymour, and Rosenberg. 223,229.
 Kamins, Seymour, and Rosenberg. 223,230.
 Kamins, Seymour, and Rosenberg. 224,826.
 Cabitec, Inc.: *See*—
 Bissell, James D. 223,937.
 Cadillac Wire Corp.: *See*—
 Russo, Andelfo J. 225,191.
 Cadieu, Jean, to Societe Anonyme Automobiles Citroen. Automobile. 224,097, 7-4-72, Cl. D14—3.
 Cairo, Anthony C., to Simicon Co. Thermostat housing. 224,341, 7-18-72, Cl. D52—7.
 Calabrese, Anthony J.: *See*—
 Baum, Ronald, and Calabrese. 225,526.
 Calcinator Corp.: *See*—
 Larue, Phillip G. 223,157.
 Caldwell, John W. Chair. 223,824, 6-13-72, Cl. D15—1.
 Caldwell, John W. Chair. 224,007, 6-27-72, Cl. D15—1.
 Calevas, Harry P. Modular restaurant. 224,523, 8-1-72, Cl. D13—1.
 Callegaro, Giancarlo.: *See*—
 Farpatola, Danilo, and Callegaro. 224,584.
 Cambridge Coffee, Tea and Spice House, Inc.: *See*—
 Azar, Mitchell C. 224,000.
 Cameron Athletic Corp.: *See*—
 Davis, Otho. 225,189.
 Camos, Ernest J. Pastry cutter. 223,170, 3-21-72, Cl. D44—1.
 Camp, Nat. Liquid receptacle for vaporizer. 223,710, 5-30-72, Cl. D23—148.
 Campbell, Donald S., to Ecodyne Corp. Water conditioner. 224,654, 8-22-72, Cl. D23—3.
 Campbell, Duncan H., to Wilson & Cousins Co. Ltd. Thread protector closure cap. 223,156, 3-21-72, Cl. D23—41.
 Campbell, Ronald R.: *See*—
 Kavanagh, Thomas S., Ralston, Campbell, Awelida, and Thurmer. 223,922.
 Cammelot, Peter A., and L. F. Duvall, to The Quaker Oats Co. Expanded cereal food product. 223,891, 6-20-72, Cl. D1—1.
 Camuso, Ernest, to GAF Corp. Camera. 223,550, 5-2-72, Cl. D61—1.
 Candela, Thomas D. Face mask. 224,282, 7-18-72, Cl. D2—234.
 Cannell, James N. Packaging container for a pie or the like. 225,050, 11-7-72, Cl. D9—220.
 Canon Kabushiki Kaisha: *See*—
 Anzai, Shiro, Murata, Nishikawa, and Hanakata. 223,865.
 Anzai, Shiro, Murata, Nishikawa, and Hanakata. 224,116.
 Kazuma, Koji, and Omi. 223,594.
 Matsuda, Mutsuhide, and Yoshioka. 222,845.
 Cannon Mills Co.: *See*—
 Clementi, Leonard C. 223,318.
 Clementi, Leonard C. 223,529.
 Clementi, Leonard C. 224,879.
 Rock, John W. 224,504.
 Rock, John W. 224,851.
 Scherer, Nancy A. 223,321.
 Scherer, Nancy A. 223,322.
 Scherer, Nancy A. 223,324.
 Cannon Mills Co.: *See*—Continued
 Scherer, Nancy A. 224,500.
 Scherer, Nancy A. 224,503.
 Taiman, Edward C. 223,320.
 Taiman, Edward C. 223,323.
 Willoughby, Connie C. 223,319.
 Willoughby, Connie C. 223,530.
 Willoughby, Connie C. 224,501.
 Willoughby, Connie C. 224,502.
 Canrad Precision Industries, Inc.: *See*—
 Mills, Thomas. 225,561.
 Webb, Ronald C., and Lenz. 224,312.
 Caputo, Terese. Toy animal. 223,935, 6-20-72, Cl. D34—2.
 Card, Inc.: *See*—
 Nielsen, Watrons A. 223,442.
 Carey, Lewis S., and G. L. Mansour. Mobile fluoroscopic unit. 225,473, 12-12-72, Cl. D83—1.
 Carlinthia Elektrogerate G.m.b.H.: *See*—
 Van Lelyveld, Maarten W. 222,929.
 Carlisle, Clifton E., and M. A. Spalding. Floating home. 223,868, 6-13-72, Cl. D71—1.
 Carpenter, Herbert R., to Seaquist Valve Co. Over cap for a pressurized can. 222,853, 1-18-72, Cl. D9—258.
 Carpenter, Lindell O.: *See*—
 Ferguson, Robert M., and Carpenter. 222,838.
 Carpenter, Lindell O., and R. M. Ferguson, to Container Corp. of America. Kite. 223,381, 4-11-72, Cl. D34—15.
 Carroll, Richard I. Camping trailer. 225,622, 12-26-72, Cl. D14—3.
 Carroll, William M. Flame protector for cooking vessels. 223,119, 3-14-72, Cl. D44—29.
 Carsello, Anthony J.: *See*—
 Burkett, Wilford B., Carsello, and Hazzard. 224,811.
 Carter, Donald J., a fractional part interest to Frank Esposito. Wristlet for a bowler. 225,369, 12-12-72, Cl. D2—27.
 Carter, John M. M., to William Bailey (Birmingham) Ltd. Rotor assembly for a detent tuning mechanism for a television tuner. 223,200, 3-28-72, Cl. D26—14.
 Carter, Ronald D., to The Stanley Works. Flower shear. 223,893, 6-20-72, Cl. D8—5.
 Carter, Ronald D., to Stanley Works (Great Britain) Ltd. Combined try and miter square. 224,044, 6-27-72, Cl. D52—6.
 Carter, Ronald D., to Stanley Works (Great Britain) Ltd. Combined try and miter square. 224,625, 8-15-72, Cl. D52—6.
 Carthage Cup Co.: *See*—
 Cheladze, George A. 223,703.
 Cheladze, George A. 223,704.
 Casavant, Albert R. Instrument carrier. 224,630, 8-15-72, Cl. D87—1.
 Cassano, Victor J. Building. 223,566, 5-9-72, Cl. D13—1.
 Cassia, Antonio M., to Stelner Co. Lausanne S.A. Towel cabinet. 225,175, 11-21-72, Cl. D52—2.
 Catalano, Paul D., and G. C. Hoehne, to Retention Communications Systems, Inc. Rear projection viewer. 224,447, 7-25-72, Cl. D61—1.
 Catalano, Paul D., and G. C. Hoehne, to Retention Communications Systems, Inc. Audio visual cartridge. 223,088, 3-7-72, Cl. D26—14.
 Catalyst Products (Lelsure) Ltd.: *See*—
 Jaffe, Jack J. 225,345.
 Catena Watch Co. S.A.: *See*—
 Le Marquand, Andre. 223,372.
 Caterpillar Tractor Co.: *See*—
 Beyers, Marvin E. 223,015.
 Cato, John B. Lightning insulator pad for campers. 223,093, 3-7-72, Cl. D23—10.
 Cavitron Corp.: *See*—
 Lopez, Ulises M., Septimus, Holzwarth, and Wark. 224,070.
 Celli, Philip A.: *See*—
 Arnold, Floyd L., Brude, Celli, and Patmore. 225,232.
 Century Products, Inc.: *See*—
 Itoh, Shoichi, and Rucker. 223,536.
 Certain-Teed Saint Gobain Insulating Corp.: *See*—
 Hoffman, George A., Jr. 225,129.
 Cessna Aircraft Co.: *See*—
 Jones, Jack. 223,749.
 Chadwick, Donald T. Furniture seat. 223,570, 5-9-72, Cl. D15—1.
 Chaffee, Robert B., to Honeywell Inc. Card reader or similar article. 225,411, 12-12-72, Cl. D26—5.
 Chaisson, John W.: *See*—
 Everhart, Donald R., Pratt, and Chaisson. 225,661.
 Chamlee, Cliff. Prefabricated molded building. 225,312, 12-5-72, Cl. D13—1.
 Chan, Mingkong, to The Ashflash Corp. Electric lantern. 224,556, 8-1-72, Cl. D18—24.
 Chandler, Jasper S., and S. P. Hines, to Eastman Kodak Co. Microfilm reader housing. 225,035, 10-31-72, Cl. D61—1.
 Chandler, Maurice P., and W. L. Porter, to General Motors Corp. Vehicle wheel. 224,006, 6-27-72, Cl. D14—30.
 Chang, Ching-Yu. Chair. 223,193, 3-28-72, Cl. D15—1.
 Chapin, Roger F. Jr., to Westinghouse Electric Corp. Combined air conditioner front and side panels therefor. 222,834, 1-11-72, Cl. D23—141.
 Chapman, Anthony C. B., to Lotus Components Ltd. Model racing car. 222,919, 2-1-72, Cl. D34—15.
 Charlton, George G. Nut and bolt holder or similar article. 225,509, 12-19-72, Cl. D8—255.

- Charity, Lawrence E., to Sewell & Charity Ltd. Chair with swiveling seat. 224,856, 10-3-72, Cl. D6-49.
- Chase, Ascher, to General Foam Plastics Corp. Swimming pool. 225,243, 11-28-72, Cl. D34-5.
- Chasen, L. Richard, to Coats and Clark, Inc. Hanger for pictures, mirrors, plaques or the like. 225,613, 12-26-72, Cl. D8-257.
- Chasen, L. Richard, to Coats and Clark, Inc. Hanger for pictures, mirrors, plaques or the like. 225,614, 12-26-72, Cl. D8-257.
- Cheladze, George A., to Carthage Cup Co. Cup. 223,703, 5-30-72, Cl. D9-220.
- Cheladze, George A., to Carthage Cup Co. Cup. 223,704, 5-30-72, Cl. D9-220.
- Chernack, Milton P., to Delcron Products, Inc. Smoking device filter cartridge. 223,879, 6-13-72, Cl. D85-6.
- Chernack, Milton P., to Delcron Products, Inc. Cigarette holder. 224,760, 9-12-72, Cl. D85-8.
- Chernow, Michael, and F. E. Yarkoni, to Monocraft, Inc. Display stand. 225,192, 11-28-72, Cl. D6-28.
- Cheslock, Edward P. Clock. 223,271, 4-4-72, Cl. D42-7.
- Chess, Inc.: *See*—
- Dervishian, Robert W. 225,074.
- Chestine, Shirley D. Combination baby bath and dressing stand. 223,760, 6-6-72, Cl. D23-52.
- Chi, Yiu Dak, to Forda Mfg. Co. Ltd. Liquid dispenser. 223,693, 5-23-72, Cl. D94-3.
- Chicago Display Co.: *See*—
- Kenmotsu, Kenneth M. 222,817.
- Chicago Musical Instrument Co.: *See*—
- Owens, Buck. 225,275.
- Child, George M. Display stand or the like. 225,096, 11-14-72, Cl. D6-85.
- Childhood Promotions, Inc.: *See*—
- Posner, David William. 224,660.
- Chilton, Frederick R., E. Barczak, and S. Merendino, to Mattel, Inc. Keyboard for musical instrument or the like. 224,444, 7-25-72, Cl. D56-1.
- Chodorow, Ingram S., to Technalytics Inc. Retention suture bridge. 224,458, 7-25-72, Cl. D83-12.
- Choong, Chan. Kite. 223,716, 5-30-72, Cl. D34-915.
- Chow, Howard T., to Compact Investment and Leasing Co. Travel trailer. 224,589, 8-8-72, Cl. D14-3.
- Choy, Melvin K. H. Television stand or similar article. 224,854, 10-3-72, Cl. D6-20.
- Christlan, Thomas C.: *See*—
- Tremel, Raymond F., and Christian. 224,122.
- Christianson, Neil B. Scuttle for firewood. 225,638, 12-26-72, Cl. D23-104.
- Christen, J. C. Mfg. Co.: *See*—
- Christen, Louis J., Jr. 223,222.
- Christen, Louis J., Jr., to J. C. Christen Mfg. Co. Bag. 223,222, 3-28-72, Cl. D87-3.
- Christensin, Justin D. Coin tray. 223,882, 6-13-72, Cl. D87-1.
- Christopher, Joyce H.: *See*—
- Bass, Sidney, Baeza, and Christopher. 224,240.
- Bass, Sidney, Baeza, Christopher, and Kuchta. 224,249.
- Libby, Erin, and Christopher. 222,867.
- Chromcraft Corp.: *See*—
- Wilson, Robert L. 224,951.
- Wilson, Robert L. 224,952.
- Chrysosopolos, Demosthenis, and G. F. Minka, to TRW Data Systems, Inc. Form reader. 223,159, 3-21-72, Cl. D26-5.
- Chuboff, David P.: *See*—
- Boldt, Melvin H., and Chuboff. 223,255.
- Clavattoni, Anthony: *See*—
- Gardella, John M., Clavattoni, and Hoyt. 224,536.
- Gardella, John M., Clavattoni, and Hoyt. 224,617.
- Gardella, John M., Clavattoni, and Hoyt. 224,618.
- Gardella, John M., Clavattoni, and Hoyt. 224,619.
- Gardella, John M., Clavattoni, and Hoyt. 224,620.
- Ciba-Gelby AG: *See*—
- Sager, Kurt. 223,544.
- Cible, Pierre, to Projecteurs Cible. Housing for automotive lamp or the like. 223,634, 5-16-72, Cl. D48-32.
- Cicero, Edward L. Combined golf accessories and holder thereof. 224,328, 7-18-72, Cl. D34-5.
- Cino, Samuel J.: *See*—
- Northgrave, Franklin D., and Cino. 223,147.
- Ciprotti, Raymond R. Socket for a mop handle. 223,287, 4-4-72, Cl. D49-21.
- Circustime, Inc.: *See*—
- McMillan, Jack A. 223,239.
- McMillan, Jack A. 224,076.
- Citation Manufacturing Co., Inc.: *See*—
- Hinkle, Richard A. 223,816.
- Citizen Watch Co., Ltd.: *See*—
- Ohtsu, Yutaka. 223,965.
- Yotsukura, Masakatsu. 224,571.
- Clairol Inc.: *See*—
- Benty, John L., and Friedman. 225,132.
- Clark Equipment Co.: *See*—
- Bauer, James J. 224,588.
- Fuller, Darrell C. 222,963.
- Clark, Larry G. Toy jail playhouse. 224,252, 7-11-72, Cl. D34-15.
- Clark, Malcolm B., assignor of a fractional part interest to Ronald A. Clark. Building block. 223,352, 4-11-72, Cl. D18-2.
- Clark, Ronald A.: *See*—
- Clark, Malcolm B. 223,352.
- Clarke, Christopher H. Citrus fruit peeler. 224,372, 7-18-72, Cl. D89-1.
- Clarkin, Edward J., to Nooter Corp. Cooling panel. 224,310, 7-18-72, Cl. D23-127.
- Clarkson, Anthony T. Copy camera support stand. 223,862, 6-13-72, Cl. D61-1.
- Cleeland, Raymond T., to American Home Products Corp. Spoon or similar article. 225,178, 11-21-72, Cl. D54-12.
- Cleeland, Raymond T., to American Home Products Corp. Dinner plate or similar article. 225,434, 12-12-72, Cl. D44-15.
- Clement, Carl J., to Pholophysics, Inc. Combined data terminal and hard copy printer. 224,112, 7-4-72, Cl. D26-5.
- Clementi, Leonard C., to Cannon Mills Co. Towel or similar article. 223,318, 4-4-72, Cl. D92-26.
- Clementi, Leonard C., to Cannon Mills Co. Towel or similar article. 223,529, 4-25-72, Cl. D92-26.
- Clementi, Leonard C., to Cannon Mills Co. Sheet or similar article of bed linen. 224,879, 10-3-72, Cl. D6-264.
- Clemishaw, Douglas R., and R. G. Wells, to R. E. Dietz Co. Vehicle auxiliary lamp. 224,143, 7-4-72, Cl. D48-32.
- Clburn, Joyce G. Phone decoration. 224,023, 6-27-72, Cl. D26-14.
- Clifford, Arthur J. Tongue depressor. 224,173, 7-4-72, Cl. D83-12.
- Clinton, Harry M., to Swimrite Mfg. Co., Inc. Combined swimming pool pump and strainer. 223,250, 4-4-72, Cl. D23-4.
- Clinton, Harry M., to Swimrite, Inc. Swimming pool chlorinator. 224,401, 7-25-72, Cl. D23-3.
- Clostermann, Friedrich, to Trilux-Lenze KG. Transparent covering panel for light fitting. 224,894, 10-3-72, Cl. D48-16.
- Clostermann, Friedrich. Transparent covering panel for light fittings. 224,895, 10-3-72, Cl. D48-16.
- Clow, William R.: *See*—
- Flynn, Daniel M., Bandoski, and Clow. 224,228.
- Flynn, Daniel M., Bandoski, and Clow. 224,232.
- Flynn, David M., Bandoski, and Clow. 225,531.
- Flynn, Daniel M., Bandoski, and Clow. 225,532.
- Coalson, Thomas E. Fishing line guide. 223,662, 5-23-72, Cl. D22-24.
- Coast Catamaran Corp.: *See*—
- Alter, Hobart L. 224,606.
- Coats and Clark, Inc.: *See*—
- Chasen, L. Richard. 225,613.
- Chasen, L. Richard. 225,614.
- Coca-Cola Co., The: *See*—
- Barrash, Marshall J. 224,514.
- Koenigsberg, Victor. 224,510.
- Koenigsberg, Victor. 224,511.
- Koenigsberg, Victor. 224,512.
- Koenigsberg, Victor. 224,513.
- Cocci, Alfred J. Covered container for food or the like. 224,778, 9-19-72, Cl. D9-216.
- Coester, Betty M.: *See*—
- Hollister, Harry W., and Coester. 223,310.
- Cogar Corp.: *See*—
- Sours, William A. 223,027.
- Sours, William A. 224,597.
- Cohen, Arthur M. Bus shelter. 222,989, 2-22-72, Cl. D13-1.
- Cohen, Samuel. Clock radio. 224,749, 9-12-72, Cl. D42-7.
- Colzet, Roberto: *See*—
- Martini, Alfredo, and Colzet. 224,338.
- Cole, Clinton W. Stock trailer. 225,158, 11-21-72, Cl. D14-3.
- Cole, Eric L., to Wilkinson Sword Ltd. Sword blade. 222,934, 2-8-72, Cl. D22-1.
- Cole, Eric L., to Wilkinson Sword Ltd. Sword blade. 222,935, 2-8-72, Cl. D22-1.
- Cole, Eric L., to Wilkinson Sword Ltd. Sword blade. 222,936, 2-8-72, Cl. D22-1.
- Cole, Eric L., to Wilkinson Sword Ltd. Sword blade. 222,937, 2-8-72, Cl. D22-1.
- Cole, Eric L., to Wilkinson Sword Ltd. Sword blade. 222,938, 2-8-72, Cl. D22-1.
- Cole, Eric L., to Wilkinson Sword Ltd. Sword. 225,527, 12-19-72, Cl. D22-1.
- Cole, John D.: *See*—
- McCutcheon, Charles T., and Cole. 223,705.
- Cole, Richard C. Power boat. 224,275, 7-11-72, Cl. D71-1.
- Cole, Richard H., and E. A. Frand, to Minnesota Mining and Mfg. Co. Combined coaster set, playing card decks and holder thereof. 224,658, 8-22-72, Cl. D34-13.
- Coleco Industries, Inc.: *See*—
- Reiner, Norbert L., Huffman, and Diamond. 223,449.
- Coleman, Clarence B., and H. R. Kattelmann: said Kattelmann assignor to Fabricated Metals, Inc. Convertible valve for vacuum release or pressure relief. 223,094, 3-7-72, Cl. D23-19.
- Coleman, Clarence B., and H. B. Kattelmann, to Fabricated Metals, Inc. Liquid level indicator for a storage bin. 225,126, 11-14-72, Cl. D52-6.
- Coleman Co., Inc.: *See*—
- Baugh, Benjamin C. 225,640.
- Baugh, Benjamin C. 225,641.
- Colgate-Palmolive Co.: *See*—
- Douglas, Livingston C. Miles, and McGhie. 223,900.
- Koenigsberg, Victor. 223,142.
- Collie, Alberto W., to Oceanology Systems Design. Aquarium or similar article. 223,673, 5-23-72, Cl. D30-6.
- Collins, Delmas E., to Jones-Zylon, Inc. Wash basin. 224,222, 7-11-72, Cl. D23-48.
- Collins, Delmas E., to Jones-Zylon, Inc. Carafe. 225,436, 12-12-72, Cl. D44-21.

- Collins, Robert: *See*—
- Weber, George H., and Collins. 225,180.
- Collura, Francesco, to Keuffel & Esser Co. Stand for an electrically-powered eraser or the like. 223,968, 6-20-72, Cl. D74-5.
- Collura, Francesco, to Keuffel & Esser Co. Electrically-powered eraser or the like. 223,969, 6-20-72, Cl. D74-7.
- Coliver, Richard L. Tethered ball toy. 223,269, 4-4-72, Cl. D34-15.
- Colonial Knife Co., Inc.: *See*—
- Meserve, Don J. 224,676.
- Colson, James B., Sr.: *See*—
- Evanoff, Thomas V., Segel, and Colson. 225,117.
- Columbia Broadcasting System, Inc.: *See*—
- Rhodes, Harold B. 224,051.
- Columbus Dental Mfg. Co.: *See*—
- Cooldge, John E., Liesner, Murray, and O'Neill. 224,709.
- Columbus McKinnon Corp.: *See*—
- Hawkins, Harold V., Dick, and Bongort. 222,966.
- Hawkins, Harold V., Dick, and Bongort. 222,967.
- Hawkins, Harold V., Dick, and Bongort. 223,925.
- Combs, Roscoe: *See*—
- Condon, Richard W., Krabbe, Johannes, and Combs. 222,902.
- Comfort Lines, Inc.: *See*—
- Ross, Joseph V. 225,493.
- Commans, Bryan F., and I. Irvin, to The House of Commans, Inc. Jewelry display box. 223,233, 4-4-72, Cl. D9-239.
- Communications Components Corp.: *See*—
- Walderat, Jerry C. 223,610.
- Compact Investment and Leasing Co.: *See*—
- Chow, Howard T. 224,589.
- Compagnie Industrielle des Telecommunications: *See*—
- Barrault, Jean-Louis. 225,648.
- Compret N.V.: *See*—
- Koolbergen, Jan A. 223,614.
- Computer Terminal Corp.: *See*—
- Ray, Jon P., Roche, and Frassanito. 224,415.
- Computer Transceiver Systems, Inc.: *See*—
- Jacobson, Allen G. 223,252.
- Computer Transmission Corp.: *See*—
- Ortega, Charles J., and Naff. 223,380.
- Condon, Richard W., V. L. Krabbe, H. A. Johannes, and R. Combs, to Roper Corp. Chain saw. 222,902, 2-1-72, Cl. D8-65.
- Cone, Richard E., to The Delphos Bending Co. Snow sled. 223,942, 6-20-72, Cl. D34-15.
- Cone, Richard E., to The Delphos Bending Co. Child's rocking toy. 224,601, 8-8-72, Cl. D34-15.
- Congdon, George L., and R. Burkhalter, Jr., to Norland Corp. Scanner module for a bone mineral analyzer instrument. 223,522, 4-25-72, Cl. D83-1.
- Congoleum Industries, Inc.: *See*—
- Tejeda, Oscar G., and Shortway. 222,958.
- Conland, Robert S., to Onelda Ltd. Spoon or similar article. 222,923, 2-1-72, Cl. D54-12.
- Conner, Jack G. Clock. 224,802, 9-19-72, Cl. D42-7.
- Conner, James M.: *See*—
- Bullock, Edward K., Burke, Conner, Dietz, Morse, and Tilley. 223,730.
- Conner, James M., to Polaroid Corp. Portable carrying case for photographic I.D. equipment. 224,849, 9-26-72, Cl. D87-1.
- Conner, James M., to Polaroid Corp. Photographic camera. 224,982, 10-24-72, Cl. D61-1.
- Conner, James M., to Polaroid Corp. Front panel for camera or similar article. 225,280, 11-28-72, Cl. D61-1.
- Conner, James M., R. H. Davison, M. S. Dietz, and B. K. Johnson, to Polaroid Corp. Photographic camera or similar article. 224,272, 7-11-72, Cl. D61-1.
- Conradi, Eugene P.: *See*—
- De Puydt, Frank A., and Conradi. 224,221.
- Consolidated Foods Corp.: *See*—
- Longarzo, Roland. 223,476.
- Construction Specialties, Inc.: *See*—
- Zampetti, Patrick L. 222,812.
- Zampetti, Patrick L. 223,777.
- Zampetti, Patrick, and Deuchler. 222,895.
- Zampetti, Patrick, and Deuchler. 225,269.
- Consul Gesellschaft mit beschränkter Haftung: *See*—
- Weissman, Peter. 223,721.
- Container Corp. of America: *See*—
- Carpenter, Lindell O., and Ferguson. 223,381.
- Ferguson, Robert M., and Carpenter. 222,838.
- Continental Can Co., Inc.: *See*—
- Adomaitis, Domas and Turner. 222,851.
- Beaver, Ted L. 223,806.
- Beaver, Ted L. 223,808.
- Beaver, Ted L. 223,895.
- Beaver, Ted L. 224,201.
- Mascia, Carmen T., and Bagguley. 224,201.
- Mascia, Carmen T., and Bagguley. 224,382.
- Mascia, Carmen T., and Bagguley. 224,383.
- Mascia, Carmen T., and Bagguley. 224,640-5.
- Continental Hair Products, Inc.: *See*—
- Rizzuto, Leandro P., and Schragar. 225,284.
- Continental Specialties Co., Inc.: *See*—
- Ries, Max. 224,392.
- Continental Steel Co.: *See*—
- Smithhart, Jack A. 225,051.
- Converse Rubber Corp.: *See*—
- McCarthy, Daniel J. 223,531.
- McCarthy, Daniel J. 225,595.
- Cook, David C., Publishing Co.: *See*—
- Frost, Marie H., and Odell. 224,325.
- Cook, Merwyn O. Card table. 224,874, 10-3-72, Cl. D6-157.
- Cook, William J., to General Electric Co. Dental irrigator. 222,862, 1-18-72, Cl. D24-1.
- Cook, William J., to General Electric Co. Portable electric heater. 225,229, 11-28-72, Cl. D23-123.
- Cooldge, John E., J. W. Liesner, J. H. Murray, and R. A. O'Neill, to The Columbus Dental Mfg. Co. Dentist's lighting instrument. 224,709, 9-5-72, Cl. D24-1.
- Coon, James A., and E. Theobald. File. 222,786, 1-4-72, Cl. D8-90.
- Coon, James A., and E. Theobald, said Theobald assignor to said Coon. File. 223,744, 6-6-72, Cl. D8-90.
- Cooper, Howard. Bottle. 224,638, 8-22-72, Cl. D9-28.
- Cooper, Howard. Bottle. 225,048, 11-7-72, Cl. D9-28.
- Coplon, Robert, to Supermarkets General Corp. Petroleum products service station. 225,517, 12-19-72, Cl. D13-1.
- Corbett, James C., to Bonnie L. Bricker. Light switch actuator. 225,609, 12-26-72, Cl. D8-183.
- Correll, Carl R., Jr. Fishing lure. 225,008, 10-31-72, Cl. D22-27.
- Corey, Matilda, and J. P. Courry: said Courry assignor to said Corey. Game board. 223,032, 2-29-72, Cl. D34-5.
- Corn, Theodore A., and R. M. Harlick. Frankfurter bun. 223,223, 4-4-72, Cl. D1-15.
- Cornelius Co., The: *See*—
- Cornelius, Richard T. 223,647.
- Hartley, Robert B. 223,185.
- Hartley, Robert B. 223,648.
- Hartley, Robert B. 223,649.
- Hartley, Robert B. 223,890.
- Cornelius, Richard T., to The Cornelius Co. Double flavor drink dispensing valve unit, or similar article. 223,647, 5-16-72, Cl. D94-3.
- Cornell Mfg. Co.: *See*—
- Abbott, Murry. 225,693.
- Corning Glass Works: *See*—
- Balbach, Sara L., and Greger. 225,309.
- Beckman, Glenn B. 225,365.
- De Puy, Ronald G. 223,465.
- Ketcham, Charles B., and Reyda. 224,623.
- Killigrew, Daniel L. 225,437.
- Mercadante, Ottorino N. 225,670.
- Mirow, Gregory. 224,136.
- Reagan, Richard D. 224,920.
- Corridon, Juliana M. Pocket book. 223,788, 6-6-72, Cl. D87-3.
- Corrugated Container Co., The: *See*—
- Schleser, Warren J., and Marsh. 224,618.
- Schleser, Warren J., and Marsh. 224,639.
- Cosper, Dale L., and D. W. Steam bath cabinet. 223,478, 4-18-72, Cl. D83-1.
- Cosper, David W.: *See*—
- Cosper, Dale L., and D. W. 223,478.
- Costa, Allan A., and H. Michel. Swab for cosmetic application. 224,989, 10-24-72, Cl. D86-10.
- Coster, Theo M. S. Bottle or similar article. 224,287, 7-18-72, Cl. D9-157.
- Cot, Alexandra N.: *See*—
- Fainsliber, Julia B., and Cot. 224,550.
- Courreges, Andre, to Courreges Parfums. Combined jar and lid. 223,996, 6-27-72, Cl. D9-141.
- Courreges Parfums: *See*—
- Courreges, Andre. 223,996.
- Court, Jules A., to TC Products. Portable combined heater and lamp. 225,227, 11-28-72, Cl. D23-77.
- Courry, Joseph P.: *See*—
- Corey, Matilda, and Courry. 223,032.
- Courtenay, Charles J. Syringe and ampule warmer. 223,596, 5-9-72, Cl. D83-1.
- Courtial, Albert W., to Textron Inc. Air cushioned vehicle. 225,575, 12-19-72, Cl. D71-1.
- Cousins, Michael A., to American Can Co. Cup dispenser. 225,266, 11-28-72, Cl. D52-2.
- Covey, Laird F., to The Stanley Works. Blade holder. 223,795, 6-13-72, Cl. D8-107.
- Cox, Gerald B., to Yum-Yum Barns, Inc. Drive-in food preparation building. 224,736, 9-12-72, Cl. D13-1.
- Coy, Romaine B. Tool holder. 222,865, 1-18-72, Cl. D33-17.
- Craft, Roger L., to Gray Mfg. Co., Inc. Fork lift jack. 223,772, 6-6-72, Cl. D41-1.
- Craig, Mordecai R.: *See*—
- Sackler, Mortimer D., and Craig. 225,211.
- Crain, Philip W., F. E. Schlaue, and P. Tam, to Mattel, Inc. Launcher for toy aircraft or the like. 224,250, 7-11-72, Cl. D34-15.
- Crealock, William I. B. Sailboat. 223,517, 4-25-72, Cl. D71-1.
- Crealock, William I. B. Sailboat. 223,518, 4-25-72, Cl. D71-1.
- Creative Creations, Inc.: *See*—
- Feuer, Perry. 223,111.
- Feuer, Perry. 223,118.
- Feuer, Perry. 223,121.
- Feuer, Perry. 223,977.
- Feuer, Perry. 224,430.
- Feuer, Perry. 224,795.
- Feuer, Perry. 224,846.
- Feuer, Perry. 225,258.
- Crebolder, Josephus C., to Dike and Coenen N.V. Bunk bed. 222,821, 1-11-72, Cl. D5-4.

Crescent Interprise, Inc.: *See*—
Everhart, Donald R., Pratt, and Chaisson. 225,661.
Crestin-Billet, Bernard. Goggles. 224,483, 8-1-72, Cl. D2—234.
Crete, Richard C. Combined camera and light support dolly. 224,720, 9-5-72, Cl. D61—1.
Crew, Robert T., and O. F. George. Combined garment and trash bag. 223,897, 6-20-72, Cl. D9—250.
Crews, Everett L. Lamp. 223,507, 4-25-72, Cl. D48—20.
Cristie, Martin: *See*—
Steller, Philip, and Cristie. 223,527.
Cristie, Martin, to Stelber Industries Inc. Cycle seat brace unit. 223,528, 4-25-72, Cl. D90—8.
Crook, Frank M. Eaves trough shield. 223,829, 6-13-72, Cl. D23—42.
Crookston, Ronald W.: *See*—
Forsty, William A., Crookston, and Bertolino. 223,671.
Croon, Alexander. Travel case for mementoes or the like. 223,644, 5-16-72, Cl. D87—1.
Cross, J. W., Co.: *See*—
Inhelder, Allen E. 224,492.
Inhelder, Allen E. 224,924.
Cross, Marilyn J., to Fort Howard Paper Co. Paper toweling. 225,571, 12-19-72, Cl. D59—2.
Crossman, Phillip E.: *See*—
Anderson, Robert I., and Crossman. 224,423.
Crowder, Wily K. Rear vision visor for a helmet. 224,821, 9-26-72, Cl. D2—233.
Crown, Gordon T. Mute. 223,726, 5-30-72, Cl. D56—1.
Croyle, Jack V.: *See*—
Swett, James B., and Croyle. 223,854.
Cruz, Wilford: *See*—
Kim, Marjorie M. 223,380.
Cubicon Corp.: *See*—
Kerman, Wilbur J. 224,494.
Culbertson, Richard, to General Electric Co. Musical instrument. 225,276, 11-28-72, Cl. D56—2.
Culley, Tommie J. Photo trophy. 225,538, 12-19-72, Cl. D29—28.
Cullinan, Douglas M., to Cullinan Refractories Ltd. Road marker. 224,695, 8-29-72, Cl. D73—1.
Cullinan Refractories Ltd.: *See*—
Cullinan, Douglas M. 224,695.
Current, Wayne A., to The Singer Co. Portable sewing machine housing. 223,966, 6-20-72, Cl. D70—1.
Current, Wayne A., to The Singer Co. Portable sewing machine. 225,037, 10-31-72, Cl. D70—1.
Curtis-Young Corp.: *See*—
Young, Arthur W. 224,843.
Cutler, Lester M., and P. Friedman, to Vibra-Baths Home Products, Inc. Portable massager. 225,038, 10-31-72, Cl. D83—1.
Cuva, Angelo C. Light socket holder. 224,085, 7-4-72, Cl. D8—259.
Cyr, Steve, and M. Whelan, to Standard Oil Co. Compartmented cover for a tray. 224,090, 7-4-72, Cl. D9—254.
Cyr, Steve, and M. Whelan, to Standard Oil Co. (Indiana). Compartmented tray. 224,207, 7-11-72, Cl. D9—185.
Cyr, Steven J., and M. W. Whelan, to Standard Oil Co. (Indiana). Compartmented tray. 224,206, 7-11-72, Cl. D9—185.
Cyr, Steven J., M. W. Whelan, and J. A. Krause, to Standard Oil Co. Covered hot food tray. 225,512, 12-19-72, Cl. D9—185.
Cyr, Steven J., and M. W. Whelan, to Standard Oil Co. Combined multi-unit dish set and tray holder therefor. 225,555, 12-19-72, Cl. D44—10.
Cyr, Steven J., and M. W. Whelan, to Standard Oil Co. Combined multi-unit dish set and tray holder therefor. 225,556, 12-19-72, Cl. D44—10.
DLM Inc.: *See*—
Bishop, John L. 225,615.
Daenen, Robert, to Dart Industries, Inc. Component for a multi-piece block toy or the like. 223,463, 4-18-72, Cl. D34—15.
Daher, Theodore G., to General Electric Co. Clock or similar article. 223,946, 6-20-72, Cl. D42—7.
Daher, Theodore G., to General Electric Co. Clock or similar article. 223,947, 6-20-72, Cl. D42—7.
Daher, Theodore G., to General Electric Co. Clock or similar article. 223,948, 6-20-72, Cl. D42—7.
Daher, Theodore G., to General Electric Co. Clock or similar article. 224,747, 9-12-72, Cl. D42—7.
Daher, Theodore G., to General Electric Co. Clock or similar article. 224,748, 9-12-72, Cl. D42—7.
Daher, Theodore G., to General Electric Co. Clock or similar article. 224,750, 9-12-72, Cl. D42—7.
Dall, Paul D.: *See*—
Busby, Howard A., and Dall. 223,235.
Dailey, Donald E.: *See*—
Hann, Lloyd C., and Dailey. 222,839.
Dailey, Freda. Cake decorating marker. 224,434, 7-25-72, Cl. D44—29.
Dailey, William H. Tree bracket. 223,434, 4-18-72, Cl. D8—234.
Daimler-Benz Aktiengesellschaft: *See*—
Wilfert, Karl, and Geiger. 222,879.
Dallaire, Dominique and R. M., to P.H. Plastics Inc. Extruded plastic sill track for a window unit. 225,218, 11-28-72, Cl. D13—6.
Dallaire, Dominique and R. M., to P.H. Plastics Inc. Extruded plastic frame covering for a window unit. 225,219, 11-28-72, Cl. D13—6.

Dallaire, Dominique and R. M., to P. H. Plastics Inc. Extruded plastic sill track for a window unit. 225,319, 12-5-72, Cl. D13—6.
Dallaire, Dominique and R. M., to P.H. Plastics Inc. Extruded plastic track for a window unit. 225,396, 12-12-72, Cl. D13—6.
Dallaire, Raymond M.: *See*—
Dallaire, Dominique and R. M. 225,218.
Dallaire, Dominique and R. M. 225,219.
Dallaire, Dominique and R. M. 225,319.
Dallaire, Dominique, and Dallaire. 225,396.
Dallaire, Raymond M. Extruded plastic meeting rail for window unit. 222,932, 2-8-72, Cl. D13—6.
Dallaire, Raymond M. Double hung sill member. 222,962, 2-15-72, Cl. D13—6.
Dallaire, Raymond M. Extruded plastic window strip. 222,991, 2-22-72, Cl. D13—6.
Dallaire, Raymond M. Flat trim strip. 222,992, 2-22-72, Cl. D13—6.
Dallaire, Raymond M. Extruded plastic window trim strip. 222,993, 2-22-72, Cl. D13—6.
Dallaire, Raymond M. Header box for window. 222,994, 2-22-72, Cl. D13—6.
Dallara, Gianpaolo, to Frank Williams (Racing Cars) Ltd. Model racing car. 222,918, 2-1-72, Cl. D34—15.
Damon Corp.: *See*—
Munn, David E., and Maddestra. 224,223.
Danfoss A/S: *See*—
Jensen, Jens E. G., and Graversen. 223,797—801.
Daniels, John F., and R. A. Mockovak, to Sperry Rand Corp. Carrying case insert. 224,921, 10-10-72, Cl. D87—1.
Dansk Designs Ltd.: *See*—
Quistgaard, Jens H. 225,253.
Danti, Bernard R., and P. E. Brecka, to Millipore Corp. Power supply. 225,581, 12-19-72, Cl. D83—1.
Darr, David W. Insulated bucket for ice or the like. 225,668, 12-26-72, Cl. D44—1.
Dart Industries, Inc.: *See*—
Ashton, Harold P., and Swett. 224,674.
Ashton, Harold P., and Swett. 224,662.
Ashton, Harold P., and Swett. 225,170.
Ashton, Harold P., and Swett. 225,286.
Daenen, Robert. 223,463.
Swett, James B. 224,133.
Swett, James B., and Croyle. 223,854.
Swatt, James B., and Ashton. 224,553.
Dassler, Adolf. Casual shoe or the like. 225,093, 11-14-72, Cl. D2—310.
Data Collection Systems, Inc.: *See*—
Rosenow, Fred C. 224,353.
Datel Corp.: *See*—
Rudin, Melvin. 224,017.
Daughtry, Albert E. Crab sizing gauge. 224,440, 7-25-72, Cl. D52—6.
Daum, Gary R., to Hewlett-Packard Co. Support foot for furniture or the like. 223,498, 4-25-72, Cl. D33—1.
Dauray, Charles H., and G. F. Bliss, to U.S. Ring Traveler Co. Ring traveler. 224,957, 10-24-72, Cl. D8—248.
Dauray, Charles H., and G. F. Bliss, to U.S. Ring Traveler Co. Ring traveler. 224,959, 10-24-72, Cl. D8—248.
David, Andrew M. Jewelry pendant. 224,914, 10-10-72, Cl. D45—16.
David, Clarence J., to Ortho Pharmaceutical Corp. Medical reagent bottle. 225,398, 12-12-72, Cl. D16—1.
Davidson, Jack. Boat hull. 224,363, 7-18-72, Cl. D71—1.
Davidson, William G., to AMF Inc. Motorcycle wheel. 225,626, 12-26-72, Cl. D14—30.
Davies, Robert W.: *See*—
Brooks, Philip L., Davies, Lash, and Ordberg. 225,647.
Davis, Arnold M.: *See*—
Bixler, Loring C., Davis, Lahey, McCormick, and Wiener. 224,682.
Bixler, Loring C., Davis, Lahey, McCormick, Jr., and Wiener. 224,605.
Bixler, Loring C., Davis, McCormick, and Wiener. 223,762.
Davis, Lewis K.: *See*—
Van Syoc, Wendell M., and Davis. 224,525.
Davis, Manuel J., and C. A. Nelson, to M-J Metal Products, Inc. Wall brace. 224,904, 10-10-72, Cl. D8—228.
Davis, Myron F.: *See*—
Bixler, Loring C., Davis, and Eisenman. 225,645.
Davis, Myron F., and W. Furlani, to International Business Machines Corp. Data processing unit. 224,320, 7-18-72, Cl. D26—5.
Davis, Otho, to Cameron Athletic Corp. Shoe sole. 225,189, 11-28-72, Cl. D2—319.
Davis, William F. Inflatable riding toy. 222,807, 1-4-72, Cl. D34—15.
Davis, Wilton J.: *See*—
Roe, Richard C., and Davis. 224,284.
Davison, Richard H.: *See*—
Conner, James M., Davison, Dietz, and Johnson. 224,272.
Dawson, Calvert A. Stringed musical instrument. 224,841, 9-26-72, Cl. D56—1.
Day, Ronald H., to S. Hille & Co. Ltd. Shell chair or similar article. 225,294, 12-5-72, Cl. D6—197.
Dean, George J., Jr., to Wadsworth Control Systems, Inc. Electronic control cabinet. 224,785, 9-19-72, Cl. D26—13.
Dean Jan, and M. Schwarz, to Revlon, Inc. Artificial eyelash. 223,884, 6-13-72, Cl. D86—10.
Dean, William H.: *See*—
Hill, John E., Henes, and Dean. 224,704.

De Baschmakoff, Francois, to Lip Societe Anonyme d'Horlogerie. Cover piece for a wristwatch. 225,426, 12-12-72, Cl. D42—1.
De Baschmakoff, Francois, to Lip Societe Anonyme d'Horlogerie. Watch case. 225,428, 12-12-72, Cl. D42—8.
De Christopher, Alfred J., II. Snare drum brush or similar article. 224,445, 7-25-72, Cl. D56—1.
Deere & Co.: *See*—
Van Syoc, Wendell M., and Davis. 224,525.
Deets, John L., to Great Western Construction, Ltd., d.b.a. The Deets Mfg. Co. Combined water wheel toy and lawn sprinkler. 223,106, 8-14-72, Cl. D23—10.
De Feo, Angelo, Jr. Combination hoe, cutter and edger for gardening. 223,793, 6-13-72, Cl. D8—11.
Deines, Robert R.: *See*—
Baugh, Benjamin C., and Deines. 224,398.
De Jong, Hamilton C.: *See*—
Brewer, William R. 224,384.
Brewer, William R. 225,226.
De Jong, Maarten C., to The Stanley Works. Level. 224,663, 8-22-72, Cl. D52—6.
De La Vega, Robert P.: *See*—
Muehberger, Erich, and De La Vega. 223,986.
Del Corno, Marco, and L. B. Buti, to Minnesota Mining and Mfg. Co. Reel-storage box. 222,819, 1-4-72, Cl. D87—1.
Delcra Products, Inc.: *See*—
Chernack, Milton P. 223,879.
Chernack, Milton P. 224,760.
Delisle, Pierre: *See*—
Lapointe, Yves A., and Delisle. 223,414.
Delisle, Pierre A., and Y. A. La Pointe, to Bombardier Ltd. Vehicle body. 222,859, 1-18-71, Cl. D14—24.
Delphos Bending Co., The: *See*—
Cone, Richard E. 223,942.
Cone, Richard E. 224,601.
DeLuca, Paul V., to Porta Systems Corp. Combined electronic test panel and notation pad. 223,364, pub. 4-11-72, Cl. D26—13.
DeLuca, Paul V., to Porta Systems Corp. Outgoing trunk extender apparatus for telephone office equipment. 224,024, 6-27-72, Cl. D26—14.
Delzer, Jacob J. Combined hold down clamp and base support for batteries. 222,804, 1-4-72, Cl. D26—8.
De Mandiargues, Alain P., to Parfums Guy Laroche. Bottle. 225,212, 11-28-72, Cl. D9—169.
De Marco, Salvatore R., to Moisture Vent, Inc. Housing for humidifier or deflector or the like. 225,529, 12-19-72, Cl. D23—146.
Demetreion, James. Hot tray lifter. 224,037, 6-27-72, Cl. D44—4.
Dennehey, T. Michael: *See*—
Welss, Reinhold M., and Dennehey. 222,910.
Welss, Reinhold M., and Dennehey. 222,911.
Welss, Reinhold M., and Dennehey. 223,029.
Welss, Reinhold M., and Dennehey. 223,739.
Dennerlein, William H., and J. D. Wark, to American Can Co. Cup holder. 224,804, 9-19-72, Cl. D44—9.
Dent & Vallis: *See*—
Vallis, Joseph. 222,794.
Dental Products, Inc.: *See*—
Von Grossmann, Karl G. 222,863.
De Puy, Ronald G., to Corning Glass Works. Carafe or the like. 223,465, 4-18-72, Cl. D44—21.
De Puydt, Frank A., and E. P. Conrad, to Dico Co., Inc. Vehicle spoke wheel. 224,221, 7-11-72, Cl. D14—30.
De Ramel, Jean. Massager. 224,946, 10-17-72, Cl. D83—1.
Derby, Dan R., R. W. Knodt, and H. Korn, to Xerox Corp. Xerographic reproduction machine or the like. 224,054, 6-27-72, Cl. D61—1.
Derlan, Mildred, to J. F. Kerns Industries. Rake for shag rugs. 222,900, 2-1-72, Cl. D4—3.
DeRoue, Lloyd J. Telescoping hollow fish pole. 222,801, 1-4-72, Cl. D22—23.
Dervishian, Robert W., to Chess, Inc. Game board. 225,074, 11-7-72, Cl. D34—5.
Desa Industries, Inc.: *See*—
Averitt, Marnie C. 223,600.
Design Elements, Inc.: *See*—
Marsalka, Joseph P., and Kennedy. 224,317.
DeSoto, Inc.: *See*—
Eaves, Randall H. 222,940.
De Souza, Michael E.: *See*—
Swanson, Walter A., and De Souza. 223,774.
Deuchler, Robert: *See*—
Zampetti, Patrick, and Deuchler. 222,843.
Zampetti, Patrick, and Deuchler. 222,895.
Zampetti, Patrick, and Deuchler. 225,269.
De Wuske, David: *See*—
Belland, James A., Brown, and De Wuske. 223,802.
Diamond National Corp.: *See*—
Fleming, Kellogg D. 223,494.
Diamond National Corp.: *See*—
Reifers, Richard F., and Bixler. 223,653—9.
Reifers, Richard F., and Bixler. 223,998.
Reifers, Richard F., and Bixler. 224,678.
Reifers, Richard F., and Bixler. 224,734.
Reifers, Richard F., and Bixler. 225,213.
Reifers, Richard F., and Bixler. 225,214.
Reifers, Richard F., and Bixler. 225,514.
Reifers, Richard F., and Bixler. 225,515.
Reifers, Richard F., and Bixler. 224,965.

Diccianni, Anthony M., to Laminar Flow, Inc. Clean air work station. 224,737, 9-12-72, Cl. D16—2.
Dick, Ralph A.: *See*—
Hawkins, Harold V., Dick, and Bongort. 222,966.
Hawkins, Harold V., Dick, and Bongort. 223,925.
Hawkins, Harold V., Dick, and Bongort. 222,967.
Dickerson, James E. Footwear heel. 223,557, 5-9-72, Cl. D2—323.
Dickerson, James E. Footwear heel. 223,558, 5-9-72, Cl. D2—323.
Dickgiesser, Robert W., to Toro Mfg. Corp. Traction device for a snow thrower or similar article. 224,715, 9-5-72, Cl. D35—2.
Dickson, James R.: *See*—
Hogarth, Albert R., and Dickson. 224,738.
Dico Co., Inc.: *See*—
De Puydt, Frank A., and Conrad. 224,221.
Diebold, Inc.: *See*—
Terrell, William H. 223,367.
Diederich, Norman J.: *See*—
Pohl, Harold J., and Diederich. 224,761.
Diemond, Joseph: *See*—
Reiner, Norbert L., Huffman, and Diemond. 223,449.
Dietrich, A. G.: *See*—
Obster, Martin, and Dietrich. 223,295.
Dietrich, Gerhard, and A. Mamet, to Adlerwerke vormals Heinrich Kleyer A.G. Typewriter. 225,462, 12-12-72, Cl. D64—11.
Dietz, Milton S.: *See*—
Bullock, Edward K., Burke, Coner, Dietz, Morse, and Tilley. 223,730.
Dietz, R. E., Co.: *See*—
Clemenshaw, Douglas R., and Wells. 224,143.
Knapp, George A. 224,142.
Nagel, Robert I. 224,258.
Digital Technology Corp.: *See*—
Guldi, William R. 223,834.
Dike & Coenen N.V.: *See*—
Crebolder, Josephus C. 222,821.
Diks & Coenen N.V.: *See*—
Diks, Egbertus J. 222,871.
Neerinx, Joseph E. 223,331.
Diks, Egbertus J., to Diks & Coenen N.V. Bunk bed. 222,871, 1-25-72, Cl. D3—4.
Di Maio, Anthony E.: *See*—
Racca, Richard F., Di Maio, and Swier. 223,510.
Dimitracopoulos, Panayotis C. X-ray film enlarger-viewer. 223,299, 4-4-72, Cl. D61—1.
Di Natale, Joseph: *See*—
Sciarino, Leonard, and Di Natale. 222,836.
Dioptrix, Inc.: *See*—
Simpson, Lewis E. 224,166.
DiPierro, Michael A.: *See*—
DiPierro, Michael J., and M. A., and Mastrovito. 223,667.
DiPierro, Michael J., and M. A., and D. P. Mastrovito, to Standard Oil Co. Portable sink unit. 223,667, 5-23-72, Cl. D23—58.
Disston, Inc.: *See*—
Bartasevich, William E., Jr. 225,202.
Edgell, James E. 225,203.
Dittman, David T., to Pet, Inc. Foil packaging tray. 223,189, 3-28-72, Cl. D9—219.
Dixon-Bartlett-Lambrecht, Inc.: *See*—
Eaton, Wiley R. 224,632.
Dixon, Ruth L. Napkin holder. 223,719, 5-30-72, Cl. D44—20.
Dixon, William R., to GTE Sylvania Inc. Television toy. 224,428, 7-25-72, Cl. D34—15.
Doblin, Jay: *See*—
Tucker, James E., and Doblin. 225,587.
Dochterman, Richard W., to General Electric Co. Dynamoelectric machine cover. 225,334, 12-5-72, Cl. D26—5.
Dochterman, Richard W., to General Electric Co. Dynamoelectric machine. 225,335, 12-5-72, Cl. D26—5.
Documentor Sciences Corp.: *See*—
Crain, William W. 223,361.
Doe, Walter P., to The Quaker Oats Co. Pull toy. 225,165, 11-21-72, Cl. D34—15.
Doggart, John, to V & E Friedland Ltd. Wall chime. 223,304, 4-4-72, Cl. D72—1.
Dolby, John T.: *See*—
Adler, James S., and Dolby. 223,678.
Doman, Donald W., to Kohler Co. Water closet. 224,108, 7-4-72, Cl. D23—65.
Doman, Donald W., to Kohler Co. Handle for plumbing fixture. 224,225, 7-11-72, Cl. D23—28.
Doman, Donald W., to Kohler Co. Whirlpool bath attachment. 224,945, 10-17-72, Cl. D83—11.
Dombl, Geza. Wedding cake ornament. 223,030, 2-29-72, Cl. D29—24.
Donihue, Cecelia. Fortune indicating chart. 225,015, 10-31-72, Cl. D34—5.
Donnelly, William B., to General Electric Co. Phonograph console. 223,052, 3-7-72, Cl. D56—4.
Donoghue, Robert J. Combined bottle and closure therefor. 222,800, 1-4-72, Cl. D9—10.
Donoghue, Robert J. Bottle and closure therefor. 223,335, 4-11-72, Cl. D9—10.
Donoghue, Robert J. Bottle. 224,203, 7-11-72, Cl. D9—131.
Dorlon, Francis W., Jr., to The Gillette Co. Dual blade unit for a safety razor. 224,852, 9-26-72, Cl. D95—3.
Dorn, Chester, to Superior Manufacturing Co. Hand grease gun. 222,822, 1-11-72, Cl. D8—141.
Doss, Thomas H. Metal detecting pick-up coil. 222,844, 1-11-72, Cl. D52—1.

- Dosso, Felice: *See*—
Gonsalves, George E., and Dosso. 225,032.
- Dougherty, Dennis W. Sheet. 225,385, 12-5-72, Cl. D92—26.
- Dougherty, James R. Teeth cleaning apparatus. 224,595, 8-8-72, Cl. D24—1.
- Douglas, David. Casserole. 223,587, 5-9-72, Cl. D44—15.
- Douglas, David. Carafe or similar article. 224,034, 6-27-72, Cl. D44—21.
- Douglas, David. Goblet or similar article. 224,035, 6-27-72, Cl. D36—8.
- Douglas, David. Utensil hanger or similar article. 224,838, 9-26-72, Cl. D44—29.
- Douglas, Livingston C., G. D. Miles, and R. P. McGhie, to Colgate-Palmolive Co. Dispensing closure. 223,900, 6-20-72, Cl. D9—278.
- Douglas, Raymond J.: *See*—
Lovejoy, Robert B., Ashby, Bosley, and Douglas. 224,253.
- Doumit, Joseph A. TV program selector. 222,922, 2-1-72, Cl. D52—6.
- Dover Corp.: *See*—
Brown, George Z., and Babcock. 223,915.
- Dover, Donald H. W. Bottom end lath for a roller shutter. 222,830, 1-11-72, Cl. D13—1.
- Dover, Donald H. W. Seal retaining member for a roller shutter. 224,396, 7-25-72, Cl. D13—8.
- Dow Chemical Co.: *See*—
Blank, Elliott E. 223,702.
- Dowco Corp.: *See*—
Dowdell, Joshua R., Jr., and Sanderson. 223,577.
- Dowd, Joseph F. Portable shower facility or the like. 225,635, 12-26-72, Cl. D23—49.
- Dowdell, Joshua R., Jr., and P. H. Sanderson, Jr., to Dowco Corp. Louver blade. 223,577, 5-9-72, Cl. D23—112.
- Dowsett, James D. Sign. 225,288, 11-28-72, Cl. D96—12.
- Doyel, John S. Grass trimmer. 225,605, 12-26-72, Cl. D8—8.
- Drackett Co., The: *See*—
Jones, David A. 224,783.
- Dragan, William B. Nozzle tip. 224,655, 8-22-72, Cl. D24—1.
- Dreier, Raymond C. Hack saw frame. 224,903, 10-10-72, Cl. D8—96.
- Dreyfuss, Henry, and R. R. Stokes, to Bell Telephone Laboratories, Inc. Videotelephone transceiver control unit. 223,833, 6-13-72, Cl. D26—14.
- Du Bois, Ronald S.: *See*—
Smith, Richard D., and Du Bois. 224,958.
- Dubois, Ralph L. Disposable cup dispenser. 223,471, 4-18-72, Cl. D52—2.
- Duclos, George, to UVC-Inc. Doll. 225,339, 12-5-72, Cl. 34—4.
- Duern, Gordon L., and D. S. Griffin, to Electrohome Ltd. Floor lamp. 224,690, 8-29-72, Cl. D48—20.
- Duern, Gordon L., and D. S. Griffin, to Electrohome Ltd. Table lamp. 224,691, 8-29-72, Cl. D48—20.
- Duester, Everett L.: *See*—
Watamura, Donald, and Duester. 224,768.
- Dumm, Irving, III. Pickup truck bed supported bike transporter. 224,003, 6-27-72, Cl. D14—6.
- Dumm, Irving, III, and C. A. Wilson. Pallet making jig. 224,342, 7-18-72, Cl. D54—1.
- Dunbar, Patricia. Chair. 224,855, 10-3-72, Cl. D6—47.
- Dunlop Holdings Ltd.: *See*—
Bartlett, Eric C. 223,888.
- Mills, Iain C. 223,887.
- Mills, Iain C. 223,092.
- Dunlop Tire and Rubber Corp.: *See*—
Hoke, Gilbert J. 222,928.
- Dunphy, James J. Fishing pole holder. 224,681, 8-29-72, Cl. D22—22.
- Dupler, Raymond R. Space heater. 224,534, 6-1-72, Cl. D23—93.
- Durso, Dyanne E. Spoon. 223,592, 5-9-72, Cl. D54—12.
- Dustman, Delmar R. Display stand. 224,610, 8-15-72, D6—20.
- Duvall, Leroy F.: *See*—
Cammelot, Peter A., and Duvall. 223,891.
- Duvall, Leroy F., and C. D. Stone, to The Quaker Oats Co. Expanded cereal food product. 223,326, 4-11-72, Cl. D1—1.
- Duvall, Leroy F., and C. D. Stone, to The Quaker Oats Co. Expanded cereal food product. 224,077, 7-4-72, Cl. D1—1.
- Dynamic Learning Media, Inc.: *See*—
Page, Leonard. 223,280.
- Dziurgot, Michael A. Golf putter head. 222,889, 1-25-72, Cl. D34—5.
- E.F.E. (European Fund Establishment): *See*—
Boucher, Guy. 222,872.
- EZ Paints Corp.: *See*—
Jarecki, James J. 223,872.
- Jarecki, James J. 223,873.
- Pharris, John A., and Miachnik. 223,017.
- Earl, T. Desmond, to Textron Inc. Aircraft. 224,607, 8-8-72, Cl. D71—1.
- East, Ashasha. Therapeutic cap. 225,088, 11-7-72, Cl. D83—1.
- Eastman Kodak Co.: *See*—
Chandler, Jasper S., and Hines. 225,035.
- Knowles, Frederick G. 224,791.
- Laughon, Thomas C. 224,165.
- Laughon, Thomas C. 224,449.
- Sias, James H. 223,125.
- Swayze, Samuel F. 223,176.
- Vigna, Ralph M. 223,055.
- Eaton Corp.: *See*—
Regan, John F. 224,569.
- Eaton Yale & Towne Inc.: *See*—
Eisenreich, William. 223,432.
- Muessel, Dan C., and Eisenreich. 223,431.
- Satterfield, Rigsby C. 222,857.
- Satterfield, Rigsby C. 223,191.
- Spencer, Clifford A. 223,459.
- Spencer, Clifford A. 223,461.
- Spencer, Clifford A. 223,462.
- Eaves, Randall H., to DeSoto, Inc. Fireplace grate. 222,940, 2-8-72, Cl. D23—98.
- Ebata, Takemi, to Matsuhita Electric Industrial Co., Ltd. Cassette tape recorder. 224,410, 7-25-72, Cl. D26—14.
- Ebauches Electroniques S.A.: *See*—
Vuilleumier, Gaston. 225,429.
- Ecodyne Corp.: *See*—
Campbell, Donald S. 224,654.
- Economou, Hercules. Shade umbrella. 223,789, 6-6-72, Cl. D88—3.
- Ecton, Wiley R., to Dixon-Bartlett-Lambrecht, Inc. Woman's shoe. 224,632, 8-22-72, Cl. D2—297.
- Eddy, Robert E. Surgical tray. 224,671, 8-22-72, Cl. D83—1.
- Eden, James F. Bear figure device for holding toys, clothing or the like. 224,030, 6-27-72, Cl. D34—15.
- Edgar, Howard M., and R. Lewis, to Borg-Warner Corp. Chair. 222-997, 2-22-72, Cl. D15—1.
- Edgell, James E., to Disston, Inc. Upright cordless electric grass shear. 225,203, 11-28-72, Cl. D8—8.
- Edison Brothers Stores, Inc.: *See*—
Bloom, Bernard. 224,524.
- Educare Childcare Centers, Inc.: *See*—
Folts, Mark B. 223,567.
- Educational Supply Association Ltd., The: *See*—
Bodman, John M. O. 225,346.
- Edwards, Bryant, to Illinois Tool Works Inc. Packaging cup or the like. 222,961, 2-15-72, Cl. D9—216.
- Edwards, Bryant. Packaging cup or the like. 223,898, 6-20-72, Cl. D9—216.
- Edwards, Frank M., to McGraw Division of American Hospital Supply Corporation. Filtration unit for blood and other medical liquids. 224,408, 7-25-72, Cl. D16—2.
- Edwards, Harry, to Weathershields Ltd. Sealing strip primarily for the sliding roof of a vehicle or similar article. 223,708, 5-30-72, Cl. D14—6.
- Edwards, Harry, to Weathershields Ltd. Sealing strip for the sliding roof of a vehicle or similar article. 223,819, 6-13-72, Cl. D14—6.
- Edin, Ronald E.: *See*—
Brooks, David N., and Edin. 225,056.
- Eguchi, Yoshiaki, to Janome Sewing Machine Co., Ltd. Sewing machine. 223,867, 6-13-72, Cl. D70—1.
- Ehninger, Robert T.: *See*—
Miser, Loyal F. 222,886.
- Ehrensaul, Jay, to Swank, Inc. Card ejector case, or similar article. 223,979, 6-20-72, Cl. D87—3.
- Ehrlich, Hans O. G.: *See*—
Ahlstrom, Tom E. T. 225,198.
- Elb, Byon E. Television lamp. 225,172, 11-21-72, Cl. D48—20.
- Einstein, Alfred C., N. C. Wolff, Jr., and H. D. Moran, to Affiliated Hospital Products, Inc. Pool game board. 225,240, 11-28-72, Cl. D34—5.
- Elpper, Gertrude. Noodle press. 223,949, 6-20-72, Cl. D44—29.
- Elsele, Charles W., to H. C. Price Co. Coating flaw detector. 223,665, 5-23-72, Cl. D26—1.
- Elsele, Charles W., to H. C. Price Co. Coating holiday detector. 223,666, 5-23-72, Cl. D26—1.
- Elsele, Charles W., to H. C. Price Co. Case for a holiday detector or similar article. 225,383, 12-5-72, Cl. D87—1.
- Elsenheis, Opal. Hand loom for making woven strips. 224,900, 10-3-72, Cl. D92—15.
- Eisenman, Francis J.: *See*—
Bixler, Loring C., Davis, and Eisenman. 225,645.
- Eisenreich, William: *See*—
Muessel, Dan C., and Eisenreich. 223,431.
- Eisenreich, William, to Eaton Yale & Towne Inc. Electrical key. 223,432, 4-18-72, Cl. D8—136.
- Ekco Products, Inc.: *See*—
Anton, Patricia A. 225,364.
- Bloch, Roy W. 223,144.
- Bloch, Roy W. 223,145.
- Bloch, Roy W. 224,288.
- Bloch, Roy W. 224,289.
- Maasshoff, Gunter. 223,146.
- Eldon Industries, Inc.: *See*—
McCue, Daniel E. 224,560.
- Electrohome Ltd.: *See*—
Duern, Gordon L., and Griffin. 224,690.
- Duern, Gordon L., and Griffin. 224,691.
- Griffin, Donald S. 224,159.
- McQuarrie, Harvey K. 223,962.
- McQuarrie, Harvey K. 224,161.
- Electronic Associates, Inc.: *See*—
Arnold, Floyd L., Brude, Celli, and Patmore. 225,232.
- Studer, John E., Jr. 224,018.
- Electronic Molding Corp.: *See*—
Murphy, James V. 223,109.
- Electrosil Ltd.: *See*—
Trickey, Ronald H. 223,000.
- Trickey, Ronald H. 225,108.
- Ellix Industries: *See*—
Sahm, Roland R. 224,149.
- Sahm, Roland R. 224,150.

- Elkay Manufacturing Co.: *See*—
Hauser, Jon W. 224,533.
- Hauser, Jon W. 224,573.
- Elkins, Vance V., Jr. Golf putter. 224,545, 8-1-72, Cl. D34—5.
- Ellis, Charles M. Electric brush sterilizer. 223,874, 6-13-72, Cl. D83—1.
- Ellis, Josh H. Chuck key. 222,985, 2-22-72, Cl. D8—14.
- Elson, Edward E., B. Lane, and G. H. Karlin, to Automatic Helium Balloon Systems, Inc. Balloon inflater. 223,475, 4-18-72, Cl. D65—1.
- Elvestad, Leif. Combined bar cabinet and refrigerator. 223,373, 4-11-72, Cl. D33—19.
- Emanuel, Roy L., to Institutional Maintenance Corp. Combination utility sink can washer sanitizer. 223,830, 6-13-72, Cl. D93—50.
- Emerson Electric Co.: *See*—
Shiley, Ralph W. 225,651.
- Steiner, Robert E. 225,010.
- Steiner, Robert E. 225,011.
- Emhart Corp.: *See*—
Bagn, Bjorn. 225,616.
- Gerlach, John R. 222,874.
- Gerlach, John R. 222,875.
- Gerlach, John R. 222,876.
- Gerlach, John R. 222,877.
- Emmerling, Roland A., to Atlas-Rand Corp. Motion picture camera. 223,411, 4-11-72, Cl. D61—1.
- Emmerling, Ronald A., to Keystone Division of Berkey Photo. Camera. 224,572, 8-1-72, Cl. D61—1.
- Empire Furniture Corp.: *See*—
Keller, Huey T. 224,199.
- Empire Stove Co.: *See*—
Bearinger, Wells S. 222,870.
- Endo, Koji, and T. Fukazawa, to True Temper Corp. Fishing reel. 223,605, 5-16-72, Cl. D22—25.
- Engel, John B., to Bay West Paper Co. Towel dispensing cabinet. 224,439, 7-25-72, Cl. D52—2.
- Engel, Mogens. Coin holder. 225,589, 12-19-72, Cl. D87—3.
- Engert, Heinz: *See*—
Tupaj, Manfred P., and Engert. 224,322.
- Englesberg, Julius L.: *See*—
Otto, Walter J. 223,040.
- Enskel, Richard K., and M. P. Arnone, to Kreisler Manufacturing Corp. Dual pen holder. 223,870, 6-13-72, Cl. D74—5.
- Enzel, Fred W., and E. P. Hillary, to Kellwood Co. Combined tent and fly cover therefor. 224,850, 9-26-72, Cl. D88—3.
- Eprad Inc.: *See*—
Boudouris, Angelo, and Gray. 225,375.
- Gray, Geoffrey T. 223,918.
- Erickson, Stanley T. Reel. 222,798, 1-4-72, Cl. D8—222.
- Erickson, James W., and D. M. Genaro, to Bell Telephone Laboratories, Inc. Pedestal mounted telephone station. 223,815, 6-13-72, Cl. D13—1.
- Ernest, Robert C., to Sunbeam Corp. Electric shaver. 223,076, 3-7-72, Cl. D95—3.
- Ernst, Leo J. Golf putter head. 223,031, 2-29-72, Cl. D34—5.
- Escalante, Conrad J. Outdoor illuminated sign. 225,187, 11-21-72, Cl. D96—12.
- Esco Mfg. Inc.: *See*—
Oshorn, Merritt A. 222,987.
- Esposito, Frank: *See*—
Carter, Donald J. 225,389.
- Esquina, Joseph R., and J. D. Addy. Combined seat and vibratable reed musical instrument. 224,269, 7-11-72, Cl. D56—1.
- Ess'Tee Industries: *See*—
Voth, Robert J. 222,908.
- Essoldo Furnishers Ltd.: *See*—
Mann, Peter G., and White. 223,246.
- Etablissements Allibert: *See*—
Firdmann, Jacques. 223,374.
- Evanoff, Thomas V., J. S. Segel, and J. B. Colson, Sr.: said Segel and said Colson assignors to said Evanoff. Set of chess men. 225,117, 11-14-72, Cl. D34—5.
- Evans-Aristocrat Industries, Inc.: *See*—
Gould, Robert J. 223,008.
- Evans, Wallace D., Jr., to Rolatape Corp. Distance measuring instrument. 224,045, 6-27-72, Cl. D52—8.
- Evans, Wallace D., Jr., to Rolatape Corp. Distance measuring instrument. 224,046, 6-27-72, Cl. D52—8.
- Everhart, Donald R., D. Pratt, and J. W. Chaisson, to Crescent Interprise, Inc. Toy racing car. 225,661, 12-26-72, Cl. D34—15.
- Everwear Park & Playground Equipment, Inc.: *See*—
Price, John F., and Johnson. 224,796.
- Eves, Randal M., and W. J. Brian, to Munster Simms Engineering Limited. Manually operated diaphragm pump. 224,594, 8-8-72, Cl. D23—14.
- Ewers, Ronald L., to Game Time, Inc. Seat for playground apparatus. 224,326, 7-18-72, Cl. D34—5.
- Ewers, Ronald L., to Game Time, Inc. Playground equipment support. 224,246, 7-11-72, Cl. D34—5.
- Ex-Cell-O Corp.: *See*—
Vollquartz, Verner. 224,646.
- F.J.L. Corp.: *See*—
Skinner, James R., Uitz, and Hait. 225,181.
- FMC Corp.: *See*—
Halopoff, William E. 223,817.
- Fabricated Metals, Inc.: *See*—
Coleman, Clarence B., and Kattelmann. 223,094.
- Coleman, Clarence B., and Kattelmann. 225,126.
- Fadtro, Inc.: *See*—
Kahn, Robert D. 224,621.
- Fagg, Everett A. E.: *See*—
Nelson, Robert A. 224,361.
- Fagioli, Louis J. Jacket or similar article. 224,582, 8-8-72, Cl. D2—183.
- Fainsilber, Julia B., and A. N. Cot. Clock. 224,550, 8-1-72, Cl. D42—7.
- Falconcraft (Aluminium) Ltd.: *See*—
Hood, Arthur W. 223,435.
- Faldborg, Maurice C. Finding for a brooch or the like. 224,036, 6-27-72, Cl. D45—19.
- Fear, Jeffery R. Chair. 224,484, 8-1-72, Cl. D6—56.
- Federal Pacific Electric Co.: *See*—
Fortier, Jean R., and Martin. 225,677.
- Leong, Henry, Johnson, and Fortier. 225,678.
- Fedtro, Inc.: *See*—
Kahn, Robert D. 223,108.
- Kahn, Robert D. 223,825.
- Kahn, Robert D. 223,926.
- Kahn, Robert D. 224,276.
- Kahn, Robert D. 224,318.
- Felgenbaum, Robert E.: *See*—
Hock, Donald D., Felgenbaum, Korte, and Baynes. 224,243.
- Felker, Paul J., to Penetred Corp. Automobile tire. 223,184, 3-21-72, Cl. D90—20.
- Fell, Ferol S., W. D. Long, B. L. Wells, and R. E. Ten Eyck, to Hesston Corp., and Field Queen Inc., a fractional part interest to each. Self-propelled forage harvester. 223,466, 4-18-72, Cl. D40—1.
- Fellows, Allen M. Hose support. 224,865, 10-3-72, Cl. D6—112.
- Felske, Arthur M.: *See*—
Healy, Colin M., and Felske. 225,360.
- Fendrick, Daniel. Picture frame. 224,877, 10-3-72, Cl. D6—242.
- Ferar, Montgomery: *See*—
Barecki, Chester J., Sundberg, and Ferar. 223,025.
- Ferdinand, Irwin J., and I. R. Kulbersh, to The Hirsch Co. Storage box. 223,886, 6-13-72, Cl. D87—1.
- Ferguson, Robert M.: *See*—
Carpenter, Lindell O., and Ferguson. 223,381.
- Ferguson, Robert M., and L. O. Carpenter, to Container Corp. of America. Kite. 222,838, 1-11-72, Cl. D34—15.
- Ferris, Charles E., to Stanwood Plastic Products Ltd. Clothes brush. 224,461, 7-25-72, Cl. D86—13.
- Ferro Corp.: *See*—
Haley, Dwight L. 225,087.
- Fetty, Harold D.: *See*—
Granger, Dennis B., and Fetty. 223,426.
- Feuer, Perry, to Creative Creations, Inc. Toy Santa Claus boot with spring-up head. 223,111, 3-14-72, Cl. D34—4.
- Feuer, Perry, to Creative Creations, Inc. Plastic novelty ice cream cone. 223,118, 3-14-72, Cl. D34—15.
- Feuer, Perry, to Creative Creations, Inc. Santa Claus clothes pin. 223,121, 3-14-72, Cl. D49—1.
- Feuer, Perry, to Creative Creations, Inc. Combined doll and mirror. 223,977, 6-20-72, Cl. D86—10.
- Feuer, Perry, to Creative Creations, Inc. Helicopter toy. 224,430, 7-25-72, Cl. D34—15.
- Feuer, Perry, to Creative Creations, Inc. Sparkler toy. 224,795, 9-19-72, Cl. D34—15.
- Feuer, Perry, to Creative Creations, Inc. Pencil. 224,846, 9-26-72, Cl. D74—24.
- Feuer, Perry, to Creative Creations, Inc. Illuminable novelty pin. 225,258, 11-28-72, Cl. D45—19.
- Fichtel & Sachs AG: *See*—
Lannoch, Hans-Judgen. 224,922.
- Lannoch, Hans-Jurgen. 225,591.
- Field Queen Inc.: *See*—
Fell, Ferol S., Long, Wells, and Ten Eyck. 223,466.
- Fille, Harold T., to Aspro, Nicholas Ltd. Tablet. 223,759, 6-6-72, Cl. D16—3.
- Fine, Archie R., and C. T. Poindexter. Handle grip. 222,797, 1-4-72, Cl. D8—107.
- Finkel, Edward, to JFD Electronics Corp. Telescoping antenna. 223,453, 4-18-72, Cl. D26—14.
- Finkel, Edward, to JFD Electronics Corp. Antenna base. 223,454, 4-18-72, Cl. D26—14.
- Finkel, Edward, to JFD Electronics Corp. Antenna base. 223,455, 4-18-72, Cl. D26—14.
- Finkel, Edward, to JFD Electronics Corp. Antenna. 223,456, 4-18-72, Cl. D26—14.
- Finkel, Henry, to W.L. Plastics and Metal Producers Co., Ltd. Desk calendar holder. 223,415, 4-11-72, Cl. D74—5.
- Finley, Richard O. Calibrated compass. 223,636, 5-16-72, Cl. D52—96.
- Finley, Walter H. Tie rod wrench. 223,697, 5-30-72, Cl. D8—21.
- Finn Equipment Co., The: *See*—
Lingert, Ralph E., and Keyes. 223,051.
- Firdmann, Jacques, to Etablissements Allibert. Cabinet. 223,374, 4-11-72, Cl. D33—19.
- Firma Drabert Sohne: *See*—
Lange, Gerd. 225,195.
- First National Bank in Peru: *See*—
Roebuck, Malcolm J. 225,031.
- Fischer & Porter Co.: *See*—
Metzger, Harold W. 223,775.
- Fishbein, Harold C. Electric lamp bulb. 223,537, 5-2-72, Cl. D26—8.
- Fisher, Janice M. Combined golf ball marker and holder. 224,657, 8-22-72, Cl. 434—5.
- Fisher, Morris F., to Mohasco Industries, Inc. Chair. 224,590, 8-8-72, Cl. D15—1.

Fisher, Morris F., to Mohasco Industries, Inc. Chair. 224,861, 10-3-72, Cl. D6-71.
 Fisher, Morris F., to Mohasco Industries, Inc. Chair. 225,144, 11-21-72, Cl. D6-39.
 Fisher, Morris F., to Mohasco Industries, Inc. Chair. 225,147, 11-21-72, Cl. D6-71.
 Fisher, Morris F., to Mohasco Industries, Inc. Chair. 225,148, 11-21-72, Cl. D6-71.
 Fites, Larry L., K. M. Mann, K. A. Utrecht, to The Upjohn Co. Cassette packaging holder. 225,049, 11-7-72, D9-187.
 Fitzgerald, Timothy P., to Image Systems, Inc. Film reader/printer. 224,808, 9-19-72, Cl. D61-1.
 Fitzgerald, Timothy P., W. O. Nix, and H. D. Sandeffer, to Image Systems, Inc. Film duplicator. 224,807, 9-19-72, Cl. D61-1.
 Fleischer, Leonard T. Seed plate adapter. 225,664, 12-26-72, Cl. D35-2.
 Fleming, Kellogg D., to Diamond National Corp. Ballot counter. 223,494, 4-25-72, Cl. D26-5.
 Fletcher-Terry Co., The. *See*—
 Insolio, Thomas A. 225,607.
 Flexallite Corp.: *See*—
 Pommert, Robert C. 225,530.
 Filder, Frank S., to The Justrite Mfg. Co. Carbide lamp. 224,839, 9-26-72, Cl. D48-24.
 Filder, Frank S., to The Justrite Mfg. Co. Battery case. 225,109, 11-14-72, Cl. D26-6.
 Flick, Francis S., D. A. Roberts, and E. R. Burke, to Health & Education Services Corp. Exerciser. 225,342, 12-5-72, Cl. D34-5.
 Flick, Francis S., D. A. Roberts, and E. R. Burke, to Health & Education Services Corp. Exerciser. 225,343, 12-5-72, Cl. D34-5.
 Flowers & la Karte, Inc.: *See*—
 Looms, Peter. 223,104.
 Floyd, Robert W., to The B. F. Goodrich Co. Tire. 224,578, 8-1-72, Cl. D90-20.
 Floyd, Robert W., to The B. F. Goodrich Co. Tire. 224,581, 8-1-72, Cl. D90-20.
 Flynn, Daniel M., S. J. Bandoski, Jr., and W. R. Clow, to Hampden Engineering Co. Fractional horsepower DC controller. 224,228, 7-11-72, Cl. D26-13.
 Flynn, Daniel M., S. J. Bandoski, Jr., and W. R. Clow, to Hampden Engineering Co. Fractional horsepower AC controller. 224,232, 7-11-72, Cl. D26-13.
 Flynn, Daniel M., S. J. Bandoski, Jr., and W. R. Clow, to Hampden Engineering Co. Transformer learning center. 225,531, 12-19-72, Cl. D25-1.
 Flynn, Daniel M., S. J. Bandoski, Jr., and W. R. Clow, to Hampden Engineering Co. Solid state logic learning center. 225,532, 12-19-72, Cl. D25-1.
 Fogg, Walter K. Nippers. 223,226, 4-4-72, Cl. D8-57.
 Follis, Mark B., to Educare Childcare Centers, Inc. Building. 223,567, 5-9-72, Cl. D13-1.
 Forbes, Martin V. Wig block stand. 223,689, 5-23-72, Cl. D80-8.
 Ford Motor Co.: *See*—
 Bordinat, Eugene, Jr. 223,427.
 Ford, Richard I. Combined lamp holder and reflector or similar article. 222,809, 1-4-72, Cl. D48-4.
 Forda Mfg. Co. Ltd.: *See*—
 Chi, Yiu Dak. 223,693.
 Foresight Products, Inc.: *See*—
 Heckathorn, Michael V. 225,285.
 Foresta, Francis A. Electronic telephone answering unit. 223,496, 4-25-72, Cl. D26-14.
 Formica Corp.: *See*—
 Lax, Michael. 223,607.
 Lax, Michael. 223,608.
 Lax, Michael. 223,609.
 Forrester, Joseph H. Chest of drawers or similar article. 225,150, 11-21-72, Cl. D6-152.
 Forst, William A., R. W. Crookston, and A. U. Bertolino, to Westinghouse Electric Corp. Circuit breaker. 223,671, 5-23-72, Cl. D26-13.
 Fort Howard Paper Co.: *See*—
 Cross, Marilyn J. 225,571.
 Rae, Ronald L. 224,917.
 Rohde, Eugene L. 224,919.
 Fortier, Jean R.: *See*—
 Leong, Henry, Johnson, and Fortier. 225,678.
 Fortier, Jean R. and P. S. Martin, to Federal Pacific Electric Co. Electrical thermostat. 225,677, 12-26-72, Cl. D52-7.
 Foster Grant Co., Inc.: *See*—
 Bloch, Jack. 223,511.
 Bloch, Jack. 224,160.
 Bloch, Jack. 224,347.
 Bloch, Jack. 224,348.
 Bloch, Jack. 224,349.
 Foster, Howard S. Man's suit or similar article. 224,482, 8-1-72, Cl. D2-29.
 Fowler, Theron R.: *See*—
 Hamburg, Henry F., and Fowler. 223,501.
 Frakes, James H., Jr.: *See*—
 Abend, Chester J., and Frakes, Jr. 224,570.
 Abend, Chester J., and Frakes. 222,896.
 Francis, John P. Automobile rain visor for drive-in theatres. 225,001, 10-31-72, Cl. D14-6.
 Francis, John P. Folding rain visor for automobiles. 225,002, 10-31-72, Cl. D14-6.
 Francis, John P. Automobile rain visor for drive-in theatres. 225,003, 10-31-72, Cl. D14-6.
 Francis, John P. Removable window case structure. 225,215, 11-28-72, Cl. D13-1.
 Francken, Ruth. Chair. 223,813, 6-13-72, Cl. D15-1.
 Frand, Erwin A.: *See*—
 Cole, Richard H., and Frand. 224,658.
 Franitz, Paul F. Handbag. 224,728, 9-5-72, Cl. D87-3.
 Frank, Randolph L. Inflatable sled. 224,127, 7-4-72, Cl. D34-15.
 Franklin, Lester K. Combined lamp and radio for bicycles. 223,469, 4-18-72, Cl. D48-24.
 Franz, Christian: *See*—
 Koenig, Gustav, Franz, and Huebner. 222,861.
 Franzino, Eugene: *See*—
 Wallach, Ronald M., and Franzino. 224,898.
 Franzone, John. Combined clock and indoor television antenna. 224,973, 10-24-72, Cl. D26-14.
 Frassanito, John R.: *See*—
 Ray, Jon F., Roche, and Frassanito. 224,415.
 Frazer, John S., to Union Carbide Corp. Jug. 223,896, 6-20-72, Cl. D9-42.
 Frederick, Phyllis, D. F. Sims, and C. R. Zimmerman, to Mattel, Inc. Guessing game board. 224,546, 8-1-72, Cl. D34-5.
 Freedman, Alan A., to Bergman Tool Mfg. Co., Inc. Battery carrier. 223,081, 3-7-72, Cl. D8-14.
 Freedman, Stuart I., to Monogram Industries, Inc. Service cart. 223,240, 4-4-72, Cl. D14-3.
 Freedman, Stuart I., to Walter Kidde & Co., Inc. Food carts. 224,888, 10-3-72, Cl. D14-3.
 Fregard, Ernest M., to Advance Transformer Co. Universal bracket for mounting mercury ballasts. 223,483, 4-25-72, Cl. D8-234.
 Freeman, Dixon L. Cabinet shelf bracket. 225,508, 12-19-72, Cl. D8-225.
 Fresard, Marcel, to Mefina S.A. Portable washing apparatus for small size articles. 223,508, 4-25-72, Cl. D49-11.
 Fresard, Marcel, to Mefina S.A. Portable sewing machine. 224,943, 10-17-72, Cl. D70-1.
 Frezzolini Electronics Inc.: *See*—
 Frezzolini, James. 224,755.
 Frezzolini, James, to Frezzolini Electronics Inc. Motion picture camera. 224,755, 9-12-72, Cl. D61-1.
 Friedman, Daniel: *See*—
 Benty, John L., and Friedman. 225,132.
 Friedman, Leonard: *See*—
 Kenney, William J. 225,330.
 Friedman, Paul: *See*—
 Cutler, Lester M., and Friedman. 225,038.
 Friedman, Stanton, L. Building block. 224,647, 8-22-72, Cl. D13-1.
 Friedrich, Horst, to NSM-Apparatebau G.m.b.H., Kommanditgesellschaft. Jukebox. 225,685, 12-26-72, Cl. D56-4.
 Friedrich, Horst, to NSM-Apparatebau G.m.b.H., Kommanditgesellschaft. Jukebox or similar article. 225,686, 12-26-72, Cl. D56-4.
 Fritz, Albert J., and A. J. Panzica, to Schwinn Bicycle Co. Bicycle seat. 223,980, 6-20-72, Cl. D90-16.
 Fromm, Jacob F., to Springfield Electrical Specialties, Inc. Bracket for automotive condensers. 223,082, 3-7-72, Cl. D8-233.
 Frost, Marie H., and R. B. Odell, to David C. Cook Publishing Co. Animal figure hand puppet. 224,325, 7-18-72, Cl. D34-2.
 Fudge, William L., to Larsen's Mfg. Co. Fire extinguisher cabinet. 224,592, 8-8-72, Cl. D16-2.
 Fuji Shashin Film Kabushiki Kaisha: *See*—
 Fukuda, Masahiro. 223,011.
 Fukuda, Masahiro. 224,350.
 Fukuda, Masahiro. 224,448.
 Fukuda, Masahiro, and Mizukawa. 223,409.
 Mizukawa, Shigeo, and Fukuda. 223,407.
 Tanaka, Yoh. 224,057.
 Fujii, Haruyuki: *See*—
 Fujii, Toshitaka and H. 222,833.
 Fujii, Toshitaka and H. Fish hook. 222,833, 1-11-72, Cl. D22-30.
 Fujimoto, Hiroji, to Fujisoku Electric Co., Ltd. Digital switch. 224,972, 10-24-72, Cl. D26-13.
 Fujisoku Electric Co., Ltd.: *See*—
 Fujimoto, Hiroji. 224,972.
 Fujita, Ryuzo. Housing for an electronic communication apparatus. 224,233, 7-11-72, Cl. D26-14.
 Fujita, Takeshi, and T. Tsuruta, to Stanley Electric Co., Ltd. Vehicle lamp. 223,281, 4-4-72, Cl. D48-32.
 Fujita, Takeshi, and T. Tsuruta, to Stanley Electric Co., Ltd. Vehicle lamp. 223,286, 4-4-72, Cl. D48-32.
 Fujita, Teiso, and M. Kikuchi, to Izumi Denki Co. Ltd. Socket for relay. 223,493, 4-25-72, Cl. D26-1.
 Fukazawa, Tsuneharu: *See*—
 Endo, Koji, and Fukazawa. 223,805.
 Fukuda, Masahiro: *See*—
 Mizukawa, Shigeo, and Fukuda. 223,407.
 Mizukawa, Shigeo, and Fukuda. 224,163.
 Fukuda, Masahiro, to Fuji Shashin Film Kabushiki Kaisha. Motion movie camera. 223,011, 2-22-72, Cl. D61-1.
 Fukuda, Masahiro, to Fuji Shashin Film Kabushiki Kaisha. Camera. 224,350, 7-18-72, Cl. D61-1.
 Fukuda, Masahiro, to Fuji Shashin Film Kabushiki Kaisha. Motion picture camera. 224,448, 7-25-72, Cl. D61-1.
 Fukuda, Masahiro, and S. Mizukawa, to Fuji Shashin Film Kabushiki Kaisha. Camera. 223,409, 4-11-72, Cl. D61-1.
 Fukuoka, Tatsuo. Sandals for children. 224,763, 9-19-72, Cl. D2-283.

Fukushima, Zennosuke: *See*—
 Tsunokawa, Kiyoo, and Fukushima. 223,664.
 Fuller Brush Co., The: *See*—
 Gamble, William L. 223,987.
 Fuller, Darrell C., to Clark Equipment Co. Combination steering post and instrument panel. 222,963, 2-15-72, Cl. D14-6.
 Fullington, William H.: *See*—
 Malsak, Melvin O., and Fullington. 224,059.
 Fumey, Aime: *See*—
 Lehmann, Andre, and Fumey. 223,857.
 Funato, Toshiaki, Y. Katsuzaki, and K. Ito, to Brother Kogyo Kabushiki Kaisha. Typewriter casing. 224,942, 10-17-72, Cl. D64-11.
 Funkhouser, Richard L.: *See*—
 Kaufman, James C., and Funkhouser. 223,963.
 Funtime Products, Inc.: *See*—
 Strayer, Lawrence H., and Pratt. 225,542.
 Furlani, Walter: *See*—
 Davis, Myron F., and Furlani. 224,320.
 Furno, Harold R. Step stool. 224,832, 9-26-72, Cl. D15-8.
 Fusco, Frank C., to Louis Marx & Co., Inc. Toy farm house. 224,429, 7-25-72, Cl. D34-15.
 Futorian Corp.: *See*—
 Winrow, Thomas. 224,862.
 Winrow, Thomas. 224,869.
 Winrow, Thomas. 224,871.
 Winrow, Thomas. 225,142.
 Winrow, Thomas. 225,145.
 Winrow, Thomas. 225,602.
 Fyfield, Rodney W.: *See*—
 Penney, Richard H., and Fyfield. 223,832.
 GAF Corp.: *See*—
 Camuso, Ernest. 223,550.
 Matwey, Paul. 225,279.
 G. J. Furniture Co., Inc.: *See*—
 Woods, David. 223,616.
 GTE Automatic Electric Laboratories, Inc.: *See*—
 Janda, George M. 225,233.
 GTE Sylvania Inc.: *See*—
 Andesse, Emery G., Vetere, and Westlund. 225,565.
 Brooks, Philip L., Davis, Lash, and Orberg. 225,647.
 Brooks, Philip L., Reynolds, Penwarden, and Gajwani. 225,584.
 Dixon, William R. 224,428.
 Gable, Anthony: *See*—
 Leitch, Alexander L., and Gable. 224,859.
 Leitch, Alexander L., and Gable. 224,860.
 Gaffney, James F. Gun support. 224,084, 7-4-72, Cl. D8-235.
 Gahn, Lois. Mirror. 224,899, 10-3-72, Cl. D86-10.
 Gallstyn Co., The: *See*—
 Oculin, Morton. 224,256.
 Galang, Gerald J., D. E. Rienhardt, and G. G. Weaver, to American Data Systems, Inc. Hood for electrical connector. 224,740, 9-12-72, Cl. D26-1.
 Galarneau, Jean-Paul. Hand supported rear view mirror. 224,576, 8-1-72, Cl. D86-10.
 Gale, John A., J. V. Young, and W. K. Menke, to Learning Products, Inc. Juvenile play structure or similar article. 224,029, 6-27-72, Cl. D34-5.
 Gallagher, Edward L., R. W. Limacher, and R. S. Inlow, to A-T-O Inc. Fire alarm. 225,379, 12-5-72, Cl. D72-1.
 Gamble, William L., to The Fuller Brush Co. Electric scissors. 223,987, 6-27-72, Cl. D8-61.
 Game Time, Inc.: *See*—
 Ewers, Ronald L. 224,246.
 Ewers, Ronald L. 224,326.
 Wormser, Robert S. 224,213.
 Wormser, Robert S. 224,214.
 Wormser, Robert S. 224,293.
 Gammons, David L., and C. A. Peterson, to Westinghouse Electric Corp. Domestic refrigerator case. 225,377, 12-5-72, Cl. D67-3.
 Gandini, Sergio. Floor lamp. 223,546, 5-2-72, Cl. D48-20.
 Gardella, John M., A. Clavattoni, and E. E. Hoyt, to Pennwalt Corp. Dental unit. 224,536, 8-1-72, Cl. D24-1.
 Gardella, John M., A. Clavattoni, and E. E. Hoyt, to Pennwalt Corp. Dental tray. 224,617, 8-15-72, Cl. D24-1.
 Gardella, John M., A. Clavattoni, and E. E. Hoyt, to Pennwalt Corp. Cabinet for a dental unit. 224,618, 8-15-72, Cl. D24-1.
 Gardella, John M., A. Clavattoni, and E. E. Hoyt, to Pennwalt Corp. Cabinet for a dental unit. 224,619, 8-15-72, Cl. D24-1.
 Gardella, John M., A. Clavattoni, and E. E. Hoyt, to Pennwalt Corp. Dental cup filler. 224,620, 8-15-72, Cl. D24-1.
 Gardiner, Robert F. Metal detector. 224,441, 7-25-72, Cl. D52-6.
 Gardisette International AG: *See*—
 Schroeder, Peter. 225,384.
 Gardner, Derek, to Tyrrell Racing Organisation Ltd. Model racing car. 225,354, 12-5-72, Cl. D34-15.
 Gardner, Inc.: *See*—
 Gardner, Stewart E., Bibeau, and Bonfield. 225,159.
 Gardner, Stewart E., R. J. Bibeau, and C. B. Bonfield, to Gardner, Inc. Trailer. 225,159, 11-21-72, Cl. D14-3.
 Garfinkle, Marvin E., R. E. Schmeck, and E. W. Tangard, to Pitney-Bowes, Inc. Postal scale. 223,009, 2-22-72, Cl. D52-10.
 Garnett, Bobby J., to Hanson-Hawk, Inc., a division of Orion Industries, Switch. 224,540, 8-1-72, Cl. D26-13.
 Garrett, Arthur R. Articulated tandem wheeled vehicle. 225,348, 12-5-72, Cl. D34-15.
 Garrison, Cld. Seat for a hobby horse or the like. 223,717, 5-30-72, Cl. D34-15.
 Garrison, Cld. Seat for a hobby horse or the like. 223,718, 5-30-72, Cl. D34-15.
 Garrity, Paul G.: *See*—
 Bacevius, Joseph G. 225,263.
 Gaskins, Robert J. Combined mud flap support and tail light holder for trucks. 224,099, 7-4-72, Cl. D14-8.
 Gaston, Cantin, to Twinnak Ltd. Container for liquids. 225,618, 12-26-72, Cl. D9-175.
 Gates, Robin Ian Yeoman. Livestock branding device. 223,258, 4-4-72, Cl. D30-43.
 Gaudio, John P. Guitar body. 224,050, 6-27-72, Cl. D56-1.
 Gay, Derek J.: *See*—
 Miller, Anthony D., Gay, and Smedley. 223,167.
 Geiger, Friedrich: *See*—
 Wilfert, Karl, and Geiger. 222,879.
 Geiser, William. Smoking pipe or similar article. 223,311, 4-4-72, Cl. D85-8.
 Gelardi, Joseph T., to American Technical Industries, Inc. Branch for an artificial tree or similar article. 223,497, 4-25-72, Cl. D29-1.
 Gelardi, Joseph T., to American Technical Industries, Inc. Christmas tree. 224,598, 8-8-72, Cl. D29-1.
 Gelles, Daniel: *See*—
 Kamins, Seymour, Gelles, and Horodecky. 223,699.
 Kamins, Seymour, Gelles, and Horodecky. 223,700.
 Gemini International Corp.: *See*—
 Sugihara, John Y. 225,667.
 Potsdam, Jay A. 225,576.
 Genaro, Donald M.: *See*—
 Ericsson, James W., and Genaro. 223,815.
 Genaro, Donald M., to The Singer Co. Sewing machine frame. 223,057, 3-7-72, Cl. D70-1.
 Genaro, Donald M., to The Singer Co. Sewing machine frame or similar article. 223,058, 3-7-72, Cl. D70-1.
 Genaro, Donald M., to The Singer Co. Sewing machine frame. 223,059, 3-7-72, Cl. D70-1.
 Genaro, Donald M., to The Singer Co. Sewing machine attachment for making buttonholes or the like. 223,060, 3-7-72, Cl. D70-2.
 Genaro, Donald M., to The Singer Co. Sewing machine or similar article. 224,809, 9-10-72, Cl. D70-1.
 Genaro, Donald M., and R. R. Stokes, to Bell Telephone Laboratories, Inc. Table. 223,005, 2-22-72, Cl. D33-14.
 Genaro, Donald M., R. A. Holmes, and S. E. Seretny, said Genaro, and said Seretny, assignors to Bell Telephone Laboratories, Inc.: said Holmes assignor to Western Electric Co. Outdoor telephone enclosure. 224,416, 7-25-72, Cl. D26-14.
 Genaro, Donald M., T. J. Kelly, J. N. McGarvey, and R. R. Stokes, to Bell Telephone Laboratories, Inc. Videotelephone transceiver. 224,117, 7-4-72, Cl. D26-14.
 Genaro, Donald M., J. N. McGarvey, and F. A. Rosebrock, to Bell Telephone Laboratories, Inc. Video telephone unit. 225,113, 11-14-72, Cl. D26-14.
 Genca, Samuel R.: *See*—
 Golden, Henry, and Genca. 223,302.
 General Aviation Electronics, Inc.: *See*—
 Hauser, Jon W. 223,958.
 General Educational Technology Corp.: *See*—
 Shirley, Carl S. 223,013.
 General Electric Co.: *See*—
 Anderson, Eldon L., Jr. 223,394.
 Anderson, Eldon L., Jr. 225,125.
 Anderson, Eldon L., Jr. 225,447.
 Anderson, Walter C. 223,623.
 Binzer, Thomas J., Schmitt, and Woodling. 223,641.
 Cook, William J. 222,862.
 Cook, William J. 225,229.
 Culbertson, Richard. 225,276.
 Daher, Theodore G. 223,946.
 Daher, Theodore G. 223,947.
 Daher, Theodore G. 223,948.
 Daher, Theodore G. 224,747.
 Daher, Theodore G. 224,748.
 Daher, Theodore G. 224,750.
 Dochterman, Richard W. 225,334.
 Dochterman, Richard W. 225,335.
 Donnelly, William B. 223,052.
 Healy, Colin M., and Felske. 225,360.
 Johnson, Carl N. 223,852.
 Johnson, Carl N. 223,853.
 Johnson, Carl N., and Stapleton. 223,851.
 Judson, William V. 223,627.
 Kainass, Andrew. 224,235.
 Seager, Richard H. 224,323.
 Shalvoy, John C. 223,883.
 Stewart, Earl K. 225,013.
 General Fireproofing Co., The: *See*—
 Allen, Davis B. 223,371.
 Allen, Davis B. 223,372.
 General Foam Plastics Corp.: *See*—
 Chase, Ascher. 225,243.
 General Foods Corp.: *See*—
 Laughlin, Clayton A. 223,847.
 Stahel, Alwin J., II. 224,425.

General Mills Fun Group, Inc.: *See*—
Meth, Harry. 223,162.
Meth, Harry. 223,613.
Meth, Harry, and Greenberg. 223,676.
Meth, Harry, and Lake. 223,164.
Meth, Harry, and Lake. 223,615.
Meth, Harry, and Lake. 223,936.
Meth, Harry, and Lake. 224,239.
General Mills, Inc.: *See*—
Manderfield, Ellen B. 223,960.
Manderfield, Ellen B. 224,626.
General Motors Corp.: *See*—
Chandler, Maurice P., and Porter. 224,006.
General Signal Corp.: *See*—
Sanger, David M., and Toeppen. 225,380.
General Tire & Rubber Co., The: *See*—
Smith, Sidney Z. 225,171.
Gensemer, Jack P. Dwelling structure. 223,748, 6-6-72, Cl. D13—1.
Gentzen, Ronald F., to Lowrance Electronics Mfg. Corp. Sign. 224,762, 9-12-72, Cl. D96—12.
Geoform Designs, Inc.: *See*—
Locas, Bernard. 225,596.
George, Odean F.: *See*—
Crew, Robert T., and George. 223,897.
Geotell, Inc.: *See*—
Muehlberger, Erich, and De La Vega. 223,986.
Geraci, James L., to Xomox Corp. Myringotomy tube inserter. 224,672, 8-22-72, Cl. D83—12.
Gerlach, John R., to Embart Corp. Door lever. 222,874, 1-25-72, Cl. D8—162.
Gerlach, John R., to Embart Corp. Door lever. 222,875, 1-25-72, Cl. D8—162.
Gerlach, John R., to Embart Corp. Door lever. 222,876, 1-25-72, Cl. D8—162.
Gerlach, John R., to Embart Corp. Door lever. 222,877, 1-25-72, Cl. D8—162.
Gerlach, John R. Door handle and lock plate unit. 223,745, 6-6-72, Cl. D8—170.
Gerlach, John R. Door handle and lock plate unit. 223,989, 6-27-72, Cl. D8—170.
Gerlach, John R. Door handle and lock plate unit. 223,990, 6-27-72, Cl. D8—170.
Gerlach, John R. Door handle and lock plate unit. 223,991, 6-27-72, Cl. D8—170.
Gerlach, John R. Door handle and lock plate unit. 223,992, 6-27-72, Cl. D8—170.
Gerli, Eugenio, to Tecno S.p.A. Armchair. 224,285, 7-18-72, Cl. D6—21.
Germann, John E.: *See*—
Shaper, Roger T., and Germann. 223,642.
Gertler, Bernard H. Dune buggy display. 223,192, 3-28-72, Cl. D14—6.
Ghyczy, Peter. Chair. 223,535, 5-2-72, Cl. D15—1.
Glandomenico, Nicholas, to Acme General Corp. Combined door knob and rose. 225,393, 12-12-72, Cl. D8—143.
Glandomenico, Nicholas, to Acme General Corp. Combined door knob and rose. 225,394, 12-12-72, Cl. D8—143.
Gibson, Richard D., J. N. McGarvey, and K. B. Woodard, to Bell Telephone Laboratories, Inc. Telephone mounting shelf. 222,990, 2-22-72, Cl. D13—1.
Gibson, Sidney. Combined reflector and housing for table lamp or the like. 223,387, 4-11-72, Cl. D48—20.
Gielda, Charles J. Bobble. 224,689, 8-29-72, Cl. D36—8.
Gigante, Giuseppe. Baby seat. 225,004, 10-31-72, Cl. D15—1.
Gilbert & Barker Mfg. Co.: *See*—
Harris, Billy J., Vergamini, and Yagelowich. 225,567.
Hartsell, Hal C., and Tompkins. 223,289.
Gilbert, Clifford W. Guitar. 224,154, 7-4-72, Cl. D56—901.
Gilbert, Donald E., to Gilbert Electronics, Inc. Electrocutting trap for flying insects. 225,628, 12-26-72, Cl. D22—19.
Gilbert, Donald E., to Gilbert Electronics, Inc. Insect electrocutor. 225,629, 12-26-72, Cl. D22—19.
Gilbert, Donald E., to Gilbert Electronics, Inc. Wall-type insect electrocutor. 225,630, 12-26-72, Cl. D22—19.
Gilbert, Donald E., to Gilbert Electronics, Inc. Light attracting adhesive insect trap. 225,631, 12-26-72, Cl. D22—19.
Gilbert Electronics, Inc.: *See*—
Gilbert, Donald E. 225,628.
Gilbert, Donald E. 225,629.
Gilbert, Donald E. 225,630.
Gilbert, Donald E. 225,631.
Gifford, Ira B. and A. W. B. Nash, to Mattel, Inc. Toy truck. 222,868, 1-18-72, Cl. D34—15.
Gillespie, Earl E., W. C. Waterloo, R. L. Kennedy, and R. E. Kennedy, to Graham Engineering Corp. Jug or similar article. 223,141, 3-21-72, Cl. D9—41.
Gilllette Co., The: *See*—
Avedon, Burt S., and Hussey. 222,960.
Dorlon, Francis W., Jr. 224,852.
Hoffman, Harold C. 223,602.
Nigro, Louis V. 222,931.
Nigro, Louis V. 223,811.
Perry, Roger L. 224,479.
Perry, Roger L. 225,137.
Petrillo, Richard J. 224,997.
Poissin, Norman D. 224,481.
Tucker, James E. 223,880.
Tucker, James E., and Doblin. 225,587.
Wright, Kent M. 224,701.
Gilmour Mfg. Co.: *See*—
Gilmour, Robert A. 225,222.
Gilmour, Robert A. to Gilmour Mfg. Co., a Division of R. M. Smith, Inc. Hose nozzle. 225,222, 11-28-72, Cl. D23—34.
Gillon, Channing W., to Infotechnics, Inc. Cabinet for processing data discs. 223,096, 3-7-72, Cl. D26—5.
Gillon, Pierre C. J. Decorative building block. 223,446, 4-18-72, Cl. D18—2.
Gillstrap, Alan E. Animal shelter. 224,934, 10-17-72, Cl. D30—1.
Ginat, Jonathan. Table. 225,199, 11-28-72, Cl. D6—146.
Gonsalves, George E., and Dossio. 225,032.
Ginn, Rohn: *See*—
Viviano, Thomas R. 225,382.
Giraudet, Jean, and P., to Giropor Societe a Responsabilite Limitee. Chemin de la Paonnerie. Egg-box. 222,828, 1-11-72, Cl. D9—190.
Giraudet, Pierre: *See*—
Giraudet, Jean, and Giraudet. 222,828.
Giropor Societe a Responsabilite Limitee. Chemin de la Paonnerie: *See*—
Giraudet, Jean, and Giraudet. 222,828.
Glaberson, Martin: *See*—
Gould, Robert J., and Glaberson. 224,600.
Glaberson, Martin, to Warner-Lambert Co. Safety razor or similar article. 224,480, 7-25-72, Cl. D95—3.
Glaberson, Martin, and R. J. Gould, to Warner-Lambert Co. Hot lather dispenser. 224,600, 8-8-72, Cl. D33—30.
Gladwin, Floyd R. Trash receptacle hopper. 225,452, 12-12-72, Cl. D49—35.
Glantz, Samuel N. and M. Combined carrying bag and racket case. 223,424, 4-11-72, Cl. D87—1.
Glaser, Frederick. Shampoo chair. 223,443, 4-18-72, Cl. D15—3.
Glaser, Frederick. Combined chair and hair dryer. 223,444, 4-18-72, Cl. D15—3.
Glaser, Frederick. Hair dryer. 223,480, 4-18-72, Cl. D86—10.
Glaser, Roger M. Radiotelemetry transmitter for monitoring heart rate. 223,877, 6-13-72, Cl. D83—1.
Glass, Marvin, & Associates: *See*—
Barlow, Gordon A. 223,377.
Morrison, Howard J., and Glass. 224,124.
Glisson, James T., to Motivation Systems, Inc. Solar system teaching unit. 223,492, 4-25-72, Cl. D25—1.
Glisson, James T., to Motivation Systems, Inc. Programmed psychomotor learning laboratory. 225,519, 12-19-72, Cl. D13—1.
Global Systems Design Corp.: *See*—
Binks, Ronald. 223,929.
Glovemakers, Inc.: *See*—
Meyer, Rudi P. 224,853.
Goettl, Adam D. Louvered enclosure for air conditioning equipment and the like. 224,011, 6-27-72, Cl. D23—139.
Goettl, Adam D. Louvered enclosure for air conditioning equipment and the like. 224,012, 6-27-72, Cl. D23—139.
Goettl, Adam D. Louvered enclosure for air conditioning equipment and the like. 224,013, 6-27-72, Cl. D23—139.
Goforth, David L. Fishing lure. 223,194, 3-28-72, Cl. D22—27.
Goings, Hartford, E. Disposable food serving tray. 222,852, 1-18-72, Cl. D9—185.
Gold, Robert: *See*—
Proffain, Richard, and Gold. 224,971.
Gold Seal Co.: *See*—
Schafer, Harold. 225,155.
Golden, Henry, and S. R. Genca, to Tray-X Corp. Paint tray. 223,302, 4-4-72, Cl. D64—18.
Goldfarb, Barbara L. Hat. 222,930, 2-8-72, Cl. D2—239.
Goldfeder, Melvin A., to Swank, Inc. Shoe shine box or similar article. 223,314, 4-4-72, Cl. D86—11.
Goldstein, Gerald, to Babysitting Proprietary Ltd. Bathing support for infants and the like. 223,263, 4-4-72, Cl. D33—21.
Goldstein, Samuel: *See*—
Raab, David, and Goldstein. 223,545.
Gomel, Richard H., F. L. Ogar, and G. R. Tomlach, to Miles Laboratories, Inc. Pharmaceutical tablet. 225,627, 12-26-72, Cl. D16—3.
Gonsalves, George E., and F. Dossio. Overhead conveyor bracket. 225,032, 10-31-72, Cl. D55—1.
Gonshoret, Milton, to International Silver Co. Spoon or similar article of flatware. 225,454, 12-12-72, Cl. D54—12.
Gonzalez, Ralph A. Portable picnic cart. 223,148, 3-21-72, Cl. D14—3.
Gonzalez, Ralph A. Portable baseball cart. 223,149, 3-21-72, Cl. D14—3.
Gonzalez, Ralph A. Portable fishing cart. 223,150, 3-21-72, Cl. D14—3.
Good, Wayne W., to Harter Corp. Decorative cap for use on a chair back support upright or the like. 225,504, 12-19-72, Cl. D6—192.
Goodman, Harold. Toy airplane. 223,770, 6-6-72, Cl. D34—15.
Goodrich, B. F. Co., The: *See*—
Floyd, Robert W. 224,573.
Floyd, Robert W. 224,581.
Skerl, Richard J. 224,579.
Skerl, Richard J. 224,580.
Goodyear Aerospace Corp.: *See*—
Alexander, William C., and Nebiker. 225,464.
Ruble, Fredrick R. 223,003.
Goodyear Tire & Rubber Co., The: *See*—
Granger, Dennis B., and Fetty. 223,426.
Hammond, Philip S. 224,577.
McKissick, Lance R., and Wilson. 223,317.
Sayers, Russell N., and Roberts. 225,136.
Vohs, John K. 223,316.

Gordan, Donald W. Prefabricated roof. 224,702, 9-5-72, Cl. D13—1.
Gordon, Douglas, to Briggs & Stratton Corp. Muffler. 224,170, 7-4-72, Cl. D77—1.
Gorelick, Marvin. Chair or the like. 224,189, 7-11-72, Cl. D6—20.
Gorman, Dewitt Y. Entertainment center. 223,764, 6-6-72, Cl. D28—14.
Goto, Kazuo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera flash bracket. 223,513, 4-25-72, Cl. D61—1.
Goto, Kazuo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera focussing handle. 224,164, 7-4-72, Cl. D61—1.
Goto, Kenjiro, to Mansel Kogyo Kabushiki Kaisha. Cigarette lighter. 224,339, 7-18-72, Cl. D48—27.
Gottlieb, Jerrold H.: *See*—
Molnoff, Daniel D., and Gottlieb. 223,467.
Gottlieb, Robert, to Argo Industries Corp. Cage for a popcorn popper. 223,383, 4-11-72, Cl. D44—1.
Gould, Robert J., to Evans-Aristocrat Industries, Inc. Locking tape measure or similar article. 223,008, 2-22-72, Cl. D52—1.
Gould, Albert W. Kite. 225,349, 12-5-72, Cl. D34—15.
Gowell, Paul A. Spoon or the like. 225,680, 12-26-72, Cl. D54—12.
Grabhorn, Robert H., to Systematiks, Inc. Chair. 224,923, 10-17-72, Cl. D6—42.
Grace, W. R., & Co.: *See*—
Hart, Robert L. 224,670.
Hart, Robert L. 225,151.
Pearl, David L., Waller, and Head. 224,518.
Reid, Philip L. 225,156.
Reid, Philip L. 225,157.
Schumann, Robert W. 225,516.
Graco Inc.: *See*—
Salchow, Bernard C. 225,127.
Widmer, Stanley W. 223,039.
Graham Engineering Corp.: *See*—
Gilkesson, Earl E., Waterloo, Kennedy, R. L. and R. E. 223,141.
Graham, John F.: *See*—
Michaud, Albert J., Jr., and Graham. 224,656.
Graham, Margaret A. Knit dress or the like. 225,489, 12-19-72, Cl. D2—43.
Graham, Stanley T., and G. R. Rintoul. Drive point for explosive charge. 223,091, 3-7-72, Cl. D22—10.
Grain, William W., to Documentor Sciences Corp. Electronic machine for use in document processing. 223,361, 4-11-72, Cl. D26—5.
Gran, William A., to The Vendo Co. Cigarette vending machine. 223,957, 6-20-72, Cl. D52—3.
Grange, Kenneth T. Nighlglam, and C. A. Harrison, to Sears, Roebuck and Co. Sewing machine. 225,574, 12-19-72, Cl. D70—1.
Granger, Dennis B., and H. D. Fetty, to Goodyear Tire & Rubber Co. Tire. 223,426, 4-11-72, Cl. D90—20.
Granta Corp.: *See*—
Wyman, Dennis G., and Averitt. 225,420.
Graser, Earl J., to Olinkraft, Inc. Bottle carton. 224,204, 7-11-72, Cl. D9—176.
Graser, Earl J., to Olinkraft, Inc. Bottle carton. 224,205, 7-11-72, Cl. D9—176.
Graversen, Niels P. G.: *See*—
Jensen, Jens E. G., and Graversen. 223,797-801.
Gray, Arthur S. Utility table. 223,163, 3-21-72, Cl. D33—14.
Gray, Bernard N., and J. W. Burke, to Life Support Equipment Corp. Face plate for spirometer medical apparatus. 225,469, 12-12-72, Cl. D83—1.
Gray, Geoffrey T.: *See*—
Boudouris, Angelo, and Gray. 225,375.
Gray, Geoffrey T., to Eprad Inc. Electric heater housing. 223,918, 6-20-72, Cl. D23—123.
Gray, Laverne E., to Lone Star Container Corp. Package dispensing container. 224,692, 8-29-72, Cl. D52—2.
Gray Mfg. Co., Inc.: *See*—
Craft, Roger L. 223,772.
Great Western Construction, Ltd.: *See*—
Deets, John L. 223,106.
Green, Homer T., to The Parker Pen Co. Fountain pen. 223,130, 3-14-72, Cl. D74—17.
Green, Joseph, to Joseph Green. Toy xylophone. 224,936, 10-17-72, Cl. D34—15.
Green, Lawrence E., and W. G. McDermott, to McDermott & Green, Inc. Holder for flower stems or the like. 225,424, 12-12-72, Cl. D35—3.
Green, Willis E. Combined tire tool and double warning lamp. 225,562, 12-19-72, Cl. D48—20.
Greenberg, Allen: *See*—
Meth, Harry, and Greenberg. 223,676.
Greene, Robert L., to Beckman Instruments, Inc. Device for electrochemical analysis. 225,005, 10-31-72, Cl. D16—2.
Greger, Richard W.: *See*—
Balbach, Sara L., and Greger. 225,309.
Gregor, Vaughn. Conveyor bucket. 225,128, 11-14-72, Cl. D55—1.
Greiner Electronic AG: *See*—
Wiedmann, Gerhard. 225,100.
Gretag Aktiengesellschaft: *See*—
Muchenberger, Ernest. 224,844.
Greubel, Jurgen, to Braun A.G. Hair dryer. 223,975, 6-20-72, Cl. D86—10.
Greubel, Jurgen, to Braun Aktiengesellschaft. Packaged educational electronic toy kit. 223,261, 4-4-72, Cl. D25—1.
Gribble, Joseph J., D. J. Arneberg, and D. E. Scott, to Square D Co. Electrical switch. 223,452, 4-18-72, Cl. D26—13.
Griese, Elmer W., Jr., to National Can Corp. Carrying handle for a container or the like. 224,093, 7-4-72, Cl. D8—291.
Griffin, Donald S.: *See*—
Duern, Gordon L., and Griffin. 224,691.
Griffin, Donald S., to Electrohome Ltd. Television receiver. 224,159, 7-4-72, Cl. D56—4.
Griffin Laboratories Inc.: *See*—
Kirchner, Fredric M., and Isen. 223,010.
Griffin, Roy D., Sr. Child's toy gun. 225,547, 12-19-72, Cl. D34—15.
Griffith, Robert L. Carton stacking bracket for pallets or the like. 222,903, 2-1-72, Cl. D8—233.
Griffith, Robert L. Carton stacking bracket for pallets or the like. 222,904, 2-1-72, Cl. D8—233.
Grigsby, Gilbert R., to Lubrastart International. Fluid dispensing unit for priming engines or the like. 225,282, 11-28-72, Cl. D77—1.
Grob, Curt H., Jr. Dwelling. 224,679, 8-29-72, Cl. D13—1.
Grob, Curt H., Jr. Dwelling. 224,779, 9-19-72, Cl. D13—1.
Grosfillex, Raymond, to Societe Grosfillex, Societe a Responsabilite Limitee. Chair. 223,569, 5-9-72, Cl. D15—1.
Grosfillex, Raymond, to Societe Grosfillex, Societe a Responsabilite Limitee. Chair. 224,192, 7-11-72, Cl. D6—70.
Grosfillex, Raymond, to Societe Grosfillex, Societe a Responsabilite Limitee. Chair. 224,193, 7-11-72, Cl. D6—70.
Growth International Industries Corp.: *See*—
Yates, George, Jr. 222,981.
Grube, Clifford E., to Associated Mills, Inc. Portable hand steamer. 223,856, 6-13-72, Cl. D49—13.
Grube, Clifford E., and R. J. Stern, to Associated Mills, Inc. Steam hair curler housing. 223,976, 6-20-72, Cl. D86—10.
Gruber, Alvin. Samovar or the like. 223,385, 4-11-72, Cl. D44—26.
Gruett, Donald G., to Oil-Rite Corp. Liquid level gauge or similar article. 223,776, 6-6-72, Cl. D52—6.
Gruskos, George F. Coin bank. 225,656, 12-26-72, Cl. D34—11.
Guidi, William R., to Digital Technology Corp. Digital tape recorder. 223,834, 6-13-72, Cl. D26—14.
Guldstrand, Robert C. Telephone accessory. 224,933, 10-17-72, Cl. D26—14.
Gulf + Western Industries, Inc.: *See*—
Miles, John R. 225,082.
Gulotta, Gerald, to Block China Corp. Plate. 225,430, 12-12-72, Cl. D44—15.
Gulotta, Gerald, to Block China Corp. Saucer. 225,431, 12-12-72, Cl. D44—9.
Gulotta, Gerald, to Block China Corp. Cup. 225,432, 12-12-72, Cl. D44—9.
Gunfaus, Juan, to Mery S.A. Combined pail and mop wringer. 222,892, 1-25-72, Cl. D49—29.
Guthrie, James H. Game board. 225,539, 12-19-72, Cl. D34—5.
Gutierrez, Julian. Phonograph record holder. 225,097, 11-14-72, Cl. D6—135.
Hais, Robert V., to The Singer Co. Oil container. 222,939, 2-8-72, Cl. D23—5.
Hadco Products, Inc.: *See*—
Bankert, Dean W., and Wilson. 225,676.
Hadlow, David M., to The Stanley Works, Drapery rod. 224,081, 7-4-72, Cl. D8—208.
Haeger Potteries, Inc., The: *See*—
Kaelke, Edwin K. 224,120.
Kaelke, Edwin K. 224,414.
Hafer, Paul R., to Boyertown Auto Body Works. Electric bus body. 224,002, 6-27-72, Cl. D14—3.
Haffenden, W. W., Ltd.: *See*—
Wilson-Haffenden, Philip A. 224,385.
Wilson-Haffenden, Philip A. 224,386.
Hagberg, Calvin A., to Litton Systems, Inc. Microwave oven. 224,723, 9-5-72, Cl. D81—4.
Hagberg, Calvin A., to Litton Systems, Inc. Microwave oven. 224,724, 9-5-72, Cl. D81—4.
Hagberg, Calvin A., to Litton Systems, Inc. Microwave oven. 224,725, 9-5-72, Cl. D81—4.
Hagberg, Calvin A., to Litton Systems, Inc. Microwave oven. 224,726, 9-5-72, Cl. D81—4.
Hait, Paul W.: *See*—
Skinner, James R., Uitz, and Hait. 225,181.
Haley, Dwight L., to Ferro Corp. Combined reflective highway lane divider and road marker. 225,087, 11-7-72, Cl. D72—1.
Hall, Christopher. Fiberglass reinforced polyester housing structure. 223,486, 4-25-72, Cl. D13—901.
Hall, Christopher. Sectional panel element of a fiberglass reinforced polyester housing structure. 224,999, 10-31-72, Cl. D13—1.
Halloran, William X. Orthopedic drill guide target. 223,875, 6-13-72, Cl. D83—1.
Halopoff, William E., to FMC Corp. All terrain vehicle. 223,817, 6-13-72, Cl. D14—3.
Halpern, Arthur, to M. D. Sales Co., Inc. Pin wheel toy or similar article. 224,331, 7-18-72, Cl. D34—15.
Halpern, Arthur, to M. I. Sales, Inc. Building toy or similar article. 225,016, 10-31-72, Cl. D34—15.
Halpern, Arthur. Pin wheel toy or similar article. 225,549, 12-19-72, Cl. D34—15.
Halter, Dale F. Bow string drawing and releasing device. 225,634, 12-26-72, Cl. D22—99.
Hamburg, Henry F., and T. R. Fowler. Magnetic soap holder. 223,501, 4-25-72, Cl. D33—25.

Hames, Lester D. Ear covering. 224,583, 8-8-72, Cl. D42-259.
Hamilton-Skotch Corp., The: See—
White, Robert A. 222,890.
Hammer, Leon W. Boot holder or similar article. 224,866, 10-3-72, Cl. D6-116.
Hammermill Paper Co.: See—
Kuenster, Kenneth. 223,041.
Hammond, Philip S., to The Goodyear Tire & Rubber Co. Tire. 224,577, 8-1-72, Cl. D80-20.
Hamond, Jack M. Bumper air scoop. 223,105, 3-14-72, Cl. D14-6.
Hampton Engineering Co.: See—
Flynn, Daniel M., Bandoski, and Clow. 224,228.
Flynn, Daniel M., Bandoski, and Clow. 224,232.
Flynn, Daniel M., Bandoski, and Clow. 225,531.
Flynn, Daniel M., Bandoski, and Clow. 225,532.
Hanakata, Takamitsu: See—
Anzai, Shiro, Murata, Nishikawa, and Hanakata. 223,865.
Anzai, Shiro, Murata, Nishikawa, and Hanakata. 224,116.
Hanamura, Kenji, to Tancho Co., Ltd. Bottle. 223,997, 6-27-72, Cl. D9-157.
Hanamura, Kenji, to Tancho Co., Ltd. Bottle. 225,617, 12-26-72, Cl. D9-169.
Hancock, Glen C., and W. T. Young, to Shoney's South, Inc. Building structure. 223,660, 5-23-72, Cl. D13-91.
Hancock, Glen C., and W. T. Young, to Shoney's South, Inc. Food bar. 224,171, 7-4-72, Cl. D80-2.
Hancock, John L., to Mastercrafters Clock Corp. Clock. 224,551, 8-1-72, Cl. D42-7.
Handy Anne, Inc.: See—
Searcy, Anne M. 222,913.
Hann, Inc.: See—
Hann, Lloyd C., and Dailey. 222,839.
Hann, Lloyd C., and D. E. Dailey, to Hann, Inc. Riding mower. 222,839, 1-11-72, Cl. D40-1.
Hanson-Hawk, Inc.: a division of Orion Industries: See—
Garnett, Bobby J. 224,540.
Hanson, Thomas E., and J. E. Jolliffe, to Proctor-Sillex Inc. Combined toaster and oven or the like. 223,066, 3-7-72, Cl. D81-10.
Hardesty, Patrick T. Transfer game puzzle. 225,543, 12-19-72, Cl. D34-15.
Harding, Earl W. Uncoupling device for toy railroad cars. 224,975, 10-24-72, Cl. D34-15.
Hardman, Von A. Horse barn. 225,103, 11-14-72, Cl. D13-1.
Hardman, Von A. Horse barn. 225,104, 11-14-72, Cl. D13-1.
Harlick, Robert M.: See—
Corn, Theodore A., and Harlick. 223,223.
Harman-Kardon, Inc.: See—
Levow, Lawrence. 225,457.
Yurdin, Carl. 224,157.
Yurdin, Carl. 224,158.
Yurdin, Carl. 224,262.
Yurdin, Carl. 224,263.
Harmon, Theodore S., Jr. Motorcycle saddle bag. 224,074, 6-27-72, Cl. D90-3.
Harper, Robert T., Jr.: See—
Rangel, George G., and Harper. 223,102.
Harrell, Vaughn R. Fishing rod handle. 223,826, 6-13-72, Cl. D22-23.
Harris, Billy J., P. L. Vergamini, and E. T. Yagelowich, to Gilbert & Barker Mfg. Co. Meter readout unit. 225,567, 12-19-72, Cl. D52-6.
Harris, Ewell J. Fish lures. 222,998, 2-22-72, Cl. D22-27.
Harris, Ewell J. Fish lure. 223,354, 4-11-72, Cl. D22-27.
Harris, Roger J. Hood ornament for automobile. 225,524, 12-19-72, Cl. D14-18.
Harrison, Charles A.: See—
Nishigami, Teichi, and Harrison. 224,815.
Harrison, Clarence E. Bath room cabinet. 224,995, 10-31-72, Cl. D6-127.
Harrison, Francis L.: See—
Kamrath, Richard H., Harrison, and Bauer. 222,855.
Harrison, Larry, to Xerox Corp. Reaction testing device. 225,643, 12-26-72, Cl. D25-1.
Harrison, Larry, to Xerox Corp. Suction mounting device. 225,681, 12-26-72, Cl. D54-13.
Harrison, Larry D., and R. E. Kalvitis, to Xerox Corp. Acoustic coupler. 224,025, 6-27-72, Cl. D26-14.
Harrison, Robert E., to Hoerner-Waldorf Corp. Shopping bag. 225,311, Cl. 12-5-72, Cl. D9-249.
Hart, Robert L., to W. R. Grace & Co. Garment hanger. 224,070, 8-22-72, Cl. D80-8.
Hart, Robert L., to W. R. Grace & Co. Garment hanger. 225,151, 11-21-72, Cl. D6-255.
Hart, Walter R., to The Union Fork and Hoe Co. Too head for a lawn rake. 223,794, 6-13-72, Cl. D8-13.
Harter Corp.: See—
Good, Wayne W. 225,504.
Hartley, Robert B., to The Corneliuss Co. Semi-frozen product dispenser, or similar article. 223,185, 3-21-72, Cl. D94-3.
Hartley, Robert B., to The Corneliuss Co. Beverage dispenser. 223,648, 5-16-72, Cl. D94-3.
Hartley, Robert B., to The Corneliuss Co. Beverage dispenser. 223,649, 5-16-72, Cl. D94-3.
Hartley, Robert B., to The Corneliuss Co. Semifrozen juice dispenser or similar article. 223,890, 6-13-72, Cl. D94-3.
Hartman, Paul V.: See—
Johnson, William K., and Hartman. 223,220.
Hartsell, Hal C., Jr., and D. D. Tompkins, to Gilbert & Barker Mfg. Co. Gasoline dispenser island. 223,289, 4-4-72, Cl. D52-2.

Hartz, George R., to Berkey/Colortran Mfg., Inc. Combined battery pack and charger unit. 224,118, 7-4-72, Cl. D26-15.
Harvey, James I., Jr. Automotive vehicle body. 223,103, 3-14-72, Cl. D14-3.
Harville, James M.: See—
Harville, Walter H., and J. M. 224,009.
Harville, Walter H., and J. M. Fishing worm. 224,009, 6-27-72, Cl. D22-27.
Harzmann, Wolfgang. Spinning toy. 224,743, 9-12-72, Cl. D34-15.
Hassinger, Donald F., to Pure Stat Corp. Water faucet attachment for improving the taste of drinking water. 222,860, 1-18-72, Cl. D23-35.
Hastings, Raymond I., to Professional Sports Marketing, Inc. Magazine rack. 224,198, 7-11-72, Cl. D6-184.
Hatibovich, Suvar, M. Hot and R. Combined compact and coin container. 224,071, 6-27-72, Cl. D86-10.
Hattori, Tadashi: See—
Takagi, Nobuyoshi, and Hattori. 223,603.
Hauser, Jon W., to General Aviation Electronics, Inc. Glide-slope indicator. 223,958, 6-20-72, Cl. D52-6.
Hauser, Jon W., to Elkay Mfg. Co. Sink. 224,533, 8-1-72, Cl. D23-62.
Hauser, Jon W., to Elkay Mfg. Co. Water cooler top. 224,573, 8-1-72, Cl. D67-4.
Hawkins, Harold V., R. A. Dick, and E. A. Bongort, to Columbus McKinnon Corp. Pendant hoist control. 222,966, 2-15-72, Cl. D26-13.
Hawkins, Harold V., R. A. Dick, and E. A. Bongort, to Columbus McKinnon Corp. Pendant hoist control. 222,967, 2-15-72, Cl. D26-13.
Hawkins, Harold V., R. A. Dick, and E. A. Bongort, to Columbus McKinnon Corp. Pendant hoist control. 223,925, 6-20-72, Cl. D26-13.
Hawkins, John: See—
Adams, George, and Hawkins. 223,254.
Hawkinson, Paul E., Co.: See—
Hawkinson, Raymond P., Jr. 222,899.
Hawkinson, Raymond P. Tire. 223,018, 2-22-72, Cl. D90-20.
Hawkinson, Raymond P., Jr., to Paul E. Hawkinson Co. Tire. 222,899, 1-25-72, Cl. D90-20.
Hawa Drinking Fountain Co.: See—
Wright, Allen C. 223,781.
Wright, Allen C. 223,782.
Hayes, Thomas H., and G. B. Zinnbauer, to Eli Lilly and Co. Bottle. 223,334, 4-11-72, Cl. D9-45.
Haynes, Roy, to Lansing Bagnall Ltd. Control handle for industrial pallet truck. 223,242, 4-4-72, Cl. D14-6.
Hays, Kenneth S., and W. M. Werner, to AMP Inc. Die member. 224,561, 8-1-72, Cl. D54-4.
Hayward, Norman G. Cotton picking spindle. 223,679, 5-23-72, Cl. D40-1.
Hazzard, Harry I.: See—
Buckett, Wilford B., Carsello, and Hazzard. 224,811.
Head, Beverly P., Jr.: See—
Pearl, David L., Walter, and Head. 224,518.
Health & Education Services Corp.: See—
Flick, Francis S., Roberts, and Burke. 225,342.
Flick, Francis S., Roberts, and Burke. 225,343.
Health Thru Education, Inc.: See—
Beach, Barney A. 224,422.
Healthwear Underwear, Inc.: See—
Wise, Daniel. 224,078.
Healy, Colin M., and A. M. Felske, to General Electric Co. Clock or similar article. 225,360, 12-5-72, Cl. D42-7.
Hearn, Verlin A. Combined saddlebag and backrest for a motorcycle or the like. 224,675, 8-22-72, Cl. D90-3.
Heaver, Philip A. Automobile radiator cap tool. 222,849, 1-18-72, Cl. D8-21.
Heck, Daniel C., to Illinois Tool Works Inc. Insulated jumper clip. 224,405, 7-25-72, Cl. D26-1.
Heck, Daniel C., to Illinois Tool Works, Inc. Jumper clip. 224,406, 7-25-72, Cl. D26-1.
Heckathorn, Michael V., to Foresight Products, Inc. Mirror. 225,285, 11-28-72, Cl. D86-10.
Hedstrom Co.: See—
Boucher, Raymond, and Voytko. 224,374.
Voytko, Charles L. 224,079.
Voytko, Charles L. 224,872.
Heenan, Sidney A., to Amerace Esna Corp. Combined reflector and lens. 224,986, 10-24-72, Cl. D72-1.
Heggen, Larry D. Vehicle door handle shield. 225,206, 11-28-72, Cl. D8-137.
Heimann, Richard F. Data display console. 224,110, 7-4-72, Cl. D26-5.
Heinemann Electric Co.: See—
Nicol, Ronald. 223,199.
Heinle, Carl W.: See—
Batchelar, Raymond L., and Heinle. 223,338.
Heinz, H. J., Co.: See—
Saenz, Henry H. 224,509.
Heltzen, John H., and F. G. Stone. Motorcycle luggage carrier. 222,984, 2-15-72, Cl. D90-3.
Heltzen, John H., and F. G. Stone. Motorcycle luggage carrier and backrest combination. 223,070, 3-7-72, Cl. D90-3.
Hendrickson, Jack R. Automotive vehicle rear end warning light panel. 224,559, 8-1-72, Cl. D48-32.
Henes, Richard W.: See—
Hill, John E., Henes, and Dean. 224,704.
Henning, Steven A., and P. G. Miller, to American Playground Device Co. Animal figure seat for playground apparatus. 223,848, 6-13-72, Cl. D34-15.

Henning, Steven A., and P. G. Miller, to American Playground Device Co. Playground climbing bars. 225,072, 11-7-72, Cl. D34-5.
Henning, Steven A., and P. G. Miller, to American Playground Device Co. Playground climbing bars. 225,073, 11-7-72, Cl. D34-5.
Henning, Steven A., and P. G. Miller, to American Playground Device Co. Playground climbing bars. 225,344, 12-5-72, Cl. D34-5.
Henryson, L. P. Co., Inc., The: See—
Brooks, Robert. 224,990.
Herbst, George D., to Hyster Co. Self-propelled vibratory compactor. 224,781, 9-19-72, Cl. D14-3.
Herbst, Walter B.: See—
La Zar, Ralph M., and Herbst. 225,350.
Herbst, Walter B., and R. M. La Zar, to Sunbeam Corp. Clock. 224,552, 8-1-72, Cl. D42-7.
Herd, Robert J., to March Engineering Ltd. Model racing car. 223,543, 5-2-72, Cl. D34-15.
Hermann, Lawrence. Toothbrush. 223,651, 5-23-72, Cl. D4-20.
Hermann, Thomas J.: See—
Klepa, Peter P., and Hermann. 225,646.
Hermanson, Terry, to Mr. Christmas Inc. Decorative reflector for a Christmas light. 224,237, 7-11-72, Cl. D29-1.
Hernandez, Angel F. Tether toy. 224,332, 7-18-72, Cl. D34-15.
Herricht, Fred, to Boyertown Burial Casket Co. Burial casket. 223,903, 6-20-72, Cl. D19-1.
Hess, Ann M. Cordless vibrating massager or similar article. 223,418, 4-11-72, Cl. D83-1.
Hess, Roy P., to True Temper Corp. 223,606, 5-16-72, Cl. D22-25.
Hesston Corp.: See—
Adee, Raymond A., Brooks, and Anderson. 224,032.
Fell, Ferol S., Long, Wells, and Ten Eyck. 223,466.
Hestrom Co.: See—
Pierson, Raymond G., and Voytko. 225,601.
Hewlett-Packard Co.: See—
Daum, Gary R. 223,498.
White, Allen A. 223,502.
Hexacon Electric Co.: See—
Sylvester, Joseph A. 223,101.
Sylvester, Joseph A. 223,319.
Heydemann, Richard. Combined address book and magnifying lens. 223,556, 5-2-72, Cl. D97-2.
Heye, Hermann: See—
Becker, Kurt. 223,143.
Becker, Kurt. 225,210.
Heym, Rolf. Combined telescopic sight and gun mounting. 225,458, 12-12-72, Cl. D57-1.
Heyman, Herman S. Multihull boat. 224,722, 9-5-72, Cl. D71-1.
Hi-Shear Corp.: See—
Jenner, Dee L. 224,402.
Jenner, Dee L. 224,403.
Jenner, Dee L. 224,404.
Wing, George S. 223,187.
Hiatt, Wilbur L. Backup plate for a pneumatic vehicle impact bumper. 224,968, 10-24-72, Cl. D14-6.
Hiatt, Wilbur L. Pneumatic vehicle impact bumper. 224,967, 10-24-72, Cl. D14-6.
Hiatt, Wilbur L. Mounting plate for a pneumatic vehicle impact bumper. 224,968, 10-24-72, Cl. D14-6.
Hiatt, Wilbur L. Casting for a pneumatic vehicle impact bumper. 224,969, 10-24-72, Cl. D14-6.
Hikashida, Hiroshi. Numerical indicator for computers or the like. 225,068, 11-7-72, Cl. D26-5.
Higgins, Warren R. Ring. 225,367, 12-5-72, Cl. D45-10.
Hildebrand, Oliver W., to Wirecraft Mfg. Co. Support stand for an air spraying container. 224,027, 6-27-72, Cl. D33-3.
Hilger, Ronald O., to Associated Mills Inc. Hand massager. 223,876, 6-13-72, Cl. D83-1.
Hill, David L., to Leonard W. Johnson. Combined advertising cabinet and film depository. 225,600, 12-26-72, Cl. D6-167.
Hill, Frederick M., to Ranco Inc. Wall thermostat. 225,453, 12-12-72, Cl. D52-7.
Hill, John E., R. W. Henes, and W. H. Dean; said Henes and said Hill assignors to said Dean. Cover for truck bed. 224,704, 9-5-72, Cl. D14-27.
Hill, Lyman L., Jr., J. A. Odom, Jr., and N. T. Wolfe. Indicating condition controller. 224,047, 6-27-72, Cl. D52-7.
Hill, Loran R., to AMF Inc. Tricycle. 224,254, 7-11-72, Cl. D34-15.
Hillary, Edmund P.: See—
Enzel, Fred W., and Hillary. 224,850.
Hille, S., & Co. Ltd.: See—
Day, Ronald H. 225,294.
Hills, David G., to Monsanto Co. Bottle. 223,436, 4-18-72, Cl. D9-117.
Hines, Stephen P.: See—
Chandler, Jasper S., and Hines. 225,035.
Hinkle, Richard A., to Citation Mfg. Co., Inc. Golf bag cart. 223,816, 6-13-72, Cl. D14-3.
Hinman, Ronald C., to Western Gear Corp. Portable loading vestibule. 223,087, 3-7-72, Cl. D13-1.
Hirata, Reischiro, to Kabushiki Kaisha Yamashima Seikoshu. Screw. 223,560, 5-9-72, Cl. D8-267.
Hirayama, Kazuhiro, to Hitachi, Ltd. Clock radio. 222,979, 2-15-72, Cl. D42-7.
Hirschl, Paul. Suspension hook for a curtain, or the like. 225,507, 12-19-72, Cl. D8-248.

Hirsh Co., The: See—
Ferdinand, Irwin J., and Kulbersh. 223,886.
Hitachi Cable, Ltd., and Japan Power Safety Device M.F.G. Co., Ltd.: See—
Tsunokawa, Kiyoo, and Fukushima. 223,664.
Hitachi, Ltd.: See—
Hirayama, Kazuhiro. 222,979.
Kashiwagi, Tetsuo. 223,612.
Matsumoto, Rikio. 224,087.
Nishino, Seichi, Kato, and Akahori. 223,669.
Onozaki, Noboru, Hukukawa, and Yotsukura. 224,056.
Hitchcock, Arthur A., to A.C.B. Corp. Flexible strap wrench. 225,297, 12-5-72, Cl. D8-21.
Hiteco: See—
Kaufman, Fred, and Siverts. 223,152.
Hjelmgulst, Stig Gunnar. Bicycle exerciser. 224,329, 7-18-72, Cl. D34-5.
Ho, Charles W. Telephone answering machine. 225,649, 12-26-72, Cl. D26-14.
Hobbs, Dean. Truck cab. 225,624, 12-26-72, Cl. D14-3.
Hock, Donald D., to Mattel, Inc. Swing seat or the like. 224,244, 7-11-72, Cl. D34-5.
Hock, Donald D., to Mattel, Inc. Combined playground climber and support for swings or the like. 224,245, 7-11-72, Cl. D34-5.
Hock, Donald D., R. E. Feigenbaum, E. N. Korte, and W. R. Baynes, to Mattel, Inc. Playground apparatus or the like. 224,243, 7-11-72, Cl. D34-5.
Hodge, Lynn H. Rear view mirror. 223,089, 3-7-72, Cl. D14-6.
Hodge, Lynn H. Stationary car-top mirror. 223,090, 3-7-72, Cl. D14-6.
Hodge, Lynn H. Rear view mirror. 223,241, 4-4-72, Cl. D14-6.
Hodge, Lynn H. Rear view mirror. 224,299, 7-18-72, Cl. D14-6.
Hodge, Lynn H. Rear view mirror. 224,300, 7-18-72, Cl. D14-6.
Hodge, Lynn H. Periscope-type rear view mirror. 225,522, 12-19-72, Cl. D14-6.
Hoehne, George C.: See—
Catalano, Paul D., and Hoehne. 223,098.
Catalano, Paul D., and Hoehne. 224,447.
Hoerner-Waldorf Corp.: See—
Harrison, Robert E. 225,311.
Hoff, Thayer J. Animal shelter for a dog or the like. 224,684, 8-29-72, Cl. D30-1.
Hoffman, George A., Jr., to Certain-Teed Saint Gobain Insulation Corp. Faced thermal insulation batting. 225,129, 11-14-72, Cl. D59-10.
Hoffman, Harold C., to The Gillette Co. Combined bottle and dispensing closure. 223,602, 5-16-72, Cl. D9-2.
Hoffman, Lionel B., to Pitney-Bowes, Inc. Photocopy machine. 224,665, 8-22-72, Cl. D61-1.
Hoffman, William A.: See—
Sucre, Jay, and Hoffman. 223,863.
Sucre, Jay, and Hoffman. 224,784.
Hoffmann, Fritz G.: See—
Menser, William J., and Hoffmann. 223,186.
Hogarth, Albert R., and J. R. Dickson. Chemical discharge device. 224,738, 9-12-72, Cl. D22-99.
Hogencamp, Harold C.: See—
Abell, Walter L., Jr., and Hogencamp. 223,779.
Hohulin, Samuel E., and H. W. Schaefer, to National Union Electric Corp. Suction cleaner. 223,509, 4-25-72, Cl. D49-14.1.
Hojnoski, Joseph J., Jr. Hanging ornament. 225,336, 12-5-72, Cl. D29-1.
Hoke, Gilbert J., to Dunlop Tire and Rubber Corp. Tire. 222,928, 2-1-72, Cl. D90-20.
Holden, William R. Cigarette holder or similar article. 224,174, 7-4-72, Cl. D85-8.
Hollister, Harry W., and B. M. Coester. Ash tray. 223,310, 4-4-72, Cl. D85-2.
Holmes, Ralph A.: See—
Genaro, Donald M., Holmes, and Seretny. 224,416.
Holt, John E. Building. 223,441, 4-18-72, Cl. D13-1.
Holubinka, Siegmund B. Rug cleaning attachment for vacuum cleaner. 225,265, 11-28-72, Cl. D49-18.
Holzwarth, Henry A.: See—
Lopez, Ulises M., Septimus, Holzwarth, and Wark. 224,070.
Honda Giken Kogyo Kabushiki Kaisha: See—
Miyachi, Einosuke, and Aratani. 223,790.
Honerwell, Inc.: See—
Beach, Kenneth E. 225,644.
Chaffee, Robert B. 225,411.
Michaud, Albert J., and Graham. 224,656.
Quinn, Peter T. 223,780.
Quinn, Peter T. 224,055.
Honeywell Information Systems Inc.: See—
Schaus, Carl F. 224,314.
Hood, Arthur W., to Falconcraft (Aluminum) Ltd. Retaining clip for an information carrying member or similar article. 223,435, 4-18-72, Cl. D8-259.
Hooker, Russell H. Holder for pens and pictures. 224,168, 7-4-72, Cl. D74-5.
Hopkins, Patrick B., to Pilkington's Tiles Ltd. Wall tile. 224,008, 6-27-72, Cl. D18-2.
Horak, Martin S., to Vikoa, Inc. Amplifier housing. 223,368, 4-11-72, Cl. D26-14.

- Horgan, William J., Jr., to Blumcraft of Pittsburgh. Combined door handle and lock housing. 223,332, 4-11-72, Cl. D8—138.
- Horgan, William J., Jr., to Blumcraft of Pittsburgh. Combined door handle and lock housing set. 223,796, 6-13-72, Cl. D8—138.
- Hori, Jibu. Light reflecting mirror for visibility aid. 225,390, 12-12-72, Cl. D2—234.
- Horikoshi, Shuzo: *See*—
- Saito, Hiroshi, Horikoshi, Nakajima, and Yamamoto. 223,216.
- Horn, John H., to Uniflow Mfg. Co. Cover panel for a water conditioner cabinet. 225,401, 12-12-72, Cl. D23—3.
- Horodecky, Jerry: *See*—
- Kamins, Seymour, Gelles, and Horodecky. 233,699.
- Kamins, Seymour, Gelles, and Horodecky. 223,700.
- Horvath, Tibor. Self cleaning brush. 222,818, 1-4-72, Cl. D8—13.
- Hot, Murat: *See*—
- Hatibovich, Suvad, Hot, M. and R. 224,071.
- Hot, Rifat: *See*—
- Hatibovich, Suvad, Hot, M. and R. 224,071.
- Honger, Lerov G. Wheel assembly for trailers. 223,341, 4-11-72, Cl. D14—3.
- Houghtaling, Ted G. Golf club head or the like. 223,766, 6-6-72, Cl. D34—5.
- Houghtaling, Ted G. Golf club head or the like. 223,767, 6-6-72, Cl. D34—5.
- Houlihan, John T.: *See*—
- Blenkowski, James J., and Houlihan. 225,036.
- Houplain, Herve. Floodlight. 225,261, 11-28-72, Cl. D48—20.
- Houplain, Herve. Floodlight. 225,262, 11-28-72, Cl. D48—20.
- House of Commons, Inc.: *See*—
- Commans, Bryan F., and Irvin. 223,233.
- Houser, Jennifer J. Toy monkey figure. 224,417, 7-25-72, Cl. D34—2.
- Houston, Robert W., to Applied Power Industries, Inc. Tire inflation apparatus. 224,916, 10-10-72, Cl. D54—13.
- Hovar Electronics Corp.: *See*—
- Ott, James H. 223,505.
- Howard, Sol, and R. Schaaf, to Air Filters, Inc. Vacuum cleaner nozzle. 223,173, 3-21-72, Cl. D49—18.
- Howlett, James W., to Howlett Machine Works. Hydraulic jack for prestressing concrete. 225,554, 12-19-72, D41—3.
- Howlett Machine Works: *See*—
- Howlett, James W. 225,554.
- Hoyt, Earl E.: *See*—
- Gardella, John M., Clavattoni, and Hoyt. 224,536.
- Gardella, John M., Clavattoni, and Hoyt. 224,617.
- Gardella, John M., Clavattoni, and Hoyt. 224,618.
- Gardella, John M., Clavattoni, and Hoyt. 224,619.
- Gardella, John M., Clavattoni, and Hoyt. 224,620.
- Hoyt, Earl E., to Van Kyk Research Corp. Office copier. 224,351, 7-18-72, Cl. D81—1.
- Hoyt, Edwin D., to Rama Industrial Heater Co. Electric resistance heater. 225,228, 11-28-72, Cl. D23—77.
- Hubbel, Harvey, Inc.: *See*—
- Adra, Tarek B. 224,038.
- Hudspeth, Sydney, to Ivac Corp. Disposal blood pressure cuff and transducer. 224,812, 9-19-72, Cl. D83—12.
- Hudspeth, Sydney, to Ivac Corp. Disposable stethoscope transducer. 224,988, 10-24-72, Cl. R83—12.
- Huebner, Peter: *See*—
- Koenig, Gustav, Franz, and Huebner. 222,861.
- Huff, Arlen L., to Sellers Mfg. Inc. Trailer. 224,397, 7-25-72, Cl. D14—3.
- Huff, Arlen L., to Sellers Mfg., Inc. Combination trailer fender and compartment. 225,625, 12-26-72, Cl. D14—6.
- Huffman, Donald: *See*—
- Reiner, Norbert L., Huffman, and Diamond. 223,449.
- Huggins, James A., to Baxter Laboratories, Inc. Gas flowmaster. 224,604, 8-8-72, Cl. D52—6.
- Hughes Aircraft Co.: *See*—
- Klepa, Peter P., and Hermann. 225,646.
- Hughes Edward E., III, to Morrison Molded Fiber Glass Co. Upsweep bracket. 222,799, 1-4-72, Cl. D8—234.
- Hughes, James D. Marble runway novelty device. 225,247, 11-28-72, Cl. D34—15.
- Hughes, Richard J., and T. M. Steinback, to Acoustics Development Corp. Telephone booth. 223,706, 5-30-72, Cl. D13—1.
- Huley, Peter. Tricycle. 224,126, 7-4-72, Cl. D34—15.
- Humlong, Richard F., to Wald Mfg. Co., Inc. Bicycle steering post. 224,467, 7-25-72, Cl. D90—9.
- Humlong, Richard F., to Wald Mfg. Co., Inc. Bicycle steering post. 224,468, 7-25-72, Cl. D90—9.
- Humlong, Robert F.: *See*—
- Pawzat, Carlton P., and Humlong. 223,072.
- Pawzat, Carlton P., and Humlong. 223,073.
- Pawzat, Carlton P., and Humlong. 223,074.
- Pawzat, Carlton P., and Humlong. 224,696.
- Pawzat, Carlton P., and Humlong. 224,697.
- Pawzat, Carlton P., and Humlong. 224,698.
- Pawzat, Carlton P., and Humlong. 224,699.
- Humlong, Robert F., to Wald Mfg. Co., Inc. Bicycle steering post. 224,464, 7-25-72, Cl. D90—9.
- Humlong, Robert F., to Wald Mfg. Co., Inc. Bicycle steering post. 224,465, 7-25-72, Cl. D90—9.
- Humlong, Robert F., to Wald Mfg. Co., Inc. Bicycle steering post. 224,469, 7-25-72, Cl. D90—9.
- Humlong, Robert F., to Wald Mfg. Co., Inc. Bicycle steering post. 224,470, 7-25-72, Cl. D90—9.
- Humlong, Robert F., to Wald Mfg. Co., Inc. Bicycle steering post. 224,471, 7-25-72, Cl. D90—9.
- Humlong, Robert F., to Wald Mfg. Co., Inc. Bicycle steering post. 224,472, 7-25-72, Cl. D90—9.
- Humlong, Robert F., to Wald Mfg. Co., Inc. Bicycle steering post. 224,473, 7-25-72, Cl. D90—9.
- Humlong, Robert F. Rear axle kick stand. 224,819, 9-19-72, Cl. 90—18.
- Humlong, Robert F., and C. P. Pawsat, to Wald Mfg. Co., Inc. Reflective bicycle pedal. 223,075, 3-7-72, Cl. D90—14.
- Humphreys, Adolph H., to United States of America, Army. Medal or similar article. 225,536, 12-19-72, Cl. D29—19.
- Hunt-Wesson Foods, Inc.: *See*—
- Knies, Robert H. 222,988.
- Hunter, Edgar H. and M. K. Building structure or the like. 224,394, 7-25-72, Cl. D13—1.
- Hunter, George L. L. Radio cabinet. 224,156, 7-4-72, Cl. D56—4.
- Hunter, Margaret K.: *See*—
- Hunter, Edgar H. and M. K. 224,394.
- Huntwork, Kenneth W. Spark plug tester. 223,451, 4-18-72, Cl. D26—1.
- Hurkamp, Charles H., to Lockheed Aircraft Corp. Airplane. 223,869, 6-13-72, Cl. D71—1.
- Hurley, Frederick A. Combined shelf unit and game display panel. 224,772, 9-19-72, Cl. D6—130.
- Hurley, Frederick A. Dice table. 224,794, 9-19-72, Cl. D34—5.
- Hurukawa, Masaaki: *See*—
- Onozaki, Noboru, Hurukawa, and Yotsukura. 224,056.
- Husby, Donald E.: *See*—
- Breed, Charles P., Izzi, and Husby. 224,753.
- Husby, Donald E., and E. L. Izzi, to Westinghouse Electric Corp. Exterior lighting fixture. 222,810, 1-4-72, Cl. D48—31.
- Hussey, Richard A.: *See*—
- Avedon, Burt S., and Hussey. 222,960.
- Hutchinson, Bruce R., and R. N. Brooks, to Silent Glow Corp. Incinerator. 225,636, 12-26-72, Cl. D23—85.
- Hutchinson, Stanley H., to David E. Vaughn. Chair. 225,597, 12-26-72, Cl. D6—20.
- Hutchinson, Stanley H., to David E. Vaughn. Chair. 225,599, 12-26-72, Cl. D6—55.
- Huthsing, Charles K., Jr., deceased, by N. Evelyn Huthsing, executor. Bottle or similar article. 224,088, 7-4-72, Cl. D9—40.
- Huthsing, N. Evelyn: *See*—
- Huthsing, Charles K., Jr. 224,088.
- Hutton, John C.: *See*—
- Nelson, Dan, and Hutton. 223,160.
- Hydrodynamics, Inc.: *See*—
- Klob, Robert N. 224,741.
- Hymen, Ray. Musical instrument carrying case. 225,033, 10-31-72, Cl. D56—1.
- Hypro, Inc.: *See*—
- Sadler, Harry J., and Pareja. 223,686.
- Hyster Co.: *See*—
- Herbst, George D. 224,781.
- Iannone, Michael: *See*—
- Banks, George, and Iannone. 223,293.
- Ideal Toy Corp.: *See*—
- Rodemeyer, Donald J. 224,330.
- Idex, Inc.: *See*—
- Molinoff, Daniel D., and Gottlieb. 223,467.
- Igniters, Inc.: *See*—
- Matys, Stanley J. 223,771.
- Matys, Stanley J. 224,041.
- Iida, Yoshiaki: *See*—
- Yazawa, Hiroaki, and Iida. 225,412.
- Ikeda, Hitoshi, and K. Ukai. Motorcycle. 225,483, 12-12-72, Cl. D90—8.
- Illinois Tool Works Inc.: *See*—
- Edwards, Bryant. 222,961.
- Heck, Daniel C. 224,405.
- Reich, Daniel C. 224,406.
- Rychlik, Frank J. 224,727.
- Image Systems, Inc.: *See*—
- Fitzgerald, Timothy P. 224,808.
- Fitzgerald, Timothy P., Nix, and Sandeffer. 224,807.
- Imai, Shogo, to Sharp Kabushiki Kaisha. Transistor radio. 223,860, 6-13-72, Cl. D56—4.
- Imasen Electric Co., Ltd.: *See*—
- Tsuhata, Fusaaki. 222,927.
- Impala Industries, Inc.: *See*—
- Smith, Jay N. 225,639.
- Imperial Arts Corp.: *See*—
- Schneider, Irwin. 225,694.
- Infotechnics, Inc.: *See*—
- Gilson, Channing W. 223,096.
- Inhelder, Allen E., to J. W. Cross Co. Cabinet. 224,492, 8-1-72, Cl. D6—166.
- Inhelder, Allen E., to J. W. Cross, Co. Cabinet. 224,924, 10-17-72, Cl. D6—127.
- Inlow, Robert: *See*—
- Gallagher, Edward L., and Inlow. 225,379.
- Inpala Industries, Inc.: *See*—
- Smith, Jay N. 224,891.
- Insolito, Thomas A., to The Fletcher-Terry Co. Handle for glass cutter or similar article. 225,607, 12-26-72, Cl. D8—51.
- Institutional Maintenance Corp.: *See*—
- Emanuele, Roy L. 223,830.
- Integrated Controls, Inc.: *See*—
- Vinson, Billy H. 223,549.

- Interface Industries, Inc.: *See*—
- Davis, Myron F., and Furlani. 224,320.
- Vaskunas, Vyantas, A. 224,539.
- Interlab, Inc.: *See*—
- Layton, Howard M. 223,470.
- International Biophysics Corp.: *See*—
- Reinecke, Jean O. 225,580.
- International Business Machines Corp.: *See*—
- Aderman, Wayne L. 225,332.
- Aderman, Wayne L., and Kneale. 225,234.
- Bisler, Clifford B., Lucey, Noel, and Ronzani. 223,197.
- Bixler, Loring C., Davis, and Eisenman. 225,645.
- Bixler, Loring C., Davis, McCormick, and Wiener. 223,762.
- Bixler, Loring C., Davis, Lahey, McCormick, Jr., and Wiener. 224,605.
- Bixler, Loring C., Davis, Lahey, McCormick, and Wiener. 224,682.
- Lucey, Edward D., and Molerin. 223,158.
- International Flavors & Fragrances Inc.: *See*—
- Sayre, Van Vechten, Kirkpatrick, and Zelenko. 224,998.
- International Multifoods Corp.: *See*—
- McGowan, John T. 225,169.
- International Playtex Corp.: *See*—
- Sachs, Charles M. 223,327.
- International Products, Inc.: *See*—
- Whitehead, Jack D. 224,535.
- International Silver Co.: *See*—
- Gonshorek, Milton. 225,454.
- Knape, William J. 224,345.
- Knape, William J. 225,455.
- Toffolon, Siro R. 223,405.
- Toffolon, Siro R. 223,406.
- Toffolon, Siro R. 225,679.
- Interspace Corp.: *See*—
- Winans, Mary J. 223,168.
- Intorclo, Vincent J. Mobile cocktail bar. 224,195, 7-11-72, Cl. D6—144.
- Intorclo, Vincent J. Mobile cocktail bar. 224,868, 10-3-72, Cl. D6—144.
- Ireland, Edward A., to Sunbeam Corp. Illuminable makeup mirror. 223,973, 6-20-72, Cl. D86—10.
- Irvin, Irene: *See*—
- Commans, Bryan F., and Irvin. 223,233.
- Isen, Allan A.: *See*—
- Kirchner, Fredric M., and Isen. 223,010.
- Ishida, Takuo: *See*—
- Sato, Norio, and Ishida. 223,555.
- Ishihara, Koji: *See*—
- Momose, Keigo, Ishihara, and Matsuo. 223,107.
- Momose, Keigo, Ishihara, and Motonaka. 223,923.
- Ishihara, Yasushi: *See*—
- Watanabe, Shigeru, Ishihara, and Kondo. 223,236.
- Ishikawa, Shoji, to Matsushita Electric Industrial Co., Ltd. Desk lamp. 223,504, 4-25-72, Cl. D48—20.
- Ishikawa, Shoji, to Matsushita Electric Industrial Co., Ltd. Desk lamp. 223,506, 4-25-72, Cl. D48—20.
- Ishikawa, Tadao, and T. Tokuda, to Sanyo Electric Co., Ltd., and Tokyo Sanyo Electric Co., Ltd. Illuminated double-faced make-up mirror. 224,575, 8-1-72, Cl. D86—10.
- Ishimaru, Lloyd Y.: *See*—
- Shimano, Moto, Zierhut, and Ishimaru. 223,362.
- Shimano, Moto, Zierhut, and Ishimaru. 223,429.
- Iskyan, Mary K. Overshoe. 224,992, 10-31-72, Cl. D2—279.
- Iskyan, Mary K. Overshoe. 225,188, 11-28-72, Cl. D2—279.
- Ito, Kazuo: *See*—
- Funato, Toshiki, Katsuzaki, and Ito. 224,942.
- Ito, Shima: *See*—
- Ono, Taisuke, and Ito. 225,186.
- Itoh, Shoichi, and E. Rucker, to Century Products, Inc. Combined walker and tray for a child. 223,538, 5-2-72, Cl. D15—1.
- Ivac Corp.: *See*—
- Hudspeth, Sydney. 224,812.
- Hudspeth, Sydney. 224,988.
- Sato, Stephens N. 222,956.
- Sato, Stephens N. 222,957.
- Sato, Stephens N. 223,050.
- Sato, Stephens N. 223,999.
- Sato, Stephens N. 224,813.
- Sato, Stephens N. 224,814.
- Sato, Stephens N. 224,987.
- Ives, H. B., Co.: *See*—
- Johnson, Harry D., and Russell. 223,994.
- Ives Laboratories Inc.: *See*—
- Roberts, Edwin F. 224,591.
- Izumi Denki Co. Ltd.: *See*—
- Fujita, Teizo, and Kikuchi. 223,493.
- Izzi, Edmund L.: *See*—
- Breed, Charles P., Izzi, and Husby. 224,753.
- Husby, Donald E., and Izzi. 222,810.
- JFD Electronics Corp.: *See*—
- Finkel, Edward. 223,453.
- Finkel, Edward. 223,454.
- Finkel, Edward. 223,455.
- Finkel, Edward. 223,456.
- JG Furniture Co., Inc.: *See*—
- Nance, John. 223,046.
- Nance, John. 225,046.
- JMR Enterprises, Inc.: *See*—
- Perleman, Richard J. 223,831.
- Jackson, Erval D. Four wheel tractor. 225,000, 10-31-72, Cl. D14—3.
- Jackson, James W. Dog boot. 223,369, 4-11-72, Cl. D30—34.
- Jackson, Verner L.: *See*—
- Waddle, Thirl W., Wood, and Jackson. 224,242.
- Jacob, Albert. Combined jug and cap therefor. 225,395, 12-12-72, Cl. D9—40.
- Jacobson, Allen G., to Computer Transceiver Systems, Inc. Communications keyboard. 223,252, 4-4-72, Cl. D26—5.
- Jacobson, Kenneth R.: *See*—
- Knox, William C., Jr. 224,792.
- Jacobson, William P., to Anderson Bros. Mfg. Co. Packaging tray. 223,232, 4-4-72, Cl. D9—180.
- Jaffe, Jack J., to Catalyst Products (Lelsure) Ltd. Game board. 225,345, 12-5-72, Cl. D34—5.
- Jaffe, Martin A., G. S. Northrop, and S. Braun. Case for art supplies. 223,652, 5-23-72, Cl. D9—189.
- Jaffe, Martin A., G. S. Northrop, and S. Braun. Jewelry case or similar article. 223,692, 5-23-72, Cl. D87—1.
- Jamison, Grant E., to Jamison, Inc. Combined playground tree house and slide. 224,247, 7-11-72, Cl. D34—5.
- Jamison, Inc.: *See*—
- Jamison, Grant E. 224,247.
- Jamy, Inc.: *See*—
- Frashker, Robert M. 223,244.
- Janda, George M., to Automatic Electric Laboratories, Inc. Telephone operator's answer turret. 224,409, 7-25-72, Cl. D26—14.
- Janda, George M., to GTE Automatic Electric Laboratories, Inc. Telephone operator's service console. 225,233, 11-28-72, Cl. D26—5.
- Janome Sewing Machine Co., Ltd.: *See*—
- Eguchi, Yoshiaki. 223,867.
- Yamamoto, Yasuaki. 223,866.
- Yamamoto, Yasuaki. 224,132.
- Yamamoto, Yasuaki. 224,574.
- Yamamoto, Yasuaki. 225,182.
- Yamamoto, Yasuaki. 225,376.
- Japan Power Safety Device M.F.G. Co., Ltd.: *See*—
- Tsunokawa, Kiyoo, and Fukushima. 223,664.
- Jarecki, James J., to EZ Paint Corp. Display stand. 223,872, 6-13-72, Cl. D80—9.
- Jarecki, James J., to EZ Paint Corp. Display stand. 223,873, 6-13-72, Cl. D80—9.
- Jarkin, Simon. Luggage handle or the like. 223,698, 5-30-72, Cl. D8—154.
- Jeckel, Norman C. Webbed horseshoe. 224,687, 8-29-72, Cl. D30—35.
- Jeckel, Norman C. Calked horseshoe. 224,793, 9-19-72, Cl. D30—35.
- Jedora, John. Brush. 223,136, 3-21-72, Cl. D4—15.
- Jefferies, Jesse H. Circular slide rule. 223,859, 6-13-72, Cl. D52—6.
- Jenkins, Dennis L. Table. 224,825, 9-26-72, Cl. D6—146.
- Jenner, Dee L., to Hi-Shear Corp. Faucet. 224,402, 7-25-72, Cl. D23—25.
- Jenner, Dee L., to Hi-Shear Corp. Faucet. 224,403, 7-25-72, Cl. D23—23.
- Jenner, Dee L., to Hi-Shear Corp. Faucet. 224,404, 7-25-72, Cl. D23—25.
- Jeno's Inc.: *See*—
- Meaney, Daniel J., Jr. 225,254.
- Jensen, Jens E. G., and N. P. G. Graversen, to Danfoss A/S. Control knob for a thermostatic valve or the like. 223,797, 6-13-72, Cl. D8—140.
- Jensen, Jens E. G., and N. P. G. Graversen, to Danfoss A/S. Control knob for a thermostatic valve or the like. 223,798, 6-13-72, Cl. D8—140.
- Jensen, Jens E. G., and N. P. G. Graversen, to Danfoss A/S. Control knob for a thermostatic valve or the like. 223,799, 6-13-72, Cl. D8—140.
- Jensen, Jens E. G., and N. P. G. Graversen, to Danfoss A/S. Control knob for a thermostatic valve or the like. 223,800, 6-13-72, Cl. D8—142.
- Jensen, Jens E. G., and N. P. G. Graversen, to Danfoss A/S. Control knob for a thermostatic valve or the like. 223,801, 6-13-72, Cl. D8—142.
- Jepson, John W.: *See*—
- Viera, Anthony A., Woolley, and Jepson. 225,123.
- Jet-X Corp.: *See*—
- Proctor, Rudy R. and D. L. 222,829.
- Proctor, Rudy R. and D. L. 225,120.
- Jewell, Donald K., to Lincoln Mfg. Co., Inc. Food packaging tray. 224,585, 8-8-72, Cl. D9—185.
- Jewell, Donald K., to Lincoln Mfg. Co., Inc. Food packaging tray. 224,586, 8-8-72, Cl. D9—185.
- Jewell, Donald K., to Lincoln Mfg. Co., Inc. Food packaging tray. 224,587, 8-8-72, Cl. D9—219.
- Jimbo, Katumi, to Sharp Corp. Electronic calculating machine. 225,534, 12-19-72, Cl. D26—5.
- Jimenez, Antonio, to Meina S.A. Ironing press. 225,451, 12-12-72, Cl. D49—1.
- Johannes, Henry R.: *See*—
- Condon, Richard W., Krabbe, Johannes, and Combs. 222,902.
- John, Raymond, to American Hospital Supply Corp. Surgical clip. 223,978, 6-20-72, Cl. D83—12.
- Johns-Manville Corp.: *See*—
- Voigt, Paul A. 223,351.
- Johnson, Carl N., deceased, by J. H. Johnson, executrix, and W. A. Stapleton, Sr. to General Electric Co. Clock or similar article. 223,851, 6-13-72, Cl. D42—7.
- Johnson, Carl N., deceased, by J. H. Johnson, executrix, to General Electric Co. Clock or similar article. 223,852, 6-13-72, Cl. D42—7.

- Johnson, Carl N., deceased, by J. H. Johnson, executrix, to General Electric Co. Clock or similar article. 223,853, 6-13-72, Cl. D42-7.
- Johnson, Frank M. Golf club cleaning tool. 225,655, 12-26-72, Cl. D34-5.
- Johnson, Henry D., and R. H. Russell, to The H. B. Ives Co. Combined door holder and striker. 223,994, 6-27-72, Cl. D8-203.
- Johnson, Jean H.: *See*—
Johnson, Carl N. 223,853.
Johnson, Carl N., and Stapleton. 223,851.
- Johnson, Larry L.: *See*—
Price, John F., and Johnson. 224,796.
- Johnson, Leonard W.: *See*—
Hill, David L. 225,600.
- Johnson, Phillip J., and C. A. Keskey. Tractor cab. 225,321, 12-5-72, Cl. D14-27.
- Johnson, Rodney D.: *See*—
Mogliner, Geoffrey A., and Johnson. 224,974.
- Johnson, Roland E., to The Procter & Gamble Co. Jug. 223,601, 5-16-72, Cl. D9-42.
- Johnson, Ronald M.: *See*—
Bennet, Edward J., and Johnson. 223,210.
- Johnson, Roland W., to American Play-World, Inc. Covered wagon playground climber or the like. 223,674, 5-23-72, Cl. D34-9.
- Johnson, Sinclair L. D. Hat. 223,742, 6-6-72, Cl. D2-257.
- Johnson, Stanley R., and A. P. Stewart, to Baxter Laboratories, Inc. Biological testing device. 225,525, 12-19-72, Cl. D16-1.
- Johnson, Thomas: *See*—
Leong, Henry, Johnson, and Fortier. 225,678.
- Johnson, William K., and P. V. Hartman, to Picker Corp. X-ray tube housing. 223,220, 3-28-72, Cl. D83-1.
- Jolliffe, John E.: *See*—
Hanson, Thomas E., and Jolliffe. 223,066.
- Jones, Clifton E., to Anderson Safeway Guard Rail Corp. Overhead sign support. 225,488, 12-12-72, Cl. D96-12.
- Jones, Clifton E., to Anderson Safeway Guard Rail Corp. Overhead sign support. 225,593, 12-19-72, Cl. D96-12.
- Jones, David A., to The Drackett Co. Air freshener container. 224,783, 9-19-72, Cl. D23-150.
- Jones, Elwyn: *See*—
Zeop, Kenneth H., White, and Jones. 222,850.
- Jones, Jack, to Cessna Aircraft Co. Aircraft service structure. 223,749, 6-6-72, Cl. D13-1.
- Jones, Kenneth E., to SCOA Industries, Inc. Shoe heel. 223,078, 3-7-72, Cl. D2-323.
- Jones, Robert L. Drawer guide or similar article. 225,603, 12-26-72, Cl. D6-191.
- Jones, Richard B. Camera support bracket for a tripod. 225,573, 12-19-72, Cl. D61-1.
- Jones-Zylon, Inc.: *See*—
Collins, Delmas E. 224,222.
Collins, Delmas E. 225,436.
- Jorgensen, Hans P. Shelf unit. 223,201, 3-28-72, Cl. D33-3.
- Jovanovich, Borislav D. Hanger. 223,063, 3-7-72, Cl. D80-8.
- Judson, William V., to General Electric Co. Clock or similar article. 223,627, 5-16-72, Cl. D42-7.
- Justrite Mfg. Co., The: *See*—
Filder, Frank S. 224,839.
Filder, Frank S. 225,109.
- Juy, Lucien C. H. Bicycle chain wheel shifter. 224,991, 10-14-72, Cl. 90-1.
- KMS Industries, Inc.: *See*—
Thompson, Ernest F. 223,256.
- K & P Products, Inc.: *See*—
Kitovich, William P. 224,758.
- K-S-H, Inc.: *See*—
Shalhu, Leo G. 223,386.
- Kabushiki Kaisha Asakusa Gangu: *See*—
Tachi, Ichiro. 222,999.
- Kabushiki Kaisha Daimi Seikosha: *See*—
Osawa, Eichi. 225,124.
- Kabushiki Kaisha Kōpōru: *See*—
Nagata, Hideaki. 224,799.
Nagata, Hideaki. 224,800.
Nagata, Hideaki. 224,801.
Watanabe, Riki. 223,628.
Watanabe, Riki. 223,680.
Watanabe, Riki. 225,362.
- Kabushiki Kaisha Ricoh: *See*—
Okada, Sadao. 224,627.
- Kabushiki Kaisha Tokyo Suehiro Sharyo Seisakusho: *See*—
Shimoi, Shusuke. 223,818.
- Kabushiki Kaisha Yamashima Seikosha: *See*—
Hirata, Reichi. 223,560.
- Kacher, Robert S. Dragster. 223,344, 4-11-72, Cl. D14-3.
- Kaelke, Edwin K., to The Haeger Potteries, Inc. Floral vase or the like. 224,120, 7-4-72, Cl. D29-28.
- Kaelke, Edwin K., to The Haeger Potteries, Inc. Floral vase or the like. 224,414, 7-25-72, Cl. D29-28.
- Kahl, William G., Jr., to Arrowhead Enterprises, Inc. Photo-electric intrusion detector unit. 224,629, 8-15-72, Cl. D72-1.
- Kahn, Robert D., to Fedtro, Inc. Circuit test probe. 223,108, 3-14-72, Cl. D26-1.
- Kahn, Robert D., to Fedtro, Inc. Insect electrocuting trap. 223,825, 6-13-72, Cl. D22-19.
- Kahn, Robert D., to Fedtro, Inc. Master control panel for alarm systems or the like. 223,926, 6-20-72, Cl. D26-13.
- Kahn, Robert D., to Fedtro, Inc. Siren. 224,276, 7-11-72, Cl. D72-1.
- Kahn, Robert D., to Fedtro, Inc. Photo electric switch. 224,318, 7-18-72, Cl. D26-1.
- Kahn, Robert D., to Fedtro, Inc. Combined control panel and switch. 224,621, 8-15-72, Cl. D26-13.
- Kainass, Andrew, to General Electric Co. Portable tape recorder. 224,235, 7-11-72, Cl. D26-14.
- Kaiser Aluminum & Chemical Corp.: *See*—
Tilley, Melvin M. 223,488.
- Kalendar, Herbert, to Advance Metal Products, Inc. Control station for pneumatic tube system. 224,115, 7-4-72, Cl. D26-13.
- Kalvitis, Robert E.: *See*—
Harrison, Larry D., and Kalvitis. 224,025.
- Kalvitis, Robert E., and R. H. Van Valkenburgh, to Xerox Corp. Send/receive data printer terminal. 224,019, 6-27-72, Cl. D26-5.
- Kamata, Eitaro, to Shoei Kakoh Co., Ltd. Helmet. 224,182, 7-11-72, Cl. D2-232.
- Kamins, Seymour, D. Gelles, and J. Horodecky, to CTP Industries Inc. Combined closure and handle for a carrier bag. 223,699, 5-30-72, Cl. D8-154.
- Kamins, Seymour, D. Gelles, and J. Horodecky, to CTP Industries Inc. Combined closure and handle for a carrier bag. 223,700, 5-30-72, Cl. D8-154.
- Kamins, Seymour, and N. Rosenberg, to CTP Industries Inc. Hook support for carrier bag handle. 223,229, 4-4-72, Cl. D8-246.
- Kamins, Seymour, and N. Rosenberg, to CTP Industries Inc. Hook support for carrier bag handle. 223,230, 4-4-72, Cl. D8-246.
- Kamins, Seymour, and N. Rosenberg, to CTP Industries Inc. Hook support for carrier bag handle. 224,826, 9-26-72, Cl. D8-246.
- Kamrath, Richard H., F. L. Harrison, and R. C. Bauer, to U.S. Plywood-Champion Papers Inc. Wall paneling. 222,855, 1-18-72, Cl. D13-1.
- Kaneko, Shiro. Spoon or similar article. 222,952, 2-8-72, Cl. D54-12.
- Kanno, Kyusei, to Asahi Kogaku Kogyo Kabushiki Kaisha. Eye level view finder for camera. 224,941, 10-17-72, Cl. D61-1.
- Kanno, Kyusei, to Asahi Kogaku Kogyo Kabushiki Kaisha. Single lens reflex camera. 225,034, 10-31-72, Cl. D61-1.
- Karasek, Josef H., to McNamara Racing K.G. Model racing car. 222,916, 2-1-72, Cl. D34-15.
- Karasek, Josef H., to McNamara Racing K.G. Model racing car. 225,663, 12-26-72, Cl. D34-15.
- Karlin, George H.: *See*—
Elson, Edward E., Lane, and Karlin. 223,475.
- Karma Division of Brandt Automatic Cashier: *See*—
Mox, Dana W. 223,325.
- Kashiwagi, Tetsuo, to Hitachi, Ltd. Desk electronic calculator. 223,612, 5-16-72, Cl. D26-5.
- Kastner, Arnold. Cigarette making machine. 223,523, 4-25-72, Cl. D65-7.
- Kastner, Josef. Table or similar article. 225,291, 12-5-72, Cl. D6-177.
- Katayama, Isao, assignor to Minolta Camera Kabushiki Kaisha, and Matsushita Electric Industrial Co., fractional part interest to each. Motion picture sound projector-viewer unit. 223,729, 5-30-72, Cl. D61-1.
- Kathmann, Wayne F. Combined trailer and kitchen unit. 225,520, 12-19-72, Cl. D14-3.
- Kato, Itsuo: *See*—
Wada, Hideo, Nashinoki, Kato, and Murakami. 223,294.
- Kato, Kazuyoshi: *See*—
Nishino, Seichi, Kato, and Akahori. 223,689.
- Katsuzaki, Yoshio: *See*—
Funato, Toshiaki, Katsuzaki, and Ito. 224,942.
- Kattelmann, Harry R.: *See*—
Coleman, Clarence B., and Kattelmann. 223,094.
- Katz, Maurice D. Circular radio tuning frequency control with transverse indicator faces. 224,407, 7-25-72, Cl. D26-1.
- Katz, Maurice D. Transverse radio tuning indicator face plate. 225,012, 10-31-72, Cl. D26-1.
- Katz, Maurice D. Transverse radio tuning indicator face plate (6). 225,058, 11-7-72, Cl. D26-1.
- Katz, Maurice D. Radio tuning indicator face plate (4). 225,059, 11-7-72, Cl. D26-1.
- Katz, Maurice D. Transverse radio tuning indicator face plate (5). 225,060, 11-7-72, Cl. D26-1.
- Katz, Maurice D. Circular radio tuning frequency control with transverse indicator faces (12). 225,061, 11-7-72, Cl. D26-1.
- Katz, Maurice D. Combined magnifier and radio tuning indicator. 225,062, 11-7-72, Cl. D26-1.
- Katz, Maurice D. Radio tuning indicator face plate (8). 225,063, 11-7-72, Cl. D26-1.
- Katz, Maurice D. Radio tuning indicator face plate (7). 225,064, 11-7-72, Cl. D26-1.
- Katz, Maurice D. Portable radio dual tuning face indicator plate. 225,066, 11-7-72, Cl. D26-1.
- Katz, Maurice D. Three sided radio tuning indicator face plate. 225,067, 11-7-72, Cl. D26-1.
- Katz, Maurice D. Radio tuning indicator face plate (1). 225,406, 12-12-72, Cl. D26-1.
- Katz, Maurice D. Transverse radio tuning indicator face plate (2). 225,407, 12-12-72, Cl. D26-1.
- Katz, Maurice D. Combined radio tuning indicator and magnifier. 225,408, 12-12-72, Cl. D26-1.
- Katz, Maurice D. Angular tuning indicator face plate. 225,409, 12-12-72, Cl. D26-1.

- Katz, Maurice D. Arcuate radio tuning indicator face plate. 225,410, 12-12-72, Cl. D26-1.
- Kaufman, Fred, and D. C. Siverts, to Hitco. Beverage serving cart. 223,152, 3-21-72, Cl. D14-3.
- Kaufman, James C., and R. L. Funkhouser, to The National Cash Register Co. Microform reader. 223,963, 6-20-72, Cl. D61-1.
- Kavanagh, Thomas S., R. H. Ralston, R. R. Campbell, J. I. Awelda, and R. A. Thurmer, to Storage Technology Corp. Magnetic tape unit. 223,922, 6-20-72, Cl. D26-5.
- Kawaguchi, Junichi: *See*—
Sakai, Jiro, Kawaguchi, and Noda. 223,871.
Sakai, Jiro, Kawaguchi, and Noda. 224,456.
- Kawamura, Ken, and K. Makino. Radio receiver. 223,512, 4-25-72, Cl. D56-4.
- Kayle, Jerry P., to Pacific Game Co., Inc. Three dimensional game board. 223,540, 5-2-72, Cl. D34-5.
- Kazuma, Koji, and K. Omi, to Canon Kabushiki Kaisha. Microfilm contact printer. 223,594, 5-9-72, Cl. D61-1.
- Keeler Brass Co.: *See*—
Watt, William D., Jr. 224,956.
Watt, William D., Jr. 225,207.
- Keegan, Robert J. Jack. 224,431, 7-25-72, Cl. D41-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 223,904, 6-20-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 223,905, 6-20-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 223,906, 6-20-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 223,907, 6-20-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 223,908, 6-20-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 224,216, 7-11-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 224,217, 7-11-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 224,218, 7-11-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 224,295, 7-18-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 224,296, 7-18-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 224,297, 7-18-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 224,648, 8-22-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 225,054, 11-7-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 225,055, 11-7-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 225,313, 12-5-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 225,314, 12-5-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 225,316, 12-5-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 225,317, 12-5-72, Cl. D13-1.
- Kelblish, Edward D. Pre-assembled modular housing structure. 225,318, 12-5-72, Cl. D13-1.
- Kelleher, Thomas: *See*—
Paulson, Maurice G., Kelleher, Price, and Levin. 223,932.
- Keller, Albert G.: *See*—
Muys, Louis G., and Keller. 222,837.
- Keller, Huey T., to Empire Furniture Corp. Headboard for a bedstead or similar article. 224,199, 7-11-72, Cl. D6-198.
- Keller, Huey T. Headboard for a bedstead or similar article. 225,140, 11-21-72, Cl. D5-4.
- Keller, Huey T. Headboard for a bedstead or similar article. 225,491, 12-19-72, Cl. D5-4.
- Kelley, James O.: *See*—
Pronst, Robert L., and Kelley. 224,096.
- Kellwood Co.: *See*—
Enzel, Fred W., and Hillary. 224,850.
Fohl, Harold J., and Diederich. 224,761.
- Kelly, Samuel P. Adjustable flower pot holder. 224,333, 7-18-72, Cl. D35-3.
- Kelly, Thomas J.: *See*—
Genaro, Donald M., Kelly, McGarvey, and Stokes. 224,117.
- Kelsey-Hayes Co.: *See*—
Reid, Donald J. 223,534.
- Kelso, James W., to MSI Data Corp. Data collection component. 223,002, 2-22-72, Cl. D26-5.
- Kelso, James W., to MSI Data Corp. Data input terminal. 224,230, 7-11-72, Cl. D26-5.
- Kemp, Margaret J. Letter holder. 223,640, 5-16-72, Cl. D74-2.
- Kenco Products Corp.: *See*—
Tall, Nathan I., and K. I. 223,428.
- Kendrick, Marron, to Schlage Lock Co. Thumb turn for a lock. 225,204, 11-28-72, Cl. D8-108.
- Kenerson, Richard A. Combined trash receptacle and advertising display. 223,956, 6-20-72, Cl. D49-35.
- Kenjiro, Goto. Cigarette lighter. 224,915, 10-10-72, Cl. D48-27.
- Kenmotsu, Kenneth M., to Chicago Display Co. Product display tray. 222,817, 1-4-72, Cl. D80-9.
- Kennedy, John P.: *See*—
Marsalka, Joseph P., and Kennedy. 224,317.
- Kennedy, Raymond E.: *See*—
Gilkeson, Earl E., Waterloo, Kennedy, R. L. and R. E. 223,141.
- Kennedy, Richard L.: *See*—
Gilkeson, Earl E., Waterloo, Kennedy, R. L. and R. E. 223,141.
- Kenney, William J., to Friedman, Leonard, Rack for heating textile fabrics draped thereover. 225,330, 12-5-72, Cl. D23-77.
- Kerman, Wilbur J., to Cubicon Corp. Stackable table. 224,494, 8-1-72, Cl. D6-177.
- Kermes, Constantine J., to Sperry Rand Corp. Lawn and garden tractor. 224,298, 7-18-72, Cl. D14-3.
- Kernan, George L. Holder for highway flares. 224,454, 7-25-72, Cl. D72-1.
- Kerns, J. F. Industries: *See*—
Derian, Mildred. 222,900.
- Kerr, Donald D. Rigid molded cover for a snowmobile. 224,782, 9-19-72, Cl. D14-27.
- Kerr, Raymond W. Resins casting machine. 225,683, 12-26-72, Cl. D55-1.
- Keskey, Clifford A.: *See*—
Johnson, Phillip J., and Keskey. 225,321.
- Kesler, Herman: *See*—
Becker, James R., and Kesler. 225,662.
- Kester, Don W. Combined game board and chip holder or the like. 223,714, 5-30-72, Cl. D34-5.
- Ketcham, Charles B., and T. M. Reyda, to Corning Glass Works. Cup or the like. 224,623, 8-15-72, Cl. D44-9.
- Ketcham & McDougall, Inc.: *See*—
Macowski, William. 223,179.
Macowski, William, Jr. 223,276.
Macowski, William, Jr. 223,277.
- Kettler, Heinz, to Heinz Kettler. Arm-chair. 225,146, 11-21-72, Cl. D6-89.
- Keuffel & Esser Co.: *See*—
Collura, Francesco. 223,968.
Collura, Francesco. 223,969.
- Key Hydroponics Ltd.: *See*—
Kyle, Leslie B. 224,746.
- Keyes, Richard E.: *See*—
Lingert, Ralph E., and Keyes. 223,051.
- Keystone Division of Berkey Photo: *See*—
Emmerling, Ronald A. 224,572.
- Kilde, Walter, & Co., Inc.: *See*—
Freedman, Stuart I. 224,888.
Stern, Russell L. 224,128.
Stern, Russell L. 224,129.
Stern, Russell L. 224,978.
Stern, Russell L. 224,979.
Stern, Russell L. 224,980.
- Kiku Co.: *See*—
Shimosawa, Ron. 223,179.
- Kikuchi, Masao: *See*—
Fujita, Teizo, and Kikuchi. 223,493.
- Killigrew, Daniel L., Jr., to Corning Glass Works. Detachable handle for a decanter or similar article. 225,437, 12-12-72, Cl. D44-21.
- Kim, Marjorie M., to Wilford Cruz. Magnetic game table. 223,380, 4-11-72, Cl. D34-5.
- Kimmel, Irvine. Extruded H connector member. 223,088, 3-7-72, Cl. D13-6.
- Kiner, David L., to United McGill Corp. Interlocking flooring panel. 224,703, 9-5-72, Cl. D13-1.
- King, J. A., & Co.: *See*—
King, James A., Sr. 225,273.
- King, James A., Sr., to J. A. King & Co. Sample cutter. 225,273, 11-28-72, Cl. D55-1.
- King, James R., and G. D. Myers, to King Nutronics Corp. Parachute actuator test chamber. 223,122, 4-14-72, Cl. D52-1.
- King Nutronics Corp.: *See*—
King, James R., and Myers. 223,122.
- King, Roger A., and K. O. Burton, to Bur Kin Homes Corp. Modular home. 225,216, 11-28-72, Cl. D13-1.
- King, William L., to Nathan E. Knecht. Exerciser. 223,112, 3-14-72, Cl. D34-5.
- King, William L., to Nathan E. Knecht. Exerciser. 223,113, 3-14-72, Cl. D34-5.
- King, William R., to Sandoz-Wander, Inc. Full face mask. 225,582, 12-19-72, Cl. D83-1.
- Kingsley, Eleanor V. Litter receptacle. 222,921, 2-1-72, Cl. D49-35.
- Kingston, Kenneth D. Shag rug comb head. 223,100, 3-14-72, Cl. D4-3.
- Kinkel, Christian F. and B. F. Pillnik, to American Can Co. Container end. 224,209, 7-11-72, Cl. D9-255.
- Kinney, Alfred W., to Phillips Petroleum Co. Closure or similar article. 222,905, 2-1-72, Cl. D9-267.
- Kinsinger, William C. Metagraphic Systems, Inc. Microfilm viewer. 223,054, 3-7-72, Cl. D61-1.
- Kinstley, Paul S., to Oro-Lange Enterprises, Inc. High chair. 223,757, 6-6-72, Cl. D15-1.
- Kinzie, William W.: *See*—
Lindley, Donald C., Kinzie, and Runyan. 225,397.
- Kira, Alexander, and G. R. Scheuring, to American Standard Inc. Toilet seat. 222,965, 2-15-72, Cl. D23-71.
- Kirby, Edna M. Glove. 223,695, 5-30-72, Cl. D2-375.
- Kirchner, Fredric M., and A. A. Isen, to Griffin Laboratories Inc. Contact lens case. 223,010, 2-22-72, Cl. D57-1.
- Kirk Optical Lens Co., Inc.: *See*—
Kirk, Stanley. 223,297.
- Kirk, Stanley, to Kirk Optical Lens Co., Inc. Ophthalmic lens hardening apparatus. 223,297, 4-4-72, Cl. D57-1.
- Kirkbride, Alec B., to Tudor Accessories Ltd. Liquid sprayer. 224,531, 8-1-72, Cl. D23-18.

Kirkman, David F., and G. T. Miller. Bowstring release. 223,573, 5-9-72, Cl. D22-55.
 Kirkpatrick, George A. Dolly for handling rolls of carpeting. 223,343, 4-11-72, Cl. D14-3.
 Kirkpatrick, Hugh R.: See—
 Sayre, Van Vechten, Kirkpatrick, and Zelenko. 224,998.
 Kiss, Steven. Dispenser holder. 223,376, 4-11-72, Cl. D33-30.
 Klitovich, William P., to K & P Products, Inc. Boat engine. 224,758, 9-12-72, Cl. D71-1.
 Kitson, Gerald L. Poultry cage divider panel. 225,337, 12-5-72, Cl. D30-1.
 Kitson, Gerald L. Laying cage divider. 225,416, 12-12-72, Cl. D30-1.
 Kitson, Gerald L. Wire mesh panel for poultry cages. 225,417, 12-12-72, Cl. D30-2.
 Kittner, Benjamin, to Vernitron Medical Products Inc. Cleaning adapter for a jet hypodermic injection device. 225,185, 11-21-72, Cl. D83-12.
 Klein, Arnold H., to Klein Industries, Inc. Wardrobe cabinet. 224,870, 10-3-72, Cl. D6-164.
 Klein Industries, Inc.: See—
 Klein, Arnold H. 224,870.
 Klemme, William W.: See—
 Roeder, Charles L., and Klemme. 223,516.
 Klepa, Peter P., and T. J. Hermann, to Hughes Aircraft Co. Subscriber terminal console. 225,646, 12-26-72, Cl. D26-5.
 Klepper, McClellan J. Head and handle for toothbrush or the like. 224,187, 7-11-72, Cl. D4-25.
 Klingerman, Milo W. Game target box. 224,976, 10-24-72, Cl. D34-5.
 Klob, Robert N., to Hydrodynamics, Inc. Baptistry control console. 224,741, 9-12-72, Cl. D26-13.
 Kloefkorn, Vernon R. Hose reel. 224,615, 8-15-72, Cl. D8-222.
 Klose, Odo, to Fritz Meckenstock. Packaging cup for food or the like. 223,999, 6-27-72, Cl. D9-229.
 Kloster, Glenn R. Car speaker cabinet. 223,670, 5-23-72, Cl. D26-14.
 Klupp, George A., Jr. Lamp. 223,720, 5-30-72, Cl. D48-20.
 Knapp, George A., to R. E. Dietz Co. Vehicle marker light lens. 224,142, 7-4-72, Cl. D48-32.
 Knauft, Charles P. Wrist watch. 224,803, 9-19-72, Cl. D42-8.
 Kneale, Collan B.: See—
 Aderman, Wayne L., and Kneale. 225,234.
 Knecht, Nathan E.: See—
 King, William L. 223,112.
 King, William L. 223,113.
 Knier, Edward J.: See—
 Martin, John C., and Knier. 225,077.
 Martin, John C., and Knier. 225,078.
 Knies, Robert H., to Hunt-Wesson Foods, Inc. Bottle. 222,988, 2-22-72, Cl. D9-72.
 Knodt, Ruediger W.: See—
 Derby, Dan R., Knodt, and Korn. 224,054.
 Knodt, Ruediger W., and H. Korn, to Xerox Corp. Book stacking unit for xerographic reproduction machine. 225,572, 12-19-72, Cl. D61-1.
 Knope, William J., to International Silver Co. Spoon or similar article of flatware. 224,345, 7-18-72, Cl. D54-12.
 Knope, William J., to International Silver Co. Spoon or similar article of flatware. 225,455, 12-12-72, Cl. D54-12.
 Knowles, Frederick G., to Eastman Kodak Co. Keyboard for a microfilm retrieval system. 224,791, 9-19-72, Cl. D26-5.
 Knox, William C., Jr., to Kenneth R. Jacobson. Animal bed. 224,792, 9-19-72, Cl. D30-41.
 Knox, William W., to Mag-Nif, Inc. Game piece box. 222,945, 2-8-72, Cl. D34-5.
 Knox, William W., to Mag-Nif, Inc. Novelty amusement device. 222,946, 2-8-72, Cl. D34-15.
 Knox, William W., to Mag-Nif, Inc. Transposition puzzle. 222,947, 2-8-72, Cl. D34-15.
 Knox, William W., to Mag-Nif, Inc. Stacking puzzle. 222,948, 2-8-72, Cl. D34-15.
 Knutson, Robert C., to Vexilar, Inc. Depth meter. 222,941, 2-8-72, Cl. D26-1.
 Kobllek, Sol N. Combined valve and aerator for faucets. 225,402, 12-12-72, Cl. D23-20.
 Koch, Bruce A., to Leisure Dynamics Inc. Watch. 223,630, 5-16-72, Cl. D42-8.
 Koch, Samuel J. Combined cigarette lighter and ash tray. 223,878, 6-13-72, Cl. D85-2.
 Kodaira, Yasuo, Nihon Kaiheiki Kogyo Kabushiki Kaisha. Switch. 225,111, 11-14-72, Cl. D26-13.
 Kodinsky, Harry. Display unit. 224,496, 8-1-72, Cl. D6-186.
 Koehring Co.: See—
 Zeop, Kenneth H., White, and Jones. 222,850.
 Koenig, Gustav, C. Franz, and P. Huebner, to Gustav Koenig Unternehmensberatung. Combined wash-basin and cabinet. 222,861, 1-18-72, Cl. D23-59.
 Koenig, Gustav, Unternehmensberatung: See—
 Koenig, Gustav, Franz, and Huebner. 222,861.
 Koenigsberg, Victor, to Colgate-Palmolive Co. Jug or similar article. 223,142, 3-21-72, Cl. D9-45.
 Koenigsberg, Victor, to Colgate-Palmolive Co. Bottle or similar article. 224,510, 8-1-72, Cl. D9-89.
 Koenigsberg, Victor, to Colgate-Palmolive Co. Bottle or similar article. 224,511, 8-1-72, Cl. D9-90.
 Koenigsberg, Victor, to Colgate-Palmolive Co. Bottle of similar article. 224,512, 8-1-72, Cl. D9-90.
 Koenigsberg, Victor, to Colgate-Palmolive Co. Bottle or similar article. 224,513, 8-1-72, Cl. D9-90.
 Koerber, Mary G. Paper boy collection bag. 223,315, 4-4-72, Cl. D87-3.
 Kohl, Frederick G., and R. K. Marceca, to Rio Enterprises Inc. Chair. 224,633, 8-22-72, Cl. D6-12.
 Kohl, Frederick G., and R. K. Marceca, to Rio Enterprises Inc. A-shaped chair. 224,634, 8-22-72, Cl. D6-12.
 Kohl, Frederick G., and R. K. Marceca, to Rio Enterprises Inc. Chair. 225,945, 11-7-72, Cl. D6-12.
 Kohler Co.: See—
 Doman, Donald W. 224,108.
 Doman, Donald W. 224,225.
 Doman, Donald W. 224,945.
 Kohlmaier, Joy W.: See—
 Kohlmaier, Ruppert N., Jr. and J. W. 223,581.
 Kohlmaier, Ruppert N., Jr. and J. W. 223,934.
 Kohlmaier, Ruppert N., Jr. and J. W. Plaque. 223,581, 5-9-72, Cl. D29-23.
 Kohlmaier, Ruppert N., Jr. and J. W. Plaque. 223,934, 6-20-72, Cl. D29-23.
 Koizumi, Susumu. Spinal cord treating apparatus. 223,690, 5-23-72, Cl. D83-1.
 Kokado, Kazuo. Umbrella runner. 224,371, 7-18-72, Cl. D88-3.
 Komark Inc.: See—
 Purcell, James B. 223,102.
 Komendat, Michael B., Jr. Football down and ball marker. 223,165, 3-21-72, Cl. D34-5.
 Kondo, Naoyoshi: See—
 Watanabe, Shigeru, Ishihara, and Kondo. 223,236.
 Kondo, Ryoza. Miniature air compressor or the like. 222,846, 1-11-72, Cl. D65-1.
 Kondo, Ryoza. Miniature air compressor or the like. 222,847, 1-11-72, Cl. D65-1.
 Kondo, Ryoza. Air-pump for aquarium. 224,354, 7-18-72, Cl. D65-1.
 Kondo, Ryoza. Air-pump for aquarium. 224,355, 7-18-72, Cl. D65-1.
 Kondo, Ryoza. Air-pump for aquarium. 224,356, 7-18-72, Cl. D65-1.
 Kondo, Ryoza. Air-pump for aquarium. 224,357, 7-18-72, Cl. D65-1.
 Kondo, Ryoza. Air-pump for aquarium. 224,358, 7-18-72, Cl. D65-1.
 Kondo, Ryoza. Aquarium air pump or the like. 224,359, 7-18-72, Cl. D65-1.
 Kondo, Ryoza. Aquarium air pump or the like. 224,360, 7-18-72, Cl. D65-1.
 Kondo, Ryoza. Air-pump for aquarium. 224,667, 8-22-72, Cl. D65-1.
 Kool, Bram, to Microform Data Systems, Inc. Film strip cartridge. 223,117, 3-21-72, Cl. D61-1.
 Koolbergen, Jan A., to Compret N.V. Exercise rod or similar article. 223,614, 5-16-72, Cl. D34-5.
 Korn, Homer: See—
 Derby, Dan R., Knodt, and Korn. 224,054.
 Knodt, Ruediger W., and Korn. 225,572.
 Korte, Erwin N.: See—
 Hock, Donald D., Feigenbaum, Korte, and Baynes. 224,243.
 Kosoky Electric Co., Ltd.: See—
 Uchida, Isamu. 224,880.
 Kostanecki, Andrew T., to Bangor Punta Operations, Inc. Cabin for sailboat or the like. 224,985, 10-24-72, Cl. D71-1.
 Koste, Frank, Sr. Tie-down device. 224,082, 7-4-72, Cl. D8-220.
 Kountz, John C. Magnetic tape reel adapter. 223,367, 4-11-72, Cl. D26-14.
 Kovacevic, Radoslav. Handle for jar and bottle opener. 222,795, 1-4-72, Cl. D8-40.
 Kozlowski, Walter, to Beatrice Foods Co. Lamp. 222,920, 2-1-72, Cl. D48-31.
 Krabbe, Vernon L.: See—
 Condon, Richard W., Krabbe, Johannes, and Combs. 222,902.
 Krajest, Alexander. Combined paint box stand and easel. 225,116, 11-14-72, Cl. D29-20.
 Krause, Stephen R., assignor of one-half percent to Edward Stringer. Combined amplifier and speaker unit. 224,909, 10-10-72, Cl. D26-14.
 Kravitz, Harry, to Andorra Nurseries, Inc. Bottle or similar article. 224,827, 9-26-72, Cl. D9-47.
 Kreiser Mfg. Corp.: See—
 Arnone, Michael P. 225,690.
 Euseki, Richard K., and Arnone. 223,870.
 Kretschmer, H. John, to Modumatic Industries, Inc. Dental operator unit. 225,230, 11-28-72, Cl. D24-1.
 Kretz, Edward J., to Owens-Illinois, Inc. Combined jug and closure. 224,200, 7-11-72, Cl. D9-41.
 Kretz, Edward J. Jug. 224,828, 9-26-72, Cl. D9-42.
 Krivda, Alfred. Necktie. 223,984, 6-27-72, Cl. D2-357.
 Krook, Albert W., to The Scott & Fetzer Co. Cutlery handle. 225,387, 12-5-72, Cl. D95-3.
 Kroll, Frederick H. Clown pinwheel or similar article. 224,549, 8-1-72, Cl. D34-15.
 Krueger, Wallace F. Plural fluid control mixing and spray gun. 224,305, 7-18-72, Cl. D23-17.
 Krumin, Donald K., and R. J. Toth, to Motorola, Inc. Television camera or similar article. 222,955, 2-8-72, Cl. D61-1.
 Krumin, Donald K., and R. J. Toth, to Motorola, Inc. Radio pager or similar article. 223,097, 3-7-72, Cl. D26-14.
 Krusche, Kurt, and H. Zimmermann, to ALLSTAR Verbrauchsgüter GmbH & Co., KG (Allstar Consumer Products Co.). Fabric brush. 223,597, 5-9-72, Cl. D86-13.

Kuchar, Joseph, to Record Chemical Co., Inc. Dispensing container for chemicals. 223,337, 4-11-72, Cl. D9-218.
 Kuchar, Joseph, to Record Chemical Co., Inc. Display box. 224,208, 7-11-72, Cl. D9-242.
 Kuchta, Frank J.: See—
 Bass, Sidney, Baeaz, Christopher, and Kuchta. 224,249.
 Kuenster, Kenneth, to Hammermill Paper Co. Modular display stand. 223,041, 2-29-72, Cl. D80-9.
 Kuest, Johnnie. Abrasive grinding wheel. 225,665, 12-26-72, Cl. D37-1.
 Kuest, Johnnie. Abrasive grinding wheel including entrance way. 225,666, 12-26-72, Cl. D37-1.
 Kughta, Frank J. and R. L. May, to Mattel, Inc. Combined phonograph record and support for figure toy or the like. 223,842, 6-13-72, Cl. D34-4.
 Kuklinski, Rosemarie T. Hat or similar article. 223,328, 4-11-72, Cl. D2-257.
 Kulbersh, Irwin R.: See—
 Ferdinand, Irwin J., and Kulbersh. 223,886.
 Kunlansky, Raymond L., to Anaconda Aluminum Co. Door. 223,802, 6-20-72, Cl. D13-1.
 Kunkle, George E., Jr. Beverage smoother unit. 223,889, 6-13-72, Cl. D94-3.
 Kuntz, Dieter E. W. Ski bob. 223,166, 3-21-72, Cl. D34-15.
 Kupperman, Dennis I.: See—
 Kupperman, Sam and D. I. 225,653.
 Kupperman, Sam and D. I. Kite. 225,653, 12-26-72, Cl. D34-15.
 Kuroki, Fuyo. Spinning reel. 223,355, 4-11-72, Cl. D22-25.
 Kusek, Edwin F., to Borden, Inc. Bottle or the like. 223,804, 6-13-72, Cl. D9-2.
 Kwekel, Richard A.: See—
 Tanis, Marvin W., and Kwekel. 225,423.
 Kyle, Leslie B., to Key Hydroponics Ltd. Hydroponic garden unit. 224,746, 9-12-72, Cl. D35-3.
 Kyoeikogyo Kabushiki Kaisha: See—
 Miyoshi, Iwawa. 225,604.
 LTV Aerospace Corp.: See—
 Matza, Edward C. 224,845.
 La Barber, Joseph A., to Welland, Henry. Housing for blower vacuum or similar air circulating device. 223,734, 5-30-72, Cl. D83-901.
 La Barge, Inc.: See—
 Williams, John M. 225,361.
 Labrecque, Andre G. Air Freshener. 223,578, 5-9-72, Cl. D23-150.
 Laco Mfg. Co.: See—
 Lacy, Thomas W., Jr. 223,357.
 Lacy, Thomas W., Jr., to Laco Mfg. Co. Pump. 223,357, 4-11-72, Cl. D23-14.
 Laerstrom, Robert C.: See—
 Walz, David K., and Laerstrom. 224,624.
 La Goy, Byron L. Game. 224,837, 9-26-72, Cl. D34-5.
 Lahey, Donald F.: See—
 Bixler, Loring C., Davis, Lahey, McCormick and Wiener. 224,605.
 Bixler, Loring C., Davis, Lahey, McCormick, and Wiener. 224,682.
 Lahr/Simons Inc.: See—
 Lauer, Robert J. 224,497.
 Lake, Susan: See—
 Meth, Harry, and Lake. 223,164.
 Meth, Harry, and Lake. 223,615.
 Meth, Harry, and Lake. 223,936.
 Meth, Harry, and Lake. 224,239.
 Lamb, Bernard D. Flagman's safety paddle. 224,628, 8-15-72, Cl. D72-1.
 Lamb, Thomas. Chair. 223,347, 4-11-72, Cl. D15-1.
 Lamb, Thomas. Chair. 225,495, 12-19-72, Cl. D6-67.
 Lamb, Thomas, & Associates Ltd.: See—
 Lamb, Thomas L. 223,445.
 Lamb, Thomas L., to Thomas Lamb & Associates Ltd. Chaise longue. 223,445, 4-18-72, Cl. D15-11.
 Lambach, Adolph D.: See—
 Merendino, Salvatore, Barczak, and Lambach. 224,270.
 Lambda Electronics Corp.: See—
 Paulson, Maurice G., Kelleher, Price, and Levin. 223,932.
 Lamberson, Jack L. Teaching device. 224,739, 9-12-72, Cl. D25-1.
 Lambert, Jimmy M. Car top camper. 223,243, 4-4-72, Cl. D14-27.
 Lambert, Martin R., to Amerock Corp. Escutcheon plate. 223,746, 6-6-72, Cl. D8-179.
 Lambroff, George W.: See—
 Liddle, David E., and Lambroff. 224,947.
 Lamda Electronics Corp.: See—
 Projain, Richard, and Gold. 224,971.
 Laminar Flow, Inc.: See—
 Diccianni, Anthony M. 224,737.
 Landell, Harper, to Speakman Co. Hand shower body. 224,834, 9-26-72, Cl. D23-35.
 Landshire Products, Inc.: See—
 Marquart, Clarence F. 224,064.
 Lane, Bert: See—
 Elson, Edward T., Lane, and Karlin. 223,475.
 Lang, Karl, and H. Steiner, to Mettler Instrumente AG. Stackable housing unit for electronic equipment. 223,198, 3-28-72, Cl. D26-5.
 Lange, Gerd, to Firma Drabert Sohne. Chair. 225,195, 11-28-72, Cl. D6-66.
 Langworthy, Joseph J. Wall rack for nails or the like. 224,773, 9-19-72, Cl. D6-130.
 Langworthy, Joseph J. Wall rack for nails or the like. 224,774, 9-19-72, Cl. D6-130.
 Langworthy, Joseph J. Tote pack for nails or the like. 224,816, 9-19-72, Cl. D87-1.
 Lannoch, Hans-Jürgen, to Fichtel & Sachs AG. Gear shift housing for a bicycle. 224,922, 10-10-72, Cl. D90-1.
 Lannoch, Hans-Jürgen, to Fichtel & Sachs AG. Speed shift housing for a bicycle having dual cross bars. 225,591, 12-19-72, Cl. D80-1.
 Lansburg Electro-Coating Corp.: See—
 Scharfenberger, James A., and Snyder. 225,107.
 Lansing Bagnall Ltd.: See—
 Haynes, Roy. 223,242.
 Lapeyre, James M. Insert roll hold down. 224,151, 7-4-72, Cl. D55-1.
 Lapeyre, James M., Insert roll hold down. 224,152, 7-4-72, Cl. D55-1.
 Lapeyre, James M. Insert roll hold down. 224,153, 7-4-72, Cl. D55-1.
 La Pointe, Yves A.: See—
 Delisle, Pierre A., and La Pointe. 222,859.
 MacKeen, Anthony, and La Pointe. 222,858.
 MacKeen, Anthony, and Lapointe. 223,604.
 Lapointe, Yves A., to Bombardier Ltd. Snowmobile cowl. 222,695, 2-22-72, Cl. D14-24.
 Lapointe, Yves A., to Bombardier Ltd. Snowmobile seat. 223,709, 5-30-72, Cl. D14-24.
 Lapointe, Yves A., and P. Delisle, to Bombardier Ltd. Watercraft. 223,414, 4-11-72, Cl. D71-1.
 Lapointe, Yves A., and A. D. MacKeen, to Bombardier Ltd. Snowmobile sleigh. 224,907, 10-10-72, Cl. D14-24.
 Lapworth, Charles W. Sailboat hull with retractable keel. 222,816, 1-4-72, Cl. D71-1.
 Lar-Mar Co. Props, Inc.: See—
 Martens, LeRoy. 223,218.
 Lara, Julio M. Infant nursing bottle. 225,583, 12-19-72, Cl. D83-8.
 Larsen's Manufacturing Co.: See—
 Fudge, William L. 224,592.
 Larson, Charles O. Display stand. 224,060, 6-27-72, Cl. D80-9.
 Larson, Charles O. Display stand. 224,061, 6-27-72, Cl. D80-9.
 Larson, Charles O. Display stand. 224,062, 6-27-72, Cl. D80-9.
 Larson, Ellis D. Component for railings, grill works, columns and the like. 224,095, 7-4-72, Cl. D13-1.
 Larson, Ellis D. Component for grill works, railings, columns and the like. 224,211, 7-11-72, Cl. D13-1.
 Larson, Ellis D. Component for grill works, railings, columns and the like. 224,212, 7-11-72, Cl. D13-1.
 Larson, Orville W., to Ampex Corp. Magnetic tape television apparatus. 223,366, 4-11-72, Cl. D26-14.
 Larson, Orville W., to Ampex Corp. Television camera. 223,410, 4-11-72, Cl. D61-1.
 Larson, Orville W., to Ampex Corp. Combined magnetic tape cassette transport and radio. 224,316, 7-18-72, Cl. D26-14.
 Larue, Phillip G., to Calculator Corp. Outdoor inclinometer. 223,157, 3-21-72, Cl. D23-85.
 Lash, Thomas E.: See—
 Brooks, Philip L., Davies, Lash, Maloney, and Nordberg. 225,647.
 La Telephone Industrielle et Commerciales "Telle": See—
 Lepolx, Louis L. 225,237.
 La Torre, Jean. Finger ring or similar article. 225,079, 11-7-72, Cl. D45-10.
 Lauer, Darrel A., to Ampex Corp. Magnetic tape duplicator. 223,928, 6-20-72, Cl. D26-14.
 Lauer, Donald G., C. C. Woodring, and J. A. Rinaldi, to J. C. Penney Co., Inc. Vanity sink. 224,308, 7-18-72, Cl. D23-58.
 Lauer, Robert J., to Lahr/Simons Inc. Tape storing cabinet or the like. 224,497, 8-1-72, Cl. D6-189.
 Laughlin, Clayton A., to Arthur Salm, Inc. Thermometer or similar article. 223,211, 3-28-72, Cl. D52-7.
 Laughlin, Clayton A., to General Foods Corp. Activity toy. 223,847, 6-13-72, Cl. D34-15.
 Laughlin, Clayton A., to Arthur Salm Inc. Article of flatware. 225,177, 11-21-72, Cl. D54-12.
 Laughon, Thomas C., to Eastman Kodak Co. Design for photo-finish console. 224,165, 7-4-72, Cl. D61-1.
 Laughon, Thomas C., to Eastman Kodak Co. Design for film cutter. 224,449, 7-25-72, Cl. D61-1.
 Laurel Line Products: See—
 Axelrod, Barry. 225,283.
 Laurtech International Co.: See—
 Marsh, William J. 224,708.
 Lausch, John W. Support for concrete reinforcing rod. 223,701, 5-30-72, Cl. D8-228.
 Lawson, Bruce F. Pulling tool or similar article. 224,080, 7-4-72, Cl. D8-14.
 Lawton, Edward H., to Owens-Illinois, Inc. Bottle. 224,381, 7-25-72, Cl. D9-1.
 Lax, Michael, to Formica Corp. Combined bathtub and shower module. 223,607, 5-16-72, Cl. D23-49.
 Lax, Michael, to Formica Corp. Combined bathtub and shower module. 223,608, 5-16-72, Cl. D23-49.
 Lax, Michael, to Formica Corp. Modular shower stall. 223,609, 5-16-72, Cl. D23-57.
 Lax, Oscar, to The Bennington Co. Chair. 222,831, 1-11-72, Cl. D15-11.
 Lax, Oscar, to The Bennington Co. Lounge chair. 222,832, 1-11-72, Cl. D15-11.

- Lax, Oscar, to The Bennington Co. Dresser. 222,888, 1-25-72, Cl. D3—8.
- Layton, Howard M., to Interlab, Inc. Multi-stage micro-circuit cleaning station. 223,470, 4-18-72, Cl. D49—11.
- La Zar, Ralph M.: *See*—
Herbst, Walter B., and La Zar. 224,552.
- La Zar, Ralph M., and W. B. Herbst. Kite. 225,350, 12-5-72, Cl. D34—15.
- Lea, Melvin A., to Onelda Ltd. Spoon or similar article. 224,562, 8-1-72, Cl. D54—12.
- Lea, Melvin A., to Onelda Ltd. Spoon or similar article. 224,563, 8-1-72, Cl. D54—12.
- Lea, Melvin A., to Onelda Ltd. Spoon or similar article. 225,028, 10-31-72, Cl. D54—12.
- Lear-Siegler, Inc.: *See*—
Bonzer, Lawrence W. 224,752.
- Learing Products, Inc.: *See*—
Gale, John A., Young, and Menke. 224,029.
- Learned, Addison W., III and R. C. Slide rule. 223,683, 5-23-72, Cl. D52—6.
- Learned, Rosalie C.: *See*—
Learned, Addison W., III and R. C. 223,683.
- Leaver, Gardner, to Steelcase Inc. Chair. 224,188, 7-11-72, Cl. D6—20.
- Leaver, Gardner, to Steelcase Inc. Table. 225,598, 12-26-72, Cl. D6—29.
- Leda Cars Ltd.: *See*—
Terry, Leonard E. 223,542.
- Lee, Allen. Eyeglasses or the like. 223,296, 4-4-72, Cl. D57—1.
- Lee, Charles R. Font of type. 225,463, 12-12-72, Cl. D64—12.
- Lee, Hue R. Multiple dwelling structure. 224,094, 7-4-72, Cl. D13—1.
- Lee, Janice L. Writing paper or the like. 224,842, 9-26-72, Cl. D59—14.
- Lee, Robert M. Bracelet. 224,257, 7-11-72, Cl. D45—7.
- Lee, William, Jr. Frame for a baby crib. 224,822, 9-26-72, Cl. D5—5.
- Legere, Alan E. Combined comb and cannister carrier. 223,736, 5-30-72, Cl. D86—10.
- Lehman, Benjamin J.: *See*—
Burger, Francis J., III, Stevenson, and Lehman. 224,688.
- Lehmann, Andre, and A. Fumey, to PORTESCAP. Watch test stand. 223,857, 6-13-72, Cl. D52—1.
- Lehnardt, John A., to Sears, Roebuck and Co. Wrench. 224,677, 8-29-72, Cl. D8—28.
- Lelgh, Eloise M. Cover for a bed head board or similar article. 225,277, 11-28-72, Cl. D6—198.
- Leigh Products, Inc.: *See*—
Minick, Harold N. 225,404.
- Leino, Kenneth W., to Borg-Warner Corp. Chair. 224,858, 10-3-72, Cl. D6—65.
- Leisure Dynamics Inc.: *See*—
Koch, Bruce A. 223,630.
- Leitch, Alexander L., and A. Gable. Deck chair. 224,859, 10-3-72, Cl. D6—66.
- Leitch, Alexander L., and A. Gable. Deck chair. 224,860, 10-3-72, Cl. D6—66.
- Leman, Donald E., to Ampex Corp. Magnetic tape cassette transport. 224,315, 7-18-72, Cl. D26—14.
- Le Marquand, Andre, to Catena Watch Co. S.A. Wrist watch. 223,272, 4-4-72, Cl. D42—8.
- Lennox, Clarence R. Snow scooter. 223,715, 5-30-72, Cl. D34—15.
- Lenz, Gerald L.: *See*—
Webb, Ronald C., and Lenz. 224,312.
- Leone, Sal, to Louis Marx & Co., Inc. Toy vehicle. 225,550, 12-19-72, Cl. D34—15.
- Leong, Henry, T. Johnson, and J. R. Fortier, to Federal Pacific Electric Co. Electrical thermostat. 225,678, 12-26-72, Cl. D52—7.
- Leopoldi, Norbert. Telephone rest. 224,543, 8-1-72, Cl. D26—14.
- Leotta, Samuel S.: *See*—
Myers, Earl D., and Leotta. 223,548.
- Lepolx, Louis L., to La Telephonie Industrielle et Commerciaux "Telic." Intercommunications set. 225,237, 11-28-72, Cl. D26—14.
- LeRoue, Lloyd J. Combination hollow fish pole and reel housing. 224,400, 7-25-72, Cl. D22—23.
- Lesch, Eugene H. Golf club. 224,418, 7-25-72, Cl. D34—5.
- Le "rappeur Sillans": *See*—
Barrault, Jean-Louis. 223,791.
- Le Brothers Co.: *See*—
Thomson, Ernest F. 223,807.
- Lein, Henry. Harp. 223,727, 5-30-72, Cl. D56—1.
- Levin, Monte L.: *See*—
Paulson, Marice G., Kelleher, Price, and Levin. 223,932.
- Levine, Linda E., and D. A. Zippel. Pillow. 224,993, 10-31-72, Cl. D3—9.
- Levine, Linda E., and D. A. Zippel. Pillow. 225,392, 12-12-72, Cl. D3—9.
- Levow, Lawrence, to Harman-Kardon Inc. Combined phonograph turntable, base, and cassette player or similar article. 225,457, 12-12-72, Cl. D56—4.
- Levow, Lawrence, and C. Yurdin, to Acrodyne, Inc. Data-terminal. 222,883, 1-25-72, Cl. D26—5.
- Lew, Wing G., assignor of a fractional part interest to Jack Bazz. Bubble level. 223,635, 5-16-72, Cl. D52—6.
- Lewis, Edgar R., Jr.: *See*—
Pfueger, Albert, Jr., and Lewis. 223,519.
- Lewis, Edgar R., Jr., and Lewis. 223,520.
- Lewis, G. B. Co.: *See*—
Mears, Fred. 224,369.
- Lewis, Gerald D. Shoe horn. 224,365, 7-18-72, Cl. D86—10.
- Lewis, Gerald F. Bookholder or similar article. 225,499-500, 12-19-72, Cl. D6—106.
- Lewis, Reese: *See*—
Edgar, Howard M., and Lewis. 222,997.
- Lexalite Corp.: *See*—
Smith, Earl E. 222,885.
- Li, Tony. Exercising weight. 223,843, 6-13-72, Cl. D34—5.
- Libby, Erin, and J. H. Christopher, to Mattel, Inc. Figure toy. 222,867, 1-18-72, Cl. D34—4.
- Liberman, Milton. Electrical connector. 223,921, 6-20-72, Cl. D26—1.
- Library Resources Inc.: *See*—
Specht, Paul B. 223,474.
- Lichnecker, Harold A., Support for reinforcing rod. 223,803, 6-13-72, Cl. D8—228.
- Liddle, David E., and G. W. Lambroff, to Owens-Illinois. Cabinet for message display panel. 224,947, 10-17-72, Cl. D96—12.
- Lieberman, Joseph. Casing for toy voice. 224,977, 10-24-72, Cl. D52—20.
- Liesner, Joe W.: *See*—
Coolidge, John E., Liesner, Murray, and O'Neill. 224,709.
- Life Support Equipment Corp.: *See*—
Gray, Bernard N., and Burke. 225,469.
- Libit Industrial Co., Ltd.: *See*—
Tanka, Norihito. 223,552.
- Lilliston Corp.: *See*—
Moore, William G. 225,551.
- Lilly, Eli, and Co.: *See*—
Hayes, Thomas H., and Zinbauer. 223,334.
- Lim, Enghua, to Monsanto Co. Monolithic light emitting semiconductor display chip. 224,538, 8-1-72, Cl. D26—5.
- Lim, Enghua, to Monsanto Co. Monolithic light emitting semiconductor display. 224,835, 9-26-72, Cl. D26—5.
- Limacher, Robert W.: *See*—
Gallagher, Edward L., Limacher, and Inlow. 225,379.
- Lincoln Mfg. Co., Inc.: *See*—
Jewell, Donald K. 224,585.
- Lindgren, Wallace I. Tool handle structure. 223,333, 4-11-72, Cl. D8—83.
- Lindley, Donald C., W. W. Kinzie, and G. L. Runyan, to Rotec, Inc. Pallet. 225,397, 12-12-72, Cl. D14—3.
- Lindner, William R. Housing for a clock. 225,427, 12-12-72, Cl. D42—7.
- Lindstrom, Karl H., to Aktiebolaget Electrolux. Vacuum cleaner. 223,773, 6-6-72, Cl. D49—14.
- Linford, Amasa M.: *See*—
Smith, Donald E., and Linford. 223,617.
- Lingert, Ralph E., and R. E. Keyes, to The Finn Equipment Co. Particulate material distributor for utilization on oil pollution spills. 223,051, 3-7-72, Cl. D55—1.
- Link, Manfred, to Triumph Werke Nuernberg A.G. Desk top electronic calculator. 223,301, 4-4-72, Cl. D64—11.
- Lip Societe Anonyme d'Horlogerie: *See*—
De Baschmakoff, Francois. 225,426.
- Lippisch, Hangwind F.: *See*—
Moizen, Charles F., and Lippisch. 223,267.
- Lischeron, Joseph A. Bicycle cover. 224,373, 7-18-72, Cl. D90—6.
- Littelfuse, Inc.: *See*—
Brown, William L. 224,113.
- Little, Cedric K. Snowplow. 225,355, 12-5-72, Cl. D35—2.
- Litton Business Systems, Inc.: *See*—
Burridge, Robert E. 224,541.
- Litton Systems, Inc.: *See*—
Anderson, Harold C. 223,359.
- Livingston, Elmer R.: *See*—
Wallace, Frank C., and Livingston. 224,391.
- Lluch, Alberto P., to Perfumeria Parera, S.A. Combined bottle and closure therefor. 223,437, 4-18-72, Cl. D9—131.
- Lluch, Alberto P., to Perfumeria Parera, S.A. Combined bottle and closure therefor. 223,438, 4-18-72, Cl. D9—169.
- Locas, Bernard, to Geoform Designs, Inc. Table. 225,596, 12-26-72, Cl. D6—20.
- Lockheed Aircraft Corp.: *See*—
Hurkamp, Charles H. 223,869.
- Lockwood, Earl E. Chair. 225,197, 11-28-72, Cl. D6—71.
- Loesch, Ivan L., to Spacer Furnishings Corp. Chair. 222,906, 2-1-72, Cl. D15—1.
- Loewy, Raymond. Kitchen cabinet. 223,840, 6-13-72, Cl. D33—19.
- Logan, Ralph H., to Burlington Industries, Inc. Separable lap tray table unit. 224,194, 7-11-72, Cl. D6—138.
- Lohmann, Larry J.: *See*—
Mansur, Fred E., Lohmann, Wojcik, and Martel. 224,111.

- Lola Cars Ltd.: *See*—
Broadley, Eric H. 222,917.
- Lone Star Lantainer Corp.: *See*—
Gray, Lawrence E. 224,692.
- Long, Douglas G., and R. S. Waters, to Sunbeam Corp. Combined illuminable makeup mirror and vanity case. 223,068, 3-7-72, Cl. D86—10.
- Long, Morris A., to Yorker Mfg. Inc. Closure for liquid containers. 223,812, 6-13-72, Cl. D9—287.
- Long, William D.: *See*—
Fell, Ferol S., Long, Wells, and Ten Eyck. 223,466.
- Longarzo, Roland. Combined writing implement and holder. 223,014, 2-22-72, Cl. D74—17.
- Longarzo, Roland, to Consolidated Foods Corp. Writing implement holder. 223,476, 4-18-72, Cl. D74—5.
- Longfield, Robert V., and B. C. Bibb. Animal toy or similar article. 223,266, 4-4-72, Cl. D34—15.
- Looms, Peter, to Flowers a la Carte, Inc. Flower cart. 223,104, 3-14-72, Cl. D14—3.
- Lopez, Ulises M., M. I. Septimus, H. A. Holzwarth, and J. D. Wark, to Cavatron Corp. Electrosurgical unit. 224,070, 6-27-72, Cl. D83—901.
- Lorch, Leonard G. Mobile. 223,933, 6-20-72, Cl. D29—1.
- Lorenz, Leo J., and W. E. Bean, to Massey-Ferguson Inc. Tractor. 225,521, 12-19-72, Cl. D14—3.
- Lorenz, Leo J., and W. E. Bean, to Massey-Ferguson Inc. Combined grille and peripheral gasket for a tractor. 224,650, 8-22-72, Cl. D14—18.
- Lorenz, Leo J., and W. E. Bean, to Massey-Ferguson Inc. Grille for a tractor. 224,651, 8-22-72, Cl. D14—18.
- Lotus Components Ltd.: *See*—
Chapman, Anthony C. B. 222,919.
- Love, J. E., Co. The: *See*—
Neal, Archie E., and Storms. 225,356.
- Lovejoy, Robert B., B. Ashby, D. V. Bosley, and R. J. Douglas, to Mattel, Inc. Tow tower for simulated flight control. 224,253, 7-11-72, Cl. D34—15.
- Lowrance Electronics Mfg. Corp.: *See*—
Gentzen, Ronald F. 224,762.
- Lubrastart International: *See*—
Grigsby, Gilbert R. 225,282.
- Lucey, Edward D.: *See*—
Bisch, Clifford B., Lucey, Noel, and Ronzani. 223,197.
- Lucey, Edward D., and D. G. Molerin, to International Business Machines Corp. Magnetic disk, fixed head file. 223,158, 3-21-72, Cl. D26—5.
- Ludwick, Ellen V. B.: *See*—
Abend, Chester J., Bienkowski, and Ludwick. 224,495.
- Luebs, Donald F.: *See*—
Ashby, Frederick R., and Luebs. 222,856.
- Lund, Allan W. Snow sled body. 223,822, 6-13-72, Cl. D14—24.
- Lund, George T., 50% to Maria Barbara Lund. Hand exerciser. 224,547, 8-1-72, Cl. D34—5.
- Lund, Maria B.: *See*—
Lund, George T. 224,547.
- Lunn Laminates Inc.: *See*—
Merck, Walter J., and Thompson. 222,842.
- Lu Van Inc.: *See*—
Van Syoc, Auburn G. 225,190.
- Luxenberg, Morris: *See*—
Benrube, Jack S. 223,077.
- Lyons, Maurice E. Umbrella. 224,462, 7-25-72, Cl. D88—3.
- Lyons, Lambert F. Four-channel medical condition monitor. 225,089, 11-7-72, Cl. D83—1.
- Lyons, Lambert F. Eight-channel medical condition monitor. 225,909, 11-7-72, Cl. D83—1.
- MCA Technology, Inc.: *See*—
May, Edmond A. 225,069.
- M. I. Sales, Inc.: *See*—
Halpern, Arthur. 225,016.
- M-J Metal Products, Inc.: *See*—
Davis, Manuel J., and Nelson. 224,904.
- MSI Data Corp.: *See*—
Kelso, James W. 223,002.
- Maasshoff, Gunter, to Ekco Products, Inc. Packaging container. 223,146, 3-21-72, Cl. D9—219.
- MacKeen, Anthony D.: *See*—
Lapointe, Yves A., and MacKeen. 224,907.
- MacKeen, Anthony D., and Lapointe. 225,105.
- MacKeen, Anthony D., to Skiroule Limitee. Fuel tank for snowmobiles. 223,346, 4-11-72, Cl. D14—24.
- MacKeen, Anthony D., to Bombardier Ltd. Snowmobile. 224,005, 6-27-72, Cl. D14—24.
- MacKeen, Anthony D., to Skiroule Limitee. Snowmobile. 224,527, 8-1-72, Cl. D14—24.
- MacKeen, Anthony D., to Bombardier Ltd. Snowmobile sleigh. 224,908, 10-10-72, Cl. D14—27.
- MacKeen, Anthony, and Y. A. Lapointe, to Bombardier Ltd. Snowmobile seat. 223,604, 5-16-72, Cl. D14—24.
- MacKeen, Anthony, and Y. A. La Pointe, to Bombardier Ltd. Snowmobile seat. 222,858, 1-18-72, Cl. D14—24.
- MacKeen, Anthony D., and Y. A. Lapointe, to Bombardier Ltd. Snowmobile. 225,105, 11-14-72, Cl. D14—24.
- Mackey, Marvin A. Hanging fountain lamp. 225,563, 12-19-72, Cl. D48—23.
- Macowski, William, to Ketcham & McDougall, Inc. Paper shredder. 225,179, 11-21-72, Cl. D55—1.
- Macowski, William, Jr., to Ketcham & McDougall, Inc. Combined measuring spoon and weighing tray for diet food portions. 223,276, 4-4-72, Cl. D44—10.
- Macowski, William, Jr., to Ketcham & McDougall, Inc. Measuring spoon. 223,277, 4-4-72, Cl. 44—29.
- MacTarnahan, Robert M. Currency hand truck. 222,986, 2-22-72, Cl. D14—3.
- Maddestra, Robert: *See*—
Munn, David E., and Maddestra. 224,223.
- Madelra, John W., to Plastikote Co. Container for paint applicator and rubbing compound. 223,562, 5-9-72, Cl. D9—196.
- Mader, Robert J. Ash tray. 223,181, 8-14-72, Cl. D85—2.
- Madi, Alfred W., to John Oster Mfg. Co. Electric beverage heater. 223,171, 3-21-72, Cl. D44—26.
- Madlem, John R. Burial vault. 222,880, 1-25-72, Cl. D19—1.
- Maeda, Hisashi: *See*—
Yamamoto, Mititaka, Yaida, and Maeda. 224,273.
- Mag-Nif, Inc.: *See*—
Knox, William W. 222,945.
- Mag-Nif, Inc.: *See*—
Knox, William W. 222,946.
- Mag-Nif, Inc.: *See*—
Knox, William W. 222,947.
- Mag-Nif, Inc.: *See*—
Knox, William W. 222,948.
- Magic Marker Corp.: *See*—
Schnur, Martin, and Appel. 223,688.
- Magic Mold, Inc.: *See*—
Blendenfeld, Myron. 224,700.
- Magnetic Forming Corp.: *See*—
Bolen, Hugh R., Jr. 224,757.
- Magnus, John, and R. Milek. South bay punt. 223,303, 4-4-72, Cl. D71—1.
- Magram, Ronald L. Bedstead for children. 223,225, 4-4-72, Cl. D5—4.
- Magram, Ronald L. Bedstead for children. 223,559, 5-9-72, Cl. D5—4.
- Mahler, Kenneth. Mat. 224,138, 7-4-72, Cl. D44—31.
- Majjala, William R. Convertible motor bicycle. 225,106, 11-14-72, Cl. D14—24.
- Malsuk, Melvin O., and W. H. Fullington, to Pet Inc. Mobile display cart. 224,059, 6-27-72, Cl. D80—9.
- Majewski, Eugene J. Storage rack for wine bottles or the like. 222,950, 2-8-72, Cl. D44—29.
- Majewski, Eugene J. Stamp pad or the like. 223,056, 3-7-72, Cl. D64—10.
- Majewski, Eugene J. Visual manipulative coordination toy. 225,057, 11-7-72, Cl. D25—1.
- Makino, Katsuhiko: *See*—
Kawamura, Ken, and Makino. 223,512.
- Makino, Katsuhiko, to Matsushita Electric Industrial Co., Ltd. Clock radio. 225,358, 12-5-72, Cl. D42—7.
- Makino, Katsuhiko, to Matsushita Electric Industrial Co., Ltd. Digital clock radio. 225,359, 12-5-72, Cl. D42—7.
- Mallovich, John D., and V. M. Butcher's spinal cord remover. 226,621, 12-26-72, Cl. D11—1.
- Malkovich, Vern M.: *See*—
Malkovich, John D., and V. M. 225,621.
- Mallinckrodt Chemical Works: *See*—
Tejera, Luis H. 223,643.
- Mallon, Paul C., to Rubbermaid Inc. Bath mat or similar article. 223,278, 4-4-72, Cl. D44—31.
- Mallory, P. R., & Co. Inc.: *See*—
White, Maurice Y. 222,897.
- Mamet, Alfred: *See*—
Dietrich, Gerhard, and Mamet. 225,462.
- Mamly Koki Kabushiki Kaisha: *See*—
Takata, Denkich. 223,124.
- Mamly Koki Kabushiki Kaisha: *See*—
Takata, Denkich. 223,125.
- Manderfield, Ellen B., to Onelda Ltd. Spoon. 222,953, 2-8-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 223,037, 2-29-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 223,213, 3-28-72, Cl. D54—12.
- Manderfield, Ellen B., to General Mills, Inc. Spoon or similar article. 223,960, 6-20-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 224,261, 7-11-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 224,264, 7-11-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 224,265, 7-11-72, Cl. D54—12.
- Manderfield, Ellen B., to General Mills, Inc. Spoon or similar article. 224,626, 8-15-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 224,267, 7-11-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 225,020, 10-31-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 225,021, 10-31-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 225,022, 10-31-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 225,023, 10-31-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 225,024, 10-31-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 225,025, 10-31-72, Cl. D54—12.
- Manderfield, Ellen B., to Onelda Ltd. Spoon or similar article. 225,026, 10-31-72, Cl. D54—12.

Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 225,027, 10-31-72, Cl. D54-12.
 Mango, Joseph R., to Sunbeam Corp. Heater. 224,224, 7-11-72, Cl. D23-122.
 Mango, Joseph R., to Sunbeam Corp. Heater. 224,226, 7-11-72, Cl. D23-122.
 Mango, Joseph R., to Sunbeam Corp. Heater. 224,227, 7-11-72, Cl. D23-122.
 Mann, Kingsley M.: See—
 Flites, Larry L., Mann, and Utrecht. 225,049.
 Mann, Peter G., and I. K. White, to Essoldo Furnishers Ltd. Seat. 223,246, 4-4-72, Cl. D15-8.
 Manning, James P., to Republic Molding Corp. Table. 223,538, 5-2-72, Cl. D33-14.
 Manning, James P., to Republic Molding Corp. Chair. 224,765, 9-19-72, Cl. D6-66.
 Mansel Kogyo Kabushiki Kaisha: See—
 Goto, Kenjiro. 224,339.
 Mansour, George L.: See—
 Carey, Lewis S., and Mansour. 225,473.
 Mansur, Fred E., L. J. Lohmann, G. E. Wojcik, and R. A. Martel, to Owens-Illinois, Inc. Multiple gas discharge display device. 224,111, 7-4-72, Cl. D26-5.
 Manufacture Quenot Mabo: See—
 Quenot, Andre. 223,288.
 Quenot, Andre. 225,173.
 Quenot, Andre. 225,174.
 Marathon Equipment & Supply Ltd.: See—
 Mason, Robert W. 223,712.
 Marceca, Robert K.: See—
 Kohl, Frederick G., and Marceca. 224,633.
 Kohl, Frederick G., and Marceca. 224,634.
 Kohl, Frederick G., and Marceca. 225,045.
 March Engineering Ltd.: See—
 Herd, Robert J. 223,543.
 Marchetti, Giovanni, to Bardahl Mfg. Corp. Container for liquids or the like. 225,101, 11-14-72, Cl. D9-175.
 Marg, Joseph. Combined pour spout and hanger for a container. 223,339, 4-11-72, Cl. D9-290.
 Margrill, Anita. Playground sprinkler. 225,328, 12-5-72, Cl. D23-6.
 Marhold, Werner: See—
 Bruce, Roger K., Marhold, and Adickes. 225,619.
 Marick, Louis, to United States of America, Army. Tire. 225,040, 10-31-72, Cl. D90-20.
 Marick, Louis, to United States of America, Army. Tire. 225,041, 10-31-72, Cl. D90-20.
 Mark, Rebecca. Cosmetic vanity tray. 224,175, 7-4-72, Cl. D86-10.
 Marks, Robert G. Air-operated press frame. 224,451, 7-25-72, Cl. D83-1.
 Marlin Toy Products, Inc.: See—
 Thornell, Ernest L. 224,661.
 Marois, Aurele, Inc.: See—
 Marois, Leonard. 224,426.
 Marois, Leonard, to Aurele Marois Inc. Sleigh. 224,426, 7-25-72, Cl. D34-15.
 Maroni, Carlo. Combined wristwatch and strap. 224,913, 10-10-72, Cl. D42-8.
 Marose, Glen E., to Snowmobile, Ltd. Emblem display bar for snowmobile. 224,526, 8-1-72, Cl. D14-6.
 Marotto, Robert A.: See—
 Torro, John A., and Marotto. 225,047.
 Marquart, Clarence F., to Landshire Products, Inc. Warming oven. 224,064, 6-27-72, Cl. D81-10.
 Marsalka, Joseph P., and J. P. Kennedy, to Design Elements, Inc. Acoustic coupler. 224,317, 7-18-72, Cl. D26-14.
 Marsh, Jere C.: See—
 Schleser, Warren J., and Marsh. 224,616.
 Schleser, Warren J., and Marsh. 224,649.
 Marsh, Robert, Enterprises, Inc.: See—
 Marsh, William J. 224,707.
 Marsh, William J. 225,325.
 Marsh, William J. 225,328.
 Marsh, William J. 225,327.
 Marsh, William J., to Robert Marsh Enterprises, Inc. Water softener cabinet. 224,707, 9-5-72, Cl. D23-3.
 Marsh, William J., to Laurtech International Co. Water softener cabinet. 224,708, 9-5-72, Cl. D23-3.
 Marsh, William J., to Robert Marsh Enterprises, Inc. Combined brink tank and water softener unit. 225,325, 12-5-72, Cl. D23-3.
 Marsh, William J., to Robert Marsh Enterprises, Inc. Brine tank cabinet. 225,326, 12-5-72, Cl. D23-3.
 Marsh, William J., to Robert Marsh Enterprises, Inc. Water softener cabinet. 225,327, 12-5-72, Cl. D23-3.
 Marshall, Edward M. Grill for cooking food. 223,308, 4-4-72, Cl. D81-10.
 Marshall, Johnny H. Clothes hanger transporter. 223,416, 4-11-72, Cl. D80-8.
 Martel, Richard A.: See—
 Mansur, Fred E., Lohmann, Wojcik, and Martel. 224,111.
 Martel, Richard A., to Owens-Illinois, Inc. Segmented numeric display panel. 225,235, 11-28-72, Cl. D26-5.
 Martelet, Donald G., to Sears, Roebuck and Co. Top sewing machine. 224,944, 10-17-72, Cl. D70-1.
 Martens, LeRoy, to Lar-Mar-Co. Props, Inc. Propeller. 223,218, 3-28-72, Cl. D71-1.
 Martin, Albert W., to Ampex Corp. Magnetic tape transport. 223,363, 4-11-72, Cl. D26-5.
 Martin, Bruce S. Portable lounge seat. 222,996, 2-22-72, Cl. D15-8.
 Martin, John C., and E. G. Rescho, to Bunn-O-Matic Corp. Hot water deflector for a coffee urn. 223,036, 2-29-72, Cl. D44-26.
 Martin, John C., and E. J. Knierly, to Bunn-O-Matic Corp. Funnel for prepackaged coffee. 225,077, 11-7-72, Cl. D44-26.
 Martin, John C., and E. J. Knierly, to Bunn-O-Matic Corp. Funnel for prepackaged coffee. 225,078, 11-7-72, Cl. D44-26.
 Martin, Paul S.: See—
 Fortier, Jean R., and Martin. 225,677.
 Martin, Roy C. Combined book support rack and planter. 223,837, 6-13-72, Cl. D33-2.
 Martin, Thomas B. Combined motor and speed control. 223,495, 4-25-72, Cl. D26-5.
 Martini, Alfredo, and R. Coizet. Table lamp. 224,338, 7-18-72, Cl. D48-20.
 Martini, Alfredo, and G. Zerbi. Table. 224,873, 10-3-72, Cl. D6-177.
 Martuch, Leon L., to Scientific Anglers Inc. Weight forward tapered by fishing line. 222,881, 1-25-72, Cl. D22-99.
 Martuch, Leon L., to Scientific Anglers Inc. Fisherman's shoe. 223,792, 6-13-72, Cl. D2-310.
 Mary, Louis, & Co., Inc.: See—
 Fusco, Frank C. 224,429.
 Leone, Sal. 225,550.
 Yeoh, Allan. 225,168.
 Mascia, Carmen T., and R. B. Bagguley, to Continental Can Co., Inc. Can or similar article. 224,291, 7-18-72, Cl. D9-216.
 Mascia, Carmen T., and R. B. Bagguley, to Continental Can Co., Inc. Can or similar article. 224,382, 7-25-72, Cl. D9-216.
 Mascia, Carmen T., and R. B. Bagguley, to Continental Can Co., Inc. Can or similar article. 224,383, 7-25-72, Cl. D9-216.
 Mascia, Carmen T., and R. B. Bagguley, to Continental Can Co., Inc. Can or similar article. 224,640, 8-22-72, Cl. D9-216.
 Mascia, Carmen T., and R. B. Bagguley, to Continental Can Co., Inc. Can or similar article. 224,641, 8-22-72, Cl. D9-216.
 Mascia, Carmen T., and R. B. Bagguley, to Continental Can Co., Inc. Can or similar article. 224,642, 8-22-72, Cl. D9-216.
 Mascia, Carmen T., and R. B. Bagguley, to Continental Can Co., Inc. Can or similar article. 224,643, 8-22-72, Cl. D9-216.
 Mascia, Carmen T., and R. B. Bagguley, to Continental Can Co., Inc. Can or similar article. 224,644, 8-22-72, Cl. D9-216.
 Mascia, Carmen T., and R. B. Bagguley, to Continental Can Co., Inc. Can or similar article. 224,645, 8-22-72, Cl. D9-216.
 Mashburn, Joseph B. Pet sleeping bag. 225,121, 11-14-72, Cl. D30-1.
 Mason, Robert W., to Marathon Equipment & Supply Limited. Roof insulation ventilator. 223,712, 5-30-72, Cl. D23-153.
 Massey-Ferguson Inc.: See—
 Lorenz, Leo J., and Bean. 225,521.
 Massey-Ferguson Industries Ltd.: See—
 Ball, Douglas C. 222,866.
 Ball, Douglas C. 223,582.
 Ball, Douglas C. 224,636.
 Ball, Douglas C. 224,637.
 Lorenz, Leo J., and Bean. 224,650.
 Lorenz, Leo J., and Bean. 224,651.
 Mastercrafters Clock Corp.: See—
 Hancock, John L. 224,551.
 Mastis, Victor, to The Berg Mfg. Co. Gladhand connector. 224,107, 7-4-72, Cl. D23-44.
 Mastrovito, Donald P.: See—
 DiPietro, Michael J., and M. A., and Mastrovito. 223,667.
 Matsuda, Haru K., to Ampex Corp. Magnetic tape cassette transport. 223,930, 6-20-72, Cl. D26-14.
 Matsuda, Haru K., to Ampex Corp. Magnetic tape cassette transport. 223,931, 6-20-72, Cl. D26-14.
 Matsuda, Haru K., to Ampex Corp. Magnetic tape cassette transport. 224,313, 7-18-72, Cl. D26-14.
 Matsuda, Mutsuhide, and E. Yoshio, to Canon Dabushkiki Kaisha. Camera. 222,845, 1-11-72, Cl. D61-1.
 Matsumoto, Rikio, to Asahi Engineering Co., Ltd., Sonyo Kako Co., Ltd., and Hitachi Ltd. Combined bottle and ice tray. 224,087, 7-4-72, Cl. D9-10.
 Matsuo, Kojiro: See—
 Momose, Kelgo, Ishihara, and Matsuo. 223,107.
 Matsushita Electric Industrial Co., Ltd.: See—
 Ebata, Takemi. 224,410.
 Ishikawa, Shoji. 223,504.
 Ishikawa, Shoji. 223,506.
 Katayama, Isao. 223,729.
 Makino, Katsuhiko. 225,358.
 Makino, Katsuhiko. 225,359.
 Momose, Kelgo, Ishihara, and Matsuo. 223,107.
 Momose, Kelgo, Ishihara, and Motonaka. 223,923.
 Nakamura, Yasunobu, Sumino, Sugihara, Ueda, and Terauchi. 224,346.
 Nishimura, Koichi. 224,544.
 Ohwa, Ryujii. 223,547.
 Ohwa, Ryujii. 223,548.
 Sato, Hiroshi, Horikoshi, Nakajima, and Yamamoto. 223,216.

Matsushita Electric Industrial Co., Inc.: See—Continued
 Sumino, Tadashi, Tokuda, Ueda, Nakamura, Sugihara, and Terauchi. 225,372.
 Wada, Hideo, Nashinoki, Kato, and Murakami. 223,294.
 Yazawa, Hiroaki, and Iida. 225,412.
 Matsushita Electric Works, Ltd.: See—
 Ono, Taisuke, and Ito. 225,186.
 Matsuura, Norio. Clamp for connecting tubular members. 225,307, 12-5-72, Cl. D8-228.
 Mattel, Inc.: See—
 Bass, Sidney, Baeza, and Christopher. 224,240.
 Bass, Sidney, Baeza, Christopher, and Kuchta. 224,249.
 Bosley, Denis V., and Wood. 224,659.
 Chilton, Frederick R., Barczak, and Merendino. 224,434.
 Crain, Philip W., Schlaue, and Tam. 224,250.
 Frederick, Phyllis, Sims, and Zimmerman. 224,546.
 Gilford, Ira B., and Nash. 222,868.
 Hock, Donald D. 224,244.
 Hock, Donald D. 224,245.
 Hock, Donald D., Feigenbaum, Korte, and Baynes. 224,243.
 Kughta, Frank J., and May. 223,842.
 Libby, Erin, and Christopher. 222,867.
 Lovejoy, Robert B., Ashby, Bosley, and Douglas. 224,253.
 Merendino, Salvatore, Barczak, and Lambach. 224,270.
 Miller, Anthony D., Gav, and Smedley. 223,167.
 Shield, Richard L. 223,541.
 Zimmerman, Charles R., and Tuccio. 223,085.
 Matteson, Martin L. Auxiliary wheel for snowmobile. 224,705, 9-5-72, Cl. D14-6.
 Matwey, Paul, to GAF Corp. Electrostatic copying machine. 225,279, 11-29-72, Cl. D61-1.
 Matys, Stanley J., to Igniters, Inc. Igniter. 223,711, 5-30-72, Cl. D23-129.
 Matys, Stanley J., to Igniters, Inc. Igniter or similar article. 224,041, 6-27-72, Cl. D23-129.
 Matza, Edward C., to LTV Aerospace Corp. Stationary traffic. 224,845, 9-26-72, Cl. D72-1.
 Maulbetsch, John L.: See—
 Burris, Donald J., and Maulbetsch. 225,569.
 Burris, Donald J., and Maulbetsch. 225,570.
 Maurer, Dorothee M. Wall rack for holding household articles. 222,912, 2-1-72, Cl. D83-3.
 Maxemovich, Marco, to Uniroyal, Inc. Pneumatic tire tread and buttress. 224,375, 7-18-72, Cl. D90-20.
 May, Edmond A., to MCA Technology, Inc. Audio speaker. 225,069, 11-7-72, Cl. D26-14.
 May, Richard L.: See—
 Kughta, Frank J., and May. 223,842.
 Mayer, Frank, & Associates, Inc.: See—
 Nielsen, Robert B. 223,733.
 Mazur, Harry E. Cradle support for a camera. 223,637, 5-16-72, Cl. D61-1.
 Mazure, Miguel R. Easy chair. 224,857, 10-3-72, Cl. D6-58.
 Mazzetti, Mark S.: See—
 Bauer, Douglas M., and Mazzetti. 224,048.
 McArthur, David T., to Survival Oriented Systems Co. Survival lamp or similar article. 225,564, 12-19-72, Cl. D48-24.
 McCarthy, Daniel J., to Converse Rubber Corp. Athletic shoe. 223,531, 5-2-72, Cl. D2-310.
 McCarthy, Daniel J., to Converse Rubber Corp. Spike shoe sole. 225,595, 12-26-72, Cl. D2-321.
 McCaul, James F., III, to Schokkbron Products Corp. Building frame. 224,292, 7-18-72, Cl. D13-1.
 McClain, Patricia E. Combined keg and carrying strap therefor. 225,310, 12-5-72, Cl. D9-170.
 McClellan, Bingham A., to McClellan Industries, Inc. Artificial fishing lure. 223,490, 4-25-72, Cl. D23-927.
 McClellan Industries, Inc.: See—
 McClellan, Bingham A. 223,490.
 McCormick, Walter S., Jr.: See—
 Bixler, Loring C., Davis, Lahey, McCormick and Wiener. 224,605.
 Bixler, Loring C., Davis, Lahey, McCormick and Wiener. 224,682.
 Bixler, Loring C., Davis, McCormick, and Wiener. 223,762.
 McCue, Daniel E., to Eldon Industries, Inc. Hydraulic scale. 224,560, 8-1-72, Cl. D52-10.
 McCulloch Corp.: See—
 Burkett, Wilford B., Carsello, and Hazzard. 224,811.
 McCutcheon, Charles T., and Cole. Snowmobile shelter. 223,705, 5-30-72, Cl. D13-1.
 McDermott & Green, Inc.: See—
 Green, Lawrence E., and McDermott. 225,424.
 McDermott, William G.: See—
 Green, Lawrence E., and McDermott. 225,424.
 McDonald, Bernard, to Medical Testing Systems, Inc. Diagnostic clinical instrument having supporting means. 224,065, 6-27-72, Cl. D83-12.
 McDonald, Bernard, to Medical Testing Systems, Inc. Diagnostic clinical instrument. 224,066, 6-27-72, Cl. D83-12.
 McDonald, Bernard, to Medical Testing Systems, Inc. Diagnostic clinical instrument. 224,067, 6-27-72, Cl. D83-12.
 McDonald, Bernard, to Medical Testing Systems, Inc. Diagnostic multiple clinical instrument. 224,068, 6-27-72, Cl. D83-12.
 McDowell, William W., III. Font of type. 224,694, 8-29-72, Cl. D64-12.
 McGarvey, John N.: See—
 Genaro, Donald M., McGarvey, and Rosebrock. 225,113.
 Genaro, Donald M., Kelly, McGarvey, and Stokes. 224,117.
 Gibson, Richard D., McGarvey, and Woodard. 222,990.
 McGaw Division of American Hospital Supply Corp.: See—
 Edward, Frank M. 224,408.
 McGhie, Russell P.: See—
 Douglas, Livingston C., Miles, and McGhie. 223,900.
 McGoff, Francis P. Waste paper basket. 223,402, 4-11-72, Cl. D49-30.
 McGowan, John T., to International Multifoods Corp. Fondue heating stand. 225,169, 11-21-72, Cl. D44-10.
 McGredy, Samuel IV, to Armstrong Nurseries, Inc. Rose plant. 3,111, 4-11-72, Cl. D22.
 McIlheran, Louis C. Coin dispenser. 223,858, 6-13-72, Cl. D52-4.
 McIlvain, Howard H., to Borden Inc. Milk case or similar article. 223,810, 6-13-72, Cl. D9-177.
 McKay, Nicholas D. Cartridge comb. 224,848, 9-26-72, Cl. D86-8.
 McKee, Fred C. Clothespin. 222,841, 1-11-72, Cl. D49-1.
 McKee, Robert S.: See—
 McKee, Robert S., and Williams. 224,649.
 McKee, Robert S., and M. D. Williams, to Robert S. McKee. Automobile body. 224,649, 8-22-72, Cl. D14-3.
 McKenna, Walter J. Bookmark. 223,694, 5-23-72, Cl. D97-2.
 McKeon, Stephen F., to Sperry Rand Corp. Face panel for a card catalog drawer. 224,875, 10-3-72, Cl. D6-192.
 McKeon, Stephen F., to Sperry Rand Corp. Face panel for a card catalog drawer. 224,954, 10-24-72, Cl. D6-192.
 McKiney, James C., and W. D. West, to Morton-Norwich Products, Inc. Bottle. 224,732, 9-12-72, Cl. D9-40.
 McKissick, Lance R., and A. R. Wilson, to The Goodyear Tire & Rubber Co. Tire. 223,317, 4-4-72, Cl. D90-20.
 McLaren, Bruce, Motor Racing Ltd.: See—
 McLaren, Bruce L. 225,017.
 McLaren, Bruce L. to Bruce McLaren Motor Racing Ltd. Model racing car. 225,017, 10-31-72, Cl. D34-15.
 McMahon, Raymond J. Rosary medal. 225,443, 12-12-72, Cl. D45-16.
 McMahon, Raymond J. Rosary medal. 225,444, 12-12-72, Cl. D45-16.
 McMahon, Raymond J. Rosary medal. 225,445, 12-12-72, Cl. D45-16.
 McMahon, Raymond J. Rosary medal. 225,446, 12-12-72, Cl. D45-16.
 McMahon, Rebecca M., to Syracuse China Corp. Dinner plate or similar article. 225,255, 11-28-72, Cl. D44-15.
 McMillan, Jack A., to Circustime, Inc. Building. 223,239, 4-4-72, Cl. D13-1.
 McMillan, Jack A., to Circustime, Inc. Sign. 224,076, 6-27-72, Cl. D96-12.
 McNair, Samuel L., to The Songrand Corp. Hydrotherapy bath unit. 225,471, 12-12-72, Cl. D83-1.
 McNamara Racing K.G.: See—
 Karasek, Josef H. 222,916.
 Karasek, Josef H. 225,663.
 McNamee, Joseph H. Camper for a pick-up truck. 223,755, 6-8-72, Cl. D14-27.
 McNeil, William J. Residential building. 224,883, 10-3-72, Cl. D13-1.
 McNeil, William J. Residential building. 224,884, 10-3-72, Cl. D13-1.
 McNeil, William J. Residential building. 224,885, 10-3-72, Cl. D13-1.
 McNeil, William J. Residential building. 224,886, 10-3-72, Cl. D13-1.
 McNeil, William J. Residential building. 225,518, 12-19-72, Cl. D13-1.
 McPherson, Alexander W. Cast body ram. 223,684, 5-23-72, Cl. D55-1.
 McPherson, Alexander W. Cylindrical body ram. 223,685, 5-23-72, Cl. D55-1.
 McQuarrie, Harvey K., to Electrohome Ltd. Housing for a combined radio receiver and record player or similar article. 223,962, 6-20-72, Cl. D56-4.
 McQuarrie, Harvey K., to Electrohome Ltd. Housing for a combined radio receiver and record player or similar article. 224,161, 7-4-72, Cl. D56-4.
 McVay, Robert B., to United McGill Corp. Tire mold-press or the like. 225,568, 12-19-72, Cl. D54-13.
 Mead Johnson & Co.: See—
 Wiethop, Robert R. 223,910.
 Wiethop, Robert R. 223,911.
 Wiethop, Robert R. 223,912.
 Wiethop, Robert R. 224,103.
 Wiethop, Robert R. 224,529.
 Wiethop, Robert R. 224,653.
 Meadows, Jerome E. Material handling hook. 222,901, 2-1-72, Cl. D8-14.
 Mechanic, Bernard I. Finger ring. 225,080, 11-7-72, Cl. D45-10.
 Mechanic, Bernard I. Finger ring. 225,081, 11-7-72, Cl. D45-10.
 Mechanic, Bernard I. Finger ring. 225,438, 12-12-72, Cl. D45-10.
 Mechanic, Bernard I. Finger ring. 225,439, 12-12-72, Cl. D45-10.
 Mechanic, Bernard I. Finger ring. 225,440, 12-12-72, Cl. D45-10.
 Meaney, Daniel J., Jr., to Jen's Inc. Pizza tray. 225,254, 11-28-72, Cl. D44-1.
 Mears, Fred, to G. B. Lewis, Co. Storage bin. 224,369, 7-18-72, Cl. D87-1.
 Meckenstock, Fritz: See—
 Klose, Odo. 223,999.
 Medequip Corp.: See—
 Miller, Walter M. 225,502.

Medical Testing Systems, Inc.: *See*—
 McDonald, Bernard. 224,065.
 McDonald, Bernard. 224,066.
 McDonald, Bernard. 224,067.
 McDonald, Bernard. 224,068.
 Meditech Energy and Environmental Corp.: *See*—
 Bauer, Douglas M., and Mazzetti. 224,048.
 Medina, S. A.: *See*—
 Fresard, Marcel. 223,508.
 Fresard, Marcel. 224,943.
 Jimenez, Antonio. 225,451.
 Mehl, Ross M., to Plato Products, Inc. Soldering iron holder. 223,482, 4-25-72, Cl. D8—71.
 Meisner, Edward H., to Red Devil Inc. Razor blade scraper. 223,401, 4-11-72, Cl. D49—23.
 Mel-Mar Industries, Inc.: *See*—
 Palumbo, William J. 223,751.
 Melton, Jerry T., to Televue, Inc. Protection viewer cabinet. 223,861, 6-13-72, Cl. D81—1.
 Memmel, Robert O. Valet rack. 224,878, 10-3-72, Cl. D6—247.
 Memorex Corp.: *See*—
 Weiss, Reinhold M., and Dennehey. 222,910.
 Weiss, Reinhold M., and Dennehey. 222,911.
 Weiss, Reinhold M., and Dennehey. 223,029.
 Weiss, Reinhold M., and Dennehey. 223,739.
 Menke, William K.: *See*—
 Gale, John A. Young, and Menke. 224,029.
 Messer, William J., and F. G. Hoffmann, to Triple C Co. File handle. 223,186, 3-28-72, Cl. D8—94.
 Mercadante, Ottorino N., to Corning Glass Works. Plate or the like. 225,670, 12-26-72, Cl. D44—15.
 Merchandising Aids, Inc.: *See*—
 Teller, Howard S., Jr. 222,814.
 Merck, Walter J., and H. E. Thompson, to Lunz Laminates, Inc. Waste receptacle or similar article. 222,842, 1-11-72, Cl. D49—30.
 Merendino, Salvatore: *See*—
 Chilton, Frederick R., Barczak, and Merendino. 224,434.
 Merendino, Salvatore, E. Barczak, and A. D. Lambach, to Mattel, Inc. Cabinet for keyboard instrument or the like. 224,270, 7-11-72, Cl. D56—2.
 Merritt, Irving H. Coffee table. 223,458, 4-18-72, Cl. D33—14.
 Merritt, Irving H. Coffee table. 223,499, 4-25-72, Cl. D33—14.
 Mery S.A.: *See*—
 Gunfaus, Juan. 222,892.
 Meserve, Don J., to Colonial Knife Co., Inc. Handle member for a folding pocket knife or the like. 224,676, 8-29-72, Cl. D8—99.
 Metafab Industries, Inc.: *See*—
 Apple, Charles N., Jr. 225,501.
 Metaframe Corp.: *See*—
 Willinger, Allan H. 224,031.
 Willinger, Allan H. 224,238.
 Metaphraphic Systems, Inc.: *See*—
 Kinsinger, William C. 223,054.
 Metal Cabinet Co.: *See*—
 Blendl, John. 225,162.
 Metal Dynamics Corp.: *See*—
 Rachman, Isadore B. 225,378.
 Metal Window-Products, Inc.: *See*—
 Shaper, Roger T., and Germann. 223,642.
 Meth, Harry, and S. Lake, to General Mills Fun Group, Inc. Three-dimensional turtle figure. 224,239, 7-11-72, Cl. D34—2.
 Meth, Harry, to General Mills Fun Group, Inc. Owl figure. 223,162, 3-21-72, Cl. D29—23.
 Meth, Harry, to General Mills Fun Group, Inc. Toy chicken figure. 223-613, 5-16-72, Cl. D34—2.
 Meth, Harry, and A. Greenberg, to General Mills Fun Group, Inc. Domino-action toy or similar article. 223,676, 5-23-72, Cl. D34—15.
 Meth, Harry, and S. Lake, to General Mills Fun Group, Inc. Toy dog figure. 223,164, 3-21-72, Cl. D34—2.
 Meth, Harry, and S. Lake, to General Mills Fun Group, Inc. Toy train engine. 223,615, 5-16-72, Cl. D34—15.
 Meth, Harry, and S. Lake, to General Mills Fun Group, Inc. Toy elephant figure. 223,936, 6-20-72, Cl. D34—2.
 Mettler Instrumente AG: *See*—
 Lang, Karl, and H. Steiner. 223,198.
 Metzger, Harold W., to Fischer & Porter Co. Glass tube flowmeter. 223,775, 6-6-72, Cl. D52—6.
 Meyer, Rudl P., to Glovemakers, Inc. Wind chimes, or similar article. 224,553, 9-26-72, Cl. D72—1.
 Michaud, Albert J., Jr., and J. F. Graham, to Honeywell Inc. Tape drive or similar article. 224,656, 8-22-72, Cl. D26—5.
 Michel, Helmut: *See*—
 Costa, Allan A., and Michel. 224,989.
 Michels, Victor B. Ornamental showerhead. 224,532, 8-1-72, Cl. D23—35.
 Michlap, Dewitt A., and J. D. Wright. Pet house. 224,685, 8-29-72, Cl. D30—1.
 Michlap, Dewitt A., and J. D. Wright. Pet house. 224,686, 8-29-72, Cl. D30—1.
 Microform Data Systems, Inc.: *See*—
 Kool, Bram. 223,177.
 Mikami, Tatsuya, to Tokyo Shibaura Electric Co., Ltd. Automatic ticket examining device. 224,026, 6-27-72, Cl. D28—91.
 Mikami, Tatsuya: *See*—
 Nagata, Kazuteru, and Mikami. 224,450.
 Mikami, Tatsuya, to Tokyo Shibaura Electric Co., Ltd. Desk electronic calculator. 224,352, 7-18-72, Cl. D26—5.

Mikami, Tatsuya, to Tokyo Shibaura Electric Co., Ltd. Desk electronic calculator. 224,452, 7-25-72, Cl. D26—5.
 Mikell, Leroy. Cocktail table. 223,839, 6-13-72, Cl. D33—14.
 Milan, Nicholas M. Height gauge. 224,146, 7-4-72, Cl. D52—6.
 Milani, Francesco, to Gretag Aktiengesellschaft. Photographic film notch. 224,271, 7-11-72, Cl. D81—1.
 Millek, Raymond: *See*—
 Magnus, John, and Millek. 223,303.
 Miles, Gilbert D.: *See*—
 Douglas, Livingston C., Miles, and McGhie. 223,900.
 Miles, John R., to Gulf+Western Industries, Inc. Traffic signal. 225,082, 11-7-72, Cl. D46—32.
 Miles Laboratories, Inc.: *See*—
 Gomel, Richard H., Ogar, and Tomiach. 225,627.
 Miller, Anthony D., D. J. Gay, and W. H. Smedley, to Mattel, Inc. Toy projector. 223,167, 3-21-72, Cl. D34—15.
 Miller, Arthur C. Threaded insert. 223,231, 4-4-72, Cl. D8—272.
 Miller, Donald J. Compartmentalized medicine tray for rest homes. 225,466, 12-12-72, Cl. D83—1.
 Miller, Earl A. Illuminated ornament. 225,369, 12-5-72, Cl. D48—20.
 Miller, Eugene B. Hand-held garden hoe. 225,205, 11-28-72, Cl. D8—12.
 Miller, F. ed P. Protective shield for bathtub faucets or similar article. 224,486, 8-1-72, Cl. D6—86.
 Miller, George F., and R. Tintary, to Ajax Hardware Mfg. Corp. Knob. 223,433, 4-18-72, Cl. D8—144.
 Miller, George T.: *See*—
 Kirkman, David F., and Miller. 223,573.
 Miller, Herman, Inc.: *See*—
 Propst, Robert L., and Kelley. 224,096.
 Propst, Robert L., and Kelley. 224,730.
 Propst, Robert L., and Kelley. 224,751.
 Watanabe, Donald, and Duester. 224,768.
 Miller, Leon G., to Bud Radio, Inc. Housing for electronic equipment. 224,229, 7-11-72, Cl. D26—5.
 Miller, Leon G., to Bud Radio, Inc. Cabinet for electronic equipment. 224,710, 9-5-72, Cl. D26—5.
 Miller, M. Louis. Victory Engineering Corp. Digital thermometer. 224,147, 7-4-72, Cl. D52—7.
 Miller, Philip G.: *See*—
 Henning, Steven A., and Miller. 223,848.
 Henning, Steven A., and Miller. 225,072.
 Henning, Steven A., and Miller. 225,073.
 Henning, Steven A., and Miller. 225,344.
 Miller, Terry G. Price tag holder. 225,208, 11-28-72, Cl. D8—244.
 Miller, Walter M., to Medequip Corp. Interrogation apparatus. 225,502, 12-19-72, Cl. D6—181.
 Millipore Corp.: *See*—
 Danti, Bernard R., and Brecka. 223,581.
 Millner, John N. Desk set. 224,810, 9-19-72, Cl. D74—5.
 Mills, Iain C., to Dunlop Holdings Ltd. Tire. 223,887, 6-13-72, Cl. D90—20.
 Mills, Iain C., to Dunlop Holdings Ltd. Tire. 225,082, 11-7-72, Cl. D90—20.
 Mills, Thomas, to Canrad Precision Industries, Inc. Cabinet for a sun lamp. 225,561, 12-19-72, Cl. D48—20.
 Mills, Thomas C., to Bunker Ramo Corp. Crimping machine. 225,682, 12-26-72, Cl. D55—1.
 Mills, Truett P. Golf club. 225,419, 12-12-72, Cl. D34—5.
 Milu, Ernest, to All Tech Industries, Inc. Convertible table for utility, games, and bumper pool. 223,539, 5-2-72, Cl. D34—3.
 Minas, Harold Y., to Alpa Corp. Photometer. 223,349, 4-11-72, Cl. D16—2.
 Miner, Loyal F., fractional part interest to Robert T. Ehninger. Vase for flowers or the like. 222,886, 1-25-72, Cl. D29—28.
 Minick, Harold N., to Leigh Products, Inc. Enclosure for wall mounted fireplace. 225,404, 12-12-72, Cl. D23—94.
 Minka, George F.: *See*—
 Chrysopoulos, Demosthenis, and Minka. 223,159.
 Minka, George F., to TRW Data Systems, Inc. Combined electronic keyboard and stand therefor. 224,014, 6-27-72, Cl. D26—5.
 Minka, George F., to TRW Data Systems, Inc. Electronic computer unit. 224,020, 6-27-72, Cl. D26—5.
 Minka, George F., and F. E. Bustamante, to TRW Data Systems, Inc. Keyboard terminal. 224,021, 6-27-72, Cl. D26—5.
 Minnesota Mining and Mfg. Co.: *See*—
 Anderson, Gail A. 223,611.
 Cole, Richard H., and Frand. 224,658.
 Del Corno, Marco, and Butti. 222,819.
 Rosenlund, Gordon T. 223,438.
 Minolta Camera Kabushiki Kaisha: *See*—
 Katayama, Isao. 223,729.
 Mirando, Louis: *See*—
 Polk, Edwin R., Polansky, and Mirando. 223,479.
 Mirow, Gregory, to Corning Glass Works. Plate or the like. 224,136, 7-4-72, Cl. D44—15.
 Misenko, Stephen B. Reminder index box. 223,732, 5-30-72, Cl. D74—2.
 Mr. Christmas Inc.: *See*—
 Hermanson, Terry. 224,237.
 Mitchell, Kenneth A. Thermo container. 223,533, 5-2-72, Cl. D9—178.
 Miyachi, Einosuke, and N. Aratani, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle. 223,790, 6-6-72, Cl. D90—8.
 Miyahira, Chosuke. Table ornament. 225,238, 11-28-72, Cl. D29—23.

Miyake, Takao: *See*—
 Suganoya, Yoshio, and Miyake. 225,579.
 Miyake, Takao, to Sharp Kabushiki Kaisha (Sharp Corp.). Electronic cooking range. 225,578, 12-19-72, Cl. D81—4.
 Miyoshi, Iwawo, to Kyocero Kogyo Kabushiki Kaisha. File drawer face panel. 225,604, 12-26-72, Cl. D6—192.
 Mizukawa, Shigeo: *See*—
 Fukuda, Masahiro, and Mizukawa. 223,409.
 Mizukawa, Shigeo, and M. Fukuda, to Fuji Shashin Film Kabushiki Kaisha. Motion picture camera. 223,407, 4-11-71, Cl. D61—1.
 Mizukawa, Shigeo, and M. Fukuda. Motion picture camera. 224,163, 7-4-72, Cl. D61—1.
 Mlachnik, Albert A.: *See*—
 Pharris, John A., and Mlachnik. 223,017.
 Mobil Oil Corp.: *See*—
 Noyes, Elliot F. 223,440.
 Mockovak, Robert A.: *See*—
 Daniels, John F., and Mockovak. 224,921.
 Modern Plastic Sales: *See*—
 Vaughan, Woodrow E., and Reed. 223,743.
 Modumatic Industries, Inc.: *See*—
 Kretschmer, H. John. 225,230.
 Mogl, Shochi. Transparent facial structure analyzer. 223-312, 4-4-72, Cl. D86—10.
 Mogliner, Geoffrey A., and R. D. Johnson: said Johnson assignor to said Mogliner. Game. 224,974, 10-24-72, Cl. D34—15.
 Mohasco Industries, Inc.: *See*—
 Fisher, Morris F. 224,590.
 Fisher, Morris F. 224,861.
 Fisher, Morris F. 225,144.
 Fisher, Morris F. 225,147.
 Fisher, Morris F. 225,148.
 Nash, Stanley P. 224,887.
 Peterson, James T. 223,064.
 Winrow, Thomas. 224,889.
 Moisture Vent, Inc.: *See*—
 De Marco, Salvatore R. 225,529.
 Molerin, Dallas G.: *See*—
 Lucey, Edward D., and Molerin. 223,158.
 Molex Inc.: *See*—
 Baumann, Bruno. 225,065.
 Mollno, Daniel D., and J. H. Gottlieb, to IDEX, Inc. Pin. 223,467, 4-18-72, Cl. D45—19.
 Molzen, Charles F., to Rubbermaid Inc. Snow sled. 223,268, 4-4-72, Cl. D34—15.
 Molzen, Charles F., and H. F. Lippisch, to Rubbermaid Inc. Ski scooter. 223,267, 4-4-72, Cl. D34—15.
 Momose, Kelgo, K. Ishihara, and K. Matsuo, to Matsushita Electric Industrial Co., Ltd. Carbonic electrode bar for gouging purposes. 223,107, 3-14-72, Cl. D26—1.
 Momose, Kelgo, K. Ishihara, and Y. Motonaka, to Matsushita Electric Industrial Co., Ltd. Battery. 223,923, 6-20-72, Cl. D26—6.
 Monarch Marking System Co., The: *See*—
 Mulholland, Robert P. 223,138.
 Monarch Marking Systems, Inc.: *See*—
 Mulholland, Robert P. 225,650.
 Mondy, Peter. Holder for golf tees and marker. 223,264, 4-4-72, Cl. D34—5.
 Monocraft, Inc.: *See*—
 Chernow, Michael, and Yarkoni. 225,192.
 Monogram Industries, Inc.: *See*—
 Freedman, Stuart I. 223,240.
 Monsanto Co.: *See*—
 Hills, David G. 223,436.
 Lim, Enghua. 224,538.
 Lim, Enghua. 224,835.
 Mont, Howard I., and E. Woznicki, to Allied Chemical Corp. Font of type. 223,515, 4-25-72, Cl. D64—12.
 Moore, William G., to Lilliston Corp. Design of tines for rotary hoe. 225,551, 12-19-72, Cl. D39—1.
 Moore, William G., to Lilliston Corp. Rotary hoe. 225,553, 12-19-72, Cl. D39—1.
 Mora, Robert T. Steering wheel rim. 224,100, 7-4-72, Cl. D14—30.
 Moran, Helmar D.: *See*—
 Einstein, Alfred C., Wolff, and Moran. 225,240.
 Moranduzzo, Darlo. Christmas ornament. 224,411, 7-25-72, Cl. D29—1.
 Moranduzzo, Darlo. Christmas ornament. 224,892, 10-3-72, Cl. D29—1.
 Morgenstern, Stanley W.: *See*—
 Abuzza, Zachary P., and Morgenstern. 224,413.
 Mori Denki Mfg. Co., Ltd.: *See*—
 Mori, Shinjiro, and Takamatsu. 223,390.
 Mori, Shinjiro, and T. Takamatsu, to Mori Denki Mfg. Co., Ltd. Combined socket handle and lamp guard. 223,390, 4-11-72, Cl. D48—24.
 Morris, Astrid: *See*—
 Straub, Dorothy A., and Morris. 224,183.
 Straub, Dorothy A., and Morris. 224,184.
 Morris, Eleanor R. Arm sling. 222,898, 1-25-72, Cl. D83—1.
 Morris, Lowell H., to Morris Manufacturing Co. Back-pack frame. 224,631, 8-15-72, Cl. D87—5.
 Morris Manufacturing Co.: *See*—
 Morris, Lowell H. 224,631.
 Morris, Stephen W. Lamp. 225,260, 11-28-72, Cl. D48—20.
 Morrison, Howard J., and M. I. Glass, to Marvin Glass & Associates. Child's riding vehicle. 224,124, 7-4-72, Cl. D34—15.
 Morrison Molded Fiber Glass Co.: *See*—
 Hughes, Edward E., III. 222,799.
 Morse, Guy A., Jr. Vending machine. 225,084, 11-7-72, Cl. D52—3.
 Morse, John B.: *See*—
 Bullock, Edward K., Burke, Conner, Diets, Morse, and Tilley. 223,730.
 Morton, Robert W. Abrasive type hand tool. 224,390, 7-25-72, Cl. D8—90.
 Morton-Norwich Products, Inc.: *See*—
 McKinney, James C., and West. 224,732.
 Motivation Systems, Inc.: *See*—
 Glisson, James T. 223,492.
 Glisson, James T. 225,519.
 Motonaka, Yoshimi: *See*—
 Momose, Kelgo, Ishihara, and Motonaka. 223,923.
 Motorola, Inc.: *See*—
 Krumin, Donald K., and Toth. 222,955.
 Krumin, Donald K., and Toth. 223,097.
 Schmitz, Raymond J., Sellers. 224,713.
 Mox, Dana W., to Karma Division of Brandt Automatic Cashier. Beverage dispenser. 223,325, 4-4-72, Cl. D94—3.
 Muchenberger, Ernest, to Gretag Aktiengesellschaft. Photographic printer. 224,844, 9-26-72, Cl. D61—1.
 Muehlberger, Erich, and R. P. De La Vega, to Geotell, Inc. Electrical plasma-jet torch. 223,986, 6-27-72, Cl. D8—30.
 Mueller, Edward G., to George Risk Industries, Inc. Push-button switch. 224,114, 7-4-72, Cl. D26—13.
 Muessel, Dan C., and W. Eisenreich, to Eaton Yale & Towne Inc. Electric control key. 223,431, 4-18-72, Cl. D8—136.
 Mulholland, Robert P., to The Monarch Marking System Co. Tag attacher. 223,138, 3-21-72, Cl. D8—51.
 Mulholland, Robert P., to Monarch Marking Systems, Inc. Portable data set. 225,650, 12-26-72, Cl. D26—5.
 Mullen, Charles F. Building complex. 223,485, 4-25-72, Cl. D13—1.
 Mulligan, Robert J., to Richardson-Merrell Inc., Display box. 225,098, 11-14-72, Cl. D9—235.
 Munn, David E., and R. Maddestra, to Damon Corp. Electrical measurement demonstrator or similar article. 224,223, 7-11-72, Cl. D25—1.
 Munster Simms Engineering Ltd.: *See*—
 Eves, Randal M., and Brian. 224,594.
 Murakami, Kenji. Firearm. 223,153, 3-21-72, Cl. D22—6.
 Murakami, Kenji. Firearm. 223,154, 3-21-72, Cl. D22—6.
 Murakami, Kenji. Firearm. 224,530, 8-1-72, Cl. D22—6.
 Murakami, Tsutomu: *See*—
 Wada, Hideo, Nashinoki, Kato, and Murakami. 223,294.
 Murata, Minoru: *See*—
 Anzal, Shiro, Murata, Nishikawa, and Hanakata. 223,865.
 Anzal, Shiro, Murata, Nishikawa, and Hanakata. 224,116.
 Murphy, G. W., Industries, Inc.: *See*—
 Boldt, Melvin H. 225,295.
 Boldt, Melvin H. 225,296.
 Boldt, Melvin H. 225,298.
 Boldt, Melvin H. 225,299.
 Boldt, Melvin H. 225,300.
 Murphy, James V., to Electronic Molding Corp. Electronic terminal. 223,109, 3-14-72, Cl. D26—1.
 Murphy, Kyran M. Combined mirror and flashlight. 223,524, 4-25-72, Cl. D86—10.
 Murray, James H.: *See*—
 Coolidge, John E., Liesner, Murray, and O'Neill. 224,709.
 Murray Ohio Mfg. Co., The: *See*—
 Schreckengost, Viktor. 223,071.
 Murray, Robert J. Clock. 223,382, 4-11-72, Cl. D42—7.
 Muse, George B. Construction block. 224,890, 10-3-72, Cl. D18—2.
 Muse, George B. Block. 225,006, 10-31-72, Cl. D18—2.
 Musitronic Inc.: *See*—
 Olson, Percy D. 224,052.
 Musy, Raymond, to Accurist S.A. Case for a pendant watch. 224,131, 7-4-72, Cl. D42—8.
 Musy, Raymond, to S.A. Accurist. Watch case. 224,948, 10-17-72, Cl. D42—8.
 Muys, Louis G., and A. G. Keller, to Strombecker Corp. Toy dump truck. 222,837, 1-11-72, Cl. D34—15.
 Myers, Earl D., and S. S. Leotta, to Ohaus Scale Corp. Scale. 223,548, 5-2-72, Cl. D52—19.
 Myers, Gerald D.: *See*—
 King, James R., and Myers. 223,122.
 NAR Enterprises, Inc.: *See*—
 Roy, Norman A. 223,080.
 NSM-Apparatebau G.m.b.H., Kommanditgesellschaft: *See*—
 Friedrich, Horst. 225,685.
 Friedrich, Horst. 225,686.
 Nadler, Martin S. Moccasin. 223,481, 4-25-72, Cl. D2—268.
 Naff, Frederic L., Jr.: *See*—
 Ortega, Charles J., and Naff. 223,360.
 Nagano, Masashi: *See*—
 Sato, Norio, and Nagano. 222,820.
 Nagata, Hideaki, to Kabushiki Kaisha Kōparu. Clock. 224-799, 9-19-72, Cl. D42—7.
 Nagata, Hideaki, to Kabushiki Kaisha Kōparu. Clock. 224,800, 9-19-72, Cl. D42—7.
 Nagata, Hideaki, to Kabushiki Kaisha Kōparu. Clock. 224-801, 9-19-72, Cl. D42—7.
 Nagata, Kazuteru, and T. Mikami, to Tokyo Shibaura Electric Co., Ltd. Copier. 224,450, 7-25-72, Cl. D61—1.
 Nagel, Robert I. Vehicle marker light lens. 223,953, 6-20-72, Cl. D48—32.
 Nagel, Robert I., to Triangle Mobile Home Products, Inc. Vehicle marker light lens. 223,954, 6-20-72, Cl. D48—32.

Nagel, Robert I., to Triangle Mobile Home Products, Inc. Vehicle marker light lens. 223,955, 6-20-72, Cl. D48-32.
 Nagel, Robert I., to R. E. Dietz Co. Warning lens. 224,258, 7-11-72, Cl. D48-32.
 Nakajima, Iwao: *See*—
 Saito, Hiroshi, Horikoshi, Nakajima, and Yamamoto. 223,216.
 Nakamura, Yasunobu, T. Sumino, O. Sugihara, K. Ueda, and M. Terauchi, to Matsushita Electric Industrial Co., Ltd. Television receiver. 224,346, 7-18-72, Cl. D56-4.
 Nakata, Norio. Switch. 224,015, 6-27-72, Cl. D26-13.
 Nakata, Norio. Switch. 224,016, 6-27-72, Cl. D26-13.
 Nance, John, to JG Furniture Co., Inc. Desk. 223,046, 2-29-72, Cl. D33-7.
 Nance, John, to JG Furniture Co., Inc. Desk. 225,046, 11-7-72, Cl. D6-157.
 Narda Microwave Corp., The: *See*—
 Banks, George, and Iannone. 223,293.
 Nash, Alan W. B.: *See*—
 Gilford, Ira B., and Nash. 222,868.
 Nash, Cornelia R. Pillow. 223,135, 3-21-72, Cl. D3-9.
 Nash, Stanley P., to Mohasco Industries, Inc. Lounge chair. 224,887, 10-3-72, Cl. D15-1.
 Nashinoki, Sukeyoshi: *See*—
 Wada, Hideo, Nashinoki, Kato, and Murakami. 223,294.
 Nast, Robert. Combined contact printer and paper safe. 224,719, 9-5-72, Cl. D61-1.
 Nasta Industries, Inc.: *See*—
 Spiegel, Norman. 224,744.
 Spiegel, Norman. 225,654.
 Nathan, Leroy B. Bottle. 224,731, 9-12-72, Cl. D9-23.
 Nathanson, Heinz, to Heinz Nathanson Inc. Hook for shower curtains or the like. 225,612, 12-26-72, Cl. D8-248.
 Nathanson, Heinz, Inc.: *See*—
 Nathanson, Heinz. 225,612.
 National Can Corp.: *See*—
 Griese, Elmer W., Jr. 224,093.
 Zundel, Arthur P. 223,899.
 National Cash Register Co., The: *See*—
 Kaufman, James C., and Funkhouser. 223,963.
 National Mfg. Co., Inc.: *See*—
 Stahl, William J. 223,259.
 Stahl, William J. 223,260.
 Stahl, William J. 223,261.
 Stahl, William J. 223,262.
 National Steel Corp.: *See*—
 Rees, William H., and Solomon. 223,565.
 Saunders, William T. 224,962.
 Saunders, William T. 224,963.
 Saunders, William T. 224,964.
 National Union Electric Corp.: *See*—
 Hohulin, Samuel E., and Schaefer. 223,509.
 Nationwide Trailer Rental System Inc.: *See*—
 Baugh, Benjamin C., and Deines. 224,398.
 Natkanski, Zygmunt. Casing for a dial indicator. 223,472, 4-18-72, Cl. D52-6.
 Navara, Joseph. Triplex board used in pathology. 223,785, 6-6-72, Cl. D83-1.
 Neal, Archie E., and J. G. Storms, to The J. E. Love Co. Sickle guard for harvesters. 223,356, 12-5-72, Cl. D40-1.
 Nebiker, Fred R.: *See*—
 Alexander, William C., and Nebiker. 225,464.
 Neerincx, Joseph E., to Diks & Coenen N.V. Combined bunk bed head board, blackboard and folding desk or similar article. 223,331, 4-11-72, Cl. D5-4.
 Negami, Shin-ichi: *See*—
 Senda, Yasuo, and Negami. 223,298.
 Nehmer, Howard. Novelty type doll. 223,584, 5-9-72, Cl. D34-4.
 Nelson, Carl A.: *See*—
 Davis, Manuel J., and Nelson. 224,904.
 Nelson, Dan, and J. C. Hutton, to TRW Data Systems, Inc. Data terminal. 223,160, 3-21-72, Cl. D26-5.
 Nelson, John H., and R. C. Baird, Jr. Track vehicle. 225,320, 12-5-72, Cl. D14-3.
 Nelson, Robert A., to Everett A. E. Fagg. Dolphin-shaped boat. 224,361, 7-18-72, Cl. D71-1.
 Nelson, Stuart D.: *See*—
 Nelson, Wilford B., and S. D. 224,463.
 Nelson, Wilford B. and S. D. Squash knife. 224,463, 7-25-72, Cl. D89-1.
 Neptune Winch Corp.: *See*—
 Alleman, Benjamin D. 225,357.
 Neumann, Marcel, and B. L. Siegal: said Siegal assignor to said Neumann. Rotary diet reminder device. 222,893, 1-25-72, Cl. D52-6.
 New Hermes Engraving Corp.: *See*—
 Berlant, George. 223,217.
 Berlant, George. 224,756.
 Newby, Arthur W. Dispensing container. 224,508, 8-1-72, Cl. D9-9.
 Newman, Elizabeth, to The Petal Corp. Makeup heater. 223,691, 5-23-72, Cl. D86-10.
 Newman, James F., to Uniroyal, Inc. Pneumatic tire. 224,075, 6-27-72, Cl. D90-20.
 Newman, James F., to Uniroyal, Inc. Pneumatic tire tread and buttress. 224,377, 7-18-72, Cl. D90-20.
 Newman, James F., to Uniroyal, Inc. Pneumatic tire tread and buttress. 224,378, 7-18-72, Cl. D90-20.
 Newman, Jerome S. Dispensing container. 222,823, 1-11-72, Cl. D9-56.
 Newman, Jerome S. Dispensing container. 222,824, 1-11-72, Cl. D9-56.

Newman, Jerome S. Dispensing container. 222,825, 1-11-72, Cl. D9-56.
 Newman, Jerome S. Dispensing container. 222,826, 1-11-72, Cl. D9-56.
 Newman, Jerome S. Dispensing container. 222,827, 1-11-72, Cl. D9-56.
 Ney, David P. Building. 223,814, 6-13-72, Cl. D13-1.
 Nicol, Ronald, to Heinemann Electric Co. Design of an adaptor for a circuit breaker. 223,199, 3-28-72, Cl. D26-13.
 Nielsen, Robert B., to Frank Mayer & Associates, Inc. Cigarette merchandiser. 223,733, 5-30-72, Cl. D80-9.
 Nielsen, Watrons A., to Card, Inc. Canopy for a gasoline dispensing station. 223,442, 4-18-72, Cl. D13-1.
 Nlemann, James E., to American Standard, Inc. Kitchen faucet handle. 223,913, 6-20-72, Cl. D23-29.
 Nigro, Louis V., to The Gillette Co. Dispensing container for liquids or the like. 222,931, 2-8-72, Cl. D9-83.
 Nigro, Louis V., to The Gillette Co. Fluid dispenser package. 223,811, 6-13-72, Cl. D9-219.
 Nihon Kaibei Kogyo Kabushiki Kaisha: *See*—
 Kodaira, Yasuo. 225,111.
 Yasuo, Kodaira. 223,763.
 Nippon Concrete Industries Co., Ltd.: *See*—
 Watanabe, Shigeru. 223,238.
 Watanabe, Shigeru, Ishihara, and Kondo. 223,236.
 Watanabe, Shigeru, and Nunokawa. 223,237.
 Nippon Rubber Co., Ltd.: *See*—
 Oshima, Takeshi. 223,329.
 Nippondenso Kabushiki Kaisha: *See*—
 Takagi, Nobuyoshi, and Hattori. 223,603.
 Nishigami, Teiichi: *See*—
 Grange, Kenneth, Nishigami, and Harrison. 225,574.
 Nishigami, Teiichi, and C. A. Harrison, to Sears, Roebuck and Co. Sewing machine carrying case. 224,815, 9-19-72, Cl. D87-1.
 Nishikata, Goro, to Yehan Numata. Digital micrometer. 224,442, 7-25-72, Cl. D52-6.
 Nishikawa, Tatsuo: *See*—
 Anzai, Shiro, Murata, Nishikawa, and Hanakata. 223,865.
 Anzai, Shiro, Murata, Nishikawa, and Hanakata. 224,116.
 Nishimura, Koichi, to Matsushita Electric Industrial Co., Ltd. Tape player for automobile. 224,544, 8-1-72, Cl. D26-14.
 Nishino, Seiichi, K. Kato, and H. Akahori, to Hitachi, Ltd. Electron microscope. 223,669, 5-23-72, Cl. D26-5.
 Nix, William O.: *See*—
 Fitzgerald, Timothy P., Nix, and Sandeffer. 224,807.
 Nocero, Remy. Combined knife sharpener and meat carving fork. 224,637, 7-18-72, Cl. D44-29.
 Nockolds, Geoffrey. Fountain pen. 223,307, 4-4-72, Cl. D74-17.
 Noda, Michihiro: *See*—
 Sakai, Jiro, Kawaguchi, and Noda. 223,871.
 Sakai, Jiro, Kawaguchi, and Noda. 224,456.
 Noel, Howard S.: *See*—
 Bisch, Clifford B., Lucey, Noel, and Ronzani. 223,197.
 Nohmura, Ryotaro, to Talyo Kogyo Co., Ltd. Tent. 224,073, 6-27-72, Cl. D88-3.
 Noma Lites Canada Ltd.: *See*—
 Norton, Ian F. 225,498.
 Nooter Corp.: *See*—
 Clarkin, Edward J. 224,310.
 Norland Corp.: *See*—
 Congdon, George L., and Burkhalter. 223,522.
 Northgrave, Franklin D., and S. J. Cino, to London Winery Ltd. Stopper for bottle. 223,147, 3-21-72, Cl. D9-285.
 Northrop Corp.: *See*—
 Smith, Robert L. 223,342.
 Northrop, George S.: *See*—
 Jaffe, Martin A., Northrop, and Braun. 223,652.
 Jaffe, Martin A., Northrop, and Braun. 223,692.
 Norton, Ian F., to Noma Lites Canada Ltd. Tree stands. 225,498, 12-19-72, Cl. D6-105.
 Notarianni, Dominic F. Novelty tree. 224,236, 7-11-72, Cl. D29-1.
 Novak, Stanley M., Jr., to AMF Inc. Child's coaster vehicle. 224,255, 7-11-72, Cl. D34-15.
 Novak, Stanley M., Jr., to AMF Inc. Tricycle. 225,545, 12-10-72, Cl. D34-15.
 November, Daniel: *See*—
 Stehl, George R., and November. 222,909.
 Noyes, Elliot F., to Mobile Oil Corp. Gasoline service station island canopy with annular light fixture. 223,440, 4-18-72, Cl. D13-1.
 Nubla, Jesse L. Smoking appliance. 224,279, 7-11-72, Cl. D85-8.
 Numata, Yehan: *See*—
 Nishikata, Goro. 224,442.
 Nunokawa, Koji: *See*—
 Watanabe, Shigeru, and Nunokawa. 223,237.
 Nunn, Paul B. Bumper. 223,752, 6-6-72, Cl. D14-6.
 Nunn, Paul B. Bumper. 225,523, 12-19-72, Cl. D14-6.
 Nuortle, Paavo C. Rocking chair. 224,950, 10-24-72, Cl. D6-50.
 Nyquist, Thomas G. Golf cart. 223,345, 4-11-72, Cl. D14-3.
 Nyquist, Thomas G. Golf cart. 223,345, 4-11-72, Cl. D14-3.
 Nyrop, Morten E., to Simonsen & Weels Eftf. A/S. Support rack for medical implements. 223,202, 3-28-72, Cl. D33-3.
 Nyquist, Richard A.: *See*—
 Stoltz, Elmer J., Nyquist. 224,721.
 Oberhelm, Robert, to Braun A.G. Motion picture camera. 223,514, 4-25-72, Cl. D61-1.

Oberhelm, Robert, to Braun Aktiengesellschaft. Height measuring ruler or similar article. 225,019, 10-31-72, Cl. D52-6.
 Oberton, Gerald N., to Sanford Research Co. Pen desk set. 224,455, 7-25-72, Cl. D74-5.
 O'Brien, Gerard J. Audible training device or the like. 225,231, 11-28-72, Cl. D25-1.
 Obster, Martin, and A. Dietrich, to Optische Werke G. Rodenstock. Hinge for spectacle frame. 223,295, 4-4-72, Cl. Oceanology Systems Design: *See*—
 Collie, Alberto W. 223,673.
 Ochs, Pirmin, to Rodi & Wienenberger Aktiengesellschaft. Case for a pendant watch or the like. 223,273, 4-4-72, Cl. D42-8.
 Ochs, Pirmin, to Rodi & Wienenberger Aktiengesellschaft. Case for a pendant watch or the like. 223,274, 4-4-72, Cl. D42-8.
 Ocun, Morton, to The Gallstyn Co. Chafing dish for fondue or the like. 224,256, 7-11-72, Cl. D44-15.
 Odell, Russell B.: *See*—
 Frost, Marie H., and Odell. 224,325.
 Odom, James A., Jr.: *See*—
 Hill, Lyman L., Jr., Odom, and Wolfe. 224,047.
 Oelmann, Heinrich, Curtain fabric. 223,981, 6-20-72, Cl. D92-1.
 Oelmann, Heinrich, Curtain fabric. 223,982, 6-20-72, Cl. D92-1.
 Ogar, Frank L.: *See*—
 Gomel, Richard H., Ogar, and Tomlach. 225,627.
 Oglesbee, Richard K., to Anchor Hocking Corp. Carton for glasses. 223,809, 6-13-72, Cl. D9-176.
 Ohaus Scale Corp.: *See*—
 Myers, Earl D., and Leotta. 223,548.
 Ohtsu, Yutaka, to Citizen Watch Co., Ltd. Calculating machine. 223,965, 6-20-72, Cl. D64-11.
 Ohwa, Ryujl, to Matsushita Electric Industrial Co., Ltd. Desk lamp. 223,547, 5-2-72, Cl. D48-20.
 Ohwa, Ryujl, to Matsushita Electric Industrial Co., Ltd. Desk lamp. 223,588, 5-9-72, Cl. D48-20.
 Oil-Rite Corp.: *See*—
 Gruett, Donald G. 223,776.
 Okada, Sadao, to Kabushiki Kaisha Ricoh. Motion picture projector. 224,627, 8-15-72, Cl. D61-1.
 Okano, Masao, to Toyo Valve Co., Ltd. Valve handle. 223,914, 6-20-72, Cl. D23-30.
 Okuhara, Hidenori, and H. L. Mirrored cosmetic container. 224,608, 8-8-72, Cl. D86-10.
 Okuhara, Hidenori, and H. L. 224,608.
 Old World Arts, Inc.: *See*—
 Stilwell, Melvyn D. 223,439.
 Stilwell, Melvyn D. 224,830.
 Oldham, Mary E. Game board. 223,033, 2-29-72, Cl. D34-5.
 O'Leary, Charles M. Design for a table with reversible top or similar article. 223,765, 6-6-72, Cl. D33-14.
 Olinkraft, Inc.: *See*—
 Graser, Earl J. 224,204.
 Graser, Earl J. 224,205.
 Olivetti, Ing. C. & C. S.p.A.: *See*—
 Bellini, Mario. 225,533.
 Olmschied, Robert T. Combined washer and scaler for fish. 224,436, 7-25-72, Cl. D44-29.
 Olsen, Robert A., to American Hospital Supply Corp. Dental chair. 223,489, 4-25-72, Cl. D15-3.
 Olson, Percy D., to Musitronic, Inc. Multiple keyboard unit. 224,052, 4-27-72, Cl. D56-9.
 Olt, John D., to Pacific Handy Cutter, Inc. Pocket tool. 223,133, 8-14-72, Cl. D87-83.
 Omi, Kokiti: *See*—
 Kazuma, Koji, and Omi. 223,594.
 Omi, Donald E. Doll house. 223,500, 4-25-72, Cl. D34-15.
 Omron Tateisi Electronics Co.: *See*—
 Yamamoto, Mititaka, Yaida, and Maeda. 224,273.
 Onelda Ltd.: *See*—
 Conland, Robert S. 222,923.
 Lea, Melvin A. 224,562.
 Lea, Melvin A. 224,563.
 Lea, Melvin A. 225,028.
 Manderfield, Ellen B. 222,953.
 Manderfield, Ellen B. 223,037.
 Manderfield, Ellen B. 223,213.
 Manderfield, Ellen B. 224,261.
 Manderfield, Ellen B. 224,264.
 Manderfield, Ellen B. 224,265.
 Manderfield, Ellen B. 224,267.
 Manderfield, Ellen B. 225,020-7.
 Perry, Frank R. 222,924.
 Perry, Frank R. 224,266.
 Perry, Frank R. 225,030.
 Perry, Frank R. 225,456.
 Richmond, Colin B. 225,029.
 O'Neill, Robert A.: *See*—
 Coolidge, John E., Liesner, Murray, and O'Neill. 224,709.
 Ono, Taisuke, and S. Ito, to Matsushita Electric Works, Ltd. Design for electric razor. 225,186, 11-21-72, Cl. D95-3.
 Ono, Yoshio: *See*—
 Wada, Eiichi, and Ono. 224,683.
 Onozaki, Noboru, M. Huruikawa, and T. Yotsukura, to Hitachi, Ltd. Rear projection slide viewer. 224,056, 6-27-72, Cl. D61-1.
 Oppenheimer, Robert, to American Cyanamid Co. Skin test induction report card. 224,457, 7-25-72, Cl. D83-1.
 Optical Radiation Corp.: *See*—
 Wood, Richard D. 224,437.

Optische Werke G. Rodenstock: *See*—
 Obster, Martin, and Dietrich. 223,295.
 Orfel, John, to American Science and Engineering, Inc. Hand magnifier. 224,446, 7-25-72, Cl. D57-1.
 Oriental Trading Co., Ltd.: *See*—
 Senda, Yasuo, and Negami. 223,298.
 Oro-Lange Enterprises, Inc.: *See*—
 Kinstley, Paul S. 223,757.
 Ortega, Charles J., and F. L. Naff, Jr., to Computer Transmission Corp. Housing for communications terminal. 223,360, 4-11-72, Cl. D26-5.
 Ortho Pharmaceutical Corp.: *See*—
 David, Clarence J. 223,398.
 Osawa, Eiichi, to Kabushiki Kaisha Daimi Seikosha. Wristwatch. 225,124, 11-14-72, Cl. D42-8.
 Osborn, Joy M. Baby crib accessory rack. 222,805, 1-4-72, Cl. D33-3.
 Osborn, Merritt A., to Esco Mfg. Inc. Lift gate latch bolt. 222,987, 2-22-72, Cl. D8-131.
 Oshima, Takeshi, to Nippon Rubber Co., Ltd. Shoe. 223,329, 4-11-72, Cl. D2-310.
 Oster, John, Mfg. Co.: *See*—
 Madl, Alfred W. 223,171.
 Ostrander, Robert K., to The Quaker Oats Co. Toy airplane. 225,248, 11-28-72, Cl. D34-15.
 Ostrander, Robert K., to The Quaker Oats Co. Jack-in-the-box toy. 225,249, 11-28-72, Cl. D34-15.
 Otis Elevator Co.: *See*—
 Broun, Morrison J. 223,340.
 Ott, James H., to Hovar Electronics Corp. Lamp. 223,505, 4-25-72, Cl. D48-20.
 Otterpohl, James B. Car wash building. 223,564, 5-9-72, Cl. D13-1.
 Otto, Walter J., to Julius L. Englesberg. Combination motor, pump, and filter. 223,040, 2-29-72, Cl. D65-1.
 Outdoor Sports Industries, Inc.: *See*—
 Burris, Donald J., and Maulbetsch. 225,569.
 Burris, Donald J., and Maulbetsch. 225,570.
 Owens, Buck, to Chicago Musical Instrument Co. Guitar or similar article. 225,275, 11-28-72, Cl. D56-1.
 Owens-Illinois, Inc.: *See*—
 Amberg, Ralph G. 224,515.
 Amberg, Ralph G. 224,516.
 Amberg, Ralph G. 224,517.
 Amberg, Ralph G. 224,829.
 Bennett, Edward J., and Johnson. 223,210.
 Kretz, Edward J. 224,200.
 Lawton, Edward H. 224,381.
 Liddle, David E., and Lambroff. 224,947.
 Mansur, Fred E., Lohmann, Wojcik, and Martel. 224,111.
 Martel, Richard A. 225,235.
 Plummer, James E. 223,083.
 Richmond, Colin B., II. 225,270.
 Richmond, Colin B., II. 225,271.
 Schmears, Larry J., and Wojcik. 224,231.
 Strand, Gordon A. 223,019.
 Strand, Gordon A. 225,510.
 Weckman, Richard L. 223,084.
 Owings, Joseph W., to American Standard Inc. Handle for a plumbing fitting. 223,155, 3-21-72, Cl. D23-29.
 P. H. Plastics Inc.: *See*—
 Dallaire, Dominique, and R. M. 225,218.
 Dallaire, Dominique, and R. M. 225,219.
 Dallaire, Dominique, and R. M. 225,319.
 Dallaire, Dominique, and R. M. 225,396.
 PORTESCAP: *See*—
 Lehmann, Andre, and Fumey. 223,857.
 P.X. Industries, Inc.: *See*—
 Palsen, Richard C. J. 222,873.
 Pace, Hugh N. Decorative novelty or the like. 223,257, 4-4-72, Cl. D29-23.
 Pachter, Victor. Smoking pipe cleaner. 225,130, 11-14-72, Cl. D85-7.
 Pacific Game Co., Inc.: *See*—
 Kavie, Jerry P. 223,540.
 Pacific Handy Cutter, Inc.: *See*—
 Olt, John D. 223,133.
 Packaging Associates, Inc.: *See*—
 Polk, Edwin R., Polansky, and Miranda. 223,479.
 Packaging Techniques, Inc.: *See*—
 Robins, Ruth. 225,152.
 Packard Instrument Co.: *See*—
 Thompson, Frederic W. 224,069.
 Paddock, Wilbur C.: *See*—
 Taiman, John T., and Paddock. 224,840.
 Padilla, Victor J. Helmet. 224,281, 7-18-72, Cl. D2-232.
 Padleckas, Henry, and L. Paulius. Combination lock. 223,228, 4-4-72, Cl. D8-114.
 Page, Leonard, to Dynamic Learning Media, Inc. Finding for a brooch or the like. 223,280, 4-4-72, Cl. D45-19.
 Palazzolo, Thomas P. Game board. 223,939, 6-20-72, Cl. D34-5.
 Palen, Loren B., Jr.: *See*—
 Stormer, Henry E., and Palen. 223,447.
 Palsen, Richard C. J., to P.X. Industries, Inc. Cabinet knob. 222,873, 1-25-72, Cl. D8-145.
 Palsen, Richard C. J., assignor to Blozonics Corp and F. A. Ravreby, fractional part interest to each. Aquarium siphon. 223,110, 8-14-72, Cl. D30-12.
 Palumbo, Caludio, to Phono-Sonic Radio Corp. Combined beverage cart and housing for an audio unit. 225,149, 11-21-72, Cl. D6-46.

Palumbo, William J., to Mel-Mar Industries, Inc. Camper trailer. 223,751, 6-6-72, Cl. D14-3.
 Pan-Wal Mechanical Services Ltd.: See—
 Pankiw, Fred. 225,623.
 Pankiw, Fred., to Pan-Wal Mechanical Services Ltd. Shopping cart. 225,623, 12-26-72, Cl. D14-3.
 Pantasote Co.: See—
 Ambrose, Paul E. 223,330.
 Panzica, Anton J.: See—
 Fritz, Albert J., and Panzica. 223,980.
 Papavasiliou, Elaine J., to Symbologies, Inc. Medallion. 225,652, 12-26-72, Cl. D29-19.
 Papst, Georg F. Cassette tape recorder. 225,236, 11-28-72, Cl. D26-14.
 Pareja, Ramon: See—
 Sadler, Harry J., and Pareja. 223,686.
 Parfums Guy Laroche: See—
 De Mandiargues, Alain P. 225,212.
 Parker Pen Co., The: See—
 Green, Homer T. 223,130.
 Parpaola, Danilo, and G. Callegaro. Lacing hook. 224,584, 8-8-72, Cl. D2-18.
 Parry, Frank, and D. M. Savio, to Branson Instruments, Inc. Ultrasonic seaming apparatus. 225,110, 11-14-72, Cl. D26-1.
 Parsons, John R. Illuminating toy. 223,941, 6-20-72, Cl. D34-15.
 Patrick, Earnest H. Air conditioner for vehicles. 223,761, 6-6-72, Cl. D23-142.
 Patton, George T., Jr., to Textron Inc. Headset earpiece. 223,927, 6-20-72, Cl. D26-14.
 Patton, J. Lloyd: See—
 Waddle, Thirl W., Wood, and Jackson. 224,242.
 Paulius, Leonard: See—
 Padleckas, Henry, and Paulius. 223,228.
 Paulson, Maurice G., T. Kelleher, M. L. Price, and M. L. Levin, to Lambda Electronics Corp. Power supply. 223,932, 6-20-72, Cl. D26-15.
 Pavenick, Stanford. Illuminable rotatable double-faced mirror. 225,475, 12-2-72, Cl. D86-10.
 Pavenick, Stanford. Illuminable rotatable double-faced mirror. 225,476, 12-2-72, Cl. D86-10.
 Pawsat, Carlton P.: See—
 Humlong, Robert F., and Pawsat. 223,075.
 Pawsat, Carlton P., to Wald Mfg. Co., Inc. Reflective bicycle pedal. 223,554, 5-2-72, Cl. D90-14.
 Pawsat, Carlton P., to Wald Mfg. Co., Inc. Bicycle steering post. 224,466, 7-25-72, Cl. D90-9.
 Pawsat, Carlton P., to Wald Mfg. Co., Inc. Bicycle steering post. 224,474, 7-25-72, Cl. D90-9.
 Pawsat, Carlton P., to Wald Mfg. Co., Inc. Bicycle steering post. 224,475, 7-25-72, Cl. D90-9.
 Pawsat, Carlton P., to Wald Mfg. Co., Inc. Bicycle steering post. 224,476, 7-25-72, Cl. D90-9.
 Pawsat, Carlton P., to Wald Mfg. Co., Inc. Bicycle steering post. 224,477, 7-25-72, Cl. D90-9.
 Pawsat, Carlton P., to Wald Mfg. Co., Inc. Bicycle steering post. 224,478, 7-25-72, Cl. D90-9.
 Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Reflective bicycle handlebar. 223,072, 3-7-72, Cl. D90-11.
 Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Reflective bicycle pedal. 223,073, 3-7-72, Cl. D90-14.
 Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Reflective bicycle pedal. 223,074, 3-7-72, Cl. D90-14.
 Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Handlebar. 224,696, 8-29-72, Cl. D90-11.
 Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Bicycle handlebar. 224,697, 8-29-72, Cl. D90-11.
 Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Bicycle handlebar. 224,698, 8-29-72, Cl. D90-11.
 Pawsat, Carlton P., and R. F. Humlong, to Wald Mfg. Co., Inc. Bicycle handlebar. 224,699, 8-29-72, Cl. D90-11.
 Pearl, David L., J. G. Waller, and B. P. Head, Jr., to W. R. Grace & Co. Egg carton. 224,518, 8-1-72, Cl. D9-190.
 Pearl, Morton S. Book support or the like. 223,370, 4-11-72, Cl. D33-2.
 Peasley, Curtiss M. Wireless lighting fixture. 225,370, 12-5-72, Cl. D48-24.
 Pedlar People Ltd., The: See—
 Van Ryn, Joop M. 224,506.
 Peeta, Robert S., to The Singer Co. Combined carrying case, accessory tray and lid for a sewing machine or similar article. 225,091, 11-7-72, Cl. D87-1.
 Pelensky, Walter J. Stringed musical instrument. 222,954, 2-8-72, Cl. D56-1.
 Pelensky, Walter J. Stringed musical instrument specifically a Ukrainian bandurka. 223,214, 3-28-72, Cl. D56-1.
 Pelensky, Walter J. Stringed musical instrument. 224,564, 8-1-72, Cl. D56-1.
 Pelensky, Walter J. Stringed musical instrument. 224,565, 8-1-72, Cl. D56-1.
 Pelensky, Walter J. Stringed musical instrument. 224,566, 8-1-72, Cl. D56-1.
 Pelensky, Walter J. Stringed musical instrument. 224,567, 8-1-72, Cl. D56-1.
 Pelosi, Michael M., Jr. Ceiling panel. 224,896, 10-3-72, Cl. D48-16.
 Penetred Corp.: See—
 Felker, Paul J. 223,184.
 Pennev, J. C., Inc.: See—
 Lauer, Donald G., Woodring, and Rinaldi. 224,308.
 Penney, Richard H., and R. W. Fyfield, to Sperry Rand Corp. Electronic calculator. 223,832, 6-13-72, Cl. D26-5.
 Pennwalt Corp.: See—
 Gardella, John M., Clavattoni, and Hoyt. 224,536.
 Gardella, John M., Clavattoni, and Hoyt. 224,617.
 Gardella, John M., Clavattoni, and Hoyt. 224,618.
 Gardella, John M., Clavattoni, and Hoyt. 224,619.
 Gardella, John M., Clavattoni, and Hoyt. 224,620.
 Perfumeria Parera, S.A.: See—
 Lluch, Alberto P. 223,437.
 Lluch, Alberto P. 223,438.
 Perkins, George, to American Telecommunications Corp. Desk telephone. 224,911, 10-10-72, Cl. D26-14.
 Perlman, Richard J., to JMR Enterprises, Inc. Sitz bath. 223,831, 6-13-72, Cl. D23-51.
 Perno, Howard V. Lounge chair. 225,289, 12-5-72, Cl. D6-37.
 Perry, Frank R., to Oneida Ltd. Spoon or similar article. 222,924, 2-1-72, Cl. D54-12.
 Perry, Frank R., to Oneida Ltd. Spoon or similar article. 224,266, 7-11-72, Cl. D54-12.
 Perry, Frank R., to Oneida Ltd. Spoon or similar article. 225,030, 10-31-72, Cl. D54-12.
 Perry, Frank R., to Oneida Ltd. Spoon. 225,456, 12-12-72, Cl. D54-12.
 Perry Plastics, Inc.: See—
 Straus, Albert E. 223,735.
 Perry, Roger L., to The Gillette Co. Single blade unit for a safety razor. 224,470, 7-25-72, Cl. D95-3.
 Perry, Roger L., to The Gillette Co. Safety razor blade assembly. 225,137, 11-14-72, Cl. D95-3.
 Persinger, Laverne O., assignor of a fractional part interest to M. L. Persinger. Anchor for boats. 233,551, 5-2-72, Cl. D71-1.
 Persinger, Laverne O., assignor of a fractional part interest to M. L. Persinger. Pivoted housing for an anchor. 223,595, 5-9-72, Cl. D71-1.
 Persinger, Merle L.: See—
 Persinger, Laverne O. 223,551.
 Persinger, Laverne O. 223,595.
 Persson, Karl, to Bila Cup AB. Cup. 225,076, 11-7-72, Cl. D44-9.
 Pet Inc.: See—
 Dittman, David T. 223,189.
 Maisak, Melvin O., and Fullington. 224,059.
 Petal Corp., The: See—
 Newman, Elizabeth. 223,691.
 Peters, Howard, to U.S. Industries, Inc. Sewing machine cabinet. 224,197, 7-11-72, Cl. D6-181.
 Peterson, Carl A.: See—
 Gammons, David L., and Peterson. 225,377.
 Peterson, Edward W., to Silverline, Inc. Boat upper shell. 225,281, 11-28-72, Cl. D71-1.
 Peterson, James T., to Mohasco Industries, Inc. Pillow display stand. 223,064, 3-7-72, Cl. D80-9.
 Peterson, Vernon A., to Tonka Corp. Toy vehicle cab. 225,251, 11-28-72, Cl. D34-15.
 Petrillo, Richard J., to The Gillette Co. Combined packaging and dispensing tray for razor blade cartridges. 224,997, 10-31-72, Cl. D9-187.
 Petrucci, Jillo J. Signal light. 223,967, 6-20-72, Cl. D72-1.
 Pettavel, Jacques, to Societe Genevoise d'Instruments de Physique. High precision measuring machine. 223,174, 3-21-72, Cl. D55-1.
 Pettengill, Floyd E., to Anchor Hocking Corp. Bottle or similar article. 224,777, 9-19-72, Cl. D9-119.
 Pettibon, Burt R. Precision cervical vertebrae adjusting instrument. 223,419, 4-11-72, Cl. D83-1.
 Pevnet, Georges L. J. Copying machine. 224,664, 8-22-72, Cl. D81-1.
 Pfeilsticker, Lee J.: See—
 Zbikowski, Theodore H., and Pfeilsticker. 223,944.
 Pfueger, Albert, Jr., and E. R. Lewis, Jr. Molded boat with a transparent portion in the bottom thereof. 223,519, 4-25-72, Cl. D71-1.
 Pfueger, Albert, Jr., and E. R. Lewis, Jr. Molded plastic boat. 223,520, 4-25-72, Cl. D71-1.
 Pharris, John A., and A. A. Mlachnik, to EZ Paints Corp. Paint brush handle. 223,017, 2-29-72, Cl. D4-38.
 Pharris, John A., and A. A. Mlachnik, to EZ Paints Corp. Paint brush handle. 223,018, 2-29-72, Cl. D4-38.
 Phillips, Cecil E., and F. M. Bennett, to Saf-Pla Corp. Tape and bandage cutter. 223,786, 6-6-72, Cl. D83-12.
 Phillips Petroleum Co.: See—
 Kinney, Alfred W. 222,905.
 Phononics, Inc.: See—
 Clement, Carl J. 224,112.
 Phono-Sonic Radio Corp.: See—
 Palumbo, Caludio. 225,149.
 Pickel, Conrad L. Building block. 223,248, 4-4-72, Cl. D15-2.
 Pickel, Conrad L. Building block. 223,571, 5-9-72, Cl. D18-2.
 Picker Corp.: See—
 Johnson, William K., and Hartman. 223,220.
 Pickering, Thomas: See—
 Akers, Robert M. 223,783.
 Pickett, John E. P. Apparatus for the preparation and embedding of tissue specimens. 223,350, 4-11-72, Cl. D16-2.
 Piezza, Henry J., to Welding and Steel Fabrication Co., Inc. Inspection pressure vessel. 223,961, 6-20-72, Cl. D55-1.
 Pierce, Larry L. Route holder or similar article. 225,042, 10-31-72, Cl. D96-9.
 Pierson, Raymond G., Jr., and C. L. Voytko, to Hestrom Co. Infant's dressing table. 225,601, 12-26-72, Cl. D6-177.
 Pigg, Jimmy C.: See—
 Tate, John R., and Pigg. 225,528.

Pike, Maurice M. Nut cracker. 222,980, 2-15-72, Cl. D44-1.
 Piker, Herbert M., and O. C. Borum. Boat. 223,219, 3-28-72, Cl. D71-1.
 Pilkington's Tiles Ltd.: See—
 Hopkins, Patrick B. 224,008.
 Pilgrim, William, to Welch Allyn, Inc. Handle for medical diagnostic instruments. 225,584, 12-19-72, Cl. D83-12.
 Pillnik, Burton F.: See—
 Kinkel, Christian F., and Pillnik. 224,209.
 Pioneer Electronic Corp.: See—
 Wada, Elichi, and Ono. 224,683.
 Pioneer Plastics, Inc.: See—
 Blease, Wilfred J. 223,384.
 Pistorius, Albert C. and R. T., to Pistorius Machine Co., Inc. Machine tool gauge. 224,717, 9-5-72, Cl. D52-6.
 Pistorius Machine Co., Inc.: See—
 Pistorius, Albert C. and R. T. 224,717.
 Pistorius, Robert T.: See—
 Pistorius, Albert C. and R. T. 224,717.
 Pitney-Bowes, Inc.: See—
 Garfinkle, Marvin E., Schmeck, and Tangard. 223,009.
 Hoffman, Lionel B. 224,665.
 Schmeck, Robert E., and Tangard. 224,666.
 Pittis, Harry. Fisherman's tool. 223,574, 5-9-72, Cl. D22-31.
 Plasti-Kote Co.: See—
 Madelra, John W. 223,562.
 Plato Products, Inc.: See—
 Mehl, Ross M. 223,482.
 Playskool, Inc.: See—
 Sharer, Wesley E. 222,882.
 Sharer, Wesley E. 223,034.
 Plice, Gerald W., to Shure Brothers Inc. Microphone shock mount. 223,579, 5-9-72, Cl. D26-14.
 Plummer, James E., to Owens-Illinois, Inc. Bottle. 223,083, 3-7-72, Cl. D9-113.
 Pohl, Harold J., and N. J. Diederich, to Kellwood Co. Tent. 224,761, 9-12-72, Cl. D88-3.
 Pohndorf, Henry L.: See—
 Bird, Forrest M., and Pohndorf. 225,692.
 Polndexter, Charles T.: See—
 Fine, Archie R., and Polndexter. 222,797.
 Polsson, Leandre A. Chair or similar article. 225,196, 11-28-72, Cl. D6-69.
 Polsson, Norman D., to The Gillette Co. Razor handle. 224,481, 7-25-72, Cl. D95-3.
 Polansky, Sidney: See—
 Polk, Edgwin R., Polansky, and Mirando. 223,479.
 Polaroid Corp.: See—
 Bullock, Edward K., Burke, Conner, Dietz, Morse, and Tilley. 223,730.
 Conner, James M. 224,849.
 Conner, James M. 224,982.
 Conner, James M. 225,280.
 Conner, James M., Davison, Dietz, and Johnson. 224,272.
 Polenghi, Clarence. Combined bottle, wrapping and product identification label. 223,805, 6-18-72, Cl. D8-10.
 Polk, Edgwin R., S. Polansky, and L. Mirando, to Packaging Associates, Inc. Header for a body-fluid drainage bag. 223,479, 4-18-72, Cl. D83-1.
 Poloron Products, Inc.: See—
 Brown, Joseph D. 225,511.
 Pommert, Robert C., to Flexalite Corp. Cooling fan. 225,530, 12-19-72, Cl. D23-165.
 Pomper, William R. Razor or similar article. 223,741, 5-30-72, Cl. D95-3.
 Poon, Yuen S. Link chain for a bracelet or similar article. 224,602, 8-8-72, Cl. D45-4.
 Poon, Yuen S., to Yuen Sang Hardware Co., Ltd. Link chain for a bracelet or similar article. 224,981, 10-24-72, Cl. D45-4.
 Poon, Yuen S., to Yuen Sang Hardware Co., Ltd. Link chain for a bracelet or similar article. 225,256, 11-28-72, Cl. D45-4.
 Pope, William K.: See—
 Beaudoin, Dale J., and Pope. 223,645.
 Busch, Robert F., and Pope. 223,599.
 Busch, Robert F., and Pope. 224,379.
 Pope, William K., to Uniroyal, Inc. Pneumatic tire. 223,646, 5-16-72, Cl. D90-20.
 Pope, William K., to Uniroyal, Inc. Pneumatic tire. 224,181, 7-4-72, Cl. D90-20.
 Popp, Lester G. Combined frame and basket for joining two bicycles. 224,817, 9-19-72, Cl. D90-8.
 Porta Systems Corp.: See—
 DeLuca, Paul V. 223,364.
 DeLuca, Paul V. 224,024.
 Porter, William L.: See—
 Chandler, Maurice P., and Porter. 224,006.
 Porter, William P. Pipeline vent. 223,358, 4-11-72, Cl. D23-41.
 Posca, Jorge E. Machine for centrifugally casting dental materials. 222,503, 1-4-72, Cl. D24-1.
 Posner, David W., to Childhood Promotions, Inc. Toy model airplane. 224,660, 8-22-72, Cl. D34-15.
 Potadam, Jay A., to Gemini Marine, Inc. Boat deck. 225,576, 12-19-72, Cl. D71-1.
 Poudre Plastics, Inc.: See—
 Wright, Jesse F., and Berdine. 223,221.
 Powell, Freda L. Bootjack. 223,182, 3-21-72, Cl. D86-10.
 Prashker, Robert M., to Jamy, Inc. Infant's car seat. 223,244, 4-4-72, Cl. D15-1.
 Pratt, Don: See—
 Everhart, Donald R., Pratt, and Chaisson. 225,661.
 Pratt, Kenneth W.: See—
 Strayer, Lawrence H., and Pratt. 225,542.
 Prehn, Fenton W. Shellfish meat pattle mold. 224,334, 7-18-72, Cl. D44-1.
 Prehn, Fenton W. Die release for a shellfish meat pattle mold. 224,335, 7-18-72, Cl. D44-1.
 Pressman, Lynn. Threading block toy. 225,658, 12-26-72, Cl. D34-15.
 Presto Plastics Corp.: See—
 Shatan, David M. 224,336.
 Price, Alfred M., to The Quaker Oats Co. Waffle cooking plate. 223,006, 2-22-72, Cl. D44-1.
 Price, Alfred M., to The Quaker Oats Co. Waffle cooking plate. 223,007, 2-22-72, Cl. D44-1.
 Price, Gerald L. Holder for food bowl for pets. 225,388, 12-5-72, Cl. D87-1.
 Price, H. C. Co.: See—
 Eisele, Charles W. 223,665.
 Eisele, Charles W. 223,666.
 Eisele, Charles W. 223,383.
 Price, John F., and L. L. Johnson, to Everwear Park & Play-ground Equipment, Inc. Playground climber or the like. 224,796, 9-19-72, Cl. D34-5.
 Price, Marvin L.: See—
 Paulson, Maurice G., Kelleher, Price, and Levin. 223,932.
 Price, Russell I. Snowmobile accessory carrier. 224,280, 7-11-72, Cl. D87-1.
 Primoff, Eugene H. Game board or similar article. 223,938, 6-20-72, Cl. D34-905.
 Priore, Daniel. Clamp for corner concrete forms. 225,506, 12-19-72, Cl. D8-72.
 Procter & Gamble Co., The: See—
 Johnson, Roland E. 226,601.
 Vanderhyde, Harold J. 224,733.
 Proctor, Denver L.: See—
 Proctor, Rudy R. and D. L. 222,829.
 Proctor, Rudy R. and D. L. 225,120.
 Proctor, Douglas B. I. Sail boat hull. 224,167, 7-4-72, Cl. D71-1.
 Proctor, Richard I. Bicycle exerciser. 225,070, 11-7-72, Cl. D34-5.
 Proctor, Richard I. Exerciser or similar article. 225,071, 11-7-72, Cl. D34-5.
 Proctor, Rudy R. and D. L., to Jet-X Corp. Pouring spout for a container. 222,829, 1-11-72, Cl. D9-290.
 Proctor, Rudy R. and D. L., to Jet-X Corp. Walking horse toy. 225,120, 11-14-72, Cl. D34-16.
 Proctor-Silex Inc.: See—
 Hanson, Thomas E., and Jolliffe. 223,066.
 Professional Sports Marketing, Inc.: See—
 Hastings, Raymond I. 224,198.
 Projain, Richard, and R. Gold, to Lamda Electronics Corp. Power supply regulator. 224,971, 10-24-72, Cl. D26-15.
 Projecteurs Cible: See—
 Cible, Pierre. 223,634.
 Promar International, Inc.: See—
 Richards, Paul E. 223,580.
 Promotions International, Inc.: See—
 Anthony, Benjamin G. 225,435.
 Propst, Robert L., and J. O. Kelley, to Herman Miller Inc. Cart. 224,096, 7-4-72, Cl. D14-3.
 Propst, Robert L., and J. O. Kelley, to Herman Miller Inc. Drawer for a cabinet or similar article. 224,730, 9-12-72, Cl. D6-181.
 Propst, Robert L., and J. O. Kelley, to Herman Miller Inc. Tray. 224,751, 9-12-72, Cl. D44-10.
 Proteau, Leandre. Vehicle signal lamp or the like. 222,891, 1-25-72, Cl. D48-32.
 Pruitt, Forrest W. Golf practice mat. 225,242, 11-28-72, Cl. D34-5.
 Pruitt, James L. Hinge for cabinets or the like. 225,306, 12-5-72, Cl. D8-189.
 Pulos, Arthur J., to Welch Allyn, Inc. Otoscope. 222,925, 2-1-72, Cl. D57-1.
 Pulos, Arthur J., to Welch Allyn, Inc. Handle for medical diagnostic instruments. 225,691, 12-26-72, Cl. D83-12.
 Purcell, James B., to Komark Inc. Combined bottle and support clip therefor. 223,102, 3-14-72, Cl. D9-10.
 Purdy, Frederick E., to AMF Inc. Cycle seat. 225,484, 12-12-72, Cl. D90-16.
 Purdy, Frederick E., to AMF Inc. Tricycle rear step deck. 225,548, 12-19-72, Cl. D34-15.
 Pure Stat Corp.: See—
 Hassinger, Donald F. 222,860.
 Purer, Philip, to Victory-Puretec, Inc. Lamp. 224,140, 7-4-72, Cl. D48-20.
 Purex Corp., Ltd.: See—
 Brett, James E. 224,311.
 Putterman, Joseph C. Pole connector for shelving, racks, and the like. 224,996, 10-31-72, Cl. D8-236.
 Quaker Oats Co., The: See—
 Cammelot, Peter A., and Duvall. 223,891.
 Doe, Walter P. 225,165.
 Duvall, Leroy F., and Stone. 223,326.
 Duvall, Leroy F., and Stone. 224,077.
 Ostrander, Robert K. 225,248.
 Ostrander, Robert K. 225,249.
 Price, Alfred M. 223,006.
 Price, Alfred M. 223,007.
 Spengler, Duane E., Bartoo, and Smith. 225,166.

Quanrud, Larry D.: *See*—
 Andres, William A., Becker, and Quanrud. 223,126.
 Andres, William A., Becker, and Quanrud. 223,127.
 Quenot, Andre, to Manufacture Quenot Mabo. Tape measure. 223,288, 4-4-72, Cl. D52—1.
 Quenot, Andre, to Manufacture Quenot Mabo. Tape measure. 223,173, 11-21-72, Cl. D52—1.
 Quenot, Andre, to Manufacture Quenot Mabo. Plumb line. 225,174, 11-21-72, Cl. D52—1.
 Quinn, Peter T., to Honeywell Inc. Micro fiche reader. 223,780, 6-6-72, Cl. D61—1.
 Quinn, Peter T., to Honeywell Inc. Camera flash attachment. 224,055, 6-27-72, Cl. D61—1.
 Quistgaard, Jens H., to Dansk Designs Ltd. Drinking glass or the like. 225,253, 11-28-72, Cl. D36—8.
 RDW Industries, Inc.: *See*—
 Stedley, Roy B. 224,092.
 Raab, David, and S. Goldstein. Ring. 223,545, 5-2-72, Cl. D45—10.
 Racca, Richard F., A. E. Di Maio, and W. Swier. Dispensing unit for solidifiable liquid finishing materials or similar article. 223,510, 4-25-72, Cl. D52—2.
 Rachman, Isadore B., to Metal Dynamics Corp. Illuminated wand. 225,378, 12-5-72, Cl. D72—1.
 Raczak, Earl F., to Bio/Data Corp. Automatic pipette. 224,102, 7-4-72, Cl. D16—2.
 Rae, Ronald L., to Fort Howard Paper Co. Paper toweling. 224,917, 10-10-72, Cl. D59—2.
 Rae, Ronald L. Paper toweling. 224,918, 10-10-72, Cl. D59—2.
 Raimondi, Cesare A. Slide rule calculator. 224,259, 7-11-72, Cl. D52—6.
 Raines, Kenneth: *See*—
 Burke, George K., and Raines. 225,467.
 Burke, George K., and Raines. 225,468.
 Raines, Kenneth, to Burrin Medical Products, Inc. Infusion set. 223,043, 2-29-72, Cl. D83—12.
 Ralston, Richard H.: *See*—
 Kavanagh, Thomas S., Ralston, Campbell, Awelida, and Thuermer. 223,922.
 Rama Industrial Heater Co.: *See*—
 Hoyt, Edwin D. 225,228.
 Rams, Dieter, to Braun A.G. Table cigarette lighter. 223,172, 3-21-72, Cl. D48—27.
 Rams, Dieter, to Braun A.G. Hair dryer. 223,422, 4-11-72, Cl. D86—10.
 Rams, Dieter, to Braun Aktiengesellschaft. Bathroom scale. 224,443, 7-25-72, D52—10.
 Rams, Dieter, to Braun Aktiengesellschaft. Table lighter. 224,557, 8-1-72, Cl. D48—27.
 Rams, Dieter, to Braun A.G. Lighters. 225,448, 12-12-72, Cl. D48—27.
 Rams, Dieter, to Braun A.G. Lighters. 223,590, 5-9-72, Cl. D48—27.
 Rams, Dieter, to Braun A.G. Table cigarette lighter. 223,283, 4-4-72, Cl. D48—27.
 Rams, Dieter, to Braun A.G. Table lighter. 223,391, 4-11-72, Cl. D48—27.
 Rams, Dieter, to Braun A.G. Table lighter. 223,392, 4-11-72, Cl. D48—27.
 Rams, Dieter, to Braun A.G. Table cigarette lighter. 223,393, 4-11-72, Cl. D48—27.
 Rams, Dieter, to Braun Aktiengesellschaft. Table lighter. 225,264, 11-28-72, Cl. D48—27.
 Ranco Inc.: *See*—
 Hill, Frederick M. 225,453.
 Rangel, George G., and R. T. Harper, Jr. Modular structure. 225,102, 11-14-72, Cl. D13—1.
 Rankin, Donovan G., and A. J. Smith. Candle or the like. 225,381, 12-5-72, Cl. D73—1.
 Ransburg Electro-Coating Corp.: *See*—
 Adams, John K. 225,333.
 Smart, William L., and Woempner. 223,491.
 Raphael, Peter I. Ridable bouncing toy. 223,675, 5-23-72, Cl. D34—15.
 Rapid Tool and Mfg. Co., Inc.: *See*—
 Bonanno, Joseph L. 223,001.
 Rath, Virgil K. Hoop rolling device. 223,844, 6-13-72, Cl. D34—5.
 Ray, Donald G., to All-American Mfg., Inc. Broom head. 222,793, 1-4-72, Cl. D4—4.
 Ray, Jon P., A. O. Roche, and J. R. Frassanito, to Computer Terminal Corp. Computer terminal. 224,415, 7-25-72, Cl. D26—5.
 Raynor, Terence R., and P. S. Smith, to AMP Inc. Screw unit. 224,507, 8-1-72, D8—267.
 Raynor, Terence R., and P. S. Smith, to AMP Inc. Screw. 224,881, 10-3-72, Cl. D8—267.
 Raynor, Terence R., and P. S. Smith, to AMP Inc. Screw. 225,209, 11-28-72, Cl. D8—267.
 Reaves, Rapsom. Bookcase. 224,196, 7-11-72, Cl. D6—148.
 Reay, Charles P. Game box. 223,713, 5-30-72, Cl. D34—5.
 Rebel Boat Co., Inc.: *See*—
 Wilson, William H. 224,362.
 Record Chemical Co., Inc.: *See*—
 Kuchar, Joseph. 223,337.
 Kuchar, Joseph. 224,208.
 Red Devil Inc.: *See*—
 Melsner, Edward H. 223,401.
 Reddin, Bob G., and F. D. Bostic. Fishing rod handle. 225,632, 12-26-72, Cl. D22—23.
 Redfield, Co.: *See*—
 Burris, Donald J. 222,815.

Reed, Gerald D.: *See*—
 Vaughan, Woodrow E., and Reed. 223,743.
 Reed, Phyllis J. Doll. 225,418, 12-12-72, Cl. D34—4.
 Rees, William H., and N. Solomon, to National Steel Corp. Tread plate. 223,565, 5-9-72, Cl. D13—1.
 Reese, James D. Head for a tiki torch. 224,805, 9-19-72, Cl. D48—24.
 Reese, James D. Head for a tiki torch. 225,083, 11-7-72, Cl. D48—24.
 Reese, James D. Head for a gas tiki torch. 225,674, 12-26-72, Cl. D48—24.
 Reagan, Richard D., to Corning Glass Works. Brolter reflector or the like. 224,920, 10-10-72, Cl. D81—10.
 Regan, John F., to Eaton Corp. Security card. 224,569, 8-1-72, Cl. D59—2.
 Regie Nationale des Usines Renault: *See*—
 Tixier, Michel. 223,190.
 Regie Nationale des Usines Renault, and Automobiles Peugeot: *See*—
 Tixier, Michel. 224,283.
 Rehrig, Houston. Bread tray. 224,366, 7-18-72, Cl. D87—1.
 Reid, Donald J., to Kelsey-Hayes Co. Wheel. 223,534, 5-2-72, Cl. D14—30.
 Reid, Philip L., to W. R. Grace & Co. Positioner for poultry products and the like. 225,156, 11-21-72, Cl. D11—1.
 Reid, Philip L., to W. R. Grace & Co. Positioner for poultry products and the like. 225,157, 11-21-72, Cl. D11—1.
 Reifers, Richard F., to Diamond International Corp. Packaging display. 224,735, 9-12-72, Cl. D9—243.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 223,653, 5-23-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 223,654, 5-23-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 223,655, 5-23-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 223,656, 5-23-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 223,657, 5-23-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 223,658, 5-23-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 223,659, 5-23-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 223,998, 6-27-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 224,678, 8-29-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 224,734, 9-12-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 224,965, 10-24-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 225,213, 11-28-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 225,214, 11-28-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 225,514, 12-19-72, Cl. D9—219.
 Reifers, Richard F., and K. D. Bixler, to Diamond International Corp. Molded packaging tray for meat or the like. 225,515, 12-19-72, Cl. D9—219.
 Reilly, Robert G. T. Combined gearshift lever and housing for automobiles. 224,004, 6-27-72, Cl. D14—6.
 Reinecke, Jean O., to International Biophysics Corp. Medical analytic housing. 225,580, 12-19-72, Cl. D83—1.
 Reineman, Richard G.: *See*—
 Schaefer, George E., and Reineman. 225,340.
 Reineman, Richard G., and G. E. Schaefer, to The Brunswick Corp. Hood for bowling ball subway return. 225,244, 11-28-72, Cl. D34—5.
 Reineman, Richard G., and G. E. Schaefer, to The Brunswick Corp. Bench or the like. 224,387, 7-25-72, Cl. D6—58.
 Reineman, Richard G., and G. E. Schaefer, to The Brunswick Corp. Bowling ball return rack with provision for bowler identification panel. 224,420, 7-25-72, Cl. D34—5.
 Reineman, Richard G., and G. E. Schaefer, to The Brunswick Corp. In-line bowling ball return rack. 224,421, 7-25-72, Cl. D34—5.
 Reiner, Norbert L., D. Huffman, and J. Diemond, to Coleco Industries, Inc. Filtering unit for a swimming pool. 223,449, 4-18-72, Cl. D23—4.
 Republic Molding Corp.: *See*—
 Manning, James P. 223,538.
 Manning, James P. 224,765.
 Research Marketing, Inc.: *See*—
 Ritter, Jack V. 224,219.
 Rescho, Eugene G.: *See*—
 Martin, John C., and Rescho. 223,036.

Retention Communications Systems, Inc.: *See*—
 Catalano, Paul D., and Hoehe. 223,098.
 Catalano, Paul D., and Hoehe. 224,447.
 Revillon, Rene-Louis, to Totaldator S.A. Date calculator. 223,306, 4-4-72, Cl. D74—5.
 Revlon, Inc.: *See*—
 Dean, Jan, and Schwarz. 223,884.
 Revreby, Fred A.: *See*—
 Faison, Richard C. J. 223,110.
 Rex Chainbelt Inc.: *See*—
 Roeder, Charles L., and Klemme. 223,516.
 Rexall Drug and Chemical Co.: *See*—
 Swett, James B. 224,554.
 Reyda, Theodore M.: *See*—
 Ketcham, Charles B., and Reyda. 224,623.
 Reynolds, Alan S., to Wonkle International Inc. Toy figure. 222,914, 2-1-72, Cl. D34—4.
 Reynolds, Robert S.: *See*—
 Brooks, Philip L., Reynolds, Penwarden, and Gajwani. 225,594.
 Rhodes, Harold B., to Columbia Broadcasting System, Inc. Electric piano. 224,051, 6-27-72, Cl. D56—2.
 Rhodes, John G. L., to Telephone Mfg. Co., Ltd. Telephone instrument base. 224,234, 7-11-72, Cl. D26—14.
 Rice, John D. Chair. 225,496, 12-19-72, Cl. D6—71.
 Richards, Paul E., to Promar International, Inc. Omni-directional loudspeaker enclosure. 223,580, 5-9-72, Cl. D26—14.
 Richardson, Benjamin F., to Aeropro Enterprises, Inc. Helicopter kite. 225,422, 12-12-72, Cl. D34—15.
 Richardson, Daniel E., to Shure Mfg. Corp. Combined service counter and cabinet unit. 224,490, 8-1-72, Cl. D6—159.
 Richardson, Daniel E., to Shure Mfg. Corp. Combined counter and cabinet unit. 224,769, 9-19-72, Cl. D6—159.
 Richardson-Merrell Inc.: *See*—
 Mulligan, Robert J. 225,098.
 Richardson Smith Inc.: *See*—
 Simpkins, Terry J. 225,541.
 Richmond, Albert R., to The Richmond Mfg. Co. Boring auger for horizontal earth boring machines. 225,075, 11-7-72, Cl. D39—1.
 Richmond, Colin B., II, to Oneida Ltd. Spoon or similar article. 225,029, 10-31-72, Cl. D54—12.
 Richmond, Colin B., II, to Oneida Ltd. Spoon or similar article. 225,270, 11-28-72, Cl. D54—12.
 Richmond, Colin B., II, to Oneida Ltd. Spoon or similar article. 225,271, 11-28-72, Cl. D54—12.
 Richmond, Jimmy J. Trash can caster support. 225,153, 11-21-72, Cl. D8—226.
 Richmond Mfg. Co., The: *See*—
 Richmond, Albert R. 225,075.
 Richter, Roy E. Wheel. 224,101, 7-4-72, Cl. D14—30.
 Rickard, Robert E. Article holder. 224,902, 10-10-72, Cl. D8—71.
 Riel, Donald A. Toaster. 224,897, 10-3-72, Cl. D81—10.
 Rienhardt, David E.: *See*—
 Galang, Gerald J., Rienhardt, and Weaver. 224,740.
 Ries, Max, to Continental Specialties Co., Inc. Jug. 224,392, 7-25-72, Cl. D9—50.
 Riley, Tarence G., to Stanley Works (Great Britain) Ltd. Utility knife handle. 222,959, 2-15-72, Cl. D8—107.
 Rimar Mfg., Inc.: *See*—
 Shaefer, Donald E. 223,901.
 Rinaldi, Joseph A.: *See*—
 Lauer, Donald G., Woodring, and Rinaldi. 224,308.
 Rintoul, G. Robert: *See*—
 Graham, Stanley T., and Rintoul. 223,091.
 Rio Enterprises Inc.: *See*—
 Kohl, Frederick G., and Marceca. 224,633.
 Kohl, Frederick G., and Marceca. 224,634.
 Kohl, Frederick G., and Marceca. 225,045.
 Rios, Gilbert, to Superior Optical Co. Eyeglasses display holder. 223,784, 6-6-72, Cl. D80—9.
 Risk, George, Industries, Inc.: *See*—
 Mueller, Edward G. 224,114.
 Ritchie, David A., to Sherwood Medical Industries Inc. Coagulyzer reaction cuvette. 225,161, 11-21-72, Cl. D16—1.
 Rite Autoronics Corp.: *See*—
 Schwartz, Edwin L. 223,404.
 Rital, Michael C. Nursing nipple for use with a nursing bottle. 223,972, 6-20-72, Cl. D83—8.
 Ritter, George J. Combined valet stand and seat. 225,143, 11-21-72, Cl. D6—33.
 Ritter, Jack V., to Research Marketing, Inc. Liner for a pickup truck. 224,219, 7-11-72, Cl. D14—6.
 Rizzuto, Leopoldo P., and M. Schragar, to Continental Hair Products, Inc. Handle for a styling comb. 225,284, 11-28-72, Cl. D86—8.
 Robertson, Theodore L. Poker game board. 223,845, 6-13-72, Cl. D34—85.
 Robert, Tony. Holder for food bowl. 225,338, 12-5-72, D30—18.
 Roberts, Charles W.: *See*—
 Sayers, Russell N., and Roberts. 225,136.
 Roberts, Douglas A.: *See*—
 Flick, Francis S., Roberts, and Burke. 225,342.
 Flick, Francis S., Roberts, and Burke. 225,343.
 Roberts, Edwin F., to Ives Laboratories Inc. Easy break tablet. 224,591, 8-8-72, Cl. D16—1.
 Roberts, John F.: *See*—
 Roberts, John F. 224,823.
 Roberts, John F., to John F. Roberts. Decorative display rack. 224,823, 9-26-72, Cl. D6—20.

Robertson, Franklin D. Wall shelf unit or similar article. 224,487, 8-1-72, Cl. D6—134.
 Robertson, Franklin D. Shelf bracket support unit. 224,499, 8-1-72, Cl. D6—194.
 Robertson, John C., to The Stanley Works. Knife blade dispensing package. 224,290, 7-18-72, Cl. D9—191.
 Robins, Ruth, to Packaging Techniques, Inc. Lock for windows and doors. 225,152, 11-21-72, Cl. D8—150.
 Robinson, Charles C. Plug spanner. 223,988, 6-27-72, Cl. D8—27.
 Roche, Austin O.: *See*—
 Ray, Jon P., Roche, and Frassanito. 224,415.
 Rock, Bernard M. Fingernail clipper or the like. 225,477, 12-12-72, Cl. D86—10.
 Rock, John W., to Cannon Mills Co. Towel or similar article. 224,504, 8-1-72, Cl. D6—265.
 Rock, John W., to Cannon Mills Co. Sheet or similar article of bed linen. 224,851, 9-26-72, Cl. D92—26.
 Rucker, Elmer: *See*—
 Itoh, Shoichi, and Rucker. 223,536.
 Rodemeyer, Donald J., to Ideal Toy Corp. Elastic-band-supporting frame for use in a game. 224,830, 7-18-72, Cl. D34—5.
 Rodi & Wieneberger Aktiengesellschaft: *See*—
 Ochs, Pirmin. 223,273.
 Ochs, Pirmin. 223,274.
 Rodriguez, Edith. Drapes. 223,950, 6-20-72, Cl. D47—6.
 Roe, Richard C., and W. J. Davis, to Sealy, Inc. Bed spring unit or similar article. 224,284, 7-18-72, Cl. D5—2.
 Roebuck, Malcolm J., to First National Bank in Peru. Machine for assembling buttons. 225,031, 10-31-72, Cl. D55—1.
 Roeder, Charles L., and W. W. Klemme, to Rex Chainbelt Inc. Car body. 223,516, 4-25-72, Cl. D66—1.
 Rogers, Robin, to Laurence M. Walker. Religious medallion. 225,115, 11-14-72, Cl. D29—19.
 Rogers, Roy L. Landscaping device. 224,893, 10-3-72, Cl. D35—1.
 Rogers, Walter J. Fishing lure. 223,572, 5-9-72, Cl. D22—28.
 Rohde, Eugene L., to Fort Howard Paper Co. Paper toweling. 224,919, 10-10-72, Cl. D59—2.
 Roisman, Harper. Wrap dispenser. 225,267, 11-28-72, Cl. D52—2.
 Rolatope Corp.: *See*—
 Evans, Wallace D., Jr. 224,045.
 Evans, Wallace D., Jr. 224,046.
 Romanoff, Bruce. Flag. 223,457, 4-18-72, Cl. D29—17.
 Romas, Sakratis: *See*—
 Zougas, Petros. 225,099.
 Roney, Johnny, Jr. Combination vehicle leveling and chocking unit. 223,771, 6-6-72, Cl. D41—1.
 Ronson Corp.: *See*—
 Soane, Keith. 223,120.
 Toiseux Pierre. 225,675.
 Toiseux, Pierre M. J. 225,669.
 Ronzani, Peter A.: *See*—
 Bisch, Clifford B., Lucey, Noel, and Ronzani. 223,197.
 Root, John J. Antenna. 223,836, 6-13-72, Cl. D26—14.
 Ropella, Leonard A.: *See*—
 Ashby, Frederick R., and Ropella. 223,909.
 Roper Corp.: *See*—
 Condon, Richard W., Krabbe, Johannes, and Combs. 222,902.
 Rose, Arthur R. Printed circuit holding jig. 224,049, 6-27-72, Cl. D54—13.
 Rosebrock, Frederick A.: *See*—
 Genaro, Donald M., McGarvey, and Rosebrock. 225,113.
 Rosen, Nathan: *See*—
 Benrube, Jack S. 223,077.
 Rosenberg, Norman: *See*—
 Kamins, Seymour, and Rosenberg. 223,229.
 Kamins, Seymour, and Rosenberg. 223,230.
 Kamins, Seymour, and Rosenberg. 224,826.
 Rosenblum, Julia R. Combined cosmetic and tote bag. 224,072, 6-27-72, Cl. D87—3.
 Rosenblum, Milton. Combined tape dispensing cabinet and drawers therefor. 224,438, 7-25-72, Cl. D52—2.
 Rosentund, Gordon T., to Minnesota Mining and Mfg. Co. Cooking vessel. 225,433, 12-12-72, Cl. D44—15.
 Rosenow, Fred C., to Data Collection Systems, Inc. Tape printer or similar article. 224,353, 7-18-72, Cl. D64—10.
 Rosfeld, Jack H., to Texize Chemicals, Inc. Bottle. 224,286, 7-18-72, Cl. D9—116.
 Roskamp, Arend M., G. R., and R. C. Tissue dispenser holder. 225,611, 12-26-72, Cl. D8—233.
 Roskamp, Gresham R.: *See*—
 Roskamp, Arend M., G. R., and R. C. 225,611.
 Roskamp, Robert C.: *See*—
 Roskamp, Arend M., G. R., and R. C. 225,611.
 Rossi, Joseph V., to Comfort Lines, Inc. Folding step ladder. 225,493, 12-19-72, Cl. D6—35.
 Rotec, Inc.: *See*—
 Lindley, Donald C., Kinzie, and Runyan. 225,397.
 Roth, Eric M. Clothing care implement. 223,069, 3-7-72, Cl. D86—13.
 Rotheiser, Jordan I., to Selfix, Inc. Spray head. 225,223, 11-28-72, Cl. D23—35.
 Rotkow, Johanna R. Educational board for teaching children with disabilities. 223,026, 2-29-72, D25—1.
 Rotway, Inc.: *See*—
 Schramm, Buford J. 224,984.
 Roughsedge, Ralf F. M. Foldable trap rake. 223,696, 5-30-72, Cl. D8—13.

- Rowe International Inc.: *See*—
Boldt, Melvin H. 225,085.
Rowenta-Werke GmbH.: *See*—
Strzelczyk, Gotz F. 225,449.
Rowland, David L. Chair or similar article. 224,764, 9-19-72, Cl. D6—63.
Rowland, David L. Chair or similar article. 224,766, 9-19-72, Cl. D6—69.
Rowland, Gladys F. Corsage. 222,835, 1-11-72, Cl. D29—1.
Roy, Norman A., to NAR Enterprises, Inc. Buckle. 223,080, 3-7-72, Cl. D2—446.
Royal, Joe B. Diving fish lure. 225,324, 12-5-72, Cl. D22—28.
Royster, Ronald B., Sr. Rotatable surveillance capsule for buildings. 223,086, 3-7-72, Cl. D13—1.
Rubbermaid Commercial Products Inc.: *See*—
Brescia, Anthony J. 225,566.
Rubbermaid Inc.: *See*—
Mallonn, Paul C. 223,278.
Molzen, Charles F. 223,268.
Molzen, Charles F., and Lippisch. 223,267.
Taylor, William D. 223,279.
Rubery, Owen & Co. Ltd.: *See*—
Rudd, Anthony C. 224,169.
Ruble, Fredrick R., to Goodyear Aerospace Corp. Energy reactor. 223,003, 2-22-72, Cl. D26—14.
Rudd, Anthony C., to Rubery, Owen & Co. Ltd. Internal combustion engine. 224,169, 7-4-72, Cl. D77—1.
Rudduck, Earl. Hand counter. 224,058, 6-27-72, Cl. D64—11.
Rudin, Melvin, to Datel Corp. Magnetic tape unit. 224,017, 6-27-72, Cl. D26—5.
Runyan, Gary L.: *See*—
Lindley, Donald C., Kinzie, and Runyan. 225,397.
Ruokonen, Eekki, to Aarikka-Koru. Child's wheeled toy. 223,769, 6-6-72, Cl. D34—15.
Russell, Lionel E. Bathub. 225,225, 11-28-72, Cl. D23—53.
Russell, Richard H.: *See*—
Johnson, Henry D., and Russell. 223,994.
Russo, Andelfo J., to Cadillac Wire Corp. Display stand. 225,191, 11-28-72, Cl. D6—28.
Russo, Michael T. Link chain support post. 225,114, 11-14-72, Cl. D28—1.
Ruth, Douglas M. Bench. 225,194, 11-28-72, Cl. D6—60.
Rychlik, Frank J., to Illinois Tool Works, Inc. Disposable cannula. 224,727, 9-5-72, Cl. D83—12.
Rynes, William H. Rocker support for an infant seat. 222,907, 2-1-72, Cl. D15—6.
S.A. Accurist.: *See*—
Musy, Raymond. 224,948.
SBI Inc.: *See*—
Baldwin, Gary L. 224,215.
SCM Corp.: *See*—
Abend, Chester J., Bienkowski, and Ludwick. 224,495.
Abend, Chester J., and Frakes. 222,806.
Abend, Chester J., and Frakes. 224,570.
Bienkowski, James J., and Houlihan. 225,036.
SCOA Industries, Inc.: *See*—
Jones, Kenneth E. 223,078.
SI Lite Inc.: *See*—
Wiley, Robert L. 224,928.
Sachs, Charles M., to International Playtex Corp. Brassiere. 223,327, 4-11-72, Cl. D2—24.
Sackler, Mortimer D., and M. R. Craig, to Synergistics. Packaging container or similar article. 225,211, 11-28-72, Cl. D9—163.
Sadler, Harry J., and R. Pareja, to Hypro, Inc. Centrifugal pump. 223,686, 5-23-72, Cl. D65—1.
Saenz, Henry H., to H. J. Heinz Co. Bottle. 224,509, 8-1-72, Cl. D9—48.
Saf-Pia Corp.: *See*—
Phillips, Cecil E., and Bennett. 223,786.
Sager, Kurt, to Ciba-Geigy AG. Canister. 223,544, 5-2-72, Cl. D44—6.
Sahn, Roland R., to Elitix Industries. Architectural panel. 224,149, 7-4-72, Cl. D54—2.
Sahn, Roland R., to Elitix Industries. Architectural panel. 224,150, 7-4-72, Cl. D54—2.
Saito, Hiroshi, S. Horikoshi, I. Nakajima, and S. Yamamoto, to Maatsushita Electric Industrial Co., Ltd. Slide processor camera. 223,216, 3-28-72, Cl. D61—1.
Sakai, Jiro, J. Kawaguchi, and M. Noda. Carburetor. 223,871, 6-13-72, Cl. D77—1.
Sakai, Jiro, J. Kawaguchi, and M. Noda. Poisonous gas eliminating device of an engine for an automobile. 224,456, 7-25-72, Cl. D77—1.
Sakow, Toshihiko, to Litton Business Systems, Inc. Copy machine. 223,038, 2-29-72, Cl. D61—1.
Sala, Ennio.: *See*—
Agrati, Eugenio, and Sala. 223,408.
Salchow, Bernard C., to Grayco Inc. Hydraulic motor. 225,127, 11-14-72, Cl. D55—1.
Sales, M. D., Co., Inc.: *See*—
Halpern, Arthur. 224,331.
Sales, M. I. Inc.: *See*—
Halpern, Arthur. 225,016.
Sallsbury, James. Dollv for supporting helicopter and the like. 223,707, 5-30-72, Cl. D14—3.
Salm, Arthur, Inc.: *See*—
Laughlin, Clayton A. 223,211.
Laughlin, Clayton A. 225,177.
Salmans, James A. Building front. 223,234, 4-4-72, Cl. D13—1.
Salsgiver, James C.: *See*—
Walter, Russell A., and Salsgiver. 224,148.

- Sandeff, Hubert D.: *See*—
Fitzgerald, Timothy P., Nix, and Sandeff. 224,807.
Sanders Associates, Inc.: *See*—
Williams, Allen R., Jr. 224,321.
Sanderson, Paul H., Jr.: *See*—
Dowdell, Joshua R., Jr., and Sanderson. 223,577.
Sandoz-Wander, Inc.: *See*—
King, William R. 225,582.
Sandwick, William, to American Greetings Corp. Font of type. 223,413, 4-11-72, Cl. D64—17.
Sanford Research Co.: *See*—
Obert, Gerald N. 224,455.
Sanger, David M., and T. H. Toepfen, to General Signal Corp. Fire detection alarm cover. 225,380, 12-5-72, Cl. 72—1.
Sanyo Electric Co., Ltd.: *See*—
Tomimaga, Naoki. 224,742.
Sanyo Electric Co., Ltd., and Tokyo Sanyo Electric Co. Ltd.: *See*—
Ishikawa, Tadao, and Tokuda. 224,575.
Sartell, Donald L. Twirling baton. 224,123, 7-4-72, Cl. D34—5.
Saternus, Joseph P., to Borg-Warner Corp. Intravenous rod holder. 223,970, 6-20-72, Cl. D83—1.
Sato, Norio, and M. Nagano. Speed change gear for bicycles. 222,820, 1-4-72, Cl. D90—17.
Sato, Norio, and T. Ishida. Speed change gear for bicycle. 223,555, 5-2-72, Cl. D90—17.
Sato, Stephens N., to Ivac Corp. Fluid delivery apparatus. 222,956, 2-8-72, Cl. D83—1.
Sato, Stephens N., to Ivac Corp. Fluid delivery apparatus. 222,957, 2-8-72, Cl. D83—1.
Sato, Stephens N., to Ivac Corp. Temperature probe. 223,050, 3-7-72, Cl. D52—7.
Sato, Stephens N., to Ivac Corp. Battery charger. 223,999, 3-7-72, Cl. D26—15.
Sato, Stephens N., to Ivac Corp. Oxygen monitor. 224,813, 9-19-72, Cl. D83—1.
Sato, Stephens N., to Ivac Corp. Oxygen monitor. 224,814, 9-19-72, Cl. D83—1.
Sato, Stephens N., to Ivac Corp. Oxygen sensor. 224,987, 10-24-72, Cl. D83—1.
Satho, Yasuta. Game board. 225,540, 12-19-72, Cl. D34—5.
Satho, Yasuta. Toy truck crane. 225,659, 12-26-72, Cl. D34—15.
Satho, Yasuta. Toy shovel loader. 225,660, 12-26-72, Cl. D34—15.
Satterfield, Rigsby C., to Eaton Yale & Towne Inc. Industrial vehicle. 222,857, 1-18-72, Cl. D14—3.
Satterfield, Rigsby C., to Eaton Yale & Towne Inc. Towing vehicle. 223,191, 3-28-72, Cl. D14—3.
Saunders, William T., to National Steel Corp. End closure for a container. 224,962, 10-24-72, Cl. D9—255.
Saunders, William T., to National Steel Corp. End closure for a container. 224,963, 10-24-72, Cl. D9—255.
Saunders, William T., to National Steel Corp. Tab opener for a container. 224,964, 10-24-72, Cl. D9—256.
Sauritis, Irene. Clip-on pacifier, partly retractible. D225,039, 10-31-72, Cl. D83—8.
Savio, Dino M.: *See*—
Parry, Frank, and Savio. 225,110.
Sawasky, Herbert. Portable shoulder supported motion picture camera. 222,926, 2-1-72, Cl. D61—1.
Sayers, Russell N., and C. W. Roberts, to The Goodyear Tire & Rubber Co. Tire 225,136, 11-14-72, Cl. D90—20.
Sayre, Van Vechten, H. R. Kirkpatrick, and H. Zelenko, to International Flavors & Fragrances Inc. Toothpaste tube. 224,998, 10-31-72, Cl. D9—194.
Scamporr, Anthony. Dancing figure toy. 225,122, 11-14-72, Cl. D34—15.
Scanthin Electronics, Inc.: *See*—
Shimano, Moto, Zierhut, and Ishimaru. 223,362.
Shimano, Moto, Zierhut, and Ishimaru. 223,429.
Scaretti, Lorenzo. Buckle. 224,901, 10-10-72, Cl. D2—420.
Schaaf, Robert.: *See*—
Howard, Sol, and Schaaf. 223,173.
Schaefer, George E.: *See*—
Reineman, Richard G., and Schaefer. 224,387.
Reineman, Richard G., and Schaefer. 224,420.
Reineman, Richard G., and Schaefer. 224,421.
Schaefer, George E.: *See*—
Reineman, Richard G., and Schaefer. 225,244.
Schaefer, George E., to The Brunswick Corp. Cluster bowling ball return rack. 224,419, 7-25-72, Cl. D34—5.
Schaefer, George E., to The Brunswick Corp. Cluster bowling ball return adapted to receive a bowler identification panel. 225,341, 12-5-72, Cl. D34—5.
Schaefer, George E., and R. G. Reineman, to The Brunswick Corp. Hood for covered surface bowling ball return. 225,340, 12-5-72, Cl. D34—5.
Schaefer, Hermann R. Electric dry shaver. 225,386, 12-5-72, Cl. D95—3.
Schaefer, Howard A., to Anchor Hocking Corp. Fluted plano-convex lens. 224,040, 6-27-72, Cl. D48—32.
Schaefer, Howard A., to Anchor Hocking Corp. Fluted plano-convex lens. 225,371, 12-5-72, Cl. D48—32.
Schaefer, Howard A., to Anchor Hocking Corp. Fluted plano-convex lens. 225,450, 12-12-72, Cl. D48—32.
Schaefer, Harold W.: *See*—
Hohuln, Samuel E., and Schaefer. 223,509.
Schafer, Harold, to Gold Seal Co. Bottle. 225,155, 11-21-72, Cl. D9—143.

- Schaffer, Alberto B. Cone cap. 225,391, 12-12-72, Cl. D2—250.
Scharfenberger, James A., and J. R. Snyder, to Lansburg Electro-Coating Corp. Coating material sheath for a spray coating apparatus. 225,107, 11-14-72, Cl. D23—36.
Schaus, Carl F., to Honeywell Information Systems Inc. Panel for use on electronic equipment cabinets or the like. 224,314, 7-18-72, Cl. D26—5.
Schauweker, George H., to American Optical Corp. Flexible goggles. 223,983, 6-27-72, Cl. D2—234.
Schell, Thomas E. Skate board. 224,424, 7-25-72, Cl. D34—15.
Schenker, Eugenia. Lady's slipper or similar article. 224,185, 7-11-72, Cl. D2—283.
Scherer, Nancy A., to Cannon Mills Co. Towel or similar article. 223,321, 4-4-72, Cl. D92—26.
Scherer, Nancy A., to Cannon Mills Co. Towel or similar article. 223,322, 4-4-72, Cl. D92—26.
Scherer, Nancy A., to Cannon Mills Co. Sheet or similar article of bed linen. 223,324, 4-4-72, Cl. D92—26.
Scherer, Nancy A., to Cannon Mills Co. Sheet or similar article of bed linen. 224,600, 8-1-72, Cl. D6—264.
Scherer, Nancy A., to Cannon Mills Co. Towel or similar article. 224,503, 8-1-72, Cl. D6—265.
Scheuring, George R.: *See*—
Kira, Alexander, and Scheuring. 222,965.
Schleser, Warren J., and J. C. Marsh, to The Corrugated Container Co. Liquid container. 224,616, 8-15-72, Cl. D9—175.
Schleser, Warren J., and J. C. Marsh, to The Corrugated Container Co. Liquid container. 224,639, 8-22-72, Cl. D9—175.
Schliff, Arthur. Combined spot light and plug therefor. 223,389, 4-11-72, Cl. D48—20.
Schlidsknecht, Mary J. Door covering. 224,780, 9-19-72, Cl. D13—1.
Schlidsknecht, Mary J. Broom cover. 224,949, 10-24-72, Cl. D4—4.
Schlage Lock Co.: *See*—
Kendrick, Marron. 225,204.
Tornoe, John A., and Marotto. 225,047.
Schlau, Floyd E.: *See*—
Crain, Philip W., Schiau, and Tam. 224,250.
Schmeck, Robert E.: *See*—
Garfinkle, Marvin E., Schmeck, and Tangard. 223,009.
Schmeck, Robert E., and E. W. Tangard, to Pitney-Bowes, Inc. Postage meter. 224,666, 8-22-72, Cl. D64—11.
Schmersal, Larry J., and G. E. Wojcik, to Owens-Illinois, Inc. Combined light emitting gas discharge matrix display panel and connecting cables. 224,231, 7-11-72, Cl. D26—5.
Schmidt, Carl F., to Turtle Wax, Inc. Closure cap for a container. 225,620, 12-26-72, Cl. D9—261.
Schmidt, Arthur W., to Zenith Radio Corp. Paging receiver housing. 223,835, 6-13-72, Cl. D26—14.
Schmidt, Clarence E. Dialyzing unit. 224,172, 7-4-72, Cl. D83—1.
Schmitt, Charles H.: *See*—
Binzer, Thomas J., Schmitt, and Woodling. 223,641.
Schmitt, Robert T. Combined fireplace grate and log holder. 225,637, 12-26-72, Cl. D23—98.
Schmitz, Raymond J., and J. F. Sellers, Jr., to Motorola, Inc. Cabinet housing for side-loading tape player or similar article. 224,713, 9-5-72, Cl. D26—14.
Schmuck, Frederic E.: *See*—
Schoepe, Adolf, and Schmuck. 223,450.
Schneider, Helmut B. Bobble. 224,688, 8-29-72, Cl. D34—15.
Schneider, Irwin, to Imperial Arts Corp. Knife or similar article of flatware. 225,694, 12-26-72, Cl. D95—3.
Schnur, Martin, and M. Appel, to Magic Marker Corp. Pen casing. 223,688, 5-23-72, Cl. D74—17.
Schoenfeld, Alexander N., to Trans World Display Corp. Combined display and box dispensing unit. 223,291, 4-4-72, Cl. D52—2.
Schoepe, Adolf, and F. E. Schmuck. Horizontal inlet ball cock. 223,450, 4-18-72, Cl. D23—40.
Schokbeton Products Corp.: *See*—
McCaul, James F. 224,292.
Schrager, Milton.: *See*—
Rizzuto, Leandro P., and Schrager. 225,284.
Schramm, Buford J., to Rotoway, Inc. Cabin for a helicopter. 224,984, 10-24-72, Cl. D71—1.
Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Bicycle frame. 223,071, 3-7-72, Cl. D90—8.
Schroeder, Peter, to Gardisette International AG. Fabric for use in curtains. 225,384, 12-5-72, Cl. D92—1.
Schubert, Ralph E., and A. Bally, to CGR Medical Corp. Work desk or similar article for use in a hospital or the like. 222,977, 2-15-72, Cl. D33—907.
Schuler, Ralf, and U. Witte, to Paul M. Buenger. Building construction unit. 224,930, 10-17-72, Cl. D13—1.
Schuler, Ralf, and U. Witte, to Paul M. Buenger. Combined kitchen-bath and wall unit. 224,932, 10-17-72, Cl. D23—50.
Schuler, Ralf, and U. Witte, to Paul M. Buenger. Building construction unit. 229,929, 10-17-72, Cl. D13—1.
Schumann, Robert W., to W. R. Grace & Co. Combined mold and packing tray for a confection. 225,516, 12-19-72, Cl. D9—240.
Schwartz, Edwin L., to Rite Autoronics Corp. Vehicle instrument gauge. 223,404, 4-11-72, Cl. D62—6.
Schwartz, Howard L., to United Inns Mfg. Corp. Motel office building. 224,294, 7-18-72, Cl. D13—1.
Schwartz, Richard S., to Thomas & Betts Corp. Bundling strap. 222,878, 1-25-72, Cl. D9—252.
Schwartz, Werner W., to U.S. Industries, Inc. Pinking shears. 225,608, 12-26-72, Cl. D8—57.
Schwarz, Milton.: *See*—
Dean, Jan, and Schwarz. 223,884.
Schwinn Bicycle Co.: *See*—
Fritz, Albert J., and Panzica. 223,980.
Sciarino, Leonard, and J. Di Natale. Animal grooming table. 222,836, 1-11-72, Cl. D33—14.
Scientific Anglers Inc.: *See*—
Martuch, Leon L. 222,881.
Martuch, Leon L. 223,782.
Seire, William M. Hockey souvenir. 224,110, 7-4-72, Cl. D29—28.
Seogins, Allen W. Telephone mount. 225,413, 12-12-72, Cl. D26—14.
Scott, David E.: *See*—
Gribble, Joseph J., Arneberg, and Scott. 223,452.
Scott & Fetzer Co., The.: *See*—
Krock, Albert W. 225,387.
Seager, Richard H., to General Electric Co. Portable tape player. 224,323, 7-18-72, Cl. D26—14.
Seals, Bob J. Vehicle tire carrier actuating lever. 223,753, 6-6-72, Cl. D14—6.
Sealy, Inc.: *See*—
Roe, Richard C., and Davis. 224,284.
Seagull Valve Co.: *See*—
Carpenter, Herbert R. 222,853.
Searcy, Anne M., to Handy Anne, Inc. Support rack for tools and small articles. 222,913, 2-1-72, Cl. D33—3.
Sears, Kenneth D. Flexible bag for liquid storage. 224,961, 10-24-72, Cl. D9—182.
Sears, Roebuck and Co.: *See*—
Baughman, Karl T. 224,568.
Grange, Kenneth, Nishigami, and Harrison. 225,574.
Lehnard, John A. 224,677.
Martel, Ronald G. 224,944.
Nishigami, Telichi, and Harrison. 224,815.
Seating Co. of America, Inc.: *See*—
Tipton, Max E. 224,955.
Segel, Jack S.: *See*—
Evanoff, Thomas V., Segel, and Colson. 225,117.
Seidler, David. False eyelash holder. 223,787, 6-6-72, Cl. D87—1.
Seiffert, Florian, to Braun A.G. Combined coffee mill and grinder. 223,425, 4-11-72, Cl. D89—1.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,388, 4-11-72, Cl. D48—20.
Selden, Robert W. Light standard or similar article. 223,395, 4-11-72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,396, 4-11-72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,397, 4-11-72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,398, 4-11-72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,399, 4-11-72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,400, 4-11-72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,632, 5-16-72, Cl. D48—931.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 223,633, 5-16-72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 224,039, 6-27-72, Cl. D48—31.
Selden, Robert W., to Weyerhaeuser Co. Light standard or similar article. 224,558, 8-1-72, Cl. D48—31.
Selfix, Inc.: *See*—
Rothel, Jordan I. 225,223.
Sellers, James F.: *See*—
Schmitz, Raymond J., and Sellers. 224,713.
Sellers Mfg. Inc.: *See*—
Huff, Arlen L. 224,397.
Huff, Arlen L. 225,625.
Senda, Yasuo, and S. Negami, to The Oriental Trading Co., Ltd. Binoculars. 223,298, 4-4-72, Cl. D57—1.
Sensors, Inc.: *See*—
Szeles, Donald M. 225,405.
Septimus, Martin I.: *See*—
Lopez, Ulises M., Septimus, Holzwarth, and Wark. 224,070.
Seretny, Stanley E.: *See*—
Genaro, Donald M., Holmes, and Seretny. 224,416.
Settle, Joseph J. Soap receptacle. 224,028, 6-27-72, Cl. D33—24.
Sewell & Charity Ltd.: *See*—
Charity, Lawrence E. 224,856.
Sexton, Edward, to The Third Eye, Inc. Lamp. 224,141, 7-4-72, Cl. D48—20.
Shabbarrasi, Anthony J. Keyboard for an electric organ or similar article. 225,274, 11-28-72, Cl. D56—1.
Shaeffer, Donald E., to Rimar Mfg., Inc. Corner bead. 223,901, 6-20-72, Cl. D13—1.
Shahut, Leo G., to K-S-H, Inc. Lens panel. 223,886, 4-11-72, Cl. D48—16.
Shalvoy, John C., to General Electric Co. Illuminable make-up mirror or similar article. 223,883, 6-13-72, Cl. 86—10.
Shaper, Roger T., and J. E. Germann, to Metal Window-Products, Inc. Barbecue cooker. 223,642, 5-16-72, Cl. D81—10.
Sharer, Wesley E., to Playskool, Inc. Combined peg and magnetic chalk board. 222,882, 1-25-72, Cl. D25—1.
Sharer, Wesley E., to Playskool, Inc. Toy dump truck. 223,034, 2-29-72, Cl. D34—15.
Sharn, Clellmont L. Container for chlorine pellets or the like. 223,356, 4-11-72, Cl. D23—2.

Sharp Corp. : See—
Jimbo, Katumi. 225,534.
Sharp Kabushiki Kaisha : See—
Imai, Shogo. 223,860.
Sharp Kabushiki Kaisha (Sharp Corp.) : See—
Miyake, Takao. 225,578.
Suganoya, Yoshio, and Miyake. 225,579.
Shatan, David M., to Presto Plastics Corp. Saucer for a tea-bag or the like. 224,336, 7-18-72, Cl. D44-9.
Shaw, Frank D. Emergency lighting unit. 223,855, 6-13-72, Cl. D48-20.
Shaw, George, to Wire World, Inc. Storage rack for toilet tissue or the like. 224,613, 8-15-72, Cl. D6-97.
Shaw, George, to Wire World, Inc. Storage rack for toilet tissue or the like. 224,614, 8-15-72, Cl. D6-97.
Shepard, John R. Smoking pipe. 223,181, 3-21-72, Cl. D85-8.
Sherman Car Wash Equipment Co. : See—
Billos, Livio. 224,043.
Sherman, William S., to The Autopoint Co. Perpetual calendar. 223,304, 4-1-72, Cl. D74-5.
Sherwood Medical Industries Inc. : See—
Ritchie, David A. 225,161.
Sheward, Edward R. Reflector. 223,521, 4-25-72, Cl. D72-1.
Shield, Richard L., to Mattel, Inc. Accessory for spinning toy or the like. 223,541, 5-2-72, Cl. D84-15.
Shiffey, Ralph W., to Emerson Electric Co. Safety switch toggle. 225,651, 12-26-72, Cl. D26-13.
Shiman, Leonard, to Shiman Manufacturing Co., Inc. Finger ring. 225,018, 10-31-72, Cl. D45-10.
Shiman Manufacturing Co., Inc. : See—
Hutchinson, Bruce R., and Brooks. 225,636.
Shiman, Leonard. 225,018.
Shimano, Moto, C. D. Zierhut, and L. Y. Ishimaru, to Scantlin Electronics, Inc. Cathode ray tube display terminal. 223,362, 4-11-72, Cl. D26-5.
Shimano, Moto, C. D. Zierhut, and L. Y. Ishimaru, to Scantlin Electronics, Inc. Cathode ray tube display housing. 223,429, 4-11-72, Cl. D96-9.
Shimoi, Shusuke, to Kabushiki Kaisha Tokyo Suehiro Sharyo Selsakusho. Roller-bed trailer. 223,818, 6-13-72, Cl. D14-3.
Shimosawa, Ron, to Kiku Co. Combined dining and cooking table. 223,179, 3-21-72, Cl. D81-10.
Shindler, Anthony, to American Optical Corp. Pair of Spectacles. 223,123, 3-14-72, Cl. D87-1.
Shinjo, Katsumi. Clinch nut. 223,532, 5-2-72, Cl. D8-274.
Shinjo, Katsumi. Locking nut. 223,747, 6-6-72, Cl. D8-274.
Shirley, Carl S. Rear projection viewer. 223,012, 2-22-72, Cl. D61-1.
Shirley, Carl S., to General Educational Technology Corp. Rear projection viewer. 223,013, 2-22-72, Cl. D61-1.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,942, 2-8-72, Cl. D26-13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,943, 2-8-72, Cl. D26-13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,944, 2-8-72, Cl. D26-13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,968, 2-15-72, Cl. D26-13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,969, 2-15-72, Cl. D26-13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,970, 2-15-72, Cl. D26-13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,971, 2-15-72, Cl. D26-13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,972, 2-15-72, Cl. D26-13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,973, 2-15-72, Cl. D26-13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,974, 2-15-72, Cl. D26-13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,975, 2-15-72, Cl. D26-13.
Shlesinger, Bernard E., Jr. Reed switch envelope. 222,976, 2-15-72, Cl. D26-13.
Shlesinger, Bernard E., Jr. Electric cable. 224,786, 9-19-72, Cl. D26-1.
Shlesinger, Bernard E., Jr. Electric cable. 224,787, 9-19-72, Cl. D26-1.
Shlesinger, Bernard E., Jr. Electric cable. 224,788, 9-19-72, Cl. D26-1.
Shlesinger, Bernard E., Jr. Electric cable. 224,789, 9-19-72, Cl. D26-1.
Shlesinger, Bernard E., Jr. Electric cable. 224,790, 9-19-72, Cl. D26-1.
Shoel Kakoh Co., Ltd. : See—
Kamata, Eitaro. 224,182.
Shoney's South, Inc. : See—
Hancock, Glen C., and Young. 223,660.
Hancock, Glen C., and Young. 224,171.
Shortway, Harry A. : See—
Tejeda, Oscar G., and Shortway. 222,958.
Shure Brothers Inc. : See—
Plice, Gerald W. 223,579.
Shure Mfg. Corp. : See—
Richardson, Daniel E. 224,490.
Richardson, Daniel E. 224,769.
Sias, James H., to Eastman Kodak Co. Motion picture projector. 223,125, 8-14-72, Cl. D61-1.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,618, 5-16-72, Cl. D42-1.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,619, 5-16-72, Cl. D42-1.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,620, 5-16-72, Cl. D42-1.
Sicherman, Sondra, to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,621, 5-16-72, Cl. D42-91.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,622, 5-16-72, Cl. D42-1.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,624, 5-16-72, Cl. D42-1.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,625, 5-16-72, Cl. D42-1.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,626, 5-16-72, Cl. D42-1.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 223,649, 6-13-72, Cl. D42-1.
Sicherman, Sondra J. Combined dial and hands for a watch or the like. 223,850, 6-13-72, Cl. D42-1.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 224,432, 7-25-72, Cl. D42-1.
Sicherman, Sondra J., to Startime Watch Co., Inc. Combined dial and hands for a watch or the like. 224,433, 7-25-72, Cl. D42-1.
Siebel, John E. Pressure unloader valve or the like. 222,802, 1-4-72, Cl. D23-19.
Siegal, Burton L. : See—
Neumann, Marcel, and Siegal. 222,893.
Siegle, Henry L., Co., Inc. : See—
Brody, Charles E. 223,178.
Sign & Marketing Corp. : See—
Silvas, Norbert Leslie. 224,716.
Sikorski, Helen K. : See—
Sikorski, Thaddeus A. and H. K. 225,221.
Sikorski, Thaddeus A. and H. K. Automobile antenna identification device. 225,221, 11-28-72, Cl. D14-6.
Silent Glow Corp. : See—
Hutchinson, Bruce R., and Brooks. 225,636.
Silvas, Norbert L., to Sign & Marketing Corp. Swizzle stick. 224,716, 9-5-72, Cl. D94-3.
Silverline, Inc. : See—
Peterson, Edward W. 225,281.
Simarano, Vincent J. Merchandise display and storage unit. 222,503, 12-19-72, Cl. D6-190.
Simicon Co. : See—
Calro, Anthony C. 224,341.
Simmons, Terence E. Mug. 223,503, 4-25-72, Cl. D44-9.
Simonsen & Weels E. A/S : See—
Nyrop, Morten E. 223,202.
Simpkins, Terry J., to Richardson Smith Inc. Toy roundabout. 225,541, 12-19-72, Cl. D34-5.
Simpson, Alden H. Tent stake. 222,983, 2-15-72, Cl. D88-93.
Simpson, Charles H. Canister. 224,134, 7-4-72, Cl. D44-6.
Simpson Co. : See—
Tyrell, Gilb T. 224,083.
Simpson, Lewis E., to Dioptrix, Inc. Microfiche viewer. 224,166, 7-4-72, Cl. D81-1.
Simpson Timber Co. : See—
Bates, Dana B. 223,894.
Sims, Derinot F. : See—
Frederick, Phyllis, Sims, and Zimmerman. 224,546.
Sindelar, Raymond R., to Wigwam Mills, Inc. Cuffless sock. 225,490, 12-19-72, Cl. D2-320.
Singer Co., The : See—
Current, Wayne A. 223,966.
Current, Wayne A. 223,937.
Genaro, Donald M. 223,057.
Genaro, Donald M. 223,058.
Genaro, Donald M. 223,059.
Genaro, Donald M. 223,060.
Genaro, Donald M. 224,809.
Haas, Robert V. 222,639.
Peets, Robert V. 225,081.
Stoltz, Elbert J., and Nyquist. 224,721.
Zylbert, David K., and Larsson. 224,624.
Zylbert, Thaddeus J. 223,081.
Singer, Monroe J. Bottle or similar article. 225,154, 11-21-72, Cl. D9-48.
Siverts, Donald C. : See—
Kaufman, Fred, and Siverts. 223,152.
Sjoholm, Hans, to Telefonaktiebolaget LM Ericsson. Picture telephone. 223,672, 5-23-72, Cl. D26-14.
Skerl, Richard J., to The B. F. Goodrich Co. Tire. 224,579, 8-1-72, Cl. D90-20.
Skerl, Richard J., to The B. F. Goodrich Co. Tire. 224,580, 8-1-72, Cl. D90-20.
Skinner, James R., M. O. Uitz, and P. W. Hait, to F.J.L. Corp. Motion picture viewer. 225,181, 11-21-72, Cl. D61-1.
Skiroule Limitee : See—
MacKeen, Anthony D. 223,346.
MacKeen, Anthony D. 224,527.
Sklaroff, William B., to Litton Business Systems, Inc. Typewriter. 225,461, 12-12-72, Cl. D

Sama, Klaus-Dieter, to Litton Business Systems, Inc. Adding machine. 223,964, 6-20-72, Cl. D64-11.
 Smart, William L., and D. W. Woempher, to Ransburg Electro-Coating Corp. Spray gun. 223,491, 4-25-72, Cl. D23-17.
 Smedley, William H.: See—
 Miller, Anthony D., Gay, and Smedley. 223,167.
 Smith, Allen J.: See—
 Rankin, Donovan G., and Smith. 225,381.
 Smith, Bruce W. Replaceable edge for power mower blades. 222,808, 1-4-72, Cl. D40-1.
 Smith, Charles J. P. Dado remover. 223,892, 6-20-72, Cl. D8-5.
 Smith, Clarence R.: See—
 Wilkinson, Judkins E., and Smith. 223,042.
 Smith, David B. Universal tripod. 223,638, 5-16-72, Cl. D61-1.
 Smith, Donald E., and A. M. Linford. Storage rack for attachment to wall lockers or the like. 223,617, 5-16-72, Cl. D33-3.
 Smith, Donald K. Fishing lure. 224,104, 7-4-72, Cl. D22-28.
 Smith, Earl E., to Lexalite Corp. Electric outlet box cover plate. 222,885, 1-25-72, Cl. D26-13.
 Smith, Eva N. Hair spray shield. 223,737, 5-30-72, Cl. D86-10.
 Smith, Jay N., to Inpala Industries, Inc. Heater back pan. 224,891, 10-3-72, Cl. D23-127.
 Smith, Jay N., to Impala Industries, Inc. Catalytic heater. 225,639, 12-26-72, Cl. D23-110.
 Smith, John D.: See—
 Spengler, Duane E., Bartoo, and Smith. 225,166.
 Smith, Julia. Drainage tray for soap or the like. 223,375, 4-11-72, Cl. D33-24.
 Smith, Kenneth A. Dispensing tray for plastic bags and the like. 223,403, 4-11-72, Cl. D52-2.
 Smith, Kline, & French Laboratories: See—
 Baum, Ronald, and Calabrese. 225,526.
 Smith, Philip S.: See—
 Raynor, Terence R., and Smith. 224,507.
 Raynor, Terence R., and Smith. 224,881.
 Raynor, Terence R., and Smith. 225,209.
 Smith, Rachelle R. Toothpaste holder. 225,497, 12-19-72, Cl. D6-95.
 Smith, Ralph G. Guitar body or similar article. 224,155, 7-4-72, Cl. D56-1.
 Smith, Richard D. Gameboard. 223,846, 6-13-72, Cl. D34-5.
 Smith, Richard D., and R. S. Du Bois. Safety hanger for tension springs. 224,958, 10-24-72, Cl. D8-263.
 Smith, Robert L., to Northrop Corp. Portable beverage dispenser. 223,342, 4-11-72, Cl. D14-3.
 Smith, Russell G., to Xomox Corp. Duplex strainer unit. 223,828, 6-13-72, Cl. D23-4.
 Smith, Russell G., to Xomox Corp. Duplex strainer unit. 224,304, 7-18-72, Cl. D23-4.
 Smith, Sidney Z., to The General Tire & Rubber Co. Water pitcher. 225,171, 11-21-72, Cl. D44-21.
 Smith, Thomas R. Ceiling panel. 225,322, 12-5-72, Cl. D18-2.
 Smith, Thomas R. Ceiling panel. 225,323, 12-5-72, Cl. D18-2.
 Smithhart, Jack A., to Continental Steel Co. Carport. 225,051, 11-7-72, Cl. D13-1.
 Snowmobile, Ltd.: See—
 Marose, Glen E. 224,526.
 Snyder, John R.: See—
 Scharfenberger, James A., and Snyder. 225,107.
 Soane, Keith, to Ronson Corp. Cigarette lighter. 223,120, 3-14-72, Cl. D48-20.
 Societe Anonyme Automobiles Citroen: See—
 Cadiou, Jean. 224,097.
 Societe Genevoise d'Instruments de Physique: See—
 Pettavel, Jacques. 223,174.
 Societe Grosfillex, Societe a Responsabilite Limitee: See—
 Grosfillex, Raymond. 223,569.
 Grosfillex, Raymond. 224,192.
 Grosfillex, Raymond. 224,193.
 Societe les Piles Wonder: See—
 Angibaud, Rene M. 225,673.
 Sokolowski, Henry J. Adjustable leg rest. 224,994, 10-31-72, Cl. D6-32.
 Solomon, Norman: See—
 Rees, William H., and Solomon. 223,565.
 Sonex, Inc.: See—
 Weinberg, Harold M. 225,014.
 Songrand Corp., The: See—
 McNair, Samuel L. 225,471.
 Sonyo Kako Co., Ltd.: See—
 Matsumoto, Rikio. 224,087.
 Soper, Robert B. Scooter. 223,943, 6-20-72, Cl. D34-15.
 Soper, Robert L., and R. Abel. Condiment dispenser. 225,558, 12-19-72, Cl. D44-22.
 Sorci, Anthony V.: See—
 Baughan, Dorothy J. 225,415.
 Sottsass, Ettore, Jr. Combined teleprinter and punched edge card feeder. 223,300, 4-4-72, Cl. D64-11.
 Souder, Raymond G. Hanging planter. 222,949, 2-8-72, Cl. D35-3.
 Sours, William A., to Cogar Corp. Casing for an electronic data terminal. 224,597, 8-8-72, Cl. D26-5.
 Sours, William A., to Cogar Corp. Tape cartridge. 223,027, 2-29-72, Cl. D26-14.
 Southeastern Metals, Division of U.S. Industries, Inc.: See—
 Bowen, Thomas E. 223,823.
 Southern Extrusions, Inc.: See—
 Taylor, Charles P. 222,894.
 Spacer Furnishings Corp.: See—
 Loesch, Ivan L. 222,906.
 Spalding, Martin A.: See—
 Carlisle, Clifton E., and Spalding. 223,868.
 Sparkomatic Corp.: See—
 Anchel, Jonas H. 223,161.
 Speakman Co.: See—
 Landell, Harper. 224,834.
 Spectra, Paul B., to Library Resources Inc. Microfiche viewer. 223,474, 4-13-72, Cl. D61-1.
 Specht, Paul B., to Library Resources Inc. Portable microfiche viewer. 223,473, 4-13-72, Cl. D61-1.
 Spencer, Clifford A., to Eaton Yale & Towne Inc. Golf club grip. 223,459, 4-18-72, Cl. D34-5.
 Spencer, Clifford A., to Eaton Yale & Towne Inc. Golf club grip or similar article. 223,461, 4-18-72, Cl. D34-5.
 Spencer, Clifford A., to Eaton Yale & Towne Inc. Golf club grip. 223,462, 4-18-72, Cl. D34-5.
 Spencer, Vivian S. Cosmetic mirror. 224,176, 7-4-72, Cl. D86-10.
 Spengler, Duane E., G. O. Bartoo, and J. D. Smith, to The Quaker Oats Co. Toy garage. 225,166, 11-21-72, Cl. D34-15.
 Sperrazza, Augustine J., Jr. Portable speaker enclosure. 223,028, 2-29-72, Cl. D26-14.
 Sperry Rand Corp.: See—
 Daniels, John F., and Mockovak. 224,921.
 Kermes, Constantine J. 224,298.
 McKeon, Stephen F. 224,875.
 McKeon, Stephen F. 224,954.
 Penney, Richard H., and Fryfield. 223,832.
 Wolff, Martin J. 224,309.
 Spiegel, Norman, to Nasta Industries, Inc. Toy automotive vehicle. 224,744, 9-12-72, Cl. D34-15.
 Spiegel, Norman, to Nasta Industries, Inc. Helicopter toy. 225,654, 12-26-72, Cl. D34-15.
 Spiegel, Norman. Vehicular toy. 225,544, 12-19-72, Cl. D34-15.
 Spies, Donald H. Combination engine muffler. 225,184, 11-21-72, Cl. D77-1.
 Spiro, Lloyd W. Aircraft navigation light indicator. 223,631, 5-16-72, Cl. D48-32.
 Spivey, Jefferson. Assignor to Mark A. Brick and to said Spivey, a fractional part interest to each. Hunting knife. 224,389, 7-25-72, Cl. D22-1.
 Springfield Electrical Specialties, Inc.: See—
 Fromm, Jacob F. 223,082.
 Square D Co.: See—
 Gribble, Joseph J., Arneberg, and Scott. 223,452.
 Winfrey, James E., and Orr. 224,596.
 Squibb, E. R., & Sons, Inc.: See—
 Brodsky, Louis, and Zeltzer. 224,290.
 Stafford, Steward L. Insect electrocuting trap. 224,706, 9-5-72, Cl. D22-19.
 Stahel, Alwin J., II, to General Foods Corp. Toy block. 224,425, 7-25-72, Cl. D34-15.
 Stahl, Donald P., to Telecommunications Industries, Inc. Battery powered illuminating mirror. 223,568, 5-9-72, Cl. D14-6.
 Stahl, Donald P., to Telecommunications Industries, Inc. Illuminable mirror. 224,459, 7-25-72, Cl. D86-10.
 Stahl, Donald P., to Telecommunications Industries, Inc. Illuminable mirror. 225,585, 12-19-72, Cl. D86-10.
 Stahl, Donald P., to Telecommunications Industries, Inc. Illuminable cosmetic case. 225,586, 12-19-72, Cl. D86-10.
 Stahl, William J., to National Mfg. Co., Inc. Fishing rod holder. 223,259, 4-4-72, Cl. D33-17.
 Stahl, William J., to National Mfg. Co., Inc. Fishing rod holder. 223,260, 4-4-72, Cl. D33-17.
 Stahl, William J., to National Mfg. Co., Inc. Fishing rod holder. 223,261, 4-4-72, Cl. D33-17.
 Stahl, William J., to National Mfg. Co., Inc. Fishing rod holder. 223,262, 4-4-72, Cl. D33-17.
 Standard Oil Co.: See—
 Adler, James S., and Dolby. 223,678.
 Cyr, Steve, and Whelan. 224,090.
 Cyr, Steven J., and Whelan. 225,555.
 Cyr, Steven J., and Whelan. 225,556.
 Cyr, Steven J., Whelan, and Krause. 225,512.
 DiPierro, Michael J., M. A., and Mastrovito. 223,667.
 Standard Oil Co. (Indiana): See—
 Cyr, Steven J., and Whelan. 224,206.
 Cyr, Steve, and Whelan. 224,207.
 Stanek, Leonard M. Bird feeder. 223,047, 3-7-72, Cl. D30-14.
 St

- Stanwood Plastic Products Ltd.: See—
Ferris, Charles E. 224,461.
Stapleton, Walter A., Sr.: See—
Johnson, Carl N., and Stapleton. 223,851.
Starttime Watch Co., Inc.: See—
Sicherman, Sondra J. 223,618-22.
Sicherman, Sondra J. 223,624.
Sicherman, Sondra J. 223,625.
Sicherman, Sondra J. 223,626.
Sicherman, Sondra J. 223,849.
Sicherman, Sondra J. 224,432.
Sicherman, Sondra J. 224,433.
Steelcase Inc.: See—
Buhk, Randall P. 224,824.
Leaver, Gardner. 224,188.
Leaver, Gardner. 225,598.
Steffen, Vincent B. Milk carton holder. 224,137, 7-4-72, Cl. D44-21.
Stehl, George R., and D. November, to Wagner Electric Corp. Housing for a tachograph. 222,909, 2-1-72, Cl. D26-14.
Stehouwer, Adrian W. Charcoal fire starter. 223,722, 5-30-72, Cl. D48-27.
Stedley, Roy B., to RDW Industries, Inc. Dispensing closure. 224,082, 7-4-72, Cl. D9-258.
Stein, Jacob. Finger ring. 225,442, 12-12-72, Cl. D45-10.
Stein, Karl A. Brush. 223,738, 5-30-72, Cl. D86-13.
Stein, Leo. Camera support. 224,053, 6-27-72, Cl. D61-1.
Steinbach, Thomas M.: See—
Hughes, Richard J., and Steinbach. 223,706.
Steiner Co. Lausanne S.A.: See—
Cassia, Antonio M. 225,175.
Steiner, Hans: See—
Lang, Karl, and Steiner. 223,198.
Steiner, Robert E., to Emerson Electric Co. Exhaust fan cover. 225,010, 10-31-72, Cl. D23-151.
Steiner, Robert E., to Emerson Electric Co. Exhaust fan cover. 225,011, 10-31-72, Cl. D23-151.
Steinhart, Saul G. Arm chair. 223,756, 6-6-72, Cl. D15-1.
Steinkamp, Norman A., to Sunbeam Corp. Electric hair dryer bonnet. 223,067, 3-7-72, Cl. D86-10.
Stelber Industries Inc.: See—
Cristie, Martin. 223,526.
Steller, Philip. Bicycle frame. 223,528, 4-25-72, Cl. D90-8.
Steller, Philip, and M. Cristie. Bicycle frame. 223,527, 4-25-72, Cl. D90-8.
Stephans, J. Larry. Desk lamp. 223,952, 6-20-72, Cl. D48-20.
Stephenson, John C. Shaving caddy. 224,953, 10-24-72, Cl. D6-58.
Stergard Corp.: See—
Bruce, Roger K., Marhold, and Adickes. 225,619.
Sterling Drug Inc.: See—
Alperin, Marvin. 224,882.
Stern, Richard J.: See—
Grube, Clifford E., and Stern. 223,976.
Stern, Russell L., to Walter Kiddle & Co., Inc. Boom section for a telescopic crane boom. 224,128, 7-4-72, Cl. D41-1.
Stern, Russell L., to Walter Kiddle & Co., Inc. Telescopic crane boom. 224,129, 7-4-72, Cl. D41-1.
Stern, Russell L., to Walter Kiddle & Co., Inc. Cantilevered crane boom section. 224,978, 10-24-72, Cl. D41-1.
Stern, Russell L., to Walter Kiddle & Co., Inc. Section for a telescoping crane boom. 224,979, 10-24-72, Cl. D41-1.
Stern, Russell L., to Walter Kiddle & Co., Inc. Boom section for a cantilevered crane boom. 224,980, 10-24-72, Cl. D41-1.
Stevenson, Bill E. Combined toothbrush holder and dispenser for toothpaste and paper cups. 224,863, 10-3-72, Cl. D6-82.
Stevenson, Robert L.: See—
Burger, Francis J., III, Stevenson, and Lehman. 224,668.
Stewart, Arthur P.: See—
Johnson, Stanley R., and Stewart. 225,525.
Stewart, Earl K., to General Electric Company. Cabinet for an electronic control. 225,013, 10-31-72, Cl. D26-5.
Stilwell, Melvyn D., to Old World Arts, Inc. Door. 223,439, 4-18-72, Cl. D13-1.
Stilwell, Melvyn D., to Old World Arts, Inc. Door. 224,830, 9-26-72, Cl. D13-1.
Stokes, Rembert R.: See—
Dreyfuss, Henry, and Stokes. 223,833.
Genaro, Donald M., Kelly, McGarvey, and Stokes. 224,117.
Genaro, Donald M., and Stokes. 223,005.
Stoloff, Charles I. Bifocal spectacles elevator. 223,175, 3-21-72, Cl. D57-1.
Stoltz, Elmer J., and R. A. Nyquist, to The Singer Co. Electronic printing calculator. 224,721, 9-5-72, Cl. D64-11.
Stone, Charles D.: See—
Duvall, Leroy F., and Stone. 223,326.
Duvall, Leroy F., and Stone. 224,077.
Stone, Frank G.: See—
Heltzen, John H., and Stone. 222,984.
Heltzen, John H., and Stone. 223,070.
Storage Technology Corp.: See—
Kavanagh, Thomas S., Ralston, Campbell, Awelda, and Thurmer. 223,922.
Storm, William D. Fishing lure. 223,249, 4-4-72, Cl. D22-27.
Storm, William D. Fishing lure. 224,593, 8-8-72, Cl. D22-28.
Stormer, Henry E., and L. B. Palen, Jr. Fish lure. 223,447, 4-18-72, Cl. D22-27.
Storms, James G.: See—
Neal, Archie E., and Storms. 225,356.
Strand, Gordon A., to Owens-Illinois, Inc. Bottle. 223,019, 2-29-72, Cl. D9-125.

- Strand, Gordon A., to Owens-Illinois, Inc. Bottle. 225,510, 12-19-72, Cl. D9-92.
Strassle, Alex. Chair with fluted seat and back rest surfaces. 224,190, 7-11-72, Cl. D6-65.
Strassle, Alex. Chair or similar article. 224,191, 7-11-72, Cl. D6-66.
Strauss, Albert E., to Perry Plastics, Inc. Suture cutter. 223,735, 5-30-72, Cl. D83-12.
Straub, Dorothy A., and A. Morris. Boot. 224,183, 7-11-72, Cl. D2-273.
Straub, Dorothy A., and A. Morris. Boot. 224,184, 7-11-72, Cl. D2-273.
Stravitz, David M. Wine bottle rack. 224,435, 7-25-72, Cl. D44-29.
Stravitz, David M. Chair. 224,528, 8-1-72, Cl. D15-1.
Strayer, Lawrence H., and K. W. Pratt, to Funtime Products, Inc. Toy film bursting cane. 225,542, 12-19-72, Cl. D34-15.
Strickland, Robert E. Combined information gathering and display unit. 224,537, 8-1-72, Cl. D25-1.
Stringer, Edward: See—
Krause, Stephen R. 224,909.
Stringer, Freeman. Combined litter and article stowage bucket for automobiles or the like. 222,951, 2-8-72, Cl. D49-34.
Strombecker Corp.: See—
Muys, Louis G., and Keller. 222,837.
Strong, Richard A., and R. M. Clock face. 224,033, 6-27-72, Cl. D42-1.
Strong, Rosa M.: See—
Strong, Richard A., and R. M. 224,033.
Stroud, Grant W. Camper. 223,151, 3-21-72, Cl. D14-3.
Strzelczyk, Gotz E., to Rowenta-Werke GmbH. Table lighter. 225,449, 12-12-72, Cl. D48-27.
Stuart, Robert B. Boat hull. 225,086, 11-7-72, Cl. D71-1.
Studer, John E., Jr., to Electronic Associates, Inc. Computer. 224,018, 6-27-72, Cl. D26-5.
Stull, William S. Three-wheeled powered vehicle. 223,045, 2-29-72, Cl. D90-8.
Sucre, Jay, and W. A. Hoffman, to Burroughs Corp. Microfilm viewer. 223,863, 6-13-72, Cl. D61-1.
Sucre, Jay, and W. A. Hoffman, to Burroughs Corp. Combined self-scan display and keyboard controls. 224,784, 9-19-72, Cl. D26-5.
Sud-Atlas-Werke G.m.b.H.: See—
Tupaj, Manfred P., and Engert. 224,322.
Suganoya, Yoshio, and T. Miyake, to Sharp Kabushiki Kaisha (Sharp Corp.). Electronic cooking range (model R-6500). 225,579, 12-19-72, Cl. D81-4.
Sugihara, John Y., to Gemini International Corp. Clock radio. 225,667, 12-26-72, Cl. D42-7.
Sugihara, Osamu: See—
Nakamura, Yasunobu, Sumino, Sugihara, Ueda, and Terauchi. 224,346.
Sullivan, John J. Trouser hanger. 225,505, 12-19-72, Cl. D6-252.
Sumino, Tadashi: See—
Nakamura, Yasunobu, Sumino, Sugihara, Ueda, and Terauchi. 224,346.
Sumino, Tadashi, T. Tokuda, K. Ueda, Y. Nakamura, O. Sugihara, and M. Terauchi, to Matsushita Electric Industrial Co., Ltd. Combined radio receiver, tape recorder and television receiver. 225,372, 12-5-72, Cl. D56-4.
Summers, Marlon K. Combined clock face and picture frame. 222,840, 1-11-72, Cl. D42-7.
Summers, Marlon K. Letter holder. 224,669, 8-22-72, Cl. D74-9.
Sun, George C. Aerial toy. 225,250, 11-28-72, Cl. D34-15.
Sunbeam Corp.: See—
Ernest, Robert O. 223,076.
Herbst, Walter B., and La Zar. 224,552.
Ireland, Edward A. 223,973.
Long, Douglas G., and Waters. 223,068.
Mango, Joseph R. 224,224.
Mango, Joseph R. 224,226.
Mango, Joseph R. 224,227.
Steinkamp, Norman A. 223,067.
Sundberg, Carl W.: See—
Barecki, Chester J., Sundberg, and Ferar. 223,025.
Superior Mfg. Co.: See—
Dorn, Chester. 222,822.
Superior Optical Co.: See—
Rios, Gilbert. 223,784.
Superior Plastic Products Co.: See—
Brodsky, David L., and E. J. 223,247.
Supermarkets General Corp.: See—
Coplon, Robert. 225,517.
Survival Oriented Systems Co.: See—
McArthur, David T. 225,564.
Suslovich, Vladimir M. Golf club putter head. 225,118, 11-14-72, Cl. D34-5.
Svenska Ackumulator Aktiebolaget Jungner: See—
Ulrich, Theodore. 223,668.
Swan, Terry D. Snowmobile. 224,301, 7-18-72, Cl. D14-24.
Swank, Inc.: See—
Ehrensall, Jay. 223,979.
Goldfeder, Melvin A. 223,314.
Swank, Percy A. Footstool. 225,492, 12-19-72, Cl. D6-32.
Swanson, Walter A., and M. E. De Souza. Mop wringer. 223,774, 6-6-72, Cl. D49-29.
Swanson, Keith N. Photographic timer. 224,130, 7-4-72, Cl. D42-7.
Swarthout, Kenneth L. Restaurant building. 224,519, 8-1-72, Cl. D13-1.

- Swartzbaugh, Peter, to Abbott Laboratories. Dispensing top for a container. 224,091, 7-4-72, Cl. D9-257.
Swayze, Samuel F., to Eastman Kodak Co. Motion picture camera. 223,176, 3-21-72, Cl. D61-1.
Swett, James B.: See—
Ashton, Harold P., and Swett. 224,674.
Ashton, Harold P., and Swett. 225,170.
Ashton, Harold P., and Swett. 225,286.
Swett, James B., and J. V. Croyle, to Dart Industries, Inc. Container closure or the like. 223,854, 6-13-72, Cl. D44-1.
Swett, James B., to Dart Industries, Inc. Sink pad holder. 224,133, 7-4-72, Cl. D44-1.
Swett, James B., to Rexall Drug and Chemical Co. Lunch box. 224,554, 8-1-72, Cl. D44-1.
Swett, James B., and H. P. Ashton, to Dart Industries, Inc. Combined serving containers and holder therefor. 224,553, 8-1-72, Cl. D44-1.
Swett, James B., and H. P. Ashton, to Dart Industries, Inc. Serving tray. 224,662, 8-22-72, Cl. D44-15.
Swimrite, Inc.: See—
Clinton, Harry M. 224,401.
Swimrite Mfg. Co., Inc.: See—
Clinton, Harry M. 223,250.
Swirple, Walter. Disc dispenser. 224,340, 7-18-72, Cl. D52-2.
Switzer, William D., Jr. Harmonica. 224,268, 7-11-72, Cl. D56-1.
Sybron Corp.: See—
Valeska, John J. 223,919.
Valeska, John J. 223,920.
Sylvania Electric Products Inc.: See—
Brooks, David N., and Edin. 225,056.
Sylvester, Joseph A., to Hexacon Electric Co. Soldering iron stand. 223,101, 3-14-72, Cl. D8-71.
Sylvester, Joseph A., to Hexacon Electric Co. Electric soldering equipment matching instrument. 224,319, 7-18-72, Cl. D26-1.
Symbolics, Inc.: See—
Papavasiliou, Elaine J. 225,652.
Synergistics: See—
Sackler, Mortimer D., and Craig. 225,211.
Syracuse China Corp.: See—
McMahon, Rebecca M. 225,255.
Systematiks, Inc.: See—
Grabhorn, Robert H. 224,923.
Szczepanski, Harry. Spray painting machine. 222,982, 2-15-72, Cl. D55-1.
Szeles, Donald M., to Sensors, Inc. Radiant energy detector. 225,405, 12-12-72, Cl. D26-1.
Szopo, Alexander. Combined salt and pepper shaker. 223,275, 4-4-72, Cl. D44-22.
TC Products: See—
Court, Jules A. 225,227.
TRW Data Systems, Inc.: See—
Chrysosopoulos, Demosthenis, and Minka. 223,159.
Minka, George F. 224,014.
Minka, George F. 224,020.
Minka, George F., and Bustamante. 224,021.
Nelson, Dan, and Hutton. 223,160.
TSI, Inc.: See—
Taiman, John T., and Paddock. 224,840.
Tachi, Ichiro, to Kabushiki Kaisha Asakusa Gangu Educational toy. 222,899, 2-22-72, Cl. D25-1.
Taiman, Edward C., to Cannon Mills Co. Towel or similar article. 223,320, 4-4-72, Cl. D92-26.
Taiman, Edward C., to Cannon Mills Co. Sheet or similar article of bed linen. 223,322, 4-4-72, Cl. D92-26.
Taiyo Kogyo Co., Ltd.: See—
Nohmura, Ryotaro. 224,073.
Takagi, Makoto, to Tokyo Seimitsu Co., Ltd. Electronic micrometer. 223,725, 5-30-72, Cl. D52-6.
Takagi, Nobuyoshi, and T. Hattori, to Nippondenso Kabushiki Kaisha. Power driven radio antenna for automobile. 223,603, 5-16-72, Cl. D14-6.
Takamatsu, Takezo: See—
Mori, Shinjiro. 223,390.
Takahashi, Shiro, to Bridgestone Tire Co. Ltd. Vehicle tire. 224,818, 9-19-72, Cl. D90-20.
Takata, Denkiichi, to Mamiya Koki Kabushiki Kaisha (a.k.a. Mamiya Camera Co., Ltd.). Interchangeable camera lens. 223,215, 3-28-72, Cl. D61-1.
Takata, Denkiichi, to Mamiya Koki Kabushiki Kaisha, a.k.a. Mamiya Camera Co., Ltd. Camera. 223,124, 3-14-72, Cl. D61-1.
Takeuchi, Kazutaka, to Tomy Kogyo Co., Ltd. Toy trackway. 224,089, 7-4-72, Cl. D34-015.
Tall, Kenneth I.: See—
Tall, Nathan I., and K. I. 223,428.
Tall, Nathan I., and K. I., to Kenco Products Corp. Beverage dispenser. 223,428, 4-11-72, Cl. D94-3.
Taiman, John T., and W. C. Paddock, to TSI, Inc. Plastic film dispenser. 224,840, 9-26-72, Cl. D52-2.
Tampa Stereo Center, Inc.: See—
Viviano, Thomas R. Troy, and Ginn. 225,382.
Tanaka, Norihito, to Lith Industrial Co., Ltd. Punch. 223,552, 5-2-72, Cl. D74-1.
Tanaka, Shoji Kabushiki Kaisha: See—
Tanaka, Yoshihisa. 223,420.
Tanaka, Teru. Tea infuser. 225,671, 12-26-72, Cl. D44-26.
Tanaka, Yoh, to Fujii Shashin Film Kabushiki Kaisha. Motion picture projector. 224,057, 6-27-72, Cl. D61-1.
Tanaka, Yoshihisa, to Tanaka Shoji Kabushiki Kaisha. Cigarette dispenser. 223,420, 4-11-72, Cl. D85-2.
Tanco Co., Ltd.: See—
Hanamura, Kenji. 223,997.
Hanamura, Kenji. 225,617.
Tandberg, Eva. Weaving frame. 225,287, 11-28-72, Cl. D92-15.
Tangard, Einar W.: See—
Garfinkle, Marvin E., Schmeck, and Tangard. 223,009.
Schmeck, Robert E., and Tangard. 224,666.
Tanis, Marvin W., and R. A. Kwekel. Combined toy top and handle. 225,423, 12-12-72, Cl. D34-15.
Tape-Licator, Inc.: See—
Boyce, Elvin L. 225,577.
Tartar, Stanley. Money tree bank. 225,119, 11-14-72, Cl. D34-11.
Tate, John R., and J. C. Pigg. Pistol grip for fishing rod. 225,528, 12-19-72, Cl. D22-23.
Taylor, Alan N.: See—
Specht, Paul B., and Taylor. 223,473.
Taylor, Bill E. Gameboard for parlor games. 223,115, 3-14-72, Cl. D34-5.
Taylor, Bill E. Gameboard for parlor games. 223,116, 3-14-72, Cl. D34-5.
Taylor, Charles P., to Southern Extrusions, Inc. Scaffold plank. 222,894, 1-25-72, Cl. D54-1.
Taylor, George F. Sheller for peas or the like. 224,179, 7-4-72, Cl. D89-91.
Taylor, James C. Gift package for golf accessories. 223,336, 4-11-72, Cl. D9-193.
Taylor, Johnnie D. Sidewalk scooter. 225,546, 12-19-72, Cl. D34-15.
Taylor, William D., to Rubbermaid Inc. Bath mat. 223,279, 4-4-72, Cl. D44-31.
Technalitics Inc.: See—
Chodorow, Ingram S. 224,458.
Tecno S.p.A.: See—
Gerli, Engenio. 224,285.
Tegner, Raymond U. H., to Amerock Corp. Tissue holder. 224,767, 9-19-72, Cl. D6-97.
Tegner, Raymond U. H., to Amerock Corp. Towel ring. 224,770, 9-19-72, Cl. D33-32.
Tegner, Raymond U. H., to Amerock Corp. Towel. 224,771, 9-19-72, Cl. D6-99.
Tegner, Raymond U. H., to Amerock Corp. Escutcheon. 224,776, 9-19-72, Cl. D8-179.
Tegner, Raymond U. H., to Amerock Corp. Cabinet hardware. 225,302, 12-5-72, Cl. D8-166.
Tegner, Raymond U. H., to Amerock Corp. Pull. 225,303, 12-5-72, Cl. D8-174.
Tegner, Raymond U. H., to Amerock Corp. Door knocker. 225,304, 12-5-72, Cl. D8-177.
Tegner, Raymond U. H., to Amerock Corp. Wall plate. 225,305, 12-5-72, Cl. D8-178.
Teichmeier, Franklin J. Ratchet wrench with offset handle. 225,606, 12-26-72, Cl. D8-25.
Tejeda, Oscar G., and H. A. Shortway, to Congoleum Industries, Inc. Solid surface floor covering or similar article. 222,958, 2-8-72, Cl. D92-4.
Tejeda, Luis H., to Mallinckrodt Chemical Works. Syringe. 223,643, 5-16-72, Cl. D83-12.
Telecommunications Industries, Inc.: See—
Stahl, Donald P. 223,568.
Stahl, Donald P. 224,459.
Stahl, Donald P. 225,585.
Stahl, Donald P. 225,586.
Telefonaktiebolaget LM Ericsson: See—
Sjoholm, Hans. 223,672.
Telephone Mfg. Co. Ltd.: See—
Rhodes, John G. L. 224,234.
Telesco Brophy Ltd.: See—
Bremshey, Manfred. 223,183.
Bremshey, Manfred. 223,525.
Telvue, Inc.: See—
Melton, Jerry T. 223,861.
Teller, Howard S., Jr., to Merchandising Aids, Inc. Radio. 222,814, 1-4-72, Cl. D56-4.
Ten Eyck, Richard E.: See—
Fell, Ferol S., Long, Wells, and Ten Eyck. 223,466.
Terauchi, Makoto: See—
Nakamura, Yasunobu, Sumino, Sugihara, Ueda, and Terauchi. 224,346.
Terra-Sancta Creations, Inc.: See—
Bethune, Ade. 223,993.
Bethune, Ade. 224,599.
Terrell, William H., to Diebold, Inc. Pneumatic tube system carrier storage tray. 224,367, 7-18-72, Cl. D87-1.
Terry, Leonard E., to Leda Cars Ltd. Model racing car. 223,542, 5-2-72, Cl. D34-15.
Testro, Keith R.: See—
Testro, Rex C. and K. R. 225,588.
Testro, Rex C. and K. R. Combined blotter pad end portfolio. 225,588, 12-19-72, Cl. D87-3.
Teter, Billy B. Fish killing tool. 225,633, 12-26-72, Cl. D22-31.
Textile Chemicals, Inc.: See—
Rosfeld, Jack H. 224,286.
Textron Inc.: See—
Boehm, Kurt B. 223,820.
Boehm, Kurt B. 223,821.
Courtial, Albert W. 225,575.
Earl, T. Desmond. 224,607.

- Theobald, Elwin: *See*—
 Coon, James A., and Theobald. 222,796.
 Coon, James A., and Theobald. 223,744.
 Thexton Mfg. Co.: *See*—
 Burandt, Corliss O. 224,109.
 Third Eye, Inc.: *See*—
 Sexton, Edward. 224,141.
 Thomas, Annie R. Palm held air styling tool. 224,847, 9-26-72, Cl. D86-8.
 Thomas & Betts Corp.: *See*—
 Schwartz, Richard S. 222,878.
 Thomas, Earl F. Foot platform for trucks. 225,160, 11-21-72, Cl. D14-6.
 Thomas, Hudson. Anti-bounce control arm insert for automobile rear-end suspension systems. 223,024, 2-29-72, Cl. D14-6.
 Thomas, Morton I. Reclining chair. 223,245, 4-4-72, Cl. D15-11.
 Thompson, Frederick W., to Packard Instrument Co. Liquid scintillation spectrometer for determining radioactivity levels in test samples. 224,069, 6-27-72, Cl. D83-1.
 Thompson, Howard E.: *See*—
 Merck, Walter J., and Thompson. 222,842.
 Thompson, Maxwell O. Distance sight measuring device. 223,723, 5-30-72, Cl. D52-6.
 Thompson, Ronald A. Ring. 225,441, 12-12-72, Cl. D45-10.
 Thomson, Ernest F., to KMS Industries, Inc. Headset. 223,256, 4-4-72, Cl. D26-14.
 Thomson, Ernest F., to Lever Brothers Co. Bottle or similar article. 223,807, 6-13-72, Cl. D9-42.
 Thornell, Ernest L., to Marlin Toy Products, Inc. Housing for a toy music box. 224,661, 8-22-72, Cl. D34-15.
 Thrasher, Wilbert E. Dual plug cleaner. 225,257, 11-28-72, Cl. D49-11.
 Thrush, James L., to Anchor Hocking Corp. Tumbler or similar article. 224,797, 9-19-72, Cl. D36-8.
 Thunman, Rolf A. Decorative arch for electric lamps. 225,672, 12-26-72, Cl. D48-14.
 Thurmer, Regomar A.: *See*—
 Kavanagh, Thomas S., Ralston, Campbell, Awelda, and Thurmer. 223,922.
 Tiller, James A. Bath tub. 224,302, 7-18-72, Cl. D23-55.
 Tilley, Alvin R.: *See*—
 Bullock, Edward K., Burke, Conner, Dietz, Morse, and Tilley. 223,730.
 Tilley, Melvin M., to Kaiser Aluminum & Chemical Corp. Tapered I-beam for diving boards and the like. 223,488, 4-25-72, Cl. D13-1.
 Tillinger, Edwin B. Turtle shell toy. 223,048, 3-7-72, Cl. D34-2.
 Tintary, Ray: *See*—
 Miller, George F., and Tintary. 223,433.
 Tipton, Max E., to Seating Co. of America, Inc. Stadium seat or similar article. 224,955, 10-24-72, Cl. D15-8.
 Tissot, Leon. Flower pot. 223,464, 4-13-72, Cl. D35-3.
 Tixier, Michel, to Regie Nationale des Usines Renault. Automobile vehicle body. 223,190, 3-28-72, Cl. D14-3.
 Tixier, Michel, to Regie Nationale des Usines Renault, and Automobiles Peugeot. Slider casing for safety belt. 224,283, 7-18-72, Cl. D2-408.
 Tobey, Alton E. Air cooled tire rasping wheel. 225,552, 12-19-72, Cl. D37-1.
 Todeschini, Bruno. Telephone set or similar article. 224,542, 8-1-72, Cl. D26-14.
 Toeppen, Thurst H.: *See*—
 Sanger, David M., and Toeppen. 225,380.
 Tofolon, Siro R., to International Silver Co. Spoon or similar article of flatware. 223,405, 4-11-72, Cl. D54-12.
 Tofolon, Siro R., to International Silver Co. Spoon or similar article of flatware. 223,406, 4-11-72, Cl. D54-12.
 Tofolon, Siro R., to International Silver Co. Spoon or similar article of flatware. 225,679, 12-26-72, Cl. D54-12.
 Toiseux, Pierre M. J., to Ronson Corp. Warming stand. 225,669, 12-26-72, Cl. D44-10.
 Toiseux, Pierre, to Ronson Corp. Cigarette lighter. 225,675, 12-26-72, Cl. D48-27.
 Tokuda, Toshiaki: *See*—
 Ishikawa, Tadao, and Tokuda. 224,575.
 Sumino, Tadashi, Tokuda, Ueda, Nakamura, Sugihara, and Terauchi. 225,372.
 Tokyo Seimitsu Co., Ltd.: *See*—
 Takagi, Makoto. 223,725.
 Tokyo Shibaura Electric Co., Ltd.: *See*—
 Mikami, Yatsuya. 224,026.
 Tolomizenko, Walter P. Helicopter kite toy. 223,117, 3-14-72, Cl. D34-15.
 Tomlach, George R.: *See*—
 Gomel, Richard H., Ozar, and Tomlach. 225,627.
 Tomlinaga, Naoki, to Sanyo Electric Co., Ltd. Combined 8-track tape transport, amplifier and tuner therefor. 224,742, 9-12-72, Cl. D26-14.
 Tomiyama, Eihiro, to Tomy Kogyo Co., Ltd. Toy parking garage. 224,427, 7-25-72, Cl. D34-15.
 Tompkins, David D.: *See*—
 Hartsell, Hal C., Jr., and Tompkins. 223,289.
 Tomy Kogyo Co., Ltd.: *See*—
 Takeuchi, Kazutaka. 224,089.
 Tomiyama, Eihiro. 224,427.
 Tong, Duncan. Base for natural or artificial flowers. 223,379, 4-11-72, Cl. D35-3.
 Tonka Corp.: *See*—
 Peterson, Vernon A. 225,251.
 Zbikowski, Theodore H., and Pfeilsticker. 223,944.

- Tornoe, John A., and R. A. Marotto, to Schlage Lock Co. Lock set handle. 225,047, 11-7-72, Cl. D8-138.
 Toro Mfg. Corp.: *See*—
 Dickgiesser, Robert W. 224,715.
 Torrey, Frank R. Portable student writing tray. 225,290, 12-5-72, Cl. D6-138.
 Torrey, Frank R. Combined easel and work support stand therefor. 225,292, 12-5-72, Cl. D6-181.
 Torrey, Frank R. Work easel. 225,293, 12-5-72, Cl. D6-181.
 Totalator S.A.: *See*—
 Revillon, Rene-Louis. 223,306.
 Toth, Richard J.: *See*—
 Krumin, Donald K., and Toth. 229,955.
 Krumin, Donald K., and Toth. 223,097.
 Toyo Valve Co., Ltd.: *See*—
 Okano, Masao. 223,914.
 Trans World Display Corp.: *See*—
 Schoenfeld, Alexander N. 223,291.
 Transidyne General Corp.: *See*—
 Vanden Broek, Jan A. 224,278.
 Tray-X Corp.: *See*—
 Golden, Henry, and Genca. 223,302.
 Tremel, Raymond F., and T. C. Christian, to Ar-Ka-Mo Sporting Goods, Inc. Game board. 224,122, 7-4-72, Cl. D34-5.
 Trenka, Lew J. Motion picture camera. 223,412, 4-11-72, Cl. D61-11.
 Triangle Mobile Home Products, Inc.: *See*—
 Nagel, Robert I. 223,954.
 Nagel, Robert I. 223,955.
 Trickey, Ronald H., to Electrosl Ltd. Electrical connector primarily intended for connection to a dual-in-line integrated circuit. 223,000, 2-22-72, Cl. D26-1.
 Trickey, Ronald H., to Electrosl Ltd. Electrical connector primarily intended for connection to a dual-in-line integrated circuit. 225,108, 11-14-72, Cl. D26-1.
 Trilux-Lenze KG.: *See*—
 Clostermann, Friedrich. 224,894.
 Trinca, Frederick. Door knob safety latch for automobiles. 223,139, 3-21-72, Cl. D8-109.
 Trinca, Frederick. Door knob safety latch for automobiles. 223,140, 3-21-72, Cl. D8-109.
 Troy, John C.: *See*—
 Viviano, Thomas R., Troy, and Ginn. 225,382.
 Triple C Co.: *See*—
 Menzer, William J., and Hoffmann. 223,186.
 Triumph Werke Nuremberg A.G.: *See*—
 Link, Manfred. 223,301.
 True Temper Corp.: *See*—
 Endo, Koji, and Fukazawa. 223,605.
 Hess, Roy P. 223,606.
 Tsubata, Fusaaki, to Imasen Electric Co., Ltd. Horn. 222,927, 2-1-72, Cl. D72-1.
 Tsunokawa, Kiyoo, and Z. Fukushima, to Hitachi Cable, Ltd., and Japan Power Safety Device M.F.G. Co., Ltd. Earth bar. 223,604, 5-23-72, Cl. D26-1.
 Tsuruta, Tetsuo.: *See*—
 Fujita, Takeshige, and Tsuruta. 223,281.
 Fujita, Takeshige, and Tsuruta. 223,286.
 Tsutsui, Thomas K. Combined shoe horn and key holder. 223,974, 6-20-72, Cl. D86-10.
 Tuccio, Raymond.: *See*—
 Zimmerman, Charles R., and Tuccio. 223,085.
 Tucker, Augusta, Jr. Beach insertable standard for pair of fishing poles with fish alarms. 223,092, 3-7-72, Cl. D22-22.
 Tucker, James E., to The Gillette Co. Comb. 223,880, 6-13-72, Cl. D86-8.
 Tucker, James E., and J. Doblin, to The Gillette Co. Hair dryer. 225,587, 12-19-72, Cl. D86-10.
 Tudor Accessories Ltd.: *See*—
 Kirkbride, Alec B. 224,531.
 Tupaj, Manfred P., and H. Engert, to Sud-Atlas-Werke G.m.b.H. Tape recorder. 224,322, 7-18-72, Cl. D26-14.
 Turner, Anthon H., to Turner and Sons. Charcoal oven. 223,065, 3-7-72, Cl. D81-10.
 Turner, Calne and C. M. Combined game table and seating unit. 224,611, 8-15-72, Cl. D6-45.
 Turner, Connie M.: *See*—
 Turner, Calne and C. M. 224,611.
 Turner, Howard M.: *See*—
 Adomaitis, Domas, and Turner. 222,851.
 Turner and Sons.: *See*—
 Turner, Anthon H. 223,065.
 Turner, William A. Bottle. 223,484, 4-25-72, Cl. D9-160.
 Turtle Wax, Inc.: *See*—
 Schmid, Carl F. 225,620.
 Turturro, Michael A. Water filter or similar article. 224,105, 7-4-72, Cl. D23-4.
 Twinpak Ltd.: *See*—
 Gaston, Cantin. 225,618.
 Tyler, Forrest E. Game board. 224,548, 8-1-72, Cl. D34-5.
 Tyrell, Gill T., to Simpson Co. Holddown for anchoring wall studs in frame construction to building foundations. 224,083, 7-4-72, Cl. D8-233.
 Tyrrell Racing Organisation Ltd.: *See*—
 Gardner, Derek. 225,354.
 Tytel, Bernard, to Award International, Inc. Inflatable wading pool. 224,241, 7-11-72, Cl. D34-5.
 UVC-Inc.: *See*—
 Duolos, George. 225,339.
 Uchida, Isamu, to Kosoky Electric Co., Ltd. Insulation-striping pliers. 224,880, 10-3-72, Cl. D8-58.

- Ueda, Kazuhiro: *See*—
 Nakamura, Yasunobu, Sumino, Sugihara, Ueda, and Terauchi. 224,346.
 Sumino, Tadashi, Tokuda, Ueda, Nakamura, Sugihara, and Terauchi. 225,372.
 Uitz, Mark O.: *See*—
 Skinner, James R., Uitz, and Hait. 225,181.
 Ukai, Kiyoshi: *See*—
 Ikeda, Hitoshi, and Ukai. 225,483.
 Ullano, Silvio P. Alphabet key blanks. 225,301, 12-5-72, Cl. D8-136.
 Ullsniik, Harold D., and A. C. Whyte, to United Aircraft Corp. Aircraft. 223,128, 3-14-72, Cl. D71-1.
 Ulrich, Theodore, to Svenska Ackumulator Aktiebolaget Jungner. Battery cable connection post. 223,668, 5-23-72, Cl. D26-1.
 Uniflow Mfg. Co.: *See*—
 Horn, John H. 225,401.
 Union Carbide Corp.: *See*—
 Frazer, John S. 223,896.
 Union Fork and Hoe Co., The: *See*—
 Hart, Walter R. 223,794.
 Unroyal, Inc.: *See*—
 Beaudoin, Dale J., and Pope. 223,645.
 Beaudoin, Dale J. 224,376.
 Blankenship, Arthur C. 224,180.
 Busch, Robert F., and Pope. 223,599.
 Busch, Robert F., and Pope. 224,379.
 Maxemovich, Marco. 224,375.
 Newman, James F. 224,075.
 Newman, James F. 224,377.
 Newman, James F. 224,378.
 Pope, William K. 223,646.
 Pope, William K. 224,181.
 United Aircraft Corp.: *See*—
 Ullsniik, Harold D., and Whyte. 223,128.
 United Ins. Mfg. Corp.: *See*—
 Schwartz, Howard L. 224,294.
 United McGill Corp.: *See*—
 Kiner, David L. 224,703.
 McVay, Robert D. 225,568.
 United Research Laboratory: *See*—
 Adams, George, and Hawkins. 223,254.
 United States of America
 Army: *See*—
 Humphreys, Adolph H. 225,536.
 Marick, Louis. 225,040.
 Marick, Louis. 225,041.
 U.S. Industries, Inc.: *See*—
 Peters, Howard. 224,197.
 Schwartz, Werner W. 225,608.
 U.S. Philips Corp.: *See*—
 Bettonica, Franco. 224,368.
 Van de Poel, Robertus. 224,711.
 Van de Poel, Robertus. 224,712.
 Van Lelyveld, Maarten W. 224,380.
 Van Lelyveld, Maarten W. 224,729.
 U.S. Plywood-Champion Papers Inc.: *See*—
 Ashby, Frederick R., and Luebs. 222,856.
 Ashby, Frederick R., and Ropella. 223,909.
 Kammath, Richard H., Harrison, and Bauer. 222,855.
 U.S. Ring Trailer Co.: *See*—
 Dauray, Charles H., and Bliss. 224,957.
 Dauray, Charles H., and Bliss. 224,959.
 Buhren, Wilhelm. 225,009.
 Yran, Knut O. 225,487.
 Universal Lamp Co., Inc.: *See*—
 Andre, Dan M. 223,282.
 University of Utah: *See*—
 Bliss, Robert L. 224,485.
 Upjohn Co., The: *See*—
 Fites, Larry L., Mann, and Utrecht. 225,049.
 Ussery, Cecil F., to Ussery Industries, Inc. Vending machine. 224,145, 7-4-72, Cl. D52-3.
 Ussery Industries, Inc.: *See*—
 Ussery, Cecil F. 224,145.
 Utrecht, Karl A.: *See*—
 Fites, Larry L., Mann, and Utrecht. 225,049.
 V & E Friedland Ltd.: *See*—
 Doggart, John. 223,304.
 Vaco Products Co.: *See*—
 Wheeler, Roger W. 225,272.
 Valaguzza, Dino. Suitcase. 225,590, 12-19-72, Cl. D87-5.
 Valeska, John J., to Sybron Corp. Dental cabinet or the like. 223,919, 6-20-72, Cl. D24-1.
 Valeska, John J., to Sybron Corp. Dental cabinet counter top. 223,920, 6-20-72, Cl. D24-1.
 Valic, Anton J. Double desk. 223,838, 6-13-72, Cl. D33-7.
 Vallis, Joseph, to Dent & Vallis. Handle for brushes or combs. 222,794, 1-4-72, Cl. D4-35.
 Valverde, Manuel. Ash tray. 223,553, 5-2-72, Cl. D85-2.
 Van Arnam, Donald E., to Avery Products Corp. Tool for embossing strips of material. 224,453, 7-25-72, Cl. D64-10.
 Van Ausdall, Richard L. Combined molded ski container and carrier. 222,848, 1-11-72, Cl. D87-1.
 Van de Poel, Robertus, to U.S. Philips Corp. Dictating machine. 224,711, 9-5-72, Cl. D26-14.
 Van de Poel, Robertus, to U.S. Philips Corp. Dictating machine. 224,712, 9-5-72, Cl. D26-14.
 Van Kyk Research Corp.: *See*—
 Hoyt, Earl E. 224,351.
 Van Lelyveld, Maarten W., to Carinthia Elektrogerate G.m.b.H. Electric dry shaver. 222,929, 2-1-72, Cl. D95-3.

- Van Lelyveld, Maarten W., to U.S. Philips Corp. Dry shaver. 224,380, 7-18-72, Cl. D95-3.
 Van Lelyveld, Maarten W., to U.S. Philips Corp. Electric shaver. 224,729, 9-5-72, Cl. D95-3.
 Van Lon Ran, Ltd.: *See*—
 Van Palin, William B. 223,309.
 Van Ryn, Joop M., to The Pedlar People Ltd. Locker door handle. 224,506, 8-1-72, Cl. D8-148.
 Van Syoc, Auburn G., to Lu Van Inc. Convertible table. 225,190, 11-28-72, Cl. D6-3.
 Van Syoc, Wendell M., and L. K. Davis, to Deere and Co. Tractor. 224,525, 8-1-72, Cl. D14-3.
 Van Vain, William B., to Van Lon Ran, Ltd. Medical lubricant tube support stand and tube sealing arrangement therefor. 223,309, 4-4-72, Cl. D83-1.
 Van Valkinburgh, Robert H.: *See*—
 Kalvitis, Robert E., and Van Valkinburgh. 224,019.
 Van Voorhis, Richard A. Combined apparel rack and laundry bag support stand. 224,042, 6-27-72, Cl. D49-8.1.
 Vanden Broek, Jan A., to Transidyne General Corp. Electronic assembly for biological studies. 224,278, 7-11-72, Cl. D83-1.
 Vanderhyde, Harold J., to The Procter & Gamble Co. Jug. 224,733, 9-12-72, Cl. D9-42.
 Vandewater, Katherine B. Christmas ornament. 223,004, 2-22-72, Cl. D29-1.
 Vasel, Melvin L. Gas meter cover. 222,869, 1-18-72, Cl. D52-6.
 Vaskunas, Vyantas A., to Interface Industries, Inc. Sales terminal. 224,539, 8-1-72, Cl. D26-5.
 Vaughn, David E.: *See*—
 Hutchinson, Stanley H. 225,597.
 Hutchinson, Stanley H. 225,599.
 Vaughan, Woodrow E., and G. D. Reed, to Modern Plastic Sales, Rake head. 223,743, 6-6-72, Cl. D8-13.
 Vec/Trak Research & Development Corp.: *See*—
 Warren, Maurice A. 224,022.
 Vecchi, Carlo, In-line fuel filter. 223,827, 6-13-72, Cl. D23-4.
 Vecta Group, Inc.: *See*—
 Acton, Hugh C. 224,876.
 Acton, Hugh C. 225,141.
 Veech, Robert D. Combined lamp, metronome and desk set. 223,468, 4-18-72, Cl. D48-20.
 Veech, Robert D. Portable shower. 223,575, 5-9-72, Cl. D23-57.
 Venaleck, Howard J. Face mask. 224,277, 7-11-72, Cl. D83-1.
 Vendo Co., The: *See*—
 Gran, William A. 223,957.
 Vennettill, Raymond M. Glove. 225,139, 11-21-72, Cl. D2-372.
 Vergamini, Paul L.: *See*—
 Harris, Billy J., Vergamini, and Yagelowich. 225,567.
 Verifo Corp.: *See*—
 Warner, Douglas J., and Wolf. 224,364.
 Vernitron Medical Products Inc.: *See*—
 Kittner, Benjamin. 225,185.
 Vetere, John J.: *See*—
 Audesse, Emery G., Vetere, and Westlund. 225,565.
 Vexilar, Inc.: *See*—
 Knutson, Robert C. 222,941.
 Vibra-Baths Home Products, Inc.: *See*—
 Cutler, Lester M., and Friedman. 225,038.
 Victory Engineering Corp.: *See*—
 Miller, M. Louis. 224,147.
 Victory-Puretec, Inc.: *See*—
 Purer, Phillip. 224,140.
 Viera, Anthony A., E. R. Woolley, and J. W. Jepson, to Acushnet Co. Golf club head. 225,123, 11-14-72, Cl. D34-5.
 Vigan, Elaine G. Game device. 225,239, 11-28-72, Cl. D34-5.
 Vigan, Elaine G. Combined game device and savings bank. 225,657, 12-26-72, Cl. D34-11.
 Vigna, Ralph M., to Eastman Kodak Co. Apparatus for processing film. 223,055, 3-7-72, Cl. D61-1.
 Vikoa, Inc.: *See*—
 Horak, Martin S. 223,368.
 Vinas, Marcelo G. Game target. 222,978, 2-15-72, Cl. D34-5.
 Vines, Ellsworth, to Baltimore Brushes, Inc. Paint tray. 223,864, 6-13-72, Cl. D64-18.
 Vinson, Billy H., to Integrated Controls, Inc. Oscilloscope camera hood. 223,549, 5-2-72, Cl. D61-1.
 Viviano, Thomas R., J. C. Troy, and R. Ginn, to Tampa Stereo Center, Inc. Display rack. 225,382, 12-5-72, Cl. D80-9.
 Vohs, John K., to The Goodyear Tire & Rubber Co. Tire. 223,316, 4-4-72, Cl. D90-20.
 Voice of the Flower Ltd.: *See*—
 Wilson, James B. 222,813.
 Voigt, Paul A., to Johns-Manville Corp. Ceiling panel. 223,351, 4-11-72, Cl. D18-2.
 Vollquartz, Verner, to Ex-Cell-O Corp. Container for beverages or the like. 224,646, 8-22-72, Cl. D9-218.
 Volpe, Raymond R., to Wedge House, Inc. Tire. 223,598, 5-9-72, Cl. D90-20.
 Von Grossmann, Karl G., to Dental Products, Inc. Dental cotton roll holder. 222,863, 1-18-71, Cl. D24-1.
 Voros, Joseph F. Fishing lure body. 224,833, 9-26-72, Cl. D22-28.
 Voth, Robert J., to Ess'Tee Industries. Pendulum amusement device. 222,908, 2-1-72, Cl. D25-1.
 Voytko, Charles.: *See*—
 Boucher, Raymond, and Voytko. 224,374.
 Pierson, Raymond L., and Voytko. 225,601.
 Voytko, Charles L., to Hedstrom Co. High chair. 224,079, 7-4-72, Cl. D6-8.

- Voytko, Charles L., to Hedstrom Co. Infant's dressing table. 224,872, 10-3-72, Cl. D6-168.
- VueTech Corp.: *See*—
- Wells, Willis L., 223,728.
- Vuilleumier, Gaston, to Ebauches Electroniques S.A. Wrist-watch. 225,429, 12-12-72, Cl. D42-8.
- Vuyovich, Mile: *See*—
- Vuyovich, Mile, and Werle. 223,959.
- Vuyovich, Mile, and O. P. Werle, to Mile Vuyovich. Drafting ruler or similar article. 223,959, 6-20-72, Cl. D52-6.
- W. L. Plastics and Metal Producers Co., Ltd.: *See*—
- Finkel, Henry. 223,415.
- Waag, Bruce. Revolving tray storage unit. 225,513, 12-19-72, Cl. D9-232.
- Wada, Eiichi, and Y. Ono, to Pioneer Electronic Corp. Magnetic tape cartridge. 224,683, 8-29-72, Cl. D26-14.
- Wada, Hideo, S. Nashinoki, I. Kato, and T. Murakami, to Matsushita Electric Industrial Co., Ltd. Combined electric phonograph, cassette recorder and reproducer and radio or similar article. 223,294, 4-4-72, Cl. D56-4.
- Waddell, Theodore. Column lamp. 223,589, 5-9-72, Cl. D48-20.
- Waddell, Theodore. Electric lamp. 225,163, 11-21-72, Cl. D26-8.
- Waddle Thirl J. W. D. Wood, V. L. Jackson; said Wood and said Jackson assors. to J. Lloyd Patton. Pitching game target. 224,242, 7-11-72, Cl. D34-5.
- Wadsworth Control Systems, Inc.: *See*—
- Dean, George J., Jr. 224,785.
- Wagner Electric Corp.: *See*—
- Stehl, George R., and November. 222,909.
- Wahl Associates, Inc.: *See*—
- Wahl, Michael. 223,477.
- Wahl, Eugene A. Pneumatic valve for controlling flow or material from a hopper. 224,718, 9-5-72, Cl. D55-1.
- Wahl, Michael, to Wahl Associates, Inc. Modular unit for display rack. 223,477, 4-18-72, Cl. D80-10.
- Walte, Ralph D., to Ametek, Inc. Pressure gauge. 225,268, 11-28-72, Cl. D52-6.
- Wald Mfg. Co., Inc.: *See*—
- Humlong, Robert F. 224,464.
- Humlong, Robert F. 224,465.
- Humlong, Robert F. 224,467-73.
- Humlong, Robert F. and Pawsat. 223,075.
- Pawsat, Carlton P. 223,554.
- Pawsat, Carlton P. 224,466.
- Pawsat, Carlton P. 224,474-78.
- Pawsat, Carlton P., and Humlong. 223,072.
- Pawsat, Carlton P., and Humlong. 223,073.
- Pawsat, Carlton P., and Humlong. 223,074.
- Pawsat, Carlton P., and Humlong. 224,696.
- Pawsat, Carlton P., and Humlong. 224,697.
- Pawsat, Carlton P., and Humlong. 224,698.
- Pawsat, Carlton P., and Humlong. 224,699.
- Walderat, Jerry C., to Communications Components Corp. Antenna matching module or similar article. 223,610, 5-16-72, Cl. D26-14.
- Waldron, Gary B. Toy vehicle figure. 224,836, 9-26-72, Cl. D34-15.
- Walker, Laurence M.: *See*—
- Rogers, Robin. 225,115.
- Wallace, Frank C., and E. R. Livingston. Aerosol can handle. 224,391, 7-25-72, Cl. D9-291.
- Wallace, George M. Religious ornament. 224,412, 7-25-72, Cl. D29-23.
- Wallace, George M. Religious ornament. 225,164, 11-21-72, Cl. D29-23.
- Wallace-Murray Corp.: *See*—
- Ament, Myron J. 223,916.
- Ament, Myron J. 223,917.
- Wallace, Paul H. Water meter dial cover. 223,724, 5-30-72, Cl. D52-6.
- Wallace, Robert S. Tape cassette box. 224,177, 7-4-72, Cl. D87-1.
- Wallach, Mark. Clock or similar article. 223,169, 3-21-72, Cl. D42-7.
- Wallach, Ronald M., and E. Franzino. Cryosurgical instrument. 224,898, 10-3-72, Cl. D83-12.
- Waller, John G.: *See*—
- Pearl, David L., Waller, and Head. 224,518.
- Walter, Russell A., and J. C. Salsgiver. Thermometer. 224,148, 7-4-72, Cl. D52-7.
- Walz, David K., and R. C. Laerstrom to The Singer Co. Vacuum cleaner or similar article. 224,624, 8-15-72, Cl. D49-14.1.
- Watanabe, Rikl, to Kabushiki Kaisha Koparu. Digital alarm clock. 225,362, 12-5-72, Cl. D42-7.
- Ware, R. Louis. Plant-growth apparatus. 225,252, 11-28-72, Cl. D35-3.
- Wark, John D.: *See*—
- Dennerlein, William H., and Wark. 224,804.
- Lopez, Ulises M., Septimus, Holzwarth, and Wark. 224,070.
- Warnecke, Herbert. Container for oil or the like. 223,563, 5-9-72, Cl. D9-170.
- Warner, Douglas J., and A. Wolf, to Veriflo Corp. Automatic lung ventilator. 224,364, 7-18-72, Cl. D83-1.
- Warner-Lambert Co.: *See*—
- Glaberson, Martin. 224,480.
- Glaberson, Martin, and Gould. 224,600.
- Warren, Maurice A., to Vec/Trak Research & Development Corp. Radio direction finder. 224,022, 6-27-72, Cl. D26-14.
- Washington Scientific Industries, Inc.: *See*—
- Andres, William A., Becker, and Quanrud. 223,126.
- Andres, William A., Becker, and Quanrud. 223,127.
- Watanabe, Donald, and E. L. Dueter, to Herman Miller, Inc. Article support rack. 224,768, 9-19-72, Cl. D6-177.
- Watanabe, Rikl, to Kabushiki Kaisha Koparu. Calendar clock or similar article. 223,628, 5-16-72, Cl. D42-7.
- Watanabe, Rikl, to Kabushiki Kaisha Koparu. Calendar clock. 223,680, 5-23-72, Cl. D42-7.
- Watanabe, Shigeru, to Nippon Concrete Industries Co., Ltd. Concrete pile. 223,238, 4-4-72, Cl. D13-1.
- Watanabe, Shigeru, Y. Ishihara, and N. Kondo, to Nippon Concrete Industries Co., Ltd. Concrete pile. 223,236, 4-4-72, Cl. D13-1.
- Watanabe, Shigeru, and K. Nunokawa, to Nippon Concrete Industries Co., Ltd. Concrete pile. 223,237, 4-4-72, Cl. D13-1.
- Watanabe, Yasuhiko. Light bulb or the like. 225,535, 12-19-72, Cl. D26-8.
- Watel, James L.: *See*—
- Wittehoff, Harvey B., and Watel. 224,820.
- Waterloo, William C.: *See*—
- Gilkeson, Earl E., Waterloo, Kennedy, R. L. and R. E. 223,141.
- Waters, Charles H., to Baughman-Oster, Inc. Recreational shelter. 224,520, 8-1-72, Cl. D13-1.
- Waters, Margaret J. Buoyant infant seat. 225,183, 11-21-72, Cl. D71-1.
- Waters, Robert S.: *See*—
- Long, Douglas G., and Waters. 223,068.
- Watt, William D., Jr., to Keeler Brass Co. Drawer pull. 224,956, 10-24-72, Cl. D8-171.
- Watt, William D., Jr., to Keeler Brass Co. Simulated flush pull. 225,207, 1-28-72, Cl. D8-158.
- Watts Mfg. Co.: *See*—
- Woodruff, Melvin. 224,135.
- Weatherfields Ltd.: *See*—
- Edwards, Harry. 223,708.
- Edwards, Harry. 223,819.
- Weaver, George G.: *See*—
- Galang, Gerald J., Rienhardt, and Weaver. 224,740.
- Webb, Ronald C., and G. L. Lenz, to Canrad Precision Industries, Inc. Hand-held ultraviolet light unit for dental use. 224,312, 7-18-72, Cl. D24-1.
- Weber Corp., The: *See*—
- Weber, George H., and Collins. 225,180.
- Weber, George H., and R. Collins, to The Weber Corp. Portable piano. 225,180, 11-21-72, Cl. D56-9.
- Weckman, Richard L., to Owens-Illinois, Inc. Bottle. 223,084, 3-7-72, Cl. D9-116.
- Wedge House, Inc.: *See*—
- Volpe, Raymond R. 223,598.
- Weeber, Marion, to American Home Products Corp. Spoon or similar article. 224,937, 10-17-72, Cl. D54-12.
- Weeber, Marion, to American Home Products Corp. Spoon or similar article. 224,938, 10-17-72, Cl. D54-12.
- Weeber, Marion, to American Home Products Corp. Spoon or similar article. 224,939, 10-17-72, Cl. D54-12.
- Weeber, Marion, to American Home Products Corp. Spoon or similar article. 224,940, 10-17-72, Cl. D54-12.
- Weick, John A. Coffee table. 223,583, 5-9-72, Cl. D33-14.
- Weiderhold, Gary P. Sail boat. 223,687, 5-23-72, Cl. D71-1.
- Weidmann, Gerhard, to Greiner Electronic AG. Bottle or similar article. 225,100, 11-14-72, Cl. D9-18.
- Welland, Henry: *See*—
- La Barber, Joseph A. 223,734.
- Weinberg, Harold M., to Sonex, Inc. Stock quotation terminal. 225,014, 10-31-72, Cl. D26-5.
- Weinhold, Hannelore. Tire. 223,740, 5-30-72, Cl. D90-20.
- Weiss, Donald J. Patio room. 222,854, 1-18-72, Cl. D13-1.
- Weiss, Reinhold M., and T. M. Dennehey, to Memorex Corp. Combined magnetic tape and tape reel therefor. 222,910, 2-1-72, Cl. D26-14.
- Weiss, Reinhold M., and T. M. Dennehey, to Memorex Corp. Magnetic tape cassette. 222,911, 2-1-72, Cl. D26-14.
- Weiss, Reinhold M., and T. M. Dennehey, to Memorex Corp. Magnetic tape cassette. 223,029, 2-29-72, Cl. D26-14.
- Weiss, Reinhold M., and T. M. Dennehey, to Memorex Corp. Storage case for a magnetic tape cassette. 223,739, 5-30-72, Cl. D87-1.
- Weissman, Peter, to Consul Gesellschaft mit beschränkter Haftung. Pocket lighter. 223,721, 5-30-72, Cl. D48-27.
- Welch Allen, Inc.: *See*—
- Pilgrim, William. 225,584.
- Pulos, Arthur J. 222,925.
- Pulos, Arthur J. 225,691.
- Welding and Steel Fabrication Co., Inc.: *See*—
- Piezza, Henry J. 223,961.
- Wells, Bernard L.: *See*—
- Fell, Ferol S., Long, Wells, and Ten Eyck. 223,466.
- Wells, Robert G.: *See*—
- Clemenshaw, Douglas R., and Wells. 224,143.
- Wells, Willis L., to VueTech Corp. Combined rear projection viewer and clock. 223,728, 5-30-72, Cl. D61-1.
- Welsh, Arthur A. Tumbler holder. 225,363, 12-5-72, Cl. D44-10.
- Welsh-Co.: *See*—
- Benjamin, E. Burton. 225,224.
- Weltz, Nathan. Attache case. 224,609, 8-8-72, Cl. D87-5.
- Wennermo, Carl-Gerhard. Clock. 224,622, 8-15-72, Cl. D42-7.
- Wentz, Andrew J., Jr. Wall sconce. 223,951, 6-20-72, Cl. D48-92.
- Wenzler, Leopold A. Telephone key set conference caller. 224,714, 9-5-72, Cl. D26-14.
- Werle, Otto P.: *See*—
- Vuyovich, Mile, and Werle. 223,959.

- Werner, Walter M.: *See*—
- Hays, Kenneth S., and Werner. 224,561.
- West, William D.: *See*—
- McKinney, James C., and West. 224,732.
- Western Electric Co.: *See*—
- Genaro, Donald M., Holmes, and Seretny. 224,416.
- Western Gear Corp.: *See*—
- Hinman, Ronald C. 223,087.
- Westinghouse Air Brake Co.: *See*—
- Bechman, William H. 224,680.
- Westinghouse Electric Corp.: *See*—
- Breed, Charles P., Izzi, and Husby. 224,753.
- Chapin, Roger F., Jr. 222,834.
- Forsty, William A., Crookston, and Bertolino. 223,671.
- Gammans, David L., and Peterson. 225,377.
- Husby, Donald E., and Izzi. 222,810.
- Westlake, T. Walton. Three-dimensional game board. 225,241, 11-28-72, Cl. D34-5.
- Weston Instruments, Inc.: *See*—
- Andreagel, Joseph R., and Zenuch. 223,196.
- Westover, Ransom M. Orthodontic cabinet. 225,642, 12-26-72, Cl. D24-1.
- Wetzel, Guy N. Scraper tool. 224,603, 8-8-72, Cl. D49-23.
- Weyerhaeuser Co.: *See*—
- Selden, Robert W. 223,388.
- Selden, Robert W. 223,396-400.
- Selden, Robert W. 223,632.
- Selden, Robert W. 223,633.
- Selden, Robert W. 224,039.
- Selden, Robert W. 224,558.
- Weyll, Charles E., Jr. Book end. 222,887, 1-25-72, Cl. D33-3.
- Wheeler, Roger W., to Vaco Products Co. Tool holder. 225,272, 11-28-72, Cl. D55-1.
- Whelan, Mark: *See*—
- Cyr, Steve, and Whelan. 224,090.
- Cyr, Steve, and Whelan. 224,207.
- Cyr, Steven J., and Whelan. 224,206.
- Cyr, Steven J., and Whelan. 225,555.
- Cyr, Steven J., and Whelan. 225,556.
- Cyr, Steven J., Whelan, and Krause. 225,512.
- Whitaker, Wiley M. Combined refuse receptacle and article carrier for automobiles and the like. 223,681, 5-23-72, Cl. D49-932.
- White, Allen A., to Hesston Corp. Harvesting attachment for combines. 223,502, 4-25-72, Cl. D40-1.
- White, Iain K.: *See*—
- Mann, Peter G., and White. 223,246.
- White, James C.: *See*—
- Zeop, Kenneth H., White, and Jones. 222,850.
- White, Jerry G. Display holder tape cartridges, cassettes or the like. 224,498, 8-1-72, Cl. D6-189.
- White, Laura I. Ear ring holder. 223,313, 4-4-72, Cl. D86-10.
- White, Maurice Y., to P. R. Mallory & Co. Inc. Intrusion alarm device. 222,897, 1-25-72, Cl. D72-1.
- White, Robert A., to The Hamilton-Skotch Corp. Insulated picnic chest. 222,890, 1-25-72, Cl. D44-1.
- White, Winsor D., Jr.: *See*—
- Barker, Dennis, and White. 223,374.
- White, Winsor D., Jr., to D. H. Baldwin Co. Piano. 225,373, 12-5-72, Cl. D56-9.
- Whitehead, Jack D., to International Products, Inc. Hearth log. 224,535, 8-1-72, Cl. D23-167.
- Whitworth, William B. Money box. 223,940, 6-20-72, Cl. D34-11.
- Whyte, Andrew C.: *See*—
- Ulsnik, Harold D., and Whyte. 223,128.
- Wick, Mary I. Eyeglasses. 225,687, 12-26-72, Cl. D57-1.
- Wick, Mary I. Eyeglasses. 225,688, 12-26-72, Cl. D57-1.
- Wick, Mary I. Eyeglasses. 225,689, 12-26-72, Cl. D57-1.
- Widmer, Stanley W., to Graco Inc. Portable pumping unit. 223,039, 2-29-72, Cl. D65-1.
- Wiener, Edward R.: *See*—
- Bixler, Loring C., Davis, McCormick, and Wiener. 223,762.
- Bixler, Loring C., Davis, Lahey, McCormick, and Wiener. 224,605.
- Bixler, Loring C., Davis, Lahey, McCormick, and Wiener. 224,682.
- Wiener, Lloyd C. Rotatable planter. 223,677, 5-23-72, Cl. D35-3.
- Wiethop, Robert R., to Mead Johnson & Co. Vitamin tablet or similar article. 223,910, 6-20-72, Cl. D16-3.
- Wiethop, Robert R., to Mead Johnson & Co. Vitamin tablet or similar article. 223,911, 6-20-72, Cl. D16-3.
- Wiethop, Robert R., to Mead Johnson & Co. Vitamin tablet or similar article. 223,912, 6-20-72, Cl. D16-3.
- Wiethop, Robert R., to Mead Johnson & Co. Vitamin tablet or similar article. 224,103, 7-4-72, Cl. D16-3.
- Wiethop, Robert R., to Mead Johnson & Co. Vitamin tablet or similar article. 224,529, 8-1-72, Cl. D16-3.
- Wiethop, Robert R., to Mead Johnson & Co. Vitamin tablet or similar article. 224,653, 8-22-72, Cl. D16-3.
- Wiggins, William H. Cooking device. 224,063, 6-27-72, Cl. D81-10.
- Wiggins, William H. Tray and table combination. 224,324, 7-18-72, Cl. D33-14.
- Wigwam Mills, Inc.: *See*—
- Sindelar, Raymond R. 225,490.
- Wilbrecht, Margaret A. Holder for sewing material or the like. 223,224, 4-4-72, Cl. D3-19.
- Wild Rover Corp.: *See*—
- Adelson, Alexander M. 223,924.
- Wiley, Robert L., to SI Lite Inc. Freezer storage tray for comestibles or the like. 224,928, 10-17-72, Cl. D9-187.
- Wilfert, Karl, and F. Gelger, to Daimler-Benz Aktiengesellschaft. Automobile. 222,879, 1-25-72, Cl. D14-3.
- Wilkinson, Judkins E., and C. R. Smith, Atlanta Stove Works, Inc. Portable outdoor cooker. 223,042, 2-29-72, Cl. D81-10.
- Wilkinson Sword Ltd.: *See*—
- Cole, Eric L. 222,934-8.
- Cole, Eric L. 225,527.
- Williams, Allen R., Jr., to Sanders Associates, Inc. Keyboard operated display console. 224,321, 7-18-72, Cl. D26-5.
- Williams, Donald E., to Acra-Plant, Inc. Speed placement tube for agricultural planters. 224,745, 9-12-72, Cl. D35-2.
- Williams, Frank, (Racing Cars) Ltd.: *See*—
- Dallara, Gianpaolo. 222,918.
- Williams, John M., to LaBarge, Inc. Electronic metronome. 225,361, 12-5-72, Cl. D42-7.
- Williams, Michael D.: *See*—
- McKee, Robert S., and Williams. 224,649.
- Williams, Richard R. Lawn sprinkler. 225,400, 12-12-72, Cl. D23-7.
- Willinger, Allan H., to Metaframe Corp. Holder for an artificial aquarium plant. 224,031, 6-27-72, Cl. D35-3.
- Willinger, Allan H., to Metaframe Corp. Aquarium aerator. 224,238, 7-11-72, Cl. D30-12.
- Willis, Sheldon. Pin. 224,086, 7-4-72, Cl. D8-266.
- Willner, Robert. Finger ring. 224,555, 8-1-72, Cl. D45-10.
- Willoughby, Connie C., to Cannon Mills Co. Towel or similar article. 223,319, 4-4-72, Cl. D92-26.
- Willoughby, Connie C., to Cannon Mills Co. Towel or similar article. 223,530, 4-25-72, Cl. D92-26.
- Willoughby, Connie C., to Cannon Mills Co. Towel or similar article. 224,501, 8-1-72, Cl. D6-265.
- Willoughby, Connie C., to Cannon Mills Co. Towel or similar article. 224,502, 8-1-72, Cl. D6-265.
- Wills, Franklin M., to Burwood Products Co. Clock or similar article. 223,629, 5-16-72, Cl. D42-7.
- Wilson, Allen R.: *See*—
- McKissick, Lance R., and Wilson. 223,317.
- Wilson, Benjamin L. Water speed indicator for a trolling boat. 223,129, 8-14-72, Cl. D71-1.
- Wilson & Cousins Co. Ltd.: *See*—
- Campbell, Duncan H. 223,156.
- Wilson, Douglas L.: *See*—
- Barkert, Dean W., and Wilson. 225,676.
- Wilson-Haffenden, Philip A., to W. W. Haffenden Ltd. Bathing cap. 224,385, 7-25-72, Cl. D2-237.
- Wilson-Haffenden, Philip A., to W. W. Haffenden Ltd. Bathing cap. 224,386, 7-25-72, Cl. D2-237.
- Wilson, James B., to Vice of the Flower, Ltd. Thumb piano. 222,813, 1-4-72, Cl. D56-1.
- Wilson, Robert A.: *See*—
- Dumm, Irving, III, and Wilson. 224,342.
- Wilson, Robert G. Self-service food warmer. 223,417, 4-11-72, Cl. D81-10.
- Wilson, Robert L., to Chromcraft Corp. Sofa. 224,951, 10-24-72, Cl. D6-63.
- Wilson, Robert L., to Chromcraft Corp. Chair. 224,952, 10-24-72, Cl. D6-75.
- Wilson, Robert W. Retaining strap for electrical cables. 224,960, 10-24-72, Cl. D9-252.
- Wilson Sporting Goods Co.: *See*—
- Bates, Richard E. 225,044.
- Wilson, William H., to Rebel Boat Co., Inc. Boat. 224,362, 7-18-72, Cl. D71-1.
- Wiltshire Cutlery Co. Proprietary Ltd.: *See*—
- Bayly, Peter K. 225,559.
- Winans, Mary J., to Interpace Corp. Goblets. 223,168, 3-21-72, Cl. D36-8.
- Winfrey, James E., and W. H. Orr, to Square D Co. Voltage tester casing. 224,596, 8-8-72, Cl. D26-1.
- Wing, George S., to Hi-Shear Corp. Nut. 223,187, 3-28-72, Cl. D8-273.
- Winger Enterprises, Inc.: *See*—
- Winger, Joseph A. 224,935.
- Winger, Joseph A., to Winger Enterprises, Inc. Exerciser. 224,935, 10-17-72, Cl. D34-5.
- Winrow, Thomas, to Futorian Corp. Chair. 224,862, 10-3-72, Cl. D6-73.
- Winrow, Thomas, to Futorian Corp. Commode. 224,869, 10-3-72, Cl. D6-149.
- Winrow, Thomas, to Futorian Corp. Commode. 224,871, 10-3-72, Cl. D6-165.
- Winrow, Thomas, to Mohasco Industries, Inc. Armchair. 224,889, 10-3-72, Cl. D15-1.
- Winrow, Thomas, to Futorian Corp. Chair. 225,142, 11-21-72, Cl. D6-31.
- Winrow, Thomas, to Futorian Corp. Loveseat. 225,145, 11-21-72, Cl. D6-63.
- Winrow, Thomas, to Futorian Corp. Table. 225,602, 12-26-72, Cl. D6-179.
- Wire World, Inc.: *See*—
- Shaw, George. 224,613.
- Shaw, George. 224,614.
- Wirecraft Mfg. Co.: *See*—
- Hildebrand, Oliver W. 224,027.
- Wise, Daniel, Healthwear Underwear, Inc. Purse for attachment to a bra. 224,078, 7-4-72, Cl. D2-400.

- Wise, Marcus S. Canopled table and chairs. 222,806, 1-4-72, Cl. D33-14.
- Witcoff, Harvey B. and J. L. Watel, to Wonder Maid, Inc. Slip. 224,820, 9-24-72, Cl. D2-19.
- Witte, Ursulina : *See*—
Schuler, Ralf, and Witte. 224,929.
Schuler, Ralf, and Witte. 224,930.
Schuler, Ralf, and Witte. 224,932.
- Witton-James Ltd. : *See*—
Baker, Noel J. 225,278.
- Woempner, David W. : *See*—
Smart, William L., and Woempner. 223,491.
- Wojcik, Gerald E. : *See*—
Mansur, Fred E., Lohmann, Wojcik, and Martel. 224,111.
Schmersal, Larry J., and Wojcik. 224,231.
- Wojcik, Gerald E. Light emitting gas discharge matrix display panel. 222,884, 1-25-72, Cl. D26-5.
- Wolf, Arnold : *See*—
Warner, Douglas J., and Wolf. 224,364.
- Wolf, Milton. Portable game board. 223,265, 4-4-72, Cl. D34-5.
- Wolfe, E. David. Storage cabinet. 224,493, 8-1-72, Cl. D6-170.
- Wolfe, Hunter. Guitar. 223,290, 4-4-72, Cl. D56-1.
- Wolfe, Norbert T. : *See*—
Hill, Lyman L., Jr., Odom, and Wolfe. 224,047.
- Wolff, Martin J., to Sperry Rand Corp. Boot and shoe dryer. 224,309, 7-18-72, Cl. D23-77.
- Wolff, Norman C., Jr. : *See*—
Einstein, Alfred C., Wolff, and Moran. 225,240.
- Wonder Maid, Inc. : *See*—
Witcoff, Harvey B., and Watel. 224,820.
- Wonkie International Inc. : *See*—
Reynolds, Alan S. 222,914.
- Wood, Barry B. Folding knife. 224,388, 7-25-72, Cl. D8-99.
- Wood, Barry B. Folding knife. 224,389, 7-25-72, Cl. D8-99.
- Wood, Jackie D. : *See*—
Waddle, Thirl W., Wood, and Jackson. 224,242.
- Wood, Larry R. : *See*—
Bosley, Denis V., and Wood. 224,659.
- Wood, Richard D., to Optical Radiation Corp. Housing for aircraft search light. 224,437, 7-25-72, Cl. D48-32.
- Woodard, Kenneth B. : *See*—
Gibson, Richard D., McGarvey, and Woodard. 222,990.
- Woodbury, Luther A. Fishing rod holder. 222,964, 2-15-72, Cl. D22-22.
- Woodling, Peter H. : *See*—
Binzer, Thomas J., Schmitt, and Woodling. 223,641.
- Woodring, Cooper C. : *See*—
Lauer, Donald G., Woodring, and Rinaldi. 224,308.
- Woodruff, Melvin, to Watts Mfg. Co. Covered bowl. 224,135, 7-4-72, Cl. D44-15.
- Woodruff, William E. Eyeglass frame front. 223,053, 3-7-72, Cl. D57-1.
- Woods, David, to G. J. Furniture Co., Inc. File rack. 223,616, 5-16-72, Cl. D33-3.
- Woolley, Edward R. : *See*—
Viera, Anthony A., Woolley, and Jepson. 225,123.
- Wormser, Robert S., to Game Time, Inc. Shelter. 224,213, 7-11-72, Cl. D13-1.
- Wormser, Robert S., to Game Time, Inc. Camping shelter. 224,214, 7-11-72, Cl. D13-1.
- Wormser, Robert S., to Game Time, Inc. Comfort station shelter or similar article. 224,293, 7-18-72, Cl. D13-1.
- Wortman, Jean L. Sunbathing device. 223,971, 6-20-72, Cl. D83-1.
- Woznicki, Elizabeth : *See*—
Mont, Howard I., and Woznicki. 223,515.
- Wright, Allen C., to Haws Drinking Fountain Co. Cylindrical drinking fountain. 223,781, 6-6-72, Cl. D67-4.
- Wright, Allen C., to Haws Drinking Fountain Co. Polygonal drinking fountain. 223,782, 6-6-72, Cl. D67-4.
- Wright, Earl R. Bootjack. 224,460, 7-25-72, Cl. D86-10.
- Wright, James D. : *See*—
Michlap, Dewitt A., and Wright. 224,685.
Michlap, Dewitt A., and Wright. 224,686.
- Wright, Jesse F., and B. W. Berdine, to Poudre Plastics, Inc. Boot insert. 223,221, 3-28-72, Cl. D86-10.
- Wright, Kent M., to The Gillette Co. Combined bottle and cap therefor. 224,701, 9-5-72, Cl. D9-71.
- Wyman, Dennis G., and M. C. Averitt, to Granta Corp. Dart board. 225,420, 12-12-72, Cl. D34-5.
- Wyse, David S. Holder for lipstick containers. 225,478, 12-12-72, Cl. D86-10.
- Xerox Corp. : *See*—
Derby, Dan R., Knodt, and Korn. 224,054.
Harrison, Larry. 225,643.
Harrison, Larry. 225,681.
Harrison, Larry D., and Kalvitis. 224,025.
Kalvitis, Robert E., and Van Valkinburg. 224,019.
Knodt, Ruediger W., and Korn. 225,572.
Zinni, John F. 224,754.
- Xomox Corp. : *See*—
Geraci, James L. 224,672.
Smith, Russell G. 223,828.
Smith, Russell G. 224,304.
- Yacoboni, Joseph. House. 225,217, 11-28-72, Cl. D13-1.
- Yaida, Koichi : *See*—
Yamamoto, Mititaka, Yaida, and Maeda. 224,273.
- Yamamoto, Mititaka, K. Yaida, and H. Maeda, to Omron Tateisi Electronics Co. Calculating machine. 224,273, 7-11-72, Cl. D64-11.
- Yamamoto, Susumu : *See*—
Saito, Hiroshi, Horikoshi, Nakajima, and Yamamoto. 223,216.
- Yamamoto, Yasuaki, to Janome Sewing Machine Co., Ltd. Sewing machine. 223,866, 6-13-72, Cl. D70-1.
- Yamamoto, Yasuaki, to Janome Sewing Machine Co., Ltd. Food mixer. 224,132, 7-4-72, Cl. D44-1.
- Yamamoto, Yasuaki, to Janome Sewing Machine Co., Ltd. Sewing machine. 224,574, 8-1-72, Cl. D70-1.
- Yamamoto, Yasuaki, to Janome Sewing Machine Co., Ltd. Printing machine. 225,182, 11-21-72, Cl. D64-11.
- Yamamoto, Yasuaki, to Janome Sewing Machine Co., Ltd. Printing machine. 225,376, 12-5-72, Cl. D64-11.
- Yarkoni, Fred E. : *See*—
Chernow, Michael, and Yarkoni. 225,192.
- Yasuo, Kodaira, to Nihon Kaihiki Kogyo Kabushiki Kaisha. Switch. 223,763, 6-6-72, Cl. D26-13.
- Yates, George Jr., to Growth International Industries Corp. Combined bucket and closure therefor. 222,981, 2-15-72, Cl. D49-29.
- Yates, James M. Vehicular tank for fuel or the like. 223,022, 2-29-72, Cl. D14-3.
- Yazawa, Hiroaki, and Y. Iida, to Matsushita Electric Industrial Co., Ltd. Amplifier. 225,412, 12-12-72, Cl. D26-14.
- Yellin, Elliott. Combined nail polish container and finger rest. 223,044, 2-29-72, Cl. D86-10.
- Yeoh, Allan, to Louis Marx and Co. Inc. Toy vehicle. 225,168, 11-21-72, Cl. D34-15.
- Yeomans, Ralph F. Audio frequency equalizer. 225,112, 11-14-72, Cl. D26-14.
- Yoker Mfg. Inc. : *See*—
Long, Morris A. 223,812.
- Yoshinaga Prince Co., Ltd. : *See*—
Yoshinaga, Sadao. 223,284.
Yoshinaga, Sadao. 223,285.
Yoshinaga, Sadao. 223,591.
- Yoshinaga, Sadao, to Yoshinaga Prince Co., Ltd. Cigarette lighter. 223,284, 4-4-72, Cl. D48-27.
- Yoshinaga, Sadao, to Yoshinaga Prince Co., Ltd. Cigarette lighter. 223,285, 4-4-72, Cl. D48-27.
- Yoshinaga, Sadao, to Yoshinaga Prince Co., Ltd. Cigarette lighter or similar article. 223,591, 5-9-72, Cl. D48-27.
- Yoshioka, Eichi : *See*—
Matsuda, Mutsuhiko, and Yoshioka. 222,845.
- Yotsukura, Masakatus, to Citizen Watch Co., Ltd. Typewriter. 224,571, 8-1-72, Cl. D64-11.
- Yotsukura, Teruo : *See*—
Onozaki, Noboru, Hurokawa, and Yotsukura. 224,056.
- Young, Arthur W., to Curtis-Young Corp. Carbon paper. 224,843, 9-26-72, Cl. D59-6.
- Young, James V. : *See*—
Gale, John A., Young, and Menke. 224,029.
- Young, Raymond W., to American Standard Inc. Combined wall unit and seat for a bathtub or the like. 223,195, 3-28-72, Cl. D23-69.
- Young, Raymond W., to American Standard Inc. Combined wall unit, soap holder and tray for a bathtub or the like. 223,576, 5-9-72, Cl. D23-69.
- Young, W. Terry : *See*—
Hancock, Glen C., and Young. 224,171.
- Young, Wilmer T. : *See*—
Hancock, Glen C., and Young. 223,660.
- Yran, Knut O., to United States Philips Corp. Combined dry shaver and hair clipper. 225,487, 12-12-72, Cl. D95-3.
- Yuangger, Arthur F. Chair. 224,612, 8-15-72, Cl. D6-69.
- Yuen Sang Hardware Co., Ltd. : *See*—
Poon, Yuen S. 224,981.
Poon, Yuen S. 225,256.
- Yuenger, Arthur F. Chair. 224,635, 8-22-72, Cl. D6-56.
- Yum-Yum Barns, Inc. : *See*—
Cox, Gerald B. 224,736.
- Yurdin, Carl : *See*—
Levow, Lawrence, and Yurdin. 222,883.
- Yurdin, Carl, to Harman-Kardon, Inc. Combined radio-phonograph and tape player or similar article. 224,157, 7-4-72, Cl. D56-4.
- Yurdin, Carl, to Harman-Kardon, Inc. Phonograph. 224,158, 7-4-72, Cl. D56-4.
- Yurdin, Carl, to Harman-Kardon, Inc. Phonograph. 224,262, 7-11-72, Cl. D56-4.
- Yurdin, Carl, to Harman-Kardon, Inc. Combined radio-phonograph and tape player or similar article. 224,263, 7-11-72, Cl. D56-4.
- Yutzler, Lee G. Water vehicle. 225,465, 12-12-72, Cl. D71-1.
- Zakarin, Melvin. Sash. 225,094, 11-14-72, Cl. D2-385.
- Zakarin, Melvin. Belt. 225,095, 11-14-72, Cl. D2-385.
- Zakarin, Melvin V. Sash. 223,079, 3-7-72, Cl. D2-385.
- Zakarin, Melvin V. Sash. 223,650, 5-23-72, Cl. D2-385.
- Zakarin, Melvin V. Buckle. 223,985, 6-27-72, Cl. D2-427.
- Zakarin, Melvin V. Sash. 224,186, 7-11-72, Cl. D2-385.
- Zakarin, Melvin V. Belt. 225,043, 11-7-72, Cl. D2-385.
- Zakarin, Melvin V. Head band. 225,131, 11-14-72, Cl. D86-10.
- Zampetti, Patrick, and R. Deuchler. Grille. 222,843, 1-11-72, Cl. D54-2.
- Zampetti, Patrick, and R. Deuchler, to Construction Specialties, Inc. Grille. 222,895, 1-25-72, Cl. D54-2.
- Zampetti, Patrick L., to Construction Specialties, Inc. Decorative facing. 222,812, 1-4-72, Cl. D54-2.
- Zampetti, Patrick, and R. Deuchler, to Construction Specialties, Inc. Grille. 225,269, 11-28-72, Cl. D54-2.
- Zampetti, Patrick L., to Construction Specialties, Inc. Decorative grille. 223,777, 6-6-72, Cl. D54-2.

- Zbikowski, Theodore H., and L. J. Pfeilsticker, to Tonka Corp. Toy truck cement mixer body. 223,944, 6-20-72, Cl. D34-15.
- Zecca, Giuseppe. Cover plates for boxes for compartments containing electric devices. 223,253, 4-4-72, Cl. D26-13.
- Zeitler, Bruce : *See*—
Brodsky, Louis, and Zeitler. 224,260.
- Zelenko, Harry : *See*—
Sayre, Van Vechten, Kirkpatrick, and Zelenko. 224,998.
- Zelenko, Harry. Rotatable playing board for table game or similar article. 225,421, 12-12-72, Cl. D34-5.
- Zellick, Harry, L. H. and P. Chair. 224,652, 8-22-72, Cl. D15-1.
- Zellick, Louis H. : *See*—
Zellick, Harry, L. H. and P. 224,652.
- Zellick, Philip : *See*—
Zellick, Harry, L. H. and P. 224,652.
- Zenith Mfg. Co. : *See*—
Bumch, Robert E. 225,610.
- Zenith Radio Corp. : *See*—
Boidt, Melvin H., and Chuboff. 223,255.
Schmidt, Arthur W. 223,835.
- Zenuch, George : *See*—
Andreaggi, Joseph R., and Zenuch. 223,196.
- Zerbi, Giorgio : *See*—
Martini, Alfredo, and Zerbi. 224,873.
- Zierhut, Clarence D. : *See*—
Shimano, Moto, Zierhut, and Ishimaru. 223,362.
Shimano, Moto, Zierhut, and Ishimaru. 223,429.
- Zierhut, Clarence D. Combined typewriter, recording device and enclosure therefor. 223,731, 5-30-72, Cl. D64-11.
- Zimmerman, Charles R. : *See*—
Frederick, Phyllis, Sims, and Zimmerman. 224,546.
- Zimmerman, Charles R., and R. Tuccio, to Mattel, Inc. Combined display and storage case. 223,085, 3-7-72, Cl. D9-221.
- Zimmermann, Hubert : *See*—
Krusche, Kurt, and Zimmermann. 223,597.
- Zinnbauer, Gerald B. : *See*—
Hayes, Thomas H., and Zinnbauer. 223,334.
- Zinni, John F., to Xerox Corp. Xerographic label making machine. 224,754, 9-12-72, Cl. D61-1.
- Zipp, David S. Front panel for vending machine. 225,176, 11-21-72, Cl. D52-3.
- Zippel, Deborah A. : *See*—
Levine, Linda E., and Zippel. 224,993.
Levine, Linda E., and Zippel. 225,392.
- Zottola, Robert F. Storage container for cassettes or the like. 225,479, 12-12-72, Cl. D87-1.
- Zougas, Petros, assignor of a fractional part interest to Sakratis Romas. Scissors with force multipliers. 225,099, 11-14-72, Cl. D8-61.
- Zuck, Earl D., to Ametek, Inc. Pressure gauge. 224,806, 9-19-72, Cl. D52-6.
- Zundel, Arthur P., to National Can Corp. Can or the like. 223,899, 6-20-72, Cl. D9-218.
- Zura, John A. Overhead room decoration panel. 224,521, 8-1-72, Cl. D13-1.
- Zylbert, Thaddeus J., to The Singer Co. Top cover for a sewing machine or similar article. 223,061, 3-7-72, Cl. D70-2.

1972

LIST OF PLANT PATENTEEES

- Anderson, Frederic W., to Arthur Bright, Almond tree. 3,125, 4-18-72, Cl. 30.
 Anderson, Frederic W., to Arthur Bright, Almond tree. 3,130, 4-25-72, Cl. 30.
 Anderson, Frederic W., to Flower Nurseries, Inc. Cherry tree. 3,157, 9-5-72, Cl. 37.
 Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 3,165, 5-9-72, Cl. 41.
 Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 3,202, 5-30-72, Cl. 41.
 Anderson, Frederic W., to Arthur Bright, Almond tree. 3,242, 7-25-72, Cl. 30.
 Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 3,075, 10-19-71, Cl. 20.
 Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 3,076, 10-19-71, Cl. 2.
 Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 3,077, 10-19-71, Cl. 18.
 Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 3,102, 4-11-72, Cl. 25.
 Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 3,128, 4-25-72, Cl. 11.
 Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 3,131, 4-25-72, Cl. 11.
 Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 3,132, 4-25-72, Cl. 20.
 Armstrong Nurseries, Inc.: See—
 Armstrong, David L. 3,075.
 Armstrong, David L. 3,076.
 Armstrong, David L. 3,077.
 Armstrong, David L. 3,102.
 Armstrong, David L. 3,128.
 Armstrong, David L. 3,131.
 Armstrong, David L. 3,132.
 McGredy, Samuel, IV. 3,111.
 Asper, J. Howard, to Monrovia Nursery Co. Camellia hybrid. 3,170, 5-16-72, Cl. 62.
 Bailey, Catherine: See—
 Dayton, Daniel F., Mowry, Hough, Bailey, Williams, Janick, Shay, and Emerson. 3,134.
 Ball, Geo. J., Inc.: See—
 Klupenger, Joseph H. 3,086.
 Roberts, Alfred N. 3,093.
 Sweet, Jack S. 3,094.
 Yuge, Takeo. 3,155.
 Bandoni, Guldo: See—
 Muratore, Giacomo. 3,141.
 Barenbrug, Josephur J., and C. W. H. M. Schaepman, to Barenbrug's Zaadhandel N.V. Bluegrass plant. 3,186, 5-23-72, Cl. 88.
 Barenbrug's Zaadhandel N.V.: See—
 Barenbrug, Josephur J., and Schaepman. 3,186.
 Baron, Milton, to J. Frank Schmidt and Son, Co. Mountain ash tree. 3,114, 4-18-72, Cl. 51.
 Bearss, John R., to Wight Nurseries, Inc. Ilex plant. 3,187, 5-23-72, Cl. 65.
 Boerner, Eugene S., deceased, by Lincoln Rochester Trust Co., and R. L. Boerner, executors, to Jackson & Perkins Co. Rose plant. 3,118, 4-18-72, Cl. 22.
 Boerner, Roger L.: See—
 Boerner, Eugene S. 3,118.
 Bountiful Ridge Nurseries, Inc.: See—
 Wilson, William J. and E. C. 3,110.
 Bright, Arthur: See—
 Anderson, Frederic W. 3,125.
 Anderson, Frederic W. 3,130.
 Anderson, Frederic W. 3,242.
 Bringham, Royce S., and V. Voth, to The Regents of the University of California. Strawberry plant. 3,178, 5-16-72, Cl. 48.
 Burlingham, E. F., and Sons: See—
 Pepin, Gerard W., and Funk. 3,239.
 Byrum, Roy L., to Joseph H. Hill Co. Rose plant. 3,126, 4-18-72, Cl. 18.
 Byrum, Roy L., to Joseph H. Hill Co. Rose plant. 3,272, 12-19-72, Cl. 15.
 Cerro Gordo Nursery, Inc.: See—
 Pennock, Charles F. 3,219.
 Cobia, B. L., Inc.: See—
 Cobia, Barnell L. 3,105.
 Cobia, Barnell L., to B. L. Cobia, Inc. Hoya carnosia rubra. 3,105, 4-11-72, Cl. 88.
 Cole Nursery Co., Inc.: See—
 Collins, William H. 3,267.
 Collins, William H., to Cole Nursery Co., Inc. Flowering crab-apple tree. 3,267, 12-12-72, Cl. 34.
 Conard-Pyle Co., The: See—
 Melland, Marie-Louise. 3,095.
 Meyer, Carl. 3,097.
 Swim, Herbert C., and Weeks. 3,163.
 Cooke, L. E. Co.: See—
 Hill, Willard C. 3,067.
 Costich, Peter E., to Tresearch. Dogwood tree. 3,090, 3-28-72, Cl. 51.
 Curris, Eldon C., to E. V. Kimbrow. Rose plant. 3,115, 4-18-72, Cl. 18.
 Daniel, William H., to Purdue Research Foundation. Kentucky bluegrass (*Poa pratensis*). 3,135, 4-25-72, Cl. 88.
 Daniel, William H., to Purdue Research Foundation. Kentucky bluegrass (*Poa pratensis*). 3,175, 5-16-72, Cl. 88.
 Daniel, William H., to Purdue Research Foundation. Kentucky bluegrass (*Poa pratensis*). 3,176, 5-16-72, Cl. 88.
 Daniel, William H., to Purdue Research Foundation. Kentucky bluegrass (*Poa pratensis*). 3,177, 5-16-72, Cl. 88.
 Danielson, Robert E., to Pan-American Plant Co. Chrysanthemum morifolium. 3,280, 12-26-72, Cl. 78.
 Dayton, Daniel F., J. B. Mowry, L. F. Hough, C. Bailey, E. B. Williams, J. Janick, J. R. Shay, and F. H. Emerson, to Purdue Research Foundation. Apple tree. 3,134, 4-25-72, Cl. 34.
 Devor Nurseries, Inc.: See—
 Lammerts, Walter E. 3,203.
 Driscoll Strawberry Associates, Inc.: See—
 Johnson, Harold A., Jr. 3,274.
 Johnson, Harold A., Jr. 3,275.
 Johnson, Harold R., Jr., and Thomas. 3,123.
 Duffett, William E.: See—
 Harcharik, Thomas G., and Duffett. 3,252.
 Jessel, Walter H., Jr., and Duffett. 3,183.
 Jessel, Walter H., Jr., and Duffett. 3,184.
 Jessel, Walter H., Jr., and Duffett. 3,185.
 Jessel, Walter H., Jr., and Duffett. 3,189.
 Jessel, Walter H., Jr., and Duffett. 3,191.
 Jessel, Walter H., Jr., and Duffett. 3,212-16.
 Jessel, Walter H., Jr., and Duffett. 3,220.
 Jessel, Walter H., Jr., and Duffett. 3,221.
 Jessel, Walter H., Jr., and Duffett. 3,231.
 Jessel, Walter H., Jr., and Duffett. 3,232.
 Jessel, Walter H., Jr., and Duffett. 3,233.
 Jessel, Walter H., Jr., and Duffett. 3,236.
 Jessel, Walter H., Jr., and Duffett. 3,248.
 Jessel, Walter H., Jr., and Duffett. 3,250.
 Jessel, Walter H., Jr., and Duffett. 3,254.
 Jessel, Walter H., Jr., and Duffett. 3,255.
 Jessel, Walter H., Jr., and Duffett. 3,256.
 Jessel, Walter H., Jr., and Duffett. 3,257.
 Jessel, Walter H., Jr., and Duffett. 3,262.
 Jessel, Walter H., Jr., and Duffett. 3,363.
 Jessel, Walter H., Jr., and Duffett. 3,279.
 Knicely, Walter W., and Duffett. 3,171.
 Knicely, Walter W., and Duffett. 3,173.
 Knicely, Walter W., and Duffett. 3,174.
 Lee, Sing L., Jessel, and Duffett. 3,249.
 Mack, Grace H., Jessel, and Duffett. 3,276.
 Mack, Grace H., Jessel, and Duffett. 3,277.
 Mack, Grace H., Jessel, and Duffett. 3,278.
 Ecke, Paul, to Paul Ecke, Inc. Poinsettia plant. 3,119, 4-18-72, Cl. 86.
 Ecke, Paul, to Paul Ecke, Inc. Poinsettia plant. 3,120, 4-18-72, Cl. 86.
 Ecke, Paul, to Paul Ecke, Inc. Poinsettia plant. 3,160, 5-9-72, Cl. 86.
 Ecke, Paul, to Paul Ecke, Inc. Poinsettia plant. 3,196, 5-23-72, Cl. 86.
 Ecke, Paul, Inc.: See—
 Ecke, Paul. 3,119.
 Ecke, Paul. 3,120.
 Ecke, Paul. 3,160.
 Ecke, Paul. 3,196.
 Hegg, Thormod. 3,082.
 Hegg, Thormod. 3,099.
 Emerson, Frank H.: See—
 Dayton, Daniel F., Mowry, Hough, Bailey, Williams, Janick, Shay, and Emerson. 3,134.
 Enns, John H. Nectarine tree. 3,145, 5-2-72, Cl. 41.
 Fischer, Carl H., to Selected Glads, Inc. Gladiolus plant. 3,079, 10-19-71, Cl. 85.
 Flemer, William, III: See—
 Flemer, William J., and W. Flemer III. 3,108.
 Flemer, William, III, to Tresearch. Shadblow tree. 3,092, 4-4-72, Cl. 51.
 Flemer, William J., and W. Flemer III, to Tresearch. Elm tree. 3,103, 4-11-72, Cl. 61.

Fowler Nurseries, Inc.: See—
Anderson, Frederic W. 3,157.
Friesen, Nikolai J. Peach tree. 3,273, 12-19-72, Cl. 43.
Fuchigami, Torao T., and E. W. Mayer, to The O. M. Scott & Sons Co. *Poa pratensis*. 3,156, 5-9-72, Cl. 88.
Funk, Cyril R., Jr.: See—
McVeigh, Kevin J., and Funk. 3,223.
Pepin, Gerard W., and Funk. 3,150.
Pepin, Gerard W., and Funk. 3,152.
Pepin, Gerard W., and Funk. 3,239.
Funk, Cyril R., Jr., to Rutgers University. New and distinct variety of bluegrass plant. 3,151, 5-2-72, Cl. 88.
Garabedian, John M. Grapevine. 3,106, 4-11-72, Cl. 47.
Garabedian, John M. Grapevine. 3,124, 4-18-72, Cl. 47.
Garabedian, John M. Nectarine tree. 3,133, 4-25-72, Cl. 41.
Garabedian, John M. Plum tree. 3,154, 5-9-72, Cl. 38.
Garabedian, John M. Plum tree. 3,164, 5-9-72, Cl. 38.
Germann's Inc.: See—
Lammerts, Walter E. 3,129.
Lammerts, Walter E. 3,162.
Gruis, Jake T., E. W. Mayer, and J. A. Long, to O. M. Scott & Sons Co. EA 673—St. Augustinegrass. 3,180, 5-16-72, Cl. 88.
Halka, Chester J., to Frank J. Schmidt & Son Co. Honeylocust tree. 3,096, 4-4-72, Cl. 52.
Hancock, M. Leslie, to Monrovia Nursery Co. *Euonymus fortunei* shrub. 3,211, 6-20-72, Cl. 63.
Harcharik, Thomas G., and W. E. Duffett, to Yoder Brothers, Inc. Carnation plant. 3,252, 8-8-72, Cl. 70.
Hartmann, Hudson T., to The Regents of the University of California. Fruitless olive tree. 3,197, 5-30-72, Cl. 33.
Hegg, Thornd, to Paul Ecke, Inc. Poinsettia plant. 3,082, 3-28-72, Cl. 86.
Hegg, Thornd, to Paul Ecke, Inc. Poinsettia plant. 3,099, 4-1-72, Cl. 86.
Hemet Wholesale: See—
Lindquist, Robert V. 3,063.
Lindquist, Robert V. 3,069.
Henson, Stuart E., to Yoder Brothers, Inc. Azalea plant. 3,247, 8-1-72, Cl. 56.
Hensz, Richard A., to Texas A&I University. Grapefruit tree. 3,222, 6-27-72, Cl. 45.
Hill, E. G. Co., Inc.: See—
Jelly, Robert G. 3,166.
Jelly, Robert G. 3,167.
Hill, Joseph H., Co.: See—
Byrum, Roy L. 3,126.
Byrum, Roy L. 3,272.
Hill Top Orchards & Nurseries, Inc.: See—
Miller, Henry W., Jr. 3,198.
Hill, Willard C., to L. E. Cooke Co. Apricot tree. 3,067, 10-5-71, Cl. 39.
Hines Wholesale Nurseries: See—
Serpa, Frank J. 3,140.
Holm, Josef, to Mikkelsen's Inc. Poinsettia plant. 3,122, 4-18-72, Cl. 86.
Holtkamp, Hermann. African violet. 3,146, 5-2-72, Cl. 69.
Holtkamp, Hermann. African violet. 3,147, 5-2-72, Cl. 69.
Holtkamp, Hermann. African violet. 3,148, 5-2-72, Cl. 69.
Holtkamp, Hermann. African violet. 3,205, 6-13-72, Cl. 69.
Holtkamp, Hermann. African violet. 3,206, 6-13-72, Cl. 69.
Holtkamp, Hermann. African violet. 3,207, 6-13-72, Cl. 69.
Holtkamp, Hermann. African violet. 3,208, 6-13-72, Cl. 69.
Holtkamp, Hermann. African violet. 3,209, 6-13-72, Cl. 69.
Holtkamp, Hermann. African violet. 3,210, 6-13-72, Cl. 69.
Holtkamp, Hermann. African violet. 3,241, 7-25-72, Cl. 69.
Honeycutt, William T. Walnut tree. 3,200, 5-30-72, Cl. 32.
Hough, L. Frederick: See—
Dayton, Daniel F., Mowry, Hough, Bailey, Williams, Janick, Shay, and Emerson. 3,134.
Howard Rose Co.: See—
McGredy, Samuel D. 3,226.
Irwin Greenhouses, Inc.: See—
Irwin, James T. 3,149.
Irwin, James T. 3,204.
Irwin, James T., to Irwin Greenhouses, Inc. Kalanchoe plant. 3,149, 5-2-72, Cl. 68.
Irwin, James T., to Irwin Greenhouses, Inc. Kalanchoe plant. 3,204, 5-30-72, Cl. 68.
Jackson & Perkins Co.: See—
Boerner, Eugene S. 3,118.
Kordes, Reimer. 3,078.
Kordes, Reimer. 3,228.
Kordes, Reimer. 3,229.
Lens, Louis. 3,227.
Tantau, Mathias. 3,103.
Warriner, William A. 3,080.
Warriner, William A. 3,144.
Warriner, William A. 3,234.
Warriner, William A. 3,235.
Janick, Jules: See—
Dayton, Daniel F., Mowry, Hough, Bailey, Williams, Janick, Shay, and Emerson. 3,134.
Jelly, Robert G., to E. G. Hill Co., Inc. Yellow rose. 3,166, 5-9-72, Cl. 24.
Jelly, Robert G., to E. G. Hill Co., Inc. Hybrid tea rose. 3,167, 5-9-72, Cl. 14.
Jessel, Walter H.: See—
Mack, Grace H., Jessel, and Duffett. 3,276.
Mack, Grace H., Jessel, and Duffett. 3,277.
Mack, Grace H., Jessel, and Duffett. 3,278.
Jessel, Walter H., Jr.: See—
Lee, Sing L., Duffett, and Jessel. 3,249.

Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,183, 5-23-72, Cl. 79.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,184, 5-23-72, Cl. 80.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,185, 5-23-72, Cl. 79.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,189, 5-23-72, Cl. 74.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,191, 5-23-72, Cl. 78.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,213, 6-20-72, Cl. 78.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,214, 6-20-72, Cl. 79.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,215, 6-20-72, Cl. 77.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,216, 6-20-72, Cl. 77.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,220, 6-27-72, Cl. 74.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,221, 6-27-72, Cl. 80.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,231, 7-11-72, Cl. 78.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,232, 7-11-72, Cl. 82.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,233, 7-11-72, Cl. 82.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,236, 7-18-72, Cl. 79.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,248, 8-1-72, Cl. 80.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,250, 8-8-72, Cl. 78.
Jessel, Walter H., Jr., and Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,254, 8-15-72, Cl. 81.
Jessel, Walter H., Jr., and Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,255, 8-15-72, Cl. 80.
Jessel, Walter H., Jr., and Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,256, 8-15-72, Cl. 81.
Jessel, Walter H., Jr., and Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,257, 8-15-72, Cl. 78.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,262, 12-5-72, Cl. 82.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,263, 12-5-72, Cl. 82.
Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,279, 12-26-72, Cl. 78.
Johnson, Harold A., Jr., and H. E. Thomas, to Driscoll Strawberry Associates, Inc. Strawberry plant. 3,123, 4-18-72, Cl. 49.
Johnson, Harold A., Jr., to Driscoll Strawberry Associates, Inc. Strawberry plant. 3,274, 12-19-72, Cl. 49.
Johnson, Harold A., Jr., to Driscoll Strawberry Associates, Inc. Strawberry plant. 3,275, 12-19-72, Cl. 49.
Kendall, Harold E. Avocado tree. 3,116, 4-18-72, Cl. 44.
Kendall, Harold E. Avocado tree. 3,117, 4-18-72, Cl. 44.
Kimbrow, E. V.: See—
Curtis, Eldon C. 3,115.
Klehm, Carl G. Peony plant. 3,264, 12-5-72, Cl. 68.
Klehm, Carl G. Peony plant. 3,265, 12-5-72, Cl. 68.
Klehm, Carl G. Peony plant. 3,266, 12-5-72, Cl. 68.
Klehm, Carl G. Peony plant. 3,268, 12-12-72, Cl. 68.
Klehm, Carl G. Peony plant. 3,269, 12-12-72, Cl. 68.
Klehm, Carl G. Peony plant. 3,270, 12-12-72, Cl. 68.
Klehm, Carl G. Peony plant. 3,271, 12-12-72, Cl. 68.
Klupenger, Joseph H., to Geo. J. Ball, Inc. Azalea plant. 3,086, 3-28-72, Cl. 55.
Knically, Walter W., and W. E. Duffett, to Yoder Brothers, Inc. Azalea plant. 3,171, 5-16-72, Cl. 56.
Knically, Walter W., and W. E. Duffett, to Yoder Brothers, Inc. Geranium plant. 3,173, 5-16-72, Cl. 68.
Knically, Walter W., and W. E. Duffett, to Yoder Brothers, Inc. Geranium plant. 3,174, 5-16-72, Cl. 68.
Kordes, Reimer, to Jackson & Perkins Co. Rose plant. 3,078, 10-19-71, Cl. 19.
Kordes, Reimer, to Jackson & Perkins Co. Rose plant. 3,228, 7-4-72, Cl. 15.
Kordes, Reimer, to Jackson & Perkins Co. Rose plant. 3,229, 7-4-72, Cl. 22.
Krieff, Michel, to Paul Pekmez. Rose plant. 3,139, 4-25-72, Cl. 16.
Lammerts, Walter E., to Germann's, Inc. Rose plant. 3,129, 4-25-72, Cl. 20.
Lammerts, Walter E., to Germann's, Inc. Rose plant. 3,162, 5-9-72, Cl. 22.
Lammerts, Walter E., to Devor Nurseries, Inc. Rose plant. 3,203, 5-30-72, Cl. 21.
Larus, Charles T.: See—
Larus, John R. and C. T. 3,253.
Larus, John R. and C. T., to Selected Glads, Inc. New and distinct variety of gladiolus. 3,253, 8-8-72, Cl. 85.
Lavoie, Esther: See—
Millay, Ruth. 3,153.
Lee, Sing L., W. H. Jessel, Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,249, 8-1-72, Cl. 77.
Lens, Louis, to Jackson & Perkins Co. Rose plant. 3,227, 7-4-72, Cl. 20.
Lewis, Helen H.: See—
Lewis, Hubert B. and H. H. 3,089.

Lewis, Hubert B. and H. H., Azalea plant. 3,089, 3-28-72, Cl. 56.
Lincoln Rochester Trust Co.: See—
Boerner, Eugene S. 3,118.
Lindquist, Robert V., to Hemet Wholesale. Rose plant. 3,063, 10-5-71, Cl. 17.
Lindquist, Robert V., to Hemet Wholesale. Rose plant. 3,069, 10-12-71, Cl. 29.
Littlefield, June F.: See—
Millay, Ruth. 3,153.
Long, John A.: See—
Gruis, Jake T., Mayer, and Long. 3,180.
Mack, Grace H.: See—
Mack, Grace H., Jessel, and Duffett. 3,276.
Mack, Grace H., Jessel, and Duffett. 3,277.
Mack, Grace H., Jessel, and Duffett. 3,278.
Mack, Grace H., W. H. Jessel, Jr., and W. E. Duffett, to Grace H. Mack. Chrysanthemum plant. 3,276, 12-19-71, Cl. 75.
Mack, Grace H., W. H. Jessel, Jr., and W. E. Duffett, to Grace H. Mack. Chrysanthemum plant. 3,277, 12-26-72, Cl. 75.
Mack, Grace H., W. H. Jessel, Jr., and W. E. Duffett, to Grace H. Mack. Chrysanthemum plant. 3,278, 12-26-72, Cl. 75.
Manatee, Inc.: See—
Vogel, Paul A. 3,218.
Marshall, Cecil C., to Selected Glads, Inc. Gladiolus. 3,237, 7-18-72, Cl. 85.
Marshall Nurseries: See—
Schlapfer, Richard E. 3,088.
Matzkau, Henry, to Yoder Brothers, Inc. Azalea plant. 3,251, 8-8-72, Cl. 57.
Mayer, Eugene W.: See—
Fuchigami, Torao T., and Mayer. 3,156.
Gruis, Jake T., Mayer, and Long. 3,180.
McCannon, Charles B., to Frank J. Munt Flowers, Inc. Rose plant. 3,072, 10-21-71, Cl. 18.
McColley, Robert H., to Yoder Bros., Inc. Philodendron plant. 3,081, 10-19-71, Cl. 88.
McGill, A. & Son: See—
McIntyre, John H. 3,258.
McIntyre, John H. 3,259.
McIntyre, John H. 3,260.
McGill, W. E., Trust, The: See—
McIntyre, John H. 3,258.
McIntyre, John H. 3,259.
McIntyre, John H. 3,260.
McGredy, Samuel. Rose plant. 3,091, 3-28-72, Cl. 20.
McGredy, Samuel. Rose plant. 3,068, 10-5-71, Cl. 25.
McGredy, Samuel. Rose plant. 3,070, 10-12-71, Cl. 28.
McGredy, Samuel. Rose plant. 3,071, 10-12-71, Cl. 12.
McGredy, Samuel D., to Howard Rose Co. Rose plant. 3,226, 7-4-72, Cl. 11.
McGredy, Samuel, IV., to Armstrong Nurseries, Inc. Rose plant. 3,111, 4-11-72, Cl. 22.
McIntyre, John H., to The W. E. McGill Trust, d.b.a. A. McGill & Son. Maple tree. 3,258, 8-22-72, Cl. 51.
McIntyre, John H., to The W. E. McGill Trust, d.b.a. A. McGill & Son. Linden tree. 3,259, 8-22-72, Cl. 51.
McIntyre, John H., to The W. E. McGill Trust, d.b.a. A. McGill & Son. Honey locust tree. 3,260, 8-22-72, Cl. 52.
McVeigh, Kevin J., and C. R. Funk, Jr. to Rutgers University. Bluegrass plant. 3,223, 6-27-72, Cl. 88.
Melland, Alain, to Conard-Pyle Co. Rose plant. 3,104, 4-11-72, Cl. 18.
Melland, Marie-Louis, to The Conard-Pyle Co. Rose plant. 3,095, 4-4-72, Cl. 18.
Merrill, Grant. Nectarine. 3,064, 10-5-71, Cl. 41.
Merrill, Grant. Peach tree. 3,230, 7-4-72, Cl. 43.
Meyer, Carl, to The Conard-Pyle Co. Rose plant. 3,097, 4-4-72, Cl. 11.
Mikkelsen's Inc.: See—
Holm, Josef. 3,122.
Millay, Ruth, to J. F. Littlefield, E. Lavoie, and L. A. Young. Strawberry plant. 3,153, 5-9-72, Cl. 49.
Miller, Henry W., Jr., to Hill Top Orchards & Nurseries, Inc. New and distinct variety of apple tree named Spureerome. 3,198, 5-30-72, Cl. 34.
Monrovia Nursery Co.: See—
Asper, J. Howard. 3,170.
Hancock, M. Leslie. 3,211.
Spring, Otto F. 3,169.
Taylor, Rowell B., Jr. 3,168.
Moore, Ralph S. Miniature rose plant. 3,083, 3-28-72, Cl. 10.
Moore, Ralph S. Miniature rose plant. 3,084, 3-28-72, Cl. 9.
Moore, Ralph S. Miniature rose plant. 3,137, 4-25-72, Cl. 9.
Moore, Ralph S. Rose plant. 3,161, 5-9-72, Cl. 10.
Moore, Ralph S. Miniature rose plant. 3,245, 8-1-72, Cl. 7.
Moore, Ralph S. Miniature rose plant. 3,246, 8-1-72, Cl. 10.
Motzkau, Henry W., to Yoder Brothers, Inc. Azalea plant. 3,143, 5-2-72, Cl. 37.
Motzkau, Henry W., to Yoder Brothers, Inc. Azalea plant. 3,172, 5-16-72, Cl. 56.
Motzkau, Henry W., to Yoder Brothers, Inc. Azalea plant. 3,188, 5-23-72, Cl. 57.
Mowry, James R.: See—
Dayton, Daniel F., Mowry, Hough, Bailey, Williams, Janick, Shay, and Emerson. 3,134.
Munt, Frank J., Flowers, Inc.: See—
McCannon, Charles B. 3,072.
Muratore, Giacomo, to Guido Bandoni. Walnut tree. 3,141, 4-25-72, Cl. 32.
Nakamura, Clifford S., M., and G.; said M. Nakamura assignor to said C. S. Nakamura, and G. Apple tree. 3,182, 5-23-72, Cl. 35.

Nakamura, George: See—
Nakamura, Clifford S., M., and G. 3,182.
Nakamura, Misuyo: See—
Nakamura, Clifford S., M., and G. 3,182.
Nurserymen's Exchange, Inc.: See—
Pearlstein, Carl. 3,066.
Osterman, William T., to Stark Bro's Nurseries & Orchards Co. Pecan tree. 3,158, 5-9-72, Cl. 31.
Pan-American Plant Co.: See—
Danielson, Robert E. 3,280.
Shoesmith, Leonard H. 3,192.
Shoesmith, Leonard H. 3,194.
Shoesmith, Leonard H. 3,195.
Shoesmith, Leonard H. 3,224.
Shoesmith, Leonard H. 3,225.
Patterson & Hale: See—
Sherrill, Lewis B. 3,199.
Patterson, John W. Variety of rose. 3,073, 10-12-71, Cl. 20.
Patterson, John W. Variety of rose. 3,074, 10-12-71, Cl. 19.
Patterson, John W., to Patterson Roses. Rose plant. 3,113, 4-18-72, Cl. 19.
Patterson Roses: See—
Patterson, John W. 3,113.
Paul, Ronald. Peach tree. 3,179, 5-16-72, Cl. 43.
Pearlstein, Carl, to Nurserymen's Exchange, Inc. Azalea plant. 3,066, 10-5-71, Cl. 57.
Pekmez, Paul: See—
Krieff, Michel. 3,139.
Pennock, Charles E., to Cerro Gordo Nursery, Inc. Dracaena celses. 3,219, 6-20-72, Cl. 88.
Pepin, Gerard W., and C. R. Funk, Jr., to Rutgers University. New and distinct variety of bluegrass plant. 3,150, 5-2-72, Cl. 88.
Pepin, Gerard W., and C. R. Funk, Jr., to Rutgers University. New and distinct variety of bluegrass plant. 3,152, 5-2-72, Cl. 88.
Pepin, Gerard W., and C. R. Funk, Jr., to E. F. Burlingham and Sons. Bluegrass plant. 3,239, 7-18-72, Cl. 88.
Peterman, Rodney E. Walnut tree. 3,142, 4-25-72, Cl. 32.
Pipkin, William T. Plum tree. 3,100, 4-4-72, Cl. 38.
Post Gardens, Inc.: See—
Smith, Spencer R. 3,240.
Pratt, Lester P., to Van Mel Nursery, Inc. Peach tree. 3,217, 6-20-72, Cl. 43.
Purdue Research Foundation: See—
Dayton, Daniel F., Mowry, Hough, Bailey, Williams, Janick, Shay, and Emerson. 3,134.
Daniel, William H. 3,135.
Daniel, William H. 3,175.
Daniel, William H. 3,176.
Daniel, William H. 3,177.
Reedley Nursery, Inc.: See—
Anderson, Frederic W. 3,165.
Anderson, Frederic W. 3,202.
Roberts, Alfred N., to Geo. J. Ball, Inc. White azalea plant. 3,093, 4-4-72, Cl. 55.
Robinson, Don M.: See—
Robinson, Merchant N. and D. M. 3,136.
Robinson, Merchant N. and D. M. Dwarf Boston fern plant. 3,136, 4-25-72, Cl. 88.
Rothhouse, Louis, to Stark Bro's Nurseries & Orchards Co. Walnut tree. 3,159, 5-9-72, Cl. 32.
Rutgers University: See—
Funk, Cyril R., Jr. 3,151.
McVeigh, Kevin J., and Funk. 3,223.
Pepin, Gerard W., and Funk. 3,150.
Pepin, Gerard W., and Funk. 3,152.
Scanlon, Edward H. European bird cherry tree. 3,107, 4-11-72, Cl. 37.
Schaepman, Cornelis W. H. M.: See—
Barenbrug, Josephur J., and Schaepman. 3,186.
Schichtel, George V., to J. Frank Schmidt & Son Co. Maple tree. 3,109, 4-11-72, Cl. 51.
Schlapfer, Richard E., to Marshall Nurseries. Ash tree. 3,088, 3-28-72, Cl. 51.
Schmidt, Frank J., and Son Co.: See—
Halka, Chester J. 3,096.
Schmidt, J. Frank, and Son Co.: See—
Baron, Milton. 3,114.
Schichtel, George V. 3,109.
Scott, O. M., and Sons Co. The: See—
Fuchigami, Torao T., and Mayer. 3,156.
Gruis, Jake T., Mayer, and Long. 3,180.
Selected Glads, Inc.: See—
Fischer, Carl H. 3,079.
Larus, John R., and C. T. 3,253.
Marshall, Cecil C. 3,237.
Walker, Donald J. and A. I. 3,238.
Serpa, Frank J., to Hines Wholesale Nurseries. Juniperus chinensis. 3,140, 4-25-72, Cl. 50.
Shay, James R.: See—
Dayton, Daniel F., Mowry, Hough, Bailey, Williams, Janick, Shay, and Emerson. 3,134.
Sherrill, Lewis B., to Patterson & Hale. Peach tree. 3,199, 5-30-72, Cl. 43.
Shoesmith, Leonard H., to Pan-American Plant Co. Chrysanthemum plant (Polar Beauty). 3,192, 5-23-72, Cl. 77.
Shoesmith, Leonard H., to Pan-American Plant Co. Chrysanthemum plant (Onward). 3,194, 5-23-72, Cl. 79.
Shoesmith, Leonard H., to Pan-American Plant Co. Chrysanthemum plant (Eldorado). 3,195, 5-23-72, Cl. 78.
Shoesmith, Leonard H., to Pan-American Plant Co. Chrysanthemum plant (Hostess). 3,224, 7-4-72, Cl. 76.

- Shoesmith, Leonard H., to Pan-American Plant Co. Chrysanthemum plant (Copperplate). 3,225, 7-4-72, Cl. 79.
 Smith, Spencer R., to Post Gardens, Inc. Azalea plant. 3,240, 7-18-72, Cl. 57.
 Spring, Otto F., to Monrovia Nursery Co. Crape myrtle. 3,169, 5-16-72, Cl. 54.
 Staggs, Sam E.: *See—*
 Staggs, Wilton L. and S. E. 3,127.
 Staggs, Wilton L. and S. E. Peach tree. 3,127, 4-18-72, Cl. 43.
 Stark Bro's Nurseries & Orchards Co.: *See—*
 Osterman, William T. 3,158.
 Rodhouse, Louis. 3,159.
 Taylor, Alvah. 3,121.
 Straw, William T. Ornamental pear tree. 3,193, 5-23-72, Cl. 36.
 Sturrock, David, New and distinct variety of mango. 3,181, 5-16-72, Cl. 33.
 Sweet, Jack S., to Geo. J. Ball, Inc. Rose plant. 3,094, 4-4-72, Cl. 26.
 Swim, Herbert C., and O. L. Weeks, to O. L. Weeks, d.b.a. Weeks Wholesale Rose Grower. Rose plant. 3,098, 4-4-72, Cl. 20.
 Swim Herbert C., and O. L. Weeks, to The Conard-Pyle Co. Rose plant. 3,163, 5-9-72, Cl. 20.
 Swim, Herbert C., and O. L. Weeks, to O. L. Weeks, d.b.a. Weeks Wholesale Rose Grower. Rose plant. 3,243, 7-25-72, Cl. 11.
 Swim, Herbert C., and O. L. Weeks, to O. L. Weeks, d.b.a. Weeks Wholesale Rose Grower. Rose plant. 3,244, 7-25-72, Cl. 11.
 Tantau, Mathias, to Jackson & Perkins Co. Rose plant. 3,103, 4-11-72, Cl. 24.
 Taylor, Alvah, to Stark Bro's Nurseries & Orchards Co. Apple tree. 3,121, 4-18-72, Cl. 34.
 Taylor, Rowell B., Jr., to Monrovia Nursery Co. Holly bush. 3,168, 5-16-72, Cl. 65.
 Texas A&I University: *See—*
 Hensz, Richard A. 3,222.
 Thomas, Harold E.: *See—*
 Johnson, Harold A., Jr., and Thomas. 3,123.
 Toy, St. Joseph. Almond tree. 3,085, 3-28-72, Cl. 30.
 Treesearch: *See—*
 Costich, Peter E. 3,090.
 Flemer, William, III. 3,092.
 Flemer, William J., and W. Flemer III. 3,108.
 Trinta, Manuel S. Almond tree. 3,201, 5-30-72, Cl. 30.
 University of California, The Regents of the: *See—*
 Bringhurst, Royce S., and Voth. 3,178.
 Hartmann, Hudson T. 3,197.
 Van Mell Nursery, Inc.: *See—*
 Pratt, Lester P. 3,217.
 Verbeek, Gijbert. Rose plant. 3,112, 4-18-72, Cl. 18.
 Vogel, Paul A., to Manatee, Inc. Chrysanthemum plant. 3,218, 6-20-72, Cl. 82.
 Voth, Victor: *See—*
 Bringhurst, Royce S., and Voth. 3,178.
 Wakefield, Mary B. Dogwood tree. 3,261, 8-22-72, Cl. 51.
 Walker, Audrey I.: *See—*
 Walker, Donald J. and A. I. 3,238.
 Walker, Donald J. and A. I., to Selected Glads, Inc. Gladiolus. 3,238, 7-18-72, Cl. 85.
 Warren, Benedict O. Bluegrass plant. 3,138, 4-25-72, Cl. 88.
 Warriner, William A., to Jackson & Perkins Co. Rose plant. 3,080, 10-19-71, Cl. 15.
 Warriner, William A., to Jackson & Perkins Co. Rose plant. 3,144, 5-2-72, Cl. 28.
- Warriner, William A., to Jackson & Perkins Co. Rose plant. 3,234, 7-11-72, Cl. 19.
 Warriner, William A., to Jackson & Perkins Co. Rose plant. 3,235, 7-11-72, Cl. 23.
 Weeks, O. L.: *See—*
 Swim, Herbert C., and Weeks. 3,098.
 Swim, Herbert C., and Weeks. 3,163.
 Swim, Herbert C., and Weeks. 3,243.
 Swim, Herbert C., and Weeks. 3,244.
 Wight Nurseries, Inc.: *See—*
 Bears, John R. 3,187.
 Wilfong, Harry B., to Yoder Brothers, Inc. Chrysanthemum plant. 3,190, 5-23-72, Cl. 77.
 Williams, Edwin B.: *See—*
 Dayton, Daniel F., Mowry, Hough, Bailey, Williams, Janick, Shay, and Emerson. 3,134.
 Williams, J. Benjamin. Rose plant. 3,065, 10-5-71, Cl. 22.
 Wilson, Emory C.: *See—*
 Wilson, William J. and E. C. 3,110.
 Wilson, William J., and E. C., to Bountiful Ridge Nurseries, Inc. Apple tree. 3,110, 4-11-72, Cl. 34.
 Yoder Brothers, Inc.: *See—*
 Harcharik, Thomas G., and Duffett. 3,252.
 Henson, Stuart F. 3,247.
 Jessel, Walter H., Jr., and Duffett. 3,183.
 Jessel, Walter H., Jr., and Duffett. 3,184.
 Jessel, Walter H., Jr., and Duffett. 3,185.
 Jessel, Walter H., Jr., and Duffett. 3,189.
 Jessel, Walter H., Jr., and Duffett. 3,191.
 Jessel, Walter H., Jr., and Duffett. 3,212.
 Jessel, Walter H., Jr., and Duffett. 3,213.
 Jessel, Walter H., Jr., and Duffett. 3,214.
 Jessel, Walter H., Jr., and Duffett. 3,215.
 Jessel, Walter H., Jr., and Duffett. 3,216.
 Jessel, Walter H., Jr., and Duffett. 3,220.
 Jessel, Walter H., Jr., and Duffett. 3,221.
 Jessel, Walter H., Jr., and Duffett. 3,231.
 Jessel, Walter H., Jr., and Duffett. 3,232.
 Jessel, Walter H., Jr., and Duffett. 3,233.
 Jessel, Walter H., Jr., and Duffett. 3,236.
 Jessel, Walter H., Jr., and Duffett. 3,248.
 Jessel, Walter H., Jr., and Duffett. 3,250.
 Jessel, Walter H., Jr., and Duffett. 3,255.
 Jessel, Walter H., Jr., and Duffett. 3,256.
 Jessel, Walter H., Jr., and Duffett. 3,257.
 Jessel, Walter H., Jr., and Duffett. 3,262.
 Jessel, Walter H., Jr., and Duffett. 3,263.
 Jessel, Walter H., Jr., and Duffett. 3,279.
 Knicey, Walter W., and Duffett. 3,171.
 Knicey, Walter W., and Duffett. 3,173.
 Knicey, Walter W., and Duffett. 3,174.
 Lee, Sing L., Jessel, and Duffett. 3,249.
 Matzkau, Henry. 3,251.
 McColley, Robert H. 3,081.
 Motzkau, Henry W. 3,143.
 Motzkau, Henry W. 3,172.
 Motzkau, Henry W. 3,188.
 Wilfong, Harry B. 3,190.
 Young, Lorna A.: *See—*
 Millay, Ruth. 3,153.
 Yuge, Takeo, to Geo. J. Ball, Inc. Azalea plant. 3,155, 5-9-72, Cl. 57.
 Zaiger, Chris F. Nectarine tree. 3,087, 3-28-72, Cl. 41.
 Zaiger, Chris F. Nectarine tree. 3,101, 4-4-72, Cl. 41.

LIST OF DEFENSIVE PUBLICATIONS

- Achorn, Frank P., and F. Anderson, Jr. Ruminant direct feeding suspension supplement. T904,004, 11-7-72, Cl. 99-2.
 Adams, Benjamin B.: *See—*
 Stoneham, Jeffrey R., and Adams. T896,007.
 Agolini, Franco, to E. I. du Pont de Nemours and Co. Polymeric photosensitizers. T901,018, 8-8-72, Cl. 260-897.
 Aldridge, Clyde L.: *See—*
 Bunting, William M., and Aldridge. T905,002.
 Bunting, William M., and Aldridge. T905,003.
 Allied Chemical Corp.: *See—*
 Tajb, Bernard. T896,018.
 Amin, Rajnikant B., and R. J. Bacher, to E. I. du Pont de Nemours and Co. Process for cleaning gold alloys. T905,007, 12-19-72, Cl. 134-41.
 Anderson, Frank, Jr.: *See—*
 Achorn, Frank P., and Anderson. T904,004.
 Arcesi, Joseph A.: *See—*
 Petropoulos, Constantine C., and Arcesi. T900,031.
 Arnold, Robert L., and J. P. VanderKooi, to Monsanto Co. Method of improving rubber to brass adhesion. T900,003, 7-18-72, Cl. 156-306.
 Atlas Chemical Industries, Inc.: *See—*
 Long, William P., Jr. T896,054.
 Attwood, Terence E., J. B. Rose, and A. F. Lennox, to Imperial Chemical Industries Ltd. Aromatic polymers. T904,027, 11-21-72, Cl. 260-49.
 Attwood, Terence E., J. B. Rose, and A. F. Lennox, to Imperial Chemical Industries, Ltd. Aromatic polymers. T905,009, 12-19-72, Cl. 260-49.
 Bacher, Rudolph J.: *See—*
 Amin, Rajnikant B., and Bacher. T905,007.
 Baden, Harry C., C. C. Bard, and J. S. Bruce. Stabilization of photographic multilayer color products. T896,043, 3-21-72, Cl. 96-68.
 Baker, Joseph W., and I. Schumacher. Bacteriostatic aralkanois. T896,003, 3-7-72, Cl. 260-618.
 Baker, Melvin C., and A. O. Rogers. Polytetramethylene ether glycol. T900,025, 7-25-72, Cl. 260-615.
 Balte, Gerhard, W. Keberle, K. Kowalewski, and B. Zorn, to Farbenfabriken Bayer Aktiengesellschaft. Process for treating sheet materials with anionic aqueous Polyurethane dispersions. T900,008, 7-18-72, Cl. 260-294.
 Bard, Charleton C.: *See—*
 Baden, Harry C., Bard, and Bruce. T896,043.
 Bard, Charleton C., and J. O. Kleffner. Retouching colored photographic images. T896,053, 3-28-72, Cl. 96-56.
 Baron, Donald J., and W. A. Snell, to United Aircraft Corp. Method of testing titanium alloys. T900,005, 7-18-72, Cl. 204-17.
 Barr, Charles R. Color diffusion transfer process. T900,029, 7-25-72, Cl. 96-3.
 Bauer, William, Jr., and N. M. Bortnick. Laminar article with fused interface. T904,016, 11-7-72, Cl. 161-254.
 Beach, David E. Lens cover and signal device. T896,020, 3-7-72, Cl. 95-11.
 Beardwood, Bruce A., B. S. Gorton, and P. E. Sample. Articles coated with a coating composition of ethylene-vinyl acetate copolymer. T904,013, 11-7-72, Cl. 117-76.
 Beavers, Dorothy J.: *See—*
 Ulbing, Cynthia G., and Beavers. T903,026.
 Beckman, Joseph A.: *See—*
 Laman, Joseph R., and Beckman. T904,002.
 Benjamins, Edwin, to E. I. du Pont de Nemours and Co. Chloroprene polymerization process. T900,023, 7-25-72, Cl. 260-92.3.
 Bergmann, Joachim: *See—*
 Westermann, Hans, Meckstroth, Bures, Zobel, and Bergmann. T896,030.
 Bloom, Melvin S., and A. R. Guevara. Sensitizers for light sensitive polymer compositions. T900,011, 7-18-72, Cl. 96-115.
 Booker, Leslie G. S., deceased, by N. G. Broderon, executor, and D. W. Heseltine. Photographic sensitizing dyes having improved solubility. T904,015, 11-7-72, Cl. 96-131.
 Borden, Douglas G.: *See—*
 Reynolds, George A., and Borden. T903,024.
 Borden, Douglas G. Photosensitive diazonium salts of xanthene dyes. T903,022, 10-3-72, Cl. 96-91.
 Borst, Ray, to Westinghouse Electric Corp. Nuclear reactor having thermally compensated support structure for a fuel assembly. T901,027, 8-15-72, Cl. 176-40.
 Bortnick, Newman M.: *See—*
 Bauer, William Jr., and Bortnick. T904,016.
 Britt, John Q. W. O. Griffiths, and M. A. Howe, Jr., to W. R. Grace & Co. Sleeve-wrapped package and method of preparing same. T900,020, 7-25-72, Cl. 206-65.
 Brizee, Mary J. W. Sensitizing dye combinations containing benzimidazolobenzoxazolocarbocyanine dyes. T904,026, 11-21-72, Cl. 96-124.
- Brizee, Mary J. W. Sensitizing dye combination containing symmetrical benzimidazolocarboyanine dyes. T903,034, 10-10-72, Cl. 96-124.
 Brock, Marilyn J., to The Firestone Tire & Rubber Co. Process of polymerizing butadiene in the presence of lithium catalyst. T896,040, 3-21-72, Cl. 260-94.2.
 Brock, Marilyn J., to The Firestone Tire & Rubber Co. Polymerization of isoprene. T896,047, 3-21-72, Cl. 260-94.2.
 Broderon, Nancy G.: *See—*
 Booker, Leslie G. S., Broderon, and Heseltine. T904,015.
 Bruce, James S.: *See—*
 Baden, Harry C., Bard, and Bruce. T896,043.
 Bunting, William M., and C. L. Aldridge. Alcohol containing gasoline. T905,002, 12-19-72, Cl. 44-56.
 Bunting, William M., and C. L. Aldridge. Hydroperoxide conversion and epoxidation catalyst. T905,003, 12-19-72, Cl. 260-348.5.
 Bures, Horst-Dieter: *See—*
 Westermann, Hans, Meckstroth, Bures, Zobel, and Bergmann. T896,030.
 Burnett, Glenna E., and C. H. Coney. Method of forming pigmented inks and coatings. T901,020, 8-8-72, Cl. 106-26.
 Caldwell, John R., and W. J. Jackson, Jr. Method for preparing fire retardant polyester fibers. T900,021, 7-25-72, Cl. 117-136.
 Camello, Paul A., to Polaroid Corp. Texturing the surface of a photographic diffusion transfer print. T903,005, 10-3-72, Cl. 96-27.
 Carter, Andrew P., Jr.: *See—*
 Decker, William D., Carter, and Lewis. T896,049.
 Celak, Richard G., and V. Ricci, to E. I. du Pont de Nemours and Co. Thermoformed packages. T901,002, 8-1-72, Cl. 206-46.
 Chang, Shirley C.: *See—*
 Vanallan, James A., and Chang. T903,017.
 Chapman, Derek D. Photographic emulsions. T904,034, 11-21-72, Cl. 96-100.
 Clurca, Samuel J., Jr. Novel cyan-dye-forming coupler. T904,035, 11-21-72, Cl. 96-100.
 Cleveland, James P. Process for preparing higher tri-organo phosphate esters. T903,016, 10-3-72, Cl. 260-982.
 Cobel, George B.: *See—*
 Kelly, James A., and Cobel. T904,023.
 Coffey, William F. Pyrazolone derivatives. T903,021, 10-3-72, Cl. 96-100.
 Coney, Charles H.: *See—*
 Burnett, Glenna E., and Coney. T901,020.
 Continental Oil Co.: *See—*
 Gordy, Travis L. T896,032.
 Gordy, Travis L. T900,017.
 Hritz, George G., Royer, and Ziegenhain. T901,010.
 Katstra, Richard D. T903,009.
 Katstra, Richard D. T903,010.
 Schuman, Leonard J., and Ertle. T904,025.
 Sosis, Paul, and Katstra. T896,025.
 Contois, Lawrence E.: *See—*
 Reynolds, George A., Vanallan, and Contois. T904,032.
 Cook, Robert R., and R. P. Krygowski, to Ford Motor Co. Internal combustion engine dual induction system. T903,020, 10-3-72, Cl. 128-188.
 Copelin, Harry B., to E. I. du Pont de Nemours and Co. Preparation of diols from unsaturated alcohols. T904,021, 11-21-72, Cl. 260-635.
 Crouse, William G., to International Business Machines Corp. Capacitive matrix sensing method and apparatus. T904,008, 11-7-72, Cl. 340-365.
 Cossar, Bernard C.: *See—*
 Reynolds, Delbert D., and Cossar. T900,001.
 Cossar, Bernard C., and F. L. Hamb. Polyesteramides of p-aminomethylphenols. T896,026, 3-14-72, Cl. 96-87.
 Costa, Lorenzo F., F. Grum, and J. A. Van Allan. Solid scintillators. T896,044, 3-21-72, Cl. 250-71.
 Dairyland Food Laboratories, Inc.: *See—*
 Nelson, John H. T901,012.
 Dannelly, Clarence C.: *See—*
 Henry, James W., and Dannelly. T901,003.
 Davie, Neil R., to International Business Machines Corp. Unique class of two-pole active filters. T904,030, 11-21-72, Cl. 307-295.
 Davis, Lee H., and D. R. Leonard. Waxing and polishing of surfaces by means of ablative waxing compositions. T903,031, 10-10-72, Cl. 401-96.
 Davis, Thomas G., D. L. Nealy, and J. W. Reynolds. Process for removing metallic color producing contaminants from solutions of bis(beta-hydroxyethyl)terephthalate in ethylene glycol. T900,013, 7-18-72, Cl. 260-475.
 Day, Bruce F., to E. I. du Pont de Nemours and Co. Heat-shrinkable plastic films. T905,001, 12-19-72, Cl. 264-25.
 Decker, William D., A. P. Carter, Jr., and C. R. Lewis. Modified bobbin chuck. T896,049, 3-28-72, Cl. 242-18.

- Delmore, Paul J. Photographic silver recovery process. T904,009, 11-7-72, Cl. 204-109.
- Dempski, Robert E. Laser process of printing tablets and capsules. T903,014, 10-3-72, Cl. 219-121.
- De So Deex, Oliver, and W. F. Fallwell, Jr., to Monsanto Co. Terpolymer compositions. T903,001, 10-3-72, Cl. 117-155.
- Devaney, Richard G.: *See*—
Sharp, John O., and Devaney. T903,013.
- Dexter, John L., to Gyrex Corp. Optical system for a photo-sensitive material printer. T903,018, 10-3-72, Cl. 355-84.
- Dickerson, Sarah J.: *See*—
Edwards, Daniel L., Jr. and Dickerson. T896,021.
- Dickert, James E., and W. D. McGillen. Hot melt carpet backing adhesives and article of manufacture and process. T900,016, 7-25-72, Cl. 260-27.
- Dietl, Hans K., and A. E. Lewis. Separation of H-isopropylacrylamide from sulfuric acid solutions thereof. T900,014, 7-25-72, Cl. 260-561.
- Dietl, Hans K., and H. S. Young. Preparation of substituted cyclohexadienones. T903,007, 10-3-72, Cl. 260-396.
- Dillon, Brian D.: *See*—
Huffaker, James E., and Dillon. T896,014.
- Dow Chemical Co.: *See*—
Kelly, James A., and Cobel. T904,023.
- Draganov, Samuel M., to U.S. Borax & Chemical Corp. Fire-retardant polyester compositions. T903,019, 10-3-72, Cl. 260-40.
- Dubled, Edouard, & Cie Societe Anonyme: *See*—
Schmid, Ernest. T901,004.
- Du Pont de Nemours, E. I., and Co.: *See*—
Agolini, Franco. T901,018.
- Amin, Rajnikant B., and Bacher. T905,007.
- Benjamins, Edwin. T900,023.
- Celak, Richard G., and Ricci. T901,002.
- Copelin, Harry B. T904,021.
- Day, Bruce F. T905,001.
- Fields, David P. T904,014.
- Goldman, Max. T903,011.
- Govindan, Tirunillai S. T901,007.
- Griffin, Donald P. T896,038.
- Hamlin, Arthur H., Kilson, and Wood. T896,051.
- Harris, Roland G. T896,016.
- Haskell, Vernon C. T904,001.
- Kottenhahn, Alfred P. T903,002.
- Lawes, Bernard C. T901,022.
- Long, Victor C. T896,055.
- Mell, George P. T904,006.
- Ojakaar, Leo. T901,006.
- Parsons, Joseph F. T896,005.
- Phillips, Brian R., and Hutchins. T901,001.
- Quinn, James M., and Swain. T903,012.
- Regester, Richard F. T905,010.
- Reilly, Eugene P. T896,013.
- Richard, Paul H. T896,002.
- Rufino, Jose J. T896,012.
- Short, Oliver A. T905,011.
- Starr, Frank C., Jr. T896,009.
- Takeshita, Tsuneichi. T904,010.
- Timmer, Roy C. T901,011.
- Thompson, Gordon W. T901,029.
- Wang, David. T903,036.
- Wielar, Jack B., II. T900,002.
- Wollinski, Leon E. T896,017.
- Dunham, Kenneth R., and M. E. Yost. Ultraviolet absorptive masks. T900,009, 7-18-72, Cl. 96-115.
- Eastman Kodak Co.: *See*—
Stevenson, George M. T896,001.
- Welsh, Robert H., and Onorato. T905,013.
- Westermann, Hans, Meckstroth, Bures, Zobel, and Bergmann. T896,030.
- Edwards, Daniel L., Jr. and S. J. Dickerson. Stabilized oxidized-polyethylene compositions. T896,021, 3-14-72, Cl. 260-29.6.
- Elam, Edward U., and M. A. Weaver. Process for removing methyl p-formylbenzoate from mixtures and novel anils obtained therefrom. T904,011, 11-7-72, Cl. 260-471.
- Ertle, Raymond T.: *See*—
Schuman, Leonard J., and Ertle. T904,025.
- Fairfield, John M., M. Joshi, and G. H. Schwutke, to International Business Machines Corp. Method for making semiconductor junction devices. T896,048, 3-28-72, Cl. 148-188.
- Fallwell, William F., Jr.: *See*—
De So Deex, Oliver, and Fallwell. T903,001.
- Farbenfabriken Bayer Aktiengesellschaft: *See*—
Balle, Gerhard, Keberle, Kowalewski, and Zorn. T900,008.
- Fields, David P., to E. I. du Pont de Nemours and Co. Leaching/heating process for potassium tetratitanate fibers. T904,014, 11-7-72, Cl. 423-598.
- Firestone Tire & Rubber Co.: *See*—
Brock, Marilyn J. T896,040.
- Brock, Marilyn J. T896,047.
- Johnson, Charles R., and Jones. T900,022.
- Laman, Joseph R., and J. A. Beckman. T904,002.
- Fleming, James C. Diazotype composition and element. T904,005, 11-7-72, Cl. 96-81.
- Ford, Frederick E., and H. S. A. Gilmour. Self-heating diffusion transfer film unit. T904,028, 11-21-72, Cl. 96-76.
- Ford, John A., Jr., and D. P. Specht. Substituted indanones and indandiones as organic photoconductors. T896,027, 3-14-72, Cl. 96-1.5.
- Ford Motor Co.: *See*—
Cook, Robert R., and Krygowski. T903,020.
- Frost, David A. Photographic film unit. T903,006, 10-3-72, Cl. 95-13.
- Garner, Paul J., to Imperial Chemical Industries Ltd. Production of laminar articles. T904,007, 11-7-72, Cl. 264-45.
- Gaskin, Stuart, and E. Nield, to Imperial Chemical Industries Ltd. Copolymers. T904,029, 11-21-72, Cl. 260-857.
- General Electric Co.: *See*—
Olsen, Arthur A. T896,041.
- Gibson, Joseph Whitton, Jr. Fabric knitted of different color yarns. T901,013, 8-1-72, Cl. 66-169.
- Gilman, Paul B., Jr.: *See*—
Rauber, Frederick J., and Gilman. T896,035.
- Gilmour, Hugh S. A.: *See*—
Ford, Frederick E., and Gilmour. T904,028.
- Glanvill, Alan B. Antistatic Polyolefin composition. T896,006, 3-7-72, Cl. 260-93.7.
- Goldman, Max, to E. I. du Pont de Nemours and Co. Laminar elastomeric film structures. T903,011, 10-3-72, Cl. 161-253.
- Goldstein, Norman P., and K. H. Sun, to Westinghouse Electric Corp. Apparatus for power and breeding distribution measurements in breeder reactors. T901,026, 8-15-72, Cl. 250-33.3.
- Gorton, Bert S.: *See*—
Beardwood, Bruce A., Gorton, and Sample. T904,013.
- Gordy, Travis L., to Continental Oil Co. Substrates having strippable protective coatings. T896,032, 3-14-72, Cl. 260-28.5.
- Gordy, Travis L., to Continental Oil Co. Strippable coating composition. T900,017, 7-25-72, Cl. 117-6.
- Govindan, Tirunillai S., to E. I. du Pont de Nemours and Co. Process for making smooth vapor-permeable microporous sheet. T901,007, 8-1-72, Cl. 117-63.
- Grace, W. R., & Co.: *See*—
Britt, John Q., Griffiths, and Howe. T900,020.
- Griffin, Donald F., to E. I. du Pont de Nemours and Co. External slitting after tubular film preparation. T896,038, 3-21-72, Cl. 264-95.
- Griffiths, William O.: *See*—
Britt, John Q., Griffiths, and Howe. T900,020.
- Groves, William L., Jr. Detergent bar. T896,045, 3-21-72, Cl. 252-121.
- Grum, Frank: *See*—
Costa, Lorenzo F., Grum, and Van Allan. T896,044.
- Guevara, Alfredo R.: *See*—
Bloom, Melvin S., and Guevara. T900,011.
- Gunner, Leroy F. Hot-knife cutter for inner-tube splicer. T903,032, 10-10-72, Cl. 83-171.
- Gyrex Corp.: *See*—
Dexter, John L. T903,018.
- Haist, Grant M.: *See*—
King, James R., and Haist. T905,004.
- Halasa, Adel F. Composition of matter and method. T896,004, 3-7-72, Cl. 260-79.5.
- Hamb, Frederick L.: *See*—
Cossar, Bernard C., and Hamb. T896,026.
- Hamb, Frederick L., and J. C. Wilson. Film forming polymeric compositions. T896,033, 3-14-72, Cl. 96-87.
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- Hamb, Fredrick L., and J. F. Stenberg. Catalytic hydrogenation. T901,017, 8-8-72, Cl. 260-486.
- Hamlin, Arthur H., H. Kilson, and H. P. Wood, to E. I. du Pont de Nemours and Co. Process for forming colloidal polymeric dispersions for making microporous materials. T896,051, 3-28-72, Cl. 260-29.2.
- Harris, Roland G., to E. I. du Pont de Nemours and Co. Food package. T896,016, 3-7-72, Cl. 99-171.
- Haskell, Vernon C., to E. I. du Pont de Nemours and Co. Process for the dispersion polymerization of a vinylidene chloride copolymer. T904,001, 11-7-72, Cl. 260-33.
- Helwig, Lawrence E., M. V. Murray, and L. B. Ticknor, to United States Steel Corp. Aluminum coating with improved corrosion resistance and method for making same. T905,005, 12-19-72, Cl. 29-195.
- Henn, Richard W.: *See*—
Miller, Howard A., and Henn. T896,024.
- Henry, James W., and C. C. Dannelly. Carpet construction having high resistance to propagation of flaming on contact with incandescent or burning bodies. T901,003, 8-1-72, Cl. 161-86.
- Hercules Inc.: *See*—
Tillson, Henry C. T896,029.
- Vernick, Barry H. T901,021.
- Zimmerman, Gerald H. T896,052.
- Heseltine, Donald W.: *See*—
Booker, Leslie G. S., Broderick, and Heseltine. T904,015.
- Hoar, Donald W.: *See*—
Olson, Floyd C., and Hoar. T896,050.
- Hollander, Edward R., Jr. Extrusion apparatus for manufacture of thermoplastic pipe. T900,024, 7-25-72, Cl. 18-14.
- Holstead, Colin: *See*—
Thomas, David A., and Holstead. T900,030.
- Howe, Milton A., Jr.: *See*—
Britt, John Q., Griffiths, and Howe. T900,020.
- Hritz, George G., D. J. Royer and W. C. Ziegenhain, to Continental Oil Co. Water dispersible alpha-alumina monohydrate. T901,010, 8-1-72, Cl. 23-143.
- Hsu, Rex J., and D. D. Reynolds. Method for developing diazotype elements. T905,012, 12-19-72, Cl. 96-49.

- Huffaker, James E., and B. D. Dillon. Method of making play-wood cores. T896,014, 3-7-72, Cl. 161-60.
- Huffaker, James E., and C. L. Terrell. Method and apparatus for controlling draw down of plastic coating process. T904-019, 11-21-72, Cl. 156-272.
- Hunter, Clarence S. Printing ink containing a lactone solvent. T903,023, 10-3-72, Cl. 106-22.
- Hutchins, Richard D.: *See*—
Phillips, Brian R., and Hutchins. T901,001.
- International Business Machines Corp.: *See*—
Perriens, Matthews P., and Williams. T900,006.
- Imperial Chemical Industries, Ltd.: *See*—
Attwood, Terence E., Rose, and Lennox. T904,027.
- Attwood, Terence E., Rose, and Lennox. T905,009.
- Garner, Paul J. T904,007.
- Gaskin, Stuart, and Nield. T904,029.
- Staniland, Philip A., and Whale. T904,012.
- International Business Machines Corp.: *See*—
Crouse, William G. T904,008.
- Davie, Neil R. T904,030.
- Perriens, Matthews P., and Williams. T900,006.
- Fairfield, John M., Joshi, and Schwutke. T896,048.
- Jackson, Winston J., Jr.: *See*—
Caldwell, John R., and Jackson. T900,021.
- Johnson, Charles R., and W. E. Jones, to The Firestone Tire & Rubber Co. Polymerization process. T900,022, 7-25-72, Cl. 260-80.7.
- Johnson, Lou P., and P. J. Trent. Composition for stripping coatings from substrates. T905,006, 12-19-72, Cl. 252-153.
- Jones, Thomas M. Suspensions. T900,026, 7-25-72, Cl. 71-34.
- Jones, Warren E.: *See*—
Johnson, Charles R., and Jones. T900,022.
- Joshi, Madhukar: *See*—
Fairchild, John M., Joshi, and Schwutke. T896,048.
- Kasper, George P.: *See*—
Kroon, Keith W., and Kasper. T904,018.
- Kasper, George P., and J. H. Taylor. Radiographic elements and binders. T901,019, 8-8-72, Cl. 250-65.
- Katsira, Richard D.: *See*—
Sosis, Paul, and Katsira. T896,025.
- Katsira, Richard D., to Continental Oil Co. Phosphorus-free cleaning formulations. T903,009, 10-3-72, Cl. 252-559.
- Katsira, Richard D., to Continental Oil Co. Phosphorus-free cleaning formulations. T903,010, 10-3-72, Cl. 252-546.
- Keberle, Wolfgang: *See*—
Balle, Gerhard, Keberle, Kowalewski, and Zorn. T900,008.
- Kelly, James A., and G. B. Cobel, to The Dow Chemical Co. Direct addition of magnesium-metal to a turbine engine combustion chamber. T904,023, 11-21-72, Cl. 60-39.20.
- Kilson, Henn: *See*—
Hamlin, Arthur H., Kilson, and Wood. T896,051.
- King, Charles L., and J. H. Ryan, Jr., to E. I. du Pont de Nemours and Co. Shoe liner. T896,036, 3-14-72, Cl. 161-92.
- King, James R., and G. M. Haist. Photographic element and process. T905,004, 12-19-72, Cl. 96-49.
- Kiscaden, Donald C. Apparatus for liquid treatment of filaments. T905,008, 12-19-72, Cl. 28-59.
- Kleffner, Joseph O.: *See*—
Bard, Charleton C., and Kleffner. T896,053.
- Klemchuk, Peter. Chemically cross-linked polyethylene stabilized with sulfur containing alkylsulfates of hindered hydroxyphenylalkanoic acids. T904,024, 11-21-72, Cl. 260-45.85 B.
- Knowles, Richard N. Durable press catalyst system. T896,042, 3-21-72, Cl. 8-115.7.
- Kottenhahn, Alfred P., to E. I. du Pont de Nemours & Co. Recovering values from monovinylacetylene catalyst tars. T903,002, 10-3-72, Cl. 23-312.
- Kowalewski, Karlheinz: *See*—
Balle, Gerhard, Keberle, Kowalewski, and Zorn. T900,008.
- Kroon, Keith W., and G. P. Kasper. Coating compositions. T904,018, 11-21-72, Cl. 250-80.
- Krygowski, Richard P.: *See*—
Cook, Robert R., and Krygowski. T903,020.
- Kurz, Richard K., and D. V. Young. Method of increasing the sharpness of photographic images. T904,022, 11-21-72, Cl. 96-109.
- Laman, Joseph R., and J. A. Beckman, to The Firestone Tire & Rubber Co. Production of carbon black from distillate of rubber. T904,002, 11-7-72, Cl. 423-450.
- Landis Tool Co.: *See*—
Snyder, Glenn M., and Luckenbach. T896,028.
- Lane, George C., to Warner-Lambert Co. Razor blade coating. T904,020, 11-21-72, Cl. 204-192.
- Lau, Philip T. S. Novel photographic couplers. T901,025, 8-8-72, Cl. 9-100.
- Lauderback, William H. Smoke suppressor. T900,004, 7-18-72, Cl. 23-2.
- Lawes, Bernard C., to E. I. du Pont de Nemours and Co. Process for foaming and gelling hydroxylated polymeric material. T901,022, 8-8-72, Cl. 60-2.5.
- Lee, Robert G., and R. D. Mitchell. Urea-ammonium polyphosphate production. T900,018, 7-25-72, Cl. 71-29.
- Lee, Robert G., and M. M. Norton. Monoammonium phosphate production. T904,032, 11-21-72, Cl. 71-34.
- Lee, Robert G., and M. M. Norton. Monoammonium phosphate production. T904,033, 11-21-72, Cl. 71-34.
- Lee, William E.: *See*—
Williams, Leslie A., and Lee. T896,022.
- Le Fevre, Cecil W., V. Regentli, V. W. Woestemeyer, and W. G. Woods, to United States Borax & Chemical Corp. Herbicidal combination. T901,009, 8-1-72, Cl. 71-121.
- Lennox, Alan F.: *See*—
Attwood, Terence E., Rose, and Lennox. T904,027.
- Attwood, Terence E., Rose, and Lennox. T905,009.
- Leonard, Don R.: *See*—
Davis, Lee H., and Leonard. T903,031.
- Valentine, David L., Leonard, and Beeler. T896,039.
- Lewis, Alan E.: *See*—
Dietl, Hans K., and Lewis. T900,014.
- Lewis, Charles R.: *See*—
Decker, William D., Carter, and Lewis. T896,049.
- Lewis, Howard M. Prevention of fiber shedding from napped polyester blankets. T896,015, 3-7-72, Cl. 117-138.8.
- Lochmaier, Wayne W. Emulsions and uses thereof. T896,010, 3-7-72, Cl. 117-136.
- Long, Marlin R., to Texas-U.S. Chemical Co. Battery container composition and process. T901,030, 8-15-72, Cl. 260-41.5.
- Long, Victor C., to E. I. du Pont de Nemours and Co. Coordinated ionic hydrocarbon copolymers. T896,055, 3-28-72, Cl. 260-38.1.
- Long, William J., Jr., to Atlas Chemical Industries, Inc. Plasticizers for hydroxypropyl cellulose. T896,054, 3-28-72, Cl. 106-188.
- Luckenbach, Lester R.: *See*—
Snyder, Glenn M., and Luckenbach. T896,028.
- Machiele, Delwyn E. Photographic couplers. T903,025, 10-3-72, Cl. 96-100.
- Mann, Horace C., Jr. Production of urea-ammonium sulfate. T900,027, 7-25-72, Cl. 71-28.
- Mann, Horace C., Jr. Production of ammonium phosphate. T901,023, 8-8-72, Cl. 71-34.
- Marsh, William D.: *See*—
Murphy, John J., Jr., Smith, and Marsh. T900,019.
- McBrayer, Robert L. Bacteria-inhibiting urethane foams. T903,027, 10-10-72, Cl. 260-2.5.
- McCabe, John M. Coating compositions. T903,008, 10-3-72, Cl. 117-161.
- McCullough, John F., and R. C. Sheridan. Ammonium polyphosphates. T904,031, 11-21-72, Cl. 423-305.
- McGillen, William D.: *See*—
Dickert, James E., and McGillen. T900,016.
- McMillen, James M., to Mobil Oil Corp. Imbibition water-flooding process. T903,015, 10-3-72, Cl. 166-252.
- Meckstroth, Walter: *See*—
Westermann, Hans; Meckstroth, Bures, Zobel, and Bergmann. T896,030.
- Melline, Robert S. Ammonium polyphosphate solutions from super wet acid. T896,056, 3-28-72, Cl. 71-34.
- Mell, George P., to E. I. du Pont de Nemours and Co. Metal conductor having alternate layers of an aromatic polyamide enamel and an acrylic wire enamel. T904,006, 11-7-72, Cl. 117-218.
- Miller, Howard A., and R. W. Henn. Photographic elements, compositions and processes using eutectic compositions. T896,024, 3-14-72, Cl. 96-66.3.
- Millikan, Allan G., and E. J. Seus. Radiographic elements containing antihalation dyes. T904,017, 11-7-72, Cl. 96-84.
- Mitchell, Barry M. Continuous hydrogenation process. T903-003, 10-3-72, Cl. 260-583.
- Mitchell, Robert D.: *See*—
Lee, Robert G., and Mitchell. T900,018.
- Mobil Oil Corp.: *See*—
McMillen, James M. T903,015.
- Monsanto Co.: *See*—
Arnold, Robert L., and Vanderkool. T900,003.
- De So Deex, Oliver, and Fallwell. T903,001.
- Morie, Gerald P.: *See*—
Sloan, Cephas H., and Morie. T901,024.
- Mumpower, Robert C. II. Method and apparatus for forming a diagonal flow filter from cylindrical tobacco smoke filter rods. T901,014, 8-1-72, Cl. 264-109.
- Murphy, John J., Jr., W. C. Smith, and W. D. Marsh. Polyethylene. T900,019, 7-25-72, Cl. 260-878.
- Murray, Michael V.: *See*—
Helwig, Lawrence E., Murray, and Ticknor. T905,005.
- Myers, Ernest L.: *See*—
Rope, Barry S., and Myers. T896,023.
- Nadeau, Gale F., Jr.: *See*—
Zaffrann, Ralph D., and Nadeau. T896,019.
- Neal, Richard D. Acid modified polyester fibers dyed with basic dyestuffs. T900,007, 7-18-72, Cl. 8-168.
- Nealy, David L.: *See*—
Davis, Thomas G., Nealy, and Reynolds. T900,013.
- Nelson, John H., to Dairyland Food Laboratories, Inc. Concentration of animal-derived milk clotting enzymes by reverse osmosis. T901,012, 8-1-72, Cl. 195-66.
- Nield, Eric: *See*—
Gaskin, Stuart, and Nield. T904,029.
- Norton, Melvin M.: *See*—
Lee, Robert G., and Norton. T904,032.
- Lee, Robert G., and Norton. T904,033.
- Ojakaar, Leo, to E. I. du Pont de Nemours and Co. Preparation of dialkyl xanthogen disulfides. T901,006, 8-1-72, Cl. 260-455.
- Olsen, Arthur A., to General Electric Co. Automatic disconnect means for a lightning arrester. T896,041, 3-21-72, Cl. 200-48.
- Olson, Floyd C., and D. W. Hoar. Comminuted meat composition containing undenatured water-soluble lactalbumin. T896,050, 3-28-72, Cl. 99-108.
- Onorato, Joseph M.: *See*—
Welsh, Robert H., and Onorato. T905,013.
- Opperman, Chester W. X-ray film box having a monitoring radiation shield. T903,035, 10-10-72, Cl. 250-108.

- Parsons, Joseph F., to E. I. du Pont de Nemours and Co. Sandwich wire coating construction. T896,005, 3-7-72, Cl. 117-218.
- Perriens, Matthews P., and J. H. Williams, Jr., to International Business Machines Corp. Information storage and retrieval system and method. T900,006, 7-18-72, Cl. 340-172.5.
- Petropoulos, Constantine C., and J. A. Arceci. Novel pyrylium salts and uses therefor. T900,031, 7-25-72, Cl. 96-1.5.
- Phillips, Bobby M. Process for producing texturized yarn. T903,028, 10-10-72, Cl. 57-140.
- Phillips, Bobby M. Process for producing texturized yarn. T903,029, 10-10-72, Cl. 264-168.
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- Phillips, Brian R., and R. D. Hutchins, to E. I. du Pont de Nemours and Co. Process for facing a sponge-rubber carpet underlayment with a nonwoven fibrous sheet. T901,001, 8-1-72, Cl. 156-79.
- Polaroid Corp.: See—
Camello, Paul A. T903,005.
- Quinn, James M., and E. D. Swain, to E. I. du Pont de Nemours and Co. Laminar structures and packages thereof and method of manufacture. T903,012, 10-3-72, Cl. 161-227.
- Ragentik, Vlado: See—
Le Fevre, Cecil W., Regentik, Woestemeyer, and Woods. T901,009.
- Rash, Fred H.: See—
Thweatt, John G., and Rash. T900,015.
- Rauner, Frederick J., and P. B. Gilman, Jr. Polymeric spectral sensitizers for light-sensitive silver halide grains. T896,033, 3-14-72, Cl. 96-114.
- Regester, Richard F., to E. I. du Pont de Nemours and Co. Composite of polyethylene or polypropylene, an amorphous ethylene-propylene copolymer, and a fibrous alkali metal titanate. T905,010, 12-19-72, Cl. 260-41.
- Reilly, Eugene P., to E. I. du Pont de Nemours and Co. Copolymers of methyl methacrylate. T896,013, 3-7-72, Cl. 260-86.1.
- Reithel, Raymond F. Electron beam recording photographic material. T901,008, 8-1-72, Cl. 96-67.
- Reynolds, Delbert D.: See—
Hsu, Rex J., and Reynolds. T905,012.
- Reynolds, Delbert D., and B. C. Cossar. Aminomethylating agents and processes for preparing and using same. T900,001, 7-18-72, Cl. 260-244.
- Reynolds, George A., and D. G. Borden. Light-sensitive polymers containing thallated aryl groups. T903,024, 10-3-72, Cl. 96-115.
- Reynolds, George A., J. A. Vanallan, and L. E. Contols. Sensitizing dyes for electrophotographic composition and element. T904,032, 11-21-72, Cl. 96-1.6.
- Reynolds, Jefferson W.: See—
Davis, Thomas G., Nealy, and Reynolds. T900,013.
- Ricci, Vero: See—
Celak, Richard G., and Ricci. T901,002.
- Richard, Paul H., to E. I. du Pont de Nemours and Co. Frictional compositions. T896,002, 3-7-72, Cl. 117-161.
- Rogers, Arthur O.: See—
Baker, Melvin C., and Rogers. T900,025.
- Rope, Barry S., and E. L. Myers. Skin packaging and encapsulating articles supported on a plastic substrate. T896,023, 3-14-72, Cl. 206-80.
- Rose, John B.: See—
Attwood, Terence E., Rose, and Lennox. T904,027.
- Attwood, Terence E., Rose, and Lennox. T905,009.
- Rose, Robert C. Flash cooling process. T903,004, 10-3-72, Cl. 62-100.
- Royer, Dennis J.: See—
Hritz, George G., Royer, and Ziegenhain. T901,010.
- Rufino, Jose J., to E. I. du Pont de Nemours and Co. Process of modifying polycarbonamide fibers with orthophenylphenol. T896,012, 3-7-72, Cl. 8-130.1.
- Rush, Kent R. Method for protecting photographic film against aldehydes. T900,028, 7-25-72, Cl. 96-74.
- Ryan, Joseph H. Jr.: See—
King, Charles L., and Ryan. T896,036.
- Salminen, Ilmari F. Competing coupler. T904,003, 11-7-72, Cl. 96-56.4.
- Sample, Paul E.: See—
Beardwood, Bruce A., Gorton, and Sample. T904,013.
- Schmid, Ernest, to Edouard Dubied & Cie Societe Anonyme. Device for positioning a cutting edge of a cutting tool on a machine tool. T901,004, 8-1-72, Cl. 82-14.
- Schumacher, Ignatius: See—
Baker, Joseph W., and Schumacher. T896,003.
- Schuman, Leonard J., and R. T. Ertle, to Continental Oil Co. Anti-solting alumina coatings for porous surfaces. T904,025, 11-21-72, Cl. 117-138 UA.
- Schwuttke, Guenter H.: See—
Fairchild, John M., Joshi, and Schwuttke. T896,048.
- Selby, Donald W. Apparatus for recovering individual fibers from a bonded web or batt. T903,033, 10-10-72, Cl. 162-261.
- Seus, Edward J.: See—
Mullikan, Allan G., and Seus. T904,017.
- Seus, Edward J. Photosensitive elements for color diffusion transfer systems having reduced pressure sensitivity. T901,015, 8-1-72, Cl. 96-77.
- Sharp, John O., and R. G. Devaney. Polyester compositions having high dielectric constants, films thereof and shaped articles. T903,013, 10-3-72, Cl. 260-40.
- Shelley, Bernard F., and W. D. Walker. Apparatus for winding yarn. T901,005, 8-1-72, Cl. 242-18.
- Sheridan, Richard C.: See—
McCullough, John F., and Sheridan. T904,031.
- Short, Oliver A., to E. I. du Pont de Nemours and Co. Metallizing compositions containing thermofluid vehicles. T905,011, 12-19-72, Cl. 106-1.
- Shuman, David C. Blue colloidal silver imaging system. T900,010, 7-18-72, Cl. 96-50.
- Sloan, Cephas H., and G. P. Morie. Vented tobacco smoke filter containing metal oxides. T901,024, 8-8-72, Cl. 131-266.
- Smith, Winthrop C.: See—
Murphy, John J., Jr., Smith, and Marsh. T900,019.
- Snell, William A.: See—
Baron, Donald J., and Snell. T900,005.
- Snyder, Glenn M., and L. R. Luckenbach, to Landis Tool Co. Automatic plunge and blend pass control system for grinding. T896,028, 3-14-72, Cl. 51-165.77.
- Sosis, Paul, and R. D. Katstra, to Continental Oil Co. Controlled foam detergent formulation. T896,025, 3-14-72, Cl. 252-121.
- Specht, Donald P.: See—
Ford, John A., Jr., and Specht. T896,027.
- Staniland, Philip A., and M. Whale, to Imperial Chemical Industries Ltd. Aromatic polymers containing a conductive filler. T904,012, 11-7-72, Cl. 252-503.
- Starr, Frank C., Jr., to E. I. du Pont de Nemours and Co. High friction article based on a polyimide resin. T896,009, 3-7-72, Cl. 260-37.
- Stenberg, John F.: See—
Hamb, Frederick L., and Stenberg. T901,017.
- Stephens, Harris N., Jr. Pictorial parallax panoramagram including a cellulose ester hot melt thermoplastic viewing screen. T896,031, 3-14-72, Cl. 117-10.
- Stevenson, George M., to Eastman Kodak Co. High purity polyester depolymerization products from polyester scrap by complete hydrogenation. T896,001, 3-7-72, Cl. 260-617.
- Stoneham, Jeffrey R., and B. B. Adams. Battery holder. T896,007, 3-7-72, Cl. 136-173.
- Sun, Kuan H.: See—
Goldstein, Norman P., and Sun. T901,026.
- Sutherland, John D., to Westinghouse Electric Corp. Shield plug access enclosure for a nuclear reactor. T901,028, 8-15-72, Cl. 176-27.
- Swain, Edgar D.: See—
Quinn, James M., and Swain. T903,012.
- Tajb, Bernard, to Allied Chemical Corp. Scuff-resistant urethane coated fabrics. T896,018, 3-7-72, Cl. 117-76.
- Takeshita, Tsunelchi, to E. I. du Pont de Nemours and Co. Regenerative vanadium coordination catalyst process. T904,010, 11-7-72, Cl. 260-80.780.
- Taylor, John H.: See—
Kasper, George P., and Taylor. T901,019.
- Terrell, Carl L.: See—
Hufaker, James E., and Terrell. T904,019.
- Texas-U.S. Chemical Co.: See—
Long, Marlin R. T901,030.
- Thomas, David A., and C. Holstead. Light-sensitive compositions and photographic elements. T900,030, 7-25-72, Cl. 96-48.
- Thompson, Gordon W., to Du Pont de Nemours, E. I., and Co. Method of and apparatus for winding a web of material. T901,029, 8-15-72, Cl. 242-55.
- Thweatt, John G., and F. H. Rash. Process for preparing trimethylhydroquinone. T900,015, 7-25-72, Cl. 260-621.
- Ticknor, Leland B.: See—
Helwig, Lawrence E., Murray, and Ticknor. T905,005.
- Tillson, Henry C., to Hercules Inc. Polymer cross-linking. T896,029, 3-14-72, Cl. 260-79.
- Timmer, Roy C., to E. I. du Pont de Nemours and Co. Colorless polyamide compositions and shaped articles stabilized for weatherability. T901,011, 8-1-72, Cl. 260-18.
- Trent, Parker J.: See—
Johnson, Lou P., and Trent. T905,006.
- Ulbing, Cynthia G., and D. J. Beavers. Direct-positive silver halide emulsions containing substituted phenylazo-1,2,3 alpha, 7-tetrazaindene compounds. T903,026, 10-3-72, Cl. 96-107.
- United Aircraft Corp.: See—
Baron, Donald J., and Snell. T900,005.
- United States Borax & Chemical Corp.: See—
Draganov, Sa. uel M. T903,019.
- LeFevre, Cecil W., Regentik, Woestemeyer, Yorba, and Woods. T901,009.
- United States Steel Corp.: See—
Helwig, Lawrence E., Murray, and Ticknor. T905,005.
- Valentine, David L. Esters of 4-methylcyclohexanemethanol. T896,008, 3-7-72, Cl. 260-475.
- Valentine, David L., D. R. Leonard, A. D. Beeler. Plastisols of polyvinyl chloride and its copolymers. T896,039, 3-21-72, Cl. 260-23.
- Vanallan, James A.: See—
Reynolds, George A., Vanallan, and Contols. T904,032.
- Vanallan, James A., and S. C. Chang. Photosensitive composition and element employing complexes of cyanides and organoazides and method of use. T903,017, 10-3-72, Cl. 96-33.
- VanderKooi, John P.: See—
Arnold, Robert L., and VanderKooi. T900,003.
- Vernick, Barry H., to Hercules Inc. Composition comprised of ultra high molecular weight polyethylene containing carbon black. T901,021, 8-8-72, Cl. 260-41.

- Vetter, Robert J. Paper materials impregnated with polysiloxanes. T896,046, 3-21-72, Cl. 117-138.8.
- Ville, Ivan B.: See—
York, William C., and Ville. T896,011.
- Virkhaus, Rein. Photoconductive compositions and elements. T901,016, 8-1-72, Cl. 96-1.
- Walker, William D.: See—
Shelley, B. F., and Walker. T901,005.
- Wang, David, to E. I. du Pont de Nemours and Co. Reinforced polymeric film. T903,036, 10-10-72, Cl. 260-41.
- Warner-Lambert Co.: See—
Lane, George C. T904,020.
- Weaver, Max A.: See—
Elam, Edward U., and Weaver. T904,011.
- Welsh, Robert H., and J. M. Onorato, to Eastman Kodak Co. Fiber-processing procedure. T905,013, 12-19-72, Cl. 8-173.
- Westermann, Hans, W. Meckstroth, H. Bures, H. Zobel, and J. Bergmann, to Eastman Kodak Co. Apparatus for the continuous transesterification of aromatic dicarboxylic acids with diols. T896,030, 3-14-72, Cl. 23-260.
- Westinghouse Electric Corp.: See—
Borst, Ray. T901,027.
- Goldstein, Norman P., and Sun. T901,026.
- Sutherland, John D. T901,028.
- Whale, Michael: See—
Staniland, Philip A., and Whale. T904,012.
- Wielar, Jack B., II, to E. I. du Pont de Nemours and Co. Optical fiber ribbon and method of manufacture. T900,002, 7-18-72, Cl. 350-96.
- William, John V. Photographic diffusion transfer elements, film units, and methods for processing same. T900,012, 7-18-72, Cl. 96-77.
- Williams, John H., Jr.: See—
Perriens, Matthews P., and Williams. T900,006.
- Williams, Leslie A., and W. E. Lee. Photographic developer compositions and method. T896,022, 3-14-72, Cl. 96-66.3.
- Wilson, John C.: See—
Hamb, Frederick L., and Wilson. T896,033.
- Hamb, Frederick L., and Wilson. T896,034.
- Woestemeyer, Vernon W.: See—
Le Fevre, Cecil W., Regentik, Woestemeyer, and Woods. T901,009.
- Wolinski, Leon E., to E. I. du Pont de Nemours and Co. Thermoforming laminar foam structures. T896,017, 3-7-72, Cl. 264-321.
- Wood, Harry P.: See—
Hamlin, Arthur H., Kilksen, and Wood. T896,051.
- Woods, William G.: See—
Le Fevre, Cecil W., Regentik, Woestemeyer, and Woods. T901,009.
- Wright, Donald L. Fish, oyster and crustacean food comprising particular proteins derived from hydrocarbons. T896,037, 3-21-72, Cl. 99-3.
- York, William C., and I. B. Ville. Cleaning method and apparatus for removing developer from photosensitive elements. T896,011, 3-7-72, Cl. 117-37.
- Yost, Marshall E.: See—
Dunham, Kenneth R., and Yost. T900,009.
- Young, David V.: See—
Kurz, Richard K., and Young. T904,022.
- Young, Howard S.: See—
Dietl, Hans K., and Young. T903,007.
- Yunan, Malak E. Process for recovering fibers. T901,031, 8-15-72, Cl. 260-2.5.
- Zaffrann, Ralph D., and G. F. Nadeau, Jr. Lithographic reproductions. T896,019, 3-7-72, Cl. 96-33.
- Ziegenhain, William C.: See—
Hritz, George G., Royer, and Ziegenhain. T901,010.
- Zimmerman, Gerald H., to Hercules Inc. Wire and cable wrapping material. T896,052, 3-28-72, Cl. 161-123.
- Zobel, Hans-Ernst: See—
Westermann, Hans, Meckstroth, Bures, Zobel, and Bergmann. T896,030.
- Zorn, Bruno: See—
Balle, Gerhard, Keberle, Kowalewski, and Zorn. T900,008.

1972

LIST OF DISCLAIMERS AND DEDICATIONS

- Albertson, Clarence E., Villa Park, Ill. Dedication filed May 24, 1972, by the assignee, Borg-Warner Corporation. No. 3,471,384; v. 901; p. 775.
- Allen, Herbert, Houston, Tex. Disclaimer filed Apr. 12, 1972, by the assignee, Cameron Iron Works, Inc. No. 2,934,313; v. 900; p. 410.
- Anderson, James R., Winnetka, Ill. Disclaimer filed Oct. 27, 1971, by the assignee, La Salle Street Press, Incorporated. No. 3,136,248; v. 896; p. 13.
- Ando, Masao, Yokohamashi, Japan. Disclaimer filed June 22, 1971, by the assignee, Chisso Corporation. No. 3,629,551; v. 902; p. 379.
- Ando, Masao, Yokohamashi, Japan. Disclaimer filed Aug. 10, 1972, by the assignee, Chisso Corporation. No. 3,632,976; v. 903; p. 2.
- Angell, Richard G., Jr., Highland Park, N.J. Disclaimer filed Oct. 15, 1971, by the assignee, Union Carbide Corporation. No. 3,268,636; v. 895; p. 780.
- Angell, Richard G., Jr., Bridgewater Township, Somerville, N.J. Disclaimer filed Oct. 15, 1971, by the assignee, Union Carbide Corporation. No. 3,436,446; v. 895; p. 780.
- Ansel, Robert E., and Charles M. Taubman, Cook County, Ill. Disclaimer filed Dec. 17, 1971, by the assignee, De Soto, Inc. No. 3,540,886; v. 899; p. 411.
- Babcock, David Lockman, and Hubert Nerwin, Rochester, N.Y. Disclaimer filed June 5, 1972, by the assignee, Eastman Kodak Company. No. 3,552,283; v. 901; p. 775.
- Barr, Charles R. and John Williams, and Keith E. Whitmore, Rochester, N.Y. Disclaimer filed Nov. 5, 1971, by the assignee, Eastman Kodak Company. No. 3,227,554; v. 896; p. 13.
- Barth, Bruce P., Round Brook, and Edward G. Hendricks, Belle Mead, N.J. Disclaimer filed Oct. 26, 1971, by the assignee, Union Carbide Corporation. No. 3,446,654; v. 904; p. 136.
- Batzold, John S., Westfield, N.J. Disclaimer filed Aug. 12, 1970, by the assignee, Esso Research and Engineering Company. No. 3,615,836; v. 896; p. 828.
- Bauman, Donald Dennis, Los Gatos, Calif. Disclaimer filed Jan. 20, 1972, by the assignee, International Business Machines Corporation. No. 3,566,281; v. 899; p. 1234.
- Beckwith, Sterling, Libertyville Township, Ill. Disclaimer filed Apr. 10, 1972, by the assignee, Kysor Industrial Corporation. No. 3,130,559; v. 901; p. 4.
- Beckwith, Sterling, Libertyville Township, Ill. Disclaimer filed Apr. 10, 1972, by the assignee, Kysor Industrial Corporation. No. 3,310,559; v. 899; p. 4.
- Bender, Joseph L., Wheeling, and Lynn A. Williams, Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company, Reissue No. 26,531; v. 897; p. 1134.
- Bender, Joseph L., Wheeling, and Lynn A. Williams, Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,214,360; v. 896; p. 828.
- Bender, Joseph L., Wheeling, and Lynn A. Williams, Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,309,303; v. 897; p. 5.
- Bender, Joseph L., Wheeling, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,458,424; v. 905; p. 4.
- Bernstein, Jack, and Kathryn Alice Losee, New Brunswick, N.J. Disclaimer and dedication filed June 29, 1972, by the inventors; the assignee, E. R. Squibb & Sons, Inc., assenting. No. 3,660,466; v. 902; p. 804.
- Bethke, Dale L., West Covina, Calif. Disclaimer filed Mar. 8, 1972, by the inventor. No. 3,606,566; v. 899; p. 411.
- Bhatt, Jayantkumar, Ottawa, Ontario, John George Mlacak, Kanata, Ontario, and Thomas Arthur Winlow, Ottawa, Ontario, Canada. Disclaimer filed Oct. 10, 1972, by the assignee, Northern Electric Company Limited. No. 3,662,117; v. 905; p. 687.
- Biland, Hans Rudolf, Basel, Christian, Luethi, Muenchenstein, and Max Duennenberger, Frenkendorf, Switzerland. Disclaimer filed Apr. 11, 1972, by the inventors and the assignee, Ciba Limited, assenting. No. 3,293,249; v. 905; p. 686.
- Blair, Richard W., Arlington Heights, Ill. Dedication filed Mar. 16, 1972, by the assignee, Chicago Rawhide Manufacturing Company. No. 3,291,493; v. 900; p. 1226.
- Bockelmann, Victor G., El Centro, Calif. Disclaimer filed Jan. 26, 1972, by the assignee, United States of America as represented by the Secretary of the Navy. No. 3,434,681; v. 900; p. 1226.
- Bollinger, Edgar Dare, Spartanburg, S.C. Dedication filed June 22, 1971, by the assignee, Deering Milliken Research Corporation. No. 3,325,989; v. 899; p. 1232.
- Bonga, Benno Ibo, Onex, Geneva, Switzerland. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,536,603; v. 897; p. 386.
- Borden, John V., Washington, D.C. Disclaimer filed Nov. 26, 1971, by the inventor. No. 3,324,553; v. 896; p. 13.
- Bottomley, Anthony, Maplewood, N.J., and David C. Bottomley, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,283,788; v. 897; p. 4.
- Bottomley, Anthony, Maplewood, N.J. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,416,299; v. 897; p. 4.
- Boultinghouse, Harold D., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,369,435; v. 897; p. 4.
- Boultinghouse, Harold D., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,431,875; v. 897; p. 386.
- Boultinghouse, Harold D., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,473,206; v. 897; p. 387.
- Boultinghouse, Harold D., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,490,664; v. 897; p. 387.
- Boultinghouse, Harold D., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,491,928; v. 897; p. 387.
- Brecker, Lawrence Robert, Brooklyn, N.Y. Disclaimer filed June 19, 1972, by the assignee, Argus Chemical Corporation. No. 3,565,931; v. 902; p. 378.
- Bright, Richard L., Adamsburg, and George H. Royer, Pittsburgh, Pa. Disclaimer filed Nov. 10, 1971, by the assignee, Westinghouse Electric Corporation. No. 2,783,384; v. 905; p. 686.
- Briskin, Theodore S., and Geoffrey R. Ward, Beverly Hills, Calif. Disclaimer and dedication filed Apr. 8, 1971, by the assignee, Sutton Research Corporation. No. 3,612,063; v. 897; p. 764.
- Brooks, Winfred M., West Orange, and Sigurd M. Moberg, Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,796,277; v. 899; p. 411.
- Brooks, Winfred M., West Orange, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,847,675; v. 900; p. 410.
- Brooks, Winfred M., West Orange, and Sigurd M. Moberg, Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,913,274; v. 900; p. 1226.
- Brooks, Winfred M., West Orange, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 3,130,509; v. 900; p. 1226.
- Brooks, Winfred M., West Orange, and Sigurd M. Moberg, East Orange, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 3,265,426; v. 899; p. 411.
- Brown, Claude V., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,423,888; v. 897; p. 386.
- Brown, Claude V., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,511,901; v. 897; p. 387.
- Brown, Claude V., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,596,816; v. 897; p. 387.
- Brunns, Norbert A., Palatine, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,311,549; v. 897; p. 5.
- Brunns, Norbert A., Palatine, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,288,698; v. 897; p. 4.
- Buker, Paul S., Richard D. Shepard, and David P. Wenaas, Middletown, Ohio. Disclaimer filed Nov. 4, 1971, by the assignee, Armco Steel Corporation. No. 3,606,418; v. 896; p. 14.
- Burton, Charles G., Lewiston, N.Y. Disclaimer filed Feb. 17, 1972, by the inventor, the assignee, Chisholm-Ryder Company, Inc. No. 3,360,913; v. 900; p. 1226.
- Butler, Kenneth, Old Lyme, Conn. Dedication filed Mar. 2, 1972, by the assignee, Pfizer Inc. No. 3,631,056; v. 900; p. 410.
- Calhoun, Clinton W., Jr., Henrico County, and Frank B. Hart, Jr., Richmond, Va., and Lloyd C. Eberhard, Jr., Louisville, Ky. Dedication filed May 26, 1972, by the assignee, Reynolds Metals Company. No. 3,542,621; v. 902; p. 804.
- Case, John William, Norman Frederick Crowder, and Wilfred Arthur Stephen White, Runcorn, England. Disclaimer filed Dec. 15, 1969, by the assignee, Imperial Chemical Industries Limited. No. 3,575,686; v. 902; p. 378.
- Castic, William, Elk Grove Village, Ill. Disclaimer filed July 27, 1972, by the assignee, Harvey Hubbell Incorporated. No. 3,598,897; v. 904; p. 136.

Chen, Vallon Wei-Loong, Edison, N.J., and Hiroshi Amemiya, Morrisville, Pa. Disclaimer filed Mar. 24, 1972, by the assignee, RCA Corporation. No. 3,638,039; v. 904; p. 136.

Chesnut, Frank K., Jr., Middleport, and Laurence G. Mayne, Corfu, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,936,734; v. 895; p. 1217.

Chow, Alfred W., Merchantville, N.J., and John R. E. Hoover, Glenside, Pa. Disclaimer filed July 3, 1972, by the assignee, Smith Kline & French Laboratories. No. 3,197,466; v. 901; p. 1512.

Clayton, Richard W., Toms River, and Arnel E. Jackson, Audubon, N.J. Disclaimer filed July 27, 1972, by the assignee, Radio Corporation of America. No. 3,092,345; v. 904; p. 136.

Clippinger, Everett, San Rafael, and Bernard F. Mulasky, Fairfax, Calif. Disclaimer filed Mar. 26, 1971, by the assignee, Chevron Research Company. No. 3,631,215; v. 897; p. 764.

Cordero, Humberto R., Endicott, N.Y. Dedication filed Mar. 3, 1972, by the assignee, International Business Machines Corporation. No. 3,432,810; v. 902; p. 378.

Cramer, Charles B., Murrysville, Pa. Dedication filed May 26, 1972, by the assignee, Aluminum Company of America. No. 3,031,299; v. 901; p. 775.

Cushman, Robert Holbrook, Princeton, N.J. Disclaimer filed Jan. 24, 1972, by the assignee, Western Electric Company, Incorporated. No. 3,608,809; v. 899; p. 411.

Dargene, Carl J., Rockford, Ill. Disclaimer filed July 24, 1972, by the assignee, Amerock Corporation. No. 3,590,419; v. 904; p. 136.

Davis, William Eugene, and George Peter Lee, Indianapolis, Ind. Disclaimer filed Apr. 10, 1972, by the assignee, Radio Corporation of America. No. 3,399,277; v. 900; p. 410.

De Haas, Gerrit G., and Charles J. Lang, Longview, Wash. Disclaimer filed Apr. 3, 1972, by the assignee, Weyerhaeuser Company. No. 3,553,076; v. 900; p. 411.

Draves, John G., Dunkirk, Maurice R. Garrison, Hamburg, and Edward J. Skiba, Williamsville, N.Y. Disclaimer filed Apr. 12, 1972, by the assignee, Robert C. Hagner. No. 3,593,782; v. 899; p. 1234.

Duennenberger, Max, Frenkendorf, Basel-Land, Hans Rudolf Biland, Basel, and Christian Luethi, Muenchenstein, Switzerland. Disclaimer filed Apr. 11, 1972, by the inventors, the assignee, Ciba-Geigy AG, assenting. No. 3,270,016; v. 904; p. 136.

Duennenberger, Max, Frenkendorf, Hans Rudolf Biland, Basel, Christian Luethi, Muenchenstein, and Max Schellenbaum, Rheien, Switzerland. Disclaimer filed Apr. 11, 1972, by the inventors and the assignee, Ciba-Geigy AG, assenting. No. 3,293,247; v. 905; p. 686.

Duncan, George I., and Robert D. Mees, Fort Wayne, Ind. Dedication filed Sept. 22, 1971, by the assignee, General Electric Company. No. 3,488,316; v. 896; p. 828.

Eckert, John Prosper, Jr., and John W. Mauchly, Philadelphia, Pa. Disclaimer filed Nov. 3, 1971, by the assignee, Sperry Rand Corporation. No. 2,629,827; v. 896; p. 13.

Economou, Steven G., Wilmette, Ill. Disclaimer filed Dec. 27, 1971, by the assignee, Hollister Incorporated. No. 3,556,101; v. 898; p. 369.

Eddy, William R., Kansas City, Kans. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,395,525; v. 897; p. 4.

Edgerton, Harold E., Belmont, Mass. Dedication filed Apr. 13, 1972, by the assignee, Honeywell Inc. No. 3,033,988; v. 902; p. 378.

Elbert, Donald L., Gulf Breeze, and Robert T. Wright, Pensacola Beach, Fla. Disclaimer filed Jan. 5, 1971, by the assignee, Monsanto Company. No. 3,565,910; v. 905; p. 686.

Engelbach, Thomas J., Middletown, N.J. Disclaimer filed June 2, 1972, by the assignee, Avery Products Corporation. No. 3,343,978; v. 900; p. 410.

Erath, Edward H., Los Angeles, Calif. Disclaimer filed Oct. 26, 1971, by the assignee, McDonnell Douglas Corporation. No. 3,304,739; v. 896; p. 13.

Eubanks, John M., Greensboro, N.C. Disclaimer filed Sept. 28, 1971, by the assignee, Bell Telephone Laboratories, Inc. No. 3,439,286; v. 894; p. 67.

Everard, Joseph J., Mantowoc, Wis. Disclaimer filed May 26, 1972, by the assignee, AMF Incorporated. No. 3,281,547; v. 901; p. 775.

Eversdyk, Martin, Bedford Heights, Ohio. Disclaimer filed Mar. 23, 1972, by the assignee, Oglebay Norton Company. No. 3,602,287; v. 899; p. 4.

Ewin, James C., Holmdel, N.J. Disclaimer filed Feb. 23, 1972, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,532,827; v. 900; p. 1227.

Fath, Joseph, Barrington, R.I., and John M. Kolyer, Seekonk, Mass. Dedication filed Mar. 29, 1972, by the assignee, Teknor Apex Company. No. 3,270,063; v. 898; p. 369.

Feather, Landis E., Sharon, and Paul Voytik, Sharpsville, Pa. Disclaimer filed June 8, 1972, by the assignee, Westinghouse Electric Corporation. No. 3,585,552; v. 901; p. 775.

Fields, David Palmer, Wilmington, Del. Disclaimer filed Sept. 3, 1971, by the assignee, E. I. du Pont de Nemours and Company. No. 3,418,147; v. 894; p. 1252.

Fisher, Gene A., Adolfo M. Guzman, John P. Harris, and Paul Y. Hu, Boulder, Colo. Disclaimers filed Sept. 23, 1971, by the assignee, International Business Machines Corporation. No. 3,543,068; v. 894; p. 67.

Forster, Wolfgang C., Middletown, N.Y. Disclaimer filed Feb. 16, 1972, by the assignee, Reichhold Chemicals, Inc. No. 3,470,118; v. 900; p. 411.

Foster, Philip B., Phoenix, Richard A. Glssel, Tempe, and Walter C. Seelbach, Scottsdale, Ariz. Disclaimer filed May 19, 1972, by the assignee, Motorola, Inc. No. 3,444,395; v. 905; p. 4.

Frank, Gerard A., Allentown, and Karl A. Schmuldt, Emmaus, Pa. Disclaimer filed Mar. 29, 1972, by the assignee, Western Electric Company, Inc. No. 3,083,595; v. 899; p. 411.

Fujinaga, Motosaku, Tokyo, Japan. Dedication filed Nov. 10, 1972, by the assignee, Marifarms, Incorporated. No. 3,477,406; v. 905; p. 687.

Garaballo, Romano, Brooklyn, N.Y. Disclaimer filed Feb. 9, 1972, by the assignee, Metropolitan Petroleum Petrochemicals Co., Inc. No. 3,422,834; v. 901; p. 4.

Garaballo, Romano, Brooklyn, N.Y. Disclaimer filed Feb. 9, 1972, by the assignee, Metropolitan Petroleum Petrochemicals Co., Inc. No. 3,425,435; v. 901; p. 4.

Gary, Simon P., Villa Park, Ill. Dedication filed Dec. 28, 1971, by the assignee, Anocut Engineering Company. No. 3,245,891; v. 897; p. 4.

Gates, Robert L., Medina, and Kenneth P. Dorschner, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, Food Machinery and Chemical Corporation. No. 2,865,730; v. 905; p. 687.

Gates, Robert L., Medina, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,898,266; v. 895; p. 1217.

Gaudry, Paul Emile, Laval des Rapides, Quebec, Canada. Disclaimer filed Sept. 5, 1972, by the assignee, Consolidated Foods Corporation. No. 3,666,258; v. 903; p. 2.

Gedde, Burton H., III, Wyoming, and Charles H. Brain, Mount Healthy, Ohio. Dedication filed Nov. 5, 1971, by the assignee, The Procter & Gamble Company. No. 3,600,319; v. 895; p. 1613.

Gentry, Fins E., and Bernard R. Tuft, Skaneateles, N.Y. Disclaimer filed Aug. 15, 1972, by the assignee, General Electric Company. No. 3,284,680; v. 902; p. 804.

Gerlach, Erwin, Stockholm, Sweden. Disclaimer filed Nov. 8, 1971, by the assignee, Eastman Kodak Company. No. 3,402,007; v. 895; p. 1614.

Gilbert, Dixie E., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,460,416; v. 897; p. 386.

Gilles, Jack C., Shaker Heights, Ohio. Disclaimer filed Feb. 3, 1972, by the assignee, The B. F. Goodrich Company. No. 3,627,725; v. 902; p. 804.

Gilman, Harry S., Marblehead, Mass. Disclaimer filed Dec. 2, 1971, by the inventor. No. 3,525,171; v. 896; p. 14.

Giunta, John A., Long Branch, N.J. Disclaimer filed Dec. 6, 1971, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,579,198; v. 896; p. 14.

Graham, John W., Kogasbrug, Republic of South Africa. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,103,482; v. 896; p. 418.

Grahn, Arne Y., Granby, Conn. Disclaimer filed Apr. 10, 1972, by the assignee, The Poly-Choke Company, Incorporated. No. 3,556,889; v. 900; p. 411.

Greene, Max E., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,302,501; v. 897; p. 4.

Greene, Max E., Spartanburg, S.C. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,566,735; v. 897; p. 387.

Greene, Max E., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,478,142; v. 897; p. 387.

Greene, Max E., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,577,724; v. 897; p. 387.

Hadler, Bartholdt C., and Earl L. Pelton, Midland, Mich. Disclaimer filed Mar. 2, 1972, by the assignee, The Dow Chemical Company. No. 2,810,676; v. 899; p. 1233.

Hammel, Wallace W., Jr., Chattanooga, Tenn. Disclaimer filed May 22, 1972, by the assignee, The Singer Company. No. 3,103,187; v. 904; p. 136.

Hamner, Glen P., Baton Rouge, and Ralph B. Mason, Denham Springs, La. Disclaimer filed June 11, 1971, by the inventors; the assignee, Esso Research and Engineering Company, assenting. No. 3,625,880; v. 902; p. 804.

Hancock, John, Leeds, and Albert Westerman, Normanton, England. Disclaimer filed May 4, 1971, by the assignee, Geo. Bray & Company Limited. No. 3,630,649; v. 897; p. 764.

Hansen, Roger L., Minnetonka Village, Minn. Disclaimer filed Mar. 15, 1972, by the inventor. No. 3,498,689; v. 899; p. 1234.

Harding, George D., and Howard L. Storm, Syracuse, N.Y. Dedication filed Jan. 12, 1972, by the assignee, General Electric Company. No. 3,475,651; v. 899; p. 1232.

Harrison, George C., Roseville, and Lester G. Axdahl, Maplewood, Minn. Disclaimer filed May 25, 1972, by the assignee, Minnesota Mining and Manufacturing Company. No. 3,201,136; v. 901; p. 775.

Hart, Robert F., Downers Grove, Ill. Disclaimer filed Feb. 14, 1972, by the inventor and the assignee, General Motors Corporation. No. 3,572,860; v. 905; p. 4.

Hatch, Seymour A., Forest Park, James P. Morley, Morton Grove, and Richard W. Blair, Arlington Heights, Ill. Dedication filed Mar. 16, 1972, by the assignee, Chicago Rawhide Manufacturing Co. No. 3,291,494; v. 900; p. 1226.

Hawkins, Jerry Marvin, Lake Jackson, Tex. Disclaimer filed Apr. 22, 1971, by the assignee, The Dow Chemical Company. No. 3,634,827; v. 897; p. 1135.

Hedrick, Ross M., St. Louis, Mo., and David T. Mowry, Yokohama, Japan. Disclaimer filed Sept. 20, 1971, by the assignee, Monsanto Company. No. 3,637,491; v. 903; p. 2.

Hefron, Charles B., Metuchen, N.J. Dedication filed Mar. 16, 1972, by the assignee, Westinghouse Electric Corporation. No. 3,437,877; v. 905; p. 4.

Helm, Charles E., Newfield, N.Y., and Michael A. Schober, Rosemont, Ill. Dedication filed Jan. 21, 1972, by the assignee, Borg-Warner Corporation. No. 3,390,748; v. 897; p. 5.

Henderson, William Ernest, Lockport, Ill. Dedication filed May 24, 1971, by the assignee, Union Carbide Corporation. No. 2,890,552; v. 899; p. 411.

Herzhoff, Peter, Leverkusen, Hans Gref, Cologne-Stammheim, Fritz Maus, Cologne-Flittard, Willi Wasser, Leverkusen, Kurt Browatzki, Opladen, Josef Friedsam, Langenfeld, and Wolfgang Schwelber, Leverkusen, Germany. Disclaimer filed May 10, 1972, by the assignee, Agfa-Gevaert Aktiengesellschaft. No. 3,663,292; v. 901; p. 1512.

Holland, Francis H., Billings, Mont. Disclaimer filed Mar. 21, 1972, by the inventor. No. 3,616,553; v. 900; p. 1227.

Horgan, William J., Jr., Pittsburgh, Pa. Disclaimer filed Nov. 26, 1971, by the assignee, PPG Industries, Inc. No. 3,336,707; v. 895; p. 1614.

Huff, Herbert G., Royal Oak, and Donald J. Shelly, Westland, Mich. Disclaimer filed Nov. 18, 1971, by the assignee, White Consolidated Industries, Inc. No. 3,433,213; v. 901; p. 4.

Hughes, James K., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,541,197; v. 897; p. 387.

Hughes, James K., and Jake E. Williams, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,548,048; v. 897; p. 387.

Ingram, William T., Whitestone, N.Y. Dedication filed Mar. 14, 1972, by the assignee, Monsanto Enviro-Chem Systems, Inc. No. 2,992,986; v. 899; p. 1232.

Ipsen, Harold N., Rockford, Ill. Disclaimer filed Nov. 5, 1971, by the assignee, Alcoa Standard Corporation. No. 3,301,541; v. 896; p. 13.

Jacobs, Edward C., San Carlos, Calif. Disclaimer and dedication filed July 19, 1971, by the inventor. Design No. 219,776; v. 894; p. 67.

Jaworski, Ernest G., Olivette, and Gino J. Marco, Webster Groves, Mo. Disclaimer filed Jan. 18, 1971, by the assignee, Monsanto Company. No. 3,592,917; v. 897; p. 764.

Johnson, Oscar H., South Charleston, and Allan M. Harvey, Charleston, W. Va., and Harry West, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,758,955; v. 896; p. 13.

Johnston, Mack S., Rolling Hills, Calif. Disclaimer filed Apr. 13, 1972, by the assignee, Draft Systems, Inc. No. 3,353,724; v. 902; p. 804.

Johnston, Mack S., Kallispell, Mont. Disclaimer filed Apr. 13, 1972, by the assignee, Draft Systems, Inc. No. 3,435,997; v. 902; p. 804.

Johnston, Mack S., Rolling Hills, Calif. Disclaimer filed Apr. 13, 1972, by the assignee, Draft Systems, Inc. No. 3,497,114; v. 902; p. 804.

Johnston, Mack S., Rolling Hills, Calif. Disclaimer filed Apr. 13, 1972, by the assignee, Draft Systems, Inc. No. 3,591,058; v. 904; p. 136.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,945,780; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,946,718; v. 895; p. 780.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,955,069; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,955,070; v. 895; p. 1217.

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Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,960,431; v. 895; p. 1217.

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Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,370; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,371; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,372; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,373; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,374; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,375; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,376; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,377; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,378; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,379; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,380; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,381; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,382; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,383; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,384; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,385; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,386; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,387; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,388; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,389; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,390; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,391; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,392; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,393; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,394; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,395; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,396; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,397; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,398; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,399; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,400; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,401; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,402; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,403; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,404; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,405; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,406; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,407; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,408; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,409; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,410; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,411; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,412; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,413; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,414; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,415; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,416; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,417; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,418; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,419; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,420; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,421; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,422; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,423; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,424; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,425; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,426; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,427; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,428; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,429; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,430; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,431; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,432; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,961,433; v. 895; p. 1217.

Jones, Howard A., and John A. Garman, Baltimore, Md., and Berton C. Dickinson, Lyndonville, N.Y. Dedication filed Nov. 4,

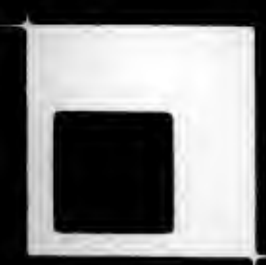
- Lohman, Robert D., Princeton, N.J. Disclaimer filed July 21, 1972, by the assignee, Radio Corporation of America. No. 2,974,238; v. 905; p. 4.
- Long, George E., Monroe, and Howard G. Anson, Seattle, Wash. Disclaimer filed Jan. 17, 1972, by the inventors. No. 3,537,363; v. 896; p. 14.
- Loomes, William Charles, and Arthur James Marrs, Derby, and Peter Heffernan, Carlisle, Cumberland, England. Disclaimer filed Dec. 28, 1971, by the assignee, Courtaulds Limited. No. 3,581,487; v. 896; p. 828.
- Lorang, Malcolm M., Garden Grove, Calif. Disclaimer filed Dec. 13, 1971, by the assignee, The Magnavox Company. No. 3,515,803; v. 900; p. 814.
- Luhrs, Otto R., Boulder, Colo. Disclaimer and dedication filed Aug. 28, 1972, by the assignee, International Business Machines Corporation. No. 678,220; v. 905; p. 686.
- Lusk, Dudley T., Westmont, Ill. Disclaimer filed Nov. 12, 1971, by the assignee, Chicago Bridge & Iron Co. No. 3,406,522; v. 895; p. 1614.
- MacMillan, Charles W., Rock Island, Ill. Disclaimer filed Sept. 23, 1971, by the assignee, Applied Power Industries, Inc. No. 3,393,455; v. 894; p. 4.
- Maitlen, Eldon Gene, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,970,939; v. 895; p. 1217.
- Malkowski, Leonard R., La Grange, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,130,140; v. 896; p. 828.
- Malkowski, Leonard R., La Grange, and Sigmund H. Bielak, Downers Grove, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,563,876; v. 897; p. 1134.
- Mallory, Glenn O., Jr., Inglewood, and Donald W. Baubrand, Temple City, Calif. Disclaimer filed Mar. 1, 1971, by the assignee, Allied Research Products, Inc. No. 3,627,545; v. 897; p. 764.
- Marotta, Ralph, St. Louis, Mo. Disclaimer filed Apr. 3, 1972, by the assignee, Monsanto Company. No. 3,525,689; v. 904; p. 136.
- Marsl, Joseph A., Baldwin Park, Calif. Disclaimer filed Oct. 10, 1972, by the assignee, Borg-Warner Corporation. No. 3,638,957; v. 905; p. 686.
- Masters, John E., and Darrell D. Hicks, Louisville, Ky. Disclaimer filed Mar. 16, 1972, by the assignee, Celanese Coatings Company. No. 3,376,272; v. 899; p. 411.
- Matke, Charles F., Fanwood, N.J. Disclaimer filed Feb. 11, 1972, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,108,159; v. 900; p. 1226.
- Maxey, Frank S., Akron, Ohio. Dedication filed Dec. 20, 1971, by the assignee, The Goodyear Tire & Rubber Company. No. 3,576,911; v. 900; p. 814.
- McAdam, William E., Jr., Thousand Oaks, Calif. Disclaimer filed Feb. 10, 1972, by the assignee, Hughes Aircraft Company. No. 3,575,085; v. 899; p. 411.
- Meiges, Frederick J., Battle Creek, Mich. Dedication filed Apr. 14, 1972, by the inventor, Reissue No. 26,759; v. 899; p. 4.
- Metcalfe, Frederick S., Columbus, Ohio. Disclaimer filed Nov. 10, 1971, by the assignee, Westinghouse Electric Corporation. No. 3,552,470; v. 895; p. 1614.
- Milligan, Terry W., Belmont, and Richard W. Young, Wellesley Hills, Mass. Disclaimer filed Mar. 29, 1972, by the assignee, Polaroid Corporation. No. 3,573,042; v. 899; p. 411.
- Milligan, Terry W., Belmont, and Richard W. Young, Wellesley Hills, Mass. Disclaimer filed Mar. 29, 1972, by the assignee, Polaroid Corporation. No. 3,576,626; v. 900; p. 814.
- Mittermaier, Armin F., and Lowell M. Mason, Fort Wayne, Ind. Dedication filed Sept. 22, 1971, by the assignee, General Electric Company. No. 3,513,523; v. 896; p. 828.
- Miyamura, Mitsutake, Tokyo, Japan. Dedication filed Nov. 10, 1972, by the assignee, Marifarms, Incorporated. No. 3,473,509; v. 905; p. 687.
- Moeborg, Sigurd M., Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,772,909; v. 899; p. 411.
- Moeborg, Sigurd M., Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,899,230; v. 899; p. 411.
- Moeborg, Sigurd M., Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,902,308; v. 900; p. 410.
- Moeborg, Sigurd M., Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,912,269; v. 900; p. 410.
- Moeborg, Sigurd M., Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,978,705; v. 899; p. 1232.
- Moeborg, Sigurd M., Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,978,706; v. 899; p. 1232.
- Moeborg, Sigurd M., Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 2,980,462; v. 900; p. 410.
- Moeborg, Sigurd M., Pompton Plains, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 3,170,830; v. 899; p. 411.
- Moeborg, Sigurd M., East Orange, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 3,175,938; v. 899; p. 411.
- Moeborg, Sigurd M., East Orange, N.J. Dedication filed Feb. 9, 1972, by the assignee, E. J. Brooks Company. No. 3,278,214; v. 899; p. 411.
- Moeborg, Theodore J., Hartford, Wis. Disclaimer filed Feb. 10, 1972, by the assignee, Chrysler Corporation. No. 3,581,702; v. 900; p. 1227.
- Moffatt, Elbert Marston, Glastonbury, Conn. Disclaimer filed Jan. 17, 1972, by the assignee, United Aircraft Corporation. No. 3,405,559; v. 900; p. 1226.
- Molenaar, Lester V., Willmar, Minn. Disclaimer filed Aug. 18, 1972, by the inventor, Design No. 213,385; v. 905; p. 4.
- Moodey, Hannah C., Lancaster, Pa. Disclaimer filed Jan. 14, 1972, by the assignee, RCA Corporation. No. 2,957,106; v. 899; p. 1234.
- More, Ralph W., Hagerstown, Md., and Joseph E. Bowling, Jr., Waynesboro, Pa. Disclaimer filed Mar. 17, 1972, by the assignee, The Carborundum Company. No. 3,197,920; v. 899; p. 411.
- Morley, James P., Morton Grove, Ill. Dedication filed Mar. 16, 1972, by the assignee, Chicago Rawhide Mfg. Company. No. 3,241,844; v. 899; p. 411.
- Nelson, Thomas F., Stratford, Conn. Dedication filed Oct. 16, 1972, by the assignee, General Electric Company. No. 3,566,887; v. 905; p. 687.
- Newin, Hubert, Rochester, N.Y. Disclaimer filed Feb. 14, 1972, by the assignee, Eastman Kodak Company. No. 3,615,541; v. 900; p. 1227.
- Newton, John D., Kingston, N.Y. Disclaimer filed Mar. 24, 1972, by the assignee, International Business Machines Corporation. No. 3,629,853; v. 900; p. 814.
- Nicholson, Denzel Allan, Springfield Township, Hamilton County, Ohio. Dedication filed Mar. 8, 1972, by the assignee, The Procter & Gamble Company. No. 3,649,722; v. 899; p. 411.
- Nouveau, Henry, Saint Germain-les-Corbels, Seine et Oise, France. Disclaimer filed July 15, 1971, by the assignee, Societe Anonyme Produits Metallurgie Doitau S.A. No. 3,582,309; v. 894; p. 1252.
- Odum, Herbert G., Oakland, Calif. Dedication filed Jan. 3, 1972, by the assignee, Ford Industries, Inc. No. 3,542,964; v. 901; p. 4.
- Odum, Martin A., Oakland, Calif. Dedication filed Jan. 3, 1972, by the assignee, Ford Industries, Inc. No. 3,268,666; v. 900; p. 814.
- Odum, Martin A., Oakland, Calif. Dedication filed Jan. 3, 1972, by the assignee, Ford Industries, Inc. No. 3,301,961; v. 899; p. 411.
- Odum, Martin A., Oakland, Calif. Dedication filed Jan. 3, 1972, by the assignee, Ford Industries, Inc. No. 3,409,741; v. 900; p. 814.
- Otto, Ferdinand P., Woodbury, N.J. Disclaimer filed Mar. 1, 1972, by the inventor, the assignee, Mobil Oil Corporation, consenting. No. 3,368,972; v. 905; p. 4.
- Otto, Ferdinand P., Woodbury, N.J. Disclaimer filed Oct. 22, 1971, by the assignee, Mobil Oil Corporation. No. 3,368,972; v. 896; p. 13.
- Owens, John Edward, Wilmington, Del. Disclaimer and dedication filed Nov. 11, 1971, by the assignee, E. I. du Pont de Nemours and Company. No. 3,068,528; v. 896; p. 14.
- Painton, Richard Clarence, and Clarence Albert Burke, Rochester, N.Y. Disclaimer filed Dec. 7, 1971, by the assignee, Eastman Kodak Company. No. 3,441,761; v. 896; p. 13.
- Panissidi, Hugo A., Peekskill, N.Y. Disclaimer filed Apr. 10, 1972, by the assignee, International Business Machines Corporation. No. 3,495,535; v. 900; p. 1226.
- Pastor, Sheldon Lee, Chicago, Carl W. Claras, Western Springs, Robert J. Moore, La Grange Highlands, Rudolph A. Rom, Berwyn, and Myron Zarr, Chicago, Ill. Disclaimer filed Sept. 29, 1972, by the assignee, Minnesota Mining and Manufacturing Company, consenting. No. 3,149,797; v. 905; p. 686.
- Perry, James H., Worcester, Mass. Disclaimer filed May 24, 1972, by the assignee, Norton Company. No. 3,612,413; v. 902; p. 804.
- Petroff, Merlin O., Grayslake, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,433,728; v. 897; p. 5.
- Pfau, Jean, Geneva, and Heinz Rhyner, Meyrin-Geneva, Switzerland. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,496,088; v. 897; p. 386.
- Pfau, Jean, Geneva, Heinz Rhyner, Meyrin-Geneva, and Georges Marendaz, Geneva, Switzerland. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,520,791; v. 897; p. 386.
- Phillips, Bernard C., Toledo, Ohio. Dedication filed July 3, 1972, by the assignee, Borg-Warner Corporation. No. 3,275,306; v. 902; p. 378.
- Planfetti, John A., Charleston, and Oren F. Williams and James Forrest Allen, South Charleston, W. Va. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,786,009; v. 896; p. 13.
- Pink, Harold E., and Ronald G. Daringer, Cambridge, Md. Disclaimer filed Feb. 10, 1972, by the assignee, Cambridge Wire Cloth Company. No. 3,559,836; v. 899; p. 1234.
- Popeil, Samuel J., Chicago, Ill. Disclaimer filed Aug. 6, 1972, by the assignee, Popeil Brothers, Inc. No. 3,614,381; v. 902; p. 804.
- Post, Donald P., Palatine, Ill. Disclaimer filed Dec. 30, 1971, by the assignee, Structomatic, Inc. No. 3,530,790; v. 898; p. 369.
- Potrafke, Earle M., Wilmington, Del. Disclaimer filed Aug. 20, 1970, by the assignee, E. I. du Pont de Nemours and Company. No. 3,625,755; v. 902; p. 378.

- Reeder, Earl, Nutley, and Leo Henryk Sternbach, Upper Montclair, N.J. Disclaimer filed Feb. 15, 1972, by the assignee, Hoffman-La Roche Inc. No. 3,270,053; v. 900; p. 1226.
- Reiser, Sidney J., and Larry Reiser, Rego Park, N.Y. Disclaimer filed Feb. 9, 1972, by the assignee, Metropolitan Petroleum Petrochemicals Co., Inc. No. 3,441,042; v. 901; p. 4.
- Rigterink, Preston D., Holland, Mich. Disclaimer filed Feb. 17, 1972, by the assignee, U.S. Industries, Inc. No. 3,164,129; v. 900; p. 1226.
- Roberts, Thomas E., Jr., Saratoga, and Ronald J. Billett, Sunnyvale, Calif. Disclaimer filed Feb. 14, 1972, by the assignee, FMC Corporation. No. 3,452,789; v. 901; p. 4.
- Roberts, Thomas E., Jr., Saratoga, Calif. Disclaimer filed Feb. 14, 1972, by the assignee, FMC Corporation. No. 3,452,791; v. 901; p. 4.
- Robinson, Harold B., Chatham, N.J., and David J. Valley, Cleveland, Ohio. Dedication filed Jan. 25, 1972, by the assignee, Union Carbide Corporation. No. 3,264,536; v. 896; p. 13.
- Robinson, Leroy E., and Dan E. Perry, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,424,358; v. 897; p. 386.
- Robinson, Leroy E., and Dan E. Perry, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,554,419; v. 897; p. 387.
- Romualdi, James P., Pittsburgh, Pa. Disclaimer filed Jan. 27, 1972, by the assignee, The Battelle Development Corporation. No. 3,429,094; v. 896; p. 418.
- Rosen, Samuel R., Lorain, Alan B. Reighard, Bay Village, and Julius S. Drozek, Lorain, Ohio. Disclaimer filed Jan. 6, 1972, by the assignee, Nordson Corporation. No. 3,585,361; v. 900; p. 1227.
- Ross, David S., Lorain, Ohio. Disclaimer filed May 26, 1972, by the assignee, Hydro-Clear Corporation. No. 3,459,802; v. 901; p. 775.
- Ross, Edward, Headington, Oxford, and Edward Clive Allen, Cowley, Oxford, England. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,409,535; v. 905; p. 4.
- Rush, Robert L., Wellington, Kans. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,112,160; v. 897; p. 4.
- Sabatino, Anthony, Minneapolis, Minn. Disclaimer filed Apr. 5, 1972, by the assignee, Globe-Union Inc. No. 3,476,611; v. 905; p. 686.
- Sarkisian, Robert, Oak Park, Mich. Disclaimer filed June 1, 1972, by the inventor. No. 3,662,482; v. 905; p. 687.
- Schaefer, Frederic Charles, Munich-Solln, Germany, and Kenneth Robert Huffman, Stamford, Conn. Disclaimer filed Jan. 12, 1972, by the assignee, American Cyanamid Company. No. 3,225,077; v. 898; p. 369.
- Schellenbaum, Max, Riehen, Christian Leuthi, Muenchenstein, and Max Duennenberger, Frenkendorf, Basel-Land, Switzerland. Disclaimer filed Apr. 11, 1972, by the inventors, and the assignee, Ciba-Geigy AG, assenting. No. 3,278,534; v. 905; p. 686.
- Schilling, Joseph F., Chicago, and Thomas B. Moser, Glen Ellyn, Ill. Disclaimer filed Apr. 3, 1972, by the assignee, Weyerhaeuser Company. No. 3,578,238; v. 900; p. 1227.
- Scholes, Addison B., Muncie, Ind. Disclaimer filed Nov. 12, 1971, by the assignee, Ball Corporation. No. 3,386,855; v. 896; p. 13.
- Scholes, Addison B., Muncie, and John E. Pickard, Selma, Ind. Disclaimer filed Nov. 12, 1971, by the assignee, Ball Corporation. No. 3,420,693; v. 896; p. 13.
- Schurman, Peter T., Snyder, and Raymond C. Confer, Gasport, N.Y. Disclaimer filed June 14, 1972, by the assignee, W. R. Grace & Co. No. 3,441,071; v. 902; p. 378.
- Schurman, Peter T., Snyder, and Raymond C. Confer, Gasport, N.Y. Disclaimer filed June 14, 1972, by the assignee, W. R. Grace & Co. No. 3,452,125; v. 902; p. 804.
- Seeger, Ernst, Wolfhard Engel, Helmut Teufel, Hans Machleidt, Heinrich Ueberberg, and Hans Ibrig, Biberach an der Riss, Germany. Disclaimer filed Apr. 8, 1971, by the assignee, Boehringer Ingelheim G.m.b.H. No. 3,642,801; v. 902; p. 379.
- Sheehan, William C., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,416,772; v. 897; p. 386.
- Shepherd, Thomas H., and Francis E. Gould, Princeton, N.J. Disclaimer filed Aug. 11, 1970, by the assignee, National Patent Development Corporation. No. 3,574,826; v. 896; p. 828.
- Shepherd, Thomas H., Hopewell, and Francis E. Gould, Princeton, N.J. Disclaimer filed Jan. 13, 1972, by the assignee, National Patent Development Corporation. No. 3,660,561; v. 901; p. 1512.
- Shepherd, Thomas H., Hopewell, and Francis E. Gould, Princeton, N.J. Disclaimer filed Sept. 1, 1972, by the assignee, National Patent Development Corporation. No. 3,670,073; v. 903; p. 2.
- Shiber, Samuel, Chicago, Ill. Dedication filed Jan. 21, 1972, by the assignee, Borg-Warner Corporation. No. 3,561,215; v. 897; p. 386.
- Simons, Edward W., San Francisco, Calif. Disclaimer filed Nov. 24, 1971, by the assignee, Dualjet Corporation. No. 2,862,369; v. 896; p. 13.
- Sizer, Phillips S., Dallas, and Harry E. Schwegman, Richardson, Tex. Disclaimer and dedication filed Feb. 18, 1972, by the assignee, Otis Engineering Corporation. No. 3,608,631; v. 905; p. 686.
- Skinner, Bradley, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,416,714; v. 897; p. 4.
- Skinner, Bradley, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,490,663; v. 897; p. 387.
- Southworth, Hamilton, Jr., New York, N.Y. Dedication filed July 7, 1972, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,568,626; v. 902; p. 804.
- Speck, Stanley Brooke, Wilmington, Del. Disclaimer filed Dec. 9, 1971, by the assignee, E. I. du Pont de Nemours and Company. No. 3,485,814; v. 896; p. 14.
- Spivy, Paul L., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,401,517; v. 897; p. 4.
- Staffer, Christian H., Newtown, Pa. Disclaimer filed Feb. 7, 1972, by the assignee, Cincinnati Milacron Chemicals, Inc. No. 3,630,962; v. 900; p. 814.
- Stenner, Irving H., Brockport, N.Y. Dedication filed Feb. 4, 1972, by the assignee, Bernzomatic Corporation. No. 3,590,860; v. 900; p. 814.
- Stern, Max H., and Gregory J. Lestina, Rochester, N.Y. Disclaimer filed Nov. 9, 1972, by the assignee, Eastman Kodak Company. No. 3,574,627; v. 905; p. 686.
- Stewart, Dan F., Rob C. Blair, Max E. Greene, and Lloyd R. Alexander, Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,579,618; v. 897; p. 387.
- Stewart, Donald D., Plainfield, N.J. Disclaimer filed Oct. 21, 1971, by the assignee, Union Carbide Corp. No. 3,600,216; v. 894; p. 67.
- Storm, James C., Corpus Christi, Tex. Disclaimer filed Dec. 10, 1971, by the inventor. No. 3,451,493; v. 896; p. 13.
- Sturrock, Francis C., Skokie, Ill. Dedication filed Apr. 14, 1972, by the assignee, Bell & Howell Company. No. 3,445,155; v. 900; p. 1226.
- Taylor, Bert S., New York, N.Y., and Martin R. Lutz, Arlesheim, Basel-Land, Switzerland. Dedication filed Jan. 14, 1972, by the assignee, FMC Corporation. No. 3,325,563; v. 900; p. 814.
- Thompson, Joseph, East Amwell Township, Hunterdon County, N.J. Disclaimer filed Feb. 4, 1972, by the assignee, Illinois Water Treatment Co. No. 3,782,169; v. 896; p. 418.
- Thompson, Wirt L., Jr., Fairfield, Conn. Disclaimer and dedication filed June 2, 1972, by the inventor. No. 2,918,160; v. 901; p. 775.
- Tracy, Herbert E., Alhambra, Calif. Disclaimer filed Mar. 27, 1972, by the assignee, Borg-Warner Corporation. No. 3,612,548; v. 900; p. 1227.
- Van Doorn, Donald W., and William C. Pease III, Columbus, and Jack L. Colquett, Hamilton, Ga., Jack H. Tinkler, Phenix City, Ala., and Ted E. Huguley, Columbus, Ga. Disclaimer filed Dec. 13, 1971, by the assignee, Lummus Cotton Gin Company. No. 3,521,550; v. 900; p. 411.
- Vandersyde, Francis E., Gilroy, Thomas E. Roberts, Jr., Saratoga, and Arthur L. McGee, San Jose, Calif. Disclaimer filed Feb. 14, 1972, by the assignee, FMC Corporation. No. 3,452,790; v. 899; p. 1234.
- Van Hekken, Frans, East Lampeter Township, Lancaster County, Pa. Disclaimer filed Feb. 2, 1972, by the assignee, Radio Corporation of America. No. 3,294,999; v. 904; p. 136.
- Walter, Harold Lee, and Jean Arthur Malthaner, San Diego, Calif. Disclaimer and dedication filed Nov. 1, 1971, by the assignee, General Dynamics Corporation. No. 3,363,862; v. 896; p. 14.
- Webber, J. Alan, Indianapolis, Ind. Disclaimer filed Mar. 13, 1972, by the inventor, the assignee, Eli Lilly and Company, assenting. No. 3,674,784; v. 903; p. 2.
- Weir, Stanley M., Palo Alto, Calif. Disclaimer filed June 21, 1971, by the assignee, FMC Corporation. No. 3,616,088; v. 902; p. 378.
- Wiedeman, Karl, Cherry Hill, N.J. Disclaimer filed Apr. 19, 1972, by the assignee, Melitta, Inc. Design No. 222,734; v. 905; p. 4.
- Wiedeman, Karl, Cherry Hill, N.J. Disclaimer filed Apr. 19, 1972, by the assignee, Melitta, Inc. Design No. 222,735; v. 905; p. 686.
- Wilkins, Paul E., Bartlesville, Okla. Disclaimer and dedication filed Dec. 28, 1971, by the assignee, Phillips Petroleum Company. No. 3,397,825; v. 897; p. 4.
- Wilkinson, Samuel, London, England. Disclaimer filed Nov. 19, 1971, by the assignee, Burroughs Wellcome Co. No. 3,223,587; v. 896; p. 13.
- Willard, Joe R., and John F. Henahan, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,841,520; v. 896; p. 13.
- Willard, Joe R., and John F. Henahan, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,877,152; v. 895; p. 780.
- Willard, Joe R., and John F. Henahan, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,916,415; v. 895; p. 895.
- Willard, Joe R., and John F. Henahan, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,928,862; v. 901; p. 4.
- Willard, Joe R., and John F. Henahan, Middleport, N.Y. Dedication filed Nov. 4, 1971, by the assignee, FMC Corporation. No. 2,941,920; v. 895; p. 780.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 2,899,781; v. 896; p. 418.

- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,950,239; v. 896; p. 418.
- Williams, Lynn A., Winnetka, and William F. Gradolph, Jr., Elmhurst, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 2,961,394; v. 896; p. 418.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,002,907; v. 896; p. 418.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,017,340; v. 896; p. 418.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,019,178; v. 896; p. 418.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,043,766; v. 896; p. 418.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,041,265; v. 896; p. 418.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,120,482; v. 896; p. 828.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,123,545; v. 896; p. 828.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,172,831; v. 896; p. 828.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,196,093; v. 896; p. 828.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,214,361; v. 897; p. 764.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,218,248; v. 896; p. 828.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,235,475; v. 896; p. 828.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,252,882; v. 896; p. 1206.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,254,013; v. 896; p. 1206.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,255,097; v. 897; p. 764.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,256,165; v. 896; p. 1206.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,257,300; v. 896; p. 1206.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,275,543; v. 896; p. 1206.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,276,987; v. 896; p. 1206.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,276,988; v. 896; p. 1206.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,278,411; v. 897; p. 764.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,287,245; v. 896; p. 1206.
- Williams, Lynn A., Winnetka, and Leonard Malkowski, La Grange, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,287,246; v. 897; p. 4.
- Williams, Lynn A., Winnetka, and Norbert A. Bruns, Palatine, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,305,470; v. 897; p. 5.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,326,785; v. 897; p. 764.
- Williams, Lynn A., Winnetka, and James E. Davis, Elmwood Park, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,328,279; v. 897; p. 5.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,352,774; v. 897; p. 5.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,421,997; v. 897; p. 5.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,440,161; v. 897; p. 1134.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,441,498; v. 897; p. 1134.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,444,069; v. 897; p. 1134.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,444,070; v. 897; p. 1134.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,449,226; v. 897; p. 1134.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,466,235; v. 897; p. 1134.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,472,754; v. 897; p. 1134.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,498,904; v. 897; p. 764.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,511,767; v. 897; p. 1134.
- Williams, Lynn A., Winnetka, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,536,599; v. 905; p. 4.
- Williams, Lynn A., Winnetka, Leonard R. Malkowski, La Grange, and Sigmund H. Bielak, Downers Grove, Ill. Dedication filed Dec. 23, 1971, by the assignee, Anocut Engineering Company. No. 3,573,188; v. 897; p. 1134.
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